**Osage Beach Fire Protection District**

**Bid Specifications for Concrete Parking Lot and Repair**

The Osage Beach Fire District is accepting individual bids for a Concrete Drive area in front of Station 2:

**Station 2**

**6186 Fire Station Road**

**Osage Beach, MO 65065**

Bids are due no later than Thursday, October 13th at 4:00 pm

Bid packets may be obtained at Station 1 Headquarters or from [www.obfire.com](http://www.obfire.com)

Bids are required to be **Sealed Bids** and envelopes should be clearly marked:

**Concrete Apron Replacement**

**Bids to be received at**

**Osage Beach Fire District**

**1170 Bluff Drive**

**Osage Beach MO 65065**

**Each Bidder is required to do a site visit to obtain exact measurements and grades**. Please contact the District Headquarters to set up a time. 573-348-1221.

**Note: This project will require not less than the prevailing rate of wages, as set out in the wage order attached to and made part of the specification for work under the contract, must be paid to all workers performing work under the contract.**

**Missouri Division of Labor Standards Annual Wage Order No. 29 Section 015 Camden County**

**The Osage Beach Fire Protection District has the final decision based upon which bid best suits the needs of the Fire District and not necessarily solely upon the lowest bid price.**

**Description**

1. Removal and replacement of existing concrete drive sections of the private driveway area in front of Station two and which shares the parking lot with RP Lumber. The Drive sections are marked in orange paint, the size of sections is approximately 66’-0’’x38’-0’’ and 48’-0’’x 38’-0’’.
2. Replacement of concrete shall meet specifications as outlined in the bid package.
	1. **Excavation, filling and grading**
3. Contractor shall do all excavating of existing concrete, filling and rough grading necessary to bring the sub grade to levels that consist with on site requirements for grade and water drainage.
4. All soft or unsuitable material shall be removed and replaced with acceptable material. Any surplus excavation shall be removed when not needed in connection with the work, disposed of by the contractor at his expense. Any extra fill material necessary shall be provided by the contractor.
5. Sub-grade materials shall be a minimum of crushed stone no less than one inch in size and no less than 4 inches thick, sub-grade shall be compacted prior to placing concrete.

**Concrete Requirements**

* 1. **Cast-in-Place Concrete**
1. Scope: Furnish all labor, materials, equipment and appliances, and perform all operations in connection with the construction and installation of reinforced cast-in-place concrete work.
2. Materials:
	1. Portland cement: All cement used for structural and exposed concrete work shall be Portland cement conforming to ASTM C150 latest revision, types I or III.
	2. Fine Aggregated shall be san, and particles shall be coarse, sharp and clean. When dry, sand shall all pass a screen having ¼” square meshes and not more shall pass a 20-mesh screen than a maximum of 2%, and shall meet the requirements of ASTM C33 latest revision.
	3. Coarse Aggregate shall be wither screened, crushed rock or natural gravel, washed and graded from a maximum of 1” down to a minimum of ¼”, and must be clean, hard, and durable.
	4. Water used in the mixing of concrete shall be clean and free from deleterious amounts of acids, alkalis, oil or organic materials.
	5. Admixtures: 2% Calcium Chloride may be added to concrete for foundation and grade beam work only, all exterior slabs to have 5% to 7% entrained air.
	6. Ready-Mixed Concrete is favored and shall conform to ASTM C94. Even with air-entraining cement, the maximum period for the time when water is added and mixing starts until the concrete is delivered into the forms shall in no case exceed 1-1/2 hours. If other means of mixing concrete are used in lieu of ready-mixed, written approval of the method must be obtained from the owner.
	7. Strength: All concrete shall have a minimum compressive strength of 4000 psi after twenty-eight (28) days. No concrete shall be placed that slumps in excess of 5”. Exterior exposed concrete flatwork to be 4000 psi minimum with 5% to 7% entrained air.
3. Inspection and Testing: All tests shall be made by a testing laboratory satisfactory to the owner. The contractor shall be responsible for obtaining, handling, and delivering of test cylinders and for forwarding test reports to the owner regarding the quality of the concrete actually used. All sampling and testing shall follow ASTM standards. At least three (3) cylinders shall be taken from each day’s concreting, one for a seven (7) day test and one for a twenty-eight (28) day test.
4. Reinforcing Steel:
	1. Reinforcing steel shall be new billet steel conforming to ASTM A-615 (grade 60 for #5 and larger grade; 40 for #4 and smaller) and shall be detailed, fabricated, and placed in accordance with A.C.I. “Manual of Standard Practice”. All bar ends shall lap in accordance with A.D.I 318-71. Bars shall be free from flaws, cracks or other defects of rolling, shall be true to size and shape, and shall be free of loose scales of rust, heavy dirt, paint, grease, oil, or other destroyers of bond.
	2. Miscellaneous: Furnish reinforcing steel for all types of concrete work as indicated on the drawings.
5. Placing Concrete
	1. Concrete shall be placed in a manner that will permit the most thorough compacting and shall be placed in its final position as soon as possible after mixing and must be in place within 1-1/2 hours after the water has been added to the dry materials. It should be placed in one continuous operation from construction joint to construction joint.
6. Concrete Joints
	1. Joints shall be formed, not simply stopped off, and such forms shall generally be perpendicular to stress lines. Construction joints are best made at points of minimum shear, as for example mid-span of slabs.
	2. Contraction joints may be cut with a concrete sawing machine or may be formed by the insertion of fiberboard strips in the set concrete. Sawed joints shall be 1/8” thick and 1/3 depth of slab.
7. Protection of Concrete work:
	1. Exposed surfaces shall be protected by acceptable means such as canvas or burlap covering from sun, wind and rain and this shall be frequently wetted in dry and hot weather so that the entire surface is kept wet as to slow the curing process per ASTM standards.
8. Exterior Concrete slabs shall be 4000 PSI
	1. All exterior slabs shall be poured no less than 10 inches thick.
	2. All exterior concrete shall have a broom finish to prevent slipping.
	3. All exterior Concrete shall contain 5% to 7% entrained air.
9. Cleaning: On completion of this contract, clean down all exposed concrete work and remove from the premises, form lumber, cement cleanouts, over screed drippings, and any other debris caused by this work.
10. Shop Drawings: All steel shop drawings shall be prepared in strict accordance with ACT 315, latest revision.

**3.1 Prevailing Wage Annual Wage Order No. 29 Section 015 Camden County**

**NO EXCEPTIONS ALLOWED**

1. The contractor will forfeit a penalty to the contracting public body of $100 per day (or portion of a day) for each worker that is paid less than the prevailing wage for any work done under the contract by the contractor or by any subcontractor.
2. The contractor and all subcontractors to the contract must require all on-site employees to complete the ten hour construction safety training program required under Section 292.675 RSMo
3. The contractor will forfeit a penalty to the contracting public body of $2,500 plus an additional $100 for each employee employed by the contractor or subcontractor, for each calendar day, or portion thereof, such employee is employed without the required training
4. Every transient employer, as defined in section 285.230, RSMo, enclosed in the laws section, must post in a prominent and easily accessible plate at the work site a clearly legible copy of the following: (1) The notice of registration for employer withholding issued to such transient employer by the director of revenue (2) Proof of coverage for the workers compensation insurance or self-insurance signed by the transient employer and verified by the department of revenue through the records of the division of workers compensation and (3) The notice of registration for unemployment insurance issued to such a transient employer by the division of employment security. Any transient employer failing to comply with these requirements shall, under section 285.234, RSMo, enclosed in the laws section, shall be liable for a penalty of $500 per day until the notices required by this section are posted as required by that statute.

Total Bid Price:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Submitted By:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**EXCEPTIONS PAGE--To Be Filled Out By Bidder:**

**(All Exceptions Must be noted below)**

**1.1 Excavation, filling and grading**

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**2.1Cast-in-Place Concrete and reinforcement**

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