SECTION 50
CONTROL OF WORK

50-01 AUTHORITY OF THE ENGINEER. The Engineer shall decide any and all questions which may arise as to the quality and acceptability of materials furnished, work performed, and as to the manner of performance and rate of progress of the work. He shall decide all questions which may arise as to the interpretation of the specifications or plans relating to the work, the fulfillment of the contract on the part of the Contractor, and the rights of different Contractors on the project. The Engineer shall determine the amount and quality of the several kinds of work performed and materials furnished which are to be paid under the contract.

50-02 CONFORMITY WITH PLANS AND SPECIFICATIONS. All work and all materials furnished shall be in reasonably close conformity with the lines, grades, grading sections, cross sections, dimensions, material requirements, and testing requirements that are specified (including specified tolerances) in the contract, plans or specifications.

If the Engineer finds the materials furnished, work performed, or the finished product not within reasonably close conformity with the plans and specifications but that the portion of the work affected will, in his opinion, result in a finished product having a level of safety, economy, durability, and workmanship acceptable to TxDOT, he will advise TxDOT of his determination that the affected work be accepted and remain in place. In this event, the Engineer will document his determination and recommend to TxDOT a basis of acceptance which will provide for an adjustment in the contract price for the affected portion of the work. The Engineer's determination and recommended contract price adjustments will be based on good engineering judgment and such tests or retests of the affected work as are, in his opinion, needed. Changes in the contract price shall be covered by contract modifications (change order or supplemental agreement) as applicable.

If the Engineer finds the materials furnished, work performed, or the finished product are not in reasonably close conformity with the plans and specifications and have resulted in an unacceptable finished product, the affected work or materials shall be removed and replaced or otherwise corrected by and at the expense of the Contractor in accordance with the Engineer's written orders.

If it is found that the material furnished, work performed, or the finished product is not in close conformity with the plans and specifications, the Contractor shall bear all the expenses of such recover, exposure, observation, inspection and testing and of satisfactory reconstruction including compensation for additional professional services and re-testing, and an appropriate deductive change order shall be issued.

All quality assurance costs associated with replacing or otherwise correcting any work item determined to be unacceptable shall be borne by the Contractor.
For the purpose of this subsection, the term “reasonably close conformity” shall not be construed as waiving the Contractor's responsibility to complete the work in accordance with the contract, plans, and specifications. The term shall not be construed as waiving the Engineer's right to insist on strict compliance with the requirements of the contract, plans, and specifications during the Contractor's prosecution of the work, when, in the Engineer's opinion, such compliance is essential to provide an acceptable finished portion of the work.

For the purpose of this subsection, the term “reasonably close conformity,” is also intended to provide the Engineer with the authority to use good engineering judgment in his determinations as to acceptance of work that is not in strict conformity but will provide a finished product equal to or better than that intended by the requirements of the contract, plans and specifications.

50-03 COORDINATION OF CONTRACT, PLANS, AND SPECIFICATIONS. All specifications, accompanying plans, all provisions, change orders, and supplemental agreements are intended to work together and be interpreted as a whole.

Numerical dimensions govern over scaled dimensions. Special provisions govern over plans (including general notes), which govern over standard specifications and special specifications. Job-specific plan sheets govern over standard plan sheets.

Notify the Engineer promptly of any omissions, errors, or discrepancies discovered so that necessary corrections and interpretations can be made. Failure to promptly notify the Engineer will constitute a waiver of all claims for misunderstandings or ambiguities that result from the errors, omissions, or discrepancies discovered.

50-04 COOPERATION OF CONTRACTOR. The Contractor will be supplied with two copies each of the plans and specifications. He shall have available on the work at all times one copy each of the plans and specifications. The Contractor, for the cost of reproduction, may obtain additional copies of plans and specifications.

The Contractor shall give constant attention to the work to facilitate the progress thereof, and he shall cooperate with the Engineer and his inspectors and with other contractors in every way possible. The Engineer shall allocate the work and designate the sequence of construction in case of controversy between contractors. The Contractor shall have a competent superintendent on the work at all times who is fully authorized as his agent on the work. The superintendent shall be capable of reading and thoroughly understanding the plans and specifications and shall receive and fulfill instructions from the Engineer or his authorized representative.

50-05 COOPERATION BETWEEN CONTRACTORS. TxDOT reserves the right to contract for and perform other or additional work on or near the work covered by this contract.

When separate contracts are let within the limits of any one project, each Contractor shall conduct his work so as not to interfere with or hinder the progress of completion of the work being performed by other Contractors. Contractors working on the same project shall cooperate with each other as directed.
The Contractor shall arrange his work and shall place and dispose of the materials being used so as not to interfere with the operations of the other Contractors within the limits of the same project. He shall join his work with that of the others in an acceptable manner and shall perform it in proper sequence to that of the others.

50-06 CONSTRUCTION LAYOUT AND STAKES. The Engineer shall establish horizontal and vertical control only. The Contractor must establish all layouts required for the construction of the work. Such stakes and markings, as the Engineer may set for either his own or the Contractor's guidance, shall be preserved by the Contractor. In case of negligence on the part of the Contractor, or his employees, resulting in the destruction of such stakes or markings, an amount equal to the cost of replacing the same may be deducted from subsequent estimates due the Contractor at the discretion of the Engineer.

50-07 AUTOMATICALLY CONTROLLED EQUIPMENT. Whenever batching or mixing plant equipment is required to be operated automatically under the contract and a breakdown or malfunction of the automatic controls occurs, the equipment may be operated manually or by other methods for a period of 48 hours following the breakdown or malfunction, provided this method of operations will produce results which conform to all other requirements of the contract.

50-08 AUTHORITY AND DUTIES OF INSPECTORS. Inspectors (resident project representatives) representing the Engineer by TxDOT shall be authorized to inspect all work done and all material furnished. Such inspection may extend to all or any part of the work and to the preparation, fabrication, or manufacture of the materials to be used. RPRs are not authorized to revoke, alter, or waive any provision of the contract, issue instructions contrary to the plans and specifications, or to act as foreman for the Contractor.

RPRs are authorized to notify the Contractor or his representatives of any failure of the work or materials to conform to the requirements of the contract, plans, or specifications and to reject such nonconforming materials in question until such issues can be referred to the Engineer for his decision.

RPRs are authorized to approve periodic contractor pay requests. Such approvals may be subsequently amended by the engineer.

50-09 INSPECTION OF THE WORK. All materials and each part or detail of the work shall be subject to inspection by the Engineer. The Engineer shall be allowed access to all parts of the work and shall be furnished with such information and assistance by the Contractor as is required to make a complete and detailed inspection.

If the Engineer requests it, the Contractor, at any time before acceptance of the work, shall remove or uncover such portions of the finished work as may be directed. After examination, the Contractor shall restore said portions of the work to the standard required by the specifications. Should the work thus exposed or examined prove acceptable, the uncovering, or removing, and the replacing of the covering or making good of the parts removed, will be paid for as extra work; but should the work so exposed or examined prove
unacceptable, the uncovering, or removing, and the replacing of the covering or making
good of the parts removed, will be at the Contractor's expense.

Any work done or materials used without supervision or inspection by an authorized
representative of TxDOT may be ordered removed and replaced at the Contractor's expense
unless TxDOT's representative failed to inspect after having been given reasonable notice
in writing that the work was to be performed.

Should the contract work include relocation, adjustment, or any other modification to
existing facilities, not the property of the (contract) owner, authorized representatives of
Owner/TxDOTs of such facilities shall have the right to inspect such work. Such
inspection shall in no sense make any facility owner a party to the contract, and shall in no
way interfere with the rights of the parties to this contract.

50-10 REMOVAL OF UNACCEPTABLE AND UNAUTHORIZED WORK. All work
which does not conform to the requirements of the contract, plans, and specifications will
be considered unacceptable, unless otherwise determined acceptable by the Engineer as
provided in the subsection titled CONFORMITY WITH PLANS AND SPECIFICATIONS
of this section.

Unacceptable work, whether the result of poor workmanship, use of defective materials,
damage through carelessness, or any other cause found to exist prior to the final acceptance
of the work, shall be removed immediately and replaced in an acceptable manner in
accordance with the provisions of the subsection titled CONTRACTOR'S
RESPONSIBILITY FOR WORK of Section 70.

Work done contrary to the instructions of the Engineer, work done beyond the lines shown
on the plans or as given, except as herein specified, or any extra work done without
authority, will be considered as unauthorized and will not be paid for under the provisions
of the contract. Work so done may be ordered removed or replaced at the Contractor's
expense.

Upon failure on the part of the Contractor to comply herein with any order of the Engineer
made under the provisions of this subsection, the Engineer will have authority to cause
unacceptable work to be remedied or removed and replaced and unauthorized work to be
removed and to deduct the costs from any monies due or to become due the Contractor.

50-11 LOAD RESTRICTIONS. The Contractor shall comply with all load restrictions in the
hauling of materials on public roads and airport property beyond the limits of the work. A
special permit will not relieve the Contractor of liability for damage that may result from
the moving of material or equipment.

The operation of equipment of such weight or so loaded as to cause damage to structures or
to any other type of construction will not be permitted. Hauling of materials over the base
course or surface course under construction shall be limited as directed. No loads will be
permitted on a concrete pavement, base, or structure before the expiration of the curing
period. The Contractor shall be responsible for all damage done by his hauling equipment
and shall correct such damage at his own expense.

50-12 MAINTENANCE DURING CONSTRUCTION. The Contractor shall maintain the work during construction and until the work is accepted. This maintenance shall constitute continuous and effective work prosecuted day by day, with adequate equipment and forces so that the work is maintained in satisfactory condition at all times.

In the case of a contract for the placing of a course upon a course or sub-grade previously constructed, the Contractor shall maintain the previous course or sub-grade during all construction operations.

All costs of maintenance work during construction and before the project is accepted shall be included in the unit prices bid on the various contract items, and the Contractor will not be paid an additional amount for such work.

50-13 FAILURE TO MAINTAIN THE WORK. Should the Contractor at any time fail to maintain the work as provided in the subsection titled MAINTENANCE DURING CONSTRUCTION of this section, the Engineer or RPR shall immediately notify the Contractor of such noncompliance. Such notification shall specify a reasonable time within which the Contractor shall be required to remedy such unsatisfactory maintenance condition. The time specified will give due consideration to the urgency that exists.

Should the Contractor fail to respond to the Engineer's notification, the Engineer may suspend any work necessary for the Owner or TxDOT to correct such unsatisfactory maintenance condition, depending on the exigency that exists. Any maintenance cost incurred by the Owner or TxDOT shall be deducted from monies due or to become due the Contractor.

50-14 PARTIAL ACCEPTANCE. If at any time during the prosecution of the project the Contractor substantially completes a usable unit or portion of the work, the occupancy of which will benefit TxDOT and the Sponsor, he may request the Engineer to make final inspection of that unit. If the Engineer finds upon inspection that the unit has been satisfactorily completed in compliance with the contract, he may accept it as being completed, and the Contractor may be relieved of further responsibility for that unit. Such partial acceptance and beneficial occupancy by the Sponsor shall not void or alter any provision of the contract.

50-15 FINAL ACCEPTANCE. Upon due notice from the Contractor of presumptive completion of the entire project, the Engineer and owner will make an inspection. If all construction provided for and contemplated by the contract is found to be completed in accordance with the contract, plans, and specifications, such inspection shall constitute the final inspection. The Engineer shall notify the Contractor in writing of final acceptance as of the date of the final inspection.

If, however, the inspection discloses any work, in whole or in part, as being unsatisfactory, the Engineer will give the Contractor the necessary instructions for correction of same and the Contractor shall immediately comply with and execute such instructions. Upon
correction of the work, another inspection will be made which shall constitute the final inspection, provided the work has been satisfactorily completed. In such event, the Engineer will make the final acceptance and notify the Contractor in writing of this acceptance as of the date of final inspection.

50-16 CLAIMS FOR ADJUSTMENT AND DISPUTES. If for any reason the Contractor deems that additional compensation is due him for work or materials not clearly provided for in the contract, plans, or specifications or previously authorized as extra work, he shall notify the Engineer in writing of his intention to claim such additional compensation before he begins the work on which he bases the claim. If such notification is not given or the Engineer is not afforded proper opportunity by the Contractor for keeping strict account of actual cost as required, then the Contractor hereby agrees to waive any claim for such additional compensation. Such notice by the Contractor and the fact that the Engineer has kept account of the cost of the work shall not in any way be construed as proving or substantiating the validity of the claim. When the work on which the claim for additional compensation is based has been completed, the Contractor shall, within 10 calendar days, submit his written claim to the Engineer who will present it to TxDOT for consideration.

Nothing in this subsection shall be construed as a waiver of the Contractor's right to dispute final payment based on differences in measurements or computations.

50-17 COST REDUCTION INCENTIVE. The provisions of this subsection will apply only to contracts awarded to the lowest bidder pursuant to competitive bidding.

On projects with original contract amounts in excess of $100,000, the Contractor may submit to the Engineer, in writing, bids for modifying the plans, specifications or other requirements of the contract for the sole purpose of reducing the cost of construction. The cost reduction bid shall not impair, in any manner, the essential functions or characteristics of the project, including but not limited to service life, economy of operation, ease of maintenance, desired appearance, design and safety standards. This provision shall not apply unless the bid submitted is specifically identified by the Contractor as being presented for consideration as a value engineering bid.

Not eligible for cost reduction bids are changes in the basic design of a pavement type, runway and taxiway lighting, visual aids, hydraulic capacity of drainage facilities, or changes in grade or alignment that reduce the geometric or functional standards of the project.

As a minimum, the Contractor with each bid shall submit the following information:

a. A description of both existing contract requirements for performing the work and the proposed changes, with a discussion of the comparative advantages and disadvantages of each;

b. An itemization of the contract requirements that must be changed if the bid is adopted;
c. A detailed estimate of the cost of performing the work under the existing contract and under the proposed changes;

d. A statement of the time by which a change order or supplemental agreement adopting the bid must be issued;

e. A statement of the effect adoption of the bid will have on the time for completion of the contract; and

f. The contract items of work affected by the proposed changes, including any quantity variation attributable to them.

The Contractor may withdraw, in whole or in part, any cost reduction bid not accepted by the Engineer, within the period specified in the bid. The provisions of this subsection shall not be construed to require the Engineer to consider any cost reduction bid that may be submitted.

The Contractor shall continue to perform the work in accordance with the requirements of the contract until a change order or supplemental agreement incorporating the cost reduction bid has been issued. If a change order or supplemental agreement has not been issued by the date upon which the Contractor's cost reduction bid specifies that a decision should be made, or such other date as the Contractor may subsequently have requested in writing, such cost reduction bid shall be deemed rejected.

The Engineer shall be the sole judge of the acceptability of a cost reduction bid and of the estimated net savings from the adoption of all or any part of such bid. In determining the estimated net savings, the Engineer may disregard the contract bid prices if, in the Engineer's judgment such prices do not represent a fair measure of the value of the work to be performed or deleted.

TxDOT may require the Contractor to share in TxDOT's costs of investigating a cost reduction bid submitted by the Contractor as a condition of considering such bid. Where such a condition is imposed, the Contractor shall acknowledge acceptance of it in writing. Such acceptance shall constitute full authority for TxDOT to deduct the cost of investigating a cost reduction bid from amounts payable to the Contractor under the contract.

If the Contractor's cost reduction bid is accepted in whole or in part, such acceptance will be by a contract change order or supplemental agreement that shall specifically state that it is executed pursuant to this subsection. Such change order shall incorporate the changes in the plans and specifications which are necessary to permit the cost reduction bid or such part of it as has been accepted and shall include any conditions upon which the Engineer's approval is based. The change order or supplemental agreement shall also set forth the estimated net savings attributable to the cost reduction bid. The net savings shall be determined as the difference in costs between the original contract costs for the involved work items and the costs occurring as a result of the proposed change. The change order
or supplemental agreement shall also establish the net savings agreed upon and shall provide for adjustment in the contract price that will divide the net savings equally between the Contractor and TxDOT.

The Contractor's 50 percent share of the net savings shall constitute full compensation to the Contractor for the cost reduction bid and the performance of the work.

Acceptance of the cost-reduction bid and performance of the cost-reduction work shall not extend the time of completion of the contract unless specifically provided for in the contract change order or supplemental agreement.

50-18 WARRANTY. The contractor will warrant all work performed for one year from the final acceptance date. See Section 70-14, Contractor’s Responsibility for Work, paragraph D for contractors responsibility for warranty work.

END OF SECTION 50