

- B. Engineer will not supervise, direct, control, or have authority over or be responsible for Contractor's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of Contractor to comply with Laws and Regulations applicable to the performance of the Work. Engineer will not be responsible for Contractor's failure to perform the Work in accordance with the Contract Documents.
- C. Engineer will not be responsible for the acts or omissions of Contractor or of any Subcontractor, any Supplier, or of any other individual or entity performing any of the Work.
- D. Engineer's review of the final Application for Payment and accompanying documentation and all maintenance and operating instructions, schedules, guarantees, bonds, certificates of inspection, tests and approvals, and other documentation required to be delivered by Paragraph 15.06.A will only be to determine generally that their content complies with the requirements of, and in the case of certificates of inspections, tests, and approvals, that the results certified indicate compliance with the Contract Documents.
- E. The limitations upon authority and responsibility set forth in this Paragraph 10.08 shall also apply to the Resident Project Representative, if any.

10.09 *Compliance with Safety Program*

- A. While at the Site, Engineer's employees and representatives will comply with the specific applicable requirements of Owner's and Contractor's safety programs (if any) of which Engineer has been informed.

**ARTICLE 11 – AMENDING THE CONTRACT DOCUMENTS; CHANGES IN THE WORK**

11.01 *Amending and Supplementing Contract Documents*

- A. The Contract Documents may be amended or supplemented by a Change Order, a Work Change Directive, or a Field Order.
  - 1. *Change Orders:*
    - a. If an amendment or supplement to the Contract Documents includes a change in the Contract Price or the Contract Times, such amendment or supplement must be set forth in a Change Order. A Change Order also may be used to establish amendments and supplements of the Contract Documents that do not affect the Contract Price or Contract Times.
    - b. Owner and Contractor may amend those terms and conditions of the Contract Documents that do not involve (1) the performance or acceptability of the Work, (2) the design (as set forth in the Drawings, Specifications, or otherwise), or (3) other engineering or technical matters, without the recommendation of the Engineer. Such an amendment shall be set forth in a Change Order.
  - 2. *Work Change Directives:* A Work Change Directive will not change the Contract Price or the Contract Times but is evidence that the parties expect that the modification ordered or documented by a Work Change Directive will be incorporated in a subsequently issued Change Order, following negotiations by the parties as to the Work Change Directive's effect, if any, on the Contract Price and Contract Times; or, if negotiations are unsuccessful, by a determination under the terms of the Contract Documents governing adjustments, expressly including Paragraph 11.04 regarding change of Contract Price. Contractor must submit any Change Proposal seeking an

adjustment of the Contract Price or the Contract Times, or both, no later than 30 days after the completion of the Work set out in the Work Change Directive. Owner must submit any Claim seeking an adjustment of the Contract Price or the Contract Times, or both, no later than 60 days after issuance of the Work Change Directive.

3. *Field Orders:* Engineer may authorize minor changes in the Work if the changes do not involve an adjustment in the Contract Price or the Contract Times and are compatible with the design concept of the completed Project as a functioning whole as indicated by the Contract Documents. Such changes will be accomplished by a Field Order and will be binding on Owner and also on Contractor, which shall perform the Work involved promptly. If Contractor believes that a Field Order justifies an adjustment in the Contract Price or Contract Times, or both, then before proceeding with the Work at issue, Contractor shall submit a Change Proposal as provided herein.

#### 11.02 *Owner-Authorized Changes in the Work*

- A. Without invalidating the Contract and without notice to any surety, Owner may, at any time or from time to time, order additions, deletions, or revisions in the Work. Such changes shall be supported by Engineer's recommendation, to the extent the change involves the design (as set forth in the Drawings, Specifications, or otherwise), or other engineering or technical matters. Such changes may be accomplished by a Change Order, if Owner and Contractor have agreed as to the effect, if any, of the changes on Contract Times or Contract Price; or by a Work Change Directive. Upon receipt of any such document, Contractor shall promptly proceed with the Work involved; or, in the case of a deletion in the Work, promptly cease construction activities with respect to such deleted Work. Added or revised Work shall be performed under the applicable conditions of the Contract Documents. Nothing in this paragraph shall obligate Contractor to undertake work that Contractor reasonably concludes cannot be performed in a manner consistent with Contractor's safety obligations under the Contract Documents or Laws and Regulations.

#### 11.03 *Unauthorized Changes in the Work*

- A. Contractor shall not be entitled to an increase in the Contract Price or an extension of the Contract Times with respect to any work performed that is not required by the Contract Documents, as amended, modified, or supplemented, except in the case of an emergency as provided in Paragraph 7.15 or in the case of uncovering Work as provided in Paragraph 14.05.

#### 11.04 *Change of Contract Price*

- A. The Contract Price may only be changed by a Change Order. Any Change Proposal for an adjustment in the Contract Price shall comply with the provisions of Paragraph 11.06. Any Claim for an adjustment of Contract Price shall comply with the provisions of Article 12.
- B. An adjustment in the Contract Price will be determined as follows:
  1. where the Work involved is covered by unit prices contained in the Contract Documents, then by application of such unit prices to the quantities of the items involved (subject to the provisions of Paragraph 13.03); or
  2. where the Work involved is not covered by unit prices contained in the Contract Documents, then by a mutually agreed lump sum (which may include an allowance for overhead and profit not necessarily in accordance with Paragraph 11.04.C.2); or
  3. where the Work involved is not covered by unit prices contained in the Contract Documents and the parties do not reach mutual agreement to a lump sum, then on

the basis of the Cost of the Work (determined as provided in Paragraph 13.01) plus a Contractor's fee for overhead and profit (determined as provided in Paragraph 11.04.C).

- C. *Contractor's Fee*: When applicable, the Contractor's fee for overhead and profit shall be determined as follows:
1. a mutually acceptable fixed fee; or
  2. if a fixed fee is not agreed upon, then a fee based on the following percentages of the various portions of the Cost of the Work:
    - a. for costs incurred under Paragraphs 13.01.B.1 and 13.01.B.2, the Contractor's fee shall be 15 percent;
    - b. for costs incurred under Paragraph 13.01.B.3, the Contractor's fee shall be five percent;
    - c. where one or more tiers of subcontracts are on the basis of Cost of the Work plus a fee and no fixed fee is agreed upon, the intent of Paragraphs 11.04.C.2.a and 11.04.C.2.b is that the Contractor's fee shall be based on: (1) a fee of 15 percent of the costs incurred under Paragraphs 13.01.A.1 and 13.01.A.2 by the Subcontractor that actually performs the Work, at whatever tier, and (2) with respect to Contractor itself and to any Subcontractors of a tier higher than that of the Subcontractor that actually performs the Work, a fee of five percent of the amount (fee plus underlying costs incurred) attributable to the next lower tier Subcontractor; provided, however, that for any such subcontracted work the maximum total fee to be paid by Owner shall be no greater than 27 percent of the costs incurred by the Subcontractor that actually performs the work;
    - d. no fee shall be payable on the basis of costs itemized under Paragraphs 13.01.B.4, 13.01.B.5, and 13.01.C;
    - e. the amount of credit to be allowed by Contractor to Owner for any change which results in a net decrease in cost will be the amount of the actual net decrease in cost plus a deduction in Contractor's fee by an amount equal to five percent of such net decrease; and
    - f. when both additions and credits are involved in any one change, the adjustment in Contractor's fee shall be computed on the basis of the net change in accordance with Paragraphs 11.04.C.2.a through 11.04.C.2.e, inclusive.

#### 11.05 *Change of Contract Times*

- A. The Contract Times may only be changed by a Change Order. Any Change Proposal for an adjustment in the Contract Times shall comply with the provisions of Paragraph 11.06. Any Claim for an adjustment in the Contract Times shall comply with the provisions of Article 12.
- B. An adjustment of the Contract Times shall be subject to the limitations set forth in Paragraph 4.05, concerning delays in Contractor's progress.

#### 11.06 *Change Proposals*

- A. Contractor shall submit a Change Proposal to Engineer to request an adjustment in the Contract Times or Contract Price; appeal an initial decision by Engineer concerning the requirements of the Contract Documents or relating to the acceptability of the Work under the Contract Documents; contest a set-off against payment due; or seek other relief under

the Contract. The Change Proposal shall specify any proposed change in Contract Times or Contract Price, or both, or other proposed relief, and explain the reason for the proposed change, with citations to any governing or applicable provisions of the Contract Documents.

1. *Procedures:* Contractor shall submit each Change Proposal to Engineer promptly (but in no event later than 30 days) after the start of the event giving rise thereto, or after such initial decision. The Contractor shall submit supporting data, including the proposed change in Contract Price or Contract Time (if any), to the Engineer and Owner within 15 days after the submittal of the Change Proposal. The supporting data shall be accompanied by a written statement that the supporting data are accurate and complete, and that any requested time or price adjustment is the entire adjustment to which Contractor believes it is entitled as a result of said event. Engineer will advise Owner regarding the Change Proposal, and consider any comments or response from Owner regarding the Change Proposal.
  2. *Engineer's Action:* Engineer will review each Change Proposal and, within 30 days after receipt of the Contractor's supporting data, either deny the Change Proposal in whole, approve it in whole, or deny it in part and approve it in part. Such actions shall be in writing, with a copy provided to Owner and Contractor. If Engineer does not take action on the Change Proposal within 30 days, then either Owner or Contractor may at any time thereafter submit a letter to the other party indicating that as a result of Engineer's inaction the Change Proposal is deemed denied, thereby commencing the time for appeal of the denial under Article 12.
  3. *Binding Decision:* Engineer's decision will be final and binding upon Owner and Contractor, unless Owner or Contractor appeals the decision by filing a Claim under Article 12.
- B. *Resolution of Certain Change Proposals:* If the Change Proposal does not involve the design (as set forth in the Drawings, Specifications, or otherwise), the acceptability of the Work, or other engineering or technical matters, then Engineer will notify the parties that the Engineer is unable to resolve the Change Proposal. For purposes of further resolution of such a Change Proposal, such notice shall be deemed a denial, and Contractor may choose to seek resolution under the terms of Article 12.

#### 11.07 Execution of Change Orders

- A. Owner and Contractor shall execute appropriate Change Orders covering:
1. changes in the Contract Price or Contract Times which are agreed to by the parties, including any undisputed sum or amount of time for Work actually performed in accordance with a Work Change Directive;
  2. changes in Contract Price resulting from an Owner set-off, unless Contractor has duly contested such set-off;
  3. changes in the Work which are: (a) ordered by Owner pursuant to Paragraph 11.02, (b) required because of Owner's acceptance of defective Work under Paragraph 14.04 or Owner's correction of defective Work under Paragraph 14.07, or (c) agreed to by the parties, subject to the need for Engineer's recommendation if the change in the Work involves the design (as set forth in the Drawings, Specifications, or otherwise), or other engineering or technical matters; and
  4. changes in the Contract Price or Contract Times, or other changes, which embody the substance of any final and binding results under Paragraph 11.06, or Article 12.

- B. If Owner or Contractor refuses to execute a Change Order that is required to be executed under the terms of this Paragraph 11.07, it shall be deemed to be of full force and effect, as if fully executed.

11.08 *Notification to Surety*

- A. If the provisions of any bond require notice to be given to a surety of any change affecting the general scope of the Work or the provisions of the Contract Documents (including, but not limited to, Contract Price or Contract Times), the giving of any such notice will be Contractor's responsibility. The amount of each applicable bond will be adjusted to reflect the effect of any such change.

**ARTICLE 12 – CLAIMS**

12.01 *Claims*

- A. *Claims Process:* The following disputes between Owner and Contractor shall be submitted to the Claims process set forth in this Article:
  - 1. Appeals by Owner or Contractor of Engineer's decisions regarding Change Proposals;
  - 2. Owner demands for adjustments in the Contract Price or Contract Times, or other relief under the Contract Documents; and
  - 3. Disputes that Engineer has been unable to address because they do not involve the design (as set forth in the Drawings, Specifications, or otherwise), the acceptability of the Work, or other engineering or technical matters.
- B. *Submittal of Claim:* The party submitting a Claim shall deliver it directly to the other party to the Contract promptly (but in no event later than 30 days) after the start of the event giving rise thereto; in the case of appeals regarding Change Proposals within 30 days of the decision under appeal. The party submitting the Claim shall also furnish a copy to the Engineer, for its information only. The responsibility to substantiate a Claim shall rest with the party making the Claim. In the case of a Claim by Contractor seeking an increase in the Contract Times or Contract Price, or both, Contractor shall certify that the Claim is made in good faith, that the supporting data are accurate and complete, and that to the best of Contractor's knowledge and belief the amount of time or money requested accurately reflects the full amount to which Contractor is entitled.
- C. *Review and Resolution:* The party receiving a Claim shall review it thoroughly, giving full consideration to its merits. The two parties shall seek to resolve the Claim through the exchange of information and direct negotiations. The parties may extend the time for resolving the Claim by mutual agreement. All actions taken on a Claim shall be stated in writing and submitted to the other party, with a copy to Engineer.
- D. *Mediation:*
  - 1. At any time after initiation of a Claim, Owner and Contractor may mutually agree to mediation of the underlying dispute. The agreement to mediate shall stay the Claim submittal and response process.
  - 2. If Owner and Contractor agree to mediation, then after 60 days from such agreement, either Owner or Contractor may unilaterally terminate the mediation process, and the Claim submittal and decision process shall resume as of the date of the termination. If the mediation proceeds but is unsuccessful in resolving the dispute, the Claim

submittal and decision process shall resume as of the date of the conclusion of the mediation, as determined by the mediator.

3. Owner and Contractor shall each pay one-half of the mediator's fees and costs.
- E. *Partial Approval*: If the party receiving a Claim approves the Claim in part and denies it in part, such action shall be final and binding unless within 30 days of such action the other party invokes the procedure set forth in Article 17 for final resolution of disputes.
- F. *Denial of Claim*: If efforts to resolve a Claim are not successful, the party receiving the Claim may deny it by giving written notice of denial to the other party. If the receiving party does not take action on the Claim within 90 days, then either Owner or Contractor may at any time thereafter submit a letter to the other party indicating that as a result of the inaction, the Claim is deemed denied, thereby commencing the time for appeal of the denial. A denial of the Claim shall be final and binding unless within 30 days of the denial the other party invokes the procedure set forth in Article 17 for the final resolution of disputes.
- G. *Final and Binding Results*: If the parties reach a mutual agreement regarding a Claim, whether through approval of the Claim, direct negotiations, mediation, or otherwise; or if a Claim is approved in part and denied in part, or denied in full, and such actions become final and binding; then the results of the agreement or action on the Claim shall be incorporated in a Change Order to the extent they affect the Contract, including the Work, the Contract Times, or the Contract Price.

## ARTICLE 13 – COST OF THE WORK; ALLOWANCES; UNIT PRICE WORK

### 13.01 *Cost of the Work*

- A. *Purposes for Determination of Cost of the Work*: The term Cost of the Work means the sum of all costs necessary for the proper performance of the Work at issue, as further defined below. The provisions of this Paragraph 13.01 are used for two distinct purposes:
  1. To determine Cost of the Work when Cost of the Work is a component of the Contract Price, under cost-plus-fee, time-and-materials, or other cost-based terms; or
  2. To determine the value of a Change Order, Change Proposal, Claim, set-off, or other adjustment in Contract Price. When the value of any such adjustment is determined on the basis of Cost of the Work, Contractor is entitled only to those additional or incremental costs required because of the change in the Work or because of the event giving rise to the adjustment.
- B. *Costs Included*: Except as otherwise may be agreed to in writing by Owner, costs included in the Cost of the Work shall be in amounts no higher than those prevailing in the locality of the Project, shall not include any of the costs itemized in Paragraph 13.01.C, and shall include only the following items:
  1. Payroll costs for employees in the direct employ of Contractor in the performance of the Work under schedules of job classifications agreed upon by Owner and Contractor. Such employees shall include, without limitation, superintendents, foremen, and other personnel employed full time on the Work. Payroll costs for employees not employed full time on the Work shall be apportioned on the basis of their time spent on the Work. Payroll costs shall include, but not be limited to, salaries and wages plus the cost of fringe benefits, which shall include social security contributions, unemployment, excise, and payroll taxes, workers' compensation, health and retirement benefits, bonuses, sick leave, and vacation and holiday pay applicable

thereto. The expenses of performing Work outside of regular working hours, on Saturday, Sunday, or legal holidays, shall be included in the above to the extent authorized by Owner.

2. Cost of all materials and equipment furnished and incorporated in the Work, including costs of transportation and storage thereof, and Suppliers' field services required in connection therewith. All cash discounts shall accrue to Contractor unless Owner deposits funds with Contractor with which to make payments, in which case the cash discounts shall accrue to Owner. All trade discounts, rebates, and refunds and returns from sale of surplus materials and equipment shall accrue to Owner, and Contractor shall make provisions so that they may be obtained.
3. Payments made by Contractor to Subcontractors for Work performed by Subcontractors. If required by Owner, Contractor shall obtain competitive bids from subcontractors acceptable to Owner and Contractor and shall deliver such bids to Owner, who will then determine, with the advice of Engineer, which bids, if any, will be acceptable. If any subcontract provides that the Subcontractor is to be paid on the basis of Cost of the Work plus a fee, the Subcontractor's Cost of the Work and fee shall be determined in the same manner as Contractor's Cost of the Work and fee as provided in this Paragraph 13.01.
4. Costs of special consultants (including but not limited to engineers, architects, testing laboratories, surveyors, attorneys, and accountants) employed for services specifically related to the Work.
5. Supplemental costs including the following:
  - a. The proportion of necessary transportation, travel, and subsistence expenses of Contractor's employees incurred in discharge of duties connected with the Work.
  - b. Cost, including transportation and maintenance, of all materials, supplies, equipment, machinery, appliances, office, and temporary facilities at the Site, and hand tools not owned by the workers, which are consumed in the performance of the Work, and cost, less market value, of such items used but not consumed which remain the property of Contractor.
  - c. Rentals of all construction equipment and machinery, and the parts thereof, whether rented from Contractor or others in accordance with rental agreements approved by Owner with the advice of Engineer, and the costs of transportation, loading, unloading, assembly, dismantling, and removal thereof. All such costs shall be in accordance with the terms of said rental agreements. The rental of any such equipment, machinery, or parts shall cease when the use thereof is no longer necessary for the Work.
  - d. Sales, consumer, use, and other similar taxes related to the Work, and for which Contractor is liable, as imposed by Laws and Regulations.
  - e. Deposits lost for causes other than negligence of Contractor, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, and royalty payments and fees for permits and licenses.
  - f. Losses and damages (and related expenses) caused by damage to the Work, not compensated by insurance or otherwise, sustained by Contractor in connection with the performance of the Work (except losses and damages within the deductible amounts of property insurance established in accordance with Paragraph 6.05), provided such losses and damages have resulted from causes

other than the negligence of Contractor, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable. Such losses shall include settlements made with the written consent and approval of Owner. No such losses, damages, and expenses shall be included in the Cost of the Work for the purpose of determining Contractor's fee.

- g. The cost of utilities, fuel, and sanitary facilities at the Site.
- h. Minor expenses such as communication service at the Site, express and courier services, and similar petty cash items in connection with the Work.
- i. The costs of premiums for all bonds and insurance that Contractor is required by the Contract Documents to purchase and maintain.

C. *Costs Excluded:* The term Cost of the Work shall not include any of the following items:

- 1. Payroll costs and other compensation of Contractor's officers, executives, principals (of partnerships and sole proprietorships), general managers, safety managers, engineers, architects, estimators, attorneys, auditors, accountants, purchasing and contracting agents, expeditors, timekeepers, clerks, and other personnel employed by Contractor, whether at the Site or in Contractor's principal or branch office for general administration of the Work and not specifically included in the agreed upon schedule of job classifications referred to in Paragraph 13.01.B.1 or specifically covered by Paragraph 13.01.B.4. The payroll costs and other compensation excluded here are to be considered administrative costs covered by the Contractor's fee.
- 2. Expenses of Contractor's principal and branch offices other than Contractor's office at the Site.
- 3. Any part of Contractor's capital expenses, including interest on Contractor's capital employed for the Work and charges against Contractor for delinquent payments.
- 4. Costs due to the negligence of Contractor, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, including but not limited to, the correction of defective Work, disposal of materials or equipment wrongly supplied, and making good any damage to property.
- 5. Other overhead or general expense costs of any kind and the costs of any item not specifically and expressly included in Paragraph 13.01.B.

D. *Contractor's Fee:* When the Work as a whole is performed on the basis of cost-plus, Contractor's fee shall be determined as set forth in the Agreement. When the value of any Work covered by a Change Order, Change Proposal, Claim, set-off, or other adjustment in Contract Price is determined on the basis of Cost of the Work, Contractor's fee shall be determined as set forth in Paragraph 11.04.C.

E. *Documentation:* Whenever the Cost of the Work for any purpose is to be determined pursuant to this Article 13, Contractor will establish and maintain records thereof in accordance with generally accepted accounting practices and submit in a form acceptable to Engineer an itemized cost breakdown together with supporting data.

### 13.02 Allowances

- A. It is understood that Contractor has included in the Contract Price all allowances so named in the Contract Documents and shall cause the Work so covered to be performed for such sums and by such persons or entities as may be acceptable to Owner and Engineer.



- B. *Cash Allowances*: Contractor agrees that:
  - 1. the cash allowances include the cost to Contractor (less any applicable trade discounts) of materials and equipment required by the allowances to be delivered at the Site, and all applicable taxes; and
  - 2. Contractor's costs for unloading and handling on the Site, labor, installation, overhead, profit, and other expenses contemplated for the cash allowances have been included in the Contract Price and not in the allowances, and no demand for additional payment on account of any of the foregoing will be valid.
- C. *Contingency Allowance*: Contractor agrees that a contingency allowance, if any, is for the sole use of Owner to cover unanticipated costs.
- D. Prior to final payment, an appropriate Change Order will be issued as recommended by Engineer to reflect actual amounts due Contractor on account of Work covered by allowances, and the Contract Price shall be correspondingly adjusted.

### 13.03 *Unit Price Work*

- A. Where the Contract Documents provide that all or part of the Work is to be Unit Price Work, initially the Contract Price will be deemed to include for all Unit Price Work an amount equal to the sum of the unit price for each separately identified item of Unit Price Work times the estimated quantity of each item as indicated in the Agreement.
- B. The estimated quantities of items of Unit Price Work are not guaranteed and are solely for the purpose of comparison of Bids and determining an initial Contract Price. Payments to Contractor for Unit Price Work will be based on actual quantities.
- C. Each unit price will be deemed to include an amount considered by Contractor to be adequate to cover Contractor's overhead and profit for each separately identified item.
- D. Engineer will determine the actual quantities and classifications of Unit Price Work performed by Contractor. Engineer will review with Contractor the Engineer's preliminary determinations on such matters before rendering a written decision thereon (by recommendation of an Application for Payment or otherwise). Engineer's written decision thereon will be final and binding (except as modified by Engineer to reflect changed factual conditions or more accurate data) upon Owner and Contractor, subject to the provisions of the following paragraph.
- E. Within 30 days of Engineer's written decision under the preceding paragraph, Contractor may submit a Change Proposal, or Owner may file a Claim, seeking an adjustment in the Contract Price if:
  - 1. the quantity of any item of Unit Price Work performed by Contractor differs materially and significantly from the estimated quantity of such item indicated in the Agreement;
  - 2. there is no corresponding adjustment with respect to any other item of Work; and
  - 3. Contractor believes that it is entitled to an increase in Contract Price as a result of having incurred additional expense or Owner believes that Owner is entitled to a decrease in Contract Price, and the parties are unable to agree as to the amount of any such increase or decrease.

**ARTICLE 14 – TESTS AND INSPECTIONS; CORRECTION, REMOVAL OR ACCEPTANCE OF DEFECTIVE WORK**

**14.01 Access to Work**

- A. Owner, Engineer, their consultants and other representatives and personnel of Owner, independent testing laboratories, and authorities having jurisdiction will have access to the Site and the Work at reasonable times for their observation, inspection, and testing. Contractor shall provide them proper and safe conditions for such access and advise them of Contractor's safety procedures and programs so that they may comply therewith as applicable.

**14.02 Tests, Inspections, and Approvals**

- A. Contractor shall give Engineer timely notice of readiness of the Work (or specific parts thereof) for all required inspections and tests, and shall cooperate with inspection and testing personnel to facilitate required inspections and tests.
- B. Owner shall retain and pay for the services of an independent inspector, testing laboratory, or other qualified individual or entity to perform all inspections and tests expressly required by the Contract Documents to be furnished and paid for by Owner, except that costs incurred in connection with tests or inspections of covered Work shall be governed by the provisions of Paragraph 14.05.
- C. If Laws or Regulations of any public body having jurisdiction require any Work (or part thereof) specifically to be inspected, tested, or approved by an employee or other representative of such public body, Contractor shall assume full responsibility for arranging and obtaining such inspections, tests, or approvals, pay all costs in connection therewith, and furnish Engineer the required certificates of inspection or approval.
- D. Contractor shall be responsible for arranging, obtaining, and paying for all inspections and tests required:
  - 1. by the Contract Documents, unless the Contract Documents expressly allocate responsibility for a specific inspection or test to Owner;
  - 2. to attain Owner's and Engineer's acceptance of materials or equipment to be incorporated in the Work;
  - 3. by manufacturers of equipment furnished under the Contract Documents;
  - 4. for testing, adjusting, and balancing of mechanical, electrical, and other equipment to be incorporated into the Work; and
  - 5. for acceptance of materials, mix designs, or equipment submitted for approval prior to Contractor's purchase thereof for incorporation in the Work.

Such inspections and tests shall be performed by independent inspectors, testing laboratories, or other qualified individuals or entities acceptable to Owner and Engineer.

- E. If the Contract Documents require the Work (or part thereof) to be approved by Owner, Engineer, or another designated individual or entity, then Contractor shall assume full responsibility for arranging and obtaining such approvals.
- F. If any Work (or the work of others) that is to be inspected, tested, or approved is covered by Contractor without written concurrence of Engineer, Contractor shall, if requested by Engineer, uncover such Work for observation. Such uncovering shall be at Contractor's expense unless Contractor had given Engineer timely notice of Contractor's intention to

cover the same and Engineer had not acted with reasonable promptness in response to such notice.

#### 14.03 *Defective Work*

- A. *Contractor's Obligation:* It is Contractor's obligation to assure that the Work is not defective.
- B. *Engineer's Authority:* Engineer has the authority to determine whether Work is defective, and to reject defective Work.
- C. *Notice of Defects:* Prompt notice of all defective Work of which Owner or Engineer has actual knowledge will be given to Contractor.
- D. *Correction, or Removal and Replacement:* Promptly after receipt of written notice of defective Work, Contractor shall correct all such defective Work, whether or not fabricated, installed, or completed, or, if Engineer has rejected the defective Work, remove it from the Project and replace it with Work that is not defective.
- E. *Preservation of Warranties:* When correcting defective Work, Contractor shall take no action that would void or otherwise impair Owner's special warranty and guarantee, if any, on said Work.
- F. *Costs and Damages:* In addition to its correction, removal, and replacement obligations with respect to defective Work, Contractor shall pay all claims, costs, losses, and damages arising out of or relating to defective Work, including but not limited to the cost of the inspection, testing, correction, removal, replacement, or reconstruction of such defective Work, fines levied against Owner by governmental authorities because the Work is defective, and the costs of repair or replacement of work of others resulting from defective Work. Prior to final payment, if Owner and Contractor are unable to agree as to the measure of such claims, costs, losses, and damages resulting from defective Work, then Owner may impose a reasonable set-off against payments due under Article 15.

#### 14.04 *Acceptance of Defective Work*

- A. If, instead of requiring correction or removal and replacement of defective Work, Owner prefers to accept it, Owner may do so (subject, if such acceptance occurs prior to final payment, to Engineer's confirmation that such acceptance is in general accord with the design intent and applicable engineering principles, and will not endanger public safety). Contractor shall pay all claims, costs, losses, and damages attributable to Owner's evaluation of and determination to accept such defective Work (such costs to be approved by Engineer as to reasonableness), and for the diminished value of the Work to the extent not otherwise paid by Contractor. If any such acceptance occurs prior to final payment, the necessary revisions in the Contract Documents with respect to the Work shall be incorporated in a Change Order. If the parties are unable to agree as to the decrease in the Contract Price, reflecting the diminished value of Work so accepted, then Owner may impose a reasonable set-off against payments due under Article 15. If the acceptance of defective Work occurs after final payment, Contractor shall pay an appropriate amount to Owner.

#### 14.05 *Uncovering Work*

- A. Engineer has the authority to require additional inspection or testing of the Work, whether or not the Work is fabricated, installed, or completed.

- B. If any Work is covered contrary to the written request of Engineer, then Contractor shall, if requested by Engineer, uncover such Work for Engineer's observation, and then replace the covering, all at Contractor's expense.
- C. If Engineer considers it necessary or advisable that covered Work be observed by Engineer or inspected or tested by others, then Contractor, at Engineer's request, shall uncover, expose, or otherwise make available for observation, inspection, or testing as Engineer may require, that portion of the Work in question, and provide all necessary labor, material, and equipment.
  - 1. If it is found that the uncovered Work is defective, Contractor shall be responsible for all claims, costs, losses, and damages arising out of or relating to such uncovering, exposure, observation, inspection, and testing, and of satisfactory replacement or reconstruction (including but not limited to all costs of repair or replacement of work of others); and pending Contractor's full discharge of this responsibility the Owner shall be entitled to impose a reasonable set-off against payments due under Article 15.
  - 2. If the uncovered Work is not found to be defective, Contractor shall be allowed an increase in the Contract Price or an extension of the Contract Times, or both, directly attributable to such uncovering, exposure, observation, inspection, testing, replacement, and reconstruction. If the parties are unable to agree as to the amount or extent thereof, then Contractor may submit a Change Proposal within 30 days of the determination that the Work is not defective.

#### 14.06 *Owner May Stop the Work*

- A. If the Work is defective, or Contractor fails to supply sufficient skilled workers or suitable materials or equipment, or fails to perform the Work in such a way that the completed Work will conform to the Contract Documents, then Owner may order Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated; however, this right of Owner to stop the Work shall not give rise to any duty on the part of Owner to exercise this right for the benefit of Contractor, any Subcontractor, any Supplier, any other individual or entity, or any surety for, or employee or agent of any of them.

#### 14.07 *Owner May Correct Defective Work*

- A. If Contractor fails within a reasonable time after written notice from Engineer to correct defective Work, or to remove and replace rejected Work as required by Engineer, or if Contractor fails to perform the Work in accordance with the Contract Documents, or if Contractor fails to comply with any other provision of the Contract Documents, then Owner may, after seven days written notice to Contractor, correct or remedy any such deficiency.
- B. In exercising the rights and remedies under this Paragraph 14.07, Owner shall proceed expeditiously. In connection with such corrective or remedial action, Owner may exclude Contractor from all or part of the Site, take possession of all or part of the Work and suspend Contractor's services related thereto, and incorporate in the Work all materials and equipment stored at the Site or for which Owner has paid Contractor but which are stored elsewhere. Contractor shall allow Owner, Owner's representatives, agents and employees, Owner's other contractors, and Engineer and Engineer's consultants access to the Site to enable Owner to exercise the rights and remedies under this paragraph.
- C. All claims, costs, losses, and damages incurred or sustained by Owner in exercising the rights and remedies under this Paragraph 14.07 will be charged against Contractor as set-offs against payments due under Article 15. Such claims, costs, losses and damages will

include but not be limited to all costs of repair, or replacement of work of others destroyed or damaged by correction, removal, or replacement of Contractor's defective Work.

- D. Contractor shall not be allowed an extension of the Contract Times because of any delay in the performance of the Work attributable to the exercise by Owner of Owner's rights and remedies under this Paragraph 14.07.

## **ARTICLE 15 – PAYMENTS TO CONTRACTOR; SET-OFFS; COMPLETION; CORRECTION PERIOD**

### **15.01 Progress Payments**

- A. *Basis for Progress Payments:* The Schedule of Values established as provided in Article 2 will serve as the basis for progress payments and will be incorporated into a form of Application for Payment acceptable to Engineer. Progress payments on account of Unit Price Work will be based on the number of units completed during the pay period, as determined under the provisions of Paragraph 13.03. Progress payments for cost-based Work will be based on Cost of the Work completed by Contractor during the pay period.
- B. *Applications for Payments:*
1. At least 20 days before the date established in the Agreement for each progress payment (but not more often than once a month), Contractor shall submit to Engineer for review an Application for Payment filled out and signed by Contractor covering the Work completed as of the date of the Application and accompanied by such supporting documentation as is required by the Contract Documents. If payment is requested on the basis of materials and equipment not incorporated in the Work but delivered and suitably stored at the Site or at another location agreed to in writing, the Application for Payment shall also be accompanied by a bill of sale, invoice, or other documentation warranting that Owner has received the materials and equipment free and clear of all Liens, and evidence that the materials and equipment are covered by appropriate property insurance, a warehouse bond, or other arrangements to protect Owner's interest therein, all of which must be satisfactory to Owner.
  2. Beginning with the second Application for Payment, each Application shall include an affidavit of Contractor stating that all previous progress payments received on account of the Work have been applied on account to discharge Contractor's legitimate obligations associated with prior Applications for Payment.
  3. The amount of retainage with respect to progress payments will be as stipulated in the Agreement.
- C. *Review of Applications:*
1. Engineer will, within 10 days after receipt of each Application for Payment, including each resubmittal, either indicate in writing a recommendation of payment and present the Application to Owner, or return the Application to Contractor indicating in writing Engineer's reasons for refusing to recommend payment. In the latter case, Contractor may make the necessary corrections and resubmit the Application.
  2. Engineer's recommendation of any payment requested in an Application for Payment will constitute a representation by Engineer to Owner, based on Engineer's observations of the executed Work as an experienced and qualified design professional, and on Engineer's review of the Application for Payment and the accompanying data and schedules, that to the best of Engineer's knowledge, information and belief:

- a. the Work has progressed to the point indicated;
  - b. the quality of the Work is generally in accordance with the Contract Documents (subject to an evaluation of the Work as a functioning whole prior to or upon Substantial Completion, the results of any subsequent tests called for in the Contract Documents, a final determination of quantities and classifications for Unit Price Work under Paragraph 13.03, and any other qualifications stated in the recommendation); and
  - c. the conditions precedent to Contractor's being entitled to such payment appear to have been fulfilled in so far as it is Engineer's responsibility to observe the Work.
3. By recommending any such payment Engineer will not thereby be deemed to have represented that:
- a. inspections made to check the quality or the quantity of the Work as it has been performed have been exhaustive, extended to every aspect of the Work in progress, or involved detailed inspections of the Work beyond the responsibilities specifically assigned to Engineer in the Contract; or
  - b. there may not be other matters or issues between the parties that might entitle Contractor to be paid additionally by Owner or entitle Owner to withhold payment to Contractor.
4. Neither Engineer's review of Contractor's Work for the purposes of recommending payments nor Engineer's recommendation of any payment, including final payment, will impose responsibility on Engineer:
- a. to supervise, direct, or control the Work, or
  - b. for the means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or
  - c. for Contractor's failure to comply with Laws and Regulations applicable to Contractor's performance of the Work, or
  - d. to make any examination to ascertain how or for what purposes Contractor has used the money paid on account of the Contract Price, or
  - e. to determine that title to any of the Work, materials, or equipment has passed to Owner free and clear of any Liens.
5. Engineer may refuse to recommend the whole or any part of any payment if, in Engineer's opinion, it would be incorrect to make the representations to Owner stated in Paragraph 15.01.C.2.
6. Engineer will recommend reductions in payment (set-offs) necessary in Engineer's opinion to protect Owner from loss because:
- a. the Work is defective, requiring correction or replacement;
  - b. the Contract Price has been reduced by Change Orders;
  - c. Owner has been required to correct defective Work in accordance with Paragraph 14.07, or has accepted defective Work pursuant to Paragraph 14.04;
  - d. Owner has been required to remove or remediate a Hazardous Environmental Condition for which Contractor is responsible; or

- e. Engineer has actual knowledge of the occurrence of any of the events that would constitute a default by Contractor and therefore justify termination for cause under the Contract Documents.

D. *Payment Becomes Due:*

1. Ten days after presentation of the Application for Payment to Owner with Engineer's recommendation, the amount recommended (subject to any Owner set-offs) will become due, and when due will be paid by Owner to Contractor.

E. *Reductions in Payment by Owner:*

1. In addition to any reductions in payment (set-offs) recommended by Engineer, Owner is entitled to impose a set-off against payment based on any of the following:
  - a. claims have been made against Owner on account of Contractor's conduct in the performance or furnishing of the Work, or Owner has incurred costs, losses, or damages on account of Contractor's conduct in the performance or furnishing of the Work, including but not limited to claims, costs, losses, or damages from workplace injuries, adjacent property damage, non-compliance with Laws and Regulations, and patent infringement;
  - b. Contractor has failed to take reasonable and customary measures to avoid damage, delay, disruption, and interference with other work at or adjacent to the Site;
  - c. Contractor has failed to provide and maintain required bonds or insurance;
  - d. Owner has been required to remove or remediate a Hazardous Environmental Condition for which Contractor is responsible;
  - e. Owner has incurred extra charges or engineering costs related to submittal reviews, evaluations of proposed substitutes, tests and inspections, or return visits to manufacturing or assembly facilities;
  - f. the Work is defective, requiring correction or replacement;
  - g. Owner has been required to correct defective Work in accordance with Paragraph 14.07, or has accepted defective Work pursuant to Paragraph 14.04;
  - h. the Contract Price has been reduced by Change Orders;
  - i. an event that would constitute a default by Contractor and therefore justify a termination for cause has occurred;
  - j. liquidated damages have accrued as a result of Contractor's failure to achieve Milestones, Substantial Completion, or final completion of the Work;
  - k. Liens have been filed in connection with the Work, except where Contractor has delivered a specific bond satisfactory to Owner to secure the satisfaction and discharge of such Liens;
  - l. there are other items entitling Owner to a set off against the amount recommended.
2. If Owner imposes any set-off against payment, whether based on its own knowledge or on the written recommendations of Engineer, Owner will give Contractor immediate written notice (with a copy to Engineer) stating the reasons for such action and the specific amount of the reduction, and promptly pay Contractor any amount

remaining after deduction of the amount so withheld. Owner shall promptly pay Contractor the amount so withheld, or any adjustment thereto agreed to by Owner and Contractor, if Contractor remedies the reasons for such action. The reduction imposed shall be binding on Contractor unless it duly submits a Change Proposal contesting the reduction.

3. Upon a subsequent determination that Owner's refusal of payment was not justified, the amount wrongfully withheld shall be treated as an amount due as determined by Paragraph 15.01.C.1 and subject to interest as provided in the Agreement.

#### 15.02 *Contractor's Warranty of Title*

- A. Contractor warrants and guarantees that title to all Work, materials, and equipment furnished under the Contract will pass to Owner free and clear of (1) all Liens and other title defects, and (2) all patent, licensing, copyright, or royalty obligations, no later than seven days after the time of payment by Owner.

#### 15.03 *Substantial Completion*

- A. When Contractor considers the entire Work ready for its intended use Contractor shall notify Owner and Engineer in writing that the entire Work is substantially complete and request that Engineer issue a certificate of Substantial Completion. Contractor shall at the same time submit to Owner and Engineer an initial draft of punch list items to be completed or corrected before final payment.
- B. Promptly after Contractor's notification, Owner, Contractor, and Engineer shall make an inspection of the Work to determine the status of completion. If Engineer does not consider the Work substantially complete, Engineer will notify Contractor in writing giving the reasons therefor.
- C. If Engineer considers the Work substantially complete, Engineer will deliver to Owner a preliminary certificate of Substantial Completion which shall fix the date of Substantial Completion. Engineer shall attach to the certificate a punch list of items to be completed or corrected before final payment. Owner shall have seven days after receipt of the preliminary certificate during which to make written objection to Engineer as to any provisions of the certificate or attached punch list. If, after considering the objections to the provisions of the preliminary certificate, Engineer concludes that the Work is not substantially complete, Engineer will, within 14 days after submission of the preliminary certificate to Owner, notify Contractor in writing that the Work is not substantially complete, stating the reasons therefor. If Owner does not object to the provisions of the certificate, or if despite consideration of Owner's objections Engineer concludes that the Work is substantially complete, then Engineer will, within said 14 days, execute and deliver to Owner and Contractor a final certificate of Substantial Completion (with a revised punch list of items to be completed or corrected) reflecting such changes from the preliminary certificate as Engineer believes justified after consideration of any objections from Owner.
- D. At the time of receipt of the preliminary certificate of Substantial Completion, Owner and Contractor will confer regarding Owner's use or occupancy of the Work following Substantial Completion, review the builder's risk insurance policy with respect to the end of the builder's risk coverage, and confirm the transition to coverage of the Work under a permanent property insurance policy held by Owner. Unless Owner and Contractor agree otherwise in writing, Owner shall bear responsibility for security, operation, protection of the Work, property insurance, maintenance, heat, and utilities upon Owner's use or occupancy of the Work.



- E. After Substantial Completion the Contractor shall promptly begin work on the punch list of items to be completed or corrected prior to final payment. In appropriate cases Contractor may submit monthly Applications for Payment for completed punch list items, following the progress payment procedures set forth above.
- F. Owner shall have the right to exclude Contractor from the Site after the date of Substantial Completion subject to allowing Contractor reasonable access to remove its property and complete or correct items on the punch list.

#### 15.04 *Partial Use or Occupancy*

- A. Prior to Substantial Completion of all the Work, Owner may use or occupy any substantially completed part of the Work which has specifically been identified in the Contract Documents, or which Owner, Engineer, and Contractor agree constitutes a separately functioning and usable part of the Work that can be used by Owner for its intended purpose without significant interference with Contractor's performance of the remainder of the Work, subject to the following conditions:
  - 1. At any time Owner may request in writing that Contractor permit Owner to use or occupy any such part of the Work that Owner believes to be substantially complete. If and when Contractor agrees that such part of the Work is substantially complete, Contractor, Owner, and Engineer will follow the procedures of Paragraph 15.03.A through E for that part of the Work.
  - 2. At any time Contractor may notify Owner and Engineer in writing that Contractor considers any such part of the Work substantially complete and request Engineer to issue a certificate of Substantial Completion for that part of the Work.
  - 3. Within a reasonable time after either such request, Owner, Contractor, and Engineer shall make an inspection of that part of the Work to determine its status of completion. If Engineer does not consider that part of the Work to be substantially complete, Engineer will notify Owner and Contractor in writing giving the reasons therefor. If Engineer considers that part of the Work to be substantially complete, the provisions of Paragraph 15.03 will apply with respect to certification of Substantial Completion of that part of the Work and the division of responsibility in respect thereof and access thereto.
  - 4. No use or occupancy or separate operation of part of the Work may occur prior to compliance with the requirements of Paragraph 6.05 regarding builder's risk or other property insurance.

#### 15.05 *Final Inspection*

- A. Upon written notice from Contractor that the entire Work or an agreed portion thereof is complete, Engineer will promptly make a final inspection with Owner and Contractor and will notify Contractor in writing of all particulars in which this inspection reveals that the Work, or agreed portion thereof, is incomplete or defective. Contractor shall immediately take such measures as are necessary to complete such Work or remedy such deficiencies.

#### 15.06 *Final Payment*

- A. *Application for Payment:*
  - 1. After Contractor has, in the opinion of Engineer, satisfactorily completed all corrections identified during the final inspection and has delivered, in accordance with the Contract Documents, all maintenance and operating instructions, schedules, guarantees, bonds, certificates or other evidence of insurance, certificates of

inspection, annotated record documents (as provided in Paragraph 7.11), and other documents, Contractor may make application for final payment.

2. The final Application for Payment shall be accompanied (except as previously delivered) by:
  - a. all documentation called for in the Contract Documents;
  - b. consent of the surety, if any, to final payment;
  - c. satisfactory evidence that all title issues have been resolved such that title to all Work, materials, and equipment has passed to Owner free and clear of any Liens or other title defects, or will so pass upon final payment.
  - d. a list of all disputes that Contractor believes are unsettled; and
  - e. complete and legally effective releases or waivers (satisfactory to Owner) of all Lien rights arising out of the Work, and of Liens filed in connection with the Work.
3. In lieu of the releases or waivers of Liens specified in Paragraph 15.06.A.2 and as approved by Owner, Contractor may furnish receipts or releases in full and an affidavit of Contractor that: (a) the releases and receipts include all labor, services, material, and equipment for which a Lien could be filed; and (b) all payrolls, material and equipment bills, and other indebtedness connected with the Work for which Owner might in any way be responsible, or which might in any way result in liens or other burdens on Owner's property, have been paid or otherwise satisfied. If any Subcontractor or Supplier fails to furnish such a release or receipt in full, Contractor may furnish a bond or other collateral satisfactory to Owner to indemnify Owner against any Lien, or Owner at its option may issue joint checks payable to Contractor and specified Subcontractors and Suppliers.

**B. *Engineer's Review of Application and Acceptance:***

1. If, on the basis of Engineer's observation of the Work during construction and final inspection, and Engineer's review of the final Application for Payment and accompanying documentation as required by the Contract Documents, Engineer is satisfied that the Work has been completed and Contractor's other obligations under the Contract have been fulfilled, Engineer will, within ten days after receipt of the final Application for Payment, indicate in writing Engineer's recommendation of final payment and present the Application for Payment to Owner for payment. Such recommendation shall account for any set-offs against payment that are necessary in Engineer's opinion to protect Owner from loss for the reasons stated above with respect to progress payments. At the same time Engineer will also give written notice to Owner and Contractor that the Work is acceptable, subject to the provisions of Paragraph 15.07. Otherwise, Engineer will return the Application for Payment to Contractor, indicating in writing the reasons for refusing to recommend final payment, in which case Contractor shall make the necessary corrections and resubmit the Application for Payment.

**C. *Completion of Work:*** The Work is complete (subject to surviving obligations) when it is ready for final payment as established by the Engineer's written recommendation of final payment.

**D. *Payment Becomes Due:*** Thirty days after the presentation to Owner of the final Application for Payment and accompanying documentation, the amount recommended by Engineer (less any further sum Owner is entitled to set off against Engineer's recommendation,

including but not limited to set-offs for liquidated damages and set-offs allowed under the provisions above with respect to progress payments) will become due and shall be paid by Owner to Contractor.

15.07 *Waiver of Claims*

- A. The making of final payment will not constitute a waiver by Owner of claims or rights against Contractor. Owner expressly reserves claims and rights arising from unsettled Liens, from defective Work appearing after final inspection pursuant to Paragraph 15.05, from Contractor's failure to comply with the Contract Documents or the terms of any special guarantees specified therein, from outstanding Claims by Owner, or from Contractor's continuing obligations under the Contract Documents.
- B. The acceptance of final payment by Contractor will constitute a waiver by Contractor of all claims and rights against Owner other than those pending matters that have been duly submitted or appealed under the provisions of Article 17.

15.08 *Correction Period*

- A. If within one year after the date of Substantial Completion (or such longer period of time as may be prescribed by the terms of any applicable special guarantee required by the Contract Documents, or by any specific provision of the Contract Documents), any Work is found to be defective, or if the repair of any damages to the Site, adjacent areas that Contractor has arranged to use through construction easements or otherwise, and other adjacent areas used by Contractor as permitted by Laws and Regulations, is found to be defective, then Contractor shall promptly, without cost to Owner and in accordance with Owner's written instructions:
  - 1. correct the defective repairs to the Site or such other adjacent areas;
  - 2. correct such defective Work;
  - 3. if the defective Work has been rejected by Owner, remove it from the Project and replace it with Work that is not defective, and
  - 4. satisfactorily correct or repair or remove and replace any damage to other Work, to the work of others, or to other land or areas resulting therefrom.
- B. If Contractor does not promptly comply with the terms of Owner's written instructions, or in an emergency where delay would cause serious risk of loss or damage, Owner may have the defective Work corrected or repaired or may have the rejected Work removed and replaced. Contractor shall pay all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such correction or repair or such removal and replacement (including but not limited to all costs of repair or replacement of work of others).
- C. In special circumstances where a particular item of equipment is placed in continuous service before Substantial Completion of all the Work, the correction period for that item may start to run from an earlier date if so provided in the Specifications.
- D. Where defective Work (and damage to other Work resulting therefrom) has been corrected or removed and replaced under this paragraph, the correction period hereunder with respect to such Work will be extended for an additional period of one year after such correction or removal and replacement has been satisfactorily completed.

- E. Contractor's obligations under this paragraph are in addition to all other obligations and warranties. The provisions of this paragraph shall not be construed as a substitute for, or a waiver of, the provisions of any applicable statute of limitation or repose.

## **ARTICLE 16 – SUSPENSION OF WORK AND TERMINATION**

### **16.01 *Owner May Suspend Work***

- A. At any time and without cause, Owner may suspend the Work or any portion thereof for a period of not more than 90 consecutive days by written notice to Contractor and Engineer. Such notice will fix the date on which Work will be resumed. Contractor shall resume the Work on the date so fixed. Contractor shall be entitled to an adjustment in the Contract Price or an extension of the Contract Times, or both, directly attributable to any such suspension. Any Change Proposal seeking such adjustments shall be submitted no later than 30 days after the date fixed for resumption of Work.

### **16.02 *Owner May Terminate for Cause***

- A. The occurrence of any one or more of the following events will constitute a default by Contractor and justify termination for cause:
  - 1. Contractor's persistent failure to perform the Work in accordance with the Contract Documents (including, but not limited to, failure to supply sufficient skilled workers or suitable materials or equipment or failure to adhere to the Progress Schedule);
  - 2. Failure of Contractor to perform or otherwise to comply with a material term of the Contract Documents;
  - 3. Contractor's disregard of Laws or Regulations of any public body having jurisdiction; or
  - 4. Contractor's repeated disregard of the authority of Owner or Engineer.
- B. If one or more of the events identified in Paragraph 16.02.A occurs, then after giving Contractor (and any surety) ten days written notice that Owner is considering a declaration that Contractor is in default and termination of the contract, Owner may proceed to:
  - 1. declare Contractor to be in default, and give Contractor (and any surety) notice that the Contract is terminated; and
  - 2. enforce the rights available to Owner under any applicable performance bond.
- C. Subject to the terms and operation of any applicable performance bond, if Owner has terminated the Contract for cause, Owner may exclude Contractor from the Site, take possession of the Work, incorporate in the Work all materials and equipment stored at the Site or for which Owner has paid Contractor but which are stored elsewhere, and complete the Work as Owner may deem expedient.
- D. Owner may not proceed with termination of the Contract under Paragraph 16.02.B if Contractor within seven days of receipt of notice of intent to terminate begins to correct its failure to perform and proceeds diligently to cure such failure.
- E. If Owner proceeds as provided in Paragraph 16.02.B, Contractor shall not be entitled to receive any further payment until the Work is completed. If the unpaid balance of the Contract Price exceeds the cost to complete the Work, including all related claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals) sustained by Owner, such excess will be paid to Contractor. If the cost to complete the Work including such related claims, costs, losses,

and damages exceeds such unpaid balance, Contractor shall pay the difference to Owner. Such claims, costs, losses, and damages incurred by Owner will be reviewed by Engineer as to their reasonableness and, when so approved by Engineer, incorporated in a Change Order. When exercising any rights or remedies under this paragraph, Owner shall not be required to obtain the lowest price for the Work performed.

- F. Where Contractor's services have been so terminated by Owner, the termination will not affect any rights or remedies of Owner against Contractor then existing or which may thereafter accrue, or any rights or remedies of Owner against Contractor or any surety under any payment bond or performance bond. Any retention or payment of money due Contractor by Owner will not release Contractor from liability.
- G. If and to the extent that Contractor has provided a performance bond under the provisions of Paragraph 6.01.A, the provisions of that bond shall govern over any inconsistent provisions of Paragraphs 16.02.B and 16.02.D.

#### 16.03 *Owner May Terminate For Convenience*

- A. Upon seven days written notice to Contractor and Engineer, Owner may, without cause and without prejudice to any other right or remedy of Owner, terminate the Contract. In such case, Contractor shall be paid for (without duplication of any items):
  - 1. completed and acceptable Work executed in accordance with the Contract Documents prior to the effective date of termination, including fair and reasonable sums for overhead and profit on such Work;
  - 2. expenses sustained prior to the effective date of termination in performing services and furnishing labor, materials, or equipment as required by the Contract Documents in connection with uncompleted Work, plus fair and reasonable sums for overhead and profit on such expenses; and
  - 3. other reasonable expenses directly attributable to termination, including costs incurred to prepare a termination for convenience cost proposal.
- B. Contractor shall not be paid on account of loss of anticipated overhead, profits, or revenue, or other economic loss arising out of or resulting from such termination.

#### 16.04 *Contractor May Stop Work or Terminate*

- A. If, through no act or fault of Contractor, (1) the Work is suspended for more than 90 consecutive days by Owner or under an order of court or other public authority, or (2) Engineer fails to act on any Application for Payment within 30 days after it is submitted, or (3) Owner fails for 30 days to pay Contractor any sum finally determined to be due, then Contractor may, upon seven days written notice to Owner and Engineer, and provided Owner or Engineer do not remedy such suspension or failure within that time, terminate the contract and recover from Owner payment on the same terms as provided in Paragraph 16.03.
- B. In lieu of terminating the Contract and without prejudice to any other right or remedy, if Engineer has failed to act on an Application for Payment within 30 days after it is submitted, or Owner has failed for 30 days to pay Contractor any sum finally determined to be due, Contractor may, seven days after written notice to Owner and Engineer, stop the Work until payment is made of all such amounts due Contractor, including interest thereon. The provisions of this paragraph are not intended to preclude Contractor from submitting a Change Proposal for an adjustment in Contract Price or Contract Times or otherwise for

expenses or damage directly attributable to Contractor's stopping the Work as permitted by this paragraph.

## **ARTICLE 17 – FINAL RESOLUTION OF DISPUTES**

### **17.01 *Methods and Procedures***

- A. *Disputes Subject to Final Resolution:* The following disputed matters are subject to final resolution under the provisions of this Article:
  - 1. A timely appeal of an approval in part and denial in part of a Claim, or of a denial in full; and
  - 2. Disputes between Owner and Contractor concerning the Work or obligations under the Contract Documents, and arising after final payment has been made.
- B. *Final Resolution of Disputes:* For any dispute subject to resolution under this Article, Owner or Contractor may:
  - 1. elect in writing to invoke the dispute resolution process provided for in the Supplementary Conditions; or
  - 2. agree with the other party to submit the dispute to another dispute resolution process; or
  - 3. if no dispute resolution process is provided for in the Supplementary Conditions or mutually agreed to, give written notice to the other party of the intent to submit the dispute to a court of competent jurisdiction.

## **ARTICLE 18 – MISCELLANEOUS**

### **18.01 *Giving Notice***

- A. Whenever any provision of the Contract Documents requires the giving of written notice, it will be deemed to have been validly given if:
  - 1. delivered in person, by a commercial courier service or otherwise, to the individual or to a member of the firm or to an officer of the corporation for which it is intended; or
  - 2. delivered at or sent by registered or certified mail, postage prepaid, to the last business address known to the sender of the notice.

### **18.02 *Computation of Times***

- A. When any period of time is referred to in the Contract by days, it will be computed to exclude the first and include the last day of such period. If the last day of any such period falls on a Saturday or Sunday or on a day made a legal holiday by the law of the applicable jurisdiction, such day will be omitted from the computation.

### **18.03 *Cumulative Remedies***

- A. The duties and obligations imposed by these General Conditions and the rights and remedies available hereunder to the parties hereto are in addition to, and are not to be construed in any way as a limitation of, any rights and remedies available to any or all of them which are otherwise imposed or available by Laws or Regulations, by special warranty or guarantee, or by other provisions of the Contract. The provisions of this paragraph will be as effective as if repeated specifically in the Contract Documents in connection with each particular duty, obligation, right, and remedy to which they apply.

18.04 *Limitation of Damages*

- A. With respect to any and all Change Proposals, Claims, disputes subject to final resolution, and other matters at issue, neither Owner nor Engineer, nor any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors, shall be liable to Contractor for any claims, costs, losses, or damages sustained by Contractor on or in connection with any other project or anticipated project.

18.05 *No Waiver*

- A. A party's non-enforcement of any provision shall not constitute a waiver of that provision, nor shall it affect the enforceability of that provision or of the remainder of this Contract.

18.06 *Survival of Obligations*

- A. All representations, indemnifications, warranties, and guarantees made in, required by, or given in accordance with the Contract, as well as all continuing obligations indicated in the Contract, will survive final payment, completion, and acceptance of the Work or termination or completion of the Contract or termination of the services of Contractor.

18.07 *Controlling Law*

- A. This Contract is to be governed by the law of the state in which the Project is located.

18.08 *Headings*

- A. Article and paragraph headings are inserted for convenience only and do not constitute parts of these General Conditions.

STANDARD  
SUPPLEMENTARY CONDITIONS\*

These Supplementary Conditions amend or supplement the General Conditions of the Construction Contract and other provisions of the Contract Documents as follows. All provisions which are not so amended or supplemented remain in full force and effect.

G.C. – 1.02.D

Delete the definition of "Defective," on Page 5 of the General Conditions, in its entirety, and insert the following:

"Defective - An adjective which when modifying the word "Work" refers to Work that is unsatisfactory, faulty or deficient, or does not conform to the Contract Documents, or does not meet the requirements of any inspection, reference standard, test or approval referred to in the Contract Documents, or which has been damaged prior to Engineer's recommendation of final payment (unless responsibility for the protection thereof has been assumed by Owner at Substantial Completion in accordance with Paragraph 14.04 or 14.05 , and the Work is damaged through no fault of the Contractor after Owner has assumed said responsibility)."

G.C. –1.01.28

Delete the definition of "Owner," on Page 3 of the General Conditions, in its entirety, and insert the following:

"Owner - i.e., City of Lakeland, Tennessee, a municipal corporation."

G.C. – 2.01

All bonds, including Bid Bond, Performance Bond, and Labor and Material Payment Bond, shall be submitted on the forms provided for such purpose by Owner.

G.C. - 2.02

Delete the first sentence of paragraph 2.02 of the General Conditions, and insert the following:

"Owner shall furnish Contractor two (2) sets of the Contract Documents."

\* For Use with EJCDC C-700 (2013 Edition) Standard General Conditions Of The Construction Contract.



G.C. - 2.05.A

Add the following to paragraph 2.05.A of the General Conditions:

"This schedule shall be a bar chart, CPM, or PERT Schedule. This schedule shall be updated as required because of actual progress, or as requested by Owner."

G.C. - 3.02.A.1

Add the following to paragraph 3.02.A.1 of the General Conditions:

"In the event of any conflict between the provisions of the Contract Documents and any such referenced provisions, the language of the Contract Documents will take precedence over that of any standard specification, manual, or code."

G.C. - 4.03.A

Delete the following to paragraph 4.03.A of the General Conditions, in its entirety, and insert the following:

"Contractor shall provide construction surveying services to establish horizontal and vertical control and set appropriate bench marks for Contractor's use during construction. The Contractor shall be responsible for any additional surveying required for the construction of the project.

The Contractor shall protect all existing survey monuments, brass caps, property corner markers, right-of-way monuments, and reference points from damage during his operations. If it is necessary to remove any of these to accomplish the Work, the Contractor shall hire a Surveyor licensed to practice in the State of Tennessee to reference and reset such monuments.

All costs required by this Supplementary Condition shall be merged with the other bid items and the Contractor will not receive any additional compensation."

G.C. - 5.03.A

Add the following after paragraph 5.03.A.3 of the General Conditions:

"5.03.A.4 Copies of these reports and drawings that are not included with Bidding Documents may be examined at the Engineer's office during regular business hours. These reports and drawings are not part of the Contract Documents, but the technical data contained therein upon which Contractor is entitled to rely, as provided in Paragraph 5.03.B of the General Conditions, are incorporated therein by reference."

G.C. - 6.01.A

Amend the first sentence of paragraph 6.01.A of the General Conditions to read as follows:

"Contractor shall furnish Performance and Payment Bonds, as required by Tennessee Statutes, each in an amount as specified as security for the faithful performance and payment of all Contractor's obligations under the Contract Documents."

All bonds, including Bid Bond, Performance Bond, and Labor and Material Payment Bond, shall be submitted on the forms provided for such purpose by Owner.

G.C. -6.01.D

Amend paragraph 6.01.D of the General Conditions to read as follows:

"If the surety on any Bond furnished by Contractor is declared a bankrupt, becomes insolvent, or is no longer proper or sufficient, as provided by Tennessee Statutes, or its right to do business is terminated in Tennessee or it ceases to meet the requirements of Paragraph 6.01, Contractor shall within ten (10) days thereafter substitute another Bond and Surety, both of which must be acceptable to Owner."

G.C. - 6.03.A through 6.03.E

Delete paragraphs 5.04.A.1 through 5.04.A.6 of the General Conditions in their entirety and insert the following:

- 6.03.A           A.     Workmen's Compensation - Statutory Limit; and,
- B.     Employer's Liability, with limits of \$500,000; on all employees.
- 6.03.B           Comprehensive General Liability (IF USING ISO NEW OCCURRENCE FORM)
- General Contractor:
- A.     Bodily Injury:                     \$1,000,000 per claimant  
   \$ 1,000,000 per occurrence  
   \$ 2,000,000 aggregate
- B.     Personal Injury:                    \$ 2,000,000 aggregate
- C.     Property Damage:                   \$ 1,000,000 per claimant  
   \$ 1,000,000 per occurrence  
   \$ 2,000,000 aggregate

6.03.C Comprehensive General Liability (IF USING ISO NEW SIMPLIFIED CGL OCCURRENCE FORM)

CONTRACTOR:

- A. General Aggregate: \$2,000,000
- B. Products-Completed Operations Aggregate: \$2,000,000
- C. Personal and Advertising Injury: \$2,000,000
- D. Each Occurrence: \$2,000,000
- E. Fire Damage (any one fire): 1,000,000
- F. Medical Expense (any one person): \$5,000

6.03.D Automobile Liability:

- A. Bodily Injury: \$1,000,000 each person  
\$1,000,000 per accident
- B. Property Damage: \$1,000,000 each occurrence
- Independent CONTRACTORS: \$1,000,000

6.03.E Coverage General Contractor Only:

- A. Umbrella/Excess Policy Amount: \$2,000,000

G.C. 6.03.I

Add the following after paragraph 6.03.I.5 of the General Conditions:

6. Contractor shall require all subs to carry at least \$500,000 limits in ALL areas described above and provide proof of insurance if required by the Owner.
7. All policies must contain a minimum 30-day notice of cancellation to the Owner.
8. All policies referenced herein shall name the Owner, its agents and executive officers as additional insured.
9. All insurance shall be maintained continuously during the life of the Contract including warranty period, but the Contractor's liabilities under this Contract shall not be deemed limited in any way by the insurance coverage required.

10. The comprehensive general liability insurance shall include completed operations insurance.
11. All of the policies of insurance so required to be purchased and maintained (or the certificates or other evidence thereof) shall contain a provision or endorsement that the coverage afforded will not be canceled, materially changed, or renewal refused until at least thirty (30) days prior written notice has been given to Owner and Engineer by certified mail.
12. All such insurance shall remain in effect until final payment and at all times thereafter when Contractor may be correcting, removing, or replacing defective Work. In addition, Contractor shall maintain such completed operations insurance for at least two (2) years after final payment and furnish owner with evidence of continuation of such insurance upon final payment and one (1) year thereafter. The Owner shall be named as an additional insured on the Contractor's general liability, automobile liability, and umbrella liability policies with respect to Contractor's and its Subcontractor's work under the Agreement. The insurance coverage described herein shall in no way limit or relieve Contractor from indemnifying and holding Owner harmless with respect to claims. Nothing herein shall be construed as a waiver of any immunities, defenses or tort liability limits that the City may have under the Tennessee Governmental Tort Liability Act or other applicable law.
13. Prior to commencement of work, Contractor shall procure and at all times thereafter maintain with an insurer acceptable to the Owner the above referenced minimum insurance protecting the Contractor and Owner against liability from damages because of injuries, including death, suffered by persons, including employees of the Owner, and liability from damages to property arising from or growing out of the Contractor's negligent operations in connection with the performance of this contract.

G.C. -6.04.A

Delete paragraph 6.04.A of the General Conditions in its entirety and insert the following:

"6.04.A Owner shall be responsible for purchasing and maintaining Owner's own liability insurance as it desires, and, at Owner's option, it may purchase and maintain such insurance as will protect Owner against claims which may arise from its operations under the Contract Documents."

G.C. -6.05.A

Delete paragraph 6.05.A of the General Conditions in its entirety and insert the following:

"6.05.A Contractor shall purchase and maintain property insurance upon the Work at the site in the amount of the full replacement cost thereof. This insurance shall:"

G.C. - 6.05.A.1

Delete paragraph 6.05.A.1 of the General Conditions in their entirety and insert the following:

"6.05.A.1 Owner shall not be responsible for purchasing and maintaining any property insurance to protect the interests of Contractor, Subcontractors, or others in the Work. Risk of loss will be borne by Contractor, Subcontractor, or others suffering any such loss and if any of them wishes property insurance coverage within the limits of such amounts, each may purchase and maintain it at the purchaser's own expense."

G.C. – 6.06.A through 6.06.D

Delete paragraphs 6.06.A through 6.06.D of the General Conditions in their entirety.

G.C. -6.07.A through 6.07.B

Delete paragraph 6.07.A and 6.07B of the General Conditions in its entirety and insert the following:

"6.07.A Any insured loss under the policies of insurance required by Paragraphs 6.05 will be adjusted with Contractor and Owner and the proceeds made payable to Contractor and Owner."

"6.07.B Such proceeds shall be held by Owner and Owner shall serve as trustee for the insureds, as their interests may appear. Owner shall distribute the proceeds in accordance with such agreement as the parties in interest may reach. If no other special agreement is reached, the damaged Work shall be repaired or replaced, the monies so received applied on account thereof and the Work and the cost thereof covered by an appropriate Change Order or Written Amendment."

G.C. - 7.04.C

Delete the first sentence of paragraph 7.04.C of the General Conditions and insert the following:

"The Contractor shall supply the Engineer with three (3) copies of all information and supporting data on each proposal or submittal made pursuant to Paragraphs 7.04.A.2 and 7.04.B, not less than ten (10) days prior to the bid opening date. If approved, the Engineer will approve such request in writing by Addendum."

G.C. – 7.12.C

Add the following to paragraph 7.12.C of the General Conditions:

"It is the Owner's policy to provide contractors performing work at/on Owner-owned facilities with a list of hazardous chemicals on site, and labeled containers of which are reasonably anticipated to be contained in unlabeled pipes, confined space, or other areas of hazardous chemical exposures, together with related Material Safety Data Sheets. It is the responsibility of the Contractor to properly

and adequately train their employees with respect to hazards presented by such chemicals and remedial measures to be taken in case of exposure."

G.C. - 9.06.A

Delete paragraph 9.06.A of the General Conditions in its entirety.

G.C. - 10.08.B through 10.08.C

Add the following to the end of both paragraphs 10.08.B and 10.08.C of the General Conditions:

"...except to the extent such is in conflict with the Contract Documents or applicable law, known to Engineer, and not disclosed to Owner upon discovery by Engineer."

G.C. - 10.08.D through 10.08.E

Delete paragraph 10.08.D through 10.08.E of the General Conditions in its entirety.

G.C. - 13.01.B.1

Add the following to the end of paragraph 13.01.A.1 of the General Conditions to read as follows:

"The expenses of performing Work after regular working hours, on Saturday, Sunday, or legal holidays, shall be included in the above to the extent authorized by Owner and which are incurred consistent with provisions of Tennessee Statutes."

G.C. - 13.01.B.5.c

Delete paragraph 13.01.B.5.c of the General Conditions in its entirety and insert the following:

"13.01.B.5.c Equipment. For any machinery or special equipment (other than small tools) including fuel and lubricants, plus transportation costs, the use of which has been authorized by the Engineer, the Contractor shall receive payment in accordance with the latest approved edition of the Equipment Rental Rates and Construction Sign Rate Schedule of the Tennessee State Transportation Commission. In the event that any of the equipment to be used is not shown in said schedule, the rental rate for such equipment shall be agreed upon in writing before the Work is started.

13.01.B.5.c.1 Rental of equipment will be measured by time in hours of actual working time and necessary travel time within the limits of the Project. If special equipment ordered by the Engineer is to be used in connection with additional work, travel time to the Project will be measured for payment.

13.01.B.5.c.2 Payment will be made based on the number of hours as outlined above, the sum of which will have no percentage added thereto.

13.01.B.5.c.3 Standby time will be paid only on equipment ordered brought to the Project and/or ordered held on the Project by the Engineer. Equipment already on the Project to complete regular contract items will not be considered for payment for standby time.

13.01.B.5.c.4 No formal rate determination schedule will be required as stated in the "Equipment Rental Rates and Sign Rate Schedule;" however, the Contractor shall submit to the Engineer at the Pre-construction conference his proposed base and service rates schedule for each type, model, and size of equipment to be used on this Project. These rates must be approved by the Engineer and accepted by the Contractor before payment to the Contractor for utilization of these rental items is made.

13.01.B.5.c.5 Should there be no specific bid item for mobilization, mobilization for equipment, normally on the Project, that is involved in additional work shall be considered incidental to the payment provisions for mobilization made in the original Agreement."

#### G.C. – 13.03.E

Delete paragraph 13.03.E of the General Conditions in its entirety and insert the following:

"13.03.E Adjustments in unit prices for increased or decreased quantities of major pay items will be governed as follows:

13.03.E.1 If the quantity of any major pay item of Work required to complete the project varies from the original contract quantity by 25% or less, payment will be made at the contract unit price.

13.03.E.2 Should the original contract quantity of any major pay item of Work be increased or decreased by more than 25%, either party to the Agreement may demand in writing within fifteen (15) days that a Change Order be negotiated with an adjustment of contract unit prices satisfactory to both parties.

Where the original contract quantity of a major pay item is increased, the adjusted contract price will apply only to that portion of the pay item which is in excess of 125% of the original contract quantity. The adjusted contract unit price for the quantity of the major pay item which is in excess of 125% of the original contract quantity will be negotiated on the basis of the actual cost of the entire item, complete, in place, plus a negotiated allowance for profit and applicable overhead costs.

In the case where a major pay item is decreased by more than 25% from the original contract quantity, the adjusted contract unit price will apply to the quantity measured and accepted for payment. At the request of the

Contractor, adjustment of the contract unit price for the quantity of a pay item which is less than 75% of the original contract quantity will be considered, insofar as it justifies an increase in the pro rata share of the fixed expense chargeable to such pay item because of the decreased quantity of the item. However, total payment for the pay item shall not exceed that amount which would be paid for 75% of the original contract quantity for the pay item at the original contract unit price.

- 13.03.E.3 If neither party demands in writing, an adjustment of unit prices for major pay items of Work, within fifteen (15) days of proposed quantity adjustment, then the contract unit prices will govern.
- 13.03.E.4 No contract unit price adjustment as provided for herein will be made for any major pay item of Work for which the total amount of the adjustment is less than \$1,000.00.
- 13.03.E.5 For the purpose of this Supplementary Condition, major pay items are defined as any contract pay items having an original amount bid in excess of 5% of the total original Contract Price."

G.C. - 14.02.C

Add the following to paragraph 14.02.C of the General Conditions:

"The Contractor shall be responsible for payment of all costs associated with pressure– leakage testing, material testing, asphalt and concrete mix designs, and for direct payment to the testing laboratory for all retests due to failing test results. These retesting costs must be paid before Final Payment."

G.C. - 14.07.A

Amend the first sentence of paragraph 14.07.A of the General Conditions to read as follows:

"If within one (1) year after the date of Final Payment, or such longer period of time as may be prescribed by Laws or Regulations..."

G.C. - 15.01.B.1

Amend the first sentence of paragraph 15.01.B.1 of the General Conditions to read as follows:

"By the date established for each progress payment (but not more often than once a month), Contractor shall prepare and submit to Engineer for review, an Application for Payment filled out and signed by Contractor covering the Work completed as of the date of the Application and accompanied by such supporting documentation as is required by the Contract Documents."



G.C. - 15.01.C.2.d

Add the following to paragraph 15.01.C.2.d of the General Conditions:

“In fulfilling his or her obligations under Tennessee Statute, Owner’s representative may rely upon the recommendations of Engineer.”

G.C. - 15.01.C.2.e

Add the following to paragraph 15.01.C.2.e of the General Conditions:

“Owner shall make the progress payment as defined in the Agreement, provided the Application is in order and is approved.”

G.C. - 15.05.A

Add the following after paragraph 15.05.A of the General Conditions:

"15.05.A.1 Correction of Work Before Final Payment. The Contractor shall promptly remove from the premises all materials condemned by the Owner as failing to conform to the Agreement, whether incorporated in the Work or not, and where materials and/or Work have been condemned by the Owner, the Contractor shall promptly replace and re-execute his Work in accordance with the Contract Documents and without expense to the Owner, and shall bear the expense of all retests and making good all Work of other contractors destroyed or damaged by such removal or replacement or re-execution of the Work. Correction of any such condemned Work shall be a condition precedent to any further payment under the Agreement.

15.05.A.2 Deductions for Uncorrected Work. If the Owner deems it inexpedient to correct Work which has been damaged or which has not been done in accordance with the Contract Documents, the difference in value, together with a fair allowance for damage, as determined by the Owner, shall be deducted from the sum agreed to be paid the Contractor for the performance of the Contract."

G.C. - 15.06.A.3

Amend the last sentence of paragraph 15.06.A.3 of the General Conditions to read as follows:

"If any Subcontractor or Supplier fails to furnish a release or receipt in full, and to the extent permissible pursuant to Tennessee Statutes. Contractor may furnish a Bond or other collateral satisfactory to Owner to indemnify Owner against any Lien."

G.C. - 15.06.D.1

Delete paragraph 15.06.D.1 of the General Conditions in its entirety and insert the following:

"15.06.D.1 The Owner shall not be required to make Final Payment to the Contractor until such time as the provisions of Tennessee Statute Sections 66-11-205, have been fulfilled, the retained percentage will be paid within fifteen (15) days of the expiration thereof.

15.06.D.2 Should any liens or claims be filed, retainage equal to the amount of the lien or claim will be held until a satisfactory agreement is reached between the Owner, Contractor, and Contractor's surety.

15.06.D.3 All warranties and guarantees from the Contractor, Subcontractors, Suppliers, etc., shall be delivered to the Owner and be of acceptable form and content as determined by the Owner before Final Payment is made."

G.C. - 15.07.A. through 15.07.B

Amend paragraph 15.07.A of the General Conditions to read as follows:

"A waiver of all claims by Owner against Contractor, except claims arising from unsettled claims for labor and materials, from unsettled Liens, from defective Work appearing after final inspection pursuant to Paragraph 14.06 or from failure to comply with the Contract Documents or the terms of any special guarantees specified therein; however, it will not constitute a waiver by Owner of any rights in respect of Contractor's continuing obligations under the Contract Documents; and,"

Amend paragraph 15.07.B of the General Conditions to read as follows:

"A waiver of all claims by Contractor against Owner other than those previously made known to Owner in writing and still unsettled."

G.S. – 16.02.D

Delete paragraph 16.02.D in its entirety.

G.C. - 16.02.E

Add the following immediately after paragraph 16.02.E of the General Conditions:

"16.02.E.1 Should an act of God result in substantial damage to all or a portion of the Work, or should the Owner's convenience necessitate termination in the sole discretion of the Owner, the Owner shall have the option of terminating the Agreement. If the Owner exercises the option to terminate, a Notice of Termination so providing will be issued. Such Notice of Termination may provide for the Contractor to perform any Work deemed by the OWNER as necessary to put the project in satisfactory condition for the termination of all Work. Payment to the Contractor shall be made in accordance with the

Agreement. Upon the issuance of Notice of Termination, the Contractor shall be relieved of further responsibilities for damage to the Work (excluding materials not already incorporated into the Work) and will not be required to perform any further Work other than that specified in the Notice of Termination.

- 16.02.E.2 When the Owner determines that the Work specified in the Notice of Termination has been completed, the Owner shall accept the Project, and immediately upon such acceptance, the Contractor will not be required to perform any further Work thereon, and shall be relieved of his responsibility for injuries to persons or property.
- 16.02.E.3 After acceptance of the Work, pursuant to the General Conditions, the Contractor will be paid for the Work done prior to termination. The Owner will determine the value of the partially completed Work as follows: The Contractor will be paid for all Work to date. This amount shall be computed by determining the percentage of Work completed prior to termination and multiplying that percentage against the Total Contract Price. The amount to be paid shall not exceed the amounts previously paid or due. The Contractor shall not be entitled to his anticipated profits for the Work which would have been performed, but for termination.
- 16.02.E.4 If, prior to such termination, the Contractor has placed an order for materials specially manufactured for the Project, which materials are not suitable for use in other projects of the Owner or sale to others in the ordinary course of the vendor's business, the Contractor will be paid the actual cost of the materials to the Contractor or the cancellation charges, if any, assessed by the vendor. The determination of whether the order shall be completed or canceled shall be made by the Owner. Any materials approved for payment by the Owner and Contractor shall become the property of the Owner and the actual cost of any further handling will be paid for by the Owner.
- 16.02.E.4 No payment will be made for materials which have been damaged and are not acceptable for incorporation in the Work in accordance with the requirements of the Agreement. The Contractor shall reimburse the OWNER for any amounts previously paid by the Owner for such unacceptable material, and agrees that the Owner may deduct the amount of such previous payment made by the Owner for any monies due or which may become due the Contractor. If the Owner has paid for acceptable materials not incorporated into the Work under the General Conditions, the Owner will have the option of taking title to all or any portion of such materials, or of receiving reimbursement from the Contractor for any amounts previously paid to the Contractor. The Contractor agrees to pay to the Owner upon demand any amounts previously paid for such materials, and agrees that the Owner may

deduct the amount of such previous payments from any monies due or which become due the Contractor.

G.C.- 16.02.G

Add the following paragraphs immediately after paragraph 16.02.G of the General Conditions:

“16.02.G Contractor's Responsibility on Receipt of Notice of Termination.

Upon receipt of Notice of Termination from the Owner, whether for default, convenience of the Owner, or otherwise, the Contractor shall:

1. Stop all Work under the Agreement on the date of, and to the extent specified in, the Notice of Termination.
2. Place no further orders or subcontracts for materials, equipment, or services except as may be necessary for completion of such portions of the Work specified in the Notice of Termination.
3. Cancel or terminate all orders of subcontracts to the extent that they relate to the performance of Work specified in the Notice of Termination; and,
4. Comply with all other requirements of the Owner as may be specified in the Notice of Termination.

16.02.H Subcontract Provision.

The Contractor shall insert in all subcontracts a provision that the Subcontractor shall stop all Work on the date of, or to the extent specified in, a Notice of Termination from the Owner and shall require the Subcontractors to insert the same provision in their subcontracts.

16.02.I Duty to Notify Subcontractors.

The Contractor shall immediately, upon receipt, communicate any Notice of Termination issued by the Owner to all affected Subcontractors."



## SECTION 01010

### SUMMARY OF WORK

- A. Project Identification:  
**FY2019 Windward Slopes Tennis Court Resurfacing**
- B. Project Summary:

This project consists of removal of the existing surface for the tennis courts, cleaning and prepping the concrete, repairing any cracks and low spot/birdbath, and resurfacing the two 78' tennis courts. It will also consist of installing blended playing lines for both courts. **Resurfacing and blended striping specs must meet all USTA guidelines.**

A general description of the work includes the following; however, should also comply with the USTA technical specifications listed in section 32 8040.

- The Contractor will coordinate with the Owner on the closing of the courts during the resurfacing period.
- The contractor shall sand, scrape, and/or power wash the entire court surface to remove dirt, stains, debris, mildew, loose surfacing material, and other materials that may impact the adhesion of the acrylic coatings. All construction material removed shall be properly disposed of in accordance with State and local regulations within the time limits of the project. Removal and hauling away of all construction debris shall be the responsibility of the Contractor.
- Prior to the application of the court surface system, the entire court area shall be water flooded and allowed to drain for sixty minutes. At that time the surface shall be inspected for depressions, and areas holding water deeper than 1/8 inch shall be clearly marked to establish the bird bath outline. Once they are completely dried, the outlined area shall be patched and leveled using acrylic court leveling material.
- The contractor shall rout, air blow and clean all structural cracks in the pavement. All cracks will be filled their entire depth with acrylic patch binder material. Multiple applications may be necessary. The contractor shall feather and sand all crack repairs to be even with the adjacent court surface. The contractor shall overlay the pavement cracks with a manufactured crack repair system in accordance with the manufacturer's instructions and recommendations.
- Tennis court surface application shall be installed in multiple, undiluted applications and according to the manufacturers application rates.
- The contractor shall provide and install playing lines in accordance with the Rules of Tennis. Lines shall be installed using line masking tape that is primed to seal the edge and minimize any bleed under the tape. Lines shall be crisp and straight. Fuzzy lines shall not be accepted. All playing lines shall be installed with textured line paint. The contractor shall provide and install blended 36/60/78 foot tennis playing lines at the facility in accordance with the USTA recommendations for blended playing line

installation. This will result in a total of 2 78-foot tennis courts, 2 60-foot tennis courts, and 2 36-foot tennis courts.

- The contractor shall remove all materials, equipment, barrels, etc. from the site and restore the general site to an acceptable condition.

C. Particular project requirements.

1. Apply for, obtain, and pay for permits when required to perform the work.
2. Field-verify dimensions indicated on drawings (when applicable) before fabricating or ordering materials. Do not scale drawings.
3. Notify Owner of existing conditions differing, if any, from those indicated on the initial evaluation or punch list. Do not remove or alter existing utilities without prior written approval.
6. The Contract Documents are intended to provide the basis for proper completion of the work suitable for the intended use of the Owner. Anything not expressly set forth but which is reasonably implied or necessary for proper performance of the project shall be included.
7. The Provisions are written in the imperative mode. Except where specifically intended otherwise, the subject of all imperative statements is the Contractor. For example, "furnish..." means "Contractor shall furnish..."

END OF SECTION

## SECTION 01100

### GENERAL CONSTRUCTION REQUIREMENTS

#### **PART 1 - Description.**

To establish uniform requirements for the resurfacing of the Windward Slopes Tennis Courts which will enable the construction to be performed in accordance with Local, State, and Federal laws.

#### **1.01 Definitions.**

A. For the purposes of these specifications, the words and phrases set out in the following articles shall have the meanings as follows:

1. "City" means the governing body of the city of Lakeland, TN.
2. "Contractor" means the individual, partnership, firm, or corporation contracting with the developer or the City which will be performing the work, or which will be performing the construction activities.
3. "Director" means the Director of Parks and Recreation
4. "Facility" means the existing, fenced in tennis courts that have two fully furnished 78' lined courts.

B. The following abbreviations shall have the designated meanings:

1. "USTA" means the United States Tennis Association.

#### **PART 2 Execution**

#### **2.01 Scheduling and Construction Progress.**

- A. Prior to the start of any work, the Contractor shall submit in writing to the Director for review, a progress schedule that shall be followed as closely as possible. Progress scheduling using a timeline for the various steps to resurface the court to be approved and is encouraged. Once work has started on the courts, it must be pursued continuously until all work is finished.
- B. In the event that the work is not being accomplished expeditiously or in accordance with the time period set forth in the progress schedule, or if the work on the courts has ceased or is abandoned without due cause, the Director may give written notice to the Contractor and/or the surety company for the project.



## **2.02 Protection of Existing Buildings and Structures**

For collapse of adjacent buildings, sidewalks, structures, and underground or above ground utilities, the Contractor shall repair damage done to the owner's property or any other property, on or off the premises, by reason of his operations.

## **2.03 Erosion and Sediment Control**

- A. Erosion and sediment control shall be performed in accordance with rules and regulations adopted by the City of Lakeland and the Tennessee Department of Environment and Conservation if necessary.

## **2.04 City Permits**

- A. All necessary permits shall be obtained prior to the beginning of any construction project.

## **2.05 Punchlist and Final Closeout**

- A. Initial City Punchlist
  1. The Contractor and City personnel will conduct an initial walkthrough and develop a list of deficiencies that will be presented to the Contractor by the Director.
  2. The Contractor and City personnel will conduct a walkthrough identifying items to be corrected. A final punch list will be developed by the Contractor and Director. The punch list will contain dates for completion of the various identified items.
  3. All items on the list will be completed to the satisfaction of the City prior to acceptance of the project.

## **2.06 Workmanship and Cleanup**

- A. All debris and rubbish caused by the operations of the Contractor shall be removed, and the areas occupied during his operations shall be left in a neat and presentable condition satisfactory to the Director. Construction cleanup shall immediately follow installation of new surface. During construction, all existing gutters, storm drains, runoff channels, etc. shall be kept clean of dirt, rubble, or debris which would impede the flow of storm sewer.
- B. Contractor should do everything in their power to not disturb the neighboring properties during the resurfacing process. Normal working hours for noisy equipment is preferred.
- C. Excess, unsuitable, and waste materials from the project shall be suitably disposed of, offsite, by Contractor.

**END OF SECTION**

## **SECTION 01200**

### **PROJECT COORDINATION**

#### **PART 1 – Description**

##### **1.01 SUMMARY**

- A. Contractor shall provide a work schedule prior to starting work for review by all parties. A corrected schedule shall be provided within seven (7) days of starting work.
- B. Conduct all construction activities during reasonable working hours and should do it's best to not overly disturb the neighboring homeowners during resurfacing.

##### **1.02 COORDINATION WITH PUBLIC AND PRIVATE AGENCIES**

- B. Contractor is responsible for locating and protecting existing site items during the project if necessary.
- C. Contractor is responsible for housekeeping, dust and erosion control, and shall provide all equipment and personnel necessary to meet the requirements of this responsibility.
- D. Do not utilize private property for any purpose without written permission from the property owner prior to starting.

##### **1.03 COORDINATION WITH OWNER AND ENGINEER**

- C. Coordinate on-site staging areas, access and temporary facilities with Owner.
- D. For additional information, contact Kevin Rooney, Lakeland Parks and Recreation Director at 867-5414.

##### **1.04 COORDINATION OF CONSTRUCTION**

- A. Contractor is responsible for coordinating work of all trades by preparation of schedules and progress reports, coordination and other work as necessary.
- B. Schedule work to produce orderly, continuous progress and avoid delays due to lack of materials, subcontractor schedule, lack of available manpower, etc.

- F. Contractor is responsible for ensuring that installed and/or completed work is complete and satisfactory prior to enclosing or covering. Call for required inspections in a timely manner and do not cover work that requires inspection.

**END OF SECTION**

## **SECTION 01340**

### **SUBMITTALS**

#### **PART 1 - Description**

##### **1.01 Summary**

- A. Comply with Submittal format requirements as specified in the Contract Documents.
- B. Provide, in a timely manner, the number of copies and types of submittals listed in individual sections of the Contract Documents. If not specified elsewhere, provide the following as a minimum:
  - 1. Product Data: Submit product data in the form of manufacturer technical data, specifications, and application instructions for the tennis playing surface system.
  - 2. Color Charts: Submit color charts for the selection of the court surface color.
  - 3. Closeout submittals.
- C. Provide required resubmittals in the appropriate quantities if original submittals are not approved.

**END OF SECTION**



## **SECTION 01505**

### **TEMPORARY FACILITIES**

#### **PART 1 - Description**

##### **1.01 Summary**

A. Provide construction facilities;

1. Construction equipment.
2. Dewatering and squeegees.

B. Provide protection requirements:

1. Fire extinguishers.
2. Site barricades, warning signs, and lights if applicable.
3. Snow and ice removal, if applicable.

C. Provide personnel support facilities:

1. Drinking water.
2. Cleaning and trash removal.
3. First aid and Emergency Medical Services.
4. Trash removal.

**END OF SECTION**



## SECTION 01650

### MEASUREMENT AND PAYMENT PROCEDURES

#### PART 1 – Description.

All work completed under this Contract will be measured by the Director according to the bid items and documents. Units of measurement and dimensions will be shown in these specifications.

#### 1.01 Payment

A. Progress payments will be processed in accordance with the following schedule.

<u>Cut-Off Date</u>	<u>Date of Submittal</u>
October 19, 2018	October 26, 2018
November 23, 2018	November 30, 2018
December 21, 2018	December 28, 2018
January 18, 2019	January 25, 2019
February 15, 2019	February 22, 2019
March 22, 2019	March, 29, 2019
April 19, 2019	April 26, 2019
May 24, 2019	May 31, 2019
June, 21, 2019	June 28, 2019

Submit pay requests to the City by the dates of submittal listed above.

- B. Owner will make progress payments as defined in Article 5 of the Agreement, on the forms provided by the Engineer.
- C. If the Contractor elects to enter into a joint account agreement, two (2) pay requests and vouchers must be submitted. One pay request and voucher for the appropriate progress payment amount, the other for the retained amount.

#### 1.02 Measurement of Quantities

Quantities shown on the bid schedule are estimated and are to be considered approximate. Actual constructed quantities will vary. The Contractor will be compensated only for those items and materials actually installed and approved as part of the project. No additional pay will be granted for items or materials not installed.

- A. Payment will be made for the work completed and stored materials less retained amounts in accordance with provisions of the contract documents.



- B. Payment amounts will be based on the scheduled values and mutually agreed upon percentage of completion for each item.

### **1.03 Bid Item Descriptions**

The cost of all material and labor required to complete this project as specified and shown on the drawings, but not specifically included as a pay item, shall be included in the bid price of its related bid item. No extra pay shall be granted for items that are reasonably foreseen as necessary for the proper installation of an item.

## **PART 2 Execution**

### **2.01 Measurement and Payment of Bid Items**

#### **A. Strip and Clean Court Surface**

- 1. Measurement of this item shall be by lump sum (LS) of surface removed, cleaned and approved. This item shall include removal of existing tennis court surface, and pressure washing of existing concrete to prepare for new surfacing. Any concrete repairs if needed should be completed once the surface has been cleaned. Any low spots that are holding water should also be repaired at this time. Payment shall be made by the contract unit price per Lump Sum (LS).

#### **B. Resurface Court with USTA Approved Material**

- 1. Measurement of this item shall be by lump sum (LS) of surfaced replaced and approved. The contractor shall provide and install acrylic resurfacer at an undiluted coverage rate of manufacturer's recommendation. The contractor shall provide and install the recommended number of coats of acrylic color (with sand) at an undiluted coverage rate of manufacturer's recommendations. Payment shall be made by the contract unit price per Lump Sum (LS).

#### **C. Line 78' Court with Blended Lines for Youth and Adult League Play**

- 1. Measurement of this item shall be by lump sum (LS) of installation of blended playing lines. The contractor shall provide and install blended 36/60/78 foot tennis playing lines at the facility in accordance with the USTA recommendations for blended playing line installation. This will result in a total of 2 78-foot tennis courts, 2 60-foot tennis courts, and 2 36-foot tennis courts. Payment shall be made by the contract unit price per Lump Sum (LS).

**END OF SECTION**

**SECTION 01750**

**CONTRACT CLOSEOUT**

**PART I Description**

**1.01 Summary**

- A. Provide prerequisites to substantial completion.
  - 1. Punch list.
  - 2. Supporting documentation.
  - 3. Warranties.
  - 4. Certifications.
  
- B. Provide prerequisites to final acceptance.
  - 1. Final payment request with supporting affidavits.
  - 2. Completed punch list.
  - 3. Final clean-up.
  - 4. Removal of temporary facilities.

**END OF SECTION**



## SECTION 01810

### SPECIAL PROVISIONS

#### PART 1 Description

##### 1.01 SUMMARY

- A. These "Special Provisions" supplement, clarify, or modify provisions of Specifications as they apply to this project.
- B. Requirements of Special Provisions, General and Supplemental Conditions apply to work performed under all sections of this project.
- C. Work of this contract shall include all work required to construct the entire Project as defined by the Specifications and other contract documents, unless specific exceptions are stated therein.
- D. DISCREPANCY BETWEEN SPECIAL PROVISIONS, SPECIFICATIONS, AND PLANS. In the event of discrepancy between Special Provisions and other sections of the Specifications, the Special Provisions will take precedence over the Specifications, the General Conditions, and the Supplemental Conditions. The Specifications will take precedence over the Plans.

##### 1.02 LABOR PRACTICES

###### A. EIGHT-HOUR WORK DAY

The Contractor's attention is directed to, Limitation on work hours; overtime; exceptions. a) No person shall require laborers, workmen, or mechanics to work more than eight hours in any one calendar day or forty hours in any one week upon any public works of the state, or any of its political subdivisions, except as hereafter authorized. An employee may agree to work more than eight hours per day or more than forty hours in any week provided the employee shall be paid at the rate of one and one-half times the regularly established hourly rate for all work in excess of forty hours in any one week.

##### 1.03 SAFETY

In accordance with generally accepted construction practices, the Contractor will be solely and completely responsible for safety conditions at and adjacent to the job site, including the safety of all persons and property during the performance of the work. The Contractor shall

comply with all federal, state, and local safety laws and regulations. This requirement shall apply continuously, and shall not be limited to normal working operations. The Director's construction review of the Contractor's performance is not intended to include review of the adequacy of the Contractor's safety measures, in, on, or near the construction site. This paragraph shall be applicable to the Contractor and all of the Contractor's subcontractors.

In addition, the Contractor shall provide barriers, fences, signs, lights, etc. as necessary to control access to the site.

1.04 DUST CONTROL

The Contractor shall be responsible for dust and erosion control, and for minimizing dust and erosion to the Owner's satisfaction. Dust and erosion control shall be deemed to be incidental and shall not be a pay item.

1.05 DISPOSAL OF WASTE MATERIALS

Excess, unsuitable, and waste materials from this project (including that from trench excavation, pavement removal, and grading operations), shall be disposed of, offsite, by Contractor. Such disposal shall be considered incidental, and shall not be a pay item.

1.06 CODES AND STANDARDS

All materials and the completed installation shall comply with applicable standards promulgated pursuant to the State of Tennessee and City of Lakeland.

1.07 CLEANING AND FINISHING

After completion of all work all debris and foreign material will be removed by the contractor. The project area, including staging areas, shall be clean and functional. This will include the restoration of any disturbed landscaping in the work area.

**END OF SECTION**

## SECTION 32 8040

### ACRYLIC TENNIS COURT PLAYING SURFACE NEW ASPHALT CONCRETE

#### PART 1

#### 1 - GENERAL

##### 1.1 WORK INCLUDED

- A. Provide all equipment and materials and do all work necessary to furnish and apply an acrylic tennis court playing surface system as specified.

##### 1.2 RELATED WORK

- A. Examine contract documents for requirements that affect work of this section. Other specification sections that directly relate to work of this section include but are not limited to:
  - 1. Section 32 8013 – Asphalt Concrete Tennis Court Paving

##### 1.3 REFERENCES

- A. Unless otherwise indicated, all tennis court playing lines shall conform to the Rules of Tennis:
  - 1. United States Tennis Association - Rule 1
  - 2. International Tennis Federation - Rule 1

##### 1.4 SUBMITTALS

- A. Product Data: Submit product data in the form of manufacturer technical data, specifications, and application instructions for the tennis playing surface system.
- B. Color Charts: Submit color charts for the selection of the court surface color.

##### 1.5 COORDINATION

- A. Tennis court surfacing system shall be applied to the new asphalt concrete:
  - 1. After the asphalt concrete pavement surface has been thoroughly cleaned and prepared.

##### 1.6 QUALITY ASSURANCE

- A. The tennis court surface system shall be applied in accordance with accepted standards of the American Sports Builders Association and the United States Tennis Association by skilled mechanics in a workmanlike manner in accordance with accepted practices of the trade.

- B. Single source responsibility: The surface system shall be manufactured by a single manufacturer to insure compatibility of products and to define a single source responsibility.

## **1.7 WARRANTY**

- A. Provide manufacturer's warranty for all materials incorporated into the tennis court surface system.
- B. Contractor shall warrant the completed tennis court surface system against defects in workmanship and materials for a period of two years after the date of substantial completion.
- C. Defective materials and workmanship may be defined as, but not necessarily limited to, the following; lack of system coalescence, loss of adhesion, cohesion in any surfacing components which covers the surfacing system to not serve its intended purposes. Surface failures in the form of tears, delamination, blistering, bubbling or splits not caused by the Owner or any other causes are indications of defective material or workmanship.
- D. Manufacturer and contractor shall warrant the completed tennis playing surface against chalking, checking, fading, discoloration, or other adverse effects from ultra violet rays of the sun, from weather moisture, or from weather temperatures.
- E. Materials shall be delivered to the construction site in their original unused and unopened containers clearly labeled with trade name and name of manufacturer.

## **PART 2**

### **2 - PRODUCTS**

#### **2.1 TENNIS COURT SURFACING MATERIAL**

- A. The tennis court surfacing system shall be an acrylic surface system desired by the Owner to produce the playing characteristics required for the intended use of the tennis facility in high altitude regions.
- B. Obtain all tennis court surfacing materials and components including leveling materials from a single manufacturer. Provide secondary materials as recommended and approved only in writing by manufacturer of primary surfacing materials.
- C. Manufacturers considered to have acceptable, equivalent surface systems are:
  - 1. Nova Sports, USA  
P.O. Box 1481  
Framingham, MA 01701  
1-800-USA-NOVA  
  
Novalevel (Patching)  
Novasurface Resurfacer (2 coats)

Nova Combination Mix (2 coats)  
Seal-A-Line (1 coat)  
Novatex (1 coat)

2. Plexipave, A Division of California Products  
150 Dascomb Road  
Andover, MA 01810  
1-800-225-1141

Court Patch Binder (Patching)  
Acrylic Resurfacer (2 coats)  
Fortified Plexipave (2 coats)  
Hi-Hide Plexicolor Line Paint – Textured (1 coat)

3. SportMaster Sport Surfaces  
P.O. Box 2277  
Sandusky, OH 44870  
1-800-395-7325

Acrylic Adhesion Promoter (1 coat)  
Acrylic Patch Binder (Patching)  
Acrylic Resurfacer with Sand (2 coats)  
Color Plus System with Sand (2 coats)  
Stripe Rite (1 coat)  
T/C White Line Paint with Sand (1 coat)

4. Approved equivalent

- D. If the surfacing contractor desires to use a surface system other than the surface system set forth above, complete manufacturer's literature, product data sheets and a description of the surface system must be submitted to the Owner for review a minimum of 15 days prior to commencement of the surface system application. The Owner, at its discretion may approve or disapprove the substitute system if in its sole judgment the proposed system does not satisfy the system design criteria set forth by the Owner.

### **PART 3**

#### **3 - EXECUTION**

##### **3.1 TENNIS COURT SURFACING - GENERAL**

###### **A. Pavement Surface Observation**

1. Prior to the application of the tennis court surface system, the contractor shall observe the asphalt paving on all courts to be surfaced in accordance with this section. All surface irregularities shall be marked, noted, and corrected prior to the start of any surfacing work. Surface irregularities shall include, but not be limited to, the following: poorly constructed joints, overly coarse pavement surface, oily or "fat" spots,



surface contamination by dirt, dust or chemical substances.

**B. Pavement Surface Planarity Observation**

1. Prior to application of the tennis court surface system, the asphalt concrete surface shall be flooded with water and allowed to drain. Any depressions holding water deeper than  $\frac{1}{16}$ " shall be patched and leveled in accordance with recommendations of the manufacturer of the tennis court surfacing material specified herein.

**C. Pavement Surface Preparation**

1. Preparation of the asphalt surface shall include all work necessary to provide a clean, uniform, and sound surface free from any extraneous materials that could affect the adhesion of the tennis surface system. The surface of the asphalt shall be thoroughly cleaned by the use of a power broom or power wash. All oil spots or oily residue shall be removed. The entire surface shall be checked for minor depressions or irregularities or areas not meeting the surface tolerance specified. Depressed areas and surface irregularities shall be corrected using an acrylic based patching material.

**D. Weather Conditions**

1. Water emulsion systems set forth in this specification shall be applied in dry weather and only when the pavement and atmospheric temperature is 50° F or above. Application shall not be permitted when precipitation is anticipated before the film dries to a rain-resistant condition, or when temperature and humidity conditions are such that the emulsion systems could not dry thoroughly before a minimum pavement temperature of 45° F occurs. Each application shall be thoroughly dry and cured prior to the application of succeeding applications.

**3.2 TENNIS SURFACE SYSTEM**

**A. Surface System Application**

1. Application of the tennis surface system shall commence after the Work specified in Section 1.5 has been completed and accepted by the Owner. The tennis court surface system shall be applied in multiple applications. Individual surface system applications shall be made perpendicular to each other (alternated lengthwise and crosswise of the court) with the final application being applied parallel with the tennis net line.

**B. Tennis Surface System**

1. The tennis surface system shall consist of the applications described in 2.1.C above after the patching has been completed.
2. Application rates shall be in accordance with the manufacturer's recommendations.

3. Prior to the application of the color course, the Owner shall observe the surface to insure that it is free from ridges, loose or foreign materials or other surface irregularities.

C. Filler Coats

1. The acrylic filler coats shall be applied to fill the surface voids in the asphalt concrete course and to remove minor surface irregularities. Two applications shall be applied. The acrylic filler coat shall be mixed and applied in strict accordance with the manufacturer's recommendations.

D. Court Surface Color

1. The court surface color shall be U.S. Open Blue within the playing lines and green between the playing lines and the fence enclosure. The colors shall be as approved by the Owner.
  - a. Blue – PMS 533C (or 2955U)
  - b. Green – PMS 364U

E. Finished Court Surface Tolerance

1. The finished court surface when flooded with water and allowed to drain shall have no depressions holding water deeper than  $\frac{1}{16}$ " the thickness of a 5 cent piece (American coin). This depth is considered to be the allowable depth that will evaporate in a reasonable period of time after the remainder of the surface is dry, the time required for evaporation being dependent upon temperature, humidity, and wind velocity.

F. Playing Lines

1. The 36 foot court playing lines shall be 2" in width and shall be applied straight, true, and accurate. Allow a minimum of 24 hours for the color surfacing to dry before painting the lines. All lines shall be taped, sealed/primed and hand painted. Mechanical painting of the lines shall be unacceptable. No fuzzy edges or wavy lines will be acceptable.
2. The base line shall be 3" in width.

G. Curing Time

1. The court surface shall be allowed to cure for a minimum of 4 days before being opened to play.

**END OF SECTION**



**United States Tennis Association  
Tennis Court Resurfacing Form**

**Project Name** \_\_\_\_\_  
**Project Address** \_\_\_\_\_  
**City, State, Zip Code** \_\_\_\_\_

**Client Name** \_\_\_\_\_  
**Client Address** \_\_\_\_\_  
**City, State, Zip Code** \_\_\_\_\_

**Contractor Name** \_\_\_\_\_  
**Contractor Address** \_\_\_\_\_  
**City, States, Zip Code** \_\_\_\_\_

**Date of Proposal** \_\_\_\_\_

**Number of Courts** \_\_\_\_\_

**Project Resurfacing Scope (please check all that apply):**

1.  **Court Cleaning/Preparation** - The contractor shall sand, scrape and/or power wash the entire court surface to remove dirt, stains, debris, mildew, loose surfacing material and other materials that may impact the adhesion of the acrylic coatings.
  
2.  **Low Spot/Birdbath Repair** - Prior to the application of the court surface system, the entire court area shall be water flooded and allowed to drain for sixty minutes. At that time the surface shall be inspected for depressions, and areas holding water deeper than 1/8 inch shall be clearly marked to establish the bird bath outline. Once they are completely dried, the outlined area shall be patched and leveled using acrylic court leveling material.
  
3.  **Crack Repair** – The contractor shall rout, air blow and clean all structural cracks in the pavement. All cracks will be filled their entire depth with acrylic patch binder material. Multiple applications may be necessary. The contractor shall feather and sand all crack repairs to be even with the adjacent court surface.
  
4.  **Manufactured Crack Repair** – The contractor shall overlay \_\_\_\_\_ linear feet of pavement cracks with a manufactured crack repair system in accordance with the manufacturer’s instructions and recommendations.
  
5.  **Resurfacer Coats** – The contractor shall provide and install \_\_\_\_ coat(s) of acrylic resurfacer at an undiluted coverage rate of \_\_\_\_\_ gallons per square yard per coat.

- 6.  **Color Coats** – The contractor shall provide and install \_\_\_ coat(s) of acrylic color (with sand) at an undiluted coverage rate of \_\_\_\_\_ gallons per square yard per coat.
  
- 7.  **Playing Lines** – The contractor shall provide and install \_\_\_ coat(s) of playing lines in accordance with the Rules of Tennis. Lines shall be installed using line masking tape that is primed to seal the edge and minimize any bleed under the tape. Lines shall be crisp and straight. Fuzzy lines shall not be accepted. All playing lines shall be installed with textured line paint.
  
- 8.  **Blended Playing Lines** – The contractor shall provide and install blended 36/60 foot tennis playing lines at the facility in accordance with the USTA recommendations for blended playing line installation. This will result in a total of \_\_\_ 78-foot tennis courts, \_\_\_ 60-foot tennis courts, and \_\_\_ 36-foot tennis courts. (Note: The USTA recommends at least 50% of courts be provided 36’ and 60’ playing lines for youth, beginner, senior, adaptive and Pop Tennis players.)
  
- 9.  **Clean Up** – The contractor shall remove all materials, equipment, barrels, etc. from the site and restore the general site to an acceptable condition.

10. **Other Scope Items:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

11. **Price Proposal** – The contractor shall furnish materials and labor to complete the scope of work above for the sum of \_\_\_\_\_

12. **Other Terms/Conditions** (Please attached additional documents as necessary) - \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_