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Solicitation Addendum

Addendum No.:	6
Solicitation No.:	19-TA003162CD
Project No.:	6086960 and 6045662
Solicitation Title:	44 th Avenue East Extension Project- from 45 th Street East to I-75
Addendum Date:	December 29, 2019
Procurement Contact:	Chris Daley, CPPO, CPPB- Procurement Manager

IFBC No. 19-TA003162CD is amended as set forth herein. Responses to questions posed by prospective bidders are provided below. This addendum is hereby incorporated in and made a part of IFBC No. 19-TA003162CD.

**Change to:
APPENDIX A, MINIMUM QUALIFICATION, ITEM 6**

If bidding as a General Contractor- Bidder, on the day the bid is submitted, has a certified or registered Qualifying Agent, as required by Section 489.119, Florida Statutes, and that Qualifying Agent has been the same Qualifying Agent of Bidder for a period of at least five consecutive years, since September 2014.

Submit a copy of Bidder's Qualifying Agent's registration or certification along with supporting documentation. ~~confirming Qualifying Agent has been the Qualifying Agent for Bidder for five years, since September 2014.~~

**Replace:
APPENDIX J, BID PRICING FORM, BID PRICING FORM PAGES APPENDIX J-1 THROUGH J-20**

Replace Bid Pricing form pages Appendix J-1 through J-20 with the Revised bid Pricing Form pages Appendix J-1 through J-21 that are issued with this Addendum 6.

**Replace:
ELECTRONIC BID PRICING FORM**

Replace Electronic Bid Pricing Form with the Revised Electronic Bid Pricing Form issued with this Addendum 6.

Replace:

BID ATTACHMENT 5, ROADWAY PLANS-45th Street East to 44th AVENUE PLAZA EAST, PLAN SHEET NUMBERS 3 AND SO-22

Replace Bid Attachment 5 Plan Sheet numbers 3 and SO-22 with the revised Plan Sheet Numbers 3 and SO-22 issued with this Addendum 6.

Replace:

BID ATTACHMENT 6, LIGHTING PLANS- 45TH STRET EAST TO 44TH AVENUE PLAZA EAST, PLAN SHEET NUMBERS L-4 AND L-7

Replace Bid Attachment 6 Plan Sheet numbers L-4 and L-7 with the revised Plan Sheet Numbers L-4 and L-7 issued with this Addendum 6.

Replace:

BID ATTACHMENT 7, POTABLE, SANITARY, AND RECLAIMED WATER UTILITY PLANS- 45TH STREET EAST TO 44TH AVENUE PLAZA EAST, PLAN SHEET NUMBERS ULS-4, ULS-6, AND ULS-10

Replace Bid Attachment 7 Plan Sheet numbers ULS-4, ULS-6, and ULS-10 with the revised Plan Sheet Numbers ULS-4, ULS-6, and ULS-10 issued with this Addendum 6.

Change to:

RESPONSE TO QUESTION 63 ISSUED IN ADDENDUM NO. 5

~~R63. The purpose is to certify that all lighting components were properly installed, not to verify the design.~~ The Contractor will not be required to verify the horizontal foot candle levels at final inspection.

Add:

The following items are added for informational purposes:

1. SWWFMMD Permit Approval- 44th Ave, east from 44th Ave. plaza East to West of I-75.
2. Liquidated Damages Calculations.
3. Universal Engineering Services Boring Log.
4. Construction Plans for Creekwood Boulevard Extension Phase 1

QUESTIONS AND RESPONSES:

Q1. On project 6086960 Plan Sheet L-4, General Note #20 requires pull boxes with metal covers. This seems to be an old note. Currently, there are no pull boxes with metal lids on the APL. Pull boxes with metal lids can still be ordered as long as the owner understands that they won't be on the APL. (Note: this is not a requirement on the portion of the project from 44th to I-75.). Please clarify.

R1. Metal covers for pull boxes are not required. See revised Plan Sheet L-4 issued with this Addendum 6.

Q2. On project 6086960 Plan Sheet L-4, General Note #22 requires that where there is conflict achieving minimum depth of conduit an additional 3" PVC sleeve shall be placed (or backfield with 4"x4" concrete). Basis of Estimate for conduit pay items do not include such a treatment. We propose that a separate pay item be provided to account for the installation of that additional sleeve using the footage of the areas currently marked on the plans as "shallow". That way if additional areas with this issue are discovered, the contractor has a way to get paid for the additional work. (Note: this is not a requirement on the portion of the project from 44th to I-75).

R2. Disregard general note #22 in regard to less than 30" conduit depth. See revised Plan Sheet L-4 issued with this Addendum 6.

Q3. On project 6086960 Plan Sheet L-4, General Note #30 estates that poles located on slopes greater than 1:4 up to 1:2 have been flagged. Such “flags” seem to be missing. We were not able to find any special marks on the plans. Please provide.

R3. See revised Plan Sheet L-4 issued with this Addendum 6.

Q4. On project 6086960 Plan Sheet L-7 the 3rd symbol shown on the right side of the page has a description of 2-2” Sch 40 PVC conduits direct buried. We were unable to find any locations on the plans where this is used. If this is needed, please provide locations. (Note: the legend does not show the symbol for directional bore with 2-2” HDPE conduit but the plans clearly show several locations. Could it be that there is no direct buried 2-2” Sch 40 conduit on the job and the symbol/description they meant to use was for directional bore?)

R4. Symbol shown on legend is for 2-2” HDPE conduits for directional bore. See revised Plan Sheet L-7 issued with this Addendum 6.

Q5. Pay Item #18, Vibration Monitoring is extremely vague. Please provide information on requirements and extent of testing required so we can solicit quotes from testing firms. This scope may best be handled with a \$ allowance amount to work from since true scope is unknown.

R5. See response to question 5 in Addendum 2.

Q6. Reference specifications Section 01150, MEASUREMENT AND PAYMENT, there is no measurement and payment description item for the Mobilization bid item, please clarify.

R6. Mobilization will be paid under the FDOT Pay Item # 0101 1. In addition, a clarification of this pay item has been added to the Special Provisions.

Q7. Since existing base removal is to be paid for under pay item 110-1-1 Clearing & Grubbing, is there a volume calculation or existing base depth which can be provided to the bidders?

R7. Universal did borings along the existing pavement showing 11” of base for the 45th Street East to 44th Avenue Plaza East section. The existing base information for 44th Avenue East from 44th Avenue Plaza East to Creekwood Blvd is 8” crushed concrete or cement stabilized shell base as indicated on Sheet 8 of 17 in the as-built plans. See boring log and Construction Plans for Creekwood Boulevard Extension-Phase 1 issued with this Addendum 6.

Q8 On Sheet U-23 there is a 30x6 MJ Tee called out but no BID Item for it. Where do you want us to include payment for it?

R8. A Pay Item for the Ductile Iron Water Main Flitting 30” x 6” Tee has been added to the Bid Form with this Addendum 6.

Q9. Please update the bid form to include pay item No. 102-14 “Traffic Control Officer,” as required for traffic signal installation and testing.

R9. See revised Bid Form issued with this Addendum 6.

Q10. Please update the SOQ sheets with the correct traffic control device quantities.

R10. See revised SOQ sheets issued with this Addendum 6.

Q11. Our Qualifying Agent of 14+ years recently passed away in 2016, and our current Qualifying Agent was certified in 2016, we have been a General Contractor in Florida for 36 years. Would these circumstances disqualify us from meeting minimum qualifying requirement #6?

R11. See revision to Item 6 of Appendix A above.

Q12. Does the classification of litigation required to be disclosed in #7 include HR or personal injury/workers compensation type litigation, or is it limited to litigation between owners, contractors, subcontractors, and vendors?

R12. All litigation.

Q13. Do steel cover plates are required over all bridge expansion joints at Sidewalks and Multi-Use Path sections?

R13. Yes, provide cover plates over bridge expansion joints at the sidewalk and multi-use path per Design Standard Index 21110 and Specification 458. The cost is to be included in Pay Item No. 458-1-11.

Q14. Reference bid form, Pay Item 261, UW-1B 36" DIP RJ, bid quantity shows 2,685LF, plans show 2,900LF, please review.

R14. We recalculated the following: Pay Item UW-1A 36" DIP PO: 1,957 LF and Pay Item UW-1B 36" DIP RJ: 2,838 LF. Please note that the bridge pipping is in a separate pay item. Please see revised Bid Form issued with this Addendum 6.

Q15. Reference bid form, Pay Item 266, UW-1G 8" DIP PO, unable to determine where this pipe run or sections of runs for this pipe are at and need to know as Manatee County will not allow connecting to dissimilar pipe type without using mechanical joint sleeves, please define location or locations.

R15. We reviewed the 8" DIP potable water main lengths. The majority is restrained joint. However, there are areas between fittings where push on joint may be needed. We are reducing the quantity to a nominal amount in the event that this pay item is needed: Pay Item UW-1G 8" DIP PO: 40 LF. See revised Bid Form issued with this Addendum 6.

Q16. Reference bid form, Pay Item 267, UW-1H 8" DIP RJ, bid form quantity shows 706LF, plans show 416LF, please clarify.

R16. We recalculated the following for Pay Item UW-1H 8" DIP RJ: 320 LF. See revised Bid Form issued with this Addendum 6.

Q17. For your Air Release Valves. On Plan Sheet U-69 it calls for the 36" ARV at bridge high point to be a "Duojet" By GA Industries" but in addendum 2 it calls for ARV's on water to be GA Fig-920. Do I need to use the "Duojet" on the bridge high point since it is attaching to flange butterfly valve and flange tee? Also for the 8" FM ARV at bridge high point the plans call the ARV to be "H-Tec Model 986". However, in addendum 2 it calls for water ARV's for sewer to be GA Fig-929. Which one do I use for the 8" FM bridge high point application?

R17. The air valve for the 36" potable water main on the bridge shall remain 6" Combination Air Valve Duojet by GA Industries (renamed Figure 970 Duojet since the design) as shown on the plan sheet. Any potable water air release valves required for the remainder of the project, shall be per the County Approved Products List, issued in Addendum 2.

The air valve for the 8" dry force main on the bridge shall remain Combination Air Valve Model 986 (SST) by H-Tec as shown on the plan sheet. This air valve is required to prevent "burping" or spillage of wastewater on the bridge or into the waterway below. This is the model and manufacturer listed in the Approved Products List included in Addendum 2. Any other force main air release valves required for the rest of the project, shall be per the County Approved Products List, issued in Addendum 2.

Q18. Please provide all 3rd party utility schedules as well as the ACOE & SFWMD permits for this project.

R18. See permits issued with this Addendum 6.

Q19. With regard to the daily liquidated damages in Section A, Article A.46 of the Information for Bidders, the amount per day is substantial and precise. Respectfully, and to understand how this \$12,147.00 per day amount is not a penalty, please provide the reasonable detail justifying the amount.

R19. Liquidated Damages calculations issued with this Addendum No. 6, are based on FDOT methodology for the Transportation portion of the project and Manatee County calculations for the Utilities portion of the project.

Q20. If the daily liquidated damages amount of \$12,147 in Section A, Article A.46 of the Information for Bidders, is the expected cost/damages for late delivery, is there an opportunity to receive an early completion benefit at the same or any adjusted amount?

R.20 No.

Q21. As the Special Provisions in Section C of the Bid Attachments on Final Payment allows the withholding of \$150,000.00 or 5% until the County has approved the record drawings, please indicate the expected reasonable time in calendar days required for such County review and approval after presentment by the Contractor.

R21. Up to 30 calendar days should be expected for each Record Drawings review submittal.

Q22. Please confirm that all Contract payments (whether progress or final) are acknowledged as being subject to applicable Prompt Payment Statutes.

R22. Refer to Article 5.A(3) of the Sample Agreement issued in the IFBC documents.

Q23 With respect to Warranty requirements under General Condition Article 2.4(ff) of the sample contract, our surety indicates a concern regarding a 3-year warranty presents some issues. Typical is a one-year period, and occasionally it is two years. Can the 3-year period be adjusted to 2 years?

R23. A minimum 3-year warranty is required.

Q24. With respect to anticipated adverse weather in Excusable Delays, General Condition Article 1.1(M) of the sample contract, please provide a tabulation of the number of days by month at the Project location for which Offerors should anticipate adverse weather impacts based on historical data, or indicate the specific data source to be used for that purpose?

R24. Each Bidder is to determine the number of adverse weather days that they could reasonably expect for this project.

Q25. We question whether or not the engineer consulted with American Cast Iron Pipe company about the use of their Flex-Ring restrained joint pipe in conjunction with the EBAA Expansion Joint material. U.S. Pipe does not agree with that. We are soliciting to three (3) ductile pipe manufacturers for an economic advantage and feel this issue needs to be addressed.

R25. The bridge pipe design was prepared with assistance from AECOM's National Technical Practice Leader for Large Diameter Pipeline Designs, Andy Romer, PE. Mr. Romer is a national recognized expert in this field. Consequently, we are confident in the design. We would recommend that the bidders bid the design as shown. Once the contract is awarded, if the selected contractor elects to submit an alternative design, we will review the proposed design and if it meets the design requirements, we will consider approving it.

Q26. Regarding item 107, Concrete Curb & Gutter, Variable Height Type F; I'm unable to find any information for this work. Please clarify.

R26. Summary of Pay Items Sheet 3 states Pay Item 520-1-11 is for the Type AB Concrete Curb and Gutter (7,681 LF). The Type AB curb is included in the Manatee County Standards Exhibit 401.2 and detailed in 201.0 and 201.3

Q27. Regarding item 125, Fencing; the Stormwater Management Facility plan sheets indicate fencing but sheet 135 seems to indicate a connection to an existing fence. Also, the bid quantity appears to be understated. Please clarify.

R27. Bid quantity has been revised to 983 LF, with 558LF around Pond 1 and 425LF around Pond 2. See revised bid Form issued with this Addendum 6.

Q28. Regarding item 423, Apply Spray Liner To Existing Manhole; this work is partially detailed on sheet U-22 and further defined on sheet ULS-5. The following sentence is included on ULS-5, note 3, "All three manholes shall be rehabilitated as necessary". This statement is somewhat subjective. Exactly to what extent are these manholes to be rehabilitated? Please clarify.

R28. Assume that manholes are in good condition and no repair work is required. Work is limited to preparation work required by coating manufacturer to apply coating.

Q29. Regarding item 350, Restrain Existing 36" PCCP Pipe Joints; please furnish a cost for the work specified to be supplied by US Pipe/Forterra.

R29. US Pipe/Forterra should be contacted to obtain price for performing this work. Contact information is provided on Sheet U-68.

Q30. Please clarify what, if any, building demolition will be required.

R30. No demolition will be required.

Q31. On page SQ-22 Summary of Permanent Barrier Wall, this page details bid item 555 Median Concrete Barrier Wall and bid item 570 Shoulder Concrete Barrier Wall, Rigid-Curb & Gutter. Both these items show a starting point west of the bridge with a station point in or about station 195+00 and finishing east of the bridge with a station in or about 214+00. Structural plans show bid item 560 Concrete Traffic Railing, Bridge 32" F – Shape having 4 runs across the bridge starting at the approach slab on the west side station 127+24.29 running through the bridge to the east side approach slab 212+86.57. Our question is which is the correct barrier and quantity running across the bridge?

R31. The bridge railing quantity is correct, and the duplicate run of roadway barrier along the length of the bridge should not be included and will be revised. See revised Plan Sheet SQ-22 issued with this Addendum 6.

Q32. Is temporary striping included in the striping pay items or is it to be paid under Maintenance of Traffic?

R32. Temporary striping is included in pay items series 710-11-XXX shown on Summary of Pay Items Sheet No. 3.

Q33. After the installation of the 36" PW, the 6" FM and the removal of the 36" PW on 51st Street the road will need to be rebuilt. Have the quantities for rebuilding this roadway be included in the project bid schedule?

R33. Refer to Pay Items 253 through 256 (UG4 through UG7) and the description for payment in the specifications.

Q34. After the installation of the 36" PW, 8" FM and 8" PW on Morgan Johnson Road the road will need to be rebuilt. Have the quantities for rebuilding this roadway be included in the project bid schedule?

R34. Refer to Pay Items 253 through 256 (UG4 through UG7) and the description for payment in the specifications.

Q35. Has there been an MOT plan developed for the utility installation along Morgan Road? If not, what are the requirements of the contractor to maintain traffic in this area? Can traffic be detoured?

R35. Please refer to the Maintenance of Traffic requirements provided in the Special Provisions.

Q36. Item 0425-1-531 Inlets, Type C Modified Back of sidewalk inlets. Plan sheet 139 Note 3 specifies payment for the wingwalls/gravity walls to be included in Item 400-0-11 yet I do not believe the qty required has been accounted for. Could you please verify if this is the intent and provide the correct qty. Note due to the small qty at each structure (20) Including this qty in the Gravity Wall Payitem will drive up the unit price P/CY.

R36. Payment for the gravity walls at the Type C Modified Back of Sidewalk Inlets shall be paid under pay item 400-0-11 per construction plans. After further review, the total quantity shown on construction plans does not include a quantity for construction of the gravity walls at these locations. A quantity of 260 CY shall be added to pay item 400-0-11.

Q37. Pay item 0425-1-531 calls for 20 Each I can only find 19. Please verify plan qty.

R37. EOR re-verified the quantities on the plans and these are showing a total of 20.

Q38. Pay item 0400-2-2 Concrete Class II Endwalls includes 12.5 CY in the 44th Ave East Braden River Segment Could you explain where this is?? I have only found endwalls with the call out of "Per FDOT Index 250" Which should be paid under the 0400-1-2 Pay item.

R38 After further verification, pay item 0400-2-2 Concrete Class II Endwalls shall be removed from the bid forms. Also quantity for pay item 0400-1-2 shall be revised to 15 CY.

Q39. Can you confirm a searchable term, or terms, that can be used to search for the Fabric Form structures within the set of plan documents, and provide which set of documents to find the structures in?

R39 Fabric Form Structure will not be used for this project.

Q40. Can you confirm a searchable Legend (pattern) that can be used to search the set of plan documents which contain the locations of the Fabric Formed Concrete Revetment Systems?

R40. Fabric Form Concrete Revetment Systems will not be used for this project.

Q41. Several areas of the job including the north side of the 44th Ave. near Stations 182+00 and 230+00 have existing electric security gates and decorative stone pedestals. Is it the contractor's responsibility to relocate these features outside the proposed Right of Way?

R41. The security gate at station 230+00 has already been relocated outside of the right-of-way by the owner. The gate at station 182+00 is for the County's Elwood Booster Station and as specified in the notes on Sheet C-401 of the Elwood I Pump Station Site Plans, the pay item# 0110 1 1 to include dismantle and relocation of the existing gate.

Q42. We are being told by the installer of the Chance Soil Anchors that there is not enough information given to come up with a design for the helical piles. A redesign would have to be completed during the installation process. If the soils can't generate enough torque to reach proper pile capacity then a design change would be required. Please provide sufficient engineering data so the anchors can be priced as needed.

R42. Soil Boring information for deadman location needed for design is included on Sheet UB-01

Q43. Reference bid form, pay item 319, UW-4H Concrete Slab, where is this at?

R43. They are located as follows:

- Sheet U-65: between pile cap and bridge abutment
- Sheet U-66: between pile cap and bridge abutment; between pile cap and gravity thrust block

Q44. Reference Elwood I Pump Station plans, sheet C-301, TYPICAL STABILIZED GRAVEL PAVEMENT DETAIL, what type of gravel base is being specified, no 57 stone or what? An LBR of 100 cannot be achieved on 57 stone. Please clarify.

R44. Gravel pavement can be a mix of 75% coarse gravel and 25% fine gravel, compacted to a minimum of 98% of modified proctor test max dry density (AASHTO T- 180). Also see the notes on Sheet C-301.

Q45. Reference Elwood I Pump Station plans, where is the bid item or bid items for the work at this site, or are the items shown on plan sheet C-401 incorporated into the applicable bid items?

R45. Included in the bid tabs

Q46. Reference Elwood I Pump Station plans, Sheet C-111, regarding the relocation of the existing access gate, there is no bid item for this work, please provide.

R46. Gate relocation is to be covered under 011011. This direction provided under note.

Q47. With regard to wet taps 12-inches and smaller, including taps for water service material, will Manatee County make these taps and if so, how much will the Contractor be charged for this service?

R47. The County will perform wet taps. Budget \$600 per wet tap.

Q48. Reference bid form, Pay Item 330, UW-9, 8" Insertion Valve, bid quantity equals two, plans show three. Two of these are "temporary" and one is "permanent", but there is not a separate pay item for the "permanent" one. Please clarify.

R48. Pay Item 330, UW-9, 8" Insertion Valve. There are three (3) 8-inch insertion valves. No separate pay item is provided for temporary versus permanent.

Q49. Reference bid form, Pay Item 332, UW-11A, Above Ground Air Release Assembly, bid quantity shows seven (7), six (6) of these are along the route of the direct buried 30-inch and 36-inch water main and one (1) is on the bridge. Pay Item 314, UW-4C, is for the air release on the bridge. Bid quantity for Pay Item 332 needs to be six (6). Please review.

R49. See Revised Bid Form issued with this Addendum 6.

Q50. Reference Utility Work Plans, sheet U-82, Detail UW-10, Note 2, sizing of the vent orifice, is this an issue the engineer needs to discuss with the manufacturer to confirm size in order for the contractor to bid accordingly? Please clarify.

R50. This is a County standard detail. Please provide the water main size to the manufacturer so that they can select the correct orifice size for their product.

Q51. Reference Utility Work Plans, sheet U-72, WATER METER NOTES, Note 5, sheet UW-84 does not have Detail UW-19, please provide this detail.

R51. Sheet UW-84 of the original Bid Plans, included County Detail UW-19. Revised Sheet UW-84 issued in Addendum 2 includes updated County Details, where UW-20 replaced UW-19. Please use UW-20.

Q52. Reference bid form, Pay Item 289, UW-2Q 30" Cap, bid quantity shows one (1) each, plan sheet U-61 shows two (2) caps. Are the caps on sheet U-61 going to be paid in Pay Item 289? If not, where is the single 30-inch cap the bid quantity has at, and will the two (2) caps on sheet U-61 be paid in Pay Item 346, UW-16 Elwood I Pump Station Interconnection?

R52. Both caps will be paid under Pay Item 289, UW-2Q, 30" Cap.

Q53. Reference plan U-61, there are two (2) 36"x6'-0" FLxFL pieces of pipe shown, are these pipes to be included in the scope of work for Pay Item 346 or will these be paid in Pay Item 261 as restrained joint pipe?

R53. Include under Pay Item 261, UW-1B 36" DIP RJ

Q54. Reference plan sheet U-61, the use of the Uni-Flange 2800 Series restraint in this application is not a good one, suggest using a mechanical joint sleeve with meg-a-lugs and do away with the flanged end pipe at the connecting point. The sleeve will seal around the barrel of each pipe more effectively than trying to seal each pipe at one point.

R54. Bid design as is. If the selected Contractor has an alternative, we will consider it after the contract is awarded.

Q55. Reference the geotechnical report, surcharge embankment, and plan sheet 34 of the AECOM plans. Is the volume of fill that will be needed for the surcharge embankment included in the embankment bid item?

R55. Pay Item 120-77, Surcharge Embankment has been added to the Bid Form issued with this Addendum 6.

Q56. What bid item does the placement and removal of the surcharge fill material compensate the Contractor for these efforts?

R56. See response to question 55 above.

Q57. With regard to surcharge embankment, please provide the quantity of fill material for each surcharge location.

R57. See General Notes (3), Sheet 34, for Preloading/Surcharge Embankment Detail, station limits, and height.

Q58. Regarding bacteriological sample points and chlorine injection points on water main pipe 24-inches and larger in diameter, can the corporation stops be direct tapped to the pipe using a CC threaded corporation stop in lieu of a saddle?

R58. Yes, this can be done on DIP 24" and larger.

Q59 Reference Roadway Plans for 45th Street East to 44th Avenue Plaza East, sheet 139, Note 3, the bid form quantity does not appear to have included the volume of gravity wall concrete that will be installed at these back of sidewalk inlets, will this be a problem?

R59. After further review, the total quantity shown on construction plans does not include a quantity for construction of the gravity walls at the Type C Modified Back of Sidewalk Inlets. A quantity of 260 CY has been added to pay item 400-0-11.

Q60. Reference Specification Section 02640, Valves and Appurtenances, 2.04.” Per section 2.04 there is no mention of torque-limiting devices for valves 16” inches and larger, please confirm these devices are not required.

R60. Provide torque limiting devices on butterfly valves.

Q61. Reference plan sheet U-67, BOX CULVERT CROSSING detail, what is the size of the concrete pad?

R61. 35' long x 6'-2" wide

Q62. It was mentioned that the site work items were paid for in individual pay items in the bid schedule. Where are we to be paid for the gravel parking areas, relocation of gate and card reader?

R62. Per Sheet C-401 in the Elwood Plans, the gravel parking area is covered under pay item 0530 74 (bedding stone), and the relocation of the gate and card reader are to be included under pay item 0110 1 1 (see note).

Q63. Reference Elwood I Pump Station Site Plans, sheet C-401, QUANTITIES, Pay item # 0634-4600, Span Wire Assembly, Remove – Poles Remain, where is this work at? The location of the span wire assembly was not identified at the site visit. Please clarify.

R63. Pay item # 0634-4600, Span Wire Assembly, Remove – Poles Remain... is incorrect and should be 0643 620 Wood Strain Poles, Remove. It's 1 single pole with an electrical box attached, no span wire or electrical overhead wires. Pole to be removed is located on the C-111 demolition plan and labeled as "Remove existing electric box and existing pole (not in use)" See Revised Bid Form issued with this Addendum 6.

Q64. Reference Elwood I Pump Station Site Plans, sheet C-101, EXISTING CONDITIONS PLAN, at the southwest corner of the "Existing Building" there is an earthen mound with ornamental concrete block holding the soil in place, but there is no description of what this is and or what is buried beneath this raised soil surface. It does not appear to get demolished and will be in very close proximity to the excavation of the pipe trench that will impact it. We need to know what is buried there and if additional shoring will be needed to safeguard it. Please clarify.

R64. Earth mound - According to the County, the mound has water valves and relief valves buried and is not to be demolished. Contractor should coordinate with the County before beginning any excavation.

Q65. One of the electrical sub-contractors noted that the change from 208 volt service to 240 volt service for the grinder pump station will require a transformer to accomplish, but the electrical drawings do not provide for a transformer. Please clarify.

R765 The power available at the County's Elwood I BPS is 2400v/3 phase and 208v / 3 phase. The County requires lift station pump motors to be 230 volt. A boost transformer will be added to convert the 208v to 240v power for the grinder lift station panel. See revised Plan Sheets ULS-4, ULS-6, and ULS-10 issued with this Addendum 6.

Q66. Reference Elwood I Pump Station Site Plans, sheet C-301, TYPICAL STABILIZED GRAVEL PAVEMENT DETAIL, this detail is requiring an LBR Value of 100 and be compacted to 98% of modified proctor, gravel or stone in this case will not compact and will not achieve an LBR Value of 100, please review this detail and provide clarification.

R66. Mix of 75% coarse gravel and 25% fine gravel, compacted to a min. of 98% of modified proctor test maximum dry density (AASHTO T-180) is acceptable. All materials used in construction shall comply with latest edition of the FDOT Standard Specifications FOR Road and Bridge Construction, including, but not limited to, Sections 200/204, 290, and 901. The subgrade soils shall be compacted to 95% of modified proctor test maximum dry density (AST D 1557) with a design LBR of 40 (after stabilization).

Q67. Reference Elwood I Pump Station Site Plans, sheet C-302, ASPHALT PAVEMENT DETAIL, this detail shows a 12-inch stabilized sub-grade with a minimum LBR of 40 and a 6-inch limerock base course, there are no pay items for either of these items, please review and provide bid items.

R67. it's a small area in the asphalt parking; the following pay items have been added to the Bid Form:

0180 72 12" stabilized subgrade about 14cy

0210 2 6" limerock base course about 7cy

Q68. Reference Elwood I Pump Station Site Plans, sheet C-401, QUANTITIES, Pay Item # 0530 74, BEDDING STONE, the notes on this sheet tells us to include filter fabric under the gravel, the detail on sheet C-301 does not show filter fabric, please clarify.

R68. Yes, filter fabric should be included/ (MIRAFI 140-N) and is incidental to pay item 053074. The quantity under the gravel amounts to 2530 SY.

Q69. Are metal covers required for pull boxes?: Only on lighting sheet L-4 for project 6086960 there is a note requiring metal lid boxes. Project 6045662 does not require metal lid on pull boxes at all. Please confirm that the County will allow the lack of uniformity on pull box lids throughout the project.

R69. See response to question 1 above.

Q70. For project 6086960 provide quantity and location of light poles requiring special foundations or poles that are on slopes greater than 1:4 up to 1:2. Similarly, on project 6045662, pay item 715-4-23 is for standard pole with Special foundation, but details have not been provided. Please provide special foundations or spread footer details as soon as possible.

R70. For Project 6086960, see Revised Plan Sheet L-4 issued with this Addendum 6. For Project 6045662, the spread footer designs will be included in a future revision to the lighting plans. Details are being reviewed, but the following information is provided to assist with the bidding of pay item 715-4-23.

There are 2 anticipated spread footers, within the 10-ft sidewalk and within the 5-ft sidewalk.

Type 1 – Located within 10-ft sidewalk, Class II Concrete ($f'c = 3.4\text{ksi}$) =5.25 CY/EA , Reinforcing Steel = 350 LB/EA. Type 2 – Located within 5-ft sidewalk; Class II Concrete ($f'c = 3.4\text{ksi}$) =3.5 CY/EA; Reinforcing Steel = 375 LB/EA. The Pole Data Table on Sheet L-6 identifies which poles require the special foundations.

Q71. For project 6086960 please provide locations where 2-2" Schedule 40 PVC conduit is to be direct buried.

R71. See response to question 4 above.

NOTE: Items that are ~~struck through~~ are deleted. Items that are underlined have been added or changed. All other terms and conditions remain as stated in the IFBC.

End of Addendum

INSTRUCTIONS:

Receipt of this addendum must be acknowledged as instructed in the solicitation document. Failure to acknowledge receipt of this Addendum may result in the response being deemed non-responsive.

AUTHORIZED FOR RELEASE Chris Daley

BID FORM

(Submit in Triplicate)

44th Avenue East Extension Project - from 45th Street East to I-75
Based on Completion Time of 900 Calendar Days

PAY ITEM NO.	FDOT ITEM NUMBER	DESCRIPTION	44th Ave. East Braden River Segment QTY.	44th Ave. East- 44th Ave. Plaza East to I-75 QTY	TOTAL PROJECT QTY.	UNITS	BID PRICE PER UNIT (\$)	TOTAL BID PRICE (\$)
ROADWAY & BRIDGE								
1.	0101 1	Mobilization (Includes both projects)			1.00	LS		
2.	0102 1	Maintenance of Traffic (MOT), (Includes both Projects)			1.00	LS		
3.	102-14	Traffic Control Officer	60.00	32.00	92.00	HR		
4.	0102 60	WORK ZONE SIGN	335.00		335.00	ED		
5.	0102 74 1	CHANNELIZING DEVICE- TYPES I, II, DI, VP, DRUM, OR LCD	744.00		744.00	ED		
6.	0102 74 2	CHANNELIZING DEVICE, TYPE III, 6'	203.00		203.00	ED		
7.	0102 76	ARROW BOARD / ADVANCE WARNING ARROW PANEL	400.00		400.00	ED		
8.	0102 78	TEMPORARY RETROREFLECTIVE PAVEMENT MARKER	961.00		961.00	EA		
9.	0102 99	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	1,800.00		1,800.00	ED		
10.	0102107 1	TEMPORARY TRAFFIC DETECTION AND MAINTENANCE, INTERSECTION	200.00		200.00	ED		
11.	0103 1	TEMPORARY WORK STRUCTURE	1.00		1.00	LS		
12.	0104 10 3	SEDIMENT BARRIER	25,889.00	8,307.00	34,196.00	LF		
13.	0104 11	FLOATING TURBIDITY BARRIER	444.00		444.00	LF		
14.	0104 12	STAKED TURBIDITY BARRIER- NYLON REINFORCED PVC	76.00		76.00	LF		
15.	0104-15	SOIL TRACKING PREVENTION DEVICE		2.00	2.00	EA		
16.	0104 18	INLET PROTECTION SYSTEM	120.00	51.00	171.00	EA		
17.	0107 1	LITTER REMOVAL	17.80	5.28	23.08	AC		
18.	0107 2	MOWING	9.34	5.28	14.62	AC		
19.	0108 2	PROTECTION OF EXISTING STRUCTURES- VIBRATION MONITORING	1.00		1.00	LS		
20.	0110 1 1	CLEARING & GRUBBING	40.10	11.12	51.22	AC		
21.	0110 4 10	REMOVAL OF EXISTING CONCRETE	4,041.00	3,269.00	7,310.00	SY		
22.	0110 5	PLUGGING WATER WELLS, ARTESIAN	1.00		1.00	EA		
23.	0110 6	PLUGGING WATER WELLS, NON-ARTESIAN	1.00		1.00	EA		
24.	0120 1	REGULAR EXCAVATION	81,736.00	16,678.00	98,414.00	CY		

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25.	0120 4	SUBSOIL EXCAVATION	1,851.00		1,851.00	CY		
26.	0120 6	EMBANKMENT	68,998.00	3,707.00	72,705.00	CY		
27.	120-77	SURCHARGE EMBANKMENT	21,600.00			CY		
28.	0160 4	TYPE B STABILIZATION	101,690.00	23,500.00	125,190.00	SY		
29.	0180-72	RIGID PAVEMENT STABILIZED SUBBASE- SPECIAL WORK PLATFORM	14.00			CY		
30.	0210-2	LIMEROCK, NEW MATERIAL FOR REWORKING BASE	7.00			CY		
31.	0285701	OPTIONAL BASE, BASE GROUP 01	10,354.00		10,354.00	SY		
32.	0285709	OPTIONAL BASE, BASE GROUP 09	70,797.00	20,874.00	91,671.00	SY		
33.	0327 70 5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	4,591.00		4,591.00	SY		
34.	0327-70-6	MILLING EXIST ASPH PAVT, 1 1/2" AVG DEPTH		15,664.00	15,664.00	SY		
35.	0334 1 12	SUPERPAVE ASPHALTIC CONC, TRAFFIC B	647.70		647.70	TN		
36.	0334 1 13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	10,641.00	4,737.00	15,378.00	TN		
37.	0337 7 83	ASPHALT CONCRETE FRICTION COURSE, Traffic C, FC-12.5, PG 76-22, ARB	9,501.00	3,015.00	12,516.00	TN		
38.	0339 1	MISCELLANEOUS ASPHALT PAVEMENT	85.25		85.25	TN		
39.	0400 0 11	CONCRETE CLASS NS, GRAVITY WALL	318.00	75.00	393.00	CY		
40.	0400 1 2	CONCRETE CLASS I, ENDWALLS	8.00		8.00	CY		
41.	0400 2 2	CONCRETE CLASS II, ENDWALLS	12.50	0.00	12.50	CY		
42.	0400 2 4	CONC CLASS II, SUPERSTRUCTURE	4,851.20		4,851.20	CY		
43.	0400 2 10	CONCRETE CLASS II, APPROACH SLABS	248.60		248.60	CY		
44.	0400 4 5	CONCRETE CLASS IV, SUBSTRUCTURE	920.50		920.50	CY		
45.	0400 9	BRIDGE DECK GROOVING & PLANING, DECK 8.5'&>	13,368.90		13,368.90	SY		
46.	0400147	COMPOSITE NEOPRENE PADS	142.40		142.40	CF		
47.	0415 1 4	REINFORCING STEEL - SUPERSTRUCTURE	1,268,424.00		1,268,424.00	LB		
48.	0415 1 5	REINFORCING STEEL- SUBSTRUCTURE	220,858.00		220,858.00	LB		
49.	0415 1 9	REINFORCING STEEL- APPROACH SLABS	47,262.00		47,262.00	LB		
50.	0425 11	MODIFY EXISTING DRAINAGE STRUCTURE		3.00	3.00	EA		
51.	0425 1351	INLETS, CURB, TYPE P-5, <10'	19.00	24.00	43.00	EA		
52.	0425 1352	INLETS, CURB, TYPE P-5, >10'	2.00		2.00	EA		

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53.	0425-1-355	INLETS, CURB, TYPE P-5, PARTIAL		2.00	2.00	EA		
54.	0425 1361	INLETS, CURB, TYPE P-6, <10'	18.00	2.00	20.00	EA		
55.	0425-1-365	INLETS, CURB, TYPE P-6, PARTIAL		4.00	4.00	EA		
56.	0425 1451	INLETS, CURB, TYPE J-5, <10'	11.00	3.00	14.00	EA		
57.	0425 1452	INLETS, CURB, TYPE J-5, >10'	9.00		9.00	EA		
58.	0425 1461	INLETS, CURB, TYPE J-6, <10'	9.00	3.00	12.00	EA		
59.	0425 1462	INLETS, CURB, TYPE J-6, >10'	2.00		2.00	EA		
60.	0425-1-529	INLETS, DT BOT, TYPE C, MODIFY		1.00	1.00	EA		
61.	0425 1531	INLETS, DITCH BOTTOM, TYPE C MODIFIED- BACK OF SIDEWALK, <10'	20.00		20.00	EA		
62.	0425 1541	INLETS, DT BOT, TYPE D, <10'	3.00	2.00	5.00	EA		
63.	0425-1-549	INLETS, DT BOT, TYPE D, MODIFY		2.00	2.00	EA		
64.	0425 1551	INLETS, DT BOT, TYPE E, <10'	4.00		4.00	EA		
65.	0425 1581	INLETS, DT BOT, TYPE H, <10'	2.00		2.00	EA		
66.	0425 1891	INLETS, BARRIER WALL, <10'	5.00		5.00	EA		
67.	0425 1910	INLETS, CLOSED FLUME	4.00		4.00	EA		
68.	0425 2 41	MANHOLES, P-7, <10'	6.00		6.00	EA		
69.	0425-2-61	MANHOLES, P-8, < 10'		2.00	2.00	EA		
70.	0425-2-63	MANHOLES, P-8, PARTIAL		1.00	1.00	EA		
71.	0425 2 71	MANHOLES, J-7, <10'	9.00		9.00	EA		
72.	0425 2 72	MANHOLES, J-7, >10'	5.00		5.00	EA		
73.	0425-2-91	MANHOLES, J-8, < 10'		2.00	2.00	EA		
74.	0430174115	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 15"SD	63.00		63.00	LF		
75.	0430174215	PIPE CULVERT, OPTIONAL MATERIAL, OTHER SHAPE - ELLIP/ARCH, 15"SD	68.00		68.00	LF		
76.	0430175112	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 12"S/CD	53.00		53.00	LF		
77.	0430-175-115	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 15" S/CD		141.00	141.00	LF		
78.	0430175118	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 18"S/CD	4,228.00	2,679.00	6,907.00	LF		
79.	0430175124	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 24"S/CD	2,223.00	636.00	2,859.00	LF		

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80.	0430175130	PIPE CULVERT, OPT MATERIAL, ROUND, 30"S/CD	716.00	99.00	815.00	LF		
81.	0430175136	PIPE CULVERT, OPT MATERIAL, ROUND, 36"S/CD	1,329.00	360.00	1,689.00	LF		
82.	0430175142	PIPE CULVERT, OPT MATERIAL, ROUND, 42"S/CD	695.00		695.00	LF		
83.	0430175148	PIPE CULVERT, OPT MATERIAL, ROUND, 48"S/CD	1,234.00		1,234.00	LF		
84.	0430175154	PIPE CULVERT, OPT MATERIAL, ROUND, 54"S/CD	3,056.00		3,056.00	LF		
85.	0430175160	PIPE CULVERT, OPT MATERIAL, ROUND, 60"S/CD	1,516.00		1,516.00	LF		
86.	0430175218	PIPE CULVERT, OPTIONAL MATERIAL, OTHER-ELIP/ARCH, 18"S/CD	226.00	8.00	234.00	LF		
87.	0430175224	PIPE CULVERT, OPTIONAL MATERIAL, OTHER SHAPE-ELIP/ARCH, 24"S/CD	277.00	4.00	281.00	LF		
88.	0430175230	PIPE CULVERT, OPT MATERIAL, OTHER SHAPE - ELIP/ARCH, 30"S/CD	79.00		79.00	LF		
89.	0430175242	PIPE CULVERT, OPT MATERIAL, OTHER SHAPE - ELIP/ARCH, 42"S/CD	198.00		198.00	LF		
90.	0430175254	PIPE CULVERT, OPT MATERIAL, OTHER SHAPE - ELIP/ARCH, 54"S/CD	36.00		36.00	LF		
91.	0430982123	MITERED END SECTION, OPTIONAL ROUND, 15" CD		1.00	1.00	EA		
92.	0430982125	MITERED END SECTION, OPTIONAL ROUND, 18" CD	2.00	1.00	3.00	EA		
93.	0430982129	MITERED END SECTION, OPTIONAL ROUND, 24" CD	3.00	2.00	5.00	EA		
94.	0430-982-133	MITERED END SECTION, OPTIONAL ROUND, 30" CD	1	1.00	2.00	EA		
95.	0430-982-138	MITERED END SECTION, OPTIONAL ROUND, 36" CD		1.00	1.00	EA		
96.	430-982-140	MITERED END SECTION, OPTIONAL ROUND, 42" CD	1.00		1.00	EA		
97.	0430982142	MITERED END SECTION, OPTIONAL ROUND, 54" CD	2.00		2.00	EA		
98.	0430982143	MITERED END SECTION, OPTIONAL ROUND, 60" CD	1.00		1.00	EA		
99.	0430982625	MITERED END SECTION, OPTIONAL - ELLIPTICAL / ARCH, 18" CD	2.00		2.00	EA		
100.	0430982629	MITERED END SECTION, OPTIONAL - ELLIPTICAL / ARCH, 24" CD	1.00		1.00	EA		
101.	0430984123	MITERED END SECTION, OPTIONAL ROUND, 15" SD	6.00		6.00	EA		
102.	0430984625	MITERED END SECT, OPTIONAL - ELLIPTICAL / ARCH, 18" SD	4.00		4.00	EA		
103.	0450 2 45	PREST BEAMS: FLORIDA-I BEAM 45"	14,937.90		14,937.90	LF		
104.	0455 34 5	PRESTRESSED CONCRETE PILING, 24" SQ	13,278.90		13,278.90	LF		

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105.	0455143 5	TEST PILES-PRESTRESSED CONCRETE,24" SQ	1,217.00		1,217.00	LF		
106.	0458 1 11	BRIDGE DECK EXPANSION JOINT, NEW CONSTRUCTION, F&I POURED JOINT WITH BACKER ROD	689.00		689.00	LF		
107.	0459 71	PILES, POLYETHYLENE SHEETING	59.40		59.40	SY		
108.	0515-1-1	PIPE HANDRAIL - GUIDERAIL, STEEL		550.00	550.00	LF		
109.	0515 1 2	PIPE HANDRAIL - GUIDERAIL, ALUMINUM	1,068.00		1,068.00	LF		
110.	0515 42	PEDESTRIAN/BICYCLE RAILING, ALUMINUM, DOUBLE BULLET RAIL	3,124.80		3,124.80	LF		
111.	0519-78	BOLLARDS	4.00		4.00	EA		
112.	0520 1 10	CONCRETE CURB & GUTTER, TYPE F	16,912.00	4,145.00	21,057.00	LF		
113.	0520 1 11	CONCRETE CURB & GUTTER, VARIABLE HEIGHT TYPE F	7,681.00		7,681.00	LF		
114.	0520-2-2	CONCRETE CURB & GUTTER, TYPE AB		8,515.00	8,515.00	LF		
115.	0520 5 11	TRAFFIC SEPARATOR CONCRETE-TYPE I, 4' WIDE	1,386.00		1,386.00	LF		
116.	0520 5 16	TRAFFIC SEPARATOR CONCRETE- TYPE I, 8.5' WIDE	1,401.00		1,401.00	LF		
117.	0521 1	MEDIAN CONCRETE BARRIER WALL	3,557.00		3,557.00	LF		
118.	0521 5 1	CONCRETE TRAFFIC RAILING, BRIDGE 32" F - SHAPE	6,249.70		6,249.70	LF		
119.	0521 6 11	CONCRETE PARAPET, PEDESTRIAN/BICYCLE, 27" HEIGHT	3,124.80		3,124.80	LF		
120.	0521 72 5	SHOULDER CONCRETE BARRIER WALL, RIGID-CURB & GUTTER	3,720.00		3,720.00	LF		
121.	0522 1	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	5,901.00	4,484.00	10,385.00	SY		
122.	0522 2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	2,849.00		2,849.00	SY		
123.	0524-1-2	CONCRETE DITCH PAVEMENT, NON-REINFORCED, 4"		11.90	11.90	SY		
124.	0527 2	DETECTABLE WARNINGS	495.00	379.00	874.00	SF		
125.	0530 1	RIPRAP, SAND-CEMENT	55.00		55.00	CY		
126.	0530 3 3	RIPRAP- RUBBLE, BANK AND SHORE	1,558.00		1,558.00	TN		
127.	0530-74	BEDDING STONE	1,440.00		1,440.00	TN		
128.	0536 1 0	GUARDRAIL -ROADWAY, GENERAL/LOW SPEED TL-2	366.80		366.80	LF		
129.	0536 85 24	GUARDRAIL END ANCHORAGE ASSEMBLY- PARALLEL	1.00		1.00	EA		

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130.	0536 85 26	GUARDRAIL END ANCHORAGE ASSEMBLY- TYPE CRT	1.00		1.00	EA		
131.	0542-70	BUMPER GUARDS, CONCRETE	11.00		11.00	EA		
132.	0550-10-222	FENCING, TYPE B, 5.1-6.0, W/ VINYL COATING	983.00		983.00	LF		
133.	0570 1 1	PERFORMANCE TURF	26,152.00		26,152.00	SY		
134.	0570 1 2	PERFORMANCE TURF, SOD	19,369.00	18,550.00	37,919.00	SY		
135.	0710 11101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	3.34	3.11	6.45	GM		
136.	0710 11124	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR DIAGONAL OR CHEVRON, 18"	97.80		97.80	LF		
137.	0710 11125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	528.10	183.00	711.10	LF		
138.	0710 11131	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 10-30 OR 3-9 SKIP, 6" WIDE	52.79		52.79	GM		
139.	0710 11160	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, MESSAGE OR SYMBOL	2.00		2.00	EA		
140.	0710 11201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	55.40	2.947	58.347	GM		
141.	0710 11224	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID FOR DIAGONAL OR CHEVRON, 18"	680.20		680.20	LF		
SUBTOTAL (ROADWAY & BRIDGE ONLY)								
CONTRACT CONTINGENCY WORK FOR ROADWAY & BRIDGE (USED ONLY WITH COUNTY APPROVAL)							10%	
SIGNING AND PAVEMENT MARKING								
142.	0654 2 21	RECTANGULAR RAPID FLASHING BEACON, F&I- SOLAR POWERED, COMPLETE SIGN ASSEMBLY- SINGLE DIRECTION		2.00	2.00	AS		
143.	0654 2 22	RECTANGULAR RAPID FLASHING BEACON, FURNISH & INSTALL- SOLAR POWERED, COMPLETE ASSEMBLY- BACK TO BACK	2.00	1.00	3.00	AS		
144.	0700 1 11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	58.00	26.00	84.00	AS		
145.	0700 1 12	SINGLE POST SIGN, F&I GROUND MOUNT, 12-20 SF	6.00	1.00	7.00	AS		
146.	0700 1 13	SINGLE POST SIGN, F&I GROUND MOUNT, 21-30 SF	1.00	5.00	6.00	AS		
147.	0700 1 50	SINGLE POST SIGN, RELOCATE	4.00	1.00	5.00	AS		

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148.	0700 1 60	SINGLE POST SIGN, REMOVE	21.00		21.00	AS		
149.	0700-1-74	SINGLE POST SIGN, F&I CUSTOM, 31+ SF		1.00	1.00	AS		
150.	0700 2 12	MULTI- POST SIGN, F&I GROUND MOUNT, 12-20 SF	1.00		1.00	AS		
151.	0700 2 13	MULTI- POST SIGN, F&I GROUND MOUNT, 21-30 SF	1.00		1.00	AS		
152.	0700 2 14	MULTI- POST SIGN, F&I GROUND MOUNT, 31-50 SF	2.00	2.00	4.00	AS		
153.	0700 3601	SIGN PANEL, REMOVE, UP TO 12 SF	3.00	2.00	5.00	EA		
154.	0700 6 60	HIGHLIGHTED SIGN, REMOVE	3.00		3.00	AS		
155.	0705 10 1	OBJECT MARKER, TYPE 1	23.00	17.00	40.00	EA		
156.	0705 10 4	OBJECT MARKER, TYPE 4	6.00	3.00	9.00	EA		
157.	0705-11-1	DELINEATOR, FLEXIBLE TUBULAR, YELLOW - YELLOW		8.00	8.00	EA		
158.	0705 11 3	DELINEATOR, FLEXIBLE HIGH VISABILITY MEDIAN	14.00		14.00	EA		
159.	0706 3	RETRO-REFLECTIVE PAVEMENT MARKERS	1,159.00		1,159.00	EA		
160.	0710 11290	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	111.00	124.00	235.00	SF		
161.	0710-90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE		1.00	1.00	LS		
162.	0711 11123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	1,606.00	1,436.00	3,042.00	LF		
163.	0711 11124	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" FOR DIAGONALS AND CHEVRONS	500.00		500.00	LF		
164.	0711 11125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	395.00	290.00	685.00	LF		
165.	0711 11141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 GAP EXTENSION, 6"	0.616	0.502	1.118	GM		
166.	0711 11160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL	2.00		2.00	EA		
167.	0711 11170	THERMOPLASTIC, STANDARD, WHITE, ARROW	74.00	25.00	99.00	EA		
168.	0711 11224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	474.00	29.00	503.00	LF		
169.	0711 11241	THERMOPLASTIC, STANDARD, YELLOW, 2-4 DOTTED GUIDE LINE /6-10 DOTTED EXTENSION LINE, 6"	0.376	0.186	0.562	GM		
170.	0711 14125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	520.00	526.00	1,046.00	LF		
171.	0711 14160	THERMOPLASTIC, PREFORMED, WHITE, MESSAGE	35.00	8.00	43.00	EA		

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BID FORM

(Submit in Triplicate)

44th Avenue East Extension Project - from 45th Street East to I-75

Based on Completion Time of 900 Calendar Days

PAY ITEM NO.	FDOT ITEM NUMBER	DESCRIPTION	44th Ave. East Braden River Segment QTY.	44th Ave. East- 44th Ave. Plaza East to I-75 QTY	TOTAL PROJECT QTY.	UNITS	BID PRICE PER UNIT (\$)	TOTAL BID PRICE (\$)
172.	0711 14170	THERMOPLASTIC, PREFORMED, WHITE, ARROWS	35.00	8.00	43.00	EA		
173.	0711 16101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	8.653	3.263	11.916	GM		
174.	0711 16102	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 8"	0.087		0.087	GM		
175.	0711 16131	THERMOPLASTIC, OTHER SURFACES, WHITE, SKIP, 6",10-30 SKIP OR 3-9 LANE DROP	2.687	1.772	4.459	GM		
176.	0711 16201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	4.168	1.831	5.999	GM		
177.	0711 17	THERMOPLASTIC, REMOVE EXISTING THERMOPLASTIC PAVEMENT MARKINGS	44.00		44.00	SF		
178.	0713103101	PERMANENT TAPE, WHITE, SOLID, 6" FOR CONCRETE BRIDGES	1.182		1.182	GM		
179.	0713103131	PERMANENT TAPE, WHITE, SKIP/DOTTED, 6" FOR CONCRETE SURFACES	0.591		0.591	GM		
180.	0713103201	PERMANENT TAPE, YELLOW, SOLID, 6" FOR CONCRETE BRIDGES	0.591		0.591	GM		
181.	0713103331	PERMANENT TAPE, BLACK, SKIP/DOTTED, 6" FOR CONCRETE SURFACES	0.591		0.591	GM		
SUBTOTAL (SIGNING & PAVEMENT MARKING ONLY)								
CONTRACT CONTINGENCY WORK FOR SIGNING & PAVEMENT MARKING (USED ONLY WITH COUNTY APPROVAL)							10%	
SIGNALIZATION & LIGHTING								
182.	0630 2 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	23,394.00	11,611.00	35,005.00	LF		
183.	0630 2 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	3,697.00	2,544.00	6,241.00	LF		
184.	0630-2-14	CONDUIT, FURNISH & INSTALL, ABOVE GROUND		30.00	30.00	LF		
185.	0632 7 1	SIGNAL CABLE- NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	2.00	1.00	3.00	PI		
186.	0633 1121	FIBER OPTIC CABLE, F&I, UNDERGROUND,2-12 FIBERS	210.00	220.00	430.00	LF		
187.	633 1 122	FIBER OPTIC CABLE, F&I, UNDERGROUND,13-48 FIBERS		3,994.00	3,994.00	LF		
188.	0633 1123	FIBER OPTIC CABLE, F&I, UNDERGROUND,49-96 FIBERS	10,926.00		10,926.00	LF		
189.	0633 2 31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	56.00	8.00	64.00	EA		
190.	0633 3 11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	4.00	2.00	6.00	EA		

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**44th Avenue East Extension Project - from 45th Street East to I-75
 Based on Completion Time of 900 Calendar Days**

PAY ITEM NO.	FDOT ITEM NUMBER	DESCRIPTION	44th Ave. East Braden River Segment QTY.	44th Ave. East- 44th Ave. Plaza East to I-75 QTY	TOTAL PROJECT QTY.	UNITS	BID PRICE PER UNIT (\$)	TOTAL BID PRICE (\$)
191.	0633 3 12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	7.00	2.00	9.00	EA		
192.	0633 3 13	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED CONNECTOR ASSEMBLY	36.00		36.00	EA		
193.	633 3 15	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED PATCH PANEL		2.00	2.00	EA		
194.	0633 3 16	FIBER OPTIC CONNECTION HARDWARE, F&I, PATCH PANEL- FIELD TERMINATED	3.00		3.00	EA		
195.	0633 3 17	FIBER OPTIC CONNECTION HARDWARE, F&I, CONNECTOR PANEL	3.00		3.00	EA		
196.	0633 3 51	FIBER OPTIC CONNECTION HARDWARE, ADJUST/MODIFY SPLICE ENCLOSURE	1.00		1.00	EA		
197.	0633 3 52	FIBER OPTIC CONNECTION HARDWARE, ADJUST/MODIFY SPLICE TRAY	1.00		1.00	EA		
198.	0633 8 1	MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL	414.00	460.00	874.00	LF		
199.	0643-620	Wood Strain Poles, Remove	1.00		1.00	EA		
200.	0635 2 11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	172.00	72.00	244.00	EA		
201.	0635 2 12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	13.00	60.00	73.00	EA		
202.	0635 2 13	PULL & SPLICE BOX, F&I, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE	5.00	2.00	7.00	EA		
203.	0639 1122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	3.00	1.00	4.00	AS		
204.	0639 2 1	ELECTRICAL SERVICE WIRE	980.00	807.00	1,787.00	LF		
205.	0639 3 11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	5.00	1.00	6.00	EA		
206.	639 4 6	EMERGENCY GENERATOR- PORTABLE, INSTALL HOUSING ONLY		1.00	1.00	EA		
207.	0641 2 12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	4.00	1.00	5.00	EA		
208.	0641 2 13	PRESTRESSED CONCRETE POLE, F&I, TYPE P-III	4.00	1.00	5.00	EA		
209.	0646 1 11	ALUMINUM SIGNALS POLE, PEDESTAL	12.00	6.00	18.00	EA		
210.	649 21 6	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 50		3.00	3.00	EA		
211.	0649 31207	MAST ARM, F&I, WIND SPEED-130, SINGLE ARM, W/O LUMINAIRE-46	1.00		1.00	EA		

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**44th Avenue East Extension Project - from 45th Street East to I-75
 Based on Completion Time of 900 Calendar Days**

PAY ITEM NO.	FDOT ITEM NUMBER	DESCRIPTION	44th Ave. East Braden River Segment QTY.	44th Ave. East- 44th Ave. Plaza East to I-75 QTY	TOTAL PROJECT QTY.	UNITS	BID PRICE PER UNIT (\$)	TOTAL BID PRICE (\$)
212.	0649 31203	MAST ARM,F&I, WIND SPEED-130,SINGLE ARM,W/O LUMINAIRE-60	1.00		1.00	EA		
213.	0649 31204	MAST ARM,F&I, WIND SPEED-130,SINGLE ARM,W/O LUMINAIRE, ARM LENGTH 70.5	1.00		1.00	EA		
214.	0649 31205	MAST ARM,F&I, WIND SPEED-130,SINGLE ARM,W/O LUMINAIRE, ARM LENGTH 78	1.00		1.00	EA		
215.	0650 1 14	TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	9.00	6.00	15.00	AS		
216.	0650 1 16	TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 4 SECTION, 1 WAY	5.00	2.00	7.00	AS		
217.	0650 1 19	TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 5 SECTION CLUSTER, 1 WAY	5.00		5.00	AS		
218.	0650 1 60	TRAFFIC SIGNAL, REMOVE- POLES TO REMAIN	3.00		3.00	AS		
219.	0650 1 70	TRAFFIC SIGNAL, RELOCATE	2.00		2.00	AS		
220.	0653 1 11	COUNTDOWN, 1 WAY	12.00	6.00	18.00	AS		
221.	0660 3 11	VEHICLE DETECTION SYSTEM- MICROWAVE, FURNISH & INSTALL CABINET EQUIPMENT	4.00	2.00	6.00	EA		
222.	0660 3 12	VEHICLE DETECTION SYSTEM- MICROWAVE, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	6.00	4.00	10.00	EA		
223.	0660 4 11	VEHICLE DETECTION SYSTEM- VIDEO, FURNISH & INSTALL CABINET EQUIPMENT	1.00		1.00	EA		
224.	0660 4 12	VEHICLE DETECTION SYSTEM- VIDEO, FURNISH & INSTALL ABOVE GROUND EQUIPMENT	4.00		4.00	EA		
225.	0660 4 52	VEHICLE DETECTION SYSTEM- VIDEO, ADJUST/MODIFY ABOVE GROUND EQUIPMENT	1.00		1.00	EA		
226.	0660 6121	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH, FURNISH & INSTALL, CABINET EQUIPMENT	2.00	1.00	3.00	EA		
227.	0660 6122	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	2.00	1.00	3.00	EA		
228.	0663 1 111	SIGNAL PRIORITY AND PREEMPTION SYSTEM, F&I, OPTICAL, CABINET ELECTRONICS		1.00	1.00	EA		
229.	0663 1 112	SIGNAL PRIORITY AND PREEMPTION SYSTEM, F&I, OPTICAL, DETECTOR		3.00	3.00	EA		
230.	0665 1 11	PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD	12.00	6.00	18.00	EA		
231.	0670 5112	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA, 2 PREEMPTION	1.00	1.00	2.00	AS		

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**44th Avenue East Extension Project - from 45th Street East to I-75
 Based on Completion Time of 900 Calendar Days**

PAY ITEM NO.	FDOT ITEM NUMBER	DESCRIPTION	44th Ave. East Braden River Segment QTY.	44th Ave. East- 44th Ave. Plaza East to I-75 QTY	TOTAL PROJECT QTY.	UNITS	BID PRICE PER UNIT (\$)	TOTAL BID PRICE (\$)
232.	0670 5400	TRAFFIC CONTROLLER ASSEMBLY, MODIFY	1.00		1.00	AS		
233.	0676 2122	ITS CABINET, FURNISH & INSTALL, POLE MOUNT WITH SUNSHIELD, 336S, 24" W X 46" H X 22" D	4.00	1.00	5.00	EA		
234.	0682 1113	ITS CCTV CAMERA, F&I, DOME PTZ ENCLOSURE - PRESSURIZED, IP, HIGH DEFINITION	4.00	1.00	5.00	EA		
235.	0684 1 1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	3.00	2.00	5.00	EA		
236.	0684 2 1	DEVICE SERVER, FURNISH & INSTALL	2.00		2.00	EA		
237.	684 6 11	WIRELESS COMMUNICATION DEVICE, FURNISH & INSTALL ETHERNET ACCESS POINT		1.00	1.00	EA		
238.	684 6 12	WIRELESS COMMUNICATION DEVICE, FURNISH & INSTALL ETHERNET SUBSCRIBER UNIT		1.00	1.00	EA		
239.	685 1 11	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, LINE INTERACTIVE		1.00	1.00	EA		
240.	0685112	UNINTERRUPTIBLE POWER SOURCE (F&I) ONLINE/DOUBLE CONVERSION	4.00	1.00	5.00	EA		
241.	0685113	UNINTERRUPTIBLE POWER SOURCE (F&I) LINE INTERACTIVE WITH CABINET	1.00		1.00	EA		
242.	0700 3201	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, UP TO 12 SF	2.00	2.00	4.00	EA		
243.	0700 5 22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, 12-18 SF	4.00	3.00	7.00	EA		
244.	0700 5 50	INTERNALLY ILLUMINATED SIGN, RELOCATE	1.00		1.00	EA		
245.	0715 1 12	LIGHTING CONDUCTORS, F&I, INSULATED, NO.8 - 6	90,954.00	34,727.00	125,681.00	LF		
246.	0715 1 13	LIGHTING CONDUCTORS, F&I, INSULATED, NO 4 TO NO 2	987.00	500.00	1,487.00	LF		
247.	0715-4-13	LIGHT POLE COMPLETE, FURNISH & INSTALL STANDARD POLE STANDARD FOUNDATION, 40' MOUNTING HEIGHT		22.00	22.00	EA		
248.	0715 4121	LIGHT POLE COMPLETE, F&I, WIND SPEED 130, POLE HEIGHT 40'	55.00		55.00	EA		
249.	0715-4-23	LIGHT POLE COMPLETE, FURNISH & INSTALL STANDARD POLE SPECIAL FOUNDATION, 40' MOUNTING HEIGHT		31.00	31.00	EA		
250.	0715 5 12	LUMINAIRE & BRACKET ARM, F&I, GALVANIZED STEEL	1.00		1.00	EA		
251.	0715 7 11	LOAD CENTER, F&I, SECONDARY VOLTAGE	2.00	1.00	3.00	EA		

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44th Avenue East Extension Project - from 45th Street East to I-75
Based on Completion Time of 900 Calendar Days

PAY ITEM NO.	FDOT ITEM NUMBER	DESCRIPTION	44th Ave. East Braden River Segment QTY.	44th Ave. East- 44th Ave. Plaza East to I-75 QTY	TOTAL PROJECT QTY.	UNITS	BID PRICE PER UNIT (\$)	TOTAL BID PRICE (\$)
252.	0715-11-111	LUMINAIRE, F&I, ROADWAY, COBRAHEAD		2.00	2.00	EA		
253.	0715500 1	POLE CABLE DISTRIBUTION SYSTEM, CONVENTIONAL	100.00	53.00	153.00	EA		
254.	0715500 3	POLE CABLE DISTRIBUTION SYSTEM, WALL MOUNT	20.00		20.00	EA		
255.	0715512140	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, DOUBLE ARM SHOULDER MOUNT, ALUMINUM, 40'	20.00		20.00	EA		
256.	0715515140	LIGHT POLE COMPLETE- SEPCIAL DESIGN, F&I, SINGLE ARM BRIDGE MOUNT, NON-STD ALUMINUM, 40'	20.00		20.00	EA		
SUBTOTAL (SIGNALIZATION & LIGHTING ONLY)								
CONTRACT CONTINGENCY WORK FOR SIGNALIZATION & LIGHT8ING (USED ONLY WITH COUNTY APPROVAL)							10%	
POTABLE WATER								
GENERAL								
257.	UG1	UG-1 Unsuitable Material Excavation Below Grade	500.00		500.00	CY		
258.	UG2	UG-2 Select Backfill Below Grade	500.00		500.00	CY		
259.	UG3	UG-3 Crushed Stone Pipe Bedding	250.00		250.00	CY		
260.	UG4	UG-4 Permanent Roadway Restoration	500.00		500.00	SY		
261.	UG5	UG-5 Temporary Roadway Restoration	500.00		500.00	SY		
262.	UG6	UG-6 Patch Roadway Impacted by Pipe Restraint Installation	200.00		200.00	SY		
263.	UG7	UG-7 Asphalt Overlay	2,000.00		2,000.00	SY		
264.	UG8	UG-8 Driveway Restoration	100.00		100.00	SY		
265.	UG9	UG-9 Sod Restoration	1,500.00		1,500.00	SY		
266.	UG10	UG-10 Tree Replacement	16.00		16.00	EA		
POTABLE WATER INSTALL								
UW-1 Water Main by Open Cut								
267.		UW-1A 36" DIP PO	1,957.00		1,957.00	LF		
268.		UW-1B 36" DIP RJ	2,838.00		2,838.00	LF		
269.		UW-1C 30" DIP PO	1,000.00		1,000.00	LF		
270.		UW-1D 30" DIP RJ	775.00		775.00	LF		
271.		UW-1E 24" DIP RJ	15.00		15.00	LF		
272.		UW-1F 12" DIP RJ	225.00		225.00	LF		

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273.		UW-1G 8" DIP PO	40.00		40.00	LF		
274.		UW-1H 8" DIP RJ	320.00		320.00	LF		
275.		UW-1I 6" DIP RJ	158.00		158.00	LF		
276.		UW-1J 4" DIP RJ	60.00		60.00	LF		
277.		UW-1K 8" PVC Pipe PO	3,477.00		3,477.00	LF		
278.		UW-1L 8" PVC Pipe RJ	552.00		552.00	LF		
279.		UW-1M 6" PVC Pipe RJ	80.00		80.00	LF		
		UW-2 Ductile Iron Water Main Fittings						
280.		UW-2A 36" 90 Degree Bend	3.00		3.00	EA		
281.		UW-2B 36" 45 Degree Bend	25.00		25.00	EA		
282.		UW-2C 36" 22.5 Degree Bend	19.00		19.00	EA		
283.		UW-2D 36" 11.25 Degree Bend	4.00		4.00	EA		
284.		UW-2E 36" x 36" Tee	2.00		2.00	EA		
285.		UW-2F 36" x 30" Tee	1.00		1.00	EA		
286.		UW-2G 36" x 24" Tee	1.00		1.00	EA		
287.		UW-2H 36" x 12" Tee	1.00		1.00	EA		
288.		UW-2I 36" x 8" Tee	2.00		2.00	EA		
289.		UW-2J 36" x 6" Tee	8.00		8.00	EA		
290.		UW-2K 36" Cap	2.00		2.00	EA		
291.		UW-2L 30" 45 Degree Bend	12.00		12.00	EA		
292.		UW-2M 30" 22.5 Degree Bend	2.00		2.00	EA		
293.		UW-2N 30" 11.25 Degree Bend	2.00		2.00	EA		
294.		UW-2O 30" x 8" Reducer	1.00		1.00	EA		
295.		UW-2P 30" x 30" Tee	1.00		1.00	EA		
296.		UW-2Q 30" Cap	2.00		2.00	EA		
297.		UW-2R 24" Cap	1.00		1.00	EA		
298.		UW-2S 12" 45 Degree Bend	4.00		4.00	EA		
299.		UW-2T 12" 11.25 Degree Bend	1.00		1.00	EA		
300.		UW-2U 12" x 6" Tee	1.00		1.00	EA		

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301.		UW-2V 12" Cap	1.00		1.00	EA		
302.		UW-2W 10" x 8" Reducer	3.00		3.00	EA		
303.		UW-2X 8" 90 Degree Bend	2.00		2.00	EA		
304.		UW-2Y 8" 45 Degree Bend	19.00		19.00	EA		
305.		UW-2Z 8" 22.5 Degree Bend	6.00		6.00	EA		
306.		UW-2AA 8" 11.25 Degree Bend	9.00		9.00	EA		
307.		UW-2AB 8" x 6" Reducer	1.00		1.00	EA		
308.		UW-2AC 8" x 8" Tee	5.00		5.00	EA		
309.		UW-2AD 8" x 6" Tee	8.00		8.00	EA		
310.		UW-2AE 8" x 4" Tee	1.00		1.00	EA		
311.		UW-2AF 8" Cap	3.00		3.00	EA		
312.		UW-2AG 6" 90 Degree Bend	5.00		5.00	EA		
313.		UW-2AH 6" 45 Degree Bend	2.00		2.00	EA		
314.		UW-2AI 6" x 2" Reducer	1.00		1.00	EA		
315.		UW-2AJ 6" x 6" Tee	5.00		5.00	EA		
316.		UW-2AK 6" Cap	3.00		3.00	EA		
317.		UW-2AL 4" Cap	1.00		1.00	EA		
318.		UW-2AM 30" x 6" Tee	1.00		1.00	EA		
319.		UW-3 2" PVC Water Main	170.00		170.00	LF		
		UW-4 36" DIP Water Main on New Bridge						
320.		UW-4A 36" DIP/RJ	1,600.00		1,600.00	LF		
321.		UW-4B 36" Expansion Joint	6.00		6.00	EA		
322.		UW-4C Combination Air Valve	1.00		1.00	EA		
323.		UW-4D 36" Pipe Supports	88.00		88.00	EA		
324.		UW-4E Concrete Piles	840.00		840.00	LF		
325.		UW-4F Gravity Thrust Block	125.00		125.00	CY		
326.		UW-4G Pile Cap	31.00		31.00	CY		
327.		UW-4H Concrete Slab	2.00		2.00	CY		
328.		UW-5 10" HDPE by Horizontal Directional Drill (HDD)	220.00		220.00	LF		

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329.		UW-6 Temporary 6" Water Main	1.00		1.00	LS		
		UW-7 Butterfly Valve						
330.		UW-7A 36" Butterfly Valve	7.00		7.00	EA		
331.		UW-7B 30" Butterfly Valve	3.00		3.00	EA		
332.		UW-7C 24" Butterfly Valve	1.00		1.00	EA		
		UW-8 Gate Valve						
333.		UW-8A 12" Gate Valve	2.00		2.00	EA		
334.		UW-8B 8" Gate Valve	11.00		11.00	EA		
335.		UW-8C 6" Gate Valve	9.00		9.00	EA		
336.		UW-8D 4" Gate Valve	1.00		1.00	EA		
337.		UW-8E 2" Gate Valve	1.00		1.00	EA		
338.		UW-9 8" Insertion Valve	3.00		3.00	EA		
339.		UW-10 Fire Hydrant Assembly	15.00		15.00	EA		
		UW-11 Air Release Valves						
340.		UW-11A Above Ground Air Release Valve Assembly	6.00		6.00	EA		
341.		UW-11B Manual Air Release Valve Connection	1.00		1.00	EA		
		UW-12 Water Services						
342.		UW-12A Long Side on 36" Water Main	2.00		2.00	EA		
343.		UW-12B Long Side on 36" Water Main w/ Meter Box Assembly	2.00		2.00	EA		
344.		UW-12C Short Side on 36" Water Main w/ Meter Box Assembly	4.00		4.00	EA		
345.		UW-12D Short Side on 30" Water Main	1.00		1.00	EA		
346.		UW-12E Long Side Service	10.00		10.00	EA		
347.		UW-12F Short Side Service	1.00		1.00	EA		
348.		UW-12G Short Side Service w/ Meter Box Assembly	7.00		7.00	EA		
349.		UW-12H New Short Side Service on 36" WM with Meter Box Assembly & Backflow Preventer (King Property, Sta 216+32)	1.00		1.00	EA		

Bidder Name: _____

Authorized Signature: _____

BID FORM

(Submit in Triplicate)

44th Avenue East Extension Project - from 45th Street East to I-75
Based on Completion Time of 900 Calendar Days

PAY ITEM NO.	FDOT ITEM NUMBER	DESCRIPTION	44th Ave. East Braden River Segment QTY.	44th Ave. East- 44th Ave. Plaza East to I-75 QTY	TOTAL PROJECT QTY.	UNITS	BID PRICE PER UNIT (\$)	TOTAL BID PRICE (\$)
350.		UW-12I New Short Side Service on 4" WM with Meter Box Assembly & Backflow Preventer (King Property, Sta 917+80)	1.00		1.00	EA		
351.		UW-13 Backflow Preventer	4.00		4.00	EA		
352.		UW-14 Reconnect Water Services for King Property-Allowance	1.00		1.00	LS	\$ 20,000.00	\$20,000.00
353.		UW-15 Jack & Bore with Steel Casing	75.00		75.00	LF		
354.		UW-16 Elwood I Pump Station Interconnection	1.00		1.00	LS		
		UW-17 Pipeline Interconnections						
355.		UW-17A 51st Street E 36" Interconnection	1.00		1.00	LS		
356.		UW-17B 51st Street E 30" Interconnection	1.00		1.00	LS		
357.		UW-17C Braden River Church Interconnection	1.00		1.00	LS		
		UW-18 Restrain Existing Pipe Joints						
358.		UW-18A Restrain Existing 36" PCCP Pipe Joints	16.00		16.00	EA		
359.		UW-18B Restrain Existing 30" DIP Pipe Joints	11.00		11.00	EA		
360.		UW-18C Restrain Existing 8" Pipe Joints	18.00		18.00	EA		
361.		UW-18D Restrain Existing 6" Pipe Joints	5.00		5.00	EA		
362.		UW-18E Restrain Existing 4" Pipe Joints	3.00		3.00	EA		
		POTABLE WATER REMOVE						
		UWR-1 Remove and Dispose of Existing Pipe						
363.		UWR-1A 36" PCCP	3,020.00		3,020.00	LF		
364.		UWR-1B 36" DIP	67.00		67.00	LF		
365.		UWR-1C 30" DIP	1,705.00		1,705.00	LF		
366.		UWR-1D 8" PVC	5,410.00		5,410.00	LF		
367.		UWR-1E 6" PVC	305.00		305.00	LF		
368.		UWR-1F 4" PVC	250.00		250.00	LF		
369.		UWR-2 Remove and Dispose of Existing Thrust Block at Sta 507+00	100.00		100.00	TON		
370.		UWR-3 Remove and Dispose of Temporary 6" Water Main	1.00		1.00	LS		
371.		UWR-4 Remove and Dispose of Existing Water Services	31.00		31.00	EA		

Bidder Name: _____

Authorized Signature: _____

BID FORM

(Submit in Triplicate)

44th Avenue East Extension Project - from 45th Street East to I-75
Based on Completion Time of 900 Calendar Days

PAY ITEM NO.	FDOT ITEM NUMBER	DESCRIPTION	44th Ave. East Braden River Segment QTY.	44th Ave. East- 44th Ave. Plaza East to I-75 QTY	TOTAL PROJECT QTY.	UNITS	BID PRICE PER UNIT (\$)	TOTAL BID PRICE (\$)
372.		UWR-5 Remove and Salvage Existing Fire Hydrant Assembly	6.00		6.00	EA		
SUBTOTAL (POTABLE WATER ONLY)								
CONTRACT CONTINGENCY WORK FOR POTABLE WATER (USED ONLY WITH COUNTY APPROVAL)							10%	
WASTEWATER								
WASTEWATER FORCE MAIN INSTALL								
UWW-1 DIP Force Main by Open Cut								
373.		UWW-1A 10" DIP PO	280.00		280.00	LF		
374.		UWW-1B 10" DIP RJ	113.00		113.00	LF		
375.		UWW-1C 8" DIP PO	1,508.00		1,508.00	LF		
376.		UWW-1D 8" DIP RJ	587.00		587.00	LF		
377.		UWW-1E 6" DIP PO	85.00		85.00	LF		
378.		UWW-1F 6" DIP RJ	230.00		230.00	LF		
379.		UWW-1G 4" DIP RJ	233.00		233.00	LF		
380.		UWW-1H 3" DIP RJ	10.00		10.00	LF		
381.		UWW-1I 10" PVC PO	790.00		790.00	LF		
382.		UWW-1J 10" PVC RJ	75.00		75.00	LF		
383.		UWW-1K 8" PVC PO	1,049.00		1,049.00	LF		
384.		UWW-1L 8" PVC RJ	626.00		626.00	LF		
385.		UWW-1M 2" PVC	125.00		125.00	LF		
UWW-2 Ductile Iron Force Main Fittings								
386.		UWW-2A 10" 45 Degree Bend	5.00		5.00	EA		
387.		UWW-2B 10" x 8" Reducer	1.00		1.00	EA		
388.		UWW-2C 10" x 8" Wye	1.00		1.00	EA		
389.		UWW-2D 10" x 4" Tee	1.00		1.00	EA		
390.		UWW-2E 8" 45 Degree Bend	37.00		37.00	EA		
391.		UWW-2F 8" 22.5 Degree Bend	2.00		2.00	EA		
392.		UWW-2G 8" 11.25 Degree Bend	1.00		1.00	EA		
393.		UWW-2H 8" x 8" Tee	1.00		1.00	EA		

Bidder Name: _____

Authorized Signature: _____

BID FORM

(Submit in Triplicate)

**44th Avenue East Extension Project - from 45th Street East to I-75
 Based on Completion Time of 900 Calendar Days**

PAY ITEM NO.	FDOT ITEM NUMBER	DESCRIPTION	44th Ave. East Braden River Segment QTY.	44th Ave. East- 44th Ave. Plaza East to I-75 QTY	TOTAL PROJECT QTY.	UNITS	BID PRICE PER UNIT (\$)	TOTAL BID PRICE (\$)
394.		UWW-2I 8" x 6" Tee	1.00		1.00	EA		
395.		UWW-2J 8" Cap	2.00		2.00	EA		
396.		UWW-2K 6" 45 Degree Bend	9.00		9.00	EA		
397.		UWW-2L 6" 22.5 Degree Bend	1.00		1.00	EA		
398.		UWW-2M 6" 11.25 Degree Bend	1.00		1.00	EA		
399.		UWW-2N 6" Cap	2.00		2.00	EA		
400.		UWW-2O 4" 90 Degree Bend	2.00		2.00	EA		
401.		UWW-2P 4" 45 Degree Bend	8.00		8.00	EA		
402.		UWW-2Q 4" x 3" Reducer	1.00		1.00	EA		
403.		UWW-2R 4" Cap	2.00		2.00	EA		
404.		UWW-2S 3" 90 Degree Bend	2.00		2.00	EA		
		UWW-3 8" DIP Dry Force Main on New Bridge						
405.		UWW-3A 8" DIP/RJ	1,600.00		1,600.00	LF		
406.		UWW-3B 8" Expansion Joint	6.00		6.00	EA		
407.		UWW-3C Combination Air Valve	1.00		1.00	EA		
408.		UWW-3D 8" Pipe Supports	88.00		88.00	EA		
409.		UWW-4 2" HDPE Force Main by HDD	205.00		205.00	LF		
		UWW-5 Gate Valve						
410.		UWW-5A 8" Gate Valve	6.00		6.00	EA		
411.		UWW-5B 6" Gate Valve	1.00		1.00	EA		
412.		UWW-5C 4" Gate Valve	1.00		1.00	EA		
413.		UWW-6 8" Force Main Bypass Assembly	2.00		2.00	EA		
414.		UWW-7 8" Force Main Pigging Port Assembly	2.00		2.00	EA		
415.		UWW-8 8" Force Main Check Valve Assembly	1.00		1.00	EA		
		UWW-9 Air Release Valves						
416.		UWW-9A Above Ground Air Release Valve	2.00		2.00	EA		
417.		UWW-9B Below Grade Air Release Valve	1.00		1.00	EA		
		UWW-10 Tapping Sleeve and Valve						
418.		UWW-10A 20" x 10" Tapping Sleeve and Valve	1.00		1.00	EA		

Bidder Name: _____

Authorized Signature: _____

BID FORM

(Submit in Triplicate)

44th Avenue East Extension Project - from 45th Street East to I-75

Based on Completion Time of 900 Calendar Days

PAY ITEM NO.	FDOT ITEM NUMBER	DESCRIPTION	44th Ave. East Braden River Segment QTY.	44th Ave. East- 44th Ave. Plaza East to I-75 QTY	TOTAL PROJECT QTY.	UNITS	BID PRICE PER UNIT (\$)	TOTAL BID PRICE (\$)
419.		UWW-10B 20" x 4" Tapping Sleeve and Valve	2.00		2.00	EA		
420.		UWW-11 Cap 8" Force Main at Old Caruso Road	1.00		1.00	LS		
421.		UWW-12 Offset Existing 20" DIP Force Main	2.00		2.00	EA		
422.		UWW-13 Concrete Encasement of Existing 20" DIP Force	8.00		8.00	EA		
423.		UWW-14 Reset Manhole Frame and Cover	1.00		1.00	EA		
424.		UWW-15 Grinder Lift Station at Elwood I PS	1.00		1.00	LS		
		UWW-16 Restrain Existing Pipe Joints						
425.		UWW-16A Restrain Existing 8" Pipe Joints	2.00		2.00	EA		
426.		UWW-16B Restrain Existing 3" Pipe Joints	1.00		1.00	EA		
		WASTEWATER GRAVITY SEWER INSTALL						
		UWW-17 Connect to Existing Manhole						
427.		UWW-17A 8" Sanitary Connection	1.00		1.00	EA		
428.		UWW-17B 2" Force Main Connection	1.00		1.00	EA		
429.		UWW-18 8" PVC Gravity Sewer Pipe by Open Cut	565.00		565.00	LF		
430.		UWW-19 Sanitary Sewer Manhole & Cover	1.00		1.00	EA		
431.		UWW-20 Apply Spray Liner to Existing Manhole	3.00		3.00	EA		
		WASTEWATER REMOVE						
		UWWR-1 Remove and Dispose of Existing Force Main						
432.		UWWR-1A 8" PVC	1,320.00		1,320.00	LF		
433.		UWWR-1B 6" PVC	140.00		140.00	LF		
434.		UWWR-1C 3" PVC	10.00		10.00	LF		
435.		UWWR-2 Remove and Dispose of Manhole with CV & AR	1.00		1.00	EA		
436.		UWWR-3 Remove and Dispose of Septic System at Elwo	1.00		1.00	EA		
SUBTOTAL (WASTEWATER ONLY)								
CONTRACT CONTINGENCY WORK FOR WASTEWATER (USED ONLY WITH COUNTY APPROVAL)							10%	
RECLAIMED WATER								
		URW-1 Reclaimed Water Main by Open Cut						
437.		URW-1A 12" DIP RJ	80.00		80.00	LF		
438.		URW-1B 8" DIP RJ	130.00		130.00	LF		

Bidder Name: _____

Authorized Signature: _____

BID FORM

(Submit in Triplicate)

44th Avenue East Extension Project - from 45th Street East to I-75

Based on Completion Time of 900 Calendar Days

PAY ITEM NO.	FDOT ITEM NUMBER	DESCRIPTION	44th Ave. East Braden River Segment QTY.	44th Ave. East- 44th Ave. Plaza East to I-75 QTY	TOTAL PROJECT QTY.	UNITS	BID PRICE PER UNIT (\$)	TOTAL BID PRICE (\$)
439.		URW-1C 6" DIP RJ	90.00		90.00	LF		
		URW-2 Ductile Iron Reclaimed Water Main Fittings						
440.		URW-2A 12" 45 Degree Bend	3.00		3.00	EA		
441.		URW-2B 12" x 6" Reducer	1.00		1.00	EA		
442.		URW-2C 12" x 12" Tee	1.00		1.00	EA		
443.		URW-2D 12" Cap	1.00		1.00	EA		
444.		URW-2E 8" 45 Degree Bend	6.00		6.00	EA		
445.		URW-2F 8" Cap	2.00		2.00	EA		
446.		URW-2G 6" 45 Degree Bend	4.00		4.00	EA		
447.		URW-2H 6" Cap	2.00		2.00	EA		
		URW-3 Gate Valve						
448.		URW-3A 12" Gate Valve	1.00		1.00	EA		
449.		URW-3B 6" Gate Valve	1.00		1.00	EA		
450.		URW-4 Reclaimed Water Fire Hydrant Assembly	5.00		5.00	EA		
		URW-5 Reclaimed Water Services						
451.		URW-5A Single RW Service - Replace Service Line	4.00		4.00	EA		
452.		URW-5B Single RW Service - Replace Service Line & Meter Box	4.00		4.00	EA		
453.		URW-5C Double RW Service - Replace Service Line	4.00		4.00	EA		
454.		URW-5D Double RW Service - Replace Service Line & Meter Box	1.00		1.00	EA		
		RECLAIMED WATER REMOVE						
455.		URWR-1 Remove and Dispose of Existing Reclaimed Water Services	13.00		13.00	EA		
456.		URWR-2 Remove and Salvage Existing Reclaimed water FHA	1.00		1.00	EA		
SUBTOTAL (RECLAIMED WATER ONLY)								
CONTRACT CONTINGENCY WORK FOR RECLAIMED WATER (USED ONLY WITH COUNTY APPROVAL)							10%	
TOTAL BASE BID - Based on Completion Time of <u>900</u> Calendar Days								

Bidder Name: _____

Authorized Signature: _____

BID FORM

(Submit in Triplicate)

44th Avenue East Extension Project - from 45th Street East to I-75

Based on Completion Time of 900 Calendar Days

PAY ITEM NO.	FDOT ITEM NUMBER	DESCRIPTION	44th Ave. East Braden River Segment QTY.	44th Ave. East- 44th Ave. Plaza East to I-75 QTY	TOTAL PROJECT QTY.	UNITS	BID PRICE PER UNIT (\$)	TOTAL BID PRICE (\$)
		CONTRACT CONTINGENCY WORK (USED ONLY WITH COUNTY APPROVAL)					10%	
TOTAL OFFER FOR BID with Contract Contingency - Based on Completion Time of <u>900</u> Calendar Days								

Bidder Name: _____

Authorized Signature: _____



Southwest Florida Water Management District

2379 Broad Street, Brooksville, Florida 34604-6899
(352) 796-7211 or 1-800-423-1476 (FL only)
SUNCOM 628-4150 TDD only 1-800-231-6103 (FL only)
On the Internet at: WaterMatters.org

An Equal
Opportunity
Employer

Bartow Service Office
170 Century Boulevard
Bartow, Florida 33830-7700
(863) 534-1448 or
1-800-492-7862 (FL only)

Sarasota Service Office
6750 Fruitville Road
Sarasota, Florida 34240-9711
(941) 377-3722 or
1-800-320-3503 (FL only)

Tampa Service Office
7601 Highway 301 North
Tampa, Florida 33637-6759
(813) 985-7481 or
1-800-836-0797 (FL only)

December 03, 2019

Manatee County Public Works
Attn: Sia Mollanazar, P.E.
1022 26th Ave E.
Bradenton, FL 34208

Subject: **Notice of Intended Agency Action - Approval
ERP Individual Construction Major Modification**

Project Name: 44th Ave. East from 44th Ave. Plaza East to West of I-75
App ID/Permit No: 789958 / 43005641.081
County: Manatee
Sec/Twp/Rge: S12/T35S/R18E, S11/T35S/R18E, S02/T35S/R18E

Dear Permittee(s):

The Southwest Florida Water Management District (District) has completed its review of the application for Environmental Resource Permit modification. Based upon a review of the information you have submitted, the District hereby gives notice of its intended approval of the application.

The File of Record associated with this application can be viewed at <http://www18.swfwmd.state.fl.us/erp/erp/search/ERPSearch.aspx> and is also available for inspection Monday through Friday, except for District holidays, from 8:00 a.m. through 5:00 p.m. at the District's Tampa Service Office, 7601 U.S. Highway 301 North, Tampa, Florida 33637.

If you have any questions or concerns regarding the application or any other information, please contact the Environmental Resource Permit Bureau in the Tampa Service Office.

Sincerely,

David Kramer, P.E.
Bureau Chief
Environmental Resource Permit Bureau
Regulation Division

cc: Arturo Zapata
Jason Starr P.E., HDR Engineering, Inc.



Southwest Florida Water Management District

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7601 Highway 301 North
Tampa, Florida 33637-6759
(813) 985-7481 or
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December 03, 2019

Manatee County Public Works
Attn: Sia Mollanazar, P.E.
1022 26th Ave E.
Bradenton, FL 34208

Subject: **Notice of Agency Action - Approval
ERP Individual Construction Major Modification**

Project Name: 44th Ave. East from 44th Ave. Plaza East to West of I-75
App ID/Permit No: 789958 / 43005641.081
County: Manatee
Sec/Twp/Rge: S12/T35S/R18E, S11/T35S/R18E, S02/T35S/R18E

Dear Permittee(s):

The Southwest Florida Water Management District (District) is in receipt of your application for the Environmental Resource Permit modification. Based upon a review of the information you submitted, the application is approved.

Please refer to the attached Notice of Rights to determine any legal rights you may have concerning the District's agency action on the permit application described in this letter.

If approved construction plans are part of the permit, construction must be in accordance with these plans. These drawings are available for viewing or downloading through the District's Application and Permit Search Tools located at www.WaterMatters.org/permits.

The District's action in this matter only becomes closed to future legal challenges from members of the public if such persons have been properly notified of the District's action and no person objects to the District's action within the prescribed period of time following the notification. The District does not publish notices of agency action. If you wish to limit the time within which a person who does not receive actual written notice from the District may request an administrative hearing regarding this action, you are strongly encouraged to publish, at your own expense, a notice of agency action in the legal advertisement section of a newspaper of general circulation in the county or counties where the activity will occur. Publishing notice of agency action will close the window for filing a petition for hearing. Legal requirements and instructions for publishing notices of agency action, as well as a noticing form that can be used, are available from the District's website at www.WaterMatters.org/permits/noticing. If you publish notice of agency action, a copy of the affidavit of publication provided by the newspaper should be sent to the District's Tampa Service Office for retention in this permit's File of Record.

**SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
ENVIRONMENTAL RESOURCE
INDIVIDUAL CONSTRUCTION MAJOR MODIFICATION
PERMIT NO. 43005641.081**

EXPIRATION DATE: December 03, 2024

PERMIT ISSUE DATE: December 03, 2019

This permit is issued under the provisions of Chapter 373, Florida Statutes, (F.S.), and the Rules contained in Chapter 62-330, Florida Administrative Code, (F.A.C.). The permit authorizes the Permittee to proceed with the construction of a surface water management system in accordance with the information outlined herein and shown by the application, approved drawings, plans, specifications, and other documents, attached hereto and kept on file at the Southwest Florida Water Management District (District). Unless otherwise stated by permit specific condition, permit issuance constitutes certification of compliance with state water quality standards under Section 401 of the Clean Water Act, 33 U.S.C. 1341. All construction, operation and maintenance of the surface water management system authorized by this permit shall occur in compliance with Florida Statutes and Administrative Code and the conditions of this permit.

PROJECT NAME: 44th Ave. East from 44th Ave. Plaza East to West of I-75

GRANTED TO: Manatee County Public Works
Attn: Sia Mollanazar, P.E.
1022 26th Ave E.
Bradenton, FL 34208

OTHER PERMITTEES: N/A

ABSTRACT: This permit authorization is for the modification of the previously permitted and constructed stormwater management systems approved under Environmental Resource Permit (ERP) Nos. 43005641.076, 44005641.035, 44005641.034, and 44005641.026. The proposed activities include:

1. Widening of 44th Avenue East (from existing 2-lane urban arterial section to proposed 4-lane divided urban arterial section) from 44th Avenue Plaza East to west of I-75.
2. Construction of new wet detention Pond SMF-07B.
3. Expansion of existing wet detention Pond SWF-1 previously permitted under ERP No. 44005641.035. The expanded wet detention pond is now known as Pond SMF-09. Pond SMF-09 will no longer be associated with the previous permit revision but will now be tracked under this modification, Permit No. 43005641.081, for operation and maintenance tracking and re-certification requirements.
4. Modification of existing control structures S-114, EX-017, EX-024 and EX-025 (previously permitted under ERP No. 44005641.026) as shown on the construction plans.

Information regarding the stormwater management system, 100-year floodplain, wetlands and/or surface waters is stated below and on the permitted construction drawings for the project.

OP. & MAIN. ENTITY: Manatee County Public Works

OTHER OP. & MAIN. ENTITY: N/A

COUNTY: Manatee

SEC/TWP/RGE: S12/T35S/R18E, S11/T35S/R18E, S02/T35S/R18E

**TOTAL ACRES OWNED
OR UNDER CONTROL:** 13.48
PROJECT SIZE: 13.48 Acres
LAND USE: Road Projects
DATE APPLICATION FILED: August 27, 2019
AMENDED DATE: N/A

I. Water Quantity/Quality

POND No.	Area Acres @ Top of Bank	Treatment Type
SMF-07B	0.60	MAN-MADE WET DETENTION
SMF-09	2.15	MAN-MADE WET DETENTION
	Total: 2.75	

Water Quality/Quantity Comments:

The proposed ponds (SMF-07B and SMF-09) provide treatment for runoff from the project via wet detention. Wet detention Pond SMF-07B is a new proposed wet detention pond. Wet detention Pond SMF-09 is a proposed expansion of existing wet detention Pond SWF-1 previously permitted under ERP No. 44005641.035.

Water quality treatment and attenuation for portions of the project area will be provided in the existing stormwater management systems previously permitted under ERP Nos. 44005641.026, 44005641.034, 44005641.035, and 43005641.066.

The project is located within the watershed of an Impaired Water Body, Williams Creek (WBID 1901), which is listed as impaired for dissolved oxygen (impairment linked to total phosphorus as the causative pollutant). Water quality certification is waived as a condition of this permit.

The system provides attenuation of the post-development 25-year, 24-hour peak discharge rate to the pre-development 25-year, 24-hour peak discharge rate.

The plans and calculations reflect the North American Vertical Datum of 1988 (NAVD 88).

A mixing zone is not required.

A variance is not required.

II. 100-Year Floodplain

Encroachment (Acre-Feet of fill)	Compensation (Acre-Feet of excavation)	Compensation Type	Encroachment Result* (feet)
0.07	0.00	Storage Modeling	N/A

Floodplain Comments:

Onsite floodplain elevations have been established by site-specific stormwater modeling. Encroachment into the 100-year floodplain has been demonstrated to have no adverse impacts on offsite locations by dynamic stormwater modeling.

*Depth of change in flood stage (level) over existing receiving water stage resulting from floodplain encroachment caused by a project that claims Minimal Impact type of compensation.

III. Environmental Considerations

Wetland/Other Surface Water Information

Wetland/Other Surface Water Name	Total Acres	Not Impacted Acres	Permanent Impacts		Temporary Impacts	
			Acres	Functional Loss*	Acres	Functional Loss*
Wetland A	0.65	0.65	0.00	0.00	0.00	0.00
Wetland B	0.01	0.00	0.01	0.00	0.00	0.00
Wetland C	0.02	0.00	0.02	0.00	0.00	0.00
Wetland 10	1.35	1.35	0.00	0.00	0.00	0.00
Ditch 1	0.01	0.00	0.01	0.00	0.00	0.00
Total:	2.04	2.00	0.04	0.00	0.00	0.00

* For impacts that do not require mitigation, their functional loss is not included.

Wetland/Other Surface Water Comments:

The project area for this permit contains 2.03 acres of wetland forested mixed (FLUCCS 630) and 0.01 acre of other surface waters ditches (FLUCCS 510). There will be 0.03 acre of permanent dredging impacts to wetland forested mixed and 0.01 acre of permanent filling impacts to other surface water ditches associated with the construction activities authorized in this permit.

Mitigation Information

Mitigation Comments:

Wetland mitigation is not required for the 0.03 acre of permanent dredging impacts to wetland forested mixed (Wetlands B & C) pursuant to Subsection 10.2.2.1 of the Environmental Resource Applicant's Handbook Volume I (A.H.V.I). Under this subsection, wetland mitigation is not required for impacts to isolated wetlands that are less than on half acre in size, unless the wetland is used by threatened or endangered species, is located in an area of critical state concern, designated pursuant to Chapter 380 F.S., is connected by standing or flowing water at seasonal high water level to one or more wetlands, and the combined wetland acreage, so connected, is greater than one half acre, or the District establishes that the wetland to be impacted is, or several such wetlands to be impacted are cumulatively, of more than minimal value to fish and wildlife based on the factors in Subsection 10.2.2.3.

Wetland mitigation is not required for the 0.01 acre of permanent filling impacts to other surface water ditches (Ditch 1) pursuant to Subsection 10.2.2.2 of the Environmental Resource Applicant's Handbook Volume I. Under this subsection, wetland mitigation is not required for impacts to upland cut drainage ditches that do not provide significant habitat for threatened or endangered species and were not constructed to divert natural stream flow.

Specific Conditions

1. If the ownership of the project area covered by the subject permit is divided, with someone other than the Permittee becoming the owner of part of the project area, this permit may be terminated, unless the terms of the permit are modified by the District or the permit is transferred pursuant to Rule 40D-1.6105, F.A.C. In such situations, each land owner shall obtain a permit (which may be a modification of this permit) for the land owned by that person. This condition shall not apply to the division and sale of lots or units in residential subdivisions or condominiums.
2. The Permittee shall retain the design professional registered or licensed in Florida, to conduct on-site observations of construction and assist with the as-built certification requirements of this project. The Permittee shall inform the District in writing of the name, address and phone number of the design professional so employed. This information shall be submitted prior to construction.
3. Wetland buffers shall remain in an undisturbed condition except for approved drainage facility construction/maintenance. No owner of property may perform any work, construction, maintenance, clearing, filling or any other type of activities within the wetlands, wetland buffers, buffer compensation areas, and drainage easements described in the approved permit, unless prior approval is received from the Southwest Florida Water Management District.
4. The following boundaries, as shown on the approved construction drawings, shall be clearly delineated on the site prior to initial clearing or grading activities:
 - a. wetland and surface water areas
 - b. wetland buffers
 - c. limits of approved wetland and other surface water impacts

The delineation shall endure throughout the construction period and be readily discernible to construction and District personnel.
5. All construction is prohibited within the permitted project area until the Permittee acquires legal ownership or legal control of the project area as delineated in the permitted construction drawings.
6. The removal of littoral shelf vegetation (including cattails) from wet detention ponds is prohibited unless otherwise approved by the District. Removal includes dredging, the application of herbicide, cutting, and the introduction of grass carp. Any questions regarding authorized activities within the wet detention ponds shall be addressed to the District's Engineering Manager at the Tampa Service Office.
7. This Permit Modification No. 43005641.081 amends the previously issued Permit Nos. 43005641.076, 44005641.034, and 44005641.026 and adds conditions. All other original permit conditions remain in effect.

This Permit Modification No. 43005641.081 amends the previously issued Permit No. 44005641.035 and all conditions are replaced (upon successful transfer to operation phase) by the conditions herein.
8. Certification of compliance with state water quality standards under Section 401 of the Clean Water Act, 33 U.S.C. 1341 is waived.
9. If limestone bedrock is encountered during construction of the stormwater management system, the District must be notified and construction in the affected area shall cease.
10. The Permittee shall notify the District of any sinkhole development in the stormwater management system within 48 hours of discovery and must submit a detailed sinkhole evaluation and repair plan for approval by the District within 30 days of discovery.
11. The Permitted Plan Set for this project includes the set received by the District on November 11, 2019.
12. If prehistoric or historic artifacts such as pottery or ceramics, stone or shell tools or metal implements, or any

other physical remains that could be associated with Native American cultures or early colonial or American settlement are encountered at any time within the project area, the permittee shall cease all activities involving subsurface disturbance in the immediate vicinity of such discoveries. The permittee shall contact the Florida Department of State, Division of Historical Resources, Compliance Review Section at (850) 245-6333, as well as the District. Project activities in the immediate vicinity shall not resume without authorization from the District after coordination with the Division of Historical Resources. In the event that unmarked human remains are encountered during permitted activities, all work that may disturb the unmarked human remains shall stop immediately and the proper authorities notified in accordance with Section 872.05, Florida Statutes.

13. The operation and maintenance entity shall provide for the inspection of the permitted project after conversion of the permit to the operation and maintenance phase. For systems utilizing retention or wet detention, the inspections shall be performed five (5) years after operation is authorized and every five (5) years thereafter.

The operation and maintenance entity must maintain a record of each inspection, including the date of inspection, the name and contact information of the inspector, whether the system was functioning as designed and permitted, and make such record available upon request of the District.

Within 30 days of any failure of a stormwater management system or deviation from the permit, an inspection report shall be submitted using Form 62-330.311(1), "Operation and Maintenance Inspection Certification" describing the remedial actions taken to resolve the failure or deviation.

14. District staff must be notified in advance of any proposed construction dewatering. If the dewatering activity is likely to result in offsite discharge or sediment transport into wetlands or surface waters, a written dewatering plan must either have been submitted and approved with the permit application or submitted to the District as a permit prior to the dewatering event as a permit modification. A water use permit may be required prior to any use exceeding the thresholds in Chapter 40D-2, F.A.C.
15. Off-site discharges during construction and development shall be made only through the facilities authorized by this permit. Water discharged from the project shall be through structures having a mechanism suitable for regulating upstream stages. Stages may be subject to operating schedules satisfactory to the District.
16. The permittee shall complete construction of all aspects of the stormwater management system, including wetland compensation (grading, mulching, planting), water quality treatment features, and discharge control facilities prior to beneficial occupancy or use of the development being served by this system.
17. The following shall be properly abandoned and/or removed in accordance with the applicable regulations:
 - a. Any existing wells in the path of construction shall be properly plugged and abandoned by a licensed well contractor.
 - b. Any existing septic tanks on site shall be abandoned at the beginning of construction.
 - c. Any existing fuel storage tanks and fuel pumps shall be removed at the beginning of construction.
18. All stormwater management systems shall be operated to conserve water in order to maintain environmental quality and resource protection; to increase the efficiency of transport, application and use; to decrease waste; to minimize unnatural runoff from the property and to minimize dewatering of offsite property.
19. Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the occupation of the site or operation of site infrastructure located within the area served by that portion or phase of the system. Each phase or independent portion of the system must be completed in accordance with the permitted plans and permit conditions prior to transfer of responsibility for operation and maintenance of that phase or portion of the system to a local government or other responsible entity.
20. This permit is valid only for the specific processes, operations and designs indicated on the approved drawings or exhibits submitted in support of the permit application. Any substantial deviation from the approved drawings, exhibits, specifications or permit conditions, including construction within the total land area but outside the approved project area(s), may constitute grounds for revocation or enforcement action by the District, unless a modification has been applied for and approved. Examples of substantial deviations include excavation of ponds, ditches or sump areas deeper than shown on the approved plans.

21. Issuance of this authorization also constitutes a finding of consistency with Florida's Coastal Zone Management Program, as required by Section 307 of the Coastal Zone Management Act.
22. This permit does not authorize the Permittee to cause any adverse impact to or "take" of state listed species and other regulated species of fish and wildlife. Compliance with state laws regulating the take of fish and wildlife is the responsibility of the owner or applicant associated with this project. Please refer to Chapter 68A-27 of the Florida Administrative Code for definitions of "take" and a list of fish and wildlife species. If listed species are observed onsite, FWC staff are available to provide decision support information or assist in obtaining the appropriate FWC permits. Most marine endangered and threatened species are statutorily protected and a "take" permit cannot be issued. Requests for further information or review can be sent to FWCConservationPlanningServices@MyFWC.com.

GENERAL CONDITIONS

1. The general conditions attached hereto as Exhibit "A" are hereby incorporated into this permit by reference and the Permittee shall comply with them.

David Kramer, P.E.

Authorized Signature

EXHIBIT A

GENERAL CONDITIONS:

- 1 The following general conditions are binding on all individual permits issued under this chapter, except where the conditions are not applicable to the authorized activity, or where the conditions must be modified to accommodate, project-specific conditions.
 - a. All activities shall be implemented following the plans, specifications and performance criteria approved by this permit. Any deviations must be authorized in a permit modification in accordance with Rule 62-330.315, F.A.C., or the permit may be revoked and the permittee may be subject to enforcement action.
 - b. A complete copy of this permit shall be kept at the work site of the permitted activity during the construction phase, and shall be available for review at the work site upon request by the Agency staff. The permittee shall require the contractor to review the complete permit prior to beginning construction.
 - c. Activities shall be conducted in a manner that does not cause or contribute to violations of state water quality standards. Performance-based erosion and sediment control best management practices shall be installed immediately prior to, and be maintained during and after construction as needed, to prevent adverse impacts to the water resources and adjacent lands. Such practices shall be in accordance with the *State of Florida Erosion and Sediment Control Designer and Reviewer Manual (Florida Department of Environmental Protection and Florida Department of Transportation June 2007)*, and the *Florida Stormwater Erosion and Sedimentation Control Inspector's Manual (Florida Department of Environmental Protection, Nonpoint Source Management Section, Tallahassee, Florida, July 2008)*, which are both incorporated by reference in subparagraph 62-330.050(8)(b)5, F.A.C., unless a project-specific erosion and sediment control plan is approved or other water quality control measures are required as part of the permit.
 - d. At least 48 hours prior to beginning the authorized activities, the permittee shall submit to the Agency a fully executed Form 62-330.350(1), "Construction Commencement Notice,"[effective date], incorporated by reference herein (<http://www.flrules.org/Gateway/reference.asp?No=Ref-02505>), indicating the expected start and completion dates. A copy of this form may be obtained from the Agency, as described in subsection 62-330.010(5),F.A.C. However, for activities involving more than one acre of construction that also require a NPDES stormwater construction general permit, submittal of the Notice of Intent to Use Generic Permit for Stormwater Discharge from Large and Small Construction Activities, DEP Form 62-621.300(4)(b), shall also serve as notice of commencement of construction under this chapter and, in such a case, submittal of Form 62-330.350(1) is not required.
 - e. Unless the permit is transferred under Rule 62-330.340, F.A.C., or transferred to an operating entity under Rule 62-330.310, F.A.C., the permittee is liable to comply with the plans, terms and conditions of the permit for the life of the project or activity.
 - f. Within 30 days after completing construction of the entire project, or any independent portion of the project, the permittee shall provide the following to the Agency, as applicable:
 1. For an individual, private single-family residential dwelling unit, duplex, triplex, or quadruplex - "Construction Completion and Inspection Certification for Activities Associated with a Private Single-Family Dwelling Unit" [Form 62-330.310(3)]; or
 2. For all other activities - "As-Built Certification and Request for Conversion to Operation Phase" [Form 62-330.310(1)].
 3. If available, an Agency website that fulfills this certification requirement may be used in lieu of the form.
 - g. If the final operation and maintenance entity is a third party:

1. Prior to sales of any lot or unit served by the activity and within one year of permit issuance, or within 30 days of as- built certification, whichever comes first, the permittee shall submit, as applicable, a copy of the operation and maintenance documents (see sections 12.3 thru 12.3.4 of Volume I) as filed with the Department of State, Division of Corporations and a copy of any easement, plat, or deed restriction needed to operate or maintain the project, as recorded with the Clerk of the Court in the County in which the activity is located.
 2. Within 30 days of submittal of the as- built certification, the permittee shall submit "Request for Transfer of Environmental Resource Permit to the Perpetual Operation and Maintenance Entity" [Form 62-330.310 (2)] to transfer the permit to the operation and maintenance entity, along with the documentation requested in the form. If available, an Agency website that fulfills this transfer requirement may be used in lieu of the form.
- h. The permittee shall notify the Agency in writing of changes required by any other regulatory agency that require changes to the permitted activity, and any required modification of this permit must be obtained prior to implementing the changes.
- i. This permit does not:
1. Convey to the permittee any property rights or privileges, or any other rights or privileges other than those specified herein or in Chapter 62-330, F.A.C.;
 2. Convey to the permittee or create in the permittee any interest in real property;
 3. Relieve the permittee from the need to obtain and comply with any other required federal, state, and local authorization, law, rule, or ordinance; or
 4. Authorize any entrance upon or work on property that is not owned, held in easement, or controlled by the permittee.
- j. Prior to conducting any activities on state-owned submerged lands or other lands of the state, title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund, the permittee must receive all necessary approvals and authorizations under Chapters 253 and 258, F.S. Written authorization that requires formal execution by the Board of Trustees of the Internal Improvement Trust Fund shall not be considered received until it has been fully executed.
- k. The permittee shall hold and save the Agency harmless from any and all damages, claims, or liabilities that may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any project authorized by the permit.
- l. The permittee shall notify the Agency in writing:
1. Immediately if any previously submitted information is discovered to be inaccurate; and
 2. Within 30 days of any conveyance or division of ownership or control of the property or the system, other than conveyance via a long-term lease, and the new owner shall request transfer of the permit in accordance with Rule 62-330.340, F.A.C. This does not apply to the sale of lots or units in residential or commercial subdivisions or condominiums where the stormwater management system has been completed and converted to the operation phase.
- m. Upon reasonable notice to the permittee, Agency staff with proper identification shall have permission to enter, inspect, sample and test the project or activities to ensure conformity with the plans and specifications authorized in the permit.
- n. If any prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, dugout canoes, or any other physical remains that could be associated with Native American cultures, or early colonial or American settlement are encountered at any time within the project site area, work involving

subsurface disturbance in the immediate vicinity of such discoveries shall cease. The permittee or other designee shall contact the Florida Department of State, Division of Historical Resources, Compliance and Review Section, at (850) 245-6333 or (800) 847-7278, as well as the appropriate permitting agency office. Such subsurface work shall not resume without verbal or written authorization from the Division of Historical Resources. If unmarked human remains are encountered, all work shall stop immediately and notification shall be provided in accordance with Section 872.05, F.S. (2012).

- o. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered binding unless a specific condition of this permit or a formal determination under Rule 62-330.201, F.A.C., provides otherwise.
 - p. The permittee shall provide routine maintenance of all components of the stormwater management system to remove trapped sediments and debris. Removed materials shall be disposed of in a landfill or other uplands in a manner that does not require a permit under Chapter 62-330, F.A.C., or cause violations of state water quality standards.
 - q. This permit is issued based on the applicant's submitted information that reasonably demonstrates that adverse water resource-related impacts will not be caused by the completed permit activity. If any adverse impacts result, the Agency will require the permittee to eliminate the cause, obtain any necessary permit modification, and take any necessary corrective actions to resolve the adverse impacts.
 - r. A Recorded Notice of Environmental Resource Permit may be recorded in the county public records in accordance with Rule 62-330.090(7), F.A.C. Such notice is not an encumbrance upon the property.
2. In addition to those general conditions in subsection (1) above, the Agency shall impose any additional project-specific special conditions necessary to assure the permitted activities will not be harmful to the water resources, as set forth in Rules 62-330.301 and 62-330.302, F.A.C., Volumes I and II, as applicable, and the rules incorporated by reference in this chapter.

SOUTHWEST FLORIDA
WATER MANAGEMENT DISTRICT

**NOTICE OF
AUTHORIZATION
TO COMMENCE CONSTRUCTION**

44th Ave. East from 44th Ave. Plaza East to West of I-75

PROJECT NAME

Road Projects

PROJECT TYPE

Manatee

COUNTY

S12/T35S/R18E, S11/T35S/R18E, S02/T35S/R18E

SEC(S)/TWP(S)/RGE(S)

Manatee County Public Works

PERMITTEE

APPLICATION ID/PERMIT NO: 789958 / 43005641.081

DATE ISSUED: December 03, 2019



David Kramer, P.E.

Issuing Authority

**THIS NOTICE SHOULD BE CONSPICUOUSLY
DISPLAYED AT THE SITE OF THE WORK**

Notice of Rights

ADMINISTRATIVE HEARING

1. You or any person whose substantial interests are or may be affected by the District's intended or proposed action may request an administrative hearing on that action by filing a written petition in accordance with Sections 120.569 and 120.57, Florida Statutes (F.S.), Uniform Rules of Procedure Chapter 28-106, Florida Administrative Code (F.A.C.) and District Rule 40D-1.1010, F.A.C. Unless otherwise provided by law, a petition for administrative hearing must be filed with (received by) the District within 21 days of receipt of written notice of agency action. "Written notice" means either actual written notice, or newspaper publication of notice, that the District has taken or intends to take agency action. "Receipt of written notice" is deemed to be the fifth day after the date on which actual notice is deposited in the United States mail, if notice is mailed to you, or the date that actual notice is issued, if sent to you by electronic mail or delivered to you, or the date that notice is published in a newspaper, for those persons to whom the District does not provide actual notice.
2. Pursuant to Subsection 373.427(2)(c), F.S., for notices of intended or proposed agency action on a consolidated application for an environmental resource permit and use of state-owned submerged lands concurrently reviewed by the District, a petition for administrative hearing must be filed with (received by) the District within 14 days of receipt of written notice.
3. Pursuant to Rule 62-532.430, F.A.C., for notices of intent to deny a well construction permit, a petition for administrative hearing must be filed with (received by) the District within 30 days of receipt of written notice of intent to deny.
4. Any person who receives written notice of an agency decision and who fails to file a written request for a hearing within 21 days of receipt or other period as required by law waives the right to request a hearing on such matters.
5. Mediation pursuant to Section 120.573, F.S., to settle an administrative dispute regarding District intended or proposed action is not available prior to the filing of a petition for hearing.
6. A request or petition for administrative hearing must comply with the requirements set forth in Chapter 28-106, F.A.C. A request or petition for a hearing must: (1) explain how the substantial interests of each person requesting the hearing will be affected by the District's intended action or proposed action, (2) state all material facts disputed by the person requesting the hearing or state that there are no material facts in dispute, and (3) otherwise comply with Rules 28-106.201 and 28-106.301, F.A.C. Chapter 28-106, F.A.C. can be viewed at www.flrules.org or at the District's website at www.WaterMatters.org/permits/rules.
7. A petition for administrative hearing is deemed filed upon receipt of the complete petition by the District Agency Clerk at the District's Tampa Service Office during normal business hours, which are 8:00 a.m. to 5:00 p.m., Monday through Friday, excluding District holidays. Filings with the District Agency Clerk may be made by mail, hand-delivery or facsimile transfer (fax). The District does not accept petitions for administrative hearing by electronic mail. Mailed filings must be addressed to, and hand-delivered filings must be delivered to, the Agency Clerk, Southwest Florida Water Management District, 7601 Highway 301 North, Tampa, FL 33637-6759. Faxed filings must be transmitted to the District Agency Clerk at (813) 367-9776. Any petition not received during normal business hours shall be filed as of 8:00 a.m. on the next business day. The District's acceptance of faxed petitions for filing is subject to certain conditions set forth in the District's Statement of Agency Organization and Operation, available for viewing at www.WaterMatters.org/about.

JUDICIAL REVIEW

1. Pursuant to Sections 120.60(3) and 120.68, F.S., a party who is adversely affected by District action may seek judicial review of the District's action. Judicial review shall be sought in the Fifth District Court of Appeal or in the appellate district where a party resides or as otherwise provided by law.
2. All proceedings shall be instituted by filing an original notice of appeal with the District Agency Clerk within 30 days after the rendition of the order being appealed, and a copy of the notice of appeal, accompanied by any filing fees prescribed by law, with the clerk of the court, in accordance with Rules 9.110 and 9.190 of the Florida Rules of Appellate Procedure (Fla. R. App. P.). Pursuant to Fla. R. App. P. 9.020(h), an order is rendered when a signed written order is filed with the clerk of the lower tribunal.

Florida Department of Transportation Standard Specifications For Road and Bridge Construction, July 2019

Section 8-10.2 Amount of Liquidated Damages

\$20,000,000 and over.....\$9,198 plus 0.00005 of any amount over \$20 million (Round to nearest whole dollar)

Final Cost Estimate Dated June 2019

Transportation Subtotal: \$53,631,950.13 (Braden River segment and Phase 1, combined, Transportation items only)

Base LD:	\$9,198.00
<u>\$0.00005 of over \$20M:</u>	<u>\$1,682.00</u>
Transportation Daily Charge Per Calendar Day:	\$10,880.00
<u>Utilities Daily Charge Per Calendar Day:</u>	<u>\$1,267.00</u>
Total Daily Charge Per Calendar Day:	\$12,147.00

Method for Calculation of Liquidated Damages for Utility Projects

Project Name: **44th Ave E - 45th St E to 44th Ave Plz E**
 Project Number: **404-6086960**

Consultant Cost

Based on fees and construction duration from the executed Work Assignment converted to a per calendar day basis
 Include all costs associated with the ongoing progress of the project

1	Fee: (site visits, RFIs, Meetings, Pay Apps, etc.):	\$90,000
2	Active Construction Duration assumed in WA	900 Calendar Days
	Daily Cost =	\$100.0 \$/Calendar Day

In-House Engineering Cost

Based on Work Directive issued for project
 Include all costs associated with the ongoing progress of the project

1	Fee: (site visits, RFIs, Meetings, Pay Apps, Changes):	\$0
2	Active Construction Duration assumed in WD	0 Calendar Days
	Daily Cost =	\$0.0 \$/Calendar Day

Infrastructure Inspections Cost

Based on Work Directive issued for project
 Include all costs associated with the ongoing progress of the project

1	Assumed hours per working day	3 hours
2	Hourly rate for Inspections	\$100 \$/hour
3		Daily Cost = \$300 \$/Working Day
4	Convert from "working" to "calendar" days (5/7)	0.71
	Daily Cost =	\$214.3 \$/Calendar Day

Project Management/Fiscal/FMD/Clerk Cost

Based on average overhead cost charged to all projects

1	Average overhead cost charged to all projects	6.00%
2	Engineer's Opinion of Probable Construction Cost	\$14,867,482
3	Overhead allocation for construction	\$892,049
4	Duration of Bidding/Construction Phase (Calendar Days)	
	Bidding/Award	120
	NTP to Substantial Completion	900
	Final Completion/Closeout	60
	Total Days	1080 Calendar Days
	Daily Cost =	\$826.0 \$/Calendar Day

Geotechnical Testing Cost

Based on executed Work Assignment converted to a per calendar day basis

1	Geotechnical Work Assignment	\$50,000.0
2	Estimated Active Construction Duration	900 Calendar Days
	Daily Cost =	\$55.6 \$/Calendar Day

Utility Operations Cost

Obtain separately from appropriate Utility Operations Division Manager
 Consider any rental charges, equipment cost, operational cost to maintaining operation, temporary facilities, risks, etc. associated with project.
 Obtain from Utility Operations Manager

1	Assumed hours per working day	1 hour(s)
2	Hourly rate	\$100 \$/hour
3		Daily Cost = \$100 \$/Working Day
4	Convert "working" to "calendar" days (5/7)	0.71
5	Additional Operational Expenses per day *	\$0.00 per day
	* Describe: 3/4 ton pick-up, 1 hour/day (presume this is included in hourly rate. If not, perhaps a cost figure can be determined by PW Fleet)	
	Daily Cost =	\$71.4 \$/Calendar Day

SUMMARY

Consultant Cost	\$100.0
In-House Engineering Cost	\$0.0
Infrastructure Inspections Cost	\$214.3
Project Management/Fiscal/FMD/Clerk Cost	\$826.0
Geotechnical Testing Cost	\$55.6
Utility Operations Cost	\$71.4
TOTAL	\$1,267 \$/Calendar Day

Signature of Preparer: **Eric Shroyer, P.E.**

Date Prepared: **19-Sep-19**



UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.:	1130.1500167.0000
REPORT NO.:	11804
PAGE:	1

PROJECT: Proposed 44th Ave E, Extension Phase II
44th Ave E and Caruso Road
Bradenton, Manatee County, Florida

BORING DESIGNATION: **C2-1**
SECTION: TOWNSHIP:

SHEET: **1 of 1**
RANGE:

CLIENT: Aecom
LOCATION: See Boring Location Plan
REMARKS: N 27°27.356"
W 082° 29.122"

G.S. ELEVATION (ft):
WATER TABLE (ft):
DATE OF READING: 7-14-2016
EST. W.S.W.T. (ft):
DATE STARTED: 7/14/16
DATE FINISHED: 7/14/16
DRILLED BY: M.G
TYPE OF SAMPLING: ASTM D1452

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N (BLOWS/ FT.)	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		UCS (TSF)	ORG. CONT. (%)
									LL	PI		
0					Asphalt: 8-inch							
					Limerock Base Material: 11-inch							
						Dark gray fine sand with trace silt (SP)						
						Light gray fine sand (SP)						
5						dark gray fine sand with trace silt (SP)						
10												

BORING_LOG (11804) 1500167 PROPOSED 44TH AVE. EXPANSION PHASE II.GPJ UNIENGSC.GDT 7/20/16