

ADDENDUM NUMBER THREE
TO
REQUEST FOR BIDS, CONTRACT DOCUMENTS, CONSTRUCTION
SPECIFICATIONS AND DRAWINGS
FOR CONSTRUCTION OF

ROADWAY IMPROVEMENTS FOR EMERSON PARK

ACKNOWLEDGE RECEIPT OF THIS ADDENDUM BY INSERTING ITS NUMBER IN THE PROPOSAL. FAILURE TO DO SO MAY SUBJECT BONA FIDE PROPOSERS TO DISQUALIFICATION. THIS ADDENDUM FORMS A PART OF THE PROJECT DOCUMENTS; IT MODIFIES THEM AS FOLLOWS:

1. Bid Documents Section 01150 Measurement and Payment, Item 2.09 to be revised from “The unit price bid shall include all labor, equipment, and labor necessary to complete the item of work” to read “The unit price bid shall include all labor, equipment, and materials necessary to complete the item of work.”
2. Comment: Will Satilla Water be onsite during work times to deal with water main conflicts that arise?
Response: It will be the contractor's responsibility to coordinate schedule with the utility company to address any conflicts.
3. Comment: When using “GDOT Specs,” a pay item for Type 2 backfill should be included with the culvert line items. Will you include this line item?
Response: See bid documents Section 01150 Measurement and Payment, Item 2.09 Drainage Pipe.
4. Comment: Will Satilla Water relocate and/or provide the new hydrants listed on the plans?
Response: It will be the contractor's responsibility to coordinate schedule with the utility company to address any conflicts. It will be the utility company's responsibility to relocate the system.

SECTION 01150
MEASUREMENT AND PAYMENT

PART 1 – GENERAL

1.01 QUANTITIES

A. Quantities: Quantities listed in the Proposal are approximate only and are intended to serve as a guide in comparing bids and may be increased or decreased without invalidating the unit price bid.

B. Payment: Contractor shall be paid for actual in place quantities as determined by the Engineer field measurements.

C. Discrepancies: In case of discrepancies between the figures shown in the unit prices and totals, the unit prices shall apply, and the totals shall be corrected to agree with the unit price.

PART 2 – MEASUREMENT AND PAYMENT

2.01 GRADING MODIFIED

A. Measurement: Grading (modified) including haul will be measured in linear miles along the centerline of the road or the median, including ramps when so shown on the plans. Surplus material may be disposed of beyond the end of the project, but the mileage measured for payment will not extend beyond the established termini.

B. Payment: The item of Grading (modified) including haul will be paid for at the contract unit price per linear mile complete in place, which price shall be full compensation for clearing and grubbing inside the construction limits where the item is not shown as a separate item in the contract, for all grading all excavation to the typical section required or as modified herein, compaction, compaction testing, formation of embankments, construction of shoulders, backing out subgrades for pavement, flushing fill slopes and ramps, filling washes, wasting surplus or unsuitable material, furnishing and placing structural fill material as required, finishing and dressing, cleaning of side ditches, all hauling of excavation, driveway, watermain and drainage demolition and removal, relocation of mailboxes and other structures or any incidentals necessary to complete the item. It is clearly understood that in no case will any separate payment be made for finishing and dressing, and that the cost of necessary finishing and dressing to comply with these specifications shall be included in the contract unit price of Grading Modified including haul.

2.02 ASPHALT PAVING (INCLUDING OVERLAY)

A. Measurement: Measurement will be made on the basis of each ton of asphalt in place, in accordance with the construction plans and accepted by the Engineer. Actual weight will be determined by weighing on a certified motor truck scale and presenting a notarized copy of the recorded weight to the Engineer.

B. Payment: Payment will be made on the basis of the number of tons of asphalt in place in accordance with the unit price bid. The unit price bid shall include all labor, equipment, and materials to complete the item of work. Work shall include, but is not limited to, the furnishing, hauling, placing and compaction of the asphalt in order to bring the pavement to the lines, grades and cross sections as designated on the construction plans and as determined by the Engineer. The unit price bid shall also include driveways, surface cleaning, prime, tack and pavement.

2.03 SOIL CEMENT BASE

A. Measurement: Measurement shall be made on the basis of the number of square yards of soil cement base applied to the roadway at the specified thickness as shown on the construction plans. Irregular areas such as turnouts, filler strips and intersections will be measured to the closest square yard. Prior to installation of the pavement all areas will be checked for proper thickness.

B. Payment: Payment will be made on the basis of the number of square yards of soil cement base at the specified thickness applied to the roadway at the unit price stated in the bid. The unit price shall include all labor, equipment, and material to complete the item of work. Work shall include, but not be limited to, the furnishing, hauling, watering, verifying moisture content, providing, and placing cement, mixing, and testing, grading and compaction of the base in order to bring the base to the lines, grades, and cross sections shown on the construction plans or established by the Engineer. Work shall also include complete surface restoration and clean-up.

2.04 GRADED AGGREGATE BASE (GAB) ROADWAY WIDENING (EXCLUDING ASPHALT)

A. Measurement: Measurement will be made on the basis of the number of square yards of roadway widening applied to the roadway at the specified thickness shown on the construction plans. The length will be measured on the surface along the centerline and the width will be that specified on the construction plans. Irregular areas such as turnouts and intersections will be measured to the closest square yard.

B. Payment: Payment will be made on the basis of the number of square yards of roadway widening completed, in accordance with the plans at the unit price bid. The unit price shall include furnishing all labor equipment and materials to complete the item of work. The work shall include, but not be limited to, trenching, excavation, milling, removal of materials, grading, compaction and the like necessary to prepare the roadway widening, the furnishing, hauling, placing and compaction of the GAB base in order to bring the base to the lines, grades, and cross sections shown on the construction plans or established by the Engineer. Work shall also include complete surface restoration and clean-up, and traffic control. This item shall include the cost required to remove, replace, rebuild, or relocate existing mailboxes.

2.05 BITUMINOUS SURFACE TREATMENT

A. Measurement: Measurement shall be made on the basis of the number of square yards of bituminous surface treatment applied to the roadway at the specified thickness as shown on the construction plans. Irregular areas such as turnouts, filler strips and intersections will be measured to the closest square yard.

B. Payment: Payment will be made on the basis of the number of square yards of bituminous surface treatment, at the specified thickness, applied to the roadway at the unit price stated in the bid. The unit price shall include all labor, equipment, and material to complete the item of work. Work shall include, but not be limited to, the furnishing and applying bituminous material, furnishing, hauling, spreading, rolling, and brooming of the aggregates, in order to bring the surface treatment to the lines, grades, and cross sections shown on the construction plans or established by the Engineer. Work shall also include complete surface restoration and clean-up.

2.06 DEEP PATCH (REMOVE EXISTING ASPHALT/CONCRETE)

A. Measurement: Measurement will be made on the basis of the number of square yards of identified areas removed as shown on the construction plans. The length will be measured on the surface along the centerline and the width will be that specified on the construction plans. Irregular areas such as turnouts and intersections will be measured to the closest square yard.

B. Payment: Payment will be made on the basis of the number of square yards of identified areas removed, in accordance with the plans at the unit price bid. The unit price shall include furnishing all labor, equipment, and materials to complete the item of work. The work shall include, but not be limited to, marking, saw cutting, excavation, removal of materials, disposal of material, grading, subgrade compaction, cleanup, and the like necessary to prepare the area of roadway for the installation of GAB, concrete and or asphalt overlay.

2.07 ROADWAY MILLING

A. Measurement: Measurement will be made on the basis of each square yard of asphalt milled in accordance with the construction plans, or as directed by the engineer.

B. Payment: Milling asphaltic concrete pavement, measured as specified, will be paid for at the Contract Unit Price bid per square yard. The unit price shall include furnishing all labor equipment and materials necessary to complete the item of work. The price bid for this item includes the credit value of all Reclaimed Asphalt Pavement (RAP) recovered, and no adjustment in the unit price for this item or other items will be considered for variations in the amount of RAP actually recovered. Payment is full compensation for furnishing equipment, milling, hauling, stockpiling milled material, and satisfactorily performing the work.

2.08 REMOVE AND REPLACE FENCE

A. Measurement: Measurement will be made on the basis of each linear foot of new fence installed in accordance with the construction drawings or as directed by the engineer.

B. Payment: Payment will be made on the basis of each linear foot of new fence installed in accordance with the construction drawings or as directed by the engineer at the unit price bid. The unit price bid shall include all labor, equipment, and materials necessary to complete the item of work. The item of work shall include, but not be limited to, all costs to remove and dispose of existing fencing, posts, post foundations and re-posting of fence cut-off. Fence to be removed beginning at cut or fill line or as directed by engineer. Removal includes backfilling of all post holes and any associated landscape restoration and sprinkler system repair due to damages made during fence removal. Relocating of fence includes all cost to install new post foundations, new fence post, new in-kind fence, tension wires, gates, tightening clamps, miscellaneous parts, and all materials to reinstall the full fence at the new location determined by the engineer; including any and all clean up and surface restoration required.

2.09 DRAINAGE PIPE

A. Measurement: Measurement will be made on the basis of each linear foot of drainage pipe installed at the elevation, grade and alignment as designated on the construction plans or directed by the Engineer.

B. Payment: Payment will be on the basis of each linear foot of drainage pipe installed at the elevation, grade and alignment as designated on the construction plans at the unit price bid stated in the Contract. The unit price bid shall include all labor, equipment, and materials necessary to complete the item of work. Work shall include, but not be limited to, all excavation, trenching, dewatering, necessary shoring and sheeting, all pipe bedding, furnishing, and installing pipe, backfill, compaction, complete surface restoration and cleanup.

2.10 DRAINAGE STRUCTURES (Catch Basin, Yard Drain, Junction Box, Headwall, Concrete Flumes, Flared End Section, Pipe End Treatments)

A. Measurement: Measurement will be made on the basis of each drainage structure installed at the elevation & location designated on the construction plans.

B. Payment: Payment will be made on the basis of each structure installed at the unit price bid. The unit price bid shall include furnishing all labor, materials, and equipment necessary to complete the item of work. Work shall include, but not be limited to, excavation, necessary shoring and sheeting, dewatering, forming, placement of concrete, bricks, or precast structure, form wrecking, foundations as required, furnishing, and installing the structure, placement of grates and manhole rings and covers as applicable, grouting around pipe and lid, sealing of structure, backfill, compaction, grading, complete surface restoration and cleanup.

2.11 ROADWAY STRIPING/MARKING

A. Measurement: Linear measurements are made on the painted surface by a measuring device rolled along the painted surface. Traffic stripe and markings, complete in place, are measured and accepted for payment as follows:

- i. Solid Traffic Stripe
Solid traffic stripe is measured by the linear foot. Breaks or omissions in solid lines or stripes at street or road intersections are not measured.
- ii. Skip Traffic Stripe
Skip traffic stripe is measured by the gross linear foot. Unpainted spaces between the stripes are included in the overall measurements if the Plan ratio of 1 to 3 remains uninterrupted. Measurement begins and ends on a stripe.
- iii. Pavement Markings
Markings are words and symbols completed according to Plan. Markings are measured by the unit.

B. Payment: Payment will be made on the basis of the unit price. The unit price shall include all materials, labor, and equipment necessary to complete the item of work. Work shall include, but is not limited to, cleaning and preparing surfaces, furnishing materials, including paints, beads, and thinners, applying, curing, and protecting paints, protecting traffic, including providing and placing necessary warning signs, furnishing tools, machines, and other equipment necessary to complete the Item or work.

2.12 RAISE MANHOLES TO GRADE

A. Measurement: Measurement will be made on the basis of each manhole ring and cover being raised to the elevation and location designated on the construction plans or as directed by the engineer.

B. Payment: Payment will be made on the basis of each manhole ring and cover adjusted to the proper height as shown on the plans or as directed by the engineer at the

unit price bid. The unit price bid shall include furnishing all labor, materials and necessary equipment to complete the item of work. Work shall include, but not be limited to, excavation, demolition, removal of existing pavement, necessary shoring and sheeting, dewatering, forming, placement of concrete, bricks, or precast concrete rings, steel riser rings, adjusting frame or ring and cover to grade, waterproofing, sealing, form wrecking, grouting around pipe and lid, backfill, compaction, grading, complete surface restoration and cleanup.

2.13 RAISE VALVE BOXES TO GRADE

A. Measurement: Measurement will be made on the basis of each valve box and cover being raised to the elevation and location designated on the construction plans or as directed by the engineer.

B. Payment: Payment will be made on the basis of each valve box and cover adjusted to the proper height as shown on the plans or as directed by the engineer at the unit price bid. The unit price bid shall include furnishing all labor, materials, and necessary equipment to complete the item of work. Work shall include, but not be limited to, excavation, demolition, removal of existing pavement, necessary shoring and sheeting, dewatering, forming, steel riser rings, adjusting frame or ring and cover to grade, waterproofing, sealing, form wrecking, grouting around pipe and lid, backfill, compaction, grading, complete surface restoration and cleanup.

2.14 PVC WATERMAINS (Relocate Water per Storm Conflicts)

A. Measurement: Measurement will be made along the centerline of the pipe trench and through fittings and specials as directed by engineer. No reduction in length will be made for fittings or specials.

B. Payment: Payment will be made on the basis of measurement of watermain installed long the centerline of the pipe trench and through fittings and specials as directed by engineer. Unit price bid shall include all materials, labor, and equipment necessary to complete the installation of the watermain. Work shall include, but not be limited to, trenching and excavation, necessary shoring, and sheeting, furnishing, and installing pipe, backfilling and compaction, concrete blocking, bedding, pressure testing, disinfection, complete surface restoration and cleanup.

2.15 SIGNS

A. Measurement: Measurement will be made on the basis of each sign installed and completed item in accordance with the construction plans or as directed by the engineer.

B. Payment: Payment will be made on a unit price basis for each completed item installed in accordance with the construction plan or as directed by the engineer. The unit price shall include, but not be limited to furnishing all labor equipment and materials necessary for the satisfactory installation of roadway signs. The work shall include, but not be limited to, furnishing, and installing posts, furnishing, excavation, backfilling, clean up and complete surface restoration, and installing signs, all within accordance with the MUTCD sign manual.

2.16 CONSTRUCTION EXIT

A. Measurement: Measurement will be made on a unit price basis of each construction exit installed and maintained in accordance with the construction plans or as directed by the engineer.

B. Payment: Payment will be made on a unit price basis for each construction exit installed in accordance with the construction plan or as directed by the engineer. The unit price shall include furnishing all labor equipment, and materials necessary for the satisfactory prevention of transporting sediment from the site. The unit price bid shall include, but not be limited to, furnishing and placing geotextile fabric, furnishing, and installing stone, grading, maintenance, repair, replacement, sweeping, and the like. It shall also include the removal of the construction exit upon completion of the project, cleanup, and complete surface restoration.

2.17 SILT FENCE

A. Measurement: Measurement will be made on the basis of each linear foot of silt fence installed in accordance with the construction drawings or as directed by the engineer.

B. Payment: Payment will be made on the basis of each linear foot of silt fence installed in accordance with the construction drawings or as directed by the engineer at the unit price bid. The unit price shall include all labor, equipment, and materials necessary to complete the item of work. The item of work shall include, but not be limited to necessary trenching, providing and placing silt fence, staking, stretching, backfill, maintenance for the life of the project, repair and/or replacement, removal, complete surface restoration and cleanup.

2.18 INLET PROTECTION - SEDIMENT TRAPS

A. Measurement: Measurement will be made on the basis of each inlet protection device installed and maintained in accordance with the construction plan or as directed by the engineer.

B. Payment: Payment will be made on a unit price basis as stated in the bid. The unit price shall include, but not be limited to furnishing all labor equipment and materials necessary for the satisfactory prevention of sediment-laden stormwater from entering drainage inlets, junction boxes or curb inlets. The work shall include, but not be limited to, trenching, furnishing, and installing filter fabric, staking, backfill, furnishing and installing concrete blocks and associated materials, placement of filters, etc. The unit price shall also include complete maintenance, cleaning, and or replacement of the inlet sediment trap throughout the life of the project. It shall also include the removal of the temporary inlet protection upon completion of the project and complete restoration around inlet grates and manhole covers. Structures that are shown to include sod protection include furnishing, installing of sod around the required structures.

2.19 HAY BALE CHECK DAM

A. Measurement: Measurement will be made on the basis of each complete hay bale check dam installed in accordance with the construction plans or as directed by the engineer.

B. Payment: Payment will be made on the basis of each hay bale check dam installed and maintained in accordance with the construction plans at the unit price stated in the bid. The unit price shall include, but not be limited to, furnishing all labor, equipment, and materials, necessary to complete the item of work. Work shall include, but not limited to, staking, excavation, trenching, furnishing, and installing hay bales, backfill, continual maintenance, removal, disposal, complete surface restoration and clean-up. No additional payment will be made for replacement hay bales.

2.20 ROLLED SLOPE MATTING

C. Measurement: Measurement will be made on the basis of each square yard of rolled slope matting installed in accordance with the construction plans or as directed by the engineer.

D. Payment: Payment will be made on the basis of each square yard of rolled slope matting installed and maintained in accordance with the construction plans at the unit price stated in the bid. The unit price shall include, but not be limited to, furnishing all labor, equipment, and materials, necessary to complete the item of work. Work shall include, but not limited to, staking, excavation, trenching, furnishing, and installing hay bales, backfill, continual maintenance, removal, disposal, complete surface restoration and clean-up. No additional payment will be made for replacement rolled slope matting.

2.21 TEMPORARY DITCH SEDIMENT TRAP

A. Measurement: Measurement will be made on the basis of each complete temporary ditch sediment trap installed in accordance with the construction plans or as directed by the engineer.

B. Payment: Payment will be made on the basis of each temporary ditch sediment trap installed and maintained in accordance with the construction plans at the unit price stated in the bid. The unit price shall include furnishing all labor, equipment, and materials, necessary for the item of work. Work shall include, but not limited to, staking, excavation, trenching, furnishing and installing temporary ditch sediment trap, backfill, continual maintenance, removal, disposal, complete surface restoration and clean-up. No additional payment will be made for replacement temporary ditch sediment trap.

2.22 OUTLET PROTECTION RIP RAP

A. Measurement: Measurement shall be made on the basis of the number of square yards of granite rip rap placed at the locations shown on the plans and in accordance with "The Manual for Erosion and Sediment Control in Georgia".

B. Payment: Payment will be made on the number of square yards installed at the unit price bid. The unit price bid shall include all material, labor, and equipment necessary to accomplish the task. Work shall include, but not be limited to, excavation, grading, furnishing, and placing rip rap, gravel filler, geotextile filter blanket as shown on the plans to cover area entirely avoiding washouts in the future. Thickness of rip rap coverage will be at least the thickness shown on the plans for each location, but in no case shall be less than 1.5 times the rock diameter.

2.23 GRASSING

A. Measurement: Measurement shall be made on the basis of the completed item in accordance with the construction plans and bid items. Work performed under this section will be measured to the nearest one-tenth acre.

B. Payment: Payment will be made in accordance with the price stated in the bid. The unit price shall include, but is not limited to, furnishing all labor, materials, and equipment necessary for the satisfactory growth of grass on all disturbed areas in accordance with plans and specifications. Work shall include, but not be limited to, furnishing all materials, fertilizer, soil samples, grass seed, raking, leveling, watering, re-seeding, maintenance, and final surface restoration. Final payment will not occur until permanent grass is established.

2.24 MULCHING

A. Measurement: Measurement shall be made on the basis of the completed item in accordance with the construction plans and bid items. Work performed under this section will be measured to the nearest one-tenth acre.

B. Payment: Payment will be made in accordance with the price stated in the bid. The unit price shall include furnishing all labor, materials, and equipment necessary for the satisfactory mulching of all disturbed areas in accordance with plans and specifications. Work shall include, but not be limited to, furnishing, and installing hay, straw and the like, surface restoration and clean-up. The hay or straw shall be blown, or hand broadcasted to a uniform depth, minimum 85% coverage. The unit price bid shall also include maintenance of mulch until final grassing is established. Mulching is to be completed daily to ensure no erosion of disturbed areas.

2.25 TRAFFIC CONTROL

A. Measurement: Measurement will be made on the basis of the completed item of work or percentage thereof.

B. Payment will be made on the basis of the completed item of work or a percentage thereof at the unit price bid. The unit price bid shall include all labor, equipment, and materials necessary to complete the item of work. The item of work shall include, but not be limited to, furnishing all necessary signage, barrels, and personnel necessary to adequately manage traffic during all phases of construction. This item also includes the relocation of trash bins to allow trash collection during construction, cost for placing notices on residential doors in the neighborhood.

2.26 WATER QUALITY INSPECTION/TESTING/SAMPLING

A. Measurement: Measurement will be made on the basis of the completed item of work. Water Quality Inspections in accordance with the inspection and reports sub-sections will be measured for payment by the month up to the time the Contract Time expires. Required inspections and reports after Contract Time has expired will not be measured for payment. Water Quality Monitoring and Sampling are measured per each. When the monitoring location is receiving water, the upstream and downstream samples constitute one sample. When the monitoring location is an outfall, a single outfall sample constitutes one sample.

B. Payment will be made on the basis of the completed item of work at the unit price bid. The unit price bid shall include all labor, equipment, and materials necessary to complete the item of work. The item of work shall include, but not be limited to, Water Quality Monitoring and Sampling per each is full compensation for meeting the requirements of the monitoring sections of the NPDES permit, obtaining samples, analyzing samples, any and all necessary incidentals, and providing results of turbidity tests to the Engineer, within the time frame required by the NPDES Infrastructure permit. This item is based on the rainfall events that require sampling as described in Part IV.D.5 of the permit. The Engineer will not pay for samples taken and analyzed for rainfall events that are not qualifying events as compared to the daily rainfall gauge. Water Quality Inspections will be paid at the Contract Price per month. This is full compensation for performing the requirements of the inspection section of the NPDES permit, any and all necessary incidentals, and providing results of inspections to the Engineer, within the time frame required by the NPDES Infrastructure permit.

2.27 MOBILIZATION

A. Measurement: Measurement will be made on the basis of the completed item of work or percentage thereof.

B. Payment will be made for the price as stated in the Contract once the Contractor has established his construction yard, and met the requirements established in the Contract Documents. Mobilization will be recognized complete once the Contractor has provided a construction schedule and moved his equipment and a substantial amount of material to the job site. Construction must be underway and progressing. Payment for mobilization will be limited to a maximum amount not to exceed 3.0% of the bid price.