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**SEMINOLE COUNTY GOVERNMENT  
AGENDA MEMORANDUM**

**SUBJECT:** Professional Services: PS-4202-09/DRR - Dean Road Widening Project Pre-Design and Final Design

**DEPARTMENT:** Administrative Services

**DIVISION:** Purchasing and Contracts

**AUTHORIZED BY:** Frank Raymond

**CONTACT:** Diane Reed

**EXT:** 7120

**MOTION/RECOMMENDATION:**

Approve ranking list and authorize staff to negotiate rates for PS-4202-09/DRR - Dean Road Widening Pre-Design and Final Design services with Bowyer-Singleton, Orlando, Florida (Estimated Usage Amount of \$800,000.00 over the term of the Agreement).

County-wide

Ray Hooper

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**BACKGROUND:**

PS-4202-09/DRR will provide preliminary engineering and final design services including utility relocation for the Dean Road widening project from SR 426 to the Orange County line.

The project was publicly advertised and the County received nineteen (19) submittals, of which one was found to be non-responsive (the remaining are listed alphabetically):

- Avcon, Inc.
- Bowyer-Singleton & Assoc Inc.
- Burgess & Niple
- CPH Engineers, Inc.
- C3TS
- Dyer, Riddle, Mills & Precourt, Inc.
- Ghyabi & Associates, Inc.
- Infrastructure Engineers, Inc.
- Inwood Consulting Engineers, Inc.
- Kelly, Collins & Gentry, Inc.
- Lochrane Engineering, Inc.
- Metric Engineering, Inc.
- Pegasus Engineering, LLC
- Reynolds, Smith and Hills Inc.
- The Balmoral Group
- Vanasse Hangen Brustlin, Inc.

- WBQ Design & Engineering, Inc.
- Wilbur Smith Associates, Inc.

The Evaluation Committee, which consisted of Brett Blackadar, Principal Engineer; Jerry McCollum, County Engineer; and Shad Smith, Principal Engineer; all from the Public Works Engineering Division, and Patti Leviti, Project Manager I from Environmental Services PEI Division, evaluated the submittals and agreed to shortlist four (4) firms. The Evaluation Committee interviewed these firms giving consideration to the following criteria:

- Project Approach/Understanding
- Innovative/Cost Saving Ideas
- Project Team Qualifications and Experience

The attached backup documentation includes the Bid Tabulation, the Presentation Summary & Scoring Sheets, the Evaluation Summary Sheet and the Project Scope. The Evaluation Committee recommends that the Board approve the ranking below and authorize staff to negotiate with the top ranked firm in accordance with F.S. 287.055, the Consultants Competitive Negotiation Act (CCNA):

1. Bowyer-Singleton & Assoc Inc.
2. Inwood Consulting Engineers Inc.
3. Reynolds, Smith and Hills Inc.
4. CPH Engineers Inc.

Staff will return to present the final negotiated rates and the Award Agreement for approval and execution by the Board. Authorization for the performance of services by the Consultant under this Master Agreement shall be in the form of written Work Orders issued and executed by the County, and signed by the Consultant. The work and dollar amount for each Work Order shall be negotiated on an as-needed basis for this project-specific Master Agreement, and funded within approved amounts. Funds are identified in Major/State Roads Program (Account #077541.560680, CIP # 00198101).

**STAFF RECOMMENDATION:**

Staff recommends that the Board approve ranking list and authorize staff to negotiate rates for PS-4202-09/DRR - Dean Road Widening Pre-Design and Final Design services with Bowyer-Singleton, Orlando, Florida (Estimated Usage Amount of \$800,000.00 over the term of the Agreement).

**ATTACHMENTS:**

1. PS-4202-09 \_DRR - Backup Documentation

<b>Additionally Reviewed By:</b> <input checked="" type="checkbox"/> County Attorney Review ( Ann Colby )
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**B.C.C. - SEMINOLE COUNTY, FL  
PS TABULATION SHEET**

ALL SUBMITTALS ACCEPTED BY SEMINOLE COUNTY ARE SUBJECT TO THE COUNTY'S TERMS AND CONDITIONS AND ANY AND ALL ADDITIONAL TERMS AND CONDITIONS SUBMITTED BY THE PROPOSERS ARE REJECTED AND SHALL HAVE NO FORCE AND EFFECT. PS DOCUMENTS FROM THE PROPOSERS LISTED HEREIN ARE THE ONLY SUBMITTALS RECEIVED TIMELY AS OF THE ABOVE OPENING DATE AND TIME. ALL OTHER PS DOCUMENTS SUBMITTED IN RESPONSE TO THIS SOLICITATION, IF ANY, ARE HEREBY REJECTED AS LATE.

PS NUMBER: PS-4202-09/DRR

PS TITLE : Dean Road Widening Project Pre-Design and Final Design

DUE DATE: March 11, 2009 TIME: 2:00 P.M.

RESPONSE -1-	RESPONSE -2-	RESPONSE -3-	RESPONSE -4-
Avcon, Inc 5555 E. Michigan St, Ste 200 Orlando, FL 32822	Bowyer-Singleton & Assoc Inc 520 S Magnolia Ave Orlando, FL 32801	Burgess & Niple 1800 Pembroke Dr, Ste 265 Orlando, FL 32810	CPH Engineers, Inc 500 W Fulton St Sanford, FL 32771
Sandeep Singh, P.E. (407) 599-1122 – Phone (407) 599-1133 - Fax	Kevin E. Knudsen, P.E. (407) 843-5120 – Phone (407) 649-8664 – Fax	Scott D. Perfater, P.E. (407) 401-8527 – Phone (407) 660-4994 - Fax	David A. Gierach, P.E. (407) 322-6841 – Phone (407) 330-0639 – Fax
RESPONSE -5-	RESPONSE -6-	RESPONSE -7-	RESPONSE -8-
C3TS 11315 Corporate Blvd, Ste 105 Orlando, FL 32817	Dyer, Riddle, Mills & Precourt, Inc 941 Lake Baldwin Ln Orlando, FL 32814	Ghyabi & Associates, Inc 255 Primera Blvd, Ste 432 Lake Mary, FL 32746	Infrastructure Engineers, Inc 2121 Old Hickory Tree Rd Saint Cloud, FL 34772
Walfredo J. Pevida, P.E. (407) 823-8966 – Phone (407) 823-8826 – Fax	Mark D. Prochak, P.E. (407) 896-0594 – Phone (407) 896-4836 – Fax	Walter V. Kloss, P.E. (407) 444-0511 – Phone (407) 444-9944 - Fax	Frank Hickson (407) 957-1660 – Phone (407) 957-8744 – Fax
RESPONSE -9-	RESPONSE -10-	RESPONSE -11-	RESPONSE -12-
Inwood Consulting Engineers, Inc 3000 Dovera Dr, Ste 200 Oviedo, FL 32765	Kelly, Collins & Gentry, Inc 1700 N Orange Ave, Ste 400 Orlando, FL 32804	Lochrane Engineering, Inc 201 S. Bumby Ave Orlando, FL 32803	Metric Engineering, Inc. 615 Crescent Executive Ct, Ste 524 Lake Mary, FL 32746
Andrew D. DeWitt, P.E. (407) 971-8850 – Phone (407) 971-8955 - Fax	Steven M. Kreidt, P.E. (407) 898-7858 – Phone (407) 898-1488 - Fax	Thomas G. Lochrane, P.E. (407) 896-3317 – Phone (407) 896-9167 – Fax	C. Brian Fuller (407) 644-1898 Phone (407) 644-1921 Fax

RESPONSE -13-	RESPONSE -14-	RESPONSE -15-	RESPONSE -16-
Moffatt & Nichol 1025 Greenwood Blvd, Ste 371 Lake Mary, FL 32746 <b>Non-Responsive *</b> L. Schmidt, P.E. (407) 562-2030 – Phone (407) 562-2031 – Fax	Pegasus Engineering, LLC 301 West SR 434, Ste 309 Winter Springs, FL 32708  Fursan Munjed, P.E. (407) 992-9160 – Phone (407) 358-5155 – Fax	Reynolds, Smith and Hills Inc. 1000 Legion Pl., Ste. 800 Orlando, FL 32801  James R. Avitabile, P.E. (407) 893-5800 – Phone (407) 648-2128 – Fax	The Balmoral Group 341 N Maitland Ave, Ste 100 Maitland, FL 32751  Valerie Seidel (407) 629-2185 – Phone (407) 629-2183 – Fax
RESPONSE -17-	RESPONSE -18-	RESPONSE -19	RESPONSE -
Vanasse Hangen Brustlin, Inc. 225 E. Robinson St, Ste 300 Orlando, FL 32801  Paul W. Yeargain, P.E. (407) 839-4006– Phone (407) 839-4008 – Fax	WBQ Design & Engineering, Inc 201 N. Magnolia Ave, Ste 200 Orlando, FL 32801  Derek C. Burke (407) 839-4300 – Phone (407) 839-1612 – Fax	Wilbur Smith Associates, Inc. 3191 Maguire Blvd., Ste. 200 Orlando, FL 32803  Adrian B. Share, P.E. (407) 896-5851 – Phone (407) 896-9165 – Fax	<b>BLANK</b>

Tabulated by Diane Reed, CPPB– Posted March 12, 2009, 4:00 PM

Short-listing Evaluation Committee Meeting: April-6, 2009-at-9:00AM April 20, 2009 at 9:00 AM (updated March 23, 2009 at 3:30 PM)  
Wekiva Room, 520 W. Lake Mary Blvd, Sanford, Florida 32773.

Evaluation Criteria:  
 Approach to Project/Understanding (40%)  
 Similar Project Experience (20%)  
 Project Team Qualifications (20%)  
 Innovative Cost Saving Ideas (15%)  
 Location of the Firm (5%)

Short listed Firms: Bowyer-Singleton & Assoc Inc, CPH Engineers Inc, Inwood Consulting Engineers Inc, Reynolds, Smith & Hills Inc (Posted April 20, 2009 @ 11:00 am)

Presentations: May 19, 2009 @ 8:30 am, 520 W. Lake Mary Blvd, Reflections, Lake Jessup Room, Sanford, FL 32773.  
 Presentation Criteria: Approach to Project/Understanding (60%)  
 Innovative Cost Saving Ideas (20%)  
 Team Qualifications and Experience (20%)

Presentation Results: **1. Bowyer-Singleton & Assoc Inc 2. Inwood Consulting Engineers Inc 3. Reynolds, Smith and Hills Inc. 4. CPH Engineers Inc**

Board of County Commissioners Agenda Date - Request to Approve Ranking and to Negotiate: **June 23, 2009**  
 Board of County Commissioners Agenda Date – Award: Request to approve rates and award contract: **TBD**

\*Took exception to Required Submittals.

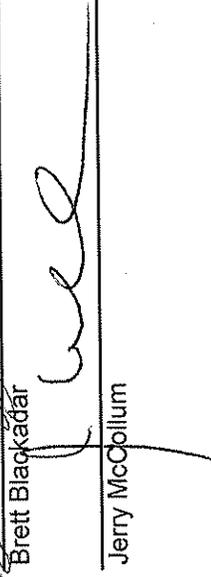
**EVALUATION RANKINGS - PRESENTATIONS  
 PS-4202-09/DRR - Dean Road Widening Project Pre-Design and Final Design**

	B. Blackadar	P. Leviti	J. McCollum	S. Smith	TOTAL POINTS	RANKING
BOWYER-SINGLETON & ASSOC INC	1	2	1	1	5	1
CPH ENGINEERS INC	4	4	3	4	15	4
INWOOD CONSULTING ENGINEERS INC	2	3	2	2	9	2
REYNOLDS, SMITH AND HILLS INC	3	1	4	3	11	3

The Evaluation Committee approves the following ranking list to be presented to the Board of County Commissioners:

1. Bowyer-Singleton & Assoc Inc
2. Inwood Consulting Engineers Inc
3. Reynolds, Smith and Hills Inc.
4. CPH Engineers Inc.

  
 Brett Blackadar

  
 Jerry McCollum

  
 Patti Leviti

  
 Shad Smith

**PRESENTATIONS**

**PS-4202-09/DRR-Dean Road Widening Project Pre-Design and Final Design**

SUBMITTAL COMPANY NAME: **Bowyer-Singleton & Associates Inc**  
 QUALIFICATION COMMITTEE MEMBER: Jerry McCollum

INSTRUCTIONS: Score each criterion from 1 to 100 based on the following general guidelines:  
 90 – 100 Outstanding, out-of-the-box, Innovative, Cost/Time Savings  
 80 – 89 Excellent, Very Good, Solid in all respects.  
 70 – 79 Good, No major weaknesses, Fully Acceptable as is  
 60 – 69 Marginal, Weak, Workable but needs clarifications  
 Below 60 Unacceptable, Needs major help to be acceptable

Describe strengths, weaknesses and deficiencies to support your assessment.

Criteria: Project Approach/Understanding (60%) *Typ. Est - 40 mpl Very Med. 15.5 to 22.0*

*Extensive data collection done, Very good on various typicals and utility interaction. Could plan layout. Talk 2 homes at south end Arcebs management layout (class 7). Drainage expand existing ponds 2 homes for pond. Maybe some exfiltration utilities may eliminate exfiltration. Covered utilities. Public involvement Very good covered all major areas. Typical very good*

82  
Score 49.2  
(0-100)

Criteria: Innovative/Cost Saving Ideas (20%)

*Savings on most arms  
 Use ponds that exist  
 wall const.  
 Utility - Several others  
 Very good*

80  
Score 16.0  
(0-100)

Criteria: Project Team Qualifications and Experience (20%)

*Several major County projects.  
 Strong experience team*

78

*Q1 Sight Dist. mitigate? (Oak Hollow)  
 Q2 utility location in typicals*

Score 15.6  
(0-100)

TOTAL SCORE (0-100 Points) 80.8  
 RANKING 1

**PRESENTATIONS**

**PS-4202-09/DRR-Dean Road Widening Project Pre-Design and Final Design**

SUBMITTAL COMPANY NAME: **CPH Engineers Inc**

QUALIFICATION COMMITTEE MEMBER: Jerry McCollum

- INSTRUCTIONS: Score each criterion from 1 to 100 based on the following general guidelines:
- 90 – 100 Outstanding, out-of-the-box, Innovative, Cost/Time Savings
  - 80 – 89 Excellent, Very Good, Solid in all respects.
  - 70 – 79 Good, No major weaknesses, Fully Acceptable as is
  - 60 – 69 Marginal, Weak, Workable but needs clarifications
  - Below 60 Unacceptable, Needs major help to be acceptable

**Describe strengths, weaknesses and deficiencies to support your assessment.**

**Criteria: Project Approach/Understanding (60%)**

Covered traffic / Public Inv. Very good data collection  
 Sid. walls. Have contacted all utility comp. met  
 with all HOA, School issues. 4 typicals (on paved  
 medians). Split profiles. Sight dist. issues. Alt. 0  
 (93-100) rec. Detailed on drainage, Good on utilities.  
 handcopy. Design IS nearly 5 80

Very detailed on alignments & typicals Score 48.0  
(0-100)

**Criteria: Innovative/Cost Saving Ideas (20%)**

Very typical 80  
 40 mph  
 Early ROW coordination  
 HOA early  
 Several others

Score 16.0  
(0-100)

**Criteria: Project Team Qualifications and Experience (20%)**

Good team and several 78  
 County projects.

Q, split + distance Score 15.6  
(0-100)  
 Max. border width

TOTAL SCORE (0-100 Points) 79.6

RANKING 3

**PRESENTATIONS**

**PS-4202-09/DRR-Dean Road Widening Project Pre-Design and Final Design**

SUBMITTAL COMPANY NAME: Inwood Consulting Engineers Inc

QUALIFICATION COMMITTEE MEMBER: Jerry McCollum

INSTRUCTIONS: Score each criterion from 1 to 100 based on the following general guidelines:

- 90 – 100 Outstanding, out-of-the-box, Innovative, Cost/Time Savings
- 80 – 89 Excellent, Very Good, Solid in all respects.
- 70 – 79 Good, No major weaknesses, Fully Acceptable as is
- 60 – 69 Marginal, Weak, Workable but needs clarifications
- Below 60 Unacceptable, Needs major help to be acceptable

**Describe strengths, weaknesses and deficiencies to support your assessment.**

**Criteria: Project Approach/Understanding (60%)**

Control traffic and crash rates, Design speed  
 adv. for 40mph. Various typical  
 Neck to PZ' at South, use right of way  
 dist. issues. At Access Church. Linkage.  
 Cost review (MOT). And detail on drainage  
 utility (Excellent on sewer system versus utility)  
 Env. issues. Public Inv. very good

81

Score 48.6  
(0-100)

**Criteria: Innovative/Cost Saving Ideas (20%)**

Partner with Orange Co  
 Avoid low Aeq.  
 Save pavement  
 Subd. walls  
 Avoid utility

80

Score 16.0  
(0-100)

**Criteria: Project Team Qualifications and Experience (20%)**

Extensive exp.  
 Strong team

79

Q1 Design speed  
 Q2 Overhead utility

Score 15.8  
(0-100)

TOTAL SCORE (0-100 Points)

80.4

RANKING

2

**PRESENTATIONS**

**PS-4202-09/DRR-Dean Road Widening Project Pre-Design and Final Design**

SUBMITTAL COMPANY NAME: Reynolds Smith and Hills Inc  
 QUALIFICATION COMMITTEE MEMBER: Jerry McCollum

INSTRUCTIONS: Score each criterion from 1 to 100 based on the following general guidelines:  
 90 – 100 Outstanding, out-of-the-box, Innovative, Cost/Time Savings  
 80 – 89 Excellent, Very Good, Solid in all respects.  
 70 – 79 Good, No major weaknesses, Fully Acceptable as is  
 60 – 69 Marginal, Weak, Workable but needs clarifications  
 Below 60 Unacceptable, Needs major help to be acceptable

**Describe strengths, weaknesses and deficiencies to support your assessment.**

**Criteria: Project Approach/Understanding (60%)**

Covered traffic, Access Management. Very  
 median 16' to 22' - Variable PGL,  
 Recommend 45 mph - Good solution on  
 right dist. issues. Covered OH utilities  
 Very detailed on utility conflicts, Good  
 diagram on util/SW conflicts. Good drainage  
 (little general). MOT - Public Inv. 79

Score 47.4  
(0-100)

**Criteria: Innovative/Cost Saving Ideas (20%)**

11 lanes  
 PGL vary 80  
 walls  
 Jt. Road,  
 Local Public Inv. Plan

Score 16.0  
(0-100)

**Criteria: Project Team Qualifications and Experience (20%)**

Good exp. team  
 Numerous projects including Co. project, 78

Q1 - Utility locations  
 Q2 - PGL - Existing grade  
 tie in

Score 15.6  
(0-100)

TOTAL SCORE (0-100 Points) 79.0

RANKING 4

**PRESENTATIONS**

**PS-4202-09/DRR-Dean Road Widening Project Pre-Design and Final Design**

SUBMITTAL COMPANY NAME: **Bowyer-Singleton & Associates Inc**

QUALIFICATION COMMITTEE MEMBER: Patti Leviti

INSTRUCTIONS: Score each criterion from 1 to 100 based on the following general guidelines:

- 90 – 100 Outstanding, out-of-the-box, Innovative, Cost/Time Savings
- 80 – 89 Excellent, Very Good, Solid in all respects.
- 70 – 79 Good, No major weaknesses, Fully Acceptable as is
- 60 – 69 Marginal, Weak, Workable but needs clarifications
- Below 60 Unacceptable, Needs major help to be acceptable

**Describe strengths, weaknesses and deficiencies to support your assessment.**

**Criteria: Project Approach/Understanding (60%)**

*Excellent in approach & Understanding  
all areas covered i.e. utilities, drainage, site distances  
two proposals four & five lane - increase in R/W  
suggested.  
recommended 4.5 mi Lane Travel*

Score 95  
(0-100)

**Criteria: Innovative/Cost Saving Ideas (20%)**

- 1. Split Profile to reduce removal of Walls*
- 2. joint access to both churches with no loss of parking*
- 3. Propade design and sure 2 Mast Arms*
- 4. Review impact to Utilities -*

Score 90  
(0-100)

**Criteria: Project Team Qualifications and Experience (20%)**

*Team qualified / Malware Utility design - staffing?*

Score 85  
(0-100)

TOTAL SCORE (0-100 Points)

92

RANKING

2

**PRESENTATIONS**

**PS-4202-09/DRR-Dean Road Widening Project Pre-Design and Final Design**

SUBMITTAL COMPANY NAME: CPH Engineers Inc  
QUALIFICATION COMMITTEE MEMBER: Patti Leviti

INSTRUCTIONS: Score each criterion from 1 to 100 based on the following general guidelines:  
90 – 100 Outstanding, out-of-the-box, Innovative, Cost/Time Savings  
80 – 89 Excellent, Very Good, Solid in all respects.  
70 – 79 Good, No major weaknesses, Fully Acceptable as is  
60 – 69 Marginal, Weak, Workable but needs clarifications  
Below 60 Unacceptable, Needs major help to be acceptable

Describe strengths, weaknesses and deficiencies to support your assessment.

**Criteria: Project Approach/Understanding (60%)**

*Four alternatives proposed #1 was rejected by CPH  
additional RTW would not be purchased in this proposal.  
Utilities seem to not dismissed except to acknowledge  
they were there. In question, only shifting of road  
would allow a larger utility corridor. Will be reviewed  
in preliminary design*

Score 80  
(0-100)

**Criteria: Innovative/Cost Saving Ideas (20%)**

- 1. Shared access for church - meet with church*
- 2. 5 lane delimit bus options / 4 lane proposals.*
- 3. look at placing pipe within 48" abandon sewer  
man to increase utility corridor. (probably not  
option)*

Score 85  
(0-100)

**Criteria: Project Team Qualifications and Experience (20%)**

- 1. GMB - Traffic Eng / Change in Team*
- 2. listed extensive 50+ experience*
- 3. Outreach with HOA Associations*

Score 85  
(0-100)

TOTAL SCORE (0-100 Points)

82

RANKING

4

**PRESENTATIONS**

**PS-4202-09/DRR-Dean Road Widening Project Pre-Design and Final Design**

SUBMITTAL COMPANY NAME: **Inwood Consulting Engineers Inc**

QUALIFICATION COMMITTEE MEMBER: Patti Leviti

INSTRUCTIONS: Score each criterion from 1 to 100 based on the following general guidelines:

90 – 100 Outstanding, out-of-the-box, Innovative, Cost/Time Savings

80 – 89 Excellent, Very Good, Solid in all respects.

70 – 79 Good, No major weaknesses, Fully Acceptable as is

60 – 69 Marginal, Weak, Workable but needs clarifications

Below 60 Unacceptable, Needs major help to be acceptable

**Describe strengths, weaknesses and deficiencies to support your assessment.**

**Criteria: Project Approach/Understanding (60%)**

1. Suggested design speed. Post 40 design 45mph recommended 40 mph  
40 MPD don't address high speeds, (Center Turn Lane)
2. Pond Optimum identified
3. Utilities W/S located - Shows impacts to WM & FM Semo.
4. Approach at North (minor reconstruction)

Score 93  
(0-100)

**Criteria: Innovative/Cost Saving Ideas (20%)**

1. Cost of additional R/W on the 83' R/W would be saved  
in one of the proposals
2. Joint driveway for Church (suggested by church)
3. Minimize off Side cost savings for Ponds.
4. Coordination with Orange County (contact)

Score 90  
(0-100)

**Criteria: Project Team Qualifications and Experience (20%)**

Consultant on 7 identical SC Projects. well qualified  
Staff availability

Score 85  
(0-100)

TOTAL SCORE (0-100 Points)

90.8

RANKING

3

**PRESENTATIONS**

**PS-4202-09/DRR-Dean Road Widening Project Pre-Design and Final Design**

SUBMITTAL COMPANY NAME: Reynolds Smith and Hills Inc  
QUALIFICATION COMMITTEE MEMBER: Patti Leviti

INSTRUCTIONS: Score each criterion from 1 to 100 based on the following general guidelines:  
90 – 100 Outstanding, out-of-the-box, Innovative, Cost/Time Savings  
80 – 89 Excellent, Very Good, Solid in all respects.  
70 – 79 Good, No major weaknesses, Fully Acceptable as is  
60 – 69 Marginal, Weak, Workable but needs clarifications  
Below 60 Unacceptable, Needs major help to be acceptable

**Describe strengths, weaknesses and deficiencies to support your assessment.**

**Criteria: Project Approach/Understanding (60%)**

- Post of 40 mph*
1. Recommend 45 mph design speed. Identified retrofits as Power Pole etc.
  2. Research on utility complete both SC's utility
  3. Drainage Trench lines in Median to avoid utility conflicts

Score 95  
(0-100)

**Criteria: Innovative/Cost Saving Ideas (20%)**

1. Use of variable median width saving P&W
2. Drainage Trench line in median to avoid utility conflicts
3. Grant access for churches
4. Grassy wall to maintain existing walls.

Score 93  
(0-100)

**Criteria: Project Team Qualifications and Experience (20%)**

*Worked (Utility design) RS+H has SC experience, worked EOR for Authority (good for partnering with SC.) Under Contract*

Score 86  
(0-100)

TOTAL SCORE (0-100 Points)

92.8

RANKING

1

PRESENTATIONS

PS-4202-09/DRR-Dean Road Widening Project Pre-Design and Final Design

SUBMITTAL COMPANY NAME: **Bowyer-Singleton & Associates Inc**

QUALIFICATION COMMITTEE MEMBER: Brett Blackadar

INSTRUCTIONS: Score each criterion from 1 to 100 based on the following general guidelines:

- 90 – 100 Outstanding, out-of-the-box, Innovative, Cost/Time Savings
- 80 – 89 Excellent, Very Good, Solid in all respects.
- 70 – 79 Good, No major weaknesses, Fully Acceptable as is
- 60 – 69 Marginal, Weak, Workable but needs clarifications
- Below 60 Unacceptable, Needs major help to be acceptable

Describe strengths, weaknesses and deficiencies to support your assessment.

**Criteria: Project Approach/Understanding (60%)** *Good traffic discussion.*

*Very thorough list of research done. Did not mention SUE to verify X-sections. Very good design criteria analysis. Excellent X-sections w/ utilities shown. Very good sight distance issue. Very good flow analysis for church + permitted south side. Very good utility coord. discussion. 18 month total schedule seems aggressive. Orange County is denying Dean Rd stretch in next year's work program. Very good answers to utility questions*

Score 94 56.4  
(0-100)

**Criteria: Innovative/Cost Saving Ideas (20%)**

*Use split profile to mitigate walls. Joint-use pond arrangements. Accumulate utilities in X-section - 105' ROW. ROW/assess plan proposed for church hold off on SR 438 turn lane. Save utility cabinets w/ DS's. Use pay-as-you-go tanks as total tanks to expand ponds. Others listed too. Use 40 mph design speed so we can carry median width from 15.5 to 22'.*

Score 90 18  
(0-100)

**Criteria: Project Team Qualifications and Experience (20%)**

*PM is doing well on other County project. Drainage Sub has performed very well on previous County projects. Have in-house utility design group. Good Survey & ROW mapping group. Traffic + ROW Subs are very good.*

Score 90 18  
(0-100)

TOTAL SCORE (0-100 Points) 92.4

RANKING 1

**PRESENTATIONS**

**PS-4202-09/DRR-Dean Road Widening Project Pre-Design and Final Design**

SUBMITTAL COMPANY NAME: **CPH Engineers Inc**  
 QUALIFICATION COMMITTEE MEMBER: Brett Blackadar

INSTRUCTIONS: Score each criterion from 1 to 100 based on the following general guidelines:  
 90 – 100 Outstanding, out-of-the-box, Innovative, Cost/Time Savings  
 80 – 89 Excellent, Very Good, Solid in all respects.  
 70 – 79 Good, No major weaknesses, Fully Acceptable as is  
 60 – 69 Marginal, Weak, Workable but needs clarifications  
 Below 60 Unacceptable, Needs major help to be acceptable

**Describe strengths, weaknesses and deficiencies to support your assessment.**

**Criteria: Project Approach/Understanding (60%)**

*Have contacted all of the utilities. Good ROW analysis. Good public involvement survey. Brought 4 different boards members 4 different sections. Very good design. Design solved analysis. Through final section analysis. Did not discuss walk conditions in detail. Propose a revision 15 min schedule. Limited public involvement discussion. Did not discuss conflicts w/ utility boxes on south side. No traffic discussion. Good answers to questions.*

Score 89 53.4  
(0-100)

**Criteria: Innovative/Cost Saving Ideas (20%)**

*Shared church access drive. Use FDOT incentive program. Use narrower median and 11-foot lanes - helps accommodate utilities. Use 40 mph + narrower lane. Use independent profiles. Multiple use trail instead of bike lane. Shared parking listed - they went thru too fast. Propose to tal take of hours to expand pond. Use 48" old SMOGRA line for new utilities.*

Score 88 17.6  
(0-100)

**Criteria: Project Team Qualifications and Experience (20%)**

*GMB is new traffic sub. Global Sig public info sub. Team seems to have limited experience w/ major roadwork, widening projects. PM is very experienced. Project staff did not attend presentation + their experience seems to be more related to development projects. No detailed breakout of utility staff.*

Score 85 17  
(0-100)

TOTAL SCORE (0-100 Points)

88

RANKING

4

PRESENTATIONS

PS-4202-09/DRR-Dean Road Widening Project Pre-Design and Final Design

SUBMITTAL COMPANY NAME: Inwood Consulting Engineers Inc  
QUALIFICATION COMMITTEE MEMBER: Brett Blackadar

INSTRUCTIONS: Score each criterion from 1 to 100 based on the following general guidelines:  
90 – 100 Outstanding, out-of-the-box, Innovative, Cost/Time Savings  
80 – 89 Excellent, Very Good, Solid in all respects.  
70 – 79 Good, No major weaknesses, Fully Acceptable as is  
60 – 69 Marginal, Weak, Workable but needs clarifications  
Below 60 Unacceptable, Needs major help to be acceptable

Describe strengths, weaknesses and deficiencies to support your assessment.

Criteria: Project Approach/Understanding (60%)

*Very detailed traffic analysis + crash analysis. Very good design analysis - 40 vs 45 mph + PPM vs. green book. Good typical section analysis. Show 5-lane 83' section and sight distance discussion. Good access mgmt / U-turn discussion. Did TLP analysis. Excellent utility layout sheet w/ details of the sewer and SVEWIA lines + town lines. Very good public involvement comments. Propose aggressive 6 month PE schedule.*

Score 92 55.2  
(0-100)

Criteria: Innovative/Cost Saving Ideas (20%)

*5-lane 83' typical section for south end. Joint driveway for both channels. Ponds using total takes of hangers on south side. Detailed utility layout shown. Use Inwood Orange County RCD's study - do for intersection only. Split curb grade for utility right blank base to avoid impacts to walls. Other ideas listed.*

Score 91 18.2  
(0-100)

Criteria: Project Team Qualifications and Experience (20%)

*Very qualified team + subs. They have a lot of similar Seminole County projects. Arbonst on team. Located only 4 miles from project. Have had some issues on recent projects with the County.*

Score 89 17.8  
(0-100)

TOTAL SCORE (0-100 Points)

91.2

RANKING

2

**PRESENTATIONS**

**PS-4202-09/DRR-Dean Road Widening Project Pre-Design and Final Design**

SUBMITTAL COMPANY NAME: Reynolds Smith and Hills Inc  
 QUALIFICATION COMMITTEE MEMBER: Brett Blackadar

INSTRUCTIONS: Score each criterion from 1 to 100 based on the following general guidelines:  
 90 – 100 Outstanding, out-of-the-box, Innovative, Cost/Time Savings  
 80 – 89 Excellent, Very Good, Solid in all respects.  
 70 – 79 Good, No major weaknesses, Fully Acceptable as is  
 60 – 69 Marginal, Weak, Workable but needs clarifications  
 Below 60 Unacceptable, Needs major help to be acceptable

**Describe strengths, weaknesses and deficiencies to support your assessment.**

**Criteria: Project Approach/Understanding (60%)**

*Good traffic discussion.*  
*Very good turn section analysis. Very good wall discussion.*  
*40mph design speed w/40 mph posted. Good discussion w/for*  
*Kankakee @ Prairie County. Very good V-Trip analysis. Good*  
*sight distance discussion. Excellent utility discussion*  
*and analysis. Very good stormwater utility & location. Good*  
*public involvement discussion. No detailed ROW impact analysis*  
*Limited discussion of pond sites - both answered in Q+A - but*  
*doesn't seem like there is enough pond volume.*

Score 93 55.8  
(0-100)

**Criteria: Innovative/Cost Saving Ideas (20%)**

*Proposed retaining walls to limit wall impacts. Set back profiles*  
*to minimize wall impacts. Saw boxes on SE side of*  
*project. 11' concrete 4' bike lanes. Many listed ideas are general.*  
*Offset centerline to preserve utilities. Median storm*  
*Expand existing ponds.*

Score 82 16.4  
(0-100)

**Criteria: Project Team Qualifications and Experience (20%)**

*Team and subs are qualified. PMA has experience on*  
*Shenandoah City projects. Would put on team to do utility*  
*relocation.*

Score 90 18  
(0-100)

TOTAL SCORE (0-100 Points)

90.2

RANKING

3

**PRESENTATIONS**

**PS-4202-09/DRR-Dean Road Widening Project Pre-Design and Final Design**

SUBMITTAL COMPANY NAME: **Bowyer-Singleton & Associates Inc**

QUALIFICATION COMMITTEE MEMBER: Shad Smith

INSTRUCTIONS: Score each criterion from 1 to 100 based on the following general guidelines:

- 90 – 100 Outstanding, out-of-the-box, Innovative, Cost/Time Savings
- 80 – 89 Excellent, Very Good, Solid in all respects.
- 70 – 79 Good, No major weaknesses, Fully Acceptable as is
- 60 – 69 Marginal, Weak, Workable but needs clarifications
- Below 60 Unacceptable, Needs major help to be acceptable

**Describe strengths, weaknesses and deficiencies to support your assessment.**

**Criteria: Project Approach/Understanding (60%)**

Excel Typical Alternatives, Split profile, Site Distance issue  
Showed cure Plan for churches with median spacing -++  
Excellent observation of Pave's walls, utility underground & About esp @ McCulloch  
covered access mgmt, Covered utilities very well. 10 Mo. Schedule. Covered  
QA/Qc plan. DC add'l study back into CIP. Recommended 40mph w/ strip med.  
Discussed some solns for split Dist issue. Overall excellent approach

Score 95% 57  
(0-100)

**Criteria: Innovative/Cost Saving Ideas (20%)** *Excellent list*

Split Profile Grade, Church access Restoration, Creative Typical sections  
Solve Signal Pole @ McCulloch, Offset CL to solve utilities  
No detailed costs listed.

Score 85% 17  
(0-100)

**Criteria: Project Team Qualifications and Experience (20%)**

Excellent team experience within Seminole CO. Vv excellent  
project manager very responsive. Excellent sub consultants  
including Ed Bartfield. Done good job with county on  
recent projects.

Score 95% 19  
(0-100)

TOTAL SCORE (0-100 Points)

93.0

RANKING

1

**PRESENTATIONS**

**PS-4202-09/DRR-Dean Road Widening Project Pre-Design and Final Design**

SUBMITTAL COMPANY NAME: CPH Engineers Inc  
QUALIFICATION COMMITTEE MEMBER: Shad Smith

INSTRUCTIONS: Score each criterion from 1 to 100 based on the following general guidelines:  
90 – 100 Outstanding, out-of-the-box, Innovative, Cost/Time Savings  
80 – 89 Excellent, Very Good, Solid in all respects.  
70 – 79 Good, No major weaknesses, Fully Acceptable as is  
60 – 69 Marginal, Weak, Workable but needs clarifications  
Below 60 Unacceptable, Needs major help to be acceptable

Describe strengths, weaknesses and deficiencies to support your assessment.

**Criteria: Project Approach/Understanding (60%)**

*5 typicals called out from letter) removed stone b/c of public concern,  
Good observations: Road width, split profile, sight distances  
Excellent analysis of typical sections. Dispute 16.5' med. II'  
Eron - ofw. Other improved discuss  
At times Powerpoint hard to follow b/c so much text. Schedule is short  
Checked utility detail especially. Profiles and cross sections not shown.*

Score 75% - 45  
(0-100)

**Criteria: Innovative/Cost Saving Ideas (20%)**

*Use incentive program from FDOT to save money on Acquisition,  
Use of 48" for a duct bank/utility chase. Excellent list of poles  
Save SW. 11' lane widths are pretty standard in county  
Utilize existing ponds. Early coord with ROW*

Score 90% 18  
(0-100)

**Criteria: Project Team Qualifications and Experience (20%)**

*Subconsultants is good. Global 5, EBTical, GMB, Madorse.  
Experience as site firm and lack of roadway understanding is concern.  
Questional Drainage staff - unfamiliar. Do not agree that a site project  
and roadway project are the same for permitting.*

Score 75% 15  
(0-100)

TOTAL SCORE (0-100 Points)

78

RANKING

4

**PRESENTATIONS**

**PS-4202-09/DRR-Dean Road Widening Project Pre-Design and Final Design**

SUBMITTAL COMPANY NAME: **Inwood Consulting Engineers Inc**  
QUALIFICATION COMMITTEE MEMBER: Shad Smith

INSTRUCTIONS: Score each criterion from 1 to 100 based on the following general guidelines:  
90 – 100 Outstanding, out-of-the-box, Innovative, Cost/Time Savings  
80 – 89 Excellent, Very Good, Solid in all respects.  
70 – 79 Good, No major weaknesses, Fully Acceptable as is  
60 – 69 Marginal, Weak, Workable but needs clarifications  
Below 60 Unacceptable, Needs major help to be acceptable

**Describe strengths, weaknesses and deficiencies to support your assessment.**

**Criteria: Project Approach/Understanding (60%)**

*Excellent easy to follow Boards & M.  
Excellent traffic projections and analysis. Analyzed crashes. Analyzed criteria  
Excellent analysis of speed and how affects Typical. @ Sidewalks. Did understand  
how study works w/no build Alt. Excellent analysis of site distance  
Discussed vertical Alignment. Analyzed Access ramp & uturns with details & Photos.  
Also walls analysis. Drainage - of W. Presented complete design of storm in  
regard to utilities. Public involvement excellent approach. More letters and mail  
to whole neighborhoods. Discussed Evaluation of Matrix.* **Score 95%** 57  
(0-100)

**Criteria: Innovative/Cost Saving Ideas (20%)**

*Joint use DW for churches w/ median grading. Excellent list.  
Minimize of site ROW, D.C. Avoiding R/W Acquisition. Split of site  
strategic design. Creative Drainage/Design  
Showed Cost estimates & etc.  
Improve SR 426 intersection w/no change on curb lines.* **Score 96%** 19.2  
(0-100)

**Criteria: Project Team Qualifications and Experience (20%)**

*PM has been PM on 7 identical Projects. CoCo County ex-employee  
Added arborist for tree impacts. Excellent Drainage & ENV Staff.  
Utility designer not covered.* **Score 83%** 16.6  
(0-100)

TOTAL SCORE (0-100 Points)

92.8

RANKING

2

PRESENTATIONS

PS-4202-09/DRR-Dean Road Widening Project Pre-Design and Final Design

SUBMITTAL COMPANY NAME: Reynolds Smith and Hills Inc

QUALIFICATION COMMITTEE MEMBER: Shad Smith

INSTRUCTIONS: Score each criterion from 1 to 100 based on the following general guidelines:

- 90 - 100 Outstanding, out-of-the-box, Innovative, Cost/Time Savings
80 - 89 Excellent, Very Good, Solid in all respects.
70 - 79 Good, No major weaknesses, Fully Acceptable as is
60 - 69 Marginal, Weak, Workable but needs clarifications
Below 60 Unacceptable, Needs major help to be acceptable

Describe strengths, weaknesses and deficiencies to support your assessment.

Criteria: Project Approach/Understanding (60%)

Very good approach
Pointed out site distance issue. Access + showing utems - Good details
Recommended 45 mph Design speed. O.C coordination, 6' West offset
to avoid util boxes. Covered existing utilities extremely well. Excellent detail (xsec)
of drainage + utilities. Drainage - at W + Approach criteria. Fair to good approach
Concern of how ponds will work on South end. Did not look at Traffic at SR426.

Score 91% 54.6
(0-100)

Criteria: Innovative/Cost Saving Ideas (20%)

Good list of Innovations:
Use Gravity wall for Sidewalk due to differences. Variable medians
and PGL. Plan to keep utility boxes, detailed well.
offset Q to avoid util's. Median trunk line especially w/
super than their are median inlets.

Score 85% 17
(0-100)

Criteria: Project Team Qualifications and Experience (20%)

PM John Hornbeck experienced with Sem. Co. Woolpert excellent resource.
GMB + CEC good experience. Good local Sem. Co. experience.

Score 85% 17
(0-100)

TOTAL SCORE (0-100 Points) 88.6

RANKING 3

**EVALUATION RANKINGS**  
**PS-4202-09/DRR - Dean Road Widening Project Pre-Design and Final Design**

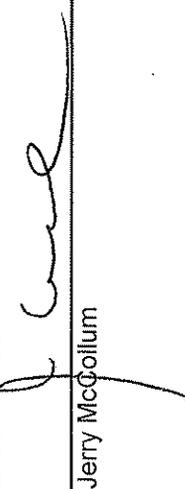
	B. Blackadar	P. Leviti	J. McCollum	S. Smith	TOTAL POINTS	RANKING
AVCON INC	18	16	12	18	64	18
BOWYER-SINGLETON & ASSOC INC	2	6	4	3	15	2
BURGESS & NIPLÉ	12	2	10	16	40	10
CPH ENGINEERS INC	8	3	2	10	23	4
C3TS	5	17	9	11	42	11
DRMP	13	18	11	7	49	12
GHYABI & ASSOCIATES INC	6	15	1	9	31	8
INFRASTRUCTURE ENGINEERS INC	16	8	17	17	58	16
INWOOD CONSULTING ENGINEERS INC	3	9	8	1	21	3
KELLY, COLLINS & GENTRY INC	17	7	14	12	50	13
LOCHRANE ENGINEERING INC	15	11	13	14	53	14
METRIC ENGINEERING INC	11	4	5	8	28	7
PEGASUS ENGINEERING LLC	4	5	15	2	26	5
REYNOLDS, SMITH AND HILLS INC	1	1	6	4	12	1
THE BALMORAL GROUP	10	12	16	15	53	15
VANASSE HANGEN BRUSTLIN INC	7	13	3	5	28	6
WBQ DESIGN & ENGINEERING INC	14	14	18	13	59	17
WILBUR SMITH ASSOCIATES INC	9	10	7	6	32	9

The Evaluation Committee approves the short-listed top 4 ranked firms for Presentations.

Reynolds, Smith and Hills, Inc  
 Bowyer, Singleton & Assoc Inc  
 Inwood Consulting Engineers Inc  
 CPH Engineers Inc

  
 Brett Blackadar

  
 Patti Leviti

  
 Jerry McCollum

  
 Shad Smith

**Dean Rd – State Road 426 the Orange County Line**  
**Draft Scope of Services**  
**Phase I – Preliminary Engineering**

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**1.0 Administration**

**1.1 Project Initiation/Notice to Proceed**

The CONSULTANT will prepare for and attend a Kick-off Meeting with the COUNTY's Project Manager, staff and others as determined by the COUNTY. At this meeting, the COUNTY and key members of the CONSULTANT's team will set the final parameters for the project.

The executed work order will serve as the Notice to Proceed.

**1.2 Project Schedule**

As part of the man-hour and lump-sum fee proposal, the CONSULTANT will provide a Project Schedule, identifying the timetable for execution and completion of all elements of the Scope of Work. The schedule will identify major tasks, duration and task relationships. Submittal will be in 11"x17" paper format and in Adobe Acrobat (.pdf) electronic format. The schedule will indicate both projected and actual completions dates. The CONSULTANT will send the COUNTY's Project Manager an e-mail update of the schedule as needed throughout the project.

**1.3 Project Status Meetings**

The appropriate members of the CONSULTANT's team will attend up to four (4) periodic meetings with the COUNTY's Project Manager and staff to discuss the project's progress, status, and upcoming events and activities. The purpose of these meetings is to maintain clear communication between the COUNTY and the CONSULTANT's team. The CONSULTANT will prepare and distribute meeting minutes within ten (10) days following each meeting. The CONSULTANT will also prepare a bi-weekly status support and submit via email by every other Friday at 12:00 PM.

The CONSULTANT will discuss the project's progress and issues with the COUNTY biweekly or more frequently if necessary, via telephone and/or email.

**2.0 Public Involvement**

The purpose of the public involvement element is to get the community involved in the project development and decision making process so that the COUNTY can develop a project that not only meets the transportation needs of the area, but is also supported by the community it serves. Therefore, the CONSULTANT will conduct the following public involvement activities throughout the project.

**2.2 Public Involvement Meetings**

The CONSULTANT will prepare for two (2) public involvement meetings as described below. The Consultant shall prepare a Public Involvement Plan (PIP), and submit it to the COUNTY's Project Manager for review and approval prior to commencing the public meeting process. The PIP shall delineate the Consultant's efforts to inform and involve the citizens of the County, the appropriate state and local agencies, and the responsible appointed and elected public officials in the project planning, review and approval process.

**2.2.1 Public Meeting No. 1**

The CONSULTANT will coordinate and conduct, with the COUNTY's assistance, a public involvement meeting within twelve (12) weeks of the issuance of the executed work order. The purpose of this meeting is to inform the community of the CONSULTANT's scope of work and the various alternative alignments under consideration and to provide the CONSULTANT with public input regarding each of the alternatives.

The meeting will include a formal presentation followed by a question and answer period. The **CONSULTANT** will have staff available to respond to questions from the public.

### **2.2.2 Public Meeting No. 2**

Following completion of the alternative analysis activities and identification of a preferred improvement concept, the **CONSULTANT** will coordinate and conduct public meeting #2. The purpose of this meeting is to inform the public of the recommended alignment before presentation to the **BCC**. The **CONSULTANT** will present the recommended alignment to the public and respond to their questions and comments.

The **CONSULTANT** will conduct all meetings for the **COUNTY** and will ensure that at least four (4) personnel are present from the **CONSULTANT**. The **CONSULTANT** will be responsible for all presentation and handout materials, and will provide minutes / summary of each meeting within two weeks. The **CONSULTANT** will prepare written responses to all questions not adequately addressed at the meetings and will provide follow-up information necessary to respond to the public's questions and comments. All written comments will be responded to in writing within ten business days. In no address is available for the citizen, then a phone mail or email with documentation will be provided.

### **2.3 Board of County Commissioners Public Hearing**

The **CONSULTANT** will provide all support necessary for the **COUNTY** to conduct a Final Public Hearing on the recommended improvement concept. The **COUNTY** will present the project and the recommendations to the **BCC** for action, with assistance from the **CONSULTANT**.

### **2.4 Coordination Meetings**

The **CONSULTANT** will coordinate and conduct meetings with local entities and state organizations, as necessary. At a minimum, a coordination meeting with Orange County will be needed.

### **2.5 Small Group Meetings**

The **CONSULTANT** will be available to conduct up to six (6) meetings with organizations interested in the Preliminary Engineering Study (**PES**). These meetings / presentations may be made to informal homeowners groups, formal homeowner associations or other organizations. The **CONSULTANT** will be responsible for all presentation and handout materials, and will provide minutes / summary of each meeting.

The **CONSULTANT** will prepare written responses to all questions not adequately addressed at the meetings and will provide follow-up information necessary to respond to the public's questions and comments.

### **2.6 Mailing List**

The **CONSULTANT** will prepare a mailing list of interested parties which includes any person or institution expressing an interest in the project, potential permitting or review agencies, utility companies, elected and appointed officials in the area, community leaders, and media representatives. The list will also contain all homeowners / property owners located within 300 feet of any improvement concept.

The **CONSULTANT** will regularly update the mailing list during the course of the study. The **CONSULTANT** will give the **COUNTY** a copy of the mailing list used for each mailout.

### **2.7 Newsletters**

The **CONSULTANT** will prepare and distribute at least four (4) project newsletters. The newsletters will be mailed to notify the public of the meetings and the **BCC** hearing. Another will be mailed to notify the

public of the results of BCC hearing and will provide a schedule for the upcoming final design, land acquisition and construction phases. Additional newsletters may be required by the COUNTY.

The newsletters will be printed in color on 8 1/2 " x 11" sheets. The CONSULTANT will send the newsletters to everyone on the mailing list, plus will print additional copies to be made available at the public meetings. The newsletters will be distributed as needed through the small group meetings, workshops and public meetings, and individual requests.

### 2.9 Advertisements

The CONSULTANT will prepare display advertisements to be posted in the Orlando Sentinel and the Seminole Herald prior to the two (2) Public Involvement meetings. The advertisements will be in black and white 6 7/16" by 7" (21 column inches).

**All advertisements shall be approved by the COUNTY prior to any release or publication. There will be no exceptions to this requirement.**

### 3.0 **Data Collection**

The CONSULTANT will collect all data necessary to develop and evaluate a reasonable range of alternative improvement concepts to meet the forecasted transportation demand of the Dean Rd corridor, as described. The CONSULTANT is to use all available information gathered, including past reports and studies of the area by the COUNTY or other agencies.

#### 3.1 Aerial Photography / Base Maps

The CONSULTANT will prepare minimum 1" = 200 feet scale verified color aerial photography base maps. The CONSULTANT will prepare the aerial photography, suitable for public display with appropriate labeling. This photography will be used to present the overall project concept, master drainage plans, recommended alignment, right of way requirements and other appropriate information.

#### 3.2 Existing Roadway Characteristics

The CONSULTANT will conduct field investigations to collect all pertinent existing roadway information necessary to develop, evaluate and compare the alternative improvement concepts. The roadway data will be compiled, documented and mapped on the aerial photography base maps for review by the COUNTY and for use at the public presentations.

#### 3.3 Traffic Data

The CONSULTANT will collect the traffic data and develop the travel information listed below:

##### 3.3.1 **Traffic Counts**

The CONSULTANT will collect a combination of 48-hour, 24-hour and classification traffic counts (at 15-minute increments) at a minimum of four (4) locations along the corridor and at all major side streets.

The CONSULTANT will collect turning movement counts at two (2) major signalized intersections and all major unsignalized intersections throughout the corridor

##### 3.3.2 **Traffic Factors**

Using the data collected through the traffic count program described above, the CONSULTANT will develop current and future year values for the following traffic factors:

- Peak to Daily Ratio (K) Factor
- Directional Split (D) Factor
- Truck Factor (T)

- Seasonal Factors
- Equivalent Single Axle Loads (ESAL's)

The **CONSULTANT** will document how they determined these factors.

### 3.3.3 Travel Forecasts

Using the METROPLAN ORLANDO (MPO) approved travel forecasting model, the **CONSULTANT** will prepare opening year, interim year, and design year travel forecasts for the Dean Rd PES segment for Build and No-Build conditions. The **CONSULTANT** will perform any model validations required and will document them.

The travel forecasts will be presented as average annual daily traffic (AADT), and directional design hour volumes (DDHV). For the purpose of this study the following horizon years will be assumed:

- Opening Year - 2015
- Interim Year - 2025
- Design Year - 2035

The **CONSULTANT** will also prepare peak hour turning movement forecasts for each major intersection.

The design traffic will be used to establish the basic design requirements for the roadway typical section and each intersection. Using the design traffic, the **CONSULTANT** will perform an AM and PM peak hour operational analysis of each major intersection (for both the Build and No-Build concepts) to establish the minimum required lane geometry needed to adequately serve the projected turning movements. The output of this analysis should include projected lengths of turn lane queues.

### 3.3.4 Design Traffic Report

The **CONSULTANT** will document the traffic data, travel forecasting and analysis activities in an interim *Design Traffic Report* that will be submitted to the **COUNTY** for review and approval. The final *Design Traffic Report* will be completed prior to the **BCC** Hearing. Pertinent information from the *Design Traffic Report* will be included in the *Dean Rd Preliminary Engineering Report*.

## 3.4 Accident Data

The **CONSULTANT** will collect available accident data / information from local sources for the most recent three (3) years. The data collected will, at a minimum, include number and type, location, fatalities and injuries. The **CONSULTANT** will consider this data as they make their recommendations for improvements.

## 3.5 Roadside Safety

The **CONSULTANT** will evaluate roadside safety and make recommendations as to possible ways to improve safety.

## 3.6 Utilities

The **CONSULTANT** will identify any existing and proposed utilities which may influence location and design, including overhead transmission lines, microwave towers, underground water, sanitary sewer, force mains, power cables, etc.

The **CONSULTANT** will document this information in the Utility Section of the *Dean Rd Preliminary Engineering Report*, which will summarize how the existing utilities will influence location and design considerations.

### 3.7 Transportation Plans

The **CONSULTANT** will review and document plans for all modes of transportation including automobile, transit, bikeways, trails, non-motorized vehicles, etc. The information received from these plans will be used to reaffirm the project need and to develop and evaluate the alternative improvement concepts.

### 3.8 Soil Survey and Geotechnical Data

The **CONSULTANT** will review existing soil maps and available geotechnical information for the study area.

The **CONSULTANT** will also perform one soil boring to a depth of 25 feet for each proposed stormwater management facility and will provide an estimated seasonal high water level for each facility.

The results of the geotechnical data collection activities will be documented in the Geotechnical Section of the *Dean Rd Preliminary Engineering Report*. This section will document existing data and boring results, and will contain preliminary recommendations relevant to the project.

### 3.9 Contamination / Hazardous Material Sites

The **CONSULTANT** will review available records to identify sites with documented or possible undocumented contamination. To supplement this recorded information, the **CONSULTANT** will perform a field review of the study area to identify non-reported sites which may potentially be contaminated with hazardous materials. The contamination data and analysis activities will be documented in the Contamination Section of the *Dean Rd Preliminary Engineering Report*.

### 3.10 Right of Way Mapping

The **CONSULTANT** will prepare a right of way identification map for the project at a minimum of 1" = 200 feet scale. The purpose of this map is to provide a tool for the **COUNTY** to track right of way ownership and needs prior to the development of Right-of-Way Maps during design. Among other things, the **COUNTY** will use this to discuss advanced acquisitions/donations with property owners and developers.

The maps will include section line ties, existing right of way, sub-divisions and property lines based on the last deed of record. The **CONSULTANT** will track on this map any right-of-way acquired through Development Agreements or other agreements.

#### 3.10.1 Surveying Service

At a minimum, the **CONSULTANT** will survey the necessary Sections for the corridor to determine the positions of the section and quarter section corners. The surveyor will provide the coordinates in both "hard copy" and electronic data formats. Field data will be kept in standard field books and submitted to the **COUNTY** Project Manager upon completion of the final design phase unless requested before this time. Additional surveying details are included in the Design Scope of Services.

### 3.11 Land Use Plans

The **CONSULTANT** will collect all land use information (existing and future) necessary to develop and evaluate a reasonable range of alternative roadway improvements and to identify locations where right-of-way could potentially be dedicated for the roadway improvement. Information to be collected will include, at minimum, future land use plans, proposed development plans, zoning regulations,

comprehensive plans, and preliminary and final plats. This information will be updated regularly throughout the study period.

The **CONSULTANT** will map pertinent information on the aerial photography base maps and the right of way identification maps for use throughout the course of the project.

### **3.12 Cultural Features**

The **CONSULTANT** will collect information on cultural facilities like parks, schools and recreation areas, as well as the neighborhoods they serve, located within the vicinity of the Dean Rd study segment. This information will be mapped and documented.

### **3.13 Archaeological and Historic Features**

The **CONSULTANT** will identify recorded historical and archaeological sites within the study area by coordinating with the State Historic Preservation Office (SHPO). If there are significant sites located within the vicinity of the alignment alternatives an Archaeological Sub-Consultant will be contracted to supplement this recorded information by performing a field review of the study area to identify non-reported sites which may potentially be eligible for historic designation. Utilizing this information, the **CONSULTANT** will map all sites that may influence the location and evaluation of alternative improvement concepts. This information will be documented in the Cultural Resource Section of the *Dean Rd Preliminary Engineering Report*.

### **3.14 Hydraulic and Natural Features**

The **CONSULTANT** will review existing information to identify significant hydraulic and natural features found within the study area. The **CONSULTANT** will supplement documented information with field reviews of the study area. Information to be documented will, at a minimum, include the following:

- \* Wetlands
- \* Water Quality
- \* Floodplains and Floodways

The **CONSULTANT** will document, in report and map format, all information that may influence the location and evaluation of alternative improvement concepts.

#### **3.14.1 Permit Information**

The **CONSULTANT** will also collect project related permit information to determine whether environmental resource permits, dredge and fill permits, water quality permits, or stormwater discharge permits will be required. This activity will include identifying all relative permitting agencies, as well as all existing permits.

#### **3.14.2 Preliminary Drainage Analysis**

The **CONSULTANT** will identify existing drainage deficiencies within the project corridor and vicinity (including drainage outfalls) and will recommend solutions to be incorporated with the project. This includes reviewing existing drainage studies and reports.

### **3.15 Threatened and Endangered Species**

The **CONSULTANT** will review existing information to determine the potential presence of threatened or endangered plant and animal species within the study area. The **CONSULTANT** will supplement documented information with field reviews of the study area. The **CONSULTANT** will document in

report and map format in the *Dean Rd Preliminary Engineering Report* all information that may influence the location and evaluation of alternative improvement concepts.

### **3.16 Corridor Analysis / Project Needs**

Following completion of the data collection and evaluation activities, the **CONSULTANT** will analyze the corridor study area. This analysis will determine if the existing Dean Rd corridor is the most appropriate corridor within which alternative improvement concepts should be developed and evaluated.

The Corridor Analysis activities will, at a minimum, reconfirm the improvement need, address the existing and projected travel demand within the corridor, the current and projected development patterns within the corridor, and the presence of any environmentally sensitive features within the corridor.

The Corridor Analysis will be documented in the Corridor Analysis Section of the *Dean Rd Preliminary Engineering Report*.

## **4.0 Development and Analysis of Improvement Alternatives**

The **CONSULTANT** will perform the following tasks to develop, analyze and compare alternative improvement concepts within the Dean Rd corridor.

### **4.1 Alternative Typical Sections**

Based on the Draft Design Traffic Report, the **CONSULTANT** will develop a minimum of three (3) appropriate alternative typical sections for evaluation. The **CONSULTANT** will then evaluate these typical sections using criteria that will include but not be limited to access management standards, right of way requirements, traffic volumes, and bicycle and pedestrian features. The analysis will be documented in the *Dean Rd Preliminary Engineering Report* and submitted to the **COUNTY** with a recommendation of a preferred typical section.

### **4.2 Access Management Determination**

The **CONSULTANT** will evaluate the effects of different access management classifications for Dean Rd and will recommend an appropriate access management classification for the road. This includes recommending minimum median opening and directional median spacing and locations. In addition, the **CONSULTANT** shall also recommend appropriate geometric design at intersections and median openings, including median noses and curb returns, to accommodate U-turn maneuvers.

The **CONSULTANT** will document the evaluation and recommendation of the alternative access management classifications in the *Dean Rd Preliminary Engineering Report*.

### **4.3 Alternative Improvement Concepts**

#### **4.3.1 Develop Alternative Alignment Improvement Concepts**

The **CONSULTANT** will develop a minimum of three (3) Alternative Alignment Improvement Concepts for each of the typical sections under evaluation.

The proposed right of way requirements will be printed on each Alternative Alignment Improvement Concept display. The approximate square footage of each parcel affected by the alternative will be printed on the aerial within the parcel.

#### **4.3.2 Analyze Alternative Improvement Concepts**

The **CONSULTANT** will analyze the benefits and impacts associated with each Concept as well as the No-Build Concept. The analyses to be performed for each Concept, including engineering and environmental assessment, are described below:

- **Cost Analysis** - The CONSULTANT will develop engineering design, right of way and construction cost estimates for each alternative. Right of way cost estimates will include combined values for right of way administration, land cost and damages. A preliminary cost estimate for construction and right of way of one of the discussed alternatives shall be provided to the County within 60 calendar days of the issuance of NTP. The purpose of this preliminary estimate is to assist the County with budgeting properly for this project.
- **Grant Funding** - The CONSULTANT will research potential grant funding opportunities for the alternatives developed.
- **Conceptual Drainage Analysis** - The CONSULTANT will perform a preliminary drainage analysis of each alternative to determine the potential outfall locations and preliminary sizes (volume and area) of required stormwater management facilities.
- **Community Impact Analysis** - The CONSULTANT will estimate the number of residences, businesses, neighborhoods, and community facilities impacted by each alternative. The right-of-way cost estimate will reflect the cost of these impacts while this measure will reflect the number of each impacted.
- **Visual / Aesthetics** – The CONSULTANT will prepare concept renderings at various locations for each alternative improvement concept. These renderings will be used to convey the future appearance (i.e. visual and aesthetics) of each alternative improvement concept to the public at the various meetings.
- **Wetland Impacts** - The CONSULTANT will estimate the acres of wetlands, if any, impacted by each alternative.
- **Flood Plain Impacts** - The CONSULTANT will estimate the extent of flood plain encroachment, if any, of each alternative.
- **T&E Species Impacts** - The CONSULTANT will quantify / qualify potential impacts to threatened and endangered species habitat associated with each alternative.
- **Archaeological and Historic Feature Impacts** - The CONSULTANT will estimate the number and extent of impacts caused to archaeologically significant or historical structures.
- **Contaminated Sites Impacted** - The CONSULTANT will estimate the number and extent of impacts to contaminated sites, and shall recommend whether a Phase II Environmental Site Assessment should be completed.
- **Tree Impacts** - The CONSULTANT will estimate the number, type and size of trees impacted by each alternative.
- **Lighting** - The CONSULTANT will determine if lighting is justified for any portion of each alternative.
- **Geotechnical Analysis** – The CONSULTANT will evaluate the suitability of the soil underlying each alternative.

#### 4.3.3 Evaluation Matrix

The CONSULTANT will prepare an evaluation matrix to document and compare each alternative. This matrix will be used to clearly identify the most viable improvement concept. It will be prepared in a manner suitable for presentation to the public. A draft matrix shall be

submitted to the COUNTY's Project Manager for review at least fifteen (15) days prior the second public involvement meeting. The COUNTY's review comments shall be incorporated into the matrix prior the second public involvement meeting with the recommended alternative labeled. The final Evaluation Matrix will be ready for inclusion in the BCC Public Hearing agenda package.

**4.4 Select Preferred Alternative**

Following completion of the alternative analysis and prior to the second public involvement meeting, the CONSULTANT, in association with the COUNTY Project Team, will select a preferred improvement alternative to be evaluated at a more detailed level.

**5.0 Preferred Improvement Concept**

The CONSULTANT will refine the preferred improvement concept to finalize the major elements of the project. These refinements will include estimating the right of way limits, pond locations, social impact estimates, cost and other major features needed to advance the project to the design phase.

**5.1 Dean Rd Preliminary Engineering Report**

The *Dean Rd Preliminary Engineering Report* will clearly explain why the Project Team made the decisions they did. It will document all public involvement activities, alternatives development and analysis efforts, all activities leading to and including the final recommendations.

The CONSULTANT will submit the draft *Dean Rd Preliminary Engineering Report* within four (4) weeks after the second Public Involvement meeting. The revised draft will be submitted at least five (5) weeks prior to the BCC Public Hearing in time to be included in the preparation of the BCC agenda memorandum.

The CONSULTANT will finalize the document following the BCC Public Hearing by incorporating the final public input received and the BCC's final action on the recommendation.

**6.0 Deliverables**

Please note that all deliverables are to be submitted in both hard copy and in Adobe Acrobat (.pdf)

The number and format of the deliverables requested are as follows:

*Alternative Improvement Concepts (11x17 color) . . . . . 2*  
*Recommended Improvement Concepts (11x17 color) . . . . . 2*

*Draft Design Traffic Report . . . . . 2*  
*Design Traffic Report . . . . . 2*  
*Geotechnical Report . . . . . 2*

*Items for BCC Agenda Package*

- Evaluation Matrix . . . . . 15
- Recommended Typical Section . . . . . 15
- Project Location Map . . . . . 15

*Dean Rd Preliminary Engineering Report*

- Draft . . . . . 2
- Revised Draft . . . . . 2

- Final Report..... 5
- Right-of-Way Identification Map*..... 2

----- End of Phase I Scope -----