

### **Forsyth County Procurement**

Donna H. Kukarola, CPPO, CPPB | Director

July 10, 2020

## ADDENDUM #1 Bid No. 20-83-5212

For: To provide all materials, equipment, and labor for the replacement of a portion of the Big Creek Greenway, from McFarland Road Trailhead to Union Hill, approximately 1.810 miles.

This addendum supersedes and supplements all portions of the bidding documents and becomes part of the contract documents for the above-referenced project.

Where any item called for in the specifications or indicated on the drawings is supplemented hereby, the original requirements shall remain in effect.

Where any original item is amended, voided or superseded hereby, the provision of such item not so specifically amended, voided or superseded shall remain in effect.

#### Response to questions received: (response in italics)

- 1. The typical boardwalk section #1 on sheet 05-0001 notes boardwalks 1-6 are to have steel caps. Sheet 35-0002 Indicates steel caps are an option in reusing existing piles yet the section drawing notes for new or existing. Please clarify/ quantify the amount of steel caps to be used on each boardwalk. Boardwalks 1-6 are to have steel caps as noted on the plans. The option for wooden caps as indicated on sheet 35-0002 are only in locations where new boardwalk is proposed (not replaced) outside of the sewer line easement.
- 2. Steel caps in large quantities will be expensive. Will 3 x 12 wood caps for all boardwalks be an acceptable substitution? Wood caps are only allowable on boardwalks on new locations (boardwalks 5A, 8 and 9) as shown on the plans. In all other areas steel caps are required.
- 3. The plans indicate that 20% of the posts are expected to be replaced. Is that 20% represented in the lump sum items for each boardwalk with the Replace 6x6 Timber Boardwalk Post used as a unit price for overages or is that 275' represent the 20% referred to in the plans? The lump sum for each boardwalk to be replaced (boardwalks 1-

- 6) is for super structure replacement only. The 275 replacement posts represents 20% of the post assumed to need replacing. For completely new boardwalks (5A, 8 and 9) the lump sum cost for boardwalk should include the complete installation of the boardwalk including posts. Any post required beyond the 275 (20%) will be paid for by the established unit price for each 6x6 post.
- 4. General Note 16 indicates that we will pressure wash the trail after construction. Is this all 5 miles of the trail or just the sections we work on? The entirety of the trail between McFarland and Union Hill trailheads shall be pressure washed. North of Union Hill Road only areas where work is completed or sections of the trail used for access by the contractor shall be pressure washed.
- 5. Who will be responsible for the existing construction materials laying along the trail from previous repairs? The County is not aware of any existing construction materials along the trail from previous repairs. If any exist, it will not be the responsibility of the contractor to remove.
- 6. We are being told that the lumber market has a shortage of treated materials and that there is an extensive back log to get the materials. Will this be taken into consideration for the awarded contractor and scheduling of the project? Yes, the County will work with the selected contractor on schedule due to any material shortages.
- 7. It appears that the distance between top of deck and bottom of beam will be much greater than the ground clearance in most locations. To achieve the depth required to get all wood members in place will require excavation which will likely hit top of existing support post footing or undermine the footing. Could smaller joist/beams be used in this area or should contractor take replacing the post in to consideration while rebuilding? It appears that the post/footing replacement will be much more the 275 allotted for the project. We recognize that some elements of the structure at transitions between at-grade concrete trail and proposed boardwalk will be buried. We expect the contractor will grade to drain to ensure the stringers are out of the ground as guickly as possible over the first couple of spans. If the posts need to be replaced in these first couple of spans to complete construction then that is understandable. The 275 post is an estimate of 20% replacement of the posts. The is responsible for inspecting and replacing post that are not in good structural condition in coordination with the County. It is possible that more post will be required to be replaced, and if so, will be done for the provided unit price for each additional post. The joist/beams shall be as shown on the plans.

- 8. Will the trail section from McFarland rd. to Union Hill trail head be closed for the duration of the construction to protect pedestrians or will only the areas under construction be closed? Yes, the County will close the entire section from McFarland Road to the Union Hill Road Trailhead for the duration of construction. Contractor to ensure to place appropriate signage and barriers.
- 9. Will there be any additional access provided by the owner for the concrete portions of the trail? The available access to the trail is from the existing trailheads and trail itself.
- 10. Regarding the treatment level shown on the plans, ACZA (ammoniacal copper zinc arsenate) is predominantly used to treat Douglas-fir. It is not available for SYP and, as it contains arsenic, would not be EPA approved for use in a pedestrian structure. (It could be acceptable for structural members determinate on design criteria.) The primary non-arsenical preservative currently offered is Copper Azole (CA-C). One other point related to the wood preservative was it appeared they were requesting a 0.80 lb./cu. ft. retention level for handrail posts. This retention level is typical for round timber piling but not for sawn lumber or timbers. Sawn Lumber & Timbers, AWPA U1, Commodity Specification: Structural Framing: UC4B and Deck level and above: UC4A would be the industry standard. The CA-C Treatment is acceptable for Southern Pine. Other treatments that are acceptable for Southern Pine include ACQ (alkaline copper quarernary), MCA (micronized copper azole), and CBA (copper azole). We specified 0.80/UC4C only for substructure ports (although we only said "posts" in the plans) and 0.60/UC4B for all other wood components. The wording in the plans has been revised to ensure that all wood components have the correct treatment for sawn lumber.
- 11. On the pile caps, can you confirm the correct use of options 1 and 2? Can option 1 be used for all caps, or is it only for new posts? Is steel required for the reuse of all existing posts? Option 1 is allowable (and desired) for boardwalks 5A, 8 and 9. The others (1-6) must use Option 2. This is due to the exiting sewer line running along and under the existing boardwalks 1-6. A wooden cap is not viable where the posts are spaced 12' apart as existing to avoid sewer line relocations. Any post that are replaced shall be replaced in the same location as existing.
- 12. Would the county consider any value engineering options at the time of the bid? If so, would they need to be issued as an alternate bid schedule with an explanatory narrative? No, the bid should be made based upon the provided plans.
- 13. Will the silt fence be required to be installed in the areas where the boardwalk will be rebuilt? The specs call for top down construction methods to be used, and the installation of trenched in silt fence will create a significant amount of disturbance. Silt fence may be omitted at boardwalks 1-6 where all work is required to be performed from the top of

- boardwalk. The contractor shall be responsible for maintaining sediment within the entirety of the work zones and silt fence is required in all areas of ground disturbance.
- 14. Will the top rail need to be composite, or would a timber product be considered? The top rail shall be composite as shown on the plans.
- 15. -Once the boardwalk is complete and has been pressure washed, will an application of wood sealant be required once the new wood has been allowed to dry? *No.*
- 16. Will the county provide a unit price line item for curbing and handrail? The contractor shall replace the curbing and handrail as existing along the trail. A unit price line item has been added to establish costs and to estimate the amount of curbing and handrailing required.
- 17. Should it be assumed that the longitudinal bracing will be replaced anywhere the posts are replaced? Yes.
- 18.- Is it possible that one post would be retained and the other replaced, or should they be replaced as a pair as needed? It is possible that only one post is replaced if the other is in good structural condition.
- 19.- On sheet 35-0002, there are two details for the pile caps. Option 1 says for all new construction, while option 2 says for reused posts. Would the county consider as an alternate the exclusive use of the timber caps? If so, could there be an alternate consideration for a solid beam cap? Option 1 is for locations where the existing posts much be reused at their 12' wide spacing in order to avoid conflicts with the existing sanitary sewer line. A timber cap is not structurally sufficient for the reuse of the existing posts. Option 2 is acceptable for all other locations as shown and noted in the plans.
- 20.- On sheet 04-0001, note 6 states that the boardwalks will be built using top down construction, and no equipment will be allowed in the wetlands. Will type C be required for the length as it appears, or will be it be installed judiciously at the direction of the project manager? Yes, type C silt fence is required for the length as shown on the detail on drawing 05-0001.
- 21.- Will a county representative be on site daily with decision making power to make determinations regarding the re-use of piles as the segments are demolished so that progress is not delayed? Staff will be made available as necessary.

#### End of Addendum #1

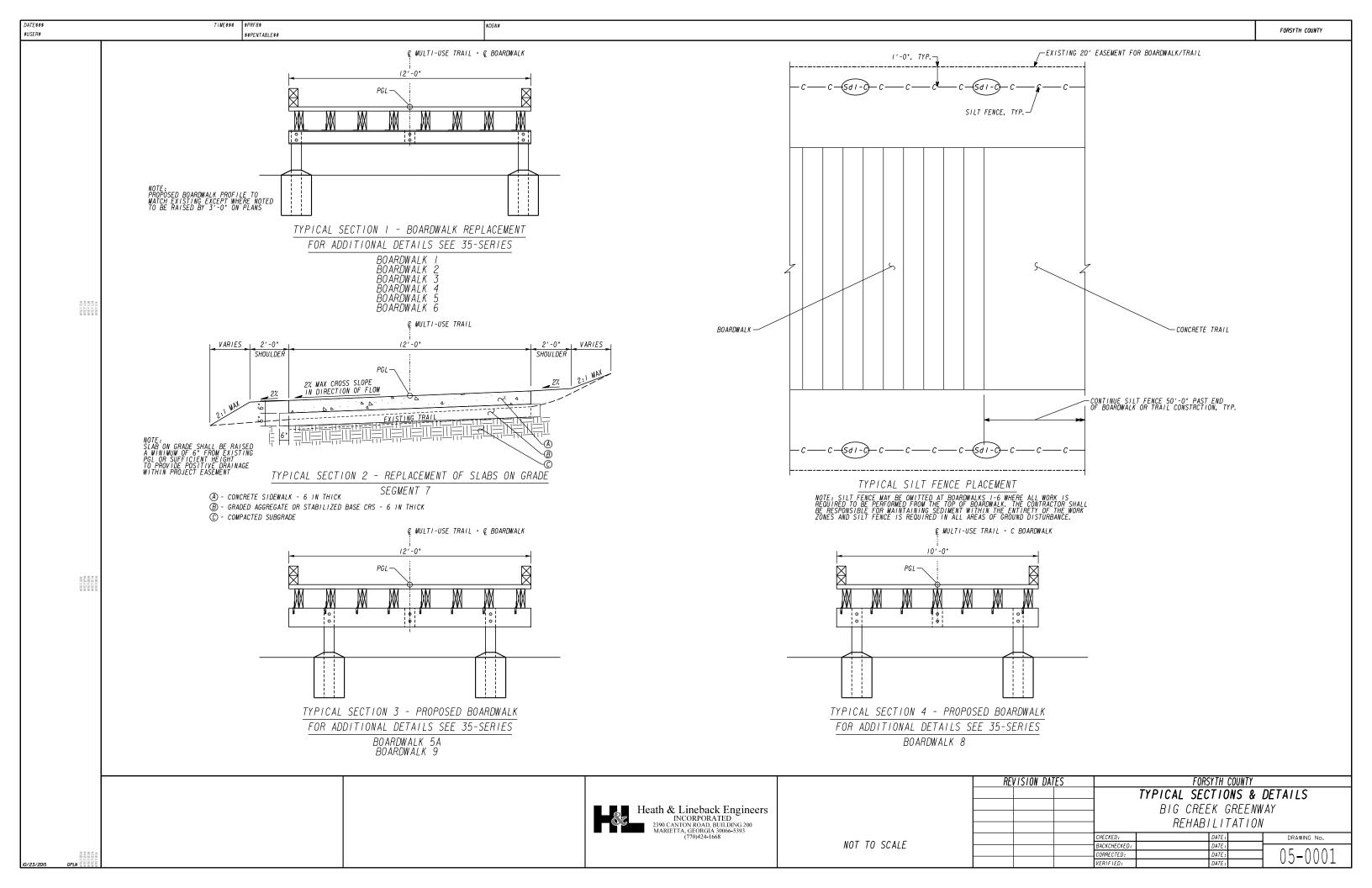
# Forsyth County BID SCHEDULE 20-83-5212 REVISED ADDENDUM #1

Big Creek Greenway Rehabilitation Segment 1

	Big Creek Greenway Kenabi	litation Segment	<u> </u>		
Pay Item #	Item Description	Qty.	Unit	Unit Price	Total
	Trail				
210-0100	GRADING COMPLETE	1	LS		
310-5060	GR AGGR BASE CRS, 6 INCH, INCL MATL	599	SY		
441-0106	CONC SIDEWALK, 6 IN	554	SY		
550-2150	SIDE DRAIN PIPE, 15 IN, H 1-10 (AS DIRECTED)	100	LF		
				Sub Total	
	Erosion Control				
163-0232	TEMPORARY GRASSING	1	AC		
163-0240	MULCH	6	TN		
163-0300	CONSTRUCTION EXIT	4	EA		
165-0010	MAINTENANCE OF TEMPORARY SILT FENCE, TP A	10,358	LF		
165-0101	MAINTENANCE OF CONSTRUCTION EXIT	4	EA		
171-0030	TEMPORARY SILT FENCE, TYPE C	20,716	LF		
700-6910	PERMANENT GRASSING	1	AC		
700-7000	AGRICULTURAL LIME	3	TN		
700-8000	FERTILIZER MIXED GRADE	2	TN		
700-8100	FERTILIZER NITROGEN CONTENT	50	LB		
				Sub Total	
	Signing & Marking				
	SOLID TRAFFIC STRIPE, 4 IN, WHITE (PAINT)	370	LF		
				Sub Total	
	Boardwalks				
540-1102	REMOVAL OF EXISTING BR, BOARDWALK 1	1	LS		
	BOARDWALK 1	1	LS		
540-1102	REMOVAL OF EXISTING BR, BOARDWALK 2	1	LS		
	BOARDWALK 2	1	LS		
540-1102	REMOVAL OF EXISTING BR, BOARDWALK 3	1	LS		
	BOARDWALK 3	1	LS		
540-1102	REMOVAL OF EXISTING BR, BOARDWALK 4	1	LS		
	BOARDWALK 4	1	LS		
	DEMOVAL OF EVICTING DR. DO 100100000		1.5		
540-1102	REMOVAL OF EXISTING BR, BOARDWALK 5	1	LS		
	BOARDWALK 5	1	LS		

	BOARDWALK 5A	1	LS			
540-1102	REMOVAL OF EXISTING BR, BOARDWALK 6	1	LS			
	BOARDWALK 6	1	LS			
	BOARDWALK 8	1	LS			
	BOARDWALK 9	1	LS			
	REPLACE 6x6 TIMBER BOARDWALK POST (AS DIRECTED)	275	EA			
	TIMBER HANDRAIL	3,940	LF			
	TIMBER CURB	14,436	LF			
				Sub Total		
	TOTAL PROJECT CONSTRUCTION =					

Authorized Signature	Date
Print Name and Title	Company Name



FORSYTH COUNTY \$USER\$ \$\$PENTABLE\$\$ SUMMARY QUANTITIES GRADING COMPLETE REMOVAL OF EXISTING BR. BOARDWALK I TOTAL I LS I LS GR AGGR BASE CRS. 6 INCH. INCL MATL BOARDWALK I TOTAL 1 LS ADDITIONAL AS DIRECTED 55 SY REMOVAL OF EXISTING BR. BOARDWALK 2 CONCRETE SIDEWALK. 6 IN I LS 503 SY TOTAL ADDITIONAL AS DIRECTED 51 SY BOARDWALK 2 TOTAL I LS SIDE DRAIN PIPE, 15 IN H I-10 (AS DIRECTED) REMOVAL OF EXISTING BR. BOARDWALK 3 TOTAL 100 LF I LS SREF15s SREF14s SREF12s SREF12s CONSTRUCTION EXIT BOARDWALK 3 TOTAL 4 EA TOTAL I LS MAINTENANCE OF TEMPORARY SILT FENCE, TP C REMOVAL OF EXISTING BR. BOARDWALK 4 TOTAL 10358 LF BOARDWALK 4 MAINTENANCE OF CONSTRUCTION EXIT TOTAL I LS TOTAL 4 EA REMOVAL OF EXISTING BR, BOARDWALK 5 TEMPORARY SILT FENCE, TYPE C TOTAL TOTAL 20716 LF BOARDWALK 5 SOLID TRAFFIC STRIPE. 4 IN. WHITE (PAINT) TOTAL 1 LS TOTAL 370 LF BOARDWALK 5A TOTAL I LS FERTILIZER NITROGEN CONTENT GRASSING MULCH REMOVAL OF EXISTING BR. BOARDWALK 6 UNIT QUANTITY LB TN TOTAL I LS PERMANENT GRASSING AC 50 3 BOARDWALK 6 TEMPORARY GRASSING AC 0 3 TOTAL 1 LS TOTALS 2 50 SREF1@s SREF@9s SREF@8s SREF@7s BOARDWALK 8 TOTAL I LS BOARDWALK 9 TOTAL I LS REPLACE 6X6 TIMBER BOARDWALK POST (AS DIRECTED) TOTAL 275 EA TIMBER HANDRAIL TOTAL 3.940 LF TIMBER CURB TOTAL 14,436 LF FORSYTH COUNTY REVISION DATES SUMMARY QUANTITIES Heath & Lineback Engineers
INCORPORATED
2390 CANTON ROAD, BUILDING 200
MARIETTA, GEORGIA 30066-5393
(770424-1668 BIG CREEK GREENWAY REHABILITATION DRAWING No. BACKCHECKED:

