

CONTRACT FOR ENGINEERING SERVICES
RELATING TO PROPOSED SAND SPRINGS BRIDGE.

THIS AGREEMENT, made and executed in quadruplicate this 22nd. day of October 1928, by and between Tulsa County, Oklahoma, hereinafter called the County, First Party, acting through its Board of County Commissioners and Victor H Cochrane, Eugene N Wood and Donald Witten, of Tulsa, Oklahoma, hereinafter called the Engineers, Second Party.

WITNESSETH: That the parties hereto, in consideration of the mutual covenants herein contained, do hereby agree as follows:

SECTION 1. The First party does hereby employ the second party as Engineers to make preliminary studies, plans and estimates for a reinforced concrete bridge over the Arkansas River at or near Sand Springs, Oklahoma and after the completion of such preliminary work, in the event the first party elects to proceed with the construction of such reinforced concrete bridge, to make detailed calculations, plans, specifications and estimates for the said bridge, and to perform other services as hereinafter set forth; provided, that if after payment to the second party of the preliminary fee stipulated in Paragraph (a) of Section 5, the first party elects not to build a reinforced concrete bridge, then the provisions of this agreement relating to services other than required for the preliminary work, shall be null and void, but otherwise they shall be in full force and effect.

SECTION 2. The preliminary work to be performed by the Engineers shall be as follows:

- (a) Making studies to determine the economic type of structure and lengths of spans, to be based upon the data shown on Sheet 48 of the plans for Oklahoma Federal Aid Project No. 12;
- (b) Making preliminary calculations for the various elements of the proposed design or designs;
- (c) Preparing plans showing the proposed constructions, consisting of maps, elevations, cross sections, and general details of spans, piers and abutments.
- (d) Making estimates of quantities required for the various classes of construction involved in the work;
- (e) Preparing estimates of cost of the bridge and approaches;
- (f) Assisting in negotiations with the State Highway Department relating to the choice of design, location or similar matters, if desired by the County,

SECTION 3. The work to be performed by the Engineers pertaining to the preparation of the final working plans and specifications shall be as follows:

- (a) Making detailed calculations for all spans, piers, abutments and other elements of the reinforced concrete bridge and approaches;
- (b) Making complete working drawings and specifications covering all parts of the work, based on borings and surveys to be furnished by the State Highway Department;
- (c) Preparing a list of items for bidding purposes and an estimate of quantities involved in the various items;
- (d) Rendering such assistance as the County may desire in securing bids and awarding the contract for the construction of the bridge.

SECTION 4. In consideration of the performance of all of the engineering services hereinbefore stipulated, the first party shall pay to the second party a fee equal to three per cent (3%) of the contract cost of construction as determined by the bid prices and the estimated quantities, and the Engineers shall accept said fee as full compensation of said engineering work.

SECTION 5. The fee named in Section 4 shall be paid in the following manner:

- (a) Upon completion of the preliminary work stipulated in Section 2, a