Sam Page
County Executive



Daniel W. Dreisewerd, P.E., PTOE Acting Director

Stephanie Leon Streeter, P.E.

Deputy Director

August 21, 2019

ADDENDUM NO. 1

Notice to All Persons and Firms Proposing to Submit a Bid or Furnish Materials for Berry Road Sidewalk St. Louis County Project No. AR-1679 Federal Project No. TAP-5443(601)

The construction contract for this project has been revised as follows:

No. 1

Replace Special Provision No. 100.10.2 "<u>Completion of Project</u>" with the attached revised copy of Special Provision No. 100.10.2 "<u>Completion of Project</u>".

No. 2

Replace Special Provision No. 100.10.3 "Working Restrictions" with the attached revised copy of Special Provision No. 100.10.3 "Working Restrictions".

No. 3

Replace Special Provision No. 100.70.3 "<u>Utility Coordination</u>" with the attached revised copy of Special Provision No. 100.70.3 "<u>Utility Coordination</u>".

No. 4

Replace Special Provision No. 1200.60.3 "Exposed Aggregate Concrete Sidewalk (4" Thick)" with the attached revised copy of Special Provision No. 1200.60.3 "Exposed Aggregate Concrete Sidewalk (4" Thick)".

No. 5

Replace bid document "Bid" with the attached revised copy of bid document "Bid".

REVISED BID DOCUMENT, "BID", IS ATTACHED AND SHOWS THE CHANGES NOTED IN ITEM NO. 5 ABOVE. FAILURE TO SUBSTITUTE THIS BID DOCUMENT MAY RESULT IN REJECTION OF THE BID.

Addendum No. 1 Berry Road Sidewalk St. Louis County Project No. AR-1679 Federal Project No. TAP-5443(601) August 21, 2019 Page 2

ATTENTION BIDDERS: THE ADDENDUM ACKNOWLEDGEMENT IN THE BID DOCUMENTS MUST BE COMPLETED AND SUBMITTED WITH ALL BID PROPOSALS.

Joseph W. Kulessa, P.E. Division Manager, Design

JWK/BJG/jlh

Attachments: Revised Special Provision No. 100.10.2, Revised Special Provision No. 100.10.3,

Revised Special Provision No. 100.70.3, Revised Special Provision No. 1200.60.3, and

Revised bid document titled "Bid".

100.10.2 COMPLETION OF PROJECT

A. The Contractor should note that the roadway work on this project will require tree removal with environmental considerations and significant utility relocations.

The remaining work on this project, as defined on the construction plans, shall commence on the date specified in the "Notice to Proceed" and completed in no later than November 13, 2020 unless additional time is granted by the Director. Due to seasonal limitations, sodding and crack sealing may be completed after the dates shown on the schedule, if authorized by the Resident Engineer.

St Louis County shall issue the "Notice to Proceed" upon completion of all contract execution procedures required to fully execute this contract and conduct a preconstruction meeting. It is anticipated that the "Notice to Proceed" will be issued no later than January 3, 2020. Should the said Notice to Proceed be delayed for any reason, the sole compensation granted to the contractor shall be a proportionate extension to the project completion date.

The tree removal work on this project, as defined on the construction plans, shall commence on the date specified in the "Notice to Proceed" and completed in not more than 15 calendar days from said commencement date unless additional time is granted by the Director.

The Contractor must perform all work necessary to coordinate and/or facilitate the utility relocation work required for this project. The Contractor may also perform any and all other available project work during this time period; provided that the utility related work is prioritized. It is anticipated that utility companies will have made notable progress by June 12, 2020 and that significant project work will be available.

- B. For all work included on this project, liquidated damages in the amount of \$1,100 per day will be charged after the expiration of the time stipulated for each and every calendar day that all work remains uncompleted.
- C. The Contractor shall begin paving operations within twenty-four (24) hours of the completion of milling operations, or as directed by the engineer. An additional \$500.00 per calendar day will be charged for each day after the expiration of the twenty-four (24) hour period specified has passed.
- D. An additional \$200.00 per hour will be charged should temporary striping/marking not begin within the time limits specified in section 621.3.2 of the "St. Louis County Standard Specifications for Road and Bridge Construction".

100.10.3 WORKING RESTRICTIONS

- A. On each of the project sites, the Contractor shall confine his operations and restrict the storage of equipment and materials to the easement areas shown on the plans. The Contractor will not be permitted to operate equipment or store material on roadways or drives that are normally in use by the public. Inclusively, the Contractor shall not conduct construction activities from the existing concrete bridge located on Parcel #10 just east of the existing/proposed box culvert; including the placement, storage, and/or transport of construction equipment and materials on/across the existing concrete bridge.
- B. The Contractor shall use every precaution to prevent damage to private and public utility lines, conduits, and other improvements. The Contractor will be responsible for all damage to any utility or other such improvement due to his operations, and shall repair or replace as necessary any such damaged facility or make payment to the owner for repair or replacement. Trees and shrubs in the easement areas not specifically marked To Be Removed (TBR) shall be carefully preserved.
- C. The Contractor shall be aware that construction operations on Berry Road could adversely impact emergency response services. To best optimize emergency response efforts during construction, all local emergency service providers must be notified of all forthcoming construction operations and any abnormal roadway traffic patterns or closures at least 48 hours in advance of such abnormal traffic patterns or closures. Coordination with all local emergency service providers shall, at minimum, begin with notification of construction commencement and continue with routine updates, as determined by the Engineer and emergency services provider contact(s), until project completion.
- D. For the protection of local endangered species, the Contractor shall schedule tree removal operations between November 1 and March 31 according to JSP #200.60.1 (Tree Removal).
- E. For the protection of local migratory birds, the Contractor shall abide to the terms and conditions set forth in JSP #800.80.1 (Restrictions for Migratory Birds).
- F. The Contractor shall coordinate with all utility companies and make accommodations for any time sensitive utility relocations required to construct this project.
- G. The Contractor shall coordinate with all utility companies to avoid multiple full road closures in completing the required utility relocations and construction of the proposed roadway improvements included in this contract. Consolidation of multiple, shorter duration full road closures into a single, longer duration full closure is highly desired. Frequent coordination with all utilities will be required to ensure that any full road closures required under this contract are implemented immediately before and/or after any full road closures required for utility work.

Design phase utility coordination efforts have rendered that a full closure of the roadway will be required to complete the watermain relocation work and the roadway work associated with this contract. All watermain relocation work will be completed by Missouri American Water Company (MAWC). The Contractor shall coordinate with MAWC to consolidate these road closures and implement all traffic control under this contract during the entire duration of this consolidated road closure; including the road closure required by MAWC.

- H. The Contractor shall comply with all project assurances resulting from land acquisition negotiations on this project. All project assurances are noted in JSP #100.80.4 (Project Assurances).
- I. The Contractor shall contact the Clif Woods Subdivision Board of Trustees two (2) weeks prior to removal of the Clif Woods subdivision sign monument (at approximate roadway Sta. 16+80 Rt.) to coordinate the salvage of any sign components desired by the said Board. The current trustees are as follows:

Ron Zimmerman Tim Hanrahan John Bugee 528 Clif Side Ct. 18 Clif Side Drive. 428 Clif Side Dr. (314) 602-2155 (314) 403-6767 (314) 963-9090

J. No direct payment will be made for compliance with this provision.

100.70.3 UTILITY COORDINATION

A. For informational purposes only, the following is a list of names, addresses, and telephone numbers of the known Utility Companies in the area of the construction work for this improvement.

<u>Utility Name</u>	Known Required Adjustment/ Relocation	Anticipated Relocation Completion Date
Yacine Anane Missouri-American Water 727 Craig Road St. Louis, MO 63141 314-996-2290 Yacine.Anane@amwater.com	Yes	October 2019 – November 2019 (New 8" Main) February 2020 – June 2020 (Valves & New 24" Main)
Brian Langenbacher Spire Energy 4118 Shrewsbury Ave Shrewsbury, MO 63119 314-768-7767 Brian.Langenbacher@SpireEnergy.com	Yes	June 2020 – November 2020 (Valves & Relocations)
Douglas O'Brien Ameren Missouri 1901 Chouteau Avenue St. Louis, MO 63103 314-206-0272 Dobrien3@ameren.com	Yes	October 2019 (Relocations)
Jim Lashley OSP Planning & Engineering (AT&T Consultant) 909 Chestnut 9-V-07 St. Louis, MO 63101 636-402-7027 jl4728@att.com	Yes	November 2019 (Relocations)
Ronald Dumke Spectrum 101 Northwest Plaza Drive St. Ann, MO 63074 636-387-6648 Ronald.dumke@charter.com	Yes	December 2019 (Relocations)

St. Louis County does not warrant that the above listing or the depiction of utility lines of facilities on other bidding documents are complete or accurately reflect either all utilities or their precise locations within or adjacent to the project limits or the status of any relocation work. It is therefore, the responsibility of the contractor to verify the above listing information indicating existence, location, and status of any facility. Such verification includes direct contact with the listed utilities.

B. Conflicts/Resolutions

 Missouri-American Water Company (MAWC) has advised that there are water valves that need adjustment. The contractor shall be responsible for contacting MAWC in a timely matter to avoid delays in making any necessary adjustments. No additional monetary compensation or working days will be made for any delays caused by the adjustments.

MAWC has also advised us that the existing 12" and 20" water mains (running along the west side of the roadway) will be critically close to the bottom of the proposed 10'x8' box culvert. To avoid damage to these mains and upgrade their existing facilities, MAWC is planning to commence replacement of the lines along the entire length of this roadway project in February of 2020. A plan of adjustment has been provided indicating that a new 24" water main will be placed near the centerline of Berry Road and that the existing 12" and 20" water mains will be abandoned and left in-place. To minimize the inconvenience to customers with water services directly connected to the existing 12" and 20" water mains, a separate 8" water main will be installed under the northbound lane from Clifside Drive to approximate Sta. 19+00. This new 8" water main will be connected to the 6" water main at Clifside Drive and all customer water service lines prior to installation of the new 24" water main. The new 8" water main will eventually be connected to the 24" water main during installation of the new 24" water main. Installation of the new 8" water main is slated to commence in October of 2019. Project schedules have been coordinated to provide one continuous full roadway closure for all 24" watermain and roadway work. Closure of the northbound lane is anticipated during installation of the new 8" water main.

Spire Energy has advised that there are gas valves that need adjustment. The contractor shall be responsible for contacting Spire Energy in a timely matter to avoid delays in making any necessary adjustments. No additional monetary compensation or working days will be made for any delays caused by the adjustments.

Spire Energy has also advised us that the existing 4" gas main (running along the east side of the roadway) will be in conflict with the proposed 10'x8' box culvert. In addition, the existing 2" gas line at Hillard Road will be in conflict with the proposed storm sewer system.

Relocations will most likely occur during construction for the 4" main and just prior to construction for the 2" line. Construction of the proposed roadway improvements is anticipated to commence in June of 2020. A plan of adjustment has been provided and approved.

- 3. Ameren Missouri has advised us that the existing electric lines/power poles (running along the west side of the roadway) will be in conflict with the proposed sidewalk. In addition, relocation of the existing poles will require a scheduled power outage at their nearby 34kV transmission facility. Ameren has indicated that scheduled power outages at their transmission facilities are not recommended between the months of June and September due to typical extreme summer weather conditions and increased power demand. As a result, relocations are scheduled to commence in October of 2019. A plan of adjustment has been provided and approved.
- 4. AT&T has advised that they have facilities along the project; which are located on Ameren's power poles. As a result, relocation of AT&T's facilities will occur in conjunction with the relocation of Ameren's power poles. As a result, relocations are scheduled to commence in November of 2019.
- 5. Charter Communications has advised that they have facilities along the project; which are located on Ameren's power poles. As a result, relocation of Charter's facilities will occur in conjunction with the relocation of Ameren's power poles. As a result, relocations are scheduled to commence in December of 2019.
- C. The contractor agrees that any effects of the presence of the utilities, their relocation, contractor's coordination of work with the utilities and any delay in utility relocation shall not be compensable as a suspension of work, extra work, a change in the work, as a differing site condition or otherwise including, but without limitation, delay, impact, incidental or consequential damages. The contractor's SOLE REMEDY for the effects of the presence of utilities, delay in their relocation or any other effects shall be an excusable delay as provided in Section 105.7.3. The contractor waives, for itself, its subcontractors and suppliers the compensability of the presence of utilities, delay in their relocation, and any cost to the contractor, its subcontractors, and suppliers in any claim or action arising out of or in relation to the work under the contract.
 - 1. The contractor's Work Schedule, required by Section 107.5.1 of the St. Louis County Standard Specifications for Road and Bridge Construction, shall reflect coordination of the contractor's work with that of utility relocation including, without limitation, all dependencies of the contractor's or its subcontractor's work upon relocation of utility lines and facilities and the effects of the utility relocations on the required order of work provided in other parts of the contract documents.
 - 2. The contractors shall be solely responsible and liable for incidental and consequential damages, to any utility facilities or interruption of the service caused by it or its subcontractor's operations. The contractor shall hold and save harmless St. Louis County from all damages to any utility facilities or interruption of service by it or its subcontractors' operations.
 - 3. No direct payment will be made for the contractor's compliance with above special provision.
 - 4. The requirements of this Special Provision are in addition to or supplement to Sections 105.7 through 105.7.6 of the Specifications and are not a replacement of them except, unless and only to the extent there is direct conflict between these provisions and those of the Specifications.

- D. It is the responsibility of the Contractor and sub-contractors performing work to contact the Missouri One Call System, Inc. at 1-800-344-7483 (and also St. Louis County Operations Division about signal and/or lighting conduit at 314-615-0215) at least two (2) full working days, but not more than ten (10) working days, before commencing the excavation activity, as per Missouri State Law. The Contractor requesting the locations shall provide all utilities with the project number and area. He shall also specify on which streets construction will be performed and what dates it will begin. If only parts of a street are to be done, the Contractor shall provide street segments affected between the closest intersections. Specific start dates must be given for each street so all utilities can schedule the field locations.
- E. It shall be noted by the contractor that MoDOT is a member of Missouri One Call (800 Dig Rite). Some work on this project may be in the vicinity of MoDOT utility facilities, which includes but is not limited to traffic signal cables, highway lighting conduits, ITS cables, cathodic protection cables, etc. Prior to beginning work, the contractor shall request locates from Missouri One Call. The contractor shall also complete the Notice of Intent to Perform Work form located at the Missouri Department of Transportation website:

http://www.modot.mo.gov/asp/intentToWork.shtml

The contractor shall submit the form over the web (preferred method) or by fax to the numbers on the printed form. The notice must be submitted a minimum of 2 and a maximum of 10 working days prior to excavation just as Missouri One Call requires.

1200.60.3 EXPOSED AGGREGATE CONCRETE SIDEWALK (4" THICK)

Description

This work shall consist of constructing exposed aggregate concrete sidewalk, 4-inch thick, in conformity with the lines, grades, dimensions, and typical sections indicated on the plans, or as directed by the engineer. Exposed aggregate concrete sidewalk shall be constructed on a prepared aggregate base. Exposed aggregate concrete sidewalk to be constructed with glacial aggregate and finished to accommodate pedestrian traffic.

Materials

A. All materials shall conform to Division 1000, Materials Details, and specifically as follows:

Item	Section
Class "A" Excavation	203
Materials for Joints	1057

- 1. Concrete sidewalks shall be constructed as specified in the St. Louis County Standard Specifications for Road and Bridge Construction and the Construction Requirements outlined in this special provision. Materials, proportioning, airentrainment, mixing, slump, and transporting of Portland cement concrete shall be in accordance with Section 501, except as modified herein. Concrete shall be placed, finished, and cured in accordance with the applicable provisions of Section 502 and 703, except as modified herein.
- 2. Exposed Aggregate Materials.
 - a. Coarse Aggregate: Coarse aggregate for the modified concrete mix shall be a multi-colored, clean, hard, and rounded (not crushed) Illinois glacial stone meeting the following gradation requirements:

Sieve Size	Percent Passing
³¼" (19 mm)	100
3/8" (9.5 mm)	5-15
#4 (4.75 mm)	0-10
#200 (75 µm)	0-2

- b. Fine Aggregate: Fine aggregate shall meet the requirements of Section 1005 and shall not consist of Meramec River sand.
- c. Cement: Portland cement shall be Type I in conformance with Section 1019.

- d. Water: Water shall me the requirements of Section 1070.
- 3. Surface Retarding Agent. The surface of the exposed aggregate concrete shall be treated, at the time of placement, with a water-soluble, non-flammable concrete surface retardant to expose the surface aggregate. Removal of the retarded concrete shall be accomplished by a combination of low-pressure water methods (garden hose with spray nozzle) and stiff broom. Application of the surface retarding agent shall take place immediately after the water sheen is no longer visible on the concrete surface and be applied at a rate to retard the set from ½ inch (10 mm) to 1/16 inch (1.6 mm) from the top of original concrete surface. The surface retardant shall be applied in accordance with the manufacturer's instructions. The following materials are approved for use as a surface set retarding agent:

Product Trade Name	Manufacturer
RUGGSOL-S	Sika
Dealy S	Conspec
Certi-Vex Envio Set	Vexcon, Inc.
True Etch Surface Retarder	Burke by Edoco
Tuf-Cote Gray	Preco Industries
Etch-Pro	Tremcrete Systems, Inc.

- a. The Contractor shall submit to the Engineer for approval, the brand name, manufacturer and MSDS of other proposed surface retardants prior to construction of the exposed aggregate concrete. The surface retardant shall be stored, handled, applied and removed in accordance with the manufacturer's instructions.
- 4. Exposed Aggregate Concrete Mix Design. The Contractor may submit a mix design to the Engineer, in accordance with Section 501, 14 calendar days in advance of its' intended use or use the following County approved mix:

Expand Aggregate Congrete	Proportions	
Exposed Aggregate Concrete	English	Metric
Type I Cement	564 lbs	256 kg
Sand (SSD weights)	1120 lbs	508 kg
Aggregate (SSD weights)	1850 lbs	839 kg
Design Water	245 lbs / 29.5 gal	111 kg / 111L
Maximum Water	280 lbs / 33.6 gal	127.0 kg / 127.0 L
Min/Max. Slump	2 in / 4 in	50mm / 100 mm
Entrained Air	6.5 ± 1.5%	
28-day min. compressive strength	3500 psi	24 MPa

5. Expansion Joint. Expansion joints shall be constructed in the exposed aggregate concrete at such intervals and locations as shown on the plans or as directed by the Engineer. The expansion joint filler shall extend to full depth and width of construction and be removed to 1/2 inch (12 mm) below original top of concrete and the space sealed with approved sealant as specified in the Joint Sealant requirements of the Standard Specifications and/or this special provision.

Expansion joint material shall consist of a polymer closed cell foam rubber or sponge rubber product that exhibits at least 95 percent recovery when tested in accordance with ASTM D 1752.

6. Joint Sealant. The joint filler shall be sealed with a Polyurethane base, elastomeric, multi-component, chemical curing sealant that meets ASTM C 920, Type M, Grade NS, Class 25 and Federal Specification TT-S-00227, non-sag Type II, Class A (see Section 1057) and is capable of being continuously immersed in water. The joint sealant shall be tinted to the approximate color of the exposed aggregate concrete. The Contractor shall submit to the Engineer for approval, the brand name, manufacturer and MSDS of proposed joint sealant prior to construction of the exposed aggregate concrete. The joint sealant shall be stored, handled, and applied in accordance with the manufacturer's instructions. The following materials are approved for use as a joint sealant for exposed aggregate concrete:

Product Trade Name	Manufacturer
Sikflex – 2c NS	Sika
Iso-Flex 881	H. S. Peterson Co.
Vulkem 922	Mameco International
PRC 270	Product Research Corp
Sonolastic NP-II	Sonneborn

7. Exposed Aggregate Concrete Sealer. The exposed aggregate concrete finish shall be sealed with two coats of a single-component, colorless, silane or siloxane, non-water based, water repelling, chloride ion repelling, low-VOC concentration type of penetrating sealer with at least 10 percent minimum solids conforming to ASTM C 309. The Contractor shall submit to the Engineer for approval, the brand name, manufacturer and MSDS of proposed sealer prior to construction of the exposed aggregate concrete. The sealer shall be stored, handled, and applied in accordance with the manufacturer's instructions. The following materials are approved for use as exposed aggregate concrete sealer:

Product Trade Name	Manufacturer
Sil-Act ATS-42	
Sil-Act ATS-22	Advanced Chemical Tech 1-800-535-0433
Sil-Act Multigard (10 & 14% Solids)	
CONSPEC Silane 40	CONSPEC 1-800-348-7351
Chem-Trete BSM 40	Huls America, Inc. 1-800-828-0919
Rainstopper 140	
Rainstopper 120	Textured Coatings-America 1-850-769-0347
Rainstopper 1500	
Perma-Seal 444	
Perma-Seal 222	Pilgrim Permocoat, Inc 1-813-248-3328
Perma-Seal150	
Iso-Flex 14%	Lymtal 1-248-373-8100
Iso-Flex 10%	Lyiiilai 1-240-373-0100
Hydrozo Silane 40VOC	Chemrex-Sonneborn 1-800-327-1570
Pentreat 244-100	W.R. Meadows, Inc. 1-800-342-5976

Construction Requirements

- A. The Contractor shall construct a horizontal test panel of exposed aggregate concrete, including expansion joint sealer, at least 4 ft (1.5 m) in width, 4 ft (1.5 m) in length and 6 in. (150 mm) in depth using the same methods and materials that is intended to be used in construction. Production work shall not proceed until the Engineer has approved the sample. The approved test panel shall be kept at the job site until all exposed aggregate concrete work is completed and accepted by the Engineer. The test panel may be incorporated and paid for as part of the finished work if approved by the Engineer. If the test panel is not included in the finished work, the Contractor, at no additional cost to the County, shall remove it from the job site. No direct payment shall be made to construct the test panel unless incorporated in the completed exposed aggregate concrete.
- B. Excavation. Excavation shall be performed and computed as per Section 203, as specified in the contract documents, or as directed by the Engineer.
 - 1. All items shall be constructed on a 4 inch (100 mm) thick Type 5 aggregate base over a prepared subgrade and compacted to not less than the required density of the applicable material. The aggregate base shall be checked by means of a template prior to placing exposed aggregate concrete. Large rocks and boulders found in the subgrade shall be removed to a minimum of 6 inches (150 mm) below the proposed aggregate base, and the space shall be refilled with suitable materials.
- C. Forms. Forms shall be metal or sound, dressed lumber, straight, free from warp, of sufficient strength to resist springing during construction, and of a height equal to the full depth of the item to be constructed. Wood forms shall have a minimum nominal thickness of 2 inches (50 mm) except where flexible forms are used. Flexible metal forms or wood forms having a nominal thickness of 1 inch (25 mm) will be required for all curved form lines, except that straight steel form sections 10 feet (3 m) or less in length may be used for form lines having a radius greater than 200 ft (60 m). Straight steel form sections 5 feet (1.5 m) in length will be acceptable for form lines having a radius of not less than 100

feet (30 m). The forms shall be thoroughly cleaned, well oiled, securely staked, braced, and held to the required line and grade.

- D. Joints. Joints for all items shall be constructed at such intervals and locations as shown on the plans or as directed by the Engineer.
 - Transverse joints for concrete sidewalks shall be 1/2 in (3 mm) deep dummy joints made with a finishing tool. Expansion joints shall be at no more than 50 ft (15 m) intervals, as indicated in other contract documents, or as directed by the Engineer. Regardless of other details and notes shown in the contract documents, expansion joint material will be required in all new sidewalk construction at the right-of-way line.
- E. Exposed Aggregate Concrete Placement. Concrete shall be placed on the prepared and sprinkled aggregate base and shall be compacted and struck off to the required thickness. Mechanical compacting and finishing equipment may be used provided satisfactory results are obtained. The concrete shall be tamped or vibrated sufficiently to eliminate all voids and to bring the mortar to the top after which the surface shall be uniformly finished. All edges shall be rounded with an edging tool having a ¼ in. (6 mm) radius.
 - 1. Surface retardant. After free water and sheen has left the surface, the Contractor shall apply the surface retardant coating in accordance with the manufacturer's guidelines to produce a % in. (10 mm) to 1/16 in. (1.6 mm) etch of mortar after final set. The Contractor shall then remove surface mortar, accomplished by a combination of low-pressure water methods (garden hose with spray nozzle) and stiff broom. The Contractor shall avoid excessive pressure that loosens individual aggregate particles. Curing shall be continued by covering the exposed aggregate concrete surface with polyethylene sheeting or insulated curing mats (dark side up). Any staining or streaking of the exposed aggregate concrete resulting from the curing method used shall be removed before applying the sealer. Curing shall continue for a minimum of 72 hours or as directed by the Engineer.
 - Acid Wash. Following approval of the exposed aggregate concrete finish obtained, and after the 72-hour minimum cure time, a 10 percent muriatic acid wash shall be applied to the exposed aggregate concrete surfaces. Surfaces shall be flushed thoroughly with water following a 5 to 10-minute interaction period between the acid solution and the surface.
 - 3. Penetrating Sealant. The exposed aggregate concrete must be a minimum of twenty-eight (28) days old prior to the application of the sealer. The surface shall be surface-dry at the time of application. The finished surface shall be sealed with two coats, one pass longitudinally and one pass transversely, of a single-component, colorless, silane or siloxane, non-water based, water-repelling, chloride ion repelling, low-VOC concentration type of penetrating sealer with at least 10 percent minimum solids conforming to ASTM C 309. Each coat shall be applied in accordance with the manufacture's guidelines, on a clean surface free of dirt and debris.
 - 4. Backfill. After the exposed aggregate concrete has sufficiently set, the forms shall be removed and where necessary, the area adjacent to the concrete shall be backfilled with suitable material, compacted and finished in a satisfactory manner.

- 5. Weather Limitations. During cold and hot weather, the limitations and protection requirements of Section 502 shall apply to this work.
- 6. Protection of Work. The Contractor is responsible for protecting the concrete from marring, acts of vandalism and other damage at all times. Any damaged or marred exposed aggregate concrete shall be removed and replaced at the Contractor's expense.

Method of Measurement

- A. Measurement of Class "A" Excavation will be in accordance with Section 203. All excavation and all work necessary in preparing the subgrade and backfilling will be paid for as one or more of the classifications of roadway excavation. Final measurement of excavation will not be made except as set out in Section 203, as by authorized changes during construction, or where appreciable errors are found in the contract quantity. The revision or correction will be computed and added to or deducted from the contract quantity.
- B. Exposed Aggregate Concrete sidewalk will be measured to the nearest 1/10 square yard (0.10 m²). Final measurement of the completed exposed aggregate concrete will not be made except for authorized changes during construction, or where appreciable errors are found in the contract quantity. The revision or correction will be computed and added to or deducted from the contract quantity. No additional payments will be made for constructing handicap ramps.

Basis of Payment

- A. The accepted quantity of EXPOSED AGGREGATE CONCRETE SIDEWALK (4" THICK) will be measured and paid for to the nearest 1/10 square yard (0.10 m²), which price shall be full compensation for manpower, equipment and tools for: test panel construction and removal; placing and compacting Type 5 Aggregate base; forming; placing exposed aggregate concrete; providing and placing retarding agent; providing and placing joints and joint materials with sealant; providing acid wash; providing and placing exposed aggregate concrete penetrating sealant; providing and maintaining curing supplies; removal and disposal of forms and curing materials; providing, placing and compacting backfill of sidewalk; and providing all material certifications. In addition:
 - 1. Class "A" Excavation will be constructed in accordance with Sec 203 and paid per cubic yard (m3).
- B. The accepted quantities of EXPOSED AGGREGATE CONCRETE SIDEWALK (4" THICK), complete in place, will be paid for at the unit bid price for each of the pay items included in the contract. No direct payment will be made for constructing joints or handicap ramps in sidewalks.

BID

Project Name: Berry Road Sidewalk County Project No.: AR-1679 Federal Job No.: TAP-5443(601)

Limits: Gramercy Place to Brownell Avenue

TO: St. Louis County, acting by and through the St. Louis County Council, Clayton, Missouri

- 1. DESCRIPTION. For constructing (or improving) the project designated above, consisting of the replacement of an existing 8'x9' box culvert with a 10'x8' box culvert, guardrail replacement, pavement surfacing and texturing, Superpave asphaltic concrete overlay, and the installation of storm sewer, curb, curb & gutter, sidewalk, curb ramps, and retaining walls along approximately 0.20 miles of Berry Road from Gramercy Place to Brownell Avenue within St. Louis County and other incidental items necessary to complete the above in a workmanlike manner.
- 2. SPECIFICATIONS, CONTRACT AND BOND. The specifications, contract and bond governing the construction of the work contemplated are those known and designated as the St. Louis County Department of Transportation Standard Specifications for Road and Bridge Construction, approved by the St. Louis County Council, together with the "Special Provisions, Job and General," if any, attached to this bid.
- 3. PLANS. The plans herein referred to are plans approved by the Director and marked with the project and section numbers set out above, together with all standard or special designs that may be designated in such plans.
- 4. MISCELLANEOUS. The undersigned, as bidder, declares that the only persons or parties interested in this bid as principal are those named herein; that this bid is made without collusion or combination of any kind or character with any other person, firm, association or corporation, or any member or officer thereof; that he has carefully examined the location of the proposed work, the plans, Standard Specifications, and special provisions heretofore mentioned, and the form of contract and contract bond; that he proposes, and agrees, if this bid is accepted, to execute the contract and bond and secure execution of the bond by satisfactory surety and to provide all necessary machinery, tools, apparatus and other means of construction, and will do all the work and furnish all the materials specified in the contract in the manner and time therein prescribed, and in accordance with the requirements of the Director as therein set forth; and that he will accept in full payment therefore the amount or amounts certified by the Director in accordance with the bid, specifications and contract.
- 5. NONDISCRIMINATION. The undersigned, as bidder, understands that in any project involving participation of federal funds, the bidder awarded the contract will be required to comply, and to cause his subcontractors, if any, to comply, with all federal statutes, regulations and directives concerning discrimination against any person in connection with the contract, on account of race, color, religion, creed, sex, age, ancestry, or national origin, and that such nondiscrimination extends to procurement of materials and lease of equipment for use in connection with the contract.
- 6. QUANTITIES. It is understood by the undersigned that the quantities given in the following itemized bid are not guaranteed by the County and are used solely for the purpose of comparing bids and awarding the contract, and may or may not represent the actual quantities encountered on the job; and that the sum of the products of the

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quantities listed in the following itemized bid, multiplied by the unit price bid, shall constitute the gross sum bid.

- 7. ITEMIZED BID. The undersigned submits the following itemized bid and hereby authorizes the Director to correct any multiplication of "Unit Price" by "Quantity" as shown under "Amount" when copying the itemized bid sheet(s) into any contract.
- 8. TIME FOR COMPLETION. If this bid is accepted the undersigned hereby agrees that work will begin not later than the authorization date in the Notice to Proceed and will be diligently prosecuted at such rate and in such manner as, in the judgment of the Director, is necessary for the completion of the work within the time specified as follows:

Calendar Days for Clearing Work: 15 Completion Date (All Work): November 13, 2020

9. LIQUIDATED DAMAGES. The undersigned further agrees that, should he fail to complete the work on the date, or in the time specified, or such additional time as may be allowed by the Director under the contract, the amount of liquidated damages to be recovered, in accordance with the requirements of Section 108.7 of the Standard Specifications, shall survive as follows:

Liquidated Damages Per Day: \$1,100

Failure to begin temporary striping within the time specified:

Liquidated Damages Per Hour: \$ 200.00

- 10. BID GUARANTEE. The undersigned submits and attaches to this bid a bid guarantee meeting the following requirements: Each Bid shall be accompanied by a certified check or cashier's check equal to five (5) percent of the total bid, payable to "Treasurer, St. Louis County", to the use of the County, or a bidders bond, in like sum, executed by a surety company authorized to so business in the State of Missouri, as a guarantee on the part of the bidder that if its bid be accepted, it will, within ten (10) days after receipt of notice of such acceptance, enter into a contract and bond to do the work advertised; and, in case of default, forfeit such bid guaranty. The provisions of Section 103.4.1 shall also apply to this bid guaranty. Bid guarantees will be returned as per Section 103.3, Standard Specifications.

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12.		The undersigned designates the following person(s) as the regarding this bid proposal and contract execution.
	Contact Name:	
	Contact E-Mail Address:	
	Phone Number:	Fax Number:
	Contact Mailing Address:	