



IAKE FOREST SCHOOL DISTRICT PAVING MAROVEMENTS

FOR

LAKE FOREST SCHOOL DISTRICT 5423 KILLENS POND RD. FELTON, DE 19943

> <u>ISSUED FOR BIDDING</u> October 2019

> > **RGA NO. 19039**



SEALS PAGE

1.1 DESIGNS PROFESSIONALS OF RECORD

A. ARCHITECT:

- 1. ROBERT A. GROVE, PRINCIPAL, AIA
- 2. (LICENSE #)
- 3. R G ARCHITECTS, LLC.
- 4. 200 W. MAIN STREET MIDDLETOWN, DE 19709
- 5. (302) 376-8100
- 6. Responsible for Division 01-32 Sections except where indicated as prepared by other design professionals of record.

END OF SECTION 00-01 07



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TABLE OF CONTENTS

A. Specifications for this project are arranged in accordance with the Construction Specification Institute numbering system and format. Section numbering is discontinuous and all numbers no appearing in the Table of Contents are not used for this Project.

B. DOCUMENTS BOUND HEREWITH

DIVISION 00 - PROCUREMENT AND CONTRACT REQUIREMENTS

INTRODUCTORY INFORMATION

00 01 01 - COVER PAGE

00 01 07 - SEALS PAGE

00 01 10 - TABLE OF CONTENTS

00 01 15 - LIST OF DRAWING SHEETS

PROCUREMENT REQUIREMENTS

00 11 16 – INVITATION TO BID

00 21 13 – INSTRUCTION TO BIDDERS

00 41 13 - BID FORM

00 43 13 - BID BOND

00 43 21 – ALLOWANCE AUTHORIZATION FORM

CONTRACTING REQUIREMENTS

00 52 13 – STANDARD FORM OF AGREEMENT BETWEEN OWNER AND CONTRACTOR

SAMPLE AIA A101-2017-EXHIBIT A)

SUPPLEMENT TO A101-2017 – EXHIBIT A – INSURANCE & BONDS

90 54 IS SUPPLEMENT TO AGREEMENT BETWEEN OWNER & CONTRACTOR A101-2017

61 13.13 – PERFORMANCE BOND

00 61 13.16 – PAYMENT BOND

00 62 11 - SUBMITTAL COVER SHEET FORM

00 62 76 - APPLICATION AND CERTIFICATE FOR PAYMENT FORMS

(SAMPLE AIA G702-1992 & G703-1992)

R G ARCHITECTS, LLC 19039

- 00 63 13 SAMPLE RFI FORMAT FORM
- 00 63 63 SAMPLE AIA G701-2017 CHANGE ORDER FORM
- 00 65 16 SAMPLE AIA G704-2017 SUBSTANTIAL COMPLETION FORM
- 00 72 13 GENERAL CONDITIONS TO THE CONTRACT

(SAMPLE AIA A201-2017-EXHIBIT A)

- 00 73 13 SUPPLEMENTARY GENERAL CONDITIONS
- 00 73 46 WAGE RATE DETERMINATION SCHEDULE
- 00 81 13 GENERAL REQUIREMENTS
- 00 81 14 DRUG TESTING FORMS

DIVISION 01 – GENERAL REQUIREMENTS

- 01 11 00 SUMMARY OF WORK
- 01 21 00 ALLOWANCES
- 01 23 00 ALTERNATES
- 01 25 00 SUBSTITUTION PROCEDURES
- 01 26 00 CONTRACT MODIFICATION PROCEDURES
- 01 29 00 PAYMENT PROCEDURES
- 01 31 00 PROJECT MANAGEMENT AND COORDINATION
- 01 32 00 CONSTRUCTION PROGRESS DOCUMENTATION
- 01 33 01 SUBMITTAL COVER SHEET FORM
- 01 40 00 QUALITY REQUIREMENTS
- 01 50 00 TEMPORARY FACILITIES AND CONTROLS
- 01 60 00 PRODUCT REQUIRMENTS
- 01 73 00 EXECUTION
- 1 73 29 CUTTING AND PATCHING
- 0M4 19 CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL
- 01 77 00 CLOSEOUT PROCEDURES
- 01 77 10 CLOSEOUT CHECKLIST

DIVISION 32 – EXTERIOR IMPROVEMENTS

- 32 01 17 SAW CUTTING AND BUTT JOINTS
- 32 12 00 BITUMINOUS PAVEMENT
- 32 12 10 ASPHALT MATERIALS PRODUCTION
- 32 12 13 TACK COAT
- 32 12 16 ASPHALT CEMENT
- END OF SECTION 00 01 NO 32 12 33 - BITUMINOUS PAVEMENT MATERIALS PATCHING
- 32 12 36 JOINT-CRACK SEALANT MATERIAL
- 32 17 23 PAVEMENT MARKINGS

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T FOR BIDDING PURPOSE

TABLE OF CONTENTS

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00 01 07 - SEALS PAGE

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R G ARCHITECTS, LLC 19039

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- 01 25 00 SUBSTITUTION PROCEDURES
- 01 26 00 CONTRACT MODIFICATION PROCEDURES
- 01 29 00 PAYMENT PROCEDURES
- 01 31 00 PROJECT MANAGEMENT AND COORDINATION
- 01 32 00 CONSTRUCTION PROGRESS DOCUMENTATION
- 01 33 01 SUBMITTAL COVER SHEET FORM
- 01 40 00 QUALITY REQUIREMENTS
- 01 50 00 TEMPORARY FACILITIES AND CONTROLS
- 01 60 00 PRODUCT REQUIRMENTS
- 01 73 00 EXECUTION
- 1 73 29 CUTTING AND PATCHING
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- 32 12 36 JOINT-CRACK SEALANT MATERIAL
- 32 17 23 PAVEMENT MARKINGS

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T FOR BIDDING PURPOSE

LIST OF DRAWING SHEETS

GENERAL

T10-01	TITLE SHEET
1 117-171	TITLE SHEET

T10-02 SYMBOLS & ABBREVIATIONS

ARCHITECTURAL

A10-01	SITE PLAN – LAKE FOREST HIGH SCHOOL – NEW WORK
A11-01	SITE PLAN – LAKE FOREST HIGH SCHOOL – NEW WORK ENLARCED PLANS
A20-01	SITE PLAN – EAST ELMENTARY SCHOOL – NEW WORK
A21-01	SITE PLAN – EAST ELMENTARY SCHOOL – NEW WORK FALARGED PLANS
A21-02	SITE PLAN – EAST ELMENTARY SCHOOL – NEW WORK ENLARGED PLANS
A30-01	SITE PLAN – DELAWARE EARLY CHILDHOOD CENTER – NEW WORK
A31-01	SITE PLAN – DELAWARE EARLY CHILD HOOD CENTER – NEW WORK ENLARGED
	PLAN
A41-01	DETAILS

END OF SECTION 00 01 15

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INVITATION TO BID

Sealed bids for OMB/DFM Contract No. LAKE FOREST SCHOOL DISTRICT – MULTI-SCHOOL PAVING IMPROVEMENTS will be received by the Lake Forest School District, at Central Business Office, 5423 Killens Pond Rd. Felton, Delaware 19943 until 1:00 pm local time on Tuesday, November 5, 2019 at which time they will be publicly opened and read aloud in the Conference Room. Bidder bears the risk of late delivery. Any bids received after the stated time will be returned unopened.

Project involves: The project consists of paving resurfacing of the existing parking lot & drive aisles of Lake Forest High School, East Elementary School & Delaware Early Childhood Center. Work also consists of misc. patch & repair of existing parking lot & drive aisles.

A Site Visit, non-mandatory, will be held on Monday, October 21, 2019, at 10:00 and a Central Business Office, 5423 Killens Pond Rd. Felton, Delaware 19943 for the purpose of establishing the listing of subcontractors and to answer questions. Representatives of each party to any Joint Venture must attend this meeting.

Sealed bids shall be addressed to the Lake Forest School District, at Central Business Office, 5423 Killens Pond Rd. Felton, Delaware 19943. The outer envelope should clearly indicate: "LAKE FOREST SCHOOL DISTRICT – MULTI-SCHOOL PAVING IMPROVEMENTS - SEALED BID - DO NOT OPEN."

Contract documents may be obtained at the office of "R G Architects", 200 West Main Street, Middletown, DE 19709, phone (302) 376-8100, upon receipt of \$ \$50.00 for electronic PDF files per set/non-refundable. Checks are to be made payable to "R G Architects, LLC".

Bidders will not be subject to discrimination on the basis of race, creed, color, sex, sexual orientation, gender identity or national origin in consideration of this award, and Minority Business Enterprises, Disadvantaged Business Enterprises, Women-Owned Business Enterprises and Veteran-Owned Business Enterprises will be afforded full opportunity to submit bids on this contract. Each bid must be accompanied by a bid security equivalent to ten percent of the bid amount and all additive alternates. The successful bidder must post a performance bond and payment bond in a sum equal to 100 percent of the contract price upon execution of the contract. The Owner reserves the right to reject any or all bids and to waive any informalities therein. The Owner may extend the time and place for the opening of the bids from that described in the advertisement, with not less than two calendar days notice by certified delivery, racsimile machine or other electronic means to those bidders receiving plans.

END OF SECTION 00 11 16

R G ARCHITECTS, LLC INVITATION TO BID 19039 00 11 16 - 1

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INSTRUCTIONS TO BIDDERS

TABLE OF ARTICLES

- 1. DEFINITIONS
- 2. BIDDER'S REPRESENTATION
- 3. BIDDING DOCUMENTS
- 4. BIDDING PROCEDURES
- 5. CONSIDERATION OF BIDS
- 6. POST-BID INFORMATION
- 7. PERFORMANCE BOND AND PAYMENT BOND
- 8. FORM OF AGREEMENT BETWEEN OWNER AND CONTRACTOR

ARTICLE 1: GENERAL

- 1.1 DEFINITIONS
- 1.1.1 Whenever the following terms are used, their intent and meaning shall be interpreted as follows:
- 1.2 STATE: The State of Delaware.
- 1.3 AGENCY: Contracting State Agency as noted on cover sheet.
- 1.4 DESIGNATED OFFICIAL: The agent authorized to act for the Agency.
- BIDDING DOCUMENTS: Bidding Documents include the Bidding Requirements and the proposed Contract Documents. The Bidding Requirements consist of the Advertisement for Bid, Invitation to Bid, Instructions to Bidders, Supplementary Instructions to Bidders (if any), General Conditions, Supplementary General Conditions, General Requirements, Special Provisions (if any), the Bid Form (including the Non-collusion Statement), and other sample bidding and contract forms. The proposed Contract Documents consist of the form of Agreement between the Owner and Contractor, as well as the Drawings, Specifications (Project Manual) and all Addenda issued prior to execution of the Contract.
- 1.6 CONTRACT DOCUMENTS: The Contract Documents consist of the, Instructions to Bidders, Supplementary Instructions to Bidders (if any), General Conditions, Supplementary General Conditions, General Requirements, Special Provisions (if any), the form of agreement between the Owner and the Contractor, Drawings (if any), Specifications (Project Manual), and all addenda.
- 1.7 AGREEMENT: The form of the Agreement shall be AIA Document A101, Standard Form of Agreement between Owner and Contractor where the basis of payment is a STIPULATED SUM. In the case of conflict between the instructions contained therein and the General Requirements herein, these General Requirements shall prevail.
- 1.8 GENERAL REQUIREMENTS (or CONDITIONS): General Requirements (or conditions) are instructions pertaining to the Bidding Documents and to contracts in general. They contain, in summary, requirements of laws of the State; policies of the Agency and instructions to bidders.
- 1.9 SPECAL PROVISIONS: Special Provisions are specific conditions or requirements peculiar to the bidding documents and to the contract under consideration and are supplemental to the General Requirements. Should the Special Provisions conflict with the General Requirements, the Special Provisions shall prevail.
- ADDENDA: Written or graphic instruments issued by the Owner/Architect prior to the execution of the contract which modify or interpret the Bidding Documents by additions, deletions, clarifications or corrections.
 - BIDDER OR VENDOR: A person or entity who formally submits a Bid for the material or Work contemplated, acting directly or through a duly authorized representative who meets the requirements set forth in the Bidding Documents.
- 1.12 SUB-BIDDER: A person or entity who submits a Bid to a Bidder for materials or labor, or both for a portion of the Work.
- 1.13 BID: A complete and properly executed proposal to do the Work for the sums stipulated therein, submitted in accordance with the Bidding Documents.

INSTRUCTIONS TO BIDDERS 00 21 13 - 2

1.14 BASE BID: The sum stated in the Bid for which the Bidder offers to perform the Work described in the Bidding Documents as the base, to which Work may be added or from which Work may be deleted for sums stated in Alternate Bids (if any are required to be stated in the bid). ALTERNATE BID (or ALTERNATE): An amount stated in the Bid, where applicable, to be 1.15 added to or deducted from the amount of the Base Bid if the corresponding change in Work, as described in the Bidding Documents is accepted. 1.16 UNIT PRICE: An amount stated in the Bid, where applicable, as a price pe measurement for materials, equipment or services or a portion of the Work as the Bidding Documents. 1.17 SURETY: The corporate body which is bound with and for the Contract which is liable. and which engages to be responsible for the Contractor's payments. ts pertaining to and for his acceptable performance of the Work for which he has contra BIDDER'S DEPOSIT: The security designated in the Bid to be turnished by the Bidder as a 1.18 guaranty of good faith to enter into a contract with the Agency if the Work to be performed or the material or equipment to be furnished is awarded to 1.19 CONTRACT: The written agreement covering the furnishing and delivery of material or work to be performed. 1.20 CONTRACTOR: Any individual, firm or with whom a contract is made by the Agency. 1.21 SUBCONTRACTOR: An individual, partnership or corporation which has a direct contract with a contractor to furnish labor and materials at the job site, or to perform construction labor and furnish material in connection with such labor at the job site. 1.22 roved form of security furnished by the contractor and his surety CONTRACT BOND: T as a guaranty of goo the part of the contractor to execute the work in accordance with the terms of the

ARTICLE 2: BIDDER'S REPRESENTATIONS

- 2.1 PRE-BID MEETING
- 2.1.1 A pre-bid meeting for this project will be held at the time and place designated. Attendance at this meeting is a pre-requisite for submitting a Bid, unless this requirement is specifically waived elsewhere in the Bid Documents.
- 2.2 By submitting a Bid, the Bidder represents that:
- The Bidder has read and understands the Bidding Documents and that the Bid is made in accordance therewith.
 - The Bidder has visited the site, become familiar with existing conditions under which the Work is to be performed, and has correlated the Bidder's his personal observations with the requirements of the proposed Contract Documents.
- 2.2.3 The Bid is based upon the materials, equipment, and systems required by the Bidding Documents without exception.

R G ARCHITECTS, LLC 19039

2.3	JOINT VENTURE REQUIREMENTS
2.3.1	For Public Works Contracts, each Joint Venturer shall be qualified and capable to complete the Work with their own forces.
2.3.2	Included with the Bid submission, and as a requirement to bid, a copy of the executed Joint Venture Agreement shall be submitted and signed by all Joint Venturers involved.
2.3.3	All required Bid Bonds, Performance Bonds, Material and Labor Payment Bonds must be executed by both Joint Venturers and be placed in both of their names.
2.3.4	All required insurance certificates shall name both Joint Venturers.
2.3.5	Both Joint Venturers shall sign the Bid Form and shall submit a copy of a valid Delaware Business License with their Bid.
2.3.6	Both Joint Venturers shall include their Federal E.I. Number with the Bio.
2.3.7	In the event of a mandatory Pre-bid Meeting, each Joint Venturer shall have a representative in attendance.
2.3.8	Due to exceptional circumstances and for good cause shown, one or more of these provisions may be waived at the discretion of the State.
2.4	ASSIGNMENT OF ANTITRUST CLAIMS
2.4.1	As consideration for the award and execution by the Owner of this contract, the Contractor hereby grants, conveys, sells, assigns and transfers to the State of Delaware all of its right, title and interests in and to all known or unknown causes of action it presently has or may now or hereafter acquire under the antitrust laws of the United States and the State of Delaware, relating to the particular goods or services purchased or acquired by the Owner pursuant to this contract.
ARTICLE 3:	BIDDING DOCUMENTS
3.1	COPIES OF BID DOCUMENTS
3.1.1	Bidders may obtain complete sets of the Bidding Documents from the Architectural/Engineering firm designated in the Advertisement or Invitation to Bid in the number and for the deposit sum, if any, stated therein.
3.1.2	Bidders shall use complete sets of Bidding Documents for preparation of Bids. The issuing Agency nor the Architect assumes no responsibility for errors or misinterpretations resulting from the use of incomplete sets of Bidding Documents.
3.1.3	Any errors, inconsistencies or omissions discovered shall be reported to the Architect immediately.
3.1.4	The Agency and Architect may make copies of the Bidding Documents available on the above terms for the purpose of obtaining Bids on the Work. No license or grant of use is conferred by issuance of copies of the Bidding Documents.

INSTRUCTIONS TO BIDDERS 00 21 13 - 4

3.2 INTERPRETATION OR CORRECTION OF BIDDING DOCUMENTS

- 3.2.1 The Bidder shall carefully study and compare the Bidding Documents with each other, and with other work being bid concurrently or presently under construction to the extent that it relates to the Work for which the Bid is submitted, shall examine the site and local conditions, and shall report any errors, inconsistencies, or ambiguities discovered to the Architect.
- 3.2.2 Bidders or Sub-bidders requiring clarification or interpretation of the Bidding Documents shall make a written request to the Architect at least seven days prior to the date for receipt of Bidding Interpretations, corrections and changes to the Bidding Documents will be made by written Addendum. Interpretations, corrections, or changes to the Bidding Documents made in any other manner shall not be binding.
- 3.2.3 The apparent silence of the specifications as to any detail, or the apparent or ission from it of detailed description concerning any point, shall be regarded as meaning that only the best commercial practice is to prevail and only material and workmanship of the first quality are to be used. Proof of specification compliance will be the responsibility of the Bidder.
- 3.2.4 Unless otherwise provided in the Contract Documents, the Contractor shall provide and pay for all permits, labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary for the proper execution and completion of the Work.
- 3.2.5 The Owner will bear the costs for all impact and user fees associated with the project.

3.3 SUBSTITUTIONS

- 3.3.1 The materials, products and equipment described in the Bidding Documents establish a standard of quality, required function, dimension, and appearance to be met by any proposed substitution. The specification of a particular manufacturer or model number is not intended to be proprietary in any way. Substitutions of products for those named will be considered, providing that the Vendor certifies that the function, quality, and performance characteristics of the material offered is equal or superior to that specified. It shall be the Bidder's responsibility to assure that the proposed substitution will not affect the intent of the design, and to make any installation modifications required to accommodate the substitution.
- Requests for substitutions shall be made in writing to the Architect at least ten days prior to the date of the Bid Opening. Such requests shall include a complete description of the proposed substitution, drawings, performance and test data, explanation of required installation modifications due the substitution, and any other information necessary for an evaluation. The burden of proof of the merit of the proposed substitution is upon the proposer. The Architect's decision of approval or disapproval shall be final. The Architect is to notify Owner prior to any approvals.
- If the Architect approves a substitution prior to the receipt of Bids, such approval shall be set forth in an Addendum. Approvals made in any other manner shall not be binding.
- The Architect shall have no obligation to consider any substitutions after the Contract award.

ADDENDA

- 3.4.1 Addenda will be mailed or delivered to all who are known by the Architect to have received a complete set of the Bidding Documents.
- 3.4.2 Copies of Addenda will be made available for inspection wherever Bidding Documents are on file for that purpose.

R G ARCHITECTS, LLC INSTRUCTIONS TO BIDDERS 19039 00 21 13 - 5

- 3.4.3 No Addenda will be issued later than 4 days prior to the date for receipt of Bids except an Addendum withdrawing the request for Bids or one which extends the time or changes the location for the opening of bids.
- 3.4.4 Each bidder shall ascertain prior to submitting his Bid that they have received all Addenda issued, and shall acknowledge their receipt in their Bid in the appropriate space. Not acknowledging an issued Addenda could be grounds for determining a bid to be non responsive.

ARTICLE 4: BIDDING PROCEDURES

- 4.1 PREPARATION OF BIDS
- 4.1.1 Submit the bids on the Bid Forms included with the Bidding Document
- 4.1.2 Submit the original Bid Form for each bid. Bid Forms may be removed from the project manual for this purpose.
- 4.1.3 Execute all blanks on the Bid Form in a non-erasable medium (typewriter or manually in ink).
- 4.1.4 Where so indicated by the makeup on the Bid Form, express sums in both words and figures, in case of discrepancy between the two, the written amount shall govern.
- 4.1.5 Interlineations, alterations or erasures must be initiated by the signer of the Bid.
- 4.1.6 BID ALL REQUESTED ALTERNATES AND UNIT PRICES, IF ANY. If there is no change in the Base Bid for an Alternate, enter "No Change". The Contractor is responsible for verifying that they have received all addenda issued during the bidding period. Work required by Addenda shall automatically become part of the Contract.
- 4.1.7 Make no additional stipulations on the Bid Form and do not qualify the Bid in any other manner.
- 4.1.8 Each copy of the Bid shall include the legal name of the Bidder and a statement whether the Bidder is a sole proprietor, a partnership, a corporation, or any legal entity, and each copy shall be signed by the person or persons legally authorized to bind the Bidder to a contract. A Bid by a corporation shall further give the state of incorporation and have the corporate seal affixed. A Bid submitted by an agent shall have a current Power of Attorney attached, certifying agent's authority to bind the Bidder.
- 4.1.9 Bidder shall complete the Non-Collusion Statement form included with the Bid Forms and noclude it with their Bid.
- In the construction of all Public Works projects for the State of Delaware or any agency thereof, preference in employment of laborers, workers or mechanics shall be given to bona fide legal citizens of the State who have established citizenship by residence of at least 90 days in the State.
- 11 Each bidder shall include in their bid a copy of a valid Delaware Business License.
- 4.1.12 Each bidder shall include a signed Affidavit for the Bidder certifying compliance with OMB Regulation 4104 "Regulations for the Drug Testing of Contractor and Subcontractor Employees Working on "Large Public Works Projects." "Large Public Works" is based upon the current threshold required for bidding Public Works as set by the Purchasing and Contracting Advisory Council.
- 4.2 BID SECURITY INSTRUCTIONS TO BIDDERS 00 21 13 6

- 4.2.1 All bids shall be accompanied by a deposit of either a good and sufficient bond to the agency for the benefit of the agency, with corporate surety authorized to do business in this State, the form of the bond and the surety to be approved by the agency, or a security of the bidder assigned to the agency, for a sum equal to at least 10% of the bid plus all add alternates, or in lieu of the bid bond a security deposit in the form of a certified check, bank treasurer's check cashier's check, money order, or other prior approved secured deposit assigned to the State. The bid bond need not be for a specific sum, but may be stated to be for a sum equal to 10% of the bid plus all add alternates to which it relates and not to exceed a certain stated sum if said sum is equal to at least 10% of the bid. The Bid Bond form used shall be the standard OMB form (attached).
- 4.2.2 The Agency has the right to retain the bid security of Bidders to whom an award is being considered until either a formal contract has been executed and bonds have been furnished or the specified time has elapsed so the Bids may be withdrawn or all Bids have been rejected.
- 4.2.3 In the event of any successful Bidder refusing or neglecting to execute a formal contract and bond within 20 days of the awarding of the contract, the bid bond or security deposited by the successful bidder shall be forfeited.
- 4.3 SUBCONTRACTOR LIST
- 4.3.1 As required by <u>Delaware Code</u>, Title 29, section 5962(d)(10)b, each Bidder shall submit with their Bid a completed List of Sub-Contractors included with the Bid Form. NAME ONLY ONE SUBCONTRACTOR FOR EACH TRADE. A Bid will be considered non-responsive unless the completed list is included.
- 4.3.2 Provide the Name and Address for each listed subcontractor. Addresses by City, Town or Locality, plus State, will be acceptable.
- It is the responsibility of the Contractor to ensure that their Subcontractors are in compliance with the provisions of this law. Also, if a Contractor elects to list themselves as a Subcontractor for any category, they must specifically name themselves on the Bid Form and be able to document their capability to act as Subcontractor in that category in accordance with this law.
- 4.4 EQUALITY OF EMPLOYMENT OPPORTUNITY ON PUBLIC WORKS
- 4.4.1 During the performance of this contract, the contractor agrees as follows:
 - The Contractor will not discriminate against any employee or applicant for employment because of race, creed, sex, color, sexual orientation, gender identity or national origin. The Contractor will take affirmative action to ensure the applicants are employed, and that employees are treated during employment, without regard to their race, creed, sex, color, sexual orientation, gender identity or national origin. Such action shall include, but not be limited to, the following: Employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places available to employees and applicants for employment notices to be provided by the contracting agency setting forth this nondiscrimination clause.
 - B. The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, creed, sex, color, sexual orientation, gender identity or national origin."
- 4.5 PREVAILING WAGE REQUIREMENT

R G ARCHITECTS, LLC INSTRUCTIONS TO BIDDERS 19039 00 21 13 - 7

- 4.5.1 Wage Provisions: For renovation and new construction projects whose costs exceed the thresholds contained in <u>Delaware Code</u>, Title 29, Section 6960, the minimum wage rates for various classes of laborers and mechanics shall be as determined by the Department of Labor, Division of Industrial Affairs of the State of Delaware.
- 4.5.2 The employer shall pay all mechanics and labors employed directly upon the site of work unconditionally and not less often than once a week and without subsequent deduction or rebate on any account, the full amounts accrued at time of payment, computed at wage rates not less than those stated in the specifications, regardless of any contractual relationship which may be alleged to exist between the employer and such laborers and mechanics.
- 4.5.3 The scale of the wages to be paid shall be posted by the employer in a prominent and easily accessible place at the site of the work.
- 4.5.4 Every contract based upon these specifications shall contain a stipulation that sworn payroll information, as required by the Department of Labor, be furnished weekly. The Department of Labor shall keep and maintain the sworn payroll information for a period of 6 months from the last day of the work week covered by the payroll.

4.6 SUBMISSION OF BIDS

- 4.6.1 Enclose the Bid, the Bid Security, and any other documents required to be submitted with the Bid in a sealed opaque envelope. Address the envelope to the party receiving the Bids. Identify with the project name, project number, and the Bidder's name and address. If the Bid is sent by mail, enclose the sealed envelope in a separate mailing envelope with the notation "BID ENCLOSED" on the face thereof. The State is not responsible for the opening of bids prior to bid opening date and time that are not properly marked.
- 4.6.2 Deposit Bids at the designated location prior to the time and date for receipt of bids indicated in the Advertisement for Bids. Bids received after the time and date for receipt of bids will be marked "LATE BID" and returned.
- 4.6.3 Bidder assumes full responsibility for timely delivery at location designated for receipt of bids.
- 4.6.4 Oral, telephonic or telegraphic bids are invalid and will not receive consideration.
- 4.6.5 Withdrawn Bids may be resubmitted up to the date and time designated for the receipt of Bids, provided that they are then fully in compliance with these Instructions to Bidders.

4.7 MODIFICATION OR WITHDRAW OF BIDS

- 4.7.1 Rior to the closing date for receipt of Bids, a Bidder may withdraw a Bid by personal request and by showing proper identification to the Architect. A request for withdraw by letter or fax, if the Architect is notified in writing prior to receipt of fax, is acceptable. A fax directing a modification in the bid price will render the Bid informal, causing it to be ineligible for consideration of award. Telephone directives for modification of the bid price shall not be permitted and will have no bearing on the submitted proposal in any manner.
 - Bidders submitting Bids that are late shall be notified as soon as practicable and the bid shall be returned.
- 4.7.3 A Bid may not be modified, withdrawn or canceled by the Bidder during a thirty (30) day period following the time and date designated for the receipt and opening of Bids, and Bidder so agrees in submitting their Bid. Bids shall be binding for 30 days after the date of the Bid opening.

INSTRUCTIONS TO BIDDERS R G ARCHITECTS, LLC 00 21 13 - 8

ARTICLE 5: CONSIDERATION OF BIDS 5.1 OPENING/REJECTION OF BIDS Unless otherwise stated. Bids received on time will be publicly opened and will be read aloud. 5.1.1 An abstract of the Bids will be made available to Bidders. 5.1.2 The Agency shall have the right to reject any and all Bids. A Bid not accompanied required Bid Security or by other data required by the Bidding Documents, or a Bid wh any way incomplete or irregular is subject to rejection. 5.1.3 If the Bids are rejected, it will be done within thirty (30) calendar day of the Bid 5.2 COMPARISON OF BIDS After the Bids have been opened and read, the bid prices will be annual 5.2.1 such comparisons will be made available to the public. Comparisons of the Bids may be based on the Base Bid plus desired Alternates. The Agency shall have the right to accept Alternates in any order or combination. 5.2.2 The Agency reserves the right to waive technicalities, to reject any or all Bids, or any portion thereof, to advertise for new Bids, to proceed to do the Work otherwise, or to abandon the Work, if in the judgment of the Agency or its agent(s), it is in the best interest of the State. 5.2.3 An increase or decrease in the quantity for is not sufficient grounds for an increase or decrease in the Unit Price. 5.2.4 The prices quoted are to be those to which the material will be furnished F.O.B. Job Site and include all charges that may be imposed during the period of the Contract. 5.2.5 No qualifying letter or statements in or attached to the Bid, or separate discounts will be considered in determining he low Bid except as may be otherwise herein noted. Cash or separate discounts should be computed and incorporated into Unit Bid Price(s). 5.3 DISQUALIFICATION OF BIDD An agency shall termine that each Bidder on any Public Works Contract is responsible 5.3.1 warding the Contract. Factors to be considered in determining the responsibility before of a Bidder include: he Bidder's financial, physical, personnel or other resources including Subcontracts: The Bidder's record of performance on past public or private construction projects,

- C. The Bidder's written safety plan;
- D. Whether the Bidder is qualified legally to contract with the State:
- E. Whether the Bidder supplied all necessary information concerning its responsibility; and,

violations of the Prevailing Wage Laws in Delaware or any other state:

including, but not limited to, defaults and/or final adjudication or admission of

F. Any other specific criteria for a particular procurement, which an agency may establish: provided however, that, the criteria be set forth in the Invitation to Bid and is otherwise in conformity with State and/or Federal law. 5.3.2 If an agency determines that a Bidder is nonresponsive and/or nonresponsible, the determination shall be in writing and set forth the basis for the determination. A copy of the determination shall be sent to the affected Bidder within five (5) working days of sa determination. 5.3.3 In addition, any one or more of the following causes may be considered as sufficient disqualification of a Bidder and the rejection of their Bid or Bids. 5.3.3.1 More than one Bid for the same Contract from an individual, firm or con der the same or different names. 5.3.3.2 Evidence of collusion among Bidders. 5.3.3.3 Unsatisfactory performance record as evidenced by past experi 5.3.3.4 If the Unit Prices are obviously unbalanced either in exc reasonable cost analysis values. 5.3.3.5 If there are any unauthorized additions, internegation, conditional or alternate bids or irregularities of any kind which may tend to make the Bid incomplete, indefinite or ambiguous as to its meaning. Bid Security and other data required by the 5.3.3.6 If the Bid is not accompanied by the Bidding Documents. 5.3.3.7 he Bid are noted on the Bid Form. If any exceptions or qualifications of AWARD OF CONTRACT 5.4 ACCEPTANCE OF BID AND A formal Contract shall be executed with the successful Bidder within twenty (20) calendar 5.4.1 days after the award of the Contract. Per Section 6962(d) (13) a., Title 29, Delaware Code, "The contracting agency shall award 5.4.2 any public works contract within thirty (30) days of the bid opening to the lowest responsive and responsible Bidder, unless the Agency elects to award on the basis of best value, in case the election to award on the basis of best value shall be stated in the Invitation Bid on any Public Works Contract must be deemed responsive by the Agency to be considered for award. A responsive Bid shall conform in all material respects to the requirements and criteria set forth in the Contract Documents and specifications. The Agency shall have the right to accept Alternates in any order or combination, and to determine the low Bidder on the basis of the sum of the Base Bid, plus accepted Alternates. The successful Bidder shall execute a formal contract, submit the required Insurance Certificate, and furnish good and sufficient bonds, unless specifically waived in the General Requirements, in accordance with the General Requirement, within twenty (20) days of official notice of contract award. The successful Bidder shall provide, at least two business days prior

INSTRUCTIONS TO BIDDERS R G ARCHITECTS, LLC 00 21 13 - 10 19039

to contract execution, copies of the Employee Drug Testing Program for the Bidder and all listed Subcontractors. Bonds shall be for the benefit of the Agency with surety in the amount of 100% of the total contract award. Said Bonds shall be conditioned upon the faithful

performance of the contract. Bonds shall remain in affect for period of one year after the date of substantial completion.

- If the successful Bidder fails to execute the required Contract, Bond and all required information, as aforesaid, within twenty (20) calendar days after the date of official Notice of the Award of the Contract, their Bid guaranty shall immediately be taken and become the property of the State for the benefit of the Agency as liquidated damages, and not as forfeiture or as a penalty. Award will then be made to the next lowest qualified Bidder of the Work or readvertised, as the Agency may decide.
- Each bidder shall supply with its bid its taxpayer identification number (i.e., federal employer identification number or social security number) and a copy of its Delaware business license, and should the vendor be awarded a contract, such vendor shall provide to the agency the taxpayer identification license numbers of such subcontractors. Such purplers shall be provided on the later of the date on which such subcontractor is required to be identified or the time the contract is executed. The successful Bidder shall provide to the agency to which it is contracting, within 30 days of entering into such public works contract, copies of all Delaware Business licenses of subcontractors and/or independent contractors that will perform work for such public works contract. However, in a subcontractor or independent contractor is hired or contracted more than 20 days after the Bidder entered the public works contract the Delaware Business license of such subcontractor or independent contractor shall be provided to the agency within 10 days of being contracted or hired.
- 5.4.8 The Bid Security shall be returned to the successful Bidder upon the execution of the formal contract. The Bid Securities of unsuccessful bidders shall be returned within thirty (30) calendar days after the opening of the Bids

ARTICLE 6: POST-BID INFORMATION

- 6.1 CONTRACTOR'S QUALIFICATION STATEMENT
- 6.1.1 Bidders to whom award of a Contract is under consideration shall, if requested by the Agency, submit a properly executed A A Document A305, Contractor's Qualification Statement, unless such a statement has been previously required and submitted.
- 6.2 BUSINESS DESIGNATION FORM
- 6.2.1 Successful bidder shall be required to accurately complete an Office of Management and Budget Business Designation Form for Subcontractors.

ARTICLE 7: PERFORMANCE BOND AND PAYMENT BOND

- 7.1 BOND REQUIREMENTS
- 7.1.1 The cost of furnishing the required Bonds, that are stipulated in the Bidding Documents, shall be included in the Bid.
- If the Bidder is required by the Agency to secure a bond from other than the Bidder's usual sources, changes in cost will be adjusted as provide in the Contract Documents.
- 7.1.3 The Performance and Payment Bond forms used shall be the standard OMB forms (attached).
- 7.2 TIME OF DELIVERY AND FORM OF BONDS
- 7.2.1 The bonds shall be dated on or after the date of the Contract.

R G ARCHITECTS, LLC 19039 7.2.2 The Bidder shall require the attorney-in-fact who executes the required bonds on behalf of the surety to affix a certified and current copy of the power of attorney.

ARTICLE 8: FORM OF AGREEMENT BETWEEN AGENCY AND CONTRACTOR

Unless otherwise required in the Bidding Documents, the Agreement for the Work will be written on AIA Document A101, Standard Form of Agreement Between Owner and Contractor Where the Basis of Payment is a Stipulated Sum.



BID FORM

LAKE FOREST SCHOOL DISTRICT PAVING IMPROVEMENTS

For Bids due: <u>Tuesday. November 5, 2019</u>	To: <u>Lake Forest School District</u> Central Business Office
	5423 Killens Pond Rd.
	Felton, Delaware 19943
	Attn: Karl Stahre
Name of Bidder:	
Delaware Business License No.:	Taxpayer ID No.:
(A copy of Bidder's Delaware Business License	must be attached to this form.)
(Other License Nos.):	
Phone No.: ()	Fax No.: (
The and animal annuality that he has used as	and and anti-state. Publics Dominants and that this hid is made in
accordance therewith that he has visited the site at	and understands the Bidding Documents and that this bid is made in and has familiarized himself with the local conditions under which the
Work is to be performed, and that his bid is based	d upon the materials, systems and equipment described in the Bidding
Documents without exception, hereby proposes a	and agrees to provide all labor, materials, plant, equipment, supplies,
transport and other facilities required to execute the	ework described by the aforesaid documents for the lump sum itemized
below:	
\$	
(\$	')
<u>ALTERNATES</u>	
Alternate prices conform to applicable project spec	cification section. Refer to specifications for a complete description of T" amount is indicated by the crossed out part that does not apply.
the following Alternates. An ADD or DEDUCT	amount is indicated by the crossed out part that does not apply.
ALTERNATE No. 1: All new paving work at Dela	claware Early Childhood Center as shown on contract documents.
Deduct:	
(\$)
ALLOWANCES	
DECWANCES	

The base bid above includes all allowances specified in the contract documents;

Allowance No.1: "General Owner's Allowance" \$10,000.00

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BID FORM

LAKE FOREST SCHOOL DISTRICT PAVING IMPROVEMENTS

I/We acknowledge Addendums numbered and may have.	the price(s) submitted include any cost/schedule impact they
	thirty (30) days from the date of opening of bids (60 days) for indersigned shall abide by the Bid Security forfetture provisions.
The Owner shall have the right to reject any or all bids, ar	nd to waive any informality or irregular y in any bid received.
This bid is based upon work being accomplished by the S	ub-Contractors named on the list attached to this bid.
Should I/We be awarded this contract, I/We pledge to ach calendar days of the Notice to Proceed.	nieve substantial completion of all the work within
national laws; that no legal requirement has been or shall contract to him or in the prosecution of the work requirement.	plied and shall comply with all requirements of local, state, and il be violated in making or accepting this bid, in awarding the red; that the bid is legal and firm; that he has not, directly or any collarion or otherwise taken action in restraint of free
	d, the Bidder shall, within twenty (20) calendar days, execute act Bonds, and Insurance Certificates, required by the Contract
I am / We are an Individual / a Partnership / a Corporation	
By(Individual's / General Partner's / Corporate Name	Trading as
(State of Corporation)	
Business Address:	
Witness:	By:
(SEAL)	(Authorized Signature)
	(Title) Date:
ATTA CHMENTS	
Sub-Contractor List Non-Collusion Statement	
Affidavit of Employee Drug Testing Program	
Bid Security	

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(Others as Required by Project Manuals)

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BID FORM

LAKE FOREST SCHOOL DISTRICT PAVING IMPROVEMENTS

SUBCONTRACTOR LIST

In accordance with Title 29, Chapter 6962 (d)(10)b <u>Delaware Code</u>, the following sub-contractor listing must accompany the bid submittal. The name and address of the sub-contractor **must** be listed for each category where the bidder intends to use a sub-contractor to perform that category of work. In order to provide full disclosure and acceptance of the bid by the *Owner*, it is required that bidders list themselves as being the sub-contractor for all categories where he/she is qualified and intends to perform such work. This form must be filled out completely with no additions or deletions.

Subcontractor Category	Subcontractor	Address (City & State)	Subcontractors tax payer ID #
			or Delaware Business license #
1. Paving			
I. Paving			

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BID FORM

LAKE FOREST SCHOOL DISTRICT PAVING IMPROVEMENTS

NON-COLLUSION STATEMENT

This is to certify that the undersigned bidder has neither directly nor indirectly, entered into any agreement, participated in any collusion or otherwise taken any action in restraint of free competitive bidding in connection with this proposal submitted this date to the Lake Forest School District.

All the terms and conditions of Project "LAKE FOREST SCHOOL DISTRICT – PAYING INPROVEMENTS" have been thoroughly examined and are understood.

NAME OF DIDDER:		<u> </u>
AUTHORIZED REPRESENTATIVE (TYPED):	0	
AUTHORIZED REPRESENTATIV (SIGNATURE):		
TITLE:		
ADDRESS OF BIDDER:		
E-MAIL:		
PHONE NUMBER:		
40		
Sworn to and Subscribed before me this	day of	20
My Commission expires	NOTARY PUBLIC	

THIS PAGE MUST BE SIGNED AND NOTARIZED FOR YOUR BID TO BE CONSIDERED.

R G ARCHITECTS, LLC
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BID FORM

LAKE FOREST SCHOOL DISTRICT PAVEMENT IMPROVEMENTS

AFFIDAVIT OF EMPLOYEE DRUG TESTING PROGRAM

4104 Regulations for the Drug Testing of Contractor and Subcontractor Employees Working on Large Public Works Projects requires that Contractors and Subcontractors implement a program of mandatory drug testing for Employees who work on Large Public Works Contracts funded all or in part with public funds.

We hereby certify that we have in place or will implement during the entire term of the contract a Mandatory Drug Testing Program for our employees on the jobsite, including subcontractors that complies with this regulation:

Contractor/Subcontractor Name:		
Contractor/Subcontractor Address:	36	
Authorized Representative (typed or printed).		
Authorized Representative (signature):		
Title:		
Sworn to and Subscribed before me this	day of	20
My Commission expires	. NOTARY PUBLIC	

THIS PAGE MUST BE SIGNED AND NOTARIZED FOR YOUR BID TO BE CONSIDERED.

R G ARCHITECTS, LLC
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LAKE FOREST SCHOOL DISTRICT PAVING IMPROVEMENTS

BID BOND

TO ACCOMPANY PROPOSAL

(Not necessary if security is used)

KNOW ALL MEN BY	THESE PRESEN	NTS That:
	_of	in the County of as Principal, and in the County of ally authorized to do business in the State of Delawar
and State of		as Principal , and
	_ of	in the County of
and State of	as Surety , leg	ally authorized to do business in the State of Delawa
("State"), are held and firmly ur	nto the State in the	ne sum of
Dollars	s (\$), orpercent not to exceed
of amount of bid on Contract N	0.	, to be paid to the State for the use and benefit of Lak
		l and truly to be made, we do bind ourselves, our and each
	ors, and successo	ors, jointly and severally for and in the whole firmly by the
presents.		
NOW THE CONDITIO	N OF THE OF	OLICATION IS SUCIL That if the shows handed Drivein
		BLIGATION IS SUCH That if the above bonded Princip
		Discrict a certain proposal to enter into this contract for the
Principal shall wall and truly of	nd/or services w	ithin the State , shall be awarded this Contract, and if saccure this Contract as may be required by the terms of the
Contract and approved by the I	alza Forast Sal	District this Contract to be entered into within twenty
days after the date of official no	otice of the work	Thereof in accordance with the terms of said proposal, the
this obligation shall be void or e		
this congation shall be vold of e	Ase to be time to in	idii iii fuii force diid virtue.
Sealed with seal an	d dated this	day of in the year of our Lord tw
thousand and	(20)	<u>).</u>
SEALED, AND DELIVERED I	NTHE	
Presence of		
		Name of Bidder (Organization)
	_	
Corporate	By:	
Seal		Authorized Signature
Attest	=	
		Title
		Name of Surety
		Name of Surety
Witness:	By:	
		Title

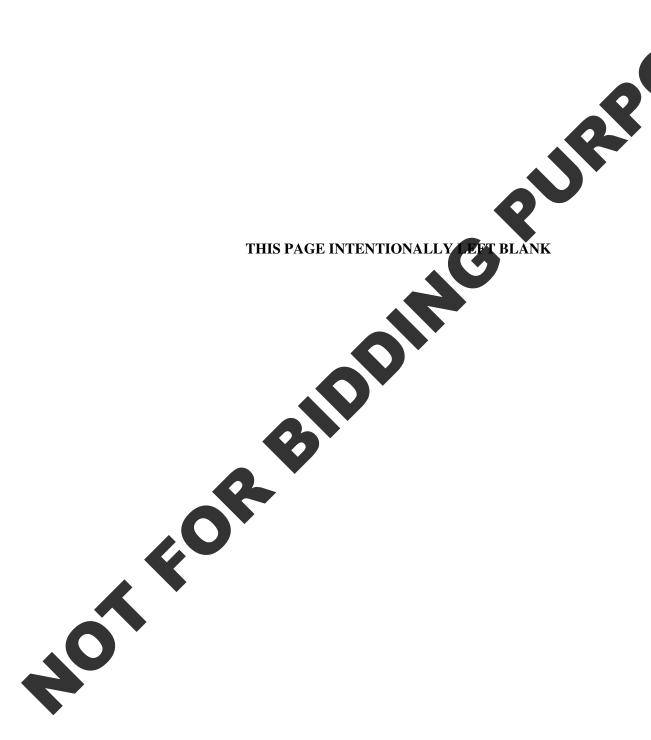
R G ARCHITECTS, LLC 19039

END OF SECTION 00 43 13

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ALLOWANCE AUTHORIZATION FORM

Contractor:		
AAA No.:	Initiatio	on Date:
The Allowance is allocated as fol	llows:	40
		2
Total original Contract Allowance was: Amount of Contract Allowance Access p Adjusted Contract Allowance prior to thi The amount of available Allowance will The remaining Contract Allowance, after	s authorization is. Decrease by this Access Authorization:	\$ \$ \$ \$ \$
Recommended by: Architect		
By (Signature): Date:		
Accepted by: Contractor	Approved by: Owner	
By (Signature): Date:	By (Signature): Date:	



STANDARD FORM OF AGREEMENT BETWEEN OWNER AND CONTRACTOR A101-2017

The contract to be utilized on this project shall be the "Standard Form of Agreement Between Owner and Contractor" AIA Document A101-2017, including AIA Document A101 – 2017 Exhibit A, as Supplements to A101-2017 and Exhibit A and the State of Delaware's General Requirements.

END OF SECTION 00 52 13

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PAFT AIA Document A101 - 2017

Standard Form of Agreement Between Owner and Contractor where

the basis of payment is a Stipulated Sur	m
AGREEMENT made as of the « » day of « » in the year « » (<i>In words, indicate day, month and year.</i>)	
BETWEEN the Owner: (Name, legal status, address and other information)	added information feeded for its completion. The author
<pre> « » « » « » « »</pre>	may also have revised the text of the original AIA standard form. An Addition and Deletions Report that hotes added information as
and the Contractor: (Name, legal status, address and other information)	well as revisions to the standard form text is available from the author an should be reviewed.
« »« » « » « » « »	This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion of modification.
for the following Project: (Name, location and detailed description) « » « »	The parties should complete A101™-2017, Exhibit A, Insurance and Bonds, contemporaneously with this Agreement. AIA Document A201™-2017, General Conditions of the Contract
« » The Architect: (Name, legal status, address and other information)	for Construction, is adopte in this document by reference. Do not use with other general conditions unless this document is modified.
« » « » « » « »	
The Owner and Contractor agree as follows.	
	ELECTRONIC COPYING of any portion of this AIA® Documen another electronic file is prohibited and constitutes violation of copyright laws set forth in the footer of the document.

ELECTRONIC COPYING of any portion of this AIA® Document to another electronic file is prohibited and constitutes a violation of copyright laws as set forth in the footer of this document.

TABLE OF ARTICLES

- 1 THE CONTRACT DOCUMENTS
- 2 THE WORK OF THIS CONTRACT
- 3 DATE OF COMMENCEMENT AND SUBSTANTIAL COMPLETION
- 4 CONTRACT SUM
- 5 PAYMENTS
- 6 DISPUTE RESOLUTION
- 7 TERMINATION OR SUSPENSION
- 8 MISCELLANEOUS PROVISIONS
- 9 ENUMERATION OF CONTRACT DOCUMENTS

EXHIBIT A INSURANCE AND BONDS

ARTICLE 1 THE CONTRACT DOCUMENTS

The Contract Documents consist of this Agreement, Conditions of the Contract (General, Supplementary, and other Conditions), Drawings, Specifications, Addenda issued prior to execution of this Agreement, other documents listed in this Agreement, and Modifications issued after execution of this Agreement, all of which form the Contract, and are as fully a part of the Contract as if attached to this Agreement of repeated herein. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations, or agreements, either written or oral. An enumeration of the Contract Documents, other than a Modification, appears in Article 9.

ARTICLE 2 THE WORK OF THIS CONTRACT

The Contractor shall fully execute the Work described in the Contract Documents, except as specifically indicated in the Contract Documents to be the responsibility of others.

ARTICLE 3 DATE OF COMMENCEMENT AND SUBSTANTIAL COMPLETION

§ 3.1 The date of commencement of the Work shall be: (Check one of the following boxes:)

[« »] The date of this Agreement

[(»] A date set forth in a notice to proceed issued by the Owner.

[(»] Established as follows:

(lasert a date or a means to determine the date of commencement of the Work.)

If a date of commencement of the Work is not selected, then the date of commencement shall be the date of this

3.2 The Contract Time shall be measured from the date of commencement of the Work.

§ 3.3 Substantial Completion

§ 3.3.1 Subject to adjustments of the Contract Time as provided in the Contract Documents, the Contractor shall achieve Substantial Completion of the entire Work:

(Check one of the following boxes and complete the necessary information.)

Not later than « » (« ») calendar days from the date of commencement of the Work.

	act Time as provided in the Contract Docum eletion of the entire Work, the Contractor sh ving dates:	
Portion of Work	Substantial Completion Date	
any, shall be assessed as set forth in Section ARTICLE 4 CONTRACT SUM § 4.1 The Owner shall pay the Contractor	abstantial Completion as provided in this Second 4.5. the Contract Sum in current funds for the C (\$ « »), subject to additions and deductions	Contractor's performance of the
§ 4.2 Alternates § 4.2.1 Alternates, if any, included in the G	Contract Sum:	
Item	Price	
execution of this Agreement. Upon accept (Insert below each alternate and the condition) Item § 4.3 Allowances, if any, included in the (Identify each allowance.)	$\mathbf{O}_{\mathbf{A}}$	to this Agreement.
§ 4.4 Unit prices, if any: (Identify the item and state the unit price of	Price and quantity limitations, if any, to which the	e unit price will be applicable.)
§ 4.5 Liquidated damages, if any: (Insert terms and conditions for liquidated) « ** § 4.6 Other: (Insert provisions for bonus or other incert) « **	Units and Limitations d damages, if any.) ntives, if any, that might result in a change t	Price per Unit (\$0.00)

[() By the following date: « »

3

ARTICLE 5 PAYMENTS

§ 5.1 Progress Payments

- § 5.1.1 Based upon Applications for Payment submitted to the Architect by the Contractor and Certificates for Payment issued by the Architect, the Owner shall make progress payments on account of the Contract Sum to the Contractor as provided below and elsewhere in the Contract Documents.
- § 5.1.2 The period covered by each Application for Payment shall be one calendar month ending on the last day of the month, or as follows:

« »

§ 5.1.3 Provided that an Application for Payment is received by the Architect not later than the « » day of a month, the Owner shall make payment of the amount certified to the Contractor not later than the « » day of the « » month. If an Application for Payment is received by the Architect after the application date fixed above, payment of the amount certified shall be made by the Owner not later than « » (« ») days after the Architect receives the Application for Payment.

(Federal, state or local laws may require payment within a certain period of time.)

- § 5.1.4 Each Application for Payment shall be based on the most recent schedule of values submitted by the Contractor in accordance with the Contract Documents. The schedule of values shall allocate the entire Contract Sum among the various portions of the Work. The schedule of values shall be prepared in such form, and supported by such data to substantiate its accuracy, as the Architect may require. This schedule of values shall be used as a basis for reviewing the Contractor's Applications for Payment.
- § 5.1.5 Applications for Payment shall show the percentage of completion of each portion of the Work as of the end of the period covered by the Application for Payment.
- § 5.1.6 In accordance with AIA Document A201TM–2017, General Conditions of the Contract for Construction, and subject to other provisions of the Contract Documents, the amount of each progress payment shall be computed as follows:
- § 5.1.6.1 The amount of each progress payment shall first include:
 - .1 That portion of the Contract Sum properly allocable to completed Work;
 - .2 That portion of the Contract Sum properly allocable to materials and equipment delivered and suitably stored at the site for subsequent incorporation in the completed construction, or, if approved in advance by the Owner, suitably stored off the site at a location agreed upon in writing; and
 - .3 That portion of Construction Change Directives that the Architect determines, in the Architect's professional judgment, to be reasonably justified.
- § 5.1.6.2 The amount of each progress payment shall then be reduced by:
 - .1 The aggregate of any amounts previously paid by the Owner;
 - .2 The amount, if any, for Work that remains uncorrected and for which the Architect has previously withheld a Certificate for Payment as provided in Article 9 of AIA Document A201–2017;
 - Any amount for which the Contractor does not intend to pay a Subcontractor or material supplier, anless the Work has been performed by others the Contractor intends to pay;
 - .4 For Work performed or defects discovered since the last payment application, any amount for which the Architect may withhold payment, or nullify a Certificate of Payment in whole or in part, as provided in Article 9 of AIA Document A201–2017; and
 - **.5** Retainage withheld pursuant to Section 5.1.7.

5.1.7 Retainage

5.1.7.1 For each progress payment made prior to Substantial Completion of the Work, the Owner may withhold the following amount, as retainage, from the payment otherwise due:

(Insert a percentage or amount to be withheld as retainage from each Application for Payment. The amount of retainage may be limited by governing law.)

« »

§ 5.1.7.1.1 The following items are not subject to retainage:

(Insert any items not subject to the withholding of retainage, such as general conditions, insurance, etc.)

« »

§ 5.1.7.2 Reduction or limitation of retainage, if any, shall be as follows:

(If the retainage established in Section 5.1.7.1 is to be modified prior to Substantial Completion of the entire Work, including modifications for Substantial Completion of portions of the Work as provided in Section 3.3.2, insert provisions for such modifications.)

§ 5.1.7.3 Except as set forth in this Section 5.1.7.3, upon Substantial Completion of the Work, the Com submit an Application for Payment that includes the retainage withheld from prior Applications for Pa to this Section 5.1.7. The Application for Payment submitted at Substantial Completion shall not tainage as

(Insert any other conditions for release of retainage upon Substantial Completion.)

- § 5.1.8 If final completion of the Work is materially delayed through no fault of the Cont ctor, the Owner shall pay the Contractor any additional amounts in accordance with Article 9 of AIA
- § 5.1.9 Except with the Owner's prior approval, the Contractor shall not make advance payments to suppliers for materials or equipment which have not been delivered and stored at

§ 5.2 Final Payment

- § 5.2.1 Final payment, constituting the entire unpaid balance of the Contract Sum, shall be made by the Owner to the Contractor when
 - the Contractor has fully performed the Contract except for the Contractor's responsibility to correct .1 Work as provided in Article 12 of Al Document A201–2017, and to satisfy other requirements, if any, which extend beyond final payment, and
 - .2 a final Certificate for Payment has l sued by the Architect.
- § 5.2.2 The Owner's final payment to the tor shall be made no later than 30 days after the issuance of the Architect's final Certificate for Paymen

§ 5.3 Interest

Payments due and unpaid under the Contract shall bear interest from the date payment is due at the rate stated below, the legal rate prevailing from time to time at the place where the Project is located. or in the absence the (Insert rate of in reed upon, if any.)



DISPUTE RESOLUTION ARTICLE 6

Initial Decision Maker

- hitect will serve as the Initial Decision Maker pursuant to Article 15 of AIA Document A201–2017, unless the rties appoint below another individual, not a party to this Agreement, to serve as the Initial Decision Maker.
- he parties mutually agree, insert the name, address and other contact information of the Initial Decision Maker, if er than the Architect.)

"	"

For any Claim method of bir	Dispute Resolution In subject to, but not resolved by, mediation pursuant to Article 15 of AIA Document dispute resolution shall be as follows: **Expropriate box.)	ament A201–2017, the
[« »]	Arbitration pursuant to Section 15.4 of AIA Document A201–2017	
[« »]	Litigation in a court of competent jurisdiction	
[« »]	Other (Specify)	
	« »	
	and Contractor do not select a method of binding dispute resolution, or do not sinding dispute resolution method other than litigation, Claims will be resolved risdiction.	
ARTICLE 7 § 7.1 The Cor A201–2017.	TERMINATION OR SUSPENSION ntract may be terminated by the Owner or the Contractor as provided in Article	4 of AIA Document
A201–2017, t	Contract is terminated for the Owner's convenience in accordance with Article then the Owner shall pay the Contractor a termination fee as follows: nount of, or method for determining, the fee, if any, payable to the Contractor for convenience.)	
« »		
§ 7.2 The Wo	ork may be suspended by the Owner as provided in Article 14 of AIA Documen	nt A201–2017.
	MISCELLANEOUS PROVISIONS reference is made in this Agreement to a provision of AIA Document A201–20 the reference refers to that provision as amended or supplemented by other provi	
	vner's representative: ess, email address, and other information)	
« » « » « » « »	OP-	
	ntractor's representative: ess, email address, and other information)	

§ 8.4 Neither the Owner's nor the Contractor's representative shall be changed without ten days' prior notice to the other party.

δ	8.5	Insurance	and Bonds
---	-----	-----------	-----------

§ 8.5.1 The Owner and the Contractor shall purchase and maintain insurance as set forth in AIA Document A101TM— 2017, Standard Form of Agreement Between Owner and Contractor where the basis of payment is a Stipulated Sum, Exhibit A, Insurance and Bonds, and elsewhere in the Contract Documents.

§ 8.5.2 The Contractor shall provide bonds as set forth in AIA Document A101TM-2017 Exhibit A, and elsewhere in the Contract Documents.

§ 8.6 Notice in electronic format, pursuant to Article 1 of AIA Document A201–2017, may be given in accordance with AIA Document E203TM–2013, Building Information Modeling and Digital Data Exhibit, if completed, or otherwise set forth below:

(If other than in accordance with AIA Document E203–2013, insert requirements for delivering notice in ele format such as name, title, and email address of the recipient and whether and how the system will be generate a read receipt for the transmission.)

§ 8.7 Other provisions:

ARTICLE 9 ENUMERATION OF CONTRACT DOCUMENTS

§ 9.1 This Agreement is comprised of the following documents:

- AIA Document A101TM–2017, Standard Form of Agreement Between Owner and Contractor
- .2 AIA Document A101TM–2017, Exhibit A, Insurance and Bonds
- .3 AIA Document A201TM–2017, General Conditions the Contract for Construction
- AIA Document E203TM–2013, Building Information Modeling and Digital Data Exhibit, dated as indicated below:

(Insert the date of the E203-2013 incorporation) this Agreement.)



.5 **Drawings**

.6

Number Date **Specifications**

Title

Section

Date **Pages**

Date

Portions of Addenda relating to bidding or proposal requirements are not part of the Contract Documents unless the bidding or proposal requirements are also enumerated in this Article 9.

Other Exhibits:

(Check all boxes that apply and include appropriate information identifying the exhibit where required.)

[« »] AIA Document E204TM–2017, Sustainable Projects Exhibit, dated as indicated below: (Insert the date of the E204-2017 incorporated into this Agreement.)



7

Pages

		Plan:	
	Title	Date	Pages
	[« »] Supplementary and	d other Conditions of the Contract:	
	Document	Title	Date Pages
.9	Document A201 TM _2017 pr sample forms, the Contractor requirements, and other information proposals, are not part of the documents should be listed	sted below: couments that are intended to form pa covides that the advertisement or invi- or's bid or proposal, portions of Add formation furnished by the Owner in a the Contract Documents unless enume there only if intended to be part of the	tation to bid, Instructions to Bidders, enda relating to bidding or proposal anticipation of receiving bids or erated in this Agreement. Any such
	« »		
Agreer	ment entered into as of the day	and year first written above.	
		CA	
ER (S	ignature)	CONTRACTOR (S	· · · · · · · · · · · · · · · · · · ·
			ignature)
« »		(x >>(x >>)	
	ame and title)	**** Pinted name an	
nted no		(x >>(x >>)	

8

SUPPLEMENT TO A101-2017 – EXHIBIT A INSURANCE AND BONDS

The following supplements modify the "Standard Form of Agreement Between Owner and Contractor," AIA Document A101-2017 Exhibit A Insurance and Bonds. Where a portion of the Standard Form of Agreement is modified or deleted by the following, the unaltered portions of the Standard Form of Agreement shall remain in effect.

ARTICLE A.2 OWNER'S INSURANCE

A.2.1 General

Delete paragraph A.2.1 in its entirety.

A.2.2 Liability Insurance

Delete paragraph A.2.2 in its entirety, except in the case of school projects this paragraph shall remain.

A.2.3 Required Property Insurance

Delete paragraph A.2.3 in its entirety.

A.2.4 Optional Extended Property Insurance

Delete paragraph A.2.4 in its entirety

A.2.5 Other Optional Insurance

Delete paragraph A.2.5 in its entired

ARTICLE A.3 CONTRACTORS INSURANCE AND BONDS

A.3.1.3 Additional Insured Obligations

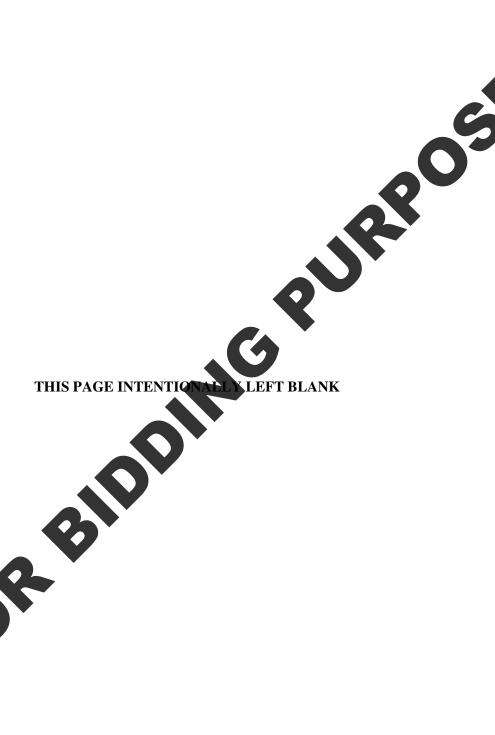
In the first sentence after "coverage to include (1)" delete "(1) the Owner,".

Strike the remainder of the first sentence beginning at the semicolon "; and (2) the Owner" through the end of the sentence.

Delete the second sentence in its entirety.

3.3.2.1 Delete paragraph 3.3.2.1 in its entirety and replace with the following:

Property Insurance of the same type and scope satisfying the requirements identified in Section A.2.3, The Contractor shall comply with all obligations of the Owner under A.2.3 except to the extent provided below. Upon request, the Contractor shall provide the Owner with a copy of the property insurance policy or policies required.



SUPPLEMENT TO AGREEMENT BETWEEN OWNER AND CONTRACTOR A101-2017

The following supplements modify the "Standard Form of Agreement Between Owner and Contractor," AIA Document A101-2017 Where a portion of the Standard Form of Agreement is modified or deleted by the following, the unaltered portions of the Standard Form of Agreement shall remain in effect.

ARTICLE 3: DATE OF COMMENCEMENT AND SUBSTANTIAL COMPLETION

3.1 Delete paragraph 3.1 in its entirety and replace with the following:

"The date of Commencement of the Work shall be a date set forth in a notice to proceed issued by the Owner."

ARTICLE 5: PAYMENTS

5.1 PROGRESS PAYMENTS

5.1.3 Delete paragraph 5.1.3 in its entirety and replace with the following:

"Provided that a valid Application for Payment is received by the Architect that meets all requirements of the Contract, payment shall be made by the Owner not later than 30 days after the Owner receives the valid Application for Payment."

5.3 Insert the interest rate of "1% per month not to exceed 12% per annum."

ARTICLE 6: DISPUTE RESOLUTION

6.2 BINDING DISPUTE RESOLUTION

Check Other - and add the following sentence:

"Any remedies available in law or in equity."

ARTICLE 7: TERMINATION or SUSPENSION

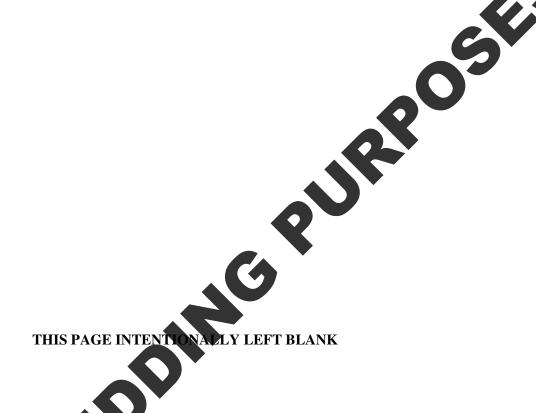
7.1.1 Pelete paragraph 7.1.1 in its entirety.

ARTICLE 8: MISCELLANEOUS PROVISIONS

Delete paragraph 8.4 in its entirety and replace with the following:

"The Contractor's representative shall not be changed without ten days written notice to the Owner."

END OF SUPPLEMENT TO AGREEMENT BETWEEN OWNER AND CONTRACTOR



PERFORMANCE BOND

	Bond	Number:
KNOW ALL PERSONS BY THESE PRES	ENTS, that we,	, as principa
("Principal"), and	, a	corporation, legally
authorized to do business in the State of De unto the Lake Forest School District		
(\$), to be paid to Owner , for	which payment well	and truly to be made, we do bind
ourselves, our and each and every of our he	eirs, executors, admir	nistrations, successors and assigns
jointly and severally, for and in the whole, fi		
Sealed with our seals and dated this	day of	
NOW THE CONDITION OF THIS OBLI	IGATION IS SUCH	that if Principal, who has been
awarded by Owner that certain contract kno	own as Contract No.	dated the
day of, 20 (the "Contract		
shall well and truly provide and furnish all i	materials, appliances a	and tools and perform all the world
required under and pursuant to the terms and		
(as defined in the Contract) or any changes		<u>*</u>
make good and reimburse Owner sufficient		1 0
Owner may sustain by reason of any fail		± * '
indemnify and save harmless Owner from all		
of the performance of the Contract and for		y the Contract; then this obligation
shall be void, otherwise to be and remain in	full force and effect.	

Surety, for value received, hereby stipulates and agrees, if requested to do so by **Owner**, to fully perform and complete the work to be performed under the Contract pursuant to the terms, conditions and covenants thereof, if for any cause **Principal** fails or neglects to so fully perform and complete such work.

Surety, for value received, for itself and its successors and assigns, hereby stipulates and agrees that the obligation of **Surety** and its bond shall be in no way impaired or affected by any extension of time, modification, omission, addition or change in or to the Contract or the work to be performed thereunder, or by any payment thereunder before the time required therein, or by any waiver of any provisions thereof, or by any assignment, subletting or other transfer thereof or of any work to be performed or any monies due or to become due thereunder; and **Surety** hereby waives notice of any and all such extensions, modifications, omissions, additions, changes, payments, waivers, assignments, subcontracts and transfers and hereby expressly stipulates and agrees that any and all things done and omitted to be done by and in relation to assignees, subcontractors, and other transferees shall have the same effect as to **Surety** as though done or omitted to be done by or in relation to **Principal**.

R G ARCHITECTS, LLC

19039

PERFORMANCE BOND

00 61 13.13 - 1

Surety hereby stipulates and agrees that no modifications, omissions or additions in or to the terms of the Contract shall in any way whatsoever affect the obligation of **Surety** and its bond.

Any proceeding, legal or equitable, under this Bond may be brought in any court of competent jurisdiction in the State of Delaware. Notices to **Surety** or Contractor may be mailed or delivered to them at their respective addresses shown below.

IN WITNESS WHEREOF, **Principal** and **Surety** have hereunto set their hand and seals, and such of them as are corporations have caused their corporate seal to be hereto affixed and these presents to be signed by their duly authorized officers, the day and year first above written.

	PRINCIPAL	
	Name:	
Witness or Attest: Address:		O'
	By:	(SEAL)
Name:	Name: Title:	(02.12)
(Corporate Seal)		
	SURETY Name:	
Witness or Attest: Address:		
	Ву:	(SEAL)
Name:	Name:	
(Corporate Seal)	Title:	
	END OF SECTION 00 61 13.13	

PAYMENT BOND

		Bond Number:	
KNOW ALL PERSONS BY THESE	E PRESENTS, that w	/e,	, as principal
(" Principal "), and	, a	corporation.	, legally authorized
("Principal"), and to do business in the State of Delawa	are, as surety ("Sure	ty"), are held and firm	nly bound unto the
Lake Forest School District ("Owne	r "), in the amount of	(\$), to
be paid to Owner, for which payment			
and every of our heirs, executors, adn	ninistrations, success	ors and assigns, jointly	and severally, for
and in the whole firmly by these prese	ents.		
Sealed with our seals and dated this _	day of	f20	
	0.001.001.001.001		
NOW THE CONDITION OF THIS			
awarded by Owner that certain contra			
of, 20 (the "Contra			
well and truly pay all and every pers			
about the performance of the work up		•	
them or any of them, for all such mater		-	
good and reimburse Owner sufficien			
Owner may sustain by reason of an		-	
indemnify and save harmless Owner f		1 0	•
of the performance of the Contract an shall be void, otherwise to be and rem		•	nen uns obligation
shan be void, otherwise to be and left	ant in ruii ioice and e	511 5Cl.	

Surety, for value received, for itself and its successors and assigns, hereby stipulates and agrees that the obligation of **Surety** and its bond shall be in no way impaired or affected by any extension of time, modification, omission, addition or change in or to the Contract or the work to be performed thereunder, or by any payment thereunder before the time required therein, or by any waiver of any provisions thereof, or by any assignment, subletting or other transfer thereof or of any work to be performed or any monies due or to become due thereunder; and **Surety** hereby waives notice of any and all such extensions, modifications, omissions, additions, changes, payments, waivers, assignments subcontracts and transfers and hereby expressly stipulates and agrees that any and all things done and omitted to be done by and in relation to assignees, subcontractors, and other transferees shall have the same effect as to **Surety** as though done or omitted to be done by or in relation to **Principal**.

Surety hereby stipulates and agrees that no modifications, omission or additions in or to the terms of the Contract shall in any way whatsoever affect the obligation of **Surety** and its bond.

Any proceeding, legal or equitable, under this Bond may be brought in any court of competent jurisdiction in the State of Delaware. Notices to **Surety** or Contractor may be mailed or delivered to them at their respective addresses shown below.

R G ARCHITECTS, LLC

19039

PAYMENT BOND

00 61 13.16 - 1

IN WITNESS WHEREOF, **Principal** and **Surety** have hereunto set their hand and seals, and such of them as are corporations have caused their corporate seal to be hereto affixed and these presents to be signed by their duly authorized officers, the day and year first above written.

PRINCIPAL	
Name:	
Ву:	(SEAL)
Name: Title:	
SURETY	
Name:	
Name:	(SEAL)
Title:	
ND OF SECTION 00 61 13.16	
	By:

SECTION 00 62 11

SUBMITTAL COVER SHEET FORM

OT FOR BIDDING PURPO See Continuation Sheet Attached Document.

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Date:	Submission No		No. of Copies
TO:	FRO	OM:	
R G Architects, LLC			
200 West Main Street			
Middletown, DE 19709			
Project Name and No.:			
Project Name and No.: Prime Contractor Name/Contract	Number:		
Subcontractor Name/Contract Nu Product Specification Section Name	mber:		
Product Specification Section Nar	ne/Number:		
Drawing Number/Name:			
Manufacturer:		Supplier:	
NOTE: Use a separate Submittal C	over Sheet for each	submittal Drav	ving or Catalog Cut.
Contractor/Subscattractor Commo	nto		
Contractor/Subcontractor Comme	าแร.		
Architect's Comments:			
Alemicot a Commenta.			
Contractor's Stamp:		A/E Stamp:	
		sional's opmation givexpressed APPROV Same as has been mode professional. quired and Columbia accordance with field. NOT APP Indicates susional's opin formation givessed in columbia accordance with field.	bmittal in design profes- ion does not conform with in- ven and design concept ex- ontract documents or that es not meet procedural re- of contract documents. Addi- ation may be provided by de-
		R G ARCHIT	ECT, LLC
		Date:	By:

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APPLICATION AND CERTIFICATE FOR PAYMENT

Application is made for payments in connection with the Contract. Continuation Sheet, AIA Document G702 OT FOR BIDDING PURPO & G703, is attached.

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TO OWNER:	PROJECT:	APPLICATION NO: 001 PERIOD TO: OWNER:
FROM CONTRACTOR:	VIA ARCHITECT:	CONTRACT FOR: General Construction CONTRACT DATE: PROJECT NOS: FIELD:
		OTHER:
CONTRACTOR'S APPLICATION FOR PAYMEN	P AYMENT	The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance
Application is made for payment, as shown below, in connection Continuation Sheet, AIA Document G703, is attached.	mection with the Contract.	with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and
1. ORIGINAL CONTRACT SUM	Transmitted S	0.00 that current payment shown herein is now due.
2. Net change by Change Orders	\$	0.00 CONTRACTOR:
3. CONTRACT SUM TO DATE (Line 1 ± 2)	\$	0.00 By:
4. TOTAL COMPLETED & STORED TO DATE (Column G on G703)	n G703) \$	\00 State of:
5. RETAINAGE:		County of:
a. 0 % of Completed Work		Subscribed and sworn to before
(Column D + E on G703)	\$ 0.00	this day of
b. 0 % of Stored Material		
(Column F on G703)	\$ 0.00	Notal Public:
Total Retainage (Lines 5a + 5b or Total in Column I of G703)	of G703)	0.00 Mr commission expires:
6. TOTAL EARNED LESS RETAINAGE	€	0.00 ARCHITECT'S CERTIFICATE FOR PAYMENT
(Line 4 Less Line 5 Total)		th the C
(Line 6 from prior Certificate)		information and before the Work has progressed as indicated, the quality of the Work is in accordance with the Centract Documents, and the Contractor is entitled to payment of the
8, CURRENT PAYMENT DUE	59	KTIFILED.
9. BALANCE TO FINISH, INCLUDING RETAINAGE		AMOUNT CERTIFIED\$ 0.00
(Line 3 less Line 6)	\$	(Attach explanation if an ord, sertified differs from the amount applied. Initial all figures on this Application and on the Continuation S net that are changed to conform with the amount certified.)
CHANGE ORDER SUMMARY	ADDITIONS DEDUCTIONS	ARCHITECT:
ous months by Owner	\$ 0.00 \$	0.00 By:
Total approved this Month	\$ 00.00	Ę
CIAIOI		
NET CHANGES by Change Order	4	the Owner of Contractor under this Contract

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▲ Document G703" - 1992

Continuation Sheet

D CERTIFICATION FOR PAYMENT, te for line items may apply. earest dollar. s attached. Use Column I on Contracts where variab In tabulations below, amounts are stated AIA Document G702, APPLICATION containing Contractor's signed certi

APPLICATION DATE: PERIOD TO:

APPLICATION NO: 001

ARCHITECT'S PROJECT NO.

Γ	1		<u>II</u>)	\neg	힞	
	I		RETAINAGE (IF VARIABLE RATE)		\$ 0.00	
NO:	H		BALANCE TO RETAINAGE FINISH (IF VARIABLE (C-G) RATE)	,	\$ 0.00	
ARCHITECT'S PROJECT NO:			% (G÷C)		0.00 %	
ARCHITEC	G	TOTAL	COMPLETED AND STORED TO DATE (D+E+F)		\$ 0.00	
	ഥ	MATERIALS		-	\$ 0.00	68
	E	MPLETED	THIS PERIOD		\$ 0.00	
	D	WORK COMPLETED	FROM PREMOUS APPLICATION (D + E)		\$ 0.00	
	() () () () () () () () () ()		SCHEDUNED VALUE		\$ 0.00	
	В		DESCRIPTION OF WORK		GRAND TOTAL	
	А		ITEM NO.			

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REQUEST FOR INTERPRETATION FORM

Request for interpretation is made for interpretation of the Contract Documents. Continuation Sheet, RFI Of FOR BIDDING PURPO FORMAT - 00 63 13, is attached.

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		R.F.I. Number:	
Го:		From:	
		Date:	
Re:		A/E Project Number:	0
		Contract For:	20
Specification Section:	Paragraph: Detail:	Ørav	ang Reference:
Request:			
		.6	
		No.	
	.0		
Signed by:	Date		
Response:			
40			
Response:			
Attachments			

R G ARCHITECTS, LLC 19039

RFI FORMAT 00 63 13 - 1

CHANGE ORDER FORM

Application is made for changes in connection with the Contract. Continuation Sheet, AIA Document G701 NOT FOR BIDDING PURPO is attached.

R G ARCHITECTS, LLC **CHANGE ORDER FORM** 19039 00 63 63 - 1 THIS PAGE INTENTIONALLY LEFT BLANK



Change Order

PROJECT: (name and address)	CONTRACT INFORMATION: Contract For: Date:	CHANGE ORDER INFORMATION: Change Order Number: Date:		
OWNER: (name and address)	ARCHITECT: (name and address)	CONTRACTOR: (name and address)		
THE CONTRACT IS CHANGED AS FOLLOWS: (Insert a detailed description of the charupon adjustments attributable to execute	nge and, if applicable, attach or reference	e specific exhibits. Also include agreed		
The original (Contract Sum) (Guarantee	d Maximum Price) was	\$		
The net change by previously authorized Change Orders				
The (Contract Sum) (Guaranteed Maximum Price) prior to this Change Order was				
The (Contract Sum) (Guaranteed Maximum Price) will be (increased) (decreased) (unchanged) by this Change Order in the amount of \$				
The new (Contract Sum) (Guaranteed M	Iaximum Price), including this Change Or	rder, will be \$		
The Contract Time will be (increased)	decreased (unchanged) by	() days.		
The new date of Substantial Completor	will be			
NOTE: This Change Order does not include adjustments to the Contract Sum or Guaranteed Maximum Price, or the Contract Time, that have been authorized by Construction Change Directive until the cost and time have been agreed upon by both the Owner and Contractor, in which case a Change Order is executed to supersede the Construction Change Directive.				
NOT VALID UNTIL SIGNED BY THE ARCH	HITECT, CONTRACTOR AND OWNER.			
ARCHITECT (Fund name)	CONTRACTOR (Firm name)	OWNER (Firm name)		
SIGNATURE	SIGNATURE	SIGNATURE		
PRINTED NAME AND TITLE	PRINTED NAME AND TITLE	PRINTED NAME AND TITLE		
DATE	DATE	DATE		



Certificate of Substantial Completion

PROJECT: (name and addr		FRACT INFORMATION: ract For:	CERTIFICATE INFORMATION: Certificate Number: Date:
OWNER: (name and addre	rs) ARCI	HITECT: (name and address)	CONTRACTOR: (name and address)
to be substantially comp designated portion is su	plete. Substantial Com fficiently complete in ts intended use. The d shed by this Certificat	pletion is the stage in the progre accordance with the Contract D ate of Substantial Completion o e.	est knowledge, information, and belief, ess of the Work when the Work or ocuments so that the Owner can occupy f the Project or portion designated
ARCHITECT (Firm Name)	SIGNATURE	PRINTED NAME AND TI	DATE OF SUBSTANTIAL COMPLETION
applicable warranties re	quired by the Contract	Documents, except as stated be	e is also the date of commencement of elow: tion, if any, and indicate their date of
WORK TO BE COMPLET A list of items to be con identified as follows: (Identify the list of Work	npleted or corrected is		as agreed upon by the parties, and
accordance with the Co warranties for items on final payment, whichever	refact Documents. Unlithe attached list will be a cocurs first. The Co	ess otherwise agreed to in writi e the date of issuance of the fina	of the Contractor to complete all Work in ng, the date of commencement of al Certificate of Payment or the date of at the Work on the list of items attached
Cost estimate of Work t	o be completed or cor	rected: \$	
insurance, and other iter Wore: Owner's and Con	ns identified below sh ntractor's legal and in	all be as follows: surance counsel should review	eat, utilities, damage to the Work, insurance requirements and coverage.) in this Certificate of Substantial
Completion:	tor hereby accept the	esponsioniues assigned to then	i in ans certificate of Substantial
CONTRACTOR (Firm Name)	SIGNATURE	PRINTED NAME AND TI	TLE DATE
OWNER (Firm Name)	SIGNATURE	PRINTED NAME AND TI	TI F DATE

SUBSTANTIAL COMPLETION FORM

Application is made for changes that need to be corrected in connection with the Contract. Continuation Sheet. OT FOR BIDDING PURPO AIA Document G704, is attached.



GENERAL CONDITIONS TO THE CONTRACT

The General Conditions of this Contract are as stated in the American Institute of Architects Document AIA A201 (2017 Edition) entitled <u>General Conditions of the Contract for Construction</u> as revised by the Supplementary General Conditions and is part of this project manual as if herein written in full.

END OF SECTION 00 72 13

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General Conditions of the Contract for Construction

for the following PROJECT:

(Name and location or address)

THE OWNER:

(Name, legal status and address)

THE ARCHITECT:

(Name, legal status and address)

TABLE OF ARTICLES

- 1 GENERAL PROVISIONS
- 2 OWNER
- 3 CONTRACTOR
- 4 ARCHITECT
- 5 SUBCONTRACTORS
- 6 CONSTRUCTION BY OWNER OR BY SEPARATE CONTRACTORS
- 7 CHANGES IN THE WORK
- 8 TIME
- 9 PAYMENTS AND COMPLETION
- 10 PROTECTION OF PERSONS AND PROPERTY
- 11 INSURANCE AND BONDS
- UNCOVERING AND CORRECTION OF WORK
 - MISCELLANEOUS PROVISIONS
 - TERMINATION OR SUSPENSION OF THE CONTRACT
- 15 CLAIMS AND DISPUTES



For guidance in modifying this coursely to include supplementary conditions, see AIA cocument A503™, Guide for supplementary Conditions.

INDEX

(Topics and numbers in bold are Section headings.)

Acceptance of Nonconforming Work

9.6.6, 9.9.3, 12.3

Acceptance of Work

9.6.6, 9.8.2, 9.9.3, 9.10.1, 9.10.3, 12.3

Access to Work

3.16, 6.2.1, 12.1

Accident Prevention

10

Acts and Omissions

3.2, 3.3.2, 3.12.8, 3.18, 4.2.3, 8.3.1, 9.5.1, 10.2.5,

10.2.8, 13.3.2, 14.1, 15.1.2, 15.2

Addenda

1.1.1

Additional Costs, Claims for

3.7.4, 3.7.5, 10.3.2, 15.1.5

Additional Inspections and Testing

9.4.2, 9.8.3, 12.2.1, 13.4

Additional Time, Claims for

3.2.4, 3.7.4, 3.7.5, 3.10.2, 8.3.2, 15.1.6

Administration of the Contract

3.1.3, 4.2, 9.4, 9.5

Advertisement or Invitation to Bid

1.1.1

Aesthetic Effect

4.2.13

Allowances

3.8

Applications for Payment

4.2.5, 7.3.9, 9.2, 9.3, 9.4, 9.5.1, 9.5.4, 9.6.3,

2.1.1, 2.3.1, 2.5, 3.1.3, 3.10.2, 3.12

4.2.7, 9.3.2, 13.4.1

Arbitration

8.3.1, 15.3.2, **15.4**

ARCHITECT

Architect, Definition of

Architect, Extent of Aut

63, 7.112, 7.3.4, 7.4, 9.2, 2.5, 3.127, 4.1.2

9.3.1. 9 4.4.3. 9.6.3. 78, 9.10.1, 9.10.3, 12.1, 12.2.1,

13.4.1, 13.4.2, 14.2.2, 14.2.4, 15.1.4, 15.2.1

Architect, Limitations of Authority and Responsibility

8.12.4, 3.12.8, 3.12.10, 4.12, 4.2.1, 4.2.2, 4.2.3,

7, 4.2.10, 4.2.12, 4.2.13, 5.2.1, 7.4, 9.4.2,

4, 9,6.4, 15.1.4,45.2

chitect's Additional Services and Expenses

5, 12.2.1, 13.4.2, 13.4.3, 14.2.4

Architect's Administration of the Contract

3.1.3, 3.7.4, 15.2, 9.4.1, 9.5

Architect's Approvals

2.5, 3.1.3, 3.5, 3.10.2, 4.2.7

Architect's Authority to Reject Work

3.5, 4.2.6, 12.1.2, 12.2.1

Architect's Copyright

1.1.7, 1.5

Architect's Decisions

3.7.4, 4.2.6, 4.2.7, 4.2.11, 4.2.12, 4.2.13, 4.2.14, 6.3, 7.3.4, 7.3.9, 8.1.3, 8.3.1, 9.2, 9.4.1, 9.5, 9.8.4, 9.9.1,

13.4.2, 15.2

Architect's Inspections

3.7.4, 4.2.2, 4.2.9, 9.4.2, 9.8.3, 9.9.2,

Architect's Instructions

3.2.4, 3.3.1, 4.2.6, 4.2.7, 13

Architect's Interpretations

4.2.11, 4.2.12,

Architect's Project Representative

4.2.10

Architect's Relationship with Cor 4,3.3.1, 3.4.2. 1.1.2, 1.5, 2.3.3, 3.1.3, 3.2.2, 3.2

N, 3.12, 3.16,

3.5, 3.7.4, 3.7.5, 3.9.2, 3.9.3 2, 9.3, 9.4, 9.5,

3.18, 4.1.2, 4.2, 5.2, 6.2.2

9.7, 9.8, 9.9, 10.2.6, 10.3 N.3 12, 13.3.2, 13.4, 15.2 Architect's Relationship with Subcontractors

6,96.3, 9.6.4, 11.3 1.1.2, 4.2.3, 4.2.4.

Architect's R intations.

9.4.2, 9.5.1,

Architect's Site

4,29,94.2, 9.5.1, 9.9.2, 9.10.1, 13.4

rneys' Fees

3.18.7, 9.6.8, 9.10.2, 10.3.3

ward of Separate Contracts

6.1.1, 6.1.2

Award of Subcontracts and Other Contracts for

Portions of the Work

Basic Definitions

1.1

Bidding Requirements

Binding Dispute Resolution

8.3.1, 9.7, 11.5, 13.1, 15.1.2, 15.1.3, 15.2.1, 15.2.5,

15.2.6.1, 15.3.1, 15.3.2, 15.3.3, 15.4.1

Bonds, Lien

7.3.4.4, 9.6.8, 9.10.2, 9.10.3

Bonds, Performance, and Payment

7.3.4.4, 9.6.7, 9.10.3, 11.1.2, 11.1.3, 11.5

Building Information Models Use and Reliance

1.8

Building Permit

3.7.1

Capitalization

Certificate of Substantial Completion

9.8.3, 9.8.4, 9.8.5

Certificates for Payment

4.2.1, 4.2.5, 4.2.9, 9.3.3, **9.4**, 9.5, 9.6.1, 9.6.6, 9.7,

9.10.1, 9.10.3, 14.1.1.3, 14.2.4, 15.1.4

Certificates of Inspection, Testing or Approval

13.4.4

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Certificates of Insurance 15.4.4 9.10.2 CONSTRUCTION BY OWNER OR BY Change Orders SEPARATE CONTRACTORS 1.1.1, 3.4.2, 3.7.4, 3.8.2.3, 3.11, 3.12.8, 4.2.8, 5.2.3, 7.1.2, 7.1.3, 7.2, 7.3.2, 7.3.7, 7.3.9, 7.3.10, 8.3.1, Construction Change Directive, Definition of 9.3.1.1, 9.10.3, 10.3.2, 11.2, 11.5, 12.1.2 7.3.1 Change Orders, Definition of **Construction Change Directives** 1.1.1, 3.4.2, 3.11, 3.12.8, 4.2.8, 7.1.1.7.1.2. CHANGES IN THE WORK 2.2.2, 3.11, 4.2.8, 7, 7.2.1, 7.3.1, 7.4, 8.3.1, 9.3.1.1, Construction Schedules, Contractor's 11.5 3.10, 3.11, 3.12.1, 3.12.2, 613, 15.162 Claims, Definition of Contingent Assignment of Subcontra 15.1.1 **5.4.** 14.2.2.2 Claims, Notice of Continuing Contract Performa 1.6.2, 15.1.3 15.1.4 CLAIMS AND DISPUTES Contract, Definition of 3.2.4, 6.1.1, 6.3, 7.3.9, 9.3.3, 9.10.4, 10.3.3, **15**, 15.4 Claims and Timely Assertion of Claims 1.1.2 CONTRACT, TERMINATION OR SUSPENSION OF THE Claims for Additional Cost 5.4.1.1, 5.4.2, 11 3.2.4, 3.3.1, 3.7.4, 7.3.9, 9.5.2, 10.2.5, 10.3.2, 15.1.5 Contract Admin Claims for Additional Time 3.1.3, 4, 9.4, 3.2.4, 3.3.1, 3.7.4, 6.1.1, 8.3.2, 9.5.2, 10.3.2, 15.1.6 Contract Award and Execution, Conditions Relating to Concealed or Unknown Conditions, Claims for 3.10, 5.2, 6.1 3.7.4 fract Documents, Copies Furnished and Use of Claims for Damages 3.2.4, 3.18, 8.3.3, 9.5.1, 9.6.7, 10.2.5, 10.3.3, 11.3, stract Documents, Definition of 11.3.2, 14.2.4, 15.1.7 Claims Subject to Arbitration ontract Sum 15.4.1 2.2.2, 2.2.4, 3.7.4, 3.7.5, 3.8, 3.10.2, 5.2.3, 7.3, 7.4, 9.1, Cleaning Up 9.2. 9.4.2, 9.5.1.4, 9.6.7, 9.7, 10.3.2, 11.5, 12.1.2, 12.3, 3.15, 6.3 14.2.4. 14.3.2. 15.1.4.2. **15.1.5. 15.2.5** Commencement of the Work, Conditions Reli Contract Sum, Definition of 2.2.1, 3.2.2, 3.4.1, 3.7.1, 3.10.1, 3.12.6, 5.2 9.1 6.2.2, 8.1.2, 8.2.2, 8.3.1, 11.1, 11.2, 15 Contract Time Commencement of the Work, Defin 1.1.4, 2.2.1, 2.2.2, 3.7.4, 3.7.5, 3.10.2, 5.2.3, 6.1.5, 8.1.2 7.2.1.3, 7.3.1, 7.3.5, 7.3.6, 7, 7, 7.3.10, 7.4, 8.1.1, 8.2.1, Communications 8.2.3, 8.3.1, 9.5.1, 9.7, 10.3.2, 12.1.1, 12.1.2, 14.3.2, 3.9.1, 4.2.4 15.1.4.2, 15.1.6.1, 15.2.5 Completion, Conditions **celati**ng to Contract Time, Definition of 3.4.1, 3.11, 3.1**5, 4.2.2** 8.1.1 9.10, 12.2, 14.1.2 CONTRACTOR COMPLETION, PAY Contractor, Definition of Completion Substantial 3.10.1,429, 811,813, 8.2.3, 9.42, 9.8, 9.9.1, 3.1, 6.1.2 Contractor's Construction and Submittal Schedules 9.10.3, 12.2, 15 3.10, 3.12.1, 3.12.2, 4.2.3, 6.1.3, 15.1.6.2 mpliance with Laws Contractor's Employees 3, 3.6, 3.7, 3.12.10, 3.13, 9.6.4, 10.2.2, 13.1, 3, 13.4.1, 13.4.2, 13.5, 14.11, 14.2.1.3, 15.2.8, 2.2.4, 3.3.2, 3.4.3, 3.8.1, 3.9, 3.18.2, 4.2.3, 4.2.6, 10.2, 10.3, 11.3, 14.1, 14.2.1.1 4.2, 15.4.3 Contractor's Liability Insurance Concealed or Unknown Conditions 3.7.4, 4.2.8, 8.3.1, 10.3 Contractor's Relationship with Separate Contractors Conditions of the Contract and Owner's Forces 1.1.1, 6.1.1, 6.1.4 3.12.5, 3.14.2, 4.2.4, 6, 11.3, 12.2.4 Consent, Written 3.4.2, 3.14.2, 4.1.2, 9.8.5, 9.9.1, 9.10.2, 9.10.3, 13.2,

Consolidation or Joinder

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15.4.4.2

Init.

Date of Substantial Completion, Definition of Contractor's Relationship with Subcontractors 8.1.3 1.2.2, 2.2.4, 3.3.2, 3.18.1, 3.18.2, 4.2.4, 5, 9.6.2, 9.6.7, Day, Definition of 9.10.2, 11.2, 11.3, 11.4 8.1.4 Contractor's Relationship with the Architect Decisions of the Architect 1.1.2. 1.5. 2.3.3. 3.1.3. 3.2.2. 3.2.3. 3.2.4. 3.3.1. 3.4.2, 3.7.4, 4.2.6, 4.2.7, 4.2.11, 4.2.12, 4.2.13, 6.3, 7.3.4, 3.5.1, 3.7.4, 3.10, 3.11, 3.12, 3.16, 3.18, 4.2, 5.2, 6.2.2, 7.3.9, 8.1.3, 8.3.1, 9.2, 9.4, 9.5.1, 9.8.4, 9.9.1, 13.4.2, 7, 8.3.1, 9.2, 9.3, 9.4, 9.5, 9.7, 9.8, 9.9, 10.2.6, 10.3, 14.2.2, 14.2.4, 15.1, 15.2 11.3, 12, 13.4, 15.1.3, 15.2.1 Decisions to Withhold Certification Contractor's Representations 9.4.1, **9.5**, 9.7, 14.1.1.3 3.2.1, 3.2.2, 3.5, 3.12.6, 6.2.2, 8.2.1, 9.3.3, 9.8.2 Defective or Nonconforming Work, Acceptance Contractor's Responsibility for Those Performing the Rejection and Correction of Work 2.5, 3.5, 4.2,6, 6, 2.3, 9.5.1, 9, 5, 3, 9, 6, 6, 3.3.2, 3.18, 5.3, 6.1.3, 6.2, 9.5.1, 10.2.8 9.10.4, 12.2.1 Contractor's Review of Contract Documents **Definitions** 12.3, 4.1.1, 5.1, 1.1. 2.1.1. 3.1.1. 3.5. 3.12.1. 3.1 Contractor's Right to Stop the Work 6.1.2, 7.2.1, 7.3.1, 8.1, 9.1. 2.2.2, 9.7 Delays and Extensions Contractor's Right to Terminate the Contract **4.8.3**, 9.5.1, **9.7**, 10.3.2, 3.2, 3.7.4, 5.2.3, 7.2.14 10.4, 14.3.2, 15.1.6, 15. Contractor's Submittals Digital Data Use and Transmission 3.10, 3.11, 3.12, 4.2.7, 5.2.1, 5.2.3, 9.2, 9.3, 9.8.2, 1.7 9.8.3, 9.9.1, 9.10.2, 9.10.3 Disputes Contractor's Superintendent 6.3, 7.3.9, 15.1, 3.9, 10.2.6 Documents and Samples at the Site Contractor's Supervision and Construction Procedures 1.2.2, 3.3, 3.4, 3.12.10, 4.2.2, 4.2.7, 6.1.3, 6.2.4, 7.1.3, Definition of 7.3.4, 7.3.6, 8.2, 10, 12, 14, 15.1.4 Coordination and Correlation Drawings and Specifications, Use and Ownership of 1.2, 3.2.1, 3.3.1, 3.10, 3.12.6, 6.1.3, 6.2.1 Copies Furnished of Drawings and Specifications Effective Date of Insurance 1.5, 2.3.6, 3.11 8.2.2 Copyrights **Emergencies** 1.5, 3.17 10.4, 14.1.1.2, 15.1.5 Correction of Work Employees, Contractor's 2.5, 3.7.3, 9.4.2, 9.8.2, 9.8.3, 9.9.1, 12 3.3.2, 3.4.3, 3.8.1, 3.9, 3.18.2, 4.2.3, 4.2.6, 10.2, 10.3.3, 15.1.3.1, 15.1.3.2, 15.2.1 11.3, 14.1, 14.2.1.1 Documents Correlation and Intent of the G Equipment, Labor, or Materials 1.2 1.1.3, 1.1.6, 3.4, 3.5, 3.8.2, 3.8.3, 3.12, 3.13, 3.15.1, Cost, Definition of 4.2.6, 4.2.7, 5.2.1, 6.2.1, 7.3.4, 9.3.2, 9.3.3, 9.5.1.3, 7.3.4 9.10.2, 10.2.1, 10.2.4, 14.2.1.1, 14.2.1.2 Costs Execution and Progress of the Work 5.4.2, 6.1.1, 6.2.3 2.5, 3.2.4, 3.7,3, 3 7.3.3.3,*1*.3.4, 7. 1.1.3, 1.2.1, 1.2.2, 2.3.4, 2.3.6, 3.1, 3.3.1, 3.4.1, 3.7.1, 0.2, 10.3.2, 10.3.6, 11.2, 3.10.1, 3.12, 3.14, 4.2, 6.2.2, 7.1.3, 7.3.6, 8.2, 9.5.1, 12.1.2, 12.2, 9.9.1, 10.2, 10.3, 12.1, 12.2, 14.2, 14.3.1, 15.1.4 Cutting and Patching Extensions of Time 3.14, 6.2.5 3.2.4, 3.7.4, 5.2.3, 7.2.1, 7.3, 7.4, 9.5.1, 9.7, 10.3.2, Damage to Construction of Owner or Separate 10.4, 14.3, 15.1.6, **15.2.5** ntractors Failure of Payment **2**.4, 10.2.1.2, 10.2.5, 10.4, 12.2.4 9.5.1.3, 9.7, 9.10.2, 13.5, 14.1.1.3, 14.2.1.2 mage to the Work Faulty Work 4.2. 9.9.1. 10.2.1.2, 10.2.5, 10.4, 12.2.4 (See Defective or Nonconforming Work) Damages, Claims for Final Completion and Final Payment 3.2.4, 3.18, 6.1.1, 8.3.3, 9.5.1, 9.6.7, 10.3.3, 11.3.2, 4.2.1, 4.2.9, 9.8.2, 9.10, 12.3, 14.2.4, 14.4.3 11.3, 14.2.4, 15.1.7 Financial Arrangements, Owner's Damages for Delay 2.2.1, 13.2.2, 14.1.1.4 6.2.3, 8.3.3, 9.5.1.6, 9.7, 10.3.2, 14.3.2 GENERAL PROVISIONS Date of Commencement of the Work, Definition of 1 8.1.2

lnit.

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Governing Law 13.1 Guarantees (See Warranty) Hazardous Materials and Substances 10.2.4. 10.3 Identification of Subcontractors and Suppliers 5.2.1 Indemnification 3.17, 3.18, 9.6.8, 9.10.2, 10.3.3, 11.3 Information and Services Required of the Owner 2.1.2, 2.2, 2.3, 3.2.2, 3.12.10.1, 6.1.3, 6.1.4, 6.2.5, 9.6.1, 9.9.2, 9.10.3, 10.3.3, 11.2, 13.4.1, 13.4.2, 14.1.1.4. 14.1.4. 15.1.4 **Initial Decision** 15.2 Initial Decision Maker, Definition of 1.1.8 Initial Decision Maker, Decisions 14.2.4, 15.1.4.2, 15.2.1, 15.2.2, 15.2.3, 15.2.4, 15.2.5 Initial Decision Maker, Extent of Authority 14.2.4, 15.1.4.2, 15.2.1, 15.2.2, 15.2.3, 15.2.4, 15.2.5 Injury or Damage to Person or Property 10.2.8, 10.4 Inspections 3.1.3, 3.3.3, 3.7.1, 4.2.2, 4.2.6, 4.2.9, 9.4.2, 9.8.3, 9.9.2, 9.10.1, 12.2.1, 13.4 Instructions to Bidders 1.1.1 Instructions to the Contractor 3.2.4, 3.3.1, 3.8.1, 5.2.1, 7, 8.2.2, 12, 13.4.2 Instruments of Service, Definition of 1.1.7 Insurance 6.1.1, 7.3.4, 8.2.2, 9.3.2, 9.8.4, 9.9.1, 9.10.2 Insurance, Notice of Cancellation or Ex 11.1.4, 11.2.3 Insurance, Contractor's Liability 11.1 Insurance, Effective Date of 8.2.2, 14.4.2 Insurance, Owner's Liab 11.2 Insurance, Prop 10.2.5,/11.2 ored Materials Insurance, 9.3.2 INSURANCE AND BONDS Companies, Consent to Partial Occupancy insuranc sured loss. Adjustment and Settlement of

Intent of the Contract Documents

1.1.8, 1.2,3, **1.4**, 4.1.1, 5.1, 6.1.2, 15.1.1

1.2.1, 4.2.7, 4.2.12, 4.2.13

Interest

Interpretation

13.5

4.2.11, 4.2.12 Judgment on Final Award 15.4.2 Labor and Materials, Equipment 1.1.3, 1.1.6, 3.4, 3.5, 3.8.2, 3.8.3, 3.12, 3.13, 3.15.1, 5.2.1, 6.2.1, 7.3.4, 9.3.2, 9.3.3, 9.5.1.3, 9.10.2, 10.2.1. 10.2.4, 14.2.1.1, 14.2.1.2 Labor Disputes 8.3.1 Laws and Regulations 1.5, 2.3.2, 3.2.3, 3.2.4, 3.6, B.7, 3.12.40, 3.13 9.9.1, 10.2.2, 13.1, 13.3.1, 13.4.2, 43.5 Liens 2.1.2, 9.3.1, 9.3.3, 9.6.8, 9.10.2, Limitations, Statutes of 12.2.5, 15.1.2, 15.4.1.1 Limitations of Liability 3.2.2, 3.5, 3.12.10, 3.12.10. 317.318.1, 4.2.6, 4.2.7, 6.2.2, 9,4.2, 9.6.4, 9,6.7, 6.8, 10.2.5, 10.3.3, 11.3, 12.2.5. 13.3.1 Limitations of 22, 3.10, 3, 11, 3.12.5, 3.15.1, 4.2.7, 5.2, 5.3, 5.4.1, 6.2 4, 7.8, 7.4, 8.2, 9.2, 9.3.1, 9.3.3, 5 9.6, 97, 9.8, 9.9, 9.10, 12.2, 13.4, 14, 15, 5,13, 15,1.5 Hazardous 10.3 Materials, Labor, Equipment and 1.3, 1.1.6, 3.4.1, 3.5, 3.8.2, 3.8.3, 3.12, 3.13, 3.15.1, 52.1, 6.2.1, 7.3.4, 9.3.2, 9.3.3, 9.5.1.3, 9.10.2, 10.2.1.2, 10.2.4, 14.2.1.1, 14.2.1.2 Means, Methods, Techniques, Sequences and Procedures of Construction 3.3.1, 3.12.10, 4.2.2, 4.2.7, 9.4.2 Mechanic's Lien 2.1.2, 9.3.1, 9.3.3, 9.6.8, 9.10.2, 9.10.4, 15.2.8 Mediation 8.3.1, 15.1.3.2, 15.2.1, 15.2.5, 15.2.6, **15.3**, 15.4.1, 15.4.1.1 Minor Changes in the Work 1.1.1, 3.4.2, 3.12.8, 4.2.8, 7.1, 7.4 MISCELLANEOUS PROVISIONS 13 Modifications, Definition of 1.1.1 Modifications to the Contract 1.1.1, 1.1.2, 2.5, 3.11, 4.1.2, 4.2.1, 5.2.3, 7, 8.3.1, 9.7, 10.3.2 Mutual Responsibility Nonconforming Work, Acceptance of 9.6.6, 9.9.3, 12.3 Nonconforming Work, Rejection and Correction of 2.4, 2.5, 3.5, 4.2.6, 6.2.4, 9.5.1, 9.8.2, 9.9.3, 9.10.4, 12.2

Interpretations, Written

init.

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Notice **1.6.** 1.6.1, 1.6.2, 2.1.2, 2.2.2, 2.2.3, 2.2.4, 2.5, 3.2.4, 3.3.1, 3.7.4, 3.7.5, 3.9.2, 3.12.9, 3.12.10, 5.2.1, 7.4, 8.2.2 9.6.8, 9.7, 9.10.1, 10.2.8, 10.3.2, 11.5, 12.2.2.1, 13.4.1, 13.4.2, 14.1, 14.2.2, 14.4.2, 15.1.3, 15.1.5, 15.1.6, 15.4.1 Notice of Cancellation or Expiration of Insurance 11.1.4, 11.2.3 Notice of Claims 1.6.2, 2.1.2, 3.7.4, 9.6.8, 10.2.8, 15.1.3, 15.1.5, 15.1.6, 15.2.8, 15.3.2, 15.4.1 Notice of Testing and Inspections 13.4.1, 13.4.2 Observations, Contractor's 3.2, 3.7.4 Occupancy 2.3.1, 9.6.6, 9.8 Orders, Written 1.1.1, 2.4, 3.9.2, 7, 8.2.2, 11.5, 12.1, 12.2.2.1, 13.4.2, 14.3.1 OWNER Owner, Definition of 2.1.1 Owner, Evidence of Financial Arrangements 2.2, 13.2.2, 14.1.1.4 Owner, Information and Services Required of the 2.1.2, 2.2, 2.3, 3.2.2, 3.12.10, 6.1.3, 6.1.4, 6.2.5, 9.3.2 9.6.1, 9.6.4, 9.9.2, 9.10.3, 10.3.3, 11.2, 13.4.1, 13.4.2, 14.1.1.4, 14.1.4, 15.1.4 Owner's Authority 1.5, 2.1.1, 2.3.32.4, 2.5, 3.4.2, 3.8.1, 3.12.10, 4.1.2, 4.2.4, 4.2.9, 5.2.1, 5.2.4, 5.4.1, 6.1, 6.3 7.3.1, 8.2.2, 8.3.1, 9.3.2, 9.5.1, 9.6.4, 9.9.110.3.2, 11.4, 11.5, 12.2.2, 12.3, 13.2.2 15.2.7 Owner's Insurance 11.2 Owner's Relationship with Subcontro 1.1.2, 5.2, 5.3, 5.4, 9.6.4 2, 14.2 Owner's Right to Carry **2.5**, 14.2.2 Owner's Right to Clean Up Owner's Rightto Regiorm Construction and to Award Separate Contracts r's Right to Stop the Work ner's Right to Súspend the Work wner's Right to Terminate the Contract 14.2, 14.4 Ownership and Use of Drawings, Specifications and

9.6.6. 9.9 Patching, Cutting and 3.14, 6.2.5 Patents 3.17 Payment, Applications for 4.2.5, 7.3.9, 9.2, 9.3, 9.4, 9.5, 9.6.3 14.2.3, 14.2.4, 14.4.3 Payment, Certificates for 4.2.5, 4.2.9, 9.3.3, 9.4, 9.5, 9.6.1, 9.6.6.97 9.10.3, 14.1.1,3, 14.2.4 Payment, Failure of 9.5.1.3, 9.7, 9.10.2, 13.5, 14.1, 1.3, 14 Payment, Final 4.2.1, 4.2.9, 9.10, 12.3, 14.2.4, Payment Bond, Performand 7.3.4.4, 9.6.7, 9:10.3, 11. Payments. Progress 9.3, 9.6, 9.8.5, 9.10.3, 1 PAYMENTS AND COMPLETION Payments to Subcontractors 5.4.2, 9.5.1.3, 9.6.2, 9.6.3, 9.6.4, 9.6.7, 14.2.1.2 PCEnance Bond and Payment Bond 4.4, 9.6.7, 9.10.3, **11.1.2** Permits, Fees, Notices and Compliance with Laws 3.1, 3.7, 3.13, 7.3.4.4, 10.2.2 PERSONS AND PROPERTY, PROTECTION OF Polychlorinated Biphenyl 10.3.1 Product Data, Definition of 3.12.2 Product Data and Samples, Shop Drawings 3.11, 3.12, 4.2.7 **Progress and Completion** 4.2.2, 8.2, 9.8, 9.9.1, 14.1.4, 15.1.4 **Progress Payments** 9.3, 9.6, 9.8.5, 9.10.3, 14.2.3, 15.1.4 Project, Definition of 1.1.4 Project Representatives 4.2.10 **Property Insurance** 10.2.5, **11.2** Proposal Requirements 1.1.1 PROTECTION OF PERSONS AND PROPERTY Regulations and Laws 1.5, 2.3.2, 3.2.3, 3.6, 3.7, 3.12.10, 3.13, 9.6.4, 9.9.1, 10.2.2, 13.1, 13.3, 13.4.1, 13.4.2, 13.5, 14, 15.2.8, 15.4 Rejection of Work

Partial Occupancy or Use

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4.2.6, 12.2.1

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Other Instruments of Service

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1.1.1, 1.1.6, 1.1.7, 1.5, 2.3.6, 3.2.2, 3.11, 3.17, 4.2.12,

Releases and Waivers of Liens 9.3.1, 9.10.2 Representations 3.2.1, 3.5, 3.12.6, 8.2.1, 9.3.3, 9.4.2, 9.5.1, 9.10.1 Representatives 2.1.1, 3.1.1, 3.9, 4.1.1, 4.2.10, 13.2.1 Responsibility for Those Performing the Work 3.3.2, 3.18, 4.2.2, 4.2.3, 5.3, 6.1.3, 6.2, 6.3, 9.5.1, 10 Retainage 9.3.1, 9.6.2, 9.8.5, 9.9.1, 9.10.2, 9.10.3 Review of Contract Documents and Field **Conditions by Contractor 3.2**, 3.12.7, 6.1.3 Review of Contractor's Submittals by Owner and Architect 3.10.1, 3.10.2, 3.11, 3.12, 4.2, 5.2, 6.1.3, 9.2, 9.8.2 Review of Shop Drawings, Product Data and Samples by Contractor 3.12 Rights and Remedies 1.1.2, 2.4, 2.5, 3.5, 3.7.4, 3.15.2, 4.2.6, 5.3, 5.4, 6.1, 6.3, 7.3.1, 8.3, 9.5.1, 9.7, 10.2.5, 10.3, 12.2.1, 12.2.2, 12.2.4, **13.3**, 14, 15.4 Royalties, Patents and Copyrights 3.17 Rules and Notices for Arbitration 15.4.1 Safety of Persons and Property **10.2**, 10.4 **Safety Precautions and Programs** 3.3.1, 4.2.2, 4.2.7, 5.3, 10.1, 10.2, 10.4 Samples, Definition of 3.12.3 Samples, Shop Drawings, Product Data 3.11, 3.12, 4.2.7 Samples at the Site, Documents at Schedule of Values 9.2, 9.3.1 Schedules, Construction 3.10, 3.12.1, 3.12.2, 6.1 Separate Contracts 1.1.4, 3, 12.5, 3.14. 6, 8.3.1, 12.1.2 Separate Contractors Definition of Shop Drawings Definition of Drawings, Product Data and Samples 11, 3, 12, 4.2.7 e. Use of **3.13**, 6.1.1, 6.2.1 ite Inspections 3.2.2, 3.3.3, 3.7.1, 3.7.4, 4.2, 9.9.2, 9.4.2, 9.10.1, 13.4 Site Visits, Architect's

3.7.4, 4.2.2, 4.2.9, 9.4.2, 9.5.1, 9.9.2, 9.10.1, 13.4

Special Inspections and Testing

4.2.6, 12.2.1, 13.4

Specifications, Definition of 1.1.6 **Specifications** 1.1.1, 1.1.6, 1.2.2, 1.5, 3.12.10, 3.17, 4.2.14 Statute of Limitations 15.1.2, 15.4.1.1 Stopping the Work 2.2.2, 2.4, 9.7, 10.3, 14.1 Stored Materials 6.2.1, 9.3.2, 10.2.1.2, 10.2.4 Subcontractor, Definition of 5.1.1 SUBCONTRACTORS Subcontractors, Work by 5,3,5,4,9.3.1.2, 1.2.2, 3.3.2, 3.12.1, 3.18, 4.2.3 9.6.7 Subcontractual Relation 21,141, 14.2.1 **5.3**, 5.4, 9.3.11.2, 9.6, Submittals 5.2.3, 7.3.4, 9.2, 9.3, 9.8, 3.10, 3.11, 3.12 9.9.1, 9.10.2 Submittal School 3.10.2<u>,</u> 3.1**2.5**. Subrogation, Waivers of ces, Hazardous Substantial Completion 2.9, 8.1.1, 8.1.3, 8.2.3, 9.4.2, **9.8**, 9.9.1, 9.10.3, 12.2, Substantial Completion, Definition of 9.8.1 Substitution of Subcontractors 5.2.3, 5.2.4 Substitution of Architect 2.3.3 Substitutions of Materials 3,4.2, 3.5, 7.3.8 Sub-subcontractor, Definition of 5.1.2 Subsurface Conditions 3.7.4 Successors and Assigns 13.2 Superintendent **3.9.** 10.2.6 **Supervision and Construction Procedures** 1.2.2, 3.3, 3.4, 3.12.10, 4.2.2, 4.2.7, 6.1.3, 6.2.4, 7.1.3, 7.3.4, 8.2, 8.3.1, 9.4.2, 10, 12, 14, 15.1.4 Suppliers 1.5, 3.12.1, 4.2.4, 4.2.6, 5.2.1, 9.3, 9.4.2, 9.5.4, 9.6, 9.10.5, 14.2.1 Surety 5.4.1.2, 9.6.8, 9.8.5, 9.10.2, 9.10.3, 11.1.2, 14.2.2, 15.2.7 Surety, Consent of

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9.8.5, 9.10.2, 9.10.3

lnit.

Surveys 1.1.7, 2.3.4 Suspension by the Owner for Convenience Suspension of the Work 3.7.5, 5.4.2, 14.3 Suspension or Termination of the Contract 5,4,1,1,14 Taxes 3.6, 3.8.2.1, 7.3.4.4 Termination by the Contractor 14.1, 15.1.7 Termination by the Owner for Cause 5.4.1.1, 14.2, 15.1.7 Termination by the Owner for Convenience Termination of the Architect 2.3,3 Termination of the Contractor Employment 14.2.2 TERMINATION OR SUSPENSION OF THE CONTRACT 14 **Tests and Inspections** 3.1.3, 3.3.3, 3.7.1, 4.2.2, 4.2.6, 4.2.9, 9.4.2, 9.8.3, 9.9.2, 9.10.1, 10.3.2, 12.2.1, 13.4 TIME Time, Delays and Extensions of 3.2.4, 3.7.4, 5.2.3, 7.2.1, 7.3.1, 7.4, 8.3, 9.5.1, 9.5 10.3.2, 10.4, 14.3.2, 15.1.6, 15.2.5 Time Limits 2.1.2, 2.2, 2.5, 3.2.2, 3.10, 3.11, 3.12.5, 3. 5.3, 5.4, 6.2.4, 7.3, 7.4, 8.2, 9.2, 9.3.1 9.6, 9.7, 9.8, 9.9, 9.10, 12.2, 13.4, **Time Limits on Claims** 3.7.4, 10.2.8, 15.1.2, 15.1. Title to Work 9.3.2, 9.3.3

UNCOVERING AND CORRECTION OF WORK Uncovering of Work 12.1 Unforeseen Conditions, Concealed or Unknown 3.7.4, 8.3.1, 10.3 **Unit Prices** 7.3.3.2, 9.1.2 Use of Documents 1.1.1, 1.5, 2.3.6, 3.12.6, 5.3 Use of Site 3.13, 6.1.1, 6,2.1 Values, Schedule of 9.2, 9.3.1 Waiver of Claims by the Architec 13.3.2 Waiver of Claims by the C 9.10.5, 13.3, 2, 15.1, 7 Waiver of Claims by 9.9.3, 9.10.3, 9.10.4 12. 2, 14.2.4, **15.1.7** Waiver of Consequential mages 14.2.4. 15.1. Waiver of Li 9.3, 9.10.2, 9.1 ers of Subrogation 2.9, 93 3, 9.8.4, 9.9 1, 9.10.2, 9.10.4, 12.2.2, Veather Delays 8.3, 15.1.6.2 Work Definition of 1.1.3 Written Consent 1.5.2, 3.4.2, 3.7.4, 3.12.8, 3.14.2, 4.1.2, 9.3.2, 9.10.3, 13.2, 13.3.2, 15.4.4.2 Written Interpretations 4.2.11, 4.2.12

1.1.1, 2.4, 3.9, 7, 8.2.2, 12.1, 12.2, 13.4.2, 14.3.1

Written Orders

ARTICLE 1 GENERAL PROVISIONS

§ 1.1 Basic Definitions

§ 1.1.1 The Contract Documents

The Contract Documents are enumerated in the Agreement between the Owner and Contractor (hereinafter the Agreement) and consist of the Agreement, Conditions of the Contract (General, Supplementary and other Conditions), Drawings, Specifications, Addenda issued prior to execution of the Contract, other documents listed in the Agreement, and Modifications issued after execution of the Contract. A Modification is (1) a written amendment to the Contract signed by both parties, (2) a Change Order, (3) a Construction Change Directive, or (4) a written order for a minor change in the Work issued by the Architect. Unless specifically enumerated in the Agreement, the Contract Docume do not include the advertisement or invitation to bid, Instructions to Bidders, sample forms, other information hur by the Owner in anticipation of receiving bids or proposals, the Contractor's bid or proposal or portions of Adden relating to bidding or proposal requirements.

§ 1.1.2 The Contract

The Contract Documents form the Contract for Construction. The Contract represents the entire and agreement between the parties hereto and supersedes prior negotiations, representations, or agreement either written or oral. The Contract may be amended or modified only by a Modification. The Contract Documents shall not be construed to create a contractual relationship of any kind (1) between the Contractor and the Architect's construed to create a contractual relationship of any kind (1) between the Contractor and the consultants, (2) between the Owner and a Subcontractor or a Sub-subcontractor, (3) between the Owner and the Architect or the Architect's consultants, or (4) between any persons or entities other than the Owner and the Contractor. The Architect shall, however, be entitled to performance and enforcement of obligations under the Contract intended to facilitate performance of the Architect's duties.

§ 1.1.3 The Work

The term "Work" means the construction and services required by the Contract Documents, whether completed or partially completed, and includes all other labor, materials, equipment, and services provided or to be provided by the constitute the whole or a part of the Project. Contractor to fulfill the Contractor's obligations. The Work may

§ 1.1.4 The Project

under the Contract Documents may be the whole or a The Project is the total construction of which the Work per forme part and which may include construction by the Owner and by Separate Contractors.

§ 1.1.5 The Drawings

The Drawings are the graphic and pictorial portions of the Contract Documents showing the design, location and elevations, sections, details, schedules, and diagrams. dimensions of the Work, generally including plans

§ 1.1.6 The Specifications

The Specifications are that portion of the Contract Documents consisting of the written requirements for materials, equipment, systems, standards and workmanship for the Work, and performance of related services.

§ 1.1.7 Instruments of Service

presentations in any medium of expression now known or later developed, of the tangible Instruments of Ser preparation of the Architect and the Architect's consultants under their respective and intangible creative v acreements. Instruments of Service may include, without limitation, studies, surveys, models, professional servi wings, specifications, and other similar materials. sketches,

§ 1.1.8 Initial Decision Maker

hitial Decision Maker is the person identified in the Agreement to render initial decisions on Claims in accordance tion 15.2. The Initial Decision Maker shall not show partiality to the Owner or Contractor and shall not be ble for results of interpretations or decisions rendered in good faith.

1.2 Correlation and Intent of the Contract Documents

§ 1.2.1 The intent of the Contract Documents is to include all items necessary for the proper execution and completion of the Work by the Contractor. The Contract Documents are complementary, and what is required by one shall be as binding as if required by all; performance by the Contractor shall be required only to the extent consistent with the Contract Documents and reasonably inferable from them as being necessary to produce the indicated results.

§ 1.2.1.1 The invalidity of any provision of the Contract Documents shall not invalidate the Contract or its remaining

provisions. If it is determined that any provision of the Contract Documents violates any law, or is otherwise invalid or unenforceable, then that provision shall be revised to the extent necessary to make that provision legal and enforceable. In such case the Contract Documents shall be construed, to the fullest extent permitted by law, to give effect to the parties' intentions and purposes in executing the Contract.

§ 1.2.2 Organization of the Specifications into divisions, sections and articles, and arrangement of Drawings shall not control the Contractor in dividing the Work among Subcontractors or in establishing the extent of Work to be performed by any trade.

§ 1.2.3 Unless otherwise stated in the Contract Documents, words that have well-known technical or construction industry meanings are used in the Contract Documents in accordance with such recognized meanings.

§ 1.3 Capitalization

Terms capitalized in these General Conditions include those that are (1) specifically defined, (2) the titl articles, or (3) the titles of other documents published by the American Institute of Architects.

§ 1.4 Interpretation

In the interest of brevity the Contract Documents frequently omit modifying words such a such as "the" and "an," but the fact that a modifier or an article is absent from one statement and appears in another is not intended to affect the interpretation of either statement.

§ 1.5 Ownership and Use of Drawings, Specifications, and Other Instruments of Service § 1.5.1 The Architect and the Architect's consultants shall be deemed the authors and owners of their respective Instruments of Service, including the Drawings and Specifications, and retain all common law, statutory, and other reserved rights in their Instruments of Service, including copyrights. The Contractor, Subcontractors, Subcontractors, and suppliers shall not own or claim a copyright in the Instruments of Service. Submittal or distribution to meet official regulatory requirements or for other purposes in connection with the Project is not to be construed as publication in derogation of the Architect's or Architect's consultants' reserved rights.

§ 1.5.2 The Contractor, Subcontractors, Sub-subcontractors, and suppliers are authorized to use and reproduce the Instruments of Service provided to them, subject to any protocols established pursuant to Sections 1.7 and 1.8, solely and exclusively for execution of the Work. All copies made under this authorization shall bear the copyright notice, if any, shown on the Instruments of Service. The Contractor, Subcontractors, Sub-subcontractors, and suppliers may not use the Instruments of Service on other projects of the Project outside the scope of the Work without the specific written consent of the Owner, Architect, and the Architect's consultants.

§ 1.6 Notice

§ 1.6.1 Except as otherwise provided in Section 1.6.2, where the Contract Documents require one party to notify or give notice to the other party, such notice shall be provided in writing to the designated representative of the party to whom the notice is addressed and shall be deemed to have been duly served if delivered in person, by mail, by courier, or by electronic transmission is set forth in the Agreement ethod for electronic transmission is set forth in the Agreement. electronic transmission if

aims as provided in Section 15.1.3 shall be provided in writing and shall be deemed to have been § 1.6.2 Notice of delivered to the designated representative of the party to whom the notice is addressed by certified or duly served and registered mail or by courier providing proof of delivery.

§ 1.7 Digital Data Use and Transmission

arties shall agree upon protocols governing the transmission and use of Instruments of Service or any other information or documentation in digital form. The parties will use AIA Document E203™-2013, Building Information deling and Digital Data Exhibit, to establish the protocols for the development, use, transmission, and exchange of ital data.

§ 1.8 Building Information Models Use and Reliance

Any use of, or reliance on, all or a portion of a building information model without agreement to protocols governing the use of, and reliance on, the information contained in the model and without having those protocols set forth in AIA Document E203™-2013, Building Information Modeling and Digital Data Exhibit, and the requisite AIA Document G202TM_2013, Project Building Information Modeling Protocol Form, shall be at the using or relying party's sole risk and without liability to the other party and its contractors or consultants, the authors of, or contributors to, the building

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information model, and each of their agents and employees.

ARTICLE 2 OWNER

§ 2.1 General

§ 2.1.1 The Owner is the person or entity identified as such in the Agreement and is referred to throughout the Contract Documents as if singular in number. The Owner shall designate in writing a representative who shall have express authority to bind the Owner with respect to all matters requiring the Owner's approval or authorization. Except as otherwise provided in Section 4.2.1, the Architect does not have such authority. The term "Owner" means the Owner the Owner's authorized representative.

§ 2.1.2 The Owner shall furnish to the Contractor, within fifteen days after receipt of a written request, information necessary and relevant for the Contractor to evaluate, give notice of, or enforce mechanic's lien rights Such in shall include a correct statement of the record legal title to the property on which the Project is located, to as the site, and the Owner's interest therein.

§ 2.2 Evidence of the Owner's Financial Arrangements

§ 2.2.1 Prior to commencement of the Work and upon written request by the Contractor, the work and upon written request by the Contractor, the Contractor reasonable evidence that the Owner has made financial arrangements to fulfill the the Contract. The Contractor shall have no obligation to commence the Work until the wher provides such evidence. If commencement of the Work is delayed under this Section 2.2.1, the Contract Time shall be extended appropriately.

§ 2.2.2 Following commencement of the Work and upon written request by the Contractor, the Owner shall furnish to the Contractor reasonable evidence that the Owner has made financial arrangements to fulfill the Owner's obligations under the Contract only if (1) the Owner fails to make payments to the Contract Documents require; (2) the Contractor identifies in writing a reasonable concern regarding the Owner's ability to make payment when due; or (3) a change in the Work materially changes the Contract Sum. If the Owner fails to provide such evidence, as required, within fourteen days of the Contractor's request, the Contractor say immediately stop the Work and, in that event, shall notify the Owner that the Work has stopped. However, I the request is made because a change in the Work materially changes the Contract Sum under (3) above, the Contractor may immediately stop only that portion of the Work affected by the change until reasonable evidence is provided. If the Work is stopped under this Section 2.2.2, the Contract Time shall be extended appropriately and the Contract Sum shall be increased by the amount of the Contractor's reasonable costs of shutdown, delay and start-up, plus interest as provided in the Contract Documents.

§ 2.2.3 After the Owner furnishes evidence of finantial arrangements under this Section 2.2, the Owner shall not materially vary such financial arrangements without prior notice to the Contractor.

§ 2.2.4 Where the Owner has designated into mation furnished under this Section 2.2 as "confidential," the Contractor shall keep the information confidential and shall not disclose it to any other person. However, the Contractor may disclose "confidential" information, after seven (7) days notice to the Owner, where disclosure is required by law, including a subpoena or other form of compulsory legal process issued by a court or governmental entity, or by court or arbitrator(s) order. The Contractor may also disclose "confidential" information to its employees, consultants, sureties, Subcontractors and their employees, Sub-subcontractors, and others who need to know the content of such information solely and exclusively for the Project and who agree to maintain the confidentiality of such information.

§ 2.3 Information and Services Required of the Owner

§ 2.3.1 Except for permits and fees that are the responsibility of the Contractor under the Contract Documents, including equired under Section 3.7.1/ the Owner shall secure and pay for necessary approvals, easements, assessments and s required for construction use or occupancy of permanent structures or for permanent changes in existing facilitie

§23.2 The Owner shall retain an architect lawfully licensed to practice architecture, or an entity lawfully practicing chitecture, in the jurisdiction where the Project is located. That person or entity is identified as the Architect in the Agreement and is referred to throughout the Contract Documents as if singular in number.

§ 2.3.3 If the employment of the Architect terminates, the Owner shall employ a successor to whom the Contractor has no reasonable objection and whose status under the Contract Documents shall be that of the Architect.

§ 2.3.4 The Owner shall furnish surveys describing physical characteristics, legal limitations and utility locations for the

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site of the Project, and a legal description of the site. The Contractor shall be entitled to rely on the accuracy of information furnished by the Owner but shall exercise proper precautions relating to the safe performance of the Work.

§ 2.3.5 The Owner shall furnish information or services required of the Owner by the Contract Documents with reasonable promptness. The Owner shall also furnish any other information or services under the Owner's control and relevant to the Contractor's performance of the Work with reasonable promptness after receiving the Contractor's written request for such information or services.

§ 2.3.6 Unless otherwise provided in the Contract Documents, the Owner shall furnish to the Contractor one copy of Contract Documents for purposes of making reproductions pursuant to Section 1.5.2.

§ 2.4 Owner's Right to Stop the Work

If the Contractor fails to correct Work that is not in accordance with the requirements of the Contract Do required by Section 12.2 or repeatedly fails to carry out Work in accordance with the Contract Document may issue a written order to the Contractor to stop the Work, or any portion thereof, until the cause been eliminated; however, the right of the Owner to stop the Work shall not give rise to a duty of the part of the Owner to exercise this right for the benefit of the Contractor or any other person or entity, except to nt required by Section 6.1.3.

§ 2.5 Owner's Right to Carry Out the Work

If the Contractor defaults or neglects to carry out the Work in accordance with the Contract Documents and fails within a ten-day period after receipt of notice from the Owner to commence and continue correction of such default or neglect with diligence and promptness, the Owner may, without prejudice to other remedies the Owner may have, correct such default or neglect. Such action by the Owner and amounts charged to the Contractor are both subject to prior approval of the Architect and the Architect may, pursuant to Section 951, without or nullify a Certificate for Payment in whole or in part, to the extent reasonably necessary to reimburse the Owner for the reasonable cost of correcting such deficiencies, including Owner's expenses and compensation for the Architect's additional services made necessary by such default, neglect, or failure. If current and future payments are not sufficient to cover such amounts, the Contractor shall pay the difference to the Owner. If the Contractor disagrees with the actions of the Owner or the Architect, or the amounts claimed as costs to the Owner, the Contractor may tile a Claim pursuant to Article 15.

ARTICLE 3 CONTRACTOR

§ 3.1 General

§ 3.1.1 The Contractor is the person or entity identified as such in the Agreement and is referred to throughout the Contract Documents as if singular in number. The Contractor shall be lawfully licensed, if required in the jurisdiction where the Project is located. The Contractor shall designate un writing a representative who shall have express authority to all matters under this Contract. The term "Contractor" means the Contractor or the to bind the Contractor with respect Contractor's authorized representation

§ 3.1.2 The Contractor shall perform the Work in accordance with the Contract Documents.

§ 3.1.3 The Contractor shall not be relieved of its obligations to perform the Work in accordance with the Contract vities or duties of the Architect in the Architect's administration of the Contract, or by tests, Documents either by acti required or performed by persons or entities other than the Contractor. inspections of approvals

§ 3.2 Review of Contract Documents and Field Conditions by Contractor

§ 3.21 Execution of the Contract by the Contractor is a representation that the Contractor has visited the site, become ly familiar with local conditions under which the Work is to be performed, and correlated personal observations equirements of the Contract Documents.

§3.2.2 Because the Contract Documents are complementary, the Contractor shall, before starting each portion of the Work, carefully study and compare the various Contract Documents relative to that portion of the Work, as well as the information furnished by the Owner pursuant to Section 2.3.4, shall take field measurements of any existing conditions related to that portion of the Work, and shall observe any conditions at the site affecting it. These obligations are for the purpose of facilitating coordination and construction by the Contractor and are not for the purpose of discovering errors, omissions, or inconsistencies in the Contract Documents; however, the Contractor shall promptly report to the Architect any errors, inconsistencies or omissions discovered by or made known to the Contractor as a request for information in such form as the Architect may require. It is recognized that the Contractor's review is made in the Contractor's

capacity as a contractor and not as a licensed design professional, unless otherwise specifically provided in the Contract Documents.

§ 3.2.3 The Contractor is not required to ascertain that the Contract Documents are in accordance with applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, but the Contractor shall promptly report to the Architect any nonconformity discovered by or made known to the Contractor as a request for information in such form as the Architect may require.

§ 3.2.4 If the Contractor believes that additional cost or time is involved because of clarifications or instructions the Architect issues in response to the Contractor's notices or requests for information pursuant to Sections 3.2.2 or 3.2.3, the Contractor shall submit Claims as provided in Article 15. If the Contractor fails to perform the obligations of Sections 3.2.2 or 3.2.3, the Contractor shall pay such costs and damages to the Owner, subject to Section 15.1.7.35 would have been avoided if the Contractor had performed such obligations. If the Contractor performs those obligations, the Contractor shall not be liable to the Owner or Architect for damages resulting from errors inconsistencies or omissions in the Contract Documents, for differences between field measurements of conditions and the Contract Documents, or for nonconformities of the Contract Documents to applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities.

§ 3.3 Supervision and Construction Procedures

§ 3.3.1 The Contractor shall supervise and direct the Work, using the Contractor's best skill and attention. The Contractor shall be solely responsible for, and have control over, construction means, methods, techniques, sequences, and procedures, and for coordinating all portions of the Work under the Contract. If the Contract Documents give specific instructions concerning construction means, methods, techniques, sequences, or procedures, the Contractor shall evaluate the jobsite safety thereof and shall be solely responsible for the jobsite safety of such means, methods, techniques, sequences, or procedures. If the Contractor determines that such means, methods, techniques, sequences or procedures may not be safe, the Contractor shall give timely notice to the Owner and Architect, and shall propose alternative means, methods, techniques, sequences, or procedures. The Architect shall evaluate the proposed alternative solely for conformance with the design intent for the completed construction. Unless the Architect objects to the Contractor's proposed alternative, the Contractor shall perform the Work using its alternative means, methods, techniques, sequences, or procedures.

§ 3.3.2 The Contractor shall be responsible to the Owner for acts and omissions of the Contractor's employees, Subcontractors and their agents and employees, and other persons or entities performing portions of the Work for, or on behalf of, the Contractor or any of its Subcontractors.

§ 3.3.3 The Contractor shall be responsible for inspection of portions of Work already performed to determine that such portions are in proper condition to receive subsequent Work.

§ 3.4 Labor and Materials

§ 3.4.1 Unless otherwise provided in the Contract Documents, the Contractor shall provide and pay for labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary to proper execution and completion of the Work, whether temporary or permanent and whether or not incorporated or to be incorporated in the Work.

§ 3.4.2 Except in the case of minor changes in the Work approved by the Architect in accordance with Section 3.12.8 or ordered by the Architect in accordance with Section 7.4, the Contractor may make substitutions only with the consent of the Owner, after evaluation by the Architect and in accordance with a Change Order or Construction Change Directive.

§ 3.4.3 The Contractor shall enforce strict discipline and good order among the Contractor's employees and other persons carrying out the Work. The Contractor shall not permit employment of unfit persons or persons not properly skilled in tasks assigned to them.

§ 3.5 Warranty

§ 3.5.1 The Contractor warrants to the Owner and Architect that materials and equipment furnished under the Contract will be of good quality and new unless the Contract Documents require or permit otherwise. The Contractor further warrants that the Work will conform to the requirements of the Contract Documents and will be free from defects, except for those inherent in the quality of the Work the Contract Documents require or permit. Work, materials, or equipment not conforming to these requirements may be considered defective. The Contractor's warranty excludes

remedy for damage or defect caused by abuse, alterations to the Work not executed by the Contractor, improper or insufficient maintenance, improper operation, or normal wear and tear and normal usage. If required by the Architect, the Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment.

§ 3.5.2 All material, equipment, or other special warranties required by the Contract Documents shall be issued in the name of the Owner, or shall be transferable to the Owner, and shall commence in accordance with Section 9.8.4.

§ 3.6 Taxes

The Contractor shall pay sales, consumer, use and similar taxes for the Work provided by the Contractor that are legally enacted when bids are received or negotiations concluded, whether or not yet effective or merely scheduled to go into effect.

§ 3.7 Permits, Fees, Notices and Compliance with Laws

§ 3.7.1 Unless otherwise provided in the Contract Documents, the Contractor shall secure and pay for the suilding permit as well as for other permits, fees, licenses, and inspections by government agencies necessary for proper execution and completion of the Work that are customarily secured after execution of the Contract and legally required at the time bids are received or negotiations concluded.

§ 3.7.2 The Contractor shall comply with and give notices required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities applicable to performance of the Work.

§ 3.7.3 If the Contractor performs Work knowing it to be contrary to applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, the Contractor shall assume appropriate responsibility for such Work and shall bear the costs attributable to correction.

§ 3.7.4 Concealed or Unknown Conditions

If the Contractor encounters conditions at the site that are (1) subsurface or otherwise concealed physical conditions that differ materially from those indicated in the Contract Documents or (2) unknown physical conditions of an unusual nature that differ materially from those ordinarily found to exist and generally recognized as inherent in construction activities of the character provided for in the Contract Documents, the Contractor shall promptly provide notice to the Owner and the Architect before conditions are distanced and in no event later than 14 days after first observance of the conditions. The Architect will promptly investigate such conditions and, if the Architect determines that they differ materially and cause an increase or decrease in the Contractor's cost of, or time required for, performance of any part of the Work, will recommend that an equitable adjustment be made in the Contract Sum or Contract Time, or both. If the Architect determines that the conditions at the site are not materially different from those indicated in the Contract Documents and that no change in the terms of the Contract is justified, the Architect shall promptly notify the Owner and Contractor, stating the reasons in either party disputes the Architect's determination or recommendation, that party may submit a Claim as provided in Article 15:

§ 3.7.5 If, in the course of the Work; the Contractor encounters human remains or recognizes the existence of burial markers, archaeological sites or vetlands not indicated in the Contract Documents, the Contractor shall immediately suspend any operations that would affect them and shall notify the Owner and Architect. Upon receipt of such notice, the Owner shall promptly take any action necessary to obtain governmental authorization required to resume the operations. The Contractor shall continue to suspend such operations until otherwise instructed by the Owner but shall continue with all other operations that do not affect those remains or features. Requests for adjustments in the Contract Sum and Contract Time arising from the existence of such remains or features may be made as provided in Article 15.

§ 3.8 Allowances

\$3.8.1 The Contractor shall include in the Contract Sum all allowances stated in the Contract Documents. Items covered by allowances shall be supplied for such amounts and by such persons or entities as the Owner may direct, but the Contractor shall not be required to employ persons or entities to whom the Contractor has reasonable objection.

§ 3.8.2 Unless otherwise provided in the Contract Documents,

.1 allowances shall cover the cost to the Contractor of materials and equipment delivered at the site and all required taxes, less applicable trade discounts;

.2 Contractor's costs for unloading and handling at the site, labor, installation costs, overhead, profit, and other expenses contemplated for stated allowance amounts shall be included in the Contract Sum but not in the allowances; and

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- .3 whenever costs are more than or less than allowances, the Contract Sum shall be adjusted accordingly by Change Order. The amount of the Change Order shall reflect (1) the difference between actual costs and the allowances under Section 3.8.2.1 and (2) changes in Contractor's costs under Section 3.8.2.2.
- § 3.8.3 Materials and equipment under an allowance shall be selected by the Owner with reasonable promptness.

§ 3.9 Superintendent

- § 3.9.1 The Contractor shall employ a competent superintendent and necessary assistants who shall be in attendance at the Project site during performance of the Work. The superintendent shall represent the Contractor, and communications given to the superintendent shall be as binding as if given to the Contractor.
- § 3.9.2 The Contractor, as soon as practicable after award of the Contract, shall notify the Owner and Architect of the name and qualifications of a proposed superintendent. Within 14 days of receipt of the information, the Architectural's notify the Contractor, stating whether the Owner or the Architect (1) has reasonable objection to the proposed superintendent or (2) requires additional time for review. Failure of the Architect to provide notice within the 4-day period shall constitute notice of no reasonable objection.
- § 3.9.3 The Contractor shall not employ a proposed superintendent to whom the Owner or Archiect has made reasonable and timely objection. The Contractor shall not change the superintendent without the Owner's consent, which shall not unreasonably be withheld or delayed.

§ 3.10 Contractor's Construction and Submittal Schedules

- § 3.10.1 The Contractor, promptly after being awarded the Contract, shall submit for the Owner's and Architect's information a Contractor's construction schedule for the Work. The schedule shall contain detail appropriate for the Project, including (1) the date of commencement of the Work, interim schedule milestone dates, and the date of Substantial Completion; (2) an apportionment of the Work by construction activity, and (3) the time required for completion of each portion of the Work. The schedule shall provide for the orderly progression of the Work to completion and shall not exceed time limits current under the Contract Documents. The schedule shall be revised at appropriate intervals as required by the conditions of the Work and Project.
- § 3.10.2 The Contractor, promptly after being awarded the Contract and thereafter as necessary to maintain a current submittal schedule, shall submit a submittal schedule for the Architect's approval. The Architect's approval shall not be unreasonably delayed or withheld. The submittal schedule shall (1) be coordinated with the Contractor's construction schedule, and (2) allow the Architect reasonable time to review submittals. If the Contractor fails to submit a submittal schedule, or fails to provide submittals in accordance with the approved submittal schedule, the Contractor shall not be entitled to any increase in Contract Sum or extension of Contract Time based on the time required for review of submittals.
- § 3.10.3 The Contractor shall perform the Work in general accordance with the most recent schedules submitted to the Owner and Architect.

§ 3.11 Documents and Samples at the Site

The Contractor shall make available, at the Project site, the Contract Documents, including Change Orders, Construction Change Directives, and other Modifications, in good order and marked currently to indicate field changes and selections made during construction, and the approved Shop Drawings, Product Data, Samples, and similar required submittals. These shall be in electronic form or paper copy, available to the Architect and Owner, and delivered to the Architect for submittal to the Owner upon completion of the Work as a record of the Work as constructed.

3.12 Shop Drawings, Product Data and Samples

- 12.1 Shop Drawings are drawings, diagrams, schedules, and other data specially prepared for the Work by the Contractor or a Subcontractor, Sub-subcontractor, manufacturer, supplier, or distributor to illustrate some portion of the Work.
- § 3.12.2 Product Data are illustrations, standard schedules, performance charts, instructions, brochures, diagrams, and other information furnished by the Contractor to illustrate materials or equipment for some portion of the Work.
- § 3.12.3 Samples are physical examples that illustrate materials, equipment, or workmanship, and establish standards by which the Work will be judged.

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§ 3.12.4 Shop Drawings, Product Data, Samples, and similar submittals are not Contract Documents. Their purpose is to demonstrate how the Contractor proposes to conform to the information given and the design concept expressed in the Contract Documents for those portions of the Work for which the Contract Documents require submittals. Review by the Architect is subject to the limitations of Section 4.2.7. Informational submittals upon which the Architect is not expected to take responsive action may be so identified in the Contract Documents. Submittals that are not required by the Contract Documents may be returned by the Architect without action.

§ 3.12.5 The Contractor shall review for compliance with the Contract Documents, approve, and submit to the Architect Shop Drawings, Product Data, Samples, and similar submittals required by the Contract Documents, in accordance with the submittal schedule approved by the Architect or, in the absence of an approved submittal schedule, with respirable promptness and in such sequence as to cause no delay in the Work or in the activities of the Owner or of Separate Contractors.

§ 3.12.6 By submitting Shop Drawings, Product Data, Samples, and similar submittals, the Contractor represents to the Owner and Architect that the Contractor has (1) reviewed and approved them, (2) determined and verified materials, field measurements and field construction criteria related thereto, or will do so, and (3) checked and coordinated the information contained within such submittals with the requirements of the Work and of the Contract Documents.

§ 3.12.7 The Contractor shall perform no portion of the Work for which the Contract Documents require submittal and review of Shop Drawings, Product Data, Samples, or similar submittals, until the respective submittal has been approved by the Architect.

§ 3.12.8 The Work shall be in accordance with approved submittals except that the Contractor shall not be relieved of responsibility for deviations from the requirements of the Contract Documents by the Architect's approval of Shop Drawings, Product Data, Samples, or similar submittals, unless the Contractor has specifically notified the Architect of such deviation at the time of submittal and (1) the Architect has given written approval to the specific deviation as a minor change in the Work, or (2) a Change Order or Construction Change Directive has been issued authorizing the deviation. The Contractor shall not be relieved of responsibility for errors or omissions in Shop Drawings, Product Data, Samples, or similar submittals, by the Architect's approval thereof.

§ 3.12.9 The Contractor shall direct specific attention, in writing or on resubmitted Shop Drawings, Product Data, Samples, or similar submittals, to revisions other than those requested by the Architect on previous submittals. In the absence of such notice, the Architect's approval of a resubmission shall not apply to such revisions.

§ 3.12.10 The Contractor shall not be required to provide professional services that constitute the practice of architecture or engineering unless such services are specifically required by the Contract Documents for a portion of the Work or unless the Contractor needs to provide such services in order to carry out the Contractor's responsibilities for construction means, methods, techniques, sequences, and procedures. The Contractor shall not be required to provide professional services in violation of applicable law

§ 3.12.10.1 If professional design services or certifications by a design professional related to systems, materials, or equipment are specifically required of the Contractor by the Contract Documents, the Owner and the Architect will specify all performance and design criteria that such services must satisfy. The Contractor shall be entitled to rely upon the adequacy and accuracy of the performance and design criteria provided in the Contract Documents. The Contractor shall cause such services or certifications to be provided by an appropriately licensed design professional, whose signature and seal shall appear on all drawings, calculations, specifications, certifications, Shop Drawings, and other submittals prepared by such professional. Shop Drawings, and other submittals related to the Work, designed or certified by such professional, if prepared by others, shall bear such professional's written approval when submitted to the Architect. The Owner and the Architect shall be entitled to rely upon the adequacy and accuracy of the services, certifications, and approvals performed or provided by such design professionals, provided the Owner and Architect have specified to the Contractor the performance and design criteria that such services must satisfy. Pursuant to this Section 3.12.10, the Architect will review and approve or take other appropriate action on submittals only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents.

§ 3.12.10.2 If the Contract Documents require the Contractor's design professional to certify that the Work has been performed in accordance with the design criteria, the Contractor shall furnish such certifications to the Architect at the

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time and in the form specified by the Architect.

§ 3.13 Use of Site

The Contractor shall confine operations at the site to areas permitted by applicable laws, statutes, ordinances, codes, rules and regulations, lawful orders of public authorities, and the Contract Documents and shall not unreasonably encumber the site with materials or equipment.

§ 3.14 Cutting and Patching

§ 3.14.1 The Contractor shall be responsible for cutting, fitting, or patching required to complete the Work or to make the parts fit together properly. All areas requiring cutting, fitting, or patching shall be restored to the condition existing prior to the cutting, fitting, or patching, unless otherwise required by the Contract Documents.

§ 3.14.2 The Contractor shall not damage or endanger a portion of the Work or fully or partially completed construction of the Owner or Separate Contractors by cutting, patching, or otherwise altering such construction, or by excapation. The Contractor shall not cut or otherwise alter construction by the Owner or a Separate Contractor shall not be unreasonably withheld. The Contractor shall not unreasonably withheld, from the Owner or a Separate Contractor, its consent to cutting or otherwise altering the Work.

§ 3.15 Cleaning Up

§ 3.15.1 The Contractor shall keep the premises and surrounding area free from accumulation of waste materials and rubbish caused by operations under the Contract. At completion of the Work, the Contractor shall remove waste materials, rubbish, the Contractor's tools, construction equipment, machinery, and surplus materials from and about the Project.

§ 3.15.2 If the Contractor fails to clean up as provided in the Contract Documents, the Owner may do so and the Owner shall be entitled to reimbursement from the Contractor.

§ 3.16 Access to Work

The Contractor shall provide the Owner and Architect with access to the Work in preparation and progress wherever located.

§ 3.17 Royalties, Patents and Copyrights

The Contractor shall pay all royalties and license fees. The Contractor shall defend suits or claims for infringement of copyrights and patent rights and shall hold the Contract and Architect harmless from loss on account thereof, but shall not be responsible for defense or loss when a particular design, process, or product of a particular manufacturer or manufacturers is required by the Contract Documents, or where the copyright violations are contained in Drawings, Specifications, or other documents prepared by the Owner or Architect. However, if an infringement of a copyright or patent is discovered by, or made known to, the Contractor, the Contractor shall be responsible for the loss unless the information is promptly furnished to the Architect!

§ 3.18 Indemnification

§ 3.18.1 To the fullest extent permitted by law, the Contractor shall indemnify and hold harmless the Owner, Architect, Architect's consultants and agents and employees of any of them from and against claims, damages, losses, and expenses, including out not limited to attorneys' fees, arising out of or resulting from performance of the Work, provided that such claim, damage, loss, or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself), but only to the extent caused by the negligent acts or on instead of the Contractor, a Subcontractor, anyone directly or indirectly employed by them, or anyone for whose acts they may be liable, regardless of whether or not such claim, damage, loss, or expense is caused in part by a party indemnified hereunder. Such obligation shall not be construed to negate, abridge, or reduce other rights or obligations of indemnity that would otherwise exist as to a party or person described in this Section 3.18.

§ 3.18.2 In claims against any person or entity indemnified under this Section 3.18 by an employee of the Contractor, a Subcontractor, anyone directly or indirectly employed by them, or anyone for whose acts they may be liable, the indemnification obligation under Section 3.18.1 shall not be limited by a limitation on amount or type of damages, compensation, or benefits payable by or for the Contractor or a Subcontractor under workers' compensation acts, disability benefit acts, or other employee benefit acts.

ARTICLE 4 ARCHITECT

§ 4.1 General

§ 4.1.1 The Architect is the person or entity retained by the Owner pursuant to Section 2.3.2 and identified as such in the

§ 4.1.2 Duties, responsibilities, and limitations of authority of the Architect as set forth in the Contract Documents shall not be restricted, modified, or extended without written consent of the Owner, Contractor, and Architect. Consent shall not be unreasonably withheld.

§ 4.2 Administration of the Contract

§ 4.2.1 The Architect will provide administration of the Contract as described in the Contract Decuments and Owner's representative during construction until the date the Architect issues the final Certificate for Payment. Architect will have authority to act on behalf of the Owner only to the extent provided in the Contract D

§ 4.2.2 The Architect will visit the site at intervals appropriate to the stage of construction, or as of eed with the Owner, to become generally familiar with the progress and quality of the portion of the Work pleted, and to determine in general if the Work observed is being performed in a manner indicating that the Work when fully completed, will be in accordance with the Contract Documents. However, the Architect will a required to make exhaustive or continuous on-site inspections to check the quality or quantity of the Work. The Architect will not have control over, charge of, or responsibility for the construction means, methods, techniques, sequences or procedures, or for the safety precautions and programs in connection with the Work, since these are salely the Contractor's rights and responsibilities under the Contract Documents.

§ 4.2.3 On the basis of the site visits, the Architect will keep the Owner reasonably informed about the progress and quality of the portion of the Work completed, and promptly report to the Owner (1) known deviations from the Contract Documents, (2) known deviations from the most recent construction schedule submitted by the Contractor, and (3) defects and deficiencies observed in the Work. The Architect will not be responsible for the Contractor's failure to perform the Work in accordance with the requirements of the Contract Documents. The Architect will not have control over or charge of, and will not be responsible for acts or amissions of, the Contractor, Subcontractors, or their agents or employees, or any other persons or entities performing partions of the Work.

§ 4.2.4 Communications

The Owner and Contractor shall include the Architect in all communications that relate to or affect the Architect's services or professional responsibilities. The Owner shall promptly notify the Architect of the substance of any direct communications between the Owner and the Contractor otherwise relating to the Project. Communications by and with the Architect's consultants shall be through the Architect. Communications by and with Subcontractors and suppliers shall be through the Contractor. Communications by and with Separate Contractors shall be through the Owner. The Contract Documents may specify other communication protocols.

§ 4.2.5 Based on the Architect's evaluations of the Contractor's Applications for Payment, the Architect will review and certify the amounts due the Contractor and will issue Certificates for Payment in such amounts.

§ 4.2.6 The Architect has authority to reject Work that does not conform to the Contract Documents. Whenever the Architect considers it necessary or advisable, the Architect will have authority to require inspection or testing of the Work in accordance with Sections 13.4.2 and 13.4.3, whether or not the Work is fabricated, installed or completed. However, nother this authority of the Architect nor a decision made in good faith either to exercise or not to exercise such authority shall give rise to a duty or responsibility of the Architect to the Contractor, Subcontractors, suppliers, errogents or employees, or other persons or entities performing portions of the Work.

2.7 The Architect will review and approve, or take other appropriate action upon, the Contractor's submittals such as op Drawings, Product Data, and Samples, but only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents. The Architect's action will be taken in accordance with the submittal schedule approved by the Architect or, in the absence of an approved submittal schedule. with reasonable promptness while allowing sufficient time in the Architect's professional judgment to permit adequate review. Review of such submittals is not conducted for the purpose of determining the accuracy and completeness of other details such as dimensions and quantities, or for substantiating instructions for installation or performance of equipment or systems, all of which remain the responsibility of the Contractor as required by the Contract Documents. The Architect's review of the Contractor's submittals shall not relieve the Contractor of the obligations under

- Sections 3.3, 3.5, and 3.12. The Architect's review shall not constitute approval of safety precautions or of any construction means, methods, techniques, sequences, or procedures. The Architect's approval of a specific item shall not indicate approval of an assembly of which the item is a component.
- § 4.2.8 The Architect will prepare Change Orders and Construction Change Directives, and may order minor changes in the Work as provided in Section 7.4. The Architect will investigate and make determinations and recommendations regarding concealed and unknown conditions as provided in Section 3.7.4.
- § 4.2.9 The Architect will conduct inspections to determine the date or dates of Substantial Completion and the date of final completion; issue Certificates of Substantial Completion pursuant to Section 9.8; receive and forward to the Owner, for the Owner's review and records, written warranties and related documents required by the Contract and assembled by the Contractor pursuant to Section 9.10; and issue a final Certificate for Payment pursuant to Section 9.10.
- § 4.2.10 If the Owner and Architect agree, the Architect will provide one or more Project representatives to assist in carrying out the Architect's responsibilities at the site. The Owner shall notify the Contractor of any change in the duties, responsibilities and limitations of authority of the Project representatives.
- § 4.2.11 The Architect will interpret and decide matters concerning performance under, and requirements of, the Contract Documents on written request of either the Owner or Contractor. The Architect's response to such requests will be made in writing within any time limits agreed upon or otherwise with reasonable promptness.
- § 4.2.12 Interpretations and decisions of the Architect will be consistent with the intent of, and reasonably inferable from, the Contract Documents and will be in writing or in the form of drawings. When making such interpretations and decisions, the Architect will endeavor to secure faithful performance by both Owner and Contractor, will not show partiality to either, and will not be liable for results of interpretations or decisions rendered in good faith.
- § 4.2.13 The Architect's decisions on matters relating to aesthetic effect will be final if consistent with the intent expressed in the Contract Documents.
- § 4.2.14 The Architect will review and respond to requests for his remation about the Contract Documents. The Architect's response to such requests will be made in writing within any time limits agreed upon or otherwise with reasonable promptness. If appropriate, the Architect will prepare and issue supplemental Drawings and Specifications in response to the requests for information.

ARTICLE 5 SUBCONTRACTORS

§ 5.1 Definitions

- § 5.1.1 A Subcontractor is a person or entity who has a direct contract with the Contractor to perform a portion of the Work at the site. The term "Subcontractor" is referred to throughout the Contract Documents as if singular in number and means a Subcontractor or an authorized representative of the Subcontractor. The term "Subcontractor" does not include a Separate Contractor or the subcontractors of a Separate Contractor.
- § 5.1.2 A Sub-subcontractor is a person or entity who has a direct or indirect contract with a Subcontractor to perform a portion of the Work at the site. The term "Sub-subcontractor" is referred to throughout the Contract Documents as if singular in number and means a Sub-subcontractor or an authorized representative of the Sub-subcontractor.
- § 5.2 Award of Subcontracts and Other Contracts for Portions of the Work
- § 5.2. Unless otherwise stated in the Contract Documents, the Contractor, as soon as practicable after award of the Contract, shall notify the Owner and Architect of the persons or entities proposed for each principal portion of the Work, including those who are to furnish materials or equipment fabricated to a special design. Within 14 days of receipt of the information, the Architect may notify the Contractor whether the Owner or the Architect (1) has reasonable objection to any such proposed person or entity or (2) requires additional time for review. Failure of the Architect to provide notice within the 14-day period shall constitute notice of no reasonable objection.
- § 5.2.2 The Contractor shall not contract with a proposed person or entity to whom the Owner or Architect has made reasonable and timely objection. The Contractor shall not be required to contract with anyone to whom the Contractor has made reasonable objection.
- § 5.2.3 If the Owner or Architect has reasonable objection to a person or entity proposed by the Contractor, the

Contractor shall propose another to whom the Owner or Architect has no reasonable objection. If the proposed but rejected Subcontractor was reasonably capable of performing the Work, the Contract Sum and Contract Time shall be increased or decreased by the difference, if any, occasioned by such change, and an appropriate Change Order shall be issued before commencement of the substitute Subcontractor's Work. However, no increase in the Contract Sum or Contract Time shall be allowed for such change unless the Contractor has acted promptly and responsively in submitting names as required.

§ 5.2.4 The Contractor shall not substitute a Subcontractor, person, or entity for one previously selected if the Owner Architect makes reasonable objection to such substitution.

§ 5.3 Subcontractual Relations

By appropriate written agreement, the Contractor shall require each Subcontractor, to the extent of the Work to be performed by the Subcontractor, to be bound to the Contractor by terms of the Contract Documents, and to assume toward the Contractor all the obligations and responsibilities, including the responsibility for safety of the Subcontractor's Work that the Contractor, by these Contract Documents, assumes toward the Owner and Architect. Each subcontract agreement shall preserve and protect the rights of the Owner and Architect under the Contract Documents with respect to the Work to be performed by the Subcontractor so that subcontracting thereof will not prejudice such rights, and shall allow to the Subcontractor, unless specifically provided otherwise in the subcontract agreement, the benefit of all rights, remedies, and redress against the Contractor that the Contractor, by the Contract Documents, has against the Owner. Where appropriate, the Contractor shall require each proposed Subcontractor to enter into similar agreements with Sub-subcontractors. The Contractor shall make available to each proposed Subcontractor, prior to the execution of the subcontract agreement, copies of the Contract Documents to which the Subcontractor will be bound, and, upon written request of the Subcontractor, identify to the Subcontractor terms and conditions of the proposed subcontract agreement that may be at variance with the Contract Documents. Subcontractors will similarly make copies of applicable portions of such documents available to their respective proposed Subcontractors.

§ 5.4 Contingent Assignment of Subcontracts

§ 5.4.1 Each subcontract agreement for a portion of the Work is assigned by the Contractor to the Owner, provided that

- assignment is effective only after termination of the Contract by the Owner for cause pursuant to Section 14.2 and only for those subcontract agreements that the Owner accepts by notifying the Subcontractor and Contractor; and
- assignment is subject to the prior fights of the surety, if any, obligated under bond relating to the Contract.

When the Owner accepts the assignment of a subcontract agreement, the Owner assumes the Contractor's rights and obligations under the subcontract.

- § 5.4.2 Upon such assignment, if the Workhas been suspended for more than 30 days, the Subcontractor's compensation shall be equitably adjusted for increases in cost resulting from the suspension.
- § 5.4.3 Upon assignment to the Owner under this Section 5.4, the Owner may further assign the subcontract to a successor contractor or other entity. If the Owner assigns the subcontract to a successor contractor or other entity, the Owner shall nevertheless remain legally responsible for all of the successor contractor's obligations under the subcontract.

ARTICLE 6 CONSTRUCTION BY OWNER OR BY SEPARATE CONTRACTORS

- § 6.1 Owner's Right to Perform Construction and to Award Separate Contracts
- § 6.1. The term "Separate Contractor(s)" shall mean other contractors retained by the Owner under separate agreements. The Owner reserves the right to perform construction or operations related to the Project with the Owner's own forces, and with Separate Contractors retained under Conditions of the Contract substantially similar to those of this Contract, including those provisions of the Conditions of the Contract related to insurance and waiver of subrogation.
- § 6.1.2 When separate contracts are awarded for different portions of the Project or other construction or operations on the site, the term "Contractor" in the Contract Documents in each case shall mean the Contractor who executes each separate Owner-Contractor Agreement.
- § 6.1.3 The Owner shall provide for coordination of the activities of the Owner's own forces and of each Separate

Contractor with the Work of the Contractor, who shall cooperate with them. The Contractor shall participate with any Separate Contractors and the Owner in reviewing their construction schedules. The Contractor shall make any revisions to its construction schedule deemed necessary after a joint review and mutual agreement. The construction schedules shall then constitute the schedules to be used by the Contractor, Separate Contractors, and the Owner until subsequently revised.

§ 6.1.4 Unless otherwise provided in the Contract Documents, when the Owner performs construction or operations related to the Project with the Owner's own forces or with Separate Contractors, the Owner or its Separate Contractors shall have the same obligations and rights that the Contractor has under the Conditions of the Contract, including, without excluding others, those stated in Article 3, this Article 6, and Articles 10, 11, and 12

§ 6.2 Mutual Responsibility

§ 6.2.1 The Contractor shall afford the Owner and Separate Contractors reasonable opportunity for introstorage of their materials and equipment and performance of their activities, and shall connect and coor Contractor's construction and operations with theirs as required by the Contract Documents.

§ 6.2.2 If part of the Contractor's Work depends for proper execution or results upon construction or operations by the Owner or a Separate Contractor, the Contractor shall, prior to proceeding with that portion of the Work, promptly notify the Architect of apparent discrepancies or defects in the construction or operations by the Owner or Separate Contractor that would render it unsuitable for proper execution and results of the Contractor's Work railure of the Contractor to notify the Architect of apparent discrepancies or defects prior to proceeding with the Work shall constitute an acknowledgment that the Owner's or Separate Contractor's completed or partially completed construction is fit and proper to receive the Contractor's Work. The Contractor shall not be responsible for discrepancies or defects in the construction or operations by the Owner or Separate Contractor that are not appar-

§ 6.2.3 The Contractor shall reimburse the Owner for costs the Owner incurs that are payable to a Separate Contractor because of the Contractor's delays, improperly timed activities on detective construction. The Owner shall be responsible to the Contractor for costs the Contractor incurs because of a Separate Contractor's delays, improperly timed activities, damage to the Work or defective construction

§ 6.2.4 The Contractor shall promptly remedy damage that the Contractor wrongfully causes to completed or partially completed construction or to property of the Owner or Separate Contractor as provided in Section 10.2.5.

Il have the same responsibilities for cutting and patching as are § 6.2.5 The Owner and each Separate Contractor st described for the Contractor in Section

§ 6.3 Owner's Right to Clean Up

If a dispute arises among the Contractor, Separate Contractors, and the Owner as to the responsibility under their respective contracts for maintaining the premises and surrounding area free from waste materials and rubbish, the Architect will allocate the cost among those responsible. Owner may clean up and the

ARTICLE 7 CHANGES IN

§ 7.1 General

Work may be accomplished after execution of the Contract, and without invalidating the § 7.1.1 Changes in Change Order, Construction Change Directive or order for a minor change in the Work, subject to the tated in this Article 7 and elsewhere in the Contract Documents. limitations :

A Change Order shall be based upon agreement among the Owner, Contractor, and Architect. A Construction Directive requires agreement by the Owner and Architect and may or may not be agreed to by the Contractor. order for a minor change in the Work may be issued by the Architect alone.

7.1.3 Changes in the Work shall be performed under applicable provisions of the Contract Documents. The Contractor shall proceed promptly with changes in the Work, unless otherwise provided in the Change Order, Construction Change Directive, or order for a minor change in the Work.

§ 7.2 Change Orders

§ 7.2.1 A Change Order is a written instrument prepared by the Architect and signed by the Owner, Contractor, and Architect stating their agreement upon all of the following:

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.1 The change in the Work;

.2 The amount of the adjustment, if any, in the Contract Sum; and

3 The extent of the adjustment, if any, in the Contract Time.

§ 7.3 Construction Change Directives

§ 7.3.1 A Construction Change Directive is a written order prepared by the Architect and signed by the Owner and Architect, directing a change in the Work prior to agreement on adjustment, if any, in the Contract Sum or Contract Time, or both. The Owner may by Construction Change Directive, without invalidating the Contract, order changes in the Work within the general scope of the Contract consisting of additions, deletions, or other revisions, the Contract Sum and Contract Time being adjusted accordingly.

§ 7.3.2 A Construction Change Directive shall be used in the absence of total agreement on the terms of a Change Order

§ 7.3.3 If the Construction Change Directive provides for an adjustment to the Contract Sum, the adjustment shall be based on one of the following methods:

.1 Mutual acceptance of a lump sum properly itemized and supported by sufficient substantiating data to permit evaluation;

.2 Unit prices stated in the Contract Documents or subsequently agreed upon

.3 Cost to be determined in a manner agreed upon by the parties and a mutually acceptable fixed or percentage fee; or

.4 As provided in Section 7.3.4.

§ 7.3.4 If the Contractor does not respond promptly or disagrees with the method for adjustment in the Contract Sum, the Architect shall determine the adjustment on the basis of reasonable expenditures and savings of those performing the Work attributable to the change, including, in case of an increase in the Contract Sum, an amount for overhead and profit as set forth in the Agreement, or if no such amount is set forth in the Agreement, a reasonable amount. In such case, and also under Section 7.3.3.3, the Contractor shall keep and present in such form as the Architect may prescribe, an itemized accounting together with appropriate supporting data. Unless otherwise provided in the Contract Documents, costs for the purposes of this Section 7.3.4 shall be limited to the following:

.1 Costs of labor, including applicable payroll taxes, fringe benefits required by agreement or custom, workers' compensation insurance, and other employee costs approved by the Architect;

.2 Costs of materials, supplies, and equipment including cost of transportation, whether incorporated or consumed;

.3 Rental costs of machinery and equipment, exclusive of hand tools, whether rented from the Contractor or others:

.4 Costs of premiums for all sonds and insurance, permit fees, and sales, use, or similar taxes, directly related to the change, and

.5 Costs of supervision and field office personnel directly attributable to the change.

§ 7.3.5 If the Contractor disagrees with the adjustment in the Contract Time, the Contractor may make a Claim in accordance with applicable provisions of Article 15.

§ 7.3.6 Upon receipt of a Construction Change Directive, the Contractor shall promptly proceed with the change in the Work involved and advise the Architect of the Contractor's agreement or disagreement with the method, if any, provided in the Construction Change Directive for determining the proposed adjustment in the Contract Sum or Contract Time.

§ 13.1 A Construction Change Directive signed by the Contractor indicates the Contractor's agreement therewith, including adjustment in Contract Sum and Contract Time or the method for determining them. Such agreement shall be effective immediately and shall be recorded as a Change Order.

2.3.8 The amount of credit to be allowed by the Contractor to the Owner for a deletion or change that results in a net decrease in the Contract Sum shall be actual net cost as confirmed by the Architect. When both additions and credits covering related Work or substitutions are involved in a change, the allowance for overhead and profit shall be figured on the basis of net increase, if any, with respect to that change.

§ 7.3.9 Pending final determination of the total cost of a Construction Change Directive to the Owner, the Contractor may request payment for Work completed under the Construction Change Directive in Applications for Payment. The

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Architect will make an interim determination for purposes of monthly certification for payment for those costs and certify for payment the amount that the Architect determines, in the Architect's professional judgment, to be reasonably justified. The Architect's interim determination of cost shall adjust the Contract Sum on the same basis as a Change Order, subject to the right of either party to disagree and assert a Claim in accordance with Article 15.

§ 7.3.10 When the Owner and Contractor agree with a determination made by the Architect concerning the adjustments in the Contract Sum and Contract Time, or otherwise reach agreement upon the adjustments, such agreement shall be effective immediately and the Architect will prepare a Change Order. Change Orders may be issued for all or any part of a Construction Change Directive.

§ 7.4 Minor Changes in the Work

The Architect may order minor changes in the Work that are consistent with the intent of the Contract Documents and do not involve an adjustment in the Contract Sum or an extension of the Contract Time. The Architect's order for minor changes shall be in writing. If the Contractor believes that the proposed minor change in the Work will affect the Contract Sum or Contract Time, the Contractor shall notify the Architect and shall not proceed to implement the change in the Work. If the Contractor performs the Work set forth in the Architect's order for a minor change without prior notice to the Architect that such change will affect the Contract Sum or Contract Time, the Contractor waives any adjustment to the Contract Sum or extension of the Contract Time.

ARTICLE 8 TIME

§ 8.1 Definitions

- § 8.1.1 Unless otherwise provided, Contract Time is the period of time, including authorized adjustments, allotted in the Contract Documents for Substantial Completion of the Work.
- § 8.1.2 The date of commencement of the Work is the date established in the Agreement
- § 8.1.3 The date of Substantial Completion is the date certified by the Architect in accordance with Section 9.8.
- § 8.1.4 The term "day" as used in the Contract Documents shall mean calendar day unless otherwise specifically defined.

§ 8.2 Progress and Completion

- § 8.2.1 Time limits stated in the Contract Documents are of the essence of the Contract. By executing the Agreement, the Contractor confirms that the Contract Time is a reasonable period for performing the Work.
- § 8.2.2 The Contractor shall not knowingly except by agreement or instruction of the Owner in writing, commence the Work prior to the effective date of insurance required to be furnished by the Contractor and Owner.
- § 8.2.3 The Contractor shall proceed expeditiously with adequate forces and shall achieve Substantial Completion within the Contract Time.

§ 8.3 Delays and Extensions of Time

- § 8.3.1 If the Contractor is delayed at any time in the commencement or progress of the Work by (1) an act or neglect of the Owner or Architect of an employee of either, or of a Separate Contractor; (2) by changes ordered in the Work; (3) by labor disputes, fire unusual delay in deliveries, unavoidable casualties, adverse weather conditions documented in accordance with Section 15.1.6.2, or other causes beyond the Contractor's control; (4) by delay authorized by the Owner pending mediation and binding dispute resolution; or (5) by other causes that the Contractor asserts, and the Architect determines, justify delay, then the Contract Time shall be extended for such reasonable time as the Architect may determine.
- § 3.2 Claims relating to time shall be made in accordance with applicable provisions of Article 15.
- § 8.3.3 This Section 8.3 does not preclude recovery of damages for delay by either party under other provisions of the Contract Documents.

ARTICLE 9 PAYMENTS AND COMPLETION

§ 9.1 Contract Sum

§ 9.1.1 The Contract Sum is stated in the Agreement and, including authorized adjustments, is the total amount payable

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by the Owner to the Contractor for performance of the Work under the Contract Documents.

§ 9.1.2 If unit prices are stated in the Contract Documents or subsequently agreed upon, and if quantities originally contemplated are materially changed so that application of such unit prices to the actual quantities causes substantial inequity to the Owner or Contractor, the applicable unit prices shall be equitably adjusted.

§ 9.2 Schedule of Values

Where the Contract is based on a stipulated sum or Guaranteed Maximum Price, the Contractor shall submit a schedule of values to the Architect before the first Application for Payment, allocating the entire Contract Sum to the various portions of the Work. The schedule of values shall be prepared in the form, and supported by the data to substantiate its accuracy, required by the Architect. This schedule, unless objected to by the Architect, shall be used as a basis for reviewing the Contractor's Applications for Payment. Any changes to the schedule of values shall be submitted to the Architect and supported by such data to substantiate its accuracy as the Architect may require, and unless objected to by the Architect, shall be used as a basis for reviewing the Contractor's subsequent Applications for Payment.

§ 9.3 Applications for Payment

§ 9.3.1 At least ten days before the date established for each progress payment, the Contractor shall submit to the Architect an itemized Application for Payment prepared in accordance with the schedule of values, if required under Section 9.2, for completed portions of the Work. The application shall be notarized, if required, and supported by all data substantiating the Contractor's right to payment that the Owner or Architect requires such as copies of requisitions, and releases and waivers of liens from Subcontractors and suppliers, and shall reflect retaining if provided for in the Contract Documents.

§ 9.3.1.1 As provided in Section 7.3.9, such applications may include requests to payment on account of changes in the Work that have been properly authorized by Construction Change Directives, or by interim determinations of the Architect, but not yet included in Change Orders.

§ 9.3.1.2 Applications for Payment shall not include requests for payment for portions of the Work for which the Contractor does not intend to pay a Subcontractor or supplier, puless such Work has been performed by others whom the Contractor intends to pay.

§ 9.3.2 Unless otherwise provided in the Contract Documents, payments shall be made on account of materials and equipment delivered and suitably stored at the site for subsequent incorporation in the Work. If approved in advance by the Owner, payment may similarly be made for materials and equipment suitably stored off the site at a location agreed upon in writing. Payment for materials and equipment stored on or off the site shall be conditioned upon compliance by the Contractor with procedures satisfactory to the Owner to establish the Owner's title to such materials and equipment or otherwise protect the Owner's interest, and shall include the costs of applicable insurance, storage, and transportation to the site, for such materials and equipment stored off the site.

§ 9.3.3 The Contractor warrants that title to all Work covered by an Application for Payment will pass to the Owner no later than the time of payment. The Contractor further warrants that upon submittal of an Application for Payment all Work for which Certificates for Payment have been previously issued and payments received from the Owner shall, to the best of the Contractor's knowledge, information, and belief, be free and clear of liens, claims, security interests, or encumbrances in favor of the Contractor, Subcontractors, suppliers, or other persons or entities that provided labor, materials, and quipment relating to the Work.

§ 9.4 Dertificates for Payment

5 4 4. The Architect will, within seven days after receipt of the Contractor's Application for Payment, either (1) issue to the Owner a Certificate for Payment in the full amount of the Application for Payment, with a copy to the Contractor; or issue to the Owner a Certificate for Payment for such amount as the Architect determines is properly due, and notify the Contractor and Owner of the Architect's reasons for withholding certification in part as provided in Section 9.5.1; or withhold certification of the entire Application for Payment, and notify the Contractor and Owner of the Architect's reason for withholding certification in whole as provided in Section 9.5.1.

§ 9.4.2 The issuance of a Certificate for Payment will constitute a representation by the Architect to the Owner, based on the Architect's evaluation of the Work and the data in the Application for Payment, that, to the best of the Architect's knowledge, information, and belief, the Work has progressed to the point indicated, the quality of the Work is in accordance with the Contract Documents, and that the Contractor is entitled to payment in the amount certified. The

foregoing representations are subject to an evaluation of the Work for conformance with the Contract Documents upon Substantial Completion, to results of subsequent tests and inspections, to correction of minor deviations from the Contract Documents prior to completion, and to specific qualifications expressed by the Architect. However, the issuance of a Certificate for Payment will not be a representation that the Architect has (1) made exhaustive or continuous on-site inspections to check the quality or quantity of the Work; (2) reviewed construction means, methods, techniques, sequences, or procedures; (3) reviewed copies of requisitions received from Subcontractors and suppliers and other data requested by the Owner to substantiate the Contractor's right to payment; or (4) made examination to ascertain how or for what purpose the Contractor has used money previously paid on account of the Contract Sum.

§ 9.5 Decisions to Withhold Certification

§ 9.5.1 The Architect may withhold a Certificate for Payment in whole or in part, to the extent reasonably necessary to protect the Owner, if in the Architect's opinion the representations to the Owner required by Section 9.4.2 cannot be made. If the Architect is unable to certify payment in the amount of the Application, the Architect will notify the Contractor and Owner as provided in Section 9.4.1. If the Contractor and Architect cannot agree on a revised amount, the Architect will promptly issue a Certificate for Payment for the amount for which the Architect sable to make such representations to the Owner. The Architect may also withhold a Certificate for Payment or, because of subsequently discovered evidence, may nullify the whole or a part of a Certificate for Payment previously assisted, to such extent as may be necessary in the Architect's opinion to protect the Owner from loss for which the Contractor is responsible, including loss resulting from acts and omissions described in Section 3.3.2, because of

.1 defective Work not remedied;

.2 third party claims filed or reasonable evidence indicating probable filing of such claims, unless security acceptable to the Owner is provided by the Contractor.

.3 failure of the Contractor to make payments properly to Subcontractors or suppliers for labor, materials or equipment;

.4 reasonable evidence that the Work cannot be completed for the unpaid balance of the Contract Sum;

5 damage to the Owner or a Separate Contractor;

reasonable evidence that the Work will not be completed within the Contract Time, and that the unpaid balance would not be adequate to cover actual or liquidated damages for the anticipated delay; or

.7 repeated failure to carry out the Work in accordance with the Contract Documents.

§ 9.5.2 When either party disputes the Architect's decision regarding a Certificate for Payment under Section 9.5.1, in whole or in part, that party may submit a Claim in accordance with Article 15.

§ 9.5.3 When the reasons for withholding certification are removed, certification will be made for amounts previously withheld.

§ 9.5.4 If the Architect withholds confication for payment under Section 9.5.1.3, the Owner may, at its sole option, issue joint checks to the Contractor and to any Subcontractor or supplier to whom the Contractor failed to make payment for Work properly performed or material or equipment suitably delivered. If the Owner makes payments by joint check, the Owner shall notify the Architect and the Contractor shall reflect such payment on its next Application for Payment.

§ 9.6 Progress Payments

§ 9.6.1 After the Architect has issued a Certificate for Payment, the Owner shall make payment in the manner and within the time provided in the Contract Documents, and shall so notify the Architect.

§ 9.6.2 The Contractor shall pay each Subcontractor, no later than seven days after receipt of payment from the Owner, the amount to which the Subcontractor is entitled, reflecting percentages actually retained from payments to the Contractor on account of the Subcontractor's portion of the Work. The Contractor shall, by appropriate agreement with subcontractor, require each Subcontractor to make payments to Sub-subcontractors in a similar manner.

§ 9.6.3 The Architect will, on request, furnish to a Subcontractor, if practicable, information regarding percentages of completion or amounts applied for by the Contractor and action taken thereon by the Architect and Owner on account of portions of the Work done by such Subcontractor.

§ 9.6.4 The Owner has the right to request written evidence from the Contractor that the Contractor has properly paid Subcontractors and suppliers amounts paid by the Owner to the Contractor for subcontracted Work. If the Contractor fails to furnish such evidence within seven days, the Owner shall have the right to contact Subcontractors and suppliers

to ascertain whether they have been properly paid. Neither the Owner nor Architect shall have an obligation to pay, or to see to the payment of money to, a Subcontractor or supplier, except as may otherwise be required by law.

§ 9.6.5 The Contractor's payments to suppliers shall be treated in a manner similar to that provided in Sections 9.6.2, 9.6.3 and 9.6.4.

§ 9.6.6 A Certificate for Payment, a progress payment, or partial or entire use or occupancy of the Project by the Owner shall not constitute acceptance of Work not in accordance with the Contract Documents.

§ 9.6.7 Unless the Contractor provides the Owner with a payment bond in the full penal sum of the Contract Sumpayments received by the Contractor for Work properly performed by Subcontractors or provided by suppliers that be held by the Contractor for those Subcontractors or suppliers who performed Work or furnished materials, or both cinde contract with the Contractor for which payment was made by the Owner. Nothing contained herein shall require money to be placed in a separate account and not commingled with money of the Contractor, create any fiduciary liability or tort liability on the part of the Contractor for breach of trust, or entitle any person or entity to an award of purnished damages against the Contractor for breach of the requirements of this provision.

§ 9.6.8 Provided the Owner has fulfilled its payment obligations under the Contract Documents, the Contractor shall defend and indemnify the Owner from all loss, liability, damage or expense, including reasonable attorney's fees and litigation expenses, arising out of any lien claim or other claim for payment by any Subcontractor or supplier of any tier. Upon receipt of notice of a lien claim or other claim for payment, the Owner shall notify the Contractor. If approved by the applicable court, when required, the Contractor may substitute a surety bond for the property against which the lien or other claim for payment has been asserted.

§ 9.7 Failure of Payment

If the Architect does not issue a Certificate for Payment, through no fault of the Contractor, within seven days after receipt of the Contractor's Application for Payment, or if the Owner does not pay the Contractor within seven days after the date established in the Contract Documents, the amount certified by the Architect or awarded by binding dispute resolution, then the Contractor may, upon seven additional days notice to the Owner and Architect, stop the Work until payment of the amount owing has been received. The Contract Time shall be extended appropriately and the Contract Sum shall be increased by the amount of the Contractor's reasonable costs of shutdown, delay and start-up, plus interest as provided for in the Contract Documents.

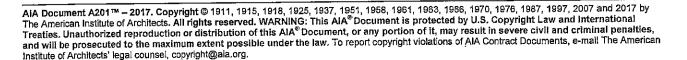
§ 9.8 Substantial Completion

§ 9.8.1 Substantial Completion is the stage in the progress of the Work when the Work or designated portion thereof is sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work for its intended use.

§ 9.8.2 When the Contractor considers that the Work, or a portion thereof which the Owner agrees to accept separately, is substantially complete the Contractor shall prepare and submit to the Architect a comprehensive list of items to be completed or corrected prior to final payment. Failure to include an item on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents.

§ 9.8.3 Upon accept of the Contractor's list, the Architect will make an inspection to determine whether the Work or designated portion thereof is substantially complete. If the Architect's inspection discloses any item, whether or not included on the Contractor's list, which is not sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work or designated portion thereof for its intended use, the Contractor shall, before issuance of the Certificate of Substantial Completion, complete or correct such item upon notification by the Architect. In such case, the Contractor shall then submit a request for another inspection by the Architect to determine Substantial Completion.

\$9.8.4 When the Work or designated portion thereof is substantially complete, the Architect will prepare a Certificate of Substantial Completion that shall establish the date of Substantial Completion; establish responsibilities of the Owner and Contractor for security, maintenance, heat, utilities, damage to the Work and insurance; and fix the time within which the Contractor shall finish all items on the list accompanying the Certificate. Warranties required by the Contract Documents shall commence on the date of Substantial Completion of the Work or designated portion thereof unless otherwise provided in the Certificate of Substantial Completion.



§ 9.8.5 The Certificate of Substantial Completion shall be submitted to the Owner and Contractor for their written acceptance of responsibilities assigned to them in the Certificate. Upon such acceptance, and consent of surety if any, the Owner shall make payment of retainage applying to the Work or designated portion thereof. Such payment shall be adjusted for Work that is incomplete or not in accordance with the requirements of the Contract Documents.

§ 9.9 Partial Occupancy or Use

§ 9.9.1 The Owner may occupy or use any completed or partially completed portion of the Work at any stage when such portion is designated by separate agreement with the Contractor, provided such occupancy or use is consented to by t insurer and authorized by public authorities having jurisdiction over the Project. Such partial occupancy or use may commence whether or not the portion is substantially complete, provided the Owner and Contractor have accepted writing the responsibilities assigned to each of them for payments, retainage, if any, security, maintenance, he utilities, damage to the Work and insurance, and have agreed in writing concerning the period for correction of Work and commencement of warranties required by the Contract Documents. When the Contractor consider substantially complete, the Contractor shall prepare and submit a list to the Architect as provided under Section Consent of the Contractor to partial occupancy or use shall not be unreasonably withheld. The stage the Work shall be determined by written agreement between the Owner and Contractor or if no are ment is reached. by decision of the Architect.

§ 9.9.2 Immediately prior to such partial occupancy or use, the Owner, Contractor, and Architect shall jointly inspect the area to be occupied or portion of the Work to be used in order to determine and record the ondition of the Work.

§ 9.9.3 Unless otherwise agreed upon, partial occupancy or use of a portion or portions of the Work shall not constitute acceptance of Work not complying with the requirements of the Contract Documents.

§ 9.10 Final Completion and Final Payment

§ 9.10.1 Upon receipt of the Contractor's notice that the Work is read for final inspection and acceptance and upon receipt of a final Application for Payment, the Architect will promptly make such inspection. When the Architect finds the Work acceptable under the Contract Documents and the Contract fully performed, the Architect will promptly issue a final Certificate for Payment stating that to the best of the Architect's knowledge, information and belief, and on the basis of the Architect's on-site visits and inspections, the Work has been completed in accordance with the Contract Documents and that the entire balance found to be due the Contractor and noted in the final Certificate is due and payable. The Architect's final Certificate for Payment will constitute a further representation that conditions listed in Section 9.10.2 as precedent to the Contractor's being entitled to final payment have been fulfilled.

§ 9.10.2 Neither final payment nor any remaining retained percentage shall become due until the Contractor submits to the Architect (1) an affidavit that payrolls, bills for materials and equipment, and other indebtedness connected with the Work for which the Owner or the Owner's property might be responsible or encumbered (less amounts withheld by Owner) have been paid or otherwise afford, (2) a certificate evidencing that insurance required by the Contract Documents to remain in force after final payment is currently in effect, (3) a written statement that the Contractor knows of no reason that the insurance will not be renewable to cover the period required by the Contract Documents, (4) consent of surety, if any, to final payment, (5) documentation of any special warranties, such as manufacturers' warranties or specific subcontractor warranties, and (6) if required by the Owner, other data establishing payment or satisfaction of obligations, such as receipts and releases and waivers of liens, claims, security interests, or encumbrances Contract to the extent and in such form as may be designated by the Owner. If a Subcontractor refuses arising out of the to furnished release of waiver required by the Owner, the Contractor may furnish a bond satisfactory to the Owner to indemnify the Owner against such lien, claim, security interest, or encumbrance. If a lien, claim, security interest, or encumbrance remains unsatisfied after payments are made, the Contractor shall refund to the Owner all money that the mer may be compelled to pay in discharging the lien, claim, security interest, or encumbrance, including all costs and easonable attorneys; fees.

10.3 If, after Substantial Completion of the Work, final completion thereof is materially delayed through no fault of The Contractor or by issuance of Change Orders affecting final completion, and the Architect so confirms, the Owner shall, upon application by the Contractor and certification by the Architect, and without terminating the Contract, make payment of the balance due for that portion of the Work fully completed, corrected, and accepted. If the remaining balance for Work not fully completed or corrected is less than retainage stipulated in the Contract Documents, and if bonds have been furnished, the written consent of the surety to payment of the balance due for that portion of the Work fully completed and accepted shall be submitted by the Contractor to the Architect prior to certification of such payment. Such payment shall be made under terms and conditions governing final payment, except that it shall not

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constitute a waiver of Claims.

§ 9.10.4 The making of final payment shall constitute a waiver of Claims by the Owner except those arising from

- 1 liens, Claims, security interests, or encumbrances arising out of the Contract and unsettled;
- .2 failure of the Work to comply with the requirements of the Contract Documents;

.3 terms of special warranties required by the Contract Documents; or

.4 audits performed by the Owner, if permitted by the Contract Documents, after final payment.

§ 9.10.5 Acceptance of final payment by the Contractor, a Subcontractor, or a supplier, shall constitute a waiver of claims by that payee except those previously made in writing and identified by that payee as unsettled at the time of final Application for Payment.

ARTICLE 10 PROTECTION OF PERSONS AND PROPERTY

§ 10.1 Safety Precautions and Programs

The Contractor shall be responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the performance of the Contract.

§ 10.2 Safety of Persons and Property

§ 10.2.1 The Contractor shall take reasonable precautions for safety of, and shall provide reasonable protection to prevent damage, injury, or loss to

1 employees on the Work and other persons who may be affected thereb

.2 the Work and materials and equipment to be incorporated therein, whether in storage on or off the site, under care, custody, or control of the Contractor, a Subcontractor, or a Sub-subcontractor; and

other property at the site or adjacent thereto, such as trees, shrubs, lawns, walks, pavements, roadways, structures, and utilities not designated for removal, relocation, or replacement in the course of construction.

§ 10.2.2 The Contractor shall comply with, and give notices required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities, bearing on safety of persons or property or their protection from damage, injury, or loss.

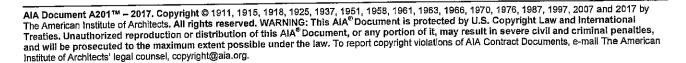
§ 10.2.3 The Contractor shall implement, erect, and maintain, as required by existing conditions and performance of the Contract, reasonable safeguards for safety and protection, including posting danger signs and other warnings against hazards; promulgating safety regulations; and not having the owners and users of adjacent sites and utilities of the safeguards.

§ 10.2.4 When use or storage of explosives or other hazardous materials or equipment, or unusual methods are necessary for execution of the Work, the Contractor shall exercise utmost care and carry on such activities under supervision of properly qualified personnel.

§ 10.2.5 The Contractor shall promptly remedy damage and loss (other than damage or loss insured under property insurance required by the Contract Documents) to property referred to in Sections 10.2.1.2 and 10.2.1.3 caused in whole or in part by the Contractor, a Sub-contractor, a Sub-subcontractor, or anyone directly or indirectly employed by any of them, or by anyone for whose acts they may be liable and for which the Contractor is responsible under Sections 10.2.1.3. The Contractor may make a Claim for the cost to remedy the damage or loss to the extent such damage or loss is attributable to acts or omissions of the Owner or Architect or anyone directly or indirectly employed by either of them, or by anyone for whose acts either of them may be liable, and not attributable to the fault or negligence of the Contractor. The foregoing obligations of the Contractor are in addition to the Contractor's obligations under Section 3.18.

§ 10.2.6 The Contractor shall designate a responsible member of the Contractor's organization at the site whose duty shall be the prevention of accidents. This person shall be the Contractor's superintendent unless otherwise designated by the Contractor in writing to the Owner and Architect.

§ 10.2.7 The Contractor shall not permit any part of the construction or site to be loaded so as to cause damage or create an unsafe condition.



§ 10.2.8 Injury or Damage to Person or Property

If either party suffers injury or damage to person or property because of an act or omission of the other party, or of others for whose acts such party is legally responsible, notice of the injury or damage, whether or not insured, shall be given to the other party within a reasonable time not exceeding 21 days after discovery. The notice shall provide sufficient detail to enable the other party to investigate the matter.

§ 10.3 Hazardous Materials and Substances

§ 10.3.1 The Contractor is responsible for compliance with any requirements included in the Contract Documents regarding hazardous materials or substances. If the Contractor encounters a hazardous material or substance not addressed in the Contract Documents and if reasonable precautions will be inadequate to prevent foreseeable bodily injury or death to persons resulting from a material or substance, including but not limited to asbestos or polychotrinate biphenyl (PCB), encountered on the site by the Contractor, the Contractor shall, upon recognizing the condition immediately stop Work in the affected area and notify the Owner and Architect of the condition.

§ 10.3.2 Upon receipt of the Contractor's notice, the Owner shall obtain the services of a licensed aboratory to verify the presence or absence of the material or substance reported by the Contractor and, in the event such material or substance is found to be present, to cause it to be rendered harmless. Unless otherwise required by the Contract Documents, the Owner shall furnish in writing to the Contractor and Architect the names and qualifications of persons or entities who are to perform tests verifying the presence or absence of the material or substance or who are to perform the task of removal or safe containment of the material or substance. The Contractor and the Architect will promptly reply to the Owner in writing stating whether or not either has reasonable objection to the persons or entities proposed by the Owner. If either the Contractor or Architect has an objection to a person or entity proposed by the Owner, the Owner shall propose another to whom the Contractor and the Architect have no reasonable objection. When the material or substance has been rendered harmless, Work in the affected area shall resume upon written agreement of the Owner and Contractor. By Change Order, the Contract Time shall be extended appropriately and the Contract Sum shall be increased by the amount of the Contractor's reasonable additional costs of shutdown, delay, and start-up.

§ 10.3.3 To the fullest extent permitted by law, the Owner shall indeputity and hold harmless the Contractor, Subcontractors, Architect, Architect's consultants, and agents and employees of any of them from and against claims, damages, losses, and expenses, including but not limited to attorneys' fees, arising out of or resulting from performance of the Work in the affected area if in fact the material or substance presents the risk of bodily injury or death as described in Section 10.3.1 and has not been rendered harmless, provided that such claim, damage, loss, or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself), except to the extent that such damage, loss, or expense is due to the fault or negligence of the party seeking indemnity.

§ 10.3.4 The Owner shall not be responsible under this Section 10.3 for hazardous materials or substances the Contractor brings to the site unless such materials or substances are required by the Contract Documents. The Owner shall be responsible for hazardous materials or substances required by the Contract Documents, except to the extent of the Contractor's fault or negligence in the use and handling of such materials or substances.

§ 10.3.5 The Contractor shall reimburse the Owner for the cost and expense the Owner incurs (1) for remediation of hazardous materials or substances the Contractor brings to the site and negligently handles, or (2) where the Contractor fails to perform its obligations under Section 10.3.1, except to the extent that the cost and expense are due to the Owner's fault on negligence.

§ 10.3.6 If, without negligence on the part of the Contractor, the Contractor is held liable by a government agency for the cost of remediation of a hazardous material or substance solely by reason of performing Work as required by the Contract Documents, the Owner shall reimburse the Contractor for all cost and expense thereby incurred.

§ 10.4 Emergencies

In an emergency affecting safety of persons or property, the Contractor shall act, at the Contractor's discretion, to prevent threatened damage, injury, or loss. Additional compensation or extension of time claimed by the Contractor on account of an emergency shall be determined as provided in Article 15 and Article 7.

ARTICLE 11 INSURANCE AND BONDS

§ 11.1 Contractor's Insurance and Bonds

§ 11.1.1 The Contractor shall purchase and maintain insurance of the types and limits of liability, containing the

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endorsements, and subject to the terms and conditions, as described in the Agreement or elsewhere in the Contract Documents. The Contractor shall purchase and maintain the required insurance from an insurance company or insurance companies lawfully authorized to issue insurance in the jurisdiction where the Project is located. The Owner, Architect, and Architect's consultants shall be named as additional insureds under the Contractor's commercial general liability policy or as otherwise described in the Contract Documents.

§ 11.1.2 The Contractor shall provide surety bonds of the types, for such penal sums, and subject to such terms and conditions as required by the Contract Documents. The Contractor shall purchase and maintain the required bonds from a company or companies lawfully authorized to issue surety bonds in the jurisdiction where the Project is located.

§ 11.1.3 Upon the request of any person or entity appearing to be a potential beneficiary of bonds covering payment of obligations arising under the Contract, the Contractor shall promptly furnish a copy of the bonds or shall authorize a copy to be furnished.

§ 11.1.4 Notice of Cancellation or Expiration of Contractor's Required Insurance. Within three (3) business days of the date the Contractor becomes aware of an impending or actual cancellation or expiration of any insurance required by the Contract Documents, the Contractor shall provide notice to the Owner of such impending or actual cancellation or expiration. Upon receipt of notice from the Contractor, the Owner shall, unless the lapse in coverage arises from an act or omission of the Owner, have the right to stop the Work until the lapse in coverage has been sured by the procurement of replacement coverage by the Contractor. The furnishing of notice by the Contractor shall not relieve the Contractor of any contractual obligation to provide any required coverage.

§ 11.2 Owner's Insurance

§ 11.2.1 The Owner shall purchase and maintain insurance of the types and limits of liability, containing the endorsements, and subject to the terms and conditions, as described in the Agreement or elsewhere in the Contract Documents. The Owner shall purchase and maintain the required insurance from an insurance company or insurance companies lawfully authorized to issue insurance in the jurisdiction where the Project is located.

§ 11.2.2 Failure to Purchase Required Property Insurance. If the Owner fails to purchase and maintain the required property insurance, with all of the coverages and in the amounts described in the Agreement or elsewhere in the Contract Documents, the Owner shall inform the Contractor in writing prior to commencement of the Work. Upon receipt of notice from the Owner, the Contractor may delay commencement of the Work and may obtain insurance that will protect the interests of the Contractor, Subcontractors, and Sub-Subcontractors in the Work. When the failure to provide coverage has been cured or resolved, the Contract Sum and Contract Time shall be equitably adjusted. In the event the Owner fails to procure coverage the Owner waives all rights against the Contractor, Subcontractors, and Subsubcontractors to the extent the loss to the Owner would have been covered by the insurance to have been procured by the Owner. The cost of the insurance shall be charged to the Owner by a Change Order. If the Owner does not provide written notice, and the Contractor is damaged by the failure or neglect of the Owner to purchase or maintain the required insurance, the Owner shall reinburse the Contractor for all reasonable costs and damages attributable thereto.

§ 11.2.3 Notice of Cancellation or expiration of Owner's Required Property Insurance. Within three (3) business days of the date the Owner becomes aware of an impending or actual cancellation or expiration of any property insurance required by the Contract Documents, the Owner shall provide notice to the Contractor of such impending or actual cancellation or expiration. Unless the lapse in coverage arises from an act or omission of the Contractor: (1) the Contractor, upon receipt of notice from the Owner, shall have the right to stop the Work until the lapse in coverage has been cured by the procurement of replacement coverage by either the Owner or the Contractor; (2) the Contract Time and Contract Sum shall be equitably adjusted; and (3) the Owner waives all rights against the Contractor, Subcontractors, and Subsubcontractors to the extent any loss to the Owner would have been covered by the insurance had it not expired or been cancelled. If the Contractor purchases replacement coverage, the cost of the insurance shall be charged to the Owner by an appropriate Change Order. The furnishing of notice by the Owner shall not relieve the Owner of any contractual obligation to provide required insurance.

§ 11.3 Waivers of Subrogation

§ 11.3.1 The Owner and Contractor waive all rights against (1) each other and any of their subcontractors, subsubcontractors, agents, and employees, each of the other; (2) the Architect and Architect's consultants; and (3) Separate Contractors, if any, and any of their subcontractors, sub-subcontractors, agents, and employees, for damages caused by fire, or other causes of loss, to the extent those losses are covered by property insurance required by the Agreement or other property insurance applicable to the Project, except such rights as they have to proceeds of such insurance. The

Owner or Contractor, as appropriate, shall require similar written waivers in favor of the individuals and entities identified above from the Architect, Architect's consultants, Separate Contractors, subcontractors, and subsubcontractors. The policies of insurance purchased and maintained by each person or entity agreeing to waive claims pursuant to this section 11.3.1 shall not prohibit this waiver of subrogation. This waiver of subrogation shall be effective as to a person or entity (1) even though that person or entity would otherwise have a duty of indemnification, contractual or otherwise, (2) even though that person or entity did not pay the insurance premium directly or indirectly, or (3) whether or not the person or entity had an insurable interest in the damaged property.

§ 11.3.2 If during the Project construction period the Owner insures properties, real or personal or both, at or adjacent to the site by property insurance under policies separate from those insuring the Project, or if after final payment property insurance is to be provided on the completed Project through a policy or policies other than those insuring the Project during the construction period, to the extent permissible by such policies, the Owner waives all rights in accordance with the terms of Section 11.3.1 for damages caused by fire or other causes of loss covered by this separate property insurance.

§ 11.4 Loss of Use, Business Interruption, and Delay in Completion Insurance

The Owner, at the Owner's option, may purchase and maintain insurance that will protect the Owner against loss of use of the Owner's property, or the inability to conduct normal operations, due to fire or other causes of loss. The Owner waives all rights of action against the Contractor and Architect for loss of use of the Owner's property, due to fire or other hazards however caused.

§11.5 Adjustment and Settlement of Insured Loss

§ 11.5.1 A loss insured under the property insurance required by the Agreement shall be adjusted by the Owner as fiduciary and made payable to the Owner as fiduciary for the insureds, as their interests may appear, subject to requirements of any applicable mortgagee clause and of Section 11.5.2 The Owner shall pay the Architect and Contractor their just shares of insurance proceeds received by the Owner, and by appropriate agreements the Architect and Contractor shall make payments to their consultants and Subcontractors in similar manner.

§ 11.5.2 Prior to settlement of an insured loss, the Owner shall notify the Contractor of the terms of the proposed settlement as well as the proposed allocation of the insurance proceeds. The Contractor shall have 14 days from receipt of notice to object to the proposed settlement or allocation of the proceeds. If the Contractor does not object, the Owner shall settle the loss and the Contractor shall be bound by the settlement and allocation. Upon receipt, the Owner shall deposit the insurance proceeds in a separate account and make the appropriate distributions. Thereafter, if no other agreement is made or the Owner does not terminate the Contract for convenience, the Owner and Contractor shall execute a Change Order for reconstruction of the damaged or destroyed Work in the amount allocated for that purpose. If the Contractor timely objects to either the terms of the proposed settlement or the allocation of the proceeds, the Owner may proceed to settle the insured loss, and any dispute between the Owner and Contractor arising out of the settlement or allocation of the proceeds shall be resolved pursuant to Article 15. Pending resolution of any dispute, the Owner may issue a Construction Change Directive for the reconstruction of the damaged or destroyed Work.

ARTICLE 12 UNGOVERING AND CORRECTION OF WORK

§ 12.1 Uncovering of Work

§ 12.1.1 If a portion of the Work is covered contrary to the Architect's request or to requirements specifically expressed in the Contrary Documents, it must if requested in writing by the Architect, be uncovered for the Architect's examination and be replaced at the Contractor's expense without change in the Contract Time.

§ 12.12 If a porton of the Work has been covered that the Architect has not specifically requested to examine prior to its being covered, the Architect may request to see such Work and it shall be uncovered by the Contractor. If such Work is in accordance with the Contract Documents, the Contractor shall be entitled to an equitable adjustment to the Contract Sun and Contract Time as may be appropriate. If such Work is not in accordance with the Contract Documents, the costs of uncovering the Work, and the cost of correction, shall be at the Contractor's expense.

§ 12.2 Correction of Work

§ 12.2.1 Before Substantial Completion

The Contractor shall promptly correct Work rejected by the Architect or failing to conform to the requirements of the Contract Documents, discovered before Substantial Completion and whether or not fabricated, installed or completed. Costs of correcting such rejected Work, including additional testing and inspections, the cost of uncovering and replacement, and compensation for the Architect's services and expenses made necessary thereby, shall be at the

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§ 12.2.2 After Substantial Completion

§ 12.2.2.1 In addition to the Contractor's obligations under Section 3.5, if, within one year after the date of Substantial Completion of the Work or designated portion thereof or after the date for commencement of warranties established under Section 9.9.1, or by terms of any applicable special warranty required by the Contract Documents, any of the Work is found to be not in accordance with the requirements of the Contract Documents, the Contractor shall correct it promptly after receipt of notice from the Owner to do so, unless the Owner has previously given the Contractor a written acceptance of such condition. The Owner shall give such notice promptly after discovery of the condition. During the one-year period for correction of Work, if the Owner fails to notify the Contractor and give the Contractor. opportunity to make the correction, the Owner waives the rights to require correction by the Contractor and to claim for breach of warranty. If the Contractor fails to correct nonconforming Work within a reasonable time de period after receipt of notice from the Owner or Architect, the Owner may correct it in accordance with

§ 12.2.2.2 The one-year period for correction of Work shall be extended with respect to portions of after Substantial Completion by the period of time between Substantial Completion and the actual pletion of that portion of the Work.

§ 12.2.2.3 The one-year period for correction of Work shall not be extended by correct performed by the Contractor pursuant to this Section 12.2.

§ 12.2.3 The Contractor shall remove from the site portions of the Work that a in accordance with the requirements 3 12.2.3 The Contractor shall remove from the site portions of the Work that are not in accordance to of the Contract Documents and are neither corrected by the Contractor nor accorded by the Owner.

§ 12.2.4 The Contractor shall bear the cost of correcting destroyed or damaged construction of the Owner or Separate Contractors, whether completed or partially completed, caused by the Contractor's correction or removal of Work that is not in accordance with the requirements of the Contract Documen

§ 12.2.5 Nothing contained in this Section 12.2 shall be construed to establish a period of limitation with respect to other obligations the Contractor has under the Contract Documents. Establishment of the one-year period for correction of Work as described in Section 12.2.2 relates only to the specific obligation of the Contractor to correct the Work, and has no relationship to the time within which the obligation to comply with the Contract Documents may be sought to be be commenced to establish the Contractor's liability with enforced, nor to the time within which proceedings ma ecrically to correct the Work. respect to the Contractor's obligations other than's

§ 12.3 Acceptance of Nonconforming Work

If the Owner prefers to accept Work that is not in accordance with the requirements of the Contract Documents, the Owner may do so instead of regular to its emoval and correction, in which case the Contract Sum will be reduced as appropriate and equitable. Such adjustment shall be effected whether or not final payment has been made.

ARTICLE 13 MISCELLANEOUS PROVISIONS

§ 13.1 Governing I

The Contract shall be governed by the law of the place where the Project is located, excluding that jurisdiction's choice shave selected arbitration as the method of binding dispute resolution, the Federal Arbitration of law rules. If the partie Act shall govern Section 15.4.

Successors and Assigns

The Owner and Contractor respectively bind themselves, their partners, successors, assigns, and legal tatives to covenants, agreements, and obligations contained in the Contract Documents. Except as provided in ction 13.2.2, neither party to the Contract shall assign the Contract as a whole without written consent of the other. If her party attempts to make an assignment without such consent, that party shall nevertheless remain legally esponsible for all obligations under the Contract.

§ 13.2.2 The Owner may, without consent of the Contractor, assign the Contract to a lender providing construction financing for the Project, if the lender assumes the Owner's rights and obligations under the Contract Documents. The Contractor shall execute all consents reasonably required to facilitate the assignment.

§ 13.3 Rights and Remedies

§ 13.3.1 Duties and obligations imposed by the Contract Documents and rights and remedies available thereunder shall be in addition to and not a limitation of duties, obligations, rights, and remedies otherwise imposed or available by law.

§ 13.3.2 No action or failure to act by the Owner, Architect, or Contractor shall constitute a waiver of a right or duty afforded them under the Contract, nor shall such action or failure to act constitute approval of or acquiescence in a breach thereunder, except as may be specifically agreed upon in writing.

§ 13.4 Tests and Inspections

§ 13.4.1 Tests, inspections, and approvals of portions of the Work shall be made as required by the Contract Docume and by applicable laws, statutes, ordinances, codes, rules, and regulations or lawful orders of public authorities otherwise provided, the Contractor shall make arrangements for such tests, inspections, and approvals with an independent testing laboratory or entity acceptable to the Owner, or with the appropriate public authority all related costs of tests, inspections, and approvals. The Contractor shall give the Architect timely notice where tests and inspections are to be made so that the Architect may be present for such procedure bear costs of tests, inspections, or approvals that do not become requirements until after bids are negotiations concluded. The Owner shall directly arrange and pay for tests, inspections, or a where building codes or applicable laws or regulations so require.

of the Work require § 13.4.2 If the Architect, Owner, or public authorities having jurisdiction determine that pur additional testing, inspection, or approval not included under Section 13.4.1, the Architect will, upon written authorization from the Owner, instruct the Contractor to make arrangements for such additional testing, inspection, or approval, by an entity acceptable to the Owner, and the Contractor shall give timely notice to the Architect of when and where tests and inspections are to be made so that the Architect may be present to such procedures. Such costs, except as provided in Section 13.4.3, shall be at the Owner's expense

4.1 and 13.4.2 reveal failure of the portions § 13.4.3 If procedures for testing, inspection, or approval under section. of the Work to comply with requirements established by the Contract Documents, all costs made necessary by such failure, including those of repeated procedures and compensation for the Architect's services and expenses, shall be at the Contractor's expense.

§ 13.4.4 Required certificates of testing, inspection or approval shall, unless otherwise required by the Contract oromptl elivered to the Architect. Documents, be secured by the Contractor and

ons, or approvals required by the Contract Documents, the Architect § 13.4.5 If the Architect is to observe test ins at the normal place of testing. will do so promptly and, where practical

ursuant to the Contract Documents shall be made promptly to avoid § 13.4.6 Tests or inspections conducted p unreasonable delay in the Work

§ 13.5 Interests

der the Contract Documents shall bear interest from the date payment is due at the rate the Payments due and ing or, in the absence thereof, at the legal rate prevailing from time to time at the place where parties agree upon in w the Project is

TERMINATION OR SUSPENSION OF THE CONTRACT ARTICLE 14

Termination by the Contractor

1 The Contractor may terminate the Contract if the Work is stopped for a period of 30 consecutive days through fault of the Contractor, a Subcontractor, a Sub-subcontractor, their agents or employees, or any other persons entities performing portions of the Work, for any of the following reasons:

Issuance of an order of a court or other public authority having jurisdiction that requires all Work to be

An act of government, such as a declaration of national emergency, that requires all Work to be stopped; .2

Because the Architect has not issued a Certificate for Payment and has not notified the Contractor of the .3 reason for withholding certification as provided in Section 9.4.1, or because the Owner has not made payment on a Certificate for Payment within the time stated in the Contract Documents; or

The Owner has failed to furnish to the Contractor reasonable evidence as required by Section 2.2. .4

§ 14.1.2 The Contractor may terminate the Contract if, through no act or fault of the Contractor, a Subcontractor, a Subsubcontractor, their agents or employees, or any other persons or entities performing portions of the Work, repeated suspensions, delays, or interruptions of the entire Work by the Owner as described in Section 14.3, constitute in the aggregate more than 100 percent of the total number of days scheduled for completion, or 120 days in any 365-day period, whichever is less.

§ 14.1.3 If one of the reasons described in Section 14.1.1 or 14.1.2 exists, the Contractor may, upon seven days' notice to the Owner and Architect, terminate the Contract and recover from the Owner payment for Work executed, as well as reasonable overhead and profit on Work not executed, and costs incurred by reason of such termination.

§ 14.1.4 If the Work is stopped for a period of 60 consecutive days through no act or fault of the Contractor, a Subcontractor, a Sub-subcontractor, or their agents or employees or any other persons or entities performing persons or entities performed persons or entities performed persons of the persons o the Work because the Owner has repeatedly failed to fulfill the Owner's obligations under the Contract respect to matters important to the progress of the Work, the Contractor may, upon seven additional day to the Owner and the Architect, terminate the Contract and recover from the Owner as provided in Section

§ 14.2 Termination by the Owner for Cause

§ 14.2.1 The Owner may terminate the Contract if the Contractor

repeatedly refuses or fails to supply enough properly skilled workers or anop

fails to make payment to Subcontractors or suppliers in accordance with a respective agreements .2 between the Contractor and the Subcontractors or suppliers;

and regulations, or lawful orders repeatedly disregards applicable laws, statutes, ordinances, code .3 of a public authority; or

otherwise is guilty of substantial breach of a provision of the Contract Documents. .4

§ 14.2.2 When any of the reasons described in Section 14.2.1 exist, and appropriation by the Architect that sufficient other rights or remedies of the Owner and cause exists to justify such action, the Owner may, without prejudice after giving the Contractor and the Contractor's surety, if any, seven days notice, terminate employment of the Contractor and may, subject to any prior rights of the surety.

1 Exclude the Contractor from the site and take possession of all materials, equipment, tools, and

construction equipment and machinery thereon owned by the Contractor;

Accept assignment of subcontracts physicant to Section 5.4; and .2

Finish the Work by whatever responsible method the Owner may deem expedient. Upon written request of the Contractor, the Owner soals furnish to the Contractor a detailed accounting of the costs incurred by .3 the Owner in finishing the Wor

Contract for one of the reasons stated in Section 14.2.1, the Contractor shall not § 14.2.3 When the Owner terminates the Contract for one of the r be entitled to receive further payment until the Work is finished.

§ 14.2.4 If the unpaid balance of the Contract Sum exceeds costs of finishing the Work, including compensation for the Architect's services and expenses made necessary thereby, and other damages incurred by the Owner and not expressly waived, such excess shall be paid to the Contractor. If such costs and damages exceed the unpaid balance, the Contractor shall pay the difference to the Owner. The amount to be paid to the Contractor or Owner, as the case may be, the mitial Decision Maker, upon application, and this obligation for payment shall survive shall be certified termination of the Contract.

Suspension by the Owner for Convenience

1 The Owner may, without cause, order the Contractor in writing to suspend, delay or interrupt the Work, in in part for such period of time as the Owner may determine.

4.3.2 The Contract Sum and Contract Time shall be adjusted for increases in the cost and time caused by suspension, elay, or interruption under Section 14.3.1. Adjustment of the Contract Sum shall include profit. No adjustment shall be made to the extent

that performance is, was, or would have been, so suspended, delayed, or interrupted, by another cause for .1 which the Contractor is responsible; or

that an equitable adjustment is made or denied under another provision of the Contract. .2

§ 14.4 Termination by the Owner for Convenience

§ 14.4.1 The Owner may, at any time, terminate the Contract for the Owner's convenience and without cause.

§ 14.4.2 Upon receipt of notice from the Owner of such termination for the Owner's convenience, the Contractor shall

cease operations as directed by the Owner in the notice;

take actions necessary, or that the Owner may direct, for the protection and preservation of the Work; and .2

except for Work directed to be performed prior to the effective date of termination stated in the notice, .3 terminate all existing subcontracts and purchase orders and enter into no further subcontracts and purchase orders.

§ 14.4.3 In case of such termination for the Owner's convenience, the Owner shall pay the Contractor for Worl executed; costs incurred by reason of the termination, including costs attributable to termination of Subcontract the termination fee, if any, set forth in the Agreement.

ARTICLE 15 CLAIMS AND DISPUTES

§ 15.1 Claims

§ 15.1.1 Definition

A Claim is a demand or assertion by one of the parties seeking, as a matter of right, payments Contract Time, or other relief with respect to the terms of the Contract. The term "Claum" also includes other disputes and matters in question between the Owner and Contractor arising out of or relating to the Contract. The responsibility to substantiate Claims shall rest with the party making the Claim. This Section 15. It does not require the Owner to file a Claim in order to impose liquidated damages in accordance with the Contract D

§ 15.1.2 Time Limits on Claims

The Owner and Contractor shall commence all Claims and causes of action against the other and arising out of or related to the Contract, whether in contract, tort, breach of warranty of other wise, in accordance with the requirements of the binding dispute resolution method selected in the Agreement and within the period specified by applicable law, but in any case not more than 10 years after the date of Substantial Completion of the Work. The Owner and Contractor waive all Claims and causes of action not commenced in accordance with this Section 15.1.2.

§ 15.1.3 Notice of Claims

§ 15.1.3.1 Claims by either the Owner or Contractor, where the condition giving rise to the Claim is first discovered prior to expiration of the period for correction of the Work set forth in Section 12.2.2, shall be initiated by notice to the other party and to the Initial Decision Maker with a copy sent to the Architect, if the Architect is not serving as the Initial Decision Maker. Claims by either party under this Section 15.1.3.1 shall be initiated within 21 days after Claim or within 21 days after the claimant first recognizes the condition occurrence of the event giving rise to such giving rise to the Claim, whiche

§ 15.1.3.2 Claims by either the Owner or Contractor, where the condition giving rise to the Claim is first discovered after expiration of the period for correction of the Work set forth in Section 12.2.2, shall be initiated by notice to the other party. In such event, no decision by the Initial Decision Maker is required. party. In such event, no d

§ 15.1.4 Continuing Contract Performance

§ 15.1.41 Perfing inal resolution of a Claim, except as otherwise agreed in writing or as provided in Section 9.7 and Article 12 the contractor shall proceed diligently with performance of the Contract and the Owner shall continue to make payments in accordance with the Contract Documents.

4.2 The Contract Sum and Contract Time shall be adjusted in accordance with the Initial Decision Maker's subject to the right of either party to proceed in accordance with this Article 15. The Architect will issue tificates for Payment in accordance with the decision of the Initial Decision Maker.

15.1.5 Claims for Additional Cost

If the Contractor wishes to make a Claim for an increase in the Contract Sum, notice as provided in Section 15.1.3 shall be given before proceeding to execute the portion of the Work that is the subject of the Claim. Prior notice is not required for Claims relating to an emergency endangering life or property arising under Section 10.4.

§ 15.1.6 Claims for Additional Time

§ 15.1.6.1 If the Contractor wishes to make a Claim for an increase in the Contract Time, notice as provided in Section

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15.1.3 shall be given. The Contractor's Claim shall include an estimate of cost and of probable effect of delay on progress of the Work. In the case of a continuing delay, only one Claim is necessary.

§ 15.1.6.2 If adverse weather conditions are the basis for a Claim for additional time, such Claim shall be documented by data substantiating that weather conditions were abnormal for the period of time, could not have been reasonably anticipated, and had an adverse effect on the scheduled construction.

§ 15.1.7 Waiver of Claims for Consequential Damages

The Contractor and Owner waive Claims against each other for consequential damages arising out of or relating to Contract. This mutual waiver includes

- damages incurred by the Owner for rental expenses, for losses of use, income, profit, financing and reputation, and for loss of management or employee productivity or of the services of such
- damages incurred by the Contractor for principal office expenses including the compensation of .2 personnel stationed there, for losses of financing, business and reputation, and for anticipated profit arising directly from the Work.

This mutual waiver is applicable, without limitation, to all consequential damages due to accordance with Article 14. Nothing contained in this Section 15.1.7 shall be deemed to preclude assessment of liquidated damages, when applicable, in accordance with the requirements of the Centract

§ 15.2 Initial Decision

§ 15.2.1 Claims, excluding those where the condition giving rise to the Claim is first discovered after expiration of the period for correction of the Work set forth in Section 12.2.2 or arising under Sections 10.3, 10.4, and 11.5, shall be referred to the Initial Decision Maker for initial decision. The Architect will serve as the Initial Decision Maker, unless otherwise indicated in the Agreement. Except for those Claims excluded by this Section 15.2.1, an initial decision shall be required as a condition precedent to mediation of any Claim of an initial decision has not been rendered within 30 days after the Claim has been referred to the Initial Decision Maker the party asserting the Claim may demand mediation and binding dispute resolution without a decision having been rendered. Unless the Initial Decision Maker and all affected parties agree, the Initial Decision Maker will not decide disputes between the Contractor and persons or entities other than the Owner.

and within ten days of the receipt of a Claim take one or more of § 15.2.2 The Initial Decision Maker will review Clarus the following actions: (1) request additional supporting data from the claimant or a response with supporting data from the other party, (2) reject the Claim in whole or in part, (3) approve the Claim, (4) suggest a compromise, or (5) advise the parties that the Initial Decision Maker is unable to resolve the Claim if the Initial Decision Maker lacks sufficient information to evaluate the merits of the Claim or if the Initial Decision Maker concludes that, in the Initial Decision Maker's sole discretion, it would be man propriate for the Initial Decision Maker to resolve the Claim.

§ 15.2.3 In evaluating Claims, the Initial Decision Maker may, but shall not be obligated to, consult with or seek information from either party or from persons with special knowledge or expertise who may assist the Initial Decision echsion. The Initial Decision Maker may request the Owner to authorize retention of such persons Maker in rendering at the Owner's expense

§ 15.2.4 If the Initial Decision Maker requests a party to provide a response to a Claim or to furnish additional supporting data, such party shall respond, within ten days after receipt of the request, and shall either (1) provide a response on the requested supporting data, (2) advise the Initial Decision Maker when the response or supporting data furnished, or (3) advise the Initial Decision Maker that no supporting data will be furnished. Upon receipt of the or supporting data, if any, the Initial Decision Maker will either reject or approve the Claim in whole or in

15.2.5 The Initial Decision Maker will render an initial decision approving or rejecting the Claim, or indicating that the Initial Decision Maker is unable to resolve the Claim. This initial decision shall (1) be in writing; (2) state the reasons therefor; and (3) notify the parties and the Architect, if the Architect is not serving as the Initial Decision Maker, of any change in the Contract Sum or Contract Time or both. The initial decision shall be final and binding on the parties but subject to mediation and, if the parties fail to resolve their dispute through mediation, to binding dispute resolution.

§ 15.2.6 Either party may file for mediation of an initial decision at any time, subject to the terms of Section 15.2.6.1.

§ 15.2.6.1 Either party may, within 30 days from the date of receipt of an initial decision, demand in writing that the other party file for mediation. If such a demand is made and the party receiving the demand fails to file for mediation within 30 days after receipt thereof, then both parties waive their rights to mediate or pursue binding dispute resolution proceedings with respect to the initial decision.

§ 15.2.7 In the event of a Claim against the Contractor, the Owner may, but is not obligated to, notify the surety, if any, of the nature and amount of the Claim. If the Claim relates to a possibility of a Contractor's default, the Owner may, I is not obligated to, notify the surety and request the surety's assistance in resolving the controversy

§ 15.2.8 If a Claim relates to or is the subject of a mechanic's lien, the party asserting such Claim may proceed accordance with applicable law to comply with the lien notice or filing deadlines.

§ 15.3 Mediation

§ 15.3.1 Claims, disputes, or other matters in controversy arising out of or related to the Contract, provided for in Sections 9.10.4, 9.10.5, and 15.1.7, shall be subject to mediation as a condition preent to binding dispute resolution.

§ 15.3.2 The parties shall endeavor to resolve their Claims by mediation which, unless the parties mutually agree otherwise, shall be administered by the American Arbitration Association in accordance with as Construction Industry Mediation Procedures in effect on the date of the Agreement. A request for mediation shall be made in writing, delivered to the other party to the Contract, and filed with the person or entity administering the mediation. The request may be made concurrently with the filing of binding dispute resolution proceedings but, in such event, mediation shall proceed in advance of binding dispute resolution proceedings, which shall be saved pending mediation for a period of 60 days from the date of filing, unless stayed for a longer period by agreement of the parties or court order. If an arbitration is stayed pursuant to this Section 15.3.2, the parties may ton the less proceed to the selection of the arbitrator(s) and agree upon a schedule for later proceedings.

§ 15.3.3 Either party may, within 30 days from the date that mediation has been concluded without resolution of the dispute or 60 days after mediation has been demanded without resolution of the dispute, demand in writing that the other party file for binding dispute resolution. It such a demand is made and the party receiving the demand fails to file for binding dispute resolution within 60 days after receipt thereof, then both parties waive their rights to binding dispute resolution proceedings with respect to the initial dec

and any filing fees equally. The mediation shall be held in the place § 15.3.4 The parties shall share the mediator where the Project is located, unless another location is mutually agreed upon. Agreements reached in mediation shall be any court having jurisdiction thereof. enforceable as settlement agreements in

§ 15.4 Arbitration

§ 15.4.1 If the parties have selected arbitration as the method for binding dispute resolution in the Agreement, any Claim subject to, but not resolved by mediation shall be subject to arbitration which, unless the parties mutually agree esolved by mediation shall be subject to arbitration which, unless the parties mutually agree administered by the American Arbitration Association in accordance with its Construction Industry otherwise, shall be Arbitration Rules in enert on the date of the Agreement. The Arbitration shall be conducted in the place where the Project is located, unless another location is mutually agreed upon. A demand for arbitration shall be made in writing, delivered to the other party to the Contract, and filed with the person or entity administering the arbitration. The party filing a notice of demand for arbitration must assert in the demand all Claims then known to that party on which arbitration is permitted to be demanded.

15.4.1.1 A demand for arbitration shall be made no earlier than concurrently with the filing of a request for mediation, in no event shall it be made after the date when the institution of legal or equitable proceedings based on the Claim uld be barred by the applicable statute of limitations. For statute of limitations purposes, receipt of a written demand or arbitration by the person or entity administering the arbitration shall constitute the institution of legal or equitable proceedings based on the Claim.

§ 15.4.2 The award rendered by the arbitrator or arbitrators shall be final, and judgment may be entered upon it in accordance with applicable law in any court having jurisdiction thereof.

§ 15.4.3 The foregoing agreement to arbitrate and other agreements to arbitrate with an additional person or entity duly

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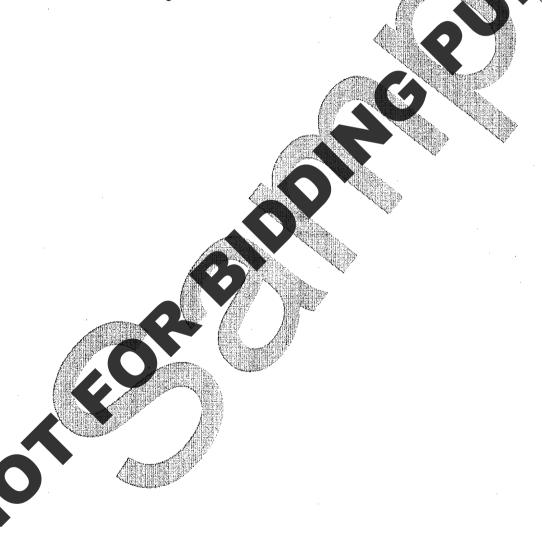
consented to by parties to the Agreement, shall be specifically enforceable under applicable law in any court having jurisdiction thereof.

§ 15.4.4 Consolidation or Joinder

§ 15.4.4.1 Subject to the rules of the American Arbitration Association or other applicable arbitration rules, either party may consolidate an arbitration conducted under this Agreement with any other arbitration to which it is a party provided that (1) the arbitration agreement governing the other arbitration permits consolidation, (2) the arbitrations to be consolidated substantially involve common questions of law or fact, and (3) the arbitrations employ materially similar procedural rules and methods for selecting arbitrator(s).

§ 15.4.4.2 Subject to the rules of the American Arbitration Association or other applicable arbitration rules either party may include by joinder persons or entities substantially involved in a common question of law or fact whose present is required if complete relief is to be accorded in arbitration, provided that the party sought to be joined consents in writing to such joinder. Consent to arbitration involving an additional person or entity shall not constitute consent to arbitration of any claim, dispute or other matter in question not described in the written consent.

§ 15.4.4.3 The Owner and Contractor grant to any person or entity made a party to an arbitration conducted under this Section 15.4, whether by joinder or consolidation, the same rights of joinder and consolidation as those of the Owner and Contractor under this Agreement.



SUPPLEMENTARY GENERAL CONDITIONS A201-2017

The following supplements modify the "General Conditions of the Contract for Construction," AIA Document A201-2017. Where a portion of the General Conditions is modified or deleted by the Supplementary Conditions, the unaltered portions of the General Conditions shall remain in effect.

TABLE OF ARTICLES

- 1. GENERAL PROVISIONS
- OWNER
- CONTRACTOR
- 4. ADMINISTRATION OF THE CONTRACT
- 5. SUBCONTRACTORS
- 6. CONSTRUCTION BY OWNER OR BY SEPARA RE-CONTRACTORS
- 7. CHANGES IN THE WORK
- 8. TIME
- 9. PAYMENTS AND COMPLETION
- 10. PROTECTION OF PERSONS AND PROPERTY
- 11. INSURANCE AND BONDS
- 12. UNCOVERING AND CORRECTION OF WORK
- 13. MISCELLANEOUS PROVISIONS
- 14. TERMINATION OR SUSPENSION OF THE CONTRACT

ARTICLE 1: GENERAL PROVISIONS

1.1 BASIC DEFINITIONS

1.1.1 THE CONTRACT DOCUMENTS

Strike the last sentence of Section 1.1.1 in its entirety and replace with the following:

"The Contract Documents also include Advertisement for Bid, Instructions to Bidder, sample forms, the Bid Form, the Contractor's completed Bid and the Award Letter."

Add the following Section:

"1.1.1.1 In the event of conflict or discrepancies among the Contract Documents, the Documents prepared by the State of Delaware, Division of Facilities Management shall take precedence over all other documents."

1.1.8 INITIAL DECISION MAKER

Strike the last sentence of Section 1.1.8 in its entirety and add the following to the end of the remaining sentence:

" and certify termination of the Agreement under Section 14.2.2."

1.2 CORRELATION AND INTENT OF THE CONTRACT DOCUMENTS

1.2.1.1 Insert "if possible" at the end of the second septence.

Add the following Sections:

- "1.2.4 In the case of an inconsistency between the Drawings and the Specifications, or within either document not clarified by addendum, the better quality or greater quantity of work shall be provided in accordance with the Architect's interpretation."
- "1.2.5 The word "PROVIDE" as used in the Contract Documents shall mean "FURNISH AND INSTALL" and shall include, without limitation, all labor, materials, equipment, transportation, services and other items required to complete the Work."
- "1.2.6 The word "PRODUCT" as used in the Contract Documents means all materials, systems and equipment."
- 1.5 OWNERSHIP AND USE OF DRAWINGS, SPECIFICATIONS AND OTHER INSTRUMENTS OF SERVICE

Strike Section 1.5.1 in its entirety and replace with the following:

"All pre-design studies, drawings, specifications and other documents, including those in electronic form, prepared by the Architect under this Agreement are, and shall remain, the property of the Owner whether the Project for which they are made is executed or not. Such documents may be used by the Owner to construct one or more like Projects without the approval of, or additional compensation to, the Architect. The Contractor, Subcontractors, Sub-subcontractors, and Material or Equipment Suppliers are authorized to use and reproduce applicable portions of the Drawings, Specifications and other documents prepared by the Architect and the Architect's consultants appropriate to and for use in the execution of their Work under the Contract Documents. They are not to be used by the Contractor or any Subcontractor, Sub-subcontractor or Material and

SUPPLEMENTARY GENERAL CONDITIONS A201-2017 R G ARCHITECTS, LLC 00 73 13 - 2

Equipment Supplier on other Projects or for additions to this Project outside the scope of the Work without the specific written consent of the Owner, Architect and Architect's consultants.

The Architect shall not be liable for injury or damage resulting from the re-use of drawings and specifications if the Architect is not involved in the re-use Project. Prior to re-use of construction documents for a Project in which the Architect is not also involved, the Owner will remove from such documents all identification of the original Architect, including name, address and professional seal or stamp."

Strike Section 1.5.2 in its entirety.

1.7 DIGITAL DATA USE AND TRANSMISSION

Strike Section 1.7 in its entirety and replace with the following:

"The parties shall agree upon protocols governing transmission and use of instruments of Service or any other information or documentation in digital form."

1.8 BUILDING INFORMATION MODELS USE AND RELIANCE

Strike Section 1.8 in its entirety.

ARTICLE 2: OWNER

2.2 EVIDENCE OF THE OWNERS FINANCIAL ARRANGEMENTS

Strike Section 2.2 in its entirety.

- 2.3 INFORMATION AND SERVICES REQUIRED OF THE OWNER
- 2.3.3 Strike 2.3.3 in its entirety.
- 2.3.4 Add the following sentence at the end of the paragraph:

"The Contractor, at their expense shall bear the costs to accurately identify the location of all underground utilities in the area of their excavation and shall bear all cost for any repairs required, out of failure to accurately identify said utilities."

Strike Section 2.3.6 in its entirety and replace with the following:

"2.3.6 The Contractor shall be furnished free of charge (1) electronic set of the Drawings and Project Manuals. Additional sets will be furnished at the cost of reproduction, postage and handling."

OWNER'S RIGHT TO CARRY OUT THE WORK

Add ", except as outlined in Section 3.15" after the reference to "Article 15" at the end of the last sentence of the Section.

ARTICLE 3: CONTRACTOR

- 3.2 REVIEW OF CONTRACT DOCUMENTS AND FIELD CONDITIONS BY CONTRACTOR
- 3.2.2 Add "and Owner" after "report to the Architect" in the second sentence.

R G ARCHITECTS, LLC

- 3.2.4 Strike "subject to Section 15.1.7" in the second sentence.
- 3.2.4 Strike the third sentence.

3.3 SUPERVISION AND CONSTRUCTION PROCEDURES

Add the following Sections:

- "3.3.2.1 The Contractor shall immediately remove from the Work, whenever r so by the Owner, any person who is considered by the Owner or Architect to be incompe disposed to be so disorderly, or who for any reason is not satisfactory to the Ox person shall not again be employed on the Work without the consent of the mer or the Architect."
- "3.3.4 The Contractor must provide suitable storage facilities at the Site or the proper protection cifications. Consult the and safe storage of their materials, or as otherwise identified by the so Owner and the Architect before storing any materials."
- "3.3.5 When any room is used as a shop, storeroom, office, etc., by the Contractor or Subcontractor(s) during the construction of the Work, the Contractor making use of these areas will be held responsible for any repairs, patching or cleaning arising from such use."

3.4 LABOR AND MATERIALS

Add the Following Sections:

- ctor shall carefully examine all preparatory Work that "3.4.4 Before starting the Work, each has been executed to receive their Work Check carefully, by whatever means are required, to insure that its Work and adjacent, related Work, will finish to proper contours, planes and levels. Promptly notify the Architect & Owner of any defects or imperfections in preparatory Work which will in any way affect satisfactory completion of its Work. Absence of such notification will be construed as an acceptance of preparatory Work and later claims of defects will not be recognized."
- "3.4.5 Under no circumstances shall the Contractor's Work proceed prior to preparatory Work having been completely cured, dried and/or otherwise made satisfactory to receive this Work. Responsibility for timely installation of all materials rests solely with the Contractor responsible for who shall maintain coordination at all times." that Work.

3.5

dd the following Sections:

- "3.5.3 The Contractor will guarantee all materials and workmanship against original defects, except injury from proper and usual wear when used for the purpose intended, for two years after Acceptance by the Owner, and will maintain all items in perfect condition during the period of warranty."
- "3.5.4 Defects appearing during the period of warranty will be made good by the Contractor at his expense upon demand of the Owner, it being required that all work will be in perfect condition when the period of warranty will have elapsed."
- "3.5.5 Upon notification by the Owner of a defect covered by the Contractor's warranty, the Contractor shall respond within 4 hours of the notification."

SUPPLEMENTARY GENERAL CONDITIONS A201-2017 R G ARCHITECTS, LLC 00 73 13 - 4 19039 "3.5.6 In addition to the General Warranty there are other warranties required for certain items for different periods of time than the two years as above, and are particularly so stated in that part of the specifications referring to same. The said warranties will commence at the same time as the General Warranty."

"3.5.7 If the Contractor fails to remedy any failure, defect or damage within a reasonable time after receipt of notice, the Owner will have the right to replace, repair, or otherwise remedy the failure, defect or damage at the Contractor's expense."

3.8 ALLOWANCES

Add the following Section:

- "3.8.1.1 For costs to be covered under a project allowance, (included in the schedule of values) the Contractor shall submit a summary of those costs anticipated and an Allowance Access Authorization Form to the Architect and Owner, reflecting the projected costs. The Allowance Access Authorization Form must be signed by the Owner prior to initiating any work associated with the allowance."
- 3.10 CONTRACTOR'S CONSTRUCTION AND SUBMITTAL SCHEDULES
- 3.10.1 Add "estimated" after "and the" and before "date of" in the second sentence.
- 3.10.2 Strike "and thereafter as necessary to maintain a current submittal schedule" in the first sentence.
- 3.11 DOCUMENTS AND SAMPLES AT THE SITE

Add the following Sections:

- "3.11.1 During the course of the Work, the Contractor shall maintain a record set of drawings on which the Contractor shall mark the actual physical location of all piping, valves, equipment, conduit, outlets, access panels, controls, actuators, including all appurtenances that will be concealed once construction is complete, etc., including all invert elevations."
- "3.11.2 At the completion of the project, the Contractor shall obtain a set of the conformed contract drawings from the Architect, and neatly transfer all information outlined in 3.11.1 to provide a complete record of the as-built conditions."
- "3.11.3 Upon completion of the work noted in 3.11.2 the contractor shall schedule a meeting with the Architect/Engineer and Owner to review the final record drawings and closeout documents prior to submission. After this meeting the Contractor shall make adjustments per the review, and submit one (1) original markup and (2) copies of the red line drawings (as-built conditions, to the Owner and one (1) print to the Architect. In addition, attach one complete set of the as-built documents to each of the Operating and Maintenance Instructions/Manuals. The Contractor will include (2) USB drives, each containing all "red line drawings (as-built) and Closeout Documents properly tabbed in accordance with closeout requirements as defined elsewhere in the contract documents."
- 3.72 SHOP DRAWINGS, PRODUCT DATA AND SAMPLES
- 3.12.10.2 Strike "If the Contract Documents require" from the beginning of the sentence.
- 3.12.10.2 Strike "to" between "professional" and certify" and replace with "shall".
- 3.17 Insert "indemnify and" between "shall" and "hold" in the second sentence.

ARTICLE 4: ADMINISTRATION OF THE CONTRACT

- 4.2 ADMINISTRATION OF THE CONTRACT
- 4.2.7 Strike the first sentence and replace with the following:

"The Architect will review and approve or take other appropriate action upon the Contractor's submittals such as Shop Drawings, Product Data and Samples for the purpose of checking to conformance with the Contract Documents."

4.2.7 Strike the second sentence and replace with the following:

"The Architect's action will be taken with such reasonable promptness as to cause no delay in the Work in the activities of the Owner, Contractor or separate Contractors, while allowing sufficient time in the Owner's professional judgment to permit adequate review."

Add the following Section:

"4.2.10.1 There will be no full-time Project Representative provided by the Owner or Architect on this project."

"4.2.13 Add "and in compliance with all local requirements." to the end of the sentence."

ARTICLE 5: SUBCONTRACTORS

- 5.2 AWARD OF SUBCONTRACTS AND OTHER CONTRACTS FOR PORTIONS OF THE WORK
- 5.2.3 Strike Section 5.2.3 in its entirety and replace with the following:

"If the Owner or Architect has reasonable objection to a person or entity proposed by the Contractor, the Contractor shall propose another to whom the Owner or Architect has no reasonable objection, subject to the statutory requirements of 29 <u>Delaware Code</u> § 6962(d)(10)b.3 and 4."

5.2.4 Strike Section 5.2 4 in its entirety and replace with the following:

"The Contractor may not substitute any Subcontractor listed in its Bid unless the Contractor complies with the requirements of 29 Delaware Code § 6962(d)(10)b.3 and 4. Failure to comply with this requirement shall subject the Contractor to a penalty as outlined in Section 5.2 of the Owner's Ceneral Requirements."

SUPPLEMENTARY GENERAL CONDITIONS A201-2017 00 73 13 - 6

Add the following Section:

"5.2.5 The Contractor shall comply and shall ensure all Subcontractors comply with all requirements for drug testing as set forth in TITLE 19 LABOR
DELAWARE ADMINISTRATIVE CODE 4000 Office of Management and Budget 4100 Division of Facilities Management 4104 Regulations for the Drug Testing of Contractor and Subcontractor Employees Working on Large Public Works Projects."

ARTICLE 6: CONSTRUCTION BY OWNER OR BY SEPARATE CONTRACTORS

- 6.1 OWNER'S RIGHT TO PERFORM CONSTRUCTION AND TO AWARD SEPARATE CONTRACTS
- 6.1.1 Strike "and waiver of subrogation" from the end of the second sentence
- 6.1.4 Strike Section 6.1.4 in its entirety.
- 6.2 MUTUAL RESPONSIBILITY
- 6.2.3 Strike "shall" and replace with "may" in the second sentence.

ARTICLE 7: CHANGES IN THE WORK

(SEE ARTICLE 7: CHANGES IN WORK IN THE STATE OF DELAWARE DIVISION OF FACILITIES MANAGEMENT GENERAL REQUIREMENTS)

- 7.3.4.1 Strike "and other employee costs approved by the Architect" after "worker's compensation insurance,"
- 7.3.4.4 Add "work attributable to the" before "change" at the end of the sentence.
- 7.4 MINOR CHANGES IN WORK

Add "unless such changes are approved" at the end of the third sentence.

ARTICLE 8: TIME

- 8.2 PROGRESS AND COMPLETION
- 8.2.1 Add the following Section:
 - "8.2.1.1 Refer to Project Specifications Section SUMMARY OF WORK for Contract time requirements."
- After "by the Contractor" strike "and" and insert "to".
- 8.2.4 Add the following Section:

"8.2.4 If the Work falls behind the Progress Schedule as submitted by the Contractor, the Contractor shall employ additional labor and/or equipment necessary to bring the Work into compliance with the Progress Schedule at no additional cost to the Owner."

8.3 DELAYS AND EXTENSION OF TIME

R G ARCHITECTS, LLC

8.3.1 Strike "binding dispute resolution" and insert "any and all remedies at law or in equity".

Add the following Section:

"8.3.2.1 The Contractor shall update the status of the suspension, delay, or interruption of the Work with each Application for Payment. (The Contractor shall report the termination of such cause immediately upon the termination thereof.) Failure to comply with this procedure shall constitute a waiver for any claim for adjustment of time or price based upon said cause."

Strike Section 8.3.3 in its entirety and replace with the following:

8.3.3 "Except in the case of a suspension of the Work directed by the Owner, an extension of time under the provisions of Section 8.3.1 shall be the Contractor's sole remedy in the progress of the Work and there shall be no payment or compensation to the Contractor for any expense or damage resulting from the delay."

Add the following Section:

"8.3.4 By permitting the Contractor to work after the expired time for completion of the project, the Owner does not waive their rights under the Contract."

ARTICLE 9: PAYMENTS AND COMPLETION

9.2 SCHEDULE OF VALUES

Add the following Sections:

"9.2.1 The Schedule of Values shall be submitted using AIA Document G703, Continuation Sheet to G702."

"9.2.2 The Schedule of Values is to include a line item for Project Closeout Document Submittal. The value of this item is to be no less than 1.5% of the initial contract amount."

- 9.3 APPLICATIONS FOR PAYMENT
- 9.3.1 Strike Section 9.3.1 in its entirety and replace with the following:

"At least ten days before the date established for each progress payment, the Contractor shall submit to the Architect an itemized Application for Payment prepared in accordance with the schedule of values for completed portions of the Work. The application shall be notarized, and supported by all data substantiating the Contractor's right to payment that the Owner or Architect require, such as copies of requisitions, and releases and waivers of liens from Subcontractors and suppliers, and shall reflect retainage."

Add the following Sections:

"9.3.1.3 Application for Payment shall be submitted on AIA Document G702 "Application and Certificate for Payment", supported by AIA Document G703 "Continuation Sheet". Said Applications shall be fully executed and notarized."

SUPPLEMENTARY GENERAL CONDITIONS A201-2017 00 73 13 - 8

"9.3.4 Until Closeout Documents have been received and outstanding items completed the Owner will pay 95% (ninety-five percent) of the amount due the Contractor on account of progress payments."

"9.3.5 The Contractor shall provide a current and updated Progress Schedule to the Architect with each Application for Payment. Failure to provide Schedule will be just cause for rejection of Application for Payment."

9.5 DECISIONS TO WITHHOLD CERTIFICATION

Add the following Subsections to 9.5.1:

- .8 failure to provide a current Progress Schedule;
- .9 a lien or attachment is filed;
- .10 failure to comply with mandatory requirements for maintaining Record Documents.

9.6 PROGRESS PAYMENTS

9.6.1 Strike Section 9.6.1 in its entirety and replace with the following:

"9.6.1 After the Architect has approved and issued a Certificate for Payment, payment shall be made by the Owner within 30 days after Owner's receipt of the Certificate for Payment."

9.6.8 Strike "Provided the Owner has fulfilled its payment obligations under the Contract Documents," in the first sentence.

9.7 FAILURE OF PAYMENT

Strike Section 9.7 in its entirety and replace with the following:

"If the Architect does not issue a Cerificate for Payment, through no fault of the Contractor, within fourteen days after receipt of the Contractor's Application for Payment, or if the Owner does not pay the Contractor within thirty days after the date established in the Contract Documents, the amount certified by the Architect, then the Contractor may, upon thirty additional days' notice to the Owner and Architect, stop the Work until payment of the amount owing has been received. The Contract Time shall be extended appropriately and the Contract Sum shall be increased by the amount of the Contractor's reasonable costs of shutdown, delay and start-up, plus interest as provided for in the Contract Documents."

9.8 SUBSTANTIAL COMPLETION

9.8.3 At the end of Section 9.8.3, add the following sentence:

If the Architect is required to make more than 2 inspections of the same portion of work, the contractor shall be responsible for all costs associated with subsequent inspections including but not limited to any Architect's fees."

- \$8.5 Strike "shall" and insert "may" in the second sentence.
- 95.5 Insert "1/2 of the" after "make payment of" in the second sentence.

- 9.9 PARTIAL OCCUPANCY OR USE
- 9.9.1 Strike the the first sentence and replace with the following (the remainder of the Section remains as written):

"The Owner may occupy or use any completed or partially completed portion of the Work at any stage when such portion is designated by separate agreement with the Contractor, provided such occupancy or use authorized by public authorities having jurisdiction over the Project."

- 9.10.2 Strike "to remain in force after final payment is currently in effect" after "required by the Contract Documents" and replace with "shall remain in force until final payment is completed" in the distance.
- 9.10.4.4 Strike "if permitted by the Contract Documents,"

ARTICLE 10: PROTECTION OF PERSONS AND PROPERTY

10.1 SAFETY PRECAUTIONS AND PROGRAMS

Add the following Sections:

- 10.1.1 Each Contractor shall develop a safety program in accordance with the Occupational Safety and Health Act of 1970. A copy of said plan shall be furnished to the Owner and Architect prior to the commencement of that Contractor's Work.
- Each Contractor shall appoint a Safety Representative. Safety Representatives shall be someone who is on site on a full time basis. If deemed necessary by the Owner or Architect, Contractor Safety meetings will be scheduled. The attendance of all Safety Representatives will be required. Minutes will be recorded of said meetings by the Contractor and will be distributed to all parties as well as posted in all job offices/trailers etc.
- 10.2 SAFETY OF PERSONS AND PROPERTY

Add the following Section:

- As required in the Hazardous Chemical Act of June 1984, all vendors supplying any material that may be defined as hazardous must provide Material Safety Data Sheets for those products. Any chemical product should be considered hazardous if it has a caution warning on the label relating to a potential physical or health hazard, if it is known to be present in the work place, and if employees may be exposed under normal conditions or in foreseeable emergency situations. Material Safety Data Sheets shall be provided directly to the Owner, along with the shipping slips that include those products.
- 10.2.5 Strike the second sentence in its entirety.
- 10.3 HAZARDOUS MATERIALS AND SUBSTANCES
- 10.3.3 Strike Section 10.3.3 in its entirety.
- 0.3.4 Insert "hazardous" in the last sentence after "handling of such".
- 10.3.6 Strike Section 10.3.6 in its entirety.

ARTICLE 11: INSURANCE AND BONDS

11.1 CONTRACTOR'S INSURANCE AND BONDS

- 11.1.1 Strike "Owner" from the the third sentence.
- 11.2 OWNER'S LIABILITY INSURANCE

Strike 11.2in its entirety, except that in the case of school projects in which case Section 11.2 shall remain.

11.3 WAIVERS OF SUBROGATION

Delete Section 11.3 in its entirety

11.4 LOSS OF USE, BUSINESS INTERRUPTION, AND DELAY IN COMPLETION INSURANCE

Delete Section 11.4 in its entirety

ARTICLE 12: UNCOVERING AND CORRECTION OF WORK

12.2.2 AFTER SUBSTANTIAL COMPLETION

Add the following Section:

- "12.2.2.1.1 At any time during the progress of the Work, or in any case where the nature of the defects will be such that it is not expedient to have corrected, the Owner, at its option, will have the right to deduct such sum, or sums, of money from the amount of the Contract as it considers justified to adjust the difference in value between the non-conforming work and that required under contract including any damage to the structure."
- 12.2.2.1 Strike all references to "one year" or "one-year" and replace with "two years".
- 12.2.2.2 Strike "one-year" and replace with "two years".
- 12.2.2.3 Strike "one-year" and replace with "two years".
- 12.2.5 Strike "one-year" and replaced with "two years".

ARTICLE 13: MISCELLANEOUS PROVISIONS

- 13.1 GOVERNING LAW
 - Strike the last sentence.
- 13.4 TESTS AND INSPECTIONS
- 13.41 Strike the last sentence and replace with the following:

"The Owner shall pay for tests, inspections, or approvals where building codes or applicable laws or regulations prohibit the Owner from delegating their cost to the Contractor."

3.5 INTEREST

Strike "the date payment is due at such rate as the parties may agree upon in writing or, in the absence thereof, at the legal rate prevailing from time to time at the place where the Project is located" and replace with "30 days of presentment of the authorized Certificate of Payment at the annual rate of 12% or 1% per month."

Insert the following Section:

"13.6 CONFLICTS WITH FEDERAL STATUTES OR REGULATIONS

13.6.1 If any provision, specifications or requirement of the Contract Documents conflict or is inconsistent with any statute, law or regulation of the government of the United State of America the Contractor shall notify the Architect and Owner immediately upon discovery."

ARTICLE 14: TERMINATION OR SUSPENSION OF THE CONTRACT

14.	1	TERMINATION	l BY	THE	CONTRACTOR
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- 14.1.1.4 Insert ", upon the Contractors' request," after ""furnish to the Contractor"
- 14.1.3 Strike "and profit on Work not executed, and" after "as well as reasonable overhead" and replace with ". profit, and reasonable"
- 14.3 SUSPENSION BY OWNER FOR CONVENIENCE
- 14.3.2 Strike "Adjustment of the Contract Sum shall include profit
- 14.4 TERMINATION BY THE OWNER FOR CONVENIENCE
- 14.4.3 Strike Section 14.4.3 in its entirety and replace with the following:

"In case of such termination for the Owner's convenience, the Contractor shall be entitled to receive payment for Work executed, and reasonable costs incurred by reason of such termination along with reasonable overhead."

ARTICLE 15: CLAIMS AND DISPUT

- 15.1 CLAIMS
- 15.1.2 TIME LIMITS ON CLAIMS

Strike the last sentence.

15.1.3 NOTICE OF CLAIM

Stake all references to "21" and replace with "45".

15.1.5 CLAIMS FOR ADDITIONAL COSTS

Strike the first sentence and replace with the following:

"Contractor shall not proceed to execute any portion of the Work that is subject to the Claim without prior approval of the costs or method of payment for the costs associated with the Claim as determined by the Architect and approved by the Owner."

15.1.7 WAIVER OF CLAIMS FOR CONSEQUENTIAL DAMAGES

Strike Section 15.1.7 in its entirety.

SUPPLEMENTARY GENERAL CONDITIONS A201-2017 00 73 13 - 12

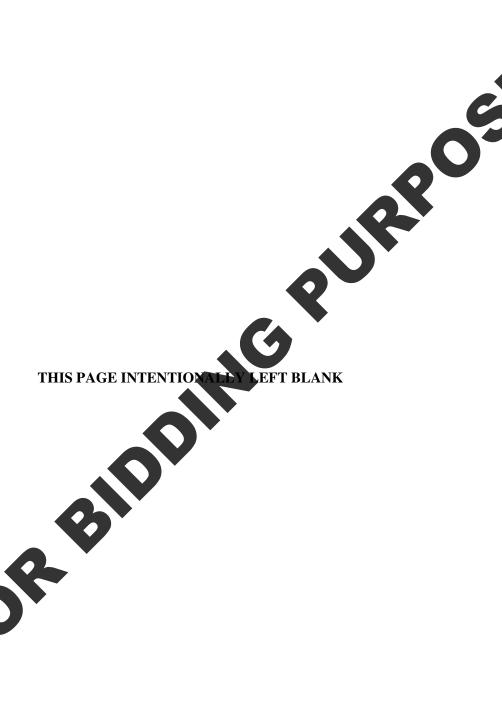
15.2	INITIAL DECISION
15.2.1	Strike "and binding dispute resolution" in the fourth sentence and replace with "or any and all remedies at law or in equity".
15.2.5	Strike Section 15.2.5 in its entirety and replace with the following:
	"The Architect will approve or reject Claims by written decision, which shall state the reasons therefore and shall notify the parties of any change in the Contract Sum or Contract Time or both. The approval or rejection of a Claim by the Architect shall be subject to mediation and any or all remedies at law or in equity."
15.2.6	Strike Section 15.2.6 and its subSections in their entirety.
15.3	MEDIATION
15.3.1	Strike "binding dispute resolution" and replace with "any or all remedles at law or in equity".
15.3.2	Strike ", shall be administered by the American Arbitration Association in accordance with its Construction Industry Mediation Procedure in effect on the date of the Agreement," in the first sentence.
15.3.2	Strike all references to "binding dispute resolution" and replace with "any or all remedies at law and in equity".
15.3.3	Strike Section 15.3.3 in its entirety.
15.4	ARBITRATION
	Strike Section 15.4 and its Subsections in their entirety.

ND OF SECTION 00 73 13



WAGE RATE DETERMINATION SCHEDULE

The Delaware Department of Labor Division of Industrial Affairs has established the category and associated prevailing wage rate for this project. The project approved prevailing wage rate determination schedule follows.



STATE OF DELAWARE DEPARTMENT OF LABOR

DIVISION OF INDUSTRIAL AFFAIRS OFFICE OF LABOR LAW ENFORCEMENT

PHONE: (302) 761-8200

Mailing Address: 4425 North Market Street 3rd Floor Wilmington, DE 19802 Located at: 4425 North Market Street 3rd Floor Wilmington, DE 19802

PREVAILING WAGES FOR HIGHWAY CONSTRUCTION EFFECTIVE MARCH 15, 2019

CLASSIFICATION	NEW CASTLE	KENT	SUSSEX
BRICKLAYERS	55.89	55.89	55.89
CARPENTERS	55.95	55.63	44.22
CEMENT FINISHERS	35.48	35.70	28.39
ELECTRICAL LINE WORKERS	29.40	47.49	23.24
ELECTRICIANS	70.49	70.49	70.49
IRON WORKERS	65.24	26 10	27.72
LABORERS	45.30	41 69	40.93
MILLWRIGHTS	17.62	17.10	14.76
PAINTERS	71.29	71.29	71.29
PILEDRIVERS	72.65	25.98	29.47
POWER EQUIPMENT OPERATORS	67.07	43.32	39.68
SHEET METAL WORKERS	24.89	22.21	20.12
TRUCK DRIVERS	37.52	30.88	37.62

CERTIFIED: 7/35/19

BY Chowlend on behalf of Francis
IMINISTRATOR, OFFICE OF LABOR LAW ENFORCEMENT CHUZIK

NOTE:

THESE RATES ARE PROMULGATED AND ENFORCED PURSUANT TO THE PREVAILING WAGE REGULATIONS ADOPTED BY THE DEPARTMENT OF LABOR ON APRIL 3, 1992.

CLASSIFICATIONS OF MORKERS ARE DETERMINED BY THE DEPARTMENT OF LABOR. FOR ASSISTANCE IN CLASSIFYING WORKERS, OR FOR A COPY OF THE REGULATIONS OR CLASSIFICATIONS, PRONE (302) 451-3423.

NON-REGISTERED APPRENTICES MUST BE PAID THE MECHANIC'S RATE.

PROJECT: 19039 Take Forest School District Paving Improvements , Kent County

GENERAL REQUIREMENTS

TABLE OF ARTICLES

- 1. **GENERAL PROVISIONS**
- 2.
- 3.
- 4.
- 5.
- CONSTRUCTION BY OWNER OR BY SEPARATE CONTRACTORS

 CHANGES IN THE WORK

 TIME

 'AYMENTS AND COMPLETION

 ROTECTION OF 6.
- 7.
- 8.
- 9.
- 10.
- **INSURANCE AND BONDS** 11.
- 12. **UNCOVERING AND CORRECT**
- 13. MISCELLANEOUS PROVISION
- TERMINATION OR SUSP ENSION OF THE CONTRACT 14.

ARTICLE 1: GENERAL

1.1 CONTRACT DOCUMENTS

- 1.1.1 The intent of the Contract Documents is to include all items necessary for the proper execution and completion of the Work by the Contractor. The Contract Documents are complementary and what is required by one shall be as binding as if required by all Performance by the Contractor shall be required to an extent consistent with the Contract Documents and reasonably inferable from them as being necessary to produce the intended results.
- 1.1.2 Work including material purchases shall not begin until the Contractor is in receipt of a bonafide State of Delaware Purchase Order. Any work performed or material purchases prior to the issuance of the Purchase Order is done at the Contractor's own risk and cost.

1.2 EQUALITY OF EMPLOYMENT OPPORTUNITY ON PUBLIC WORK

- 1.2.1 For Public Works Projects financed in whole or in part by state appropriation the Contractor agrees that during the performance of this contract:
 - 1. The Contractor will not discriminate against any employee or applicant for employment because of race, creed, sex, color, sexual orientation, gender identity or national origin. The Contractor will take positive steps to ensure that applicants are employed and that employees are freated during employment without regard to their race, creed, sex, color, sexual orientation, gender identity or national origin. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places available to employees and applicants for employment notices to be provided by the contracting agency setting forth this nondiscrimination clause.
 - 2. The Contractor will in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, creed, sex, color, sexual orientation gender identity or national origin."

ARTICLE 2: OWNER

(NO ADDITIONAL GENERAL REQUIREMENTS - SEE SUPPLEMENTARY GENERAL CONDITIONS)

ARTICLE 3: CONTRACTOR

- 3.1 Schedule of Values: The successful Bidder shall within twenty (20) days after receiving notice to proceed with the work, furnish to the Owner a complete schedule of values on the various items comprising the work.
 - Subcontracts: Upon approval of Subcontractors, the Contractor shall award their Subcontracts as soon as possible after the signing of their own contract and see that all material, their own and those of their Subcontractors, are promptly ordered so that the work will not be delayed by failure of materials to arrive on time.
- 3.3 Before commencing any work or construction, the General Contractor is to consult with the Owner as to matters in connection with access to the site and the allocation of Ground Areas for the various features of hauling, storage, etc.

GENERAL REQUIREMENTS R G ARCHITECTS, LLC 00 81 13 - 2 19039

- 3.4 The Contractor shall supervise and direct the Work, using the Contractor's best skill and attention. The Contractor shall be solely responsible for and have control over construction means, methods, techniques, sequences and procedures and for coordinating all portions of the Work under the Contract, unless the Contract Documents give other specific instructions.
- 3.5 The Contractor shall enforce strict discipline and good order among the Contractor's employees and other persons carrying out the Contract. The Contractor shall not permit employment of unfit persons or persons not skilled in tasks assigned to them.
- The Contractor warrants to the Owner that materials and equipment furnished will be new and of good quality, unless otherwise permitted, and that the work will be free from defects and in conformance with the Contract Documents. Work not conforming to these requirements, including substitutions not properly approved, may be considered defective. If required by the Owner, the Contractor shall furnish evidence as to the kind and quality of materials and equipment provided.
- Unless otherwise provided, the Contractor shall pay all sales, consumer, use and other similar taxes, and shall secure and pay for required permits, fees, licenses, and inspections necessary for proper execution of the Work.
- The Contractor shall comply with and give notices required by laws, ordinances, rules, regulations, and lawful orders of public authorities bearing on performance of the Work. The Contractor shall promptly notify the Owner if the Drawings and Specifications are observed to be at variance therewith.
- 3.9 The Contractor shall be responsible to the Owner for the acts and omissions of the Contractor's employees, Subcontractors and their agents and employees, and other persons performing portions of the Work under contract with the Contractor.
- 3.10 The Contractor shall keep the premises and surrounding area free from accumulation of waste materials or rubbish caused by operations under the Contract. At completion of the Work the Contractor shall remove from and about the Project all waste materials, rubbish, the Contractor's tools, construction equipment, machinery and surplus materials. The Contractor shall be responsible for returning all damaged areas to their original conditions.
- 3.11 STATE LICENSE AND TAX REQUIREMENTS
- 3.11.1 Each Contractor and Subcontractor shall be licensed to do business in the State of Delaware and shall pay all fees and taxes due under State laws. In conformance with Section 2508, Chapter 25, Title 30, <u>Delaware Code</u>, "the Contractor shall furnish the Delaware Department of Finance within ten (10) days after entering into any contract with a contractor or subcontractor not a resident of this State, a statement of total value of such contract or contracts together with the names and addresses of the contracting parties."
 - The Contractor shall comply with all requirements set forth in Section 6962, Chapter 69, Title 29 of the Delaware Code.

R G ARCHITECTS, LLC 19039 3.13 During the contract Work, the Contractor and each Subcontractor, shall implement an Employee Drug Testing Program in accordance with OMB Regulation 4104 - "Regulations for the Drug Testing of Contractor and Subcontractor Employees Working on "Large Public Works Projects". "Large Public Works" is based upon the current threshold required for bidding Public Works as set by the Purchasing and Contracting Advisory Council.

ARTICLE 4: ADMINISTRATION OF THE CONTRACT

- 4.1 CONTRACT SURETY
- 4.1.1 PERFORMANCE BOND AND LABOR AND MATERIAL PAYMENT BOND
- 4.1.2 All bonds will be required as follows unless specifically waived elsewhere in the Bidding Documents.
- 4.1.3 Contents of Performance Bonds The bond shall be in the form approved by the Office of Management and Budget. The bond shall be conditioned upon the faithful compliance and performance by the successful bidder of each and every term and condition of the contract and the proposal, plans, specifications, and bid dosuments thereof. Each term and condition shall be met at the time and in the mariner prescribed by the Contract, Bid documents and the specifications, including the payment in full to every person furnishing materiel or performing labor in the performance of the Contract, of all sums of money due the person for such labor and materiel. (The bond shall also contain the successful bidder's guarantee to indemnify and save harmless the State and the agency from all costs, damages and expenses growing out of or by reason of the Contract in accordance with the Contract.)
- 4.1.4 Invoking a Performance Bond The agency may, when it considers that the interest of the State so requires, cause judgement to be confessed upon the bond.
- 4.1.5 Within twenty (20) days after the date of notice of award of contract, the Bidder to whom the award is made shall furnish a Performance Bond and Labor and Material Payment Bond, each equal to the full amount of the Contract price to guarantee the faithful performance of all terms, covenants and conditions of the same. The bonds are to be issued by an acceptable Bonding Company licensed to do business in the State of Delaware and shall be issued in duglicate.
- Performance and Payment Bonds shall be maintained in full force (warranty bond) for a period of two (2) years after the date of the Certificate for Final Payment. The Performance Bond shall guarantee the satisfactory completion of the Project and that the Contractor will make good any faults or defects in his work which may develop during the period of said quarantees as a result of improper or defective workmanship, material or apparatus, whether furnished by themselves or their Sub-Contractors. The Payment Bond shall guarantee that the Contractor shall pay in full all persons, firms or corporations who furnish labor or material or both labor and material for, or on account of, the work included herein. The bonds shall be paid for by this Contractor. The Owner shall have the right to demand that the proof parties signing the bonds are duly authorized to do so.

GENERAL REQUIREMENTS 00 81 13 - 4

4.2 FAILURE TO COMPLY WITH CONTRACT

If any firm entering into a contract with the State, or Agency that neglects or refuses to perform or fails to comply with the terms thereof, the Agency which signed the Contract may terminate the Contract and proceed to award a new contract in accordance with this Chapter 69, Title 29 of the Delaware Code or may require the Surety on the Performance Bond to complete the Contract in accordance with the terms of the Performance Bond Nothing herein shall preclude the Agency from pursing additional remedies as otherwise provided by law.

4.3 CONTRACT INSURANCE AND CONTRACT LIABILITY

- In addition to the bond requirements stated in the Bid Documents, each successful Bidder shall purchase adequate insurance for the performance of the Contract and, by submission of a Bid, agrees to indemnify and save harmless and to defend all legal or equitable actions brought against the State, any Agency, officer and or employee of the State, for and from all claims of liability which is or may be the result of the successful Bidder's actions during the performance of the Contract.
- The purchase or nonpurchase of such insurance or the involvement of the successful Bidder in any legal or equitable defense of any action brought against the successful Bidder based upon work performed pursuant to the Contract will not waive any defense which the State, its agencies and their respective officers, employees and agents might otherwise have against such claims, specifically including the defense of sovereign immunity, where applicable, and by the terms of this section, the State and all agencies, officers and employees thereof shall not be financially responsible for the consequences of work performed, pursuant to said contract.

4.4 RIGHT TO AUDIT RECORDS

- 4.4.1 The Owner shall have the right to audit the books and records of a Contractor or any Subcontractor under any Contract or Subcontract to the extent that the books and records relate to the performance of the Contract or Subcontract.
- 4.4.2 Said books and records shall be maintained by the Contractor for a period of seven (7) years from the date of final payment under the Prime Contract and by the Subcontractor for a period of sever (7) years from the date of final payment under the Subcontract.

ARTICLE 5: SUBCONTRACTORS

5.1 SUBCONTRACTING REQUIREMENTS

- 5.1.1 All contracts for the construction, reconstruction, alteration or repair of any public building (not a road, street or highway) shall be subject to the following provisions:
 - 1. A contract shall be awarded only to a Bidder whose Bid is accompanied by a statement containing, for each Subcontractor category, the name and address (city or town and State only street number and P.O. Box addresses not required) of the subcontractor whose services the Bidder intends to use in performing the Work and providing the material for such Subcontractor category.

R G ARCHITECTS, LLC 19039

- 2. A Bid will not be accepted nor will an award of any Contract be made to any Bidder which, as the Prime Contractor, has listed itself as the Subcontractor for any Subcontractor unless:
 - A. It has been established to the satisfaction of the awarding Agency that the Bidder has customarily performed the specialty work of such Subcontractor category by artisans regularly employed by the Bidder's firm;
 - B. That the Bidder is duly licensed by the State to engage in such specialty work, if the State requires licenses; and
 - C. That the Bidder is recognized in the industry as a bone fide Subcontractor or Contractor in such specialty work and Subcontractor sategory.
- 5.1.2 The decision of the awarding Agency as to whether a Bittle who list itself as the Subcontractor for a Subcontractor category shall be final and binding upon all Bidders, and no action of any nature shall lie against any awarding agency or its employees or officers because of its decision in this regard.
- 5.1.3 After such a Contract has been awarded, the successful Bidder shall not substitute another Subcontractor for any Subcontractor whose name was set forth in the statement which accompanied the Bid without the written consent of the awarding Agency.
- 5.1.4 No Agency shall consent to any substitution of Subcontractors unless the Agency is satisfied that the Subcontractor whose name is on the Bidders accompanying statement:
 - A. Is unqualified to perform the work required;
 - B. Has failed to execute a timely reasonable Subcontract;
 - C. Has defaulted in the performance on the portion of the work covered by the Subcontract or
 - D. Is no longer engaged in such business.
- Should a Bidder be awarded a contract, such successful Bidder shall provide to the agency the taxpayer identification license numbers of such subcontractors. Such numbers shall be provided on the later of the date on which such subcontractor is required to be identified or the time the contract is executed. The successful Bidder shall provide to the agency to which it is contracting, within 30 days of entering into such public works contract, copies of all Delaware Business licenses of subcontractors and/or independent contractors that will perform work for such public works contract. However, if a subcontractor or independent contractor is hired or contracted more than 20 days after the Bidder entered the public works contract the Delaware Business license of such subcontractor or independent contractor shall be provided to the agency within 10 days of being contracted or hired.

The Contractor may employ additional Subcontractors on the jobsite only after submitting a copy of the Subcontractor's Employee Drug Testing Program to the Owner for approval. A Contractor or Subcontractor shall not commence work until the Owner has concluded its review and determined that the submitted Employee Drug Testing Program complies with OMB Regulation 4104.

5.2 PENALTY FOR SUBSTITUTION OF SUBCONTRACTORS

Should the Contractor fail to utilize any or all of the Subcontractors in the Contractor's Bid statement in the performance of the Work on the public bidding, the Contractor shall be penalized in the amount of (project specific amount*). The Agency may determine to deduct payments of the penalty from the Contractor or have the amount paid directly to the Agency. Any penalty amount assessed against the Contractor may be remitted or refunded, in whole or in part, by the Agency awarding the Contract, only if it is established to the satisfaction of the Agency that the Subcontractor in question has defaulted or is no longer engaged in such business. No claim for the remission or refund of any penalty shall be granted unless an application is filed within one year after the liability of the successful Bidder accrues. All penalty amounts assessed and not refunded or remitted to the contractor shall be reverted to the State.

*one (1) percent of contract amount not to exceed \$10,000

5.3 ASBESTOS ABATEMENT

- 5.3.1 The selection of any Contractor to perform asbestos abatement for State-funded projects shall be approved by the Office of Management and Budget, Division of Facilities Management pursuant to Chapter 78 of Title 16.
- 5.4 STANDARDS OF CONSTRUCTION FOR THE PROTECTION OF THE PHYSICALLY HANDICAPPED
- 5.4.1 All Contracts shall conform with the standard established by the Delaware Architectural Accessibility Board unless otherwise exempted by the Board.
- 5.5 CONTRACT PERFORMANCE
- Any firm entering into a Public Works Contract that neglects or refuses to perform or fails to comply with its terms, the Agency may terminate the Contract and proceed to award a new Contract or may require the Surety on the Performance Bond to complete the Contract in accordance with the terms of the Performance Bond.

ARTICLE 6: CONSTRUCTION BY OWNER OR SEPARATE CONTRACTORS

- The Owner reserves the right to simultaneously perform other construction or operations related to the Project with the Owner's own forces, and to award separate contracts in connection with other portions of the Project or other Projects at the same site.
- 7.2 The Contractor shall afford the Owner and other Contractors reasonable opportunity for access and storage of materials and equipment, and for the performance of their activities, and shall connect and coordinate their activities with other forces as required by the Contract Documents.

ARTICLE 7: CHANGES IN THE WORK

The Owner, without invalidating the Contract, may order changes in the Work consisting of Additions, Deletions, Modifications or Substitutions, with the Contract Sum and Contract completion date being adjusted accordingly. Such changes in the Work shall be authorized by written Change Order signed by the Professional, as the duly authorized agent, the Contractor and the Owner.

R G ARCHITECTS, LLC 19039

- 7.2 The Contract Sum and Contract Completion Date shall be adjusted only by a fully executed Change Order.
- 7.3 The additional cost, or credit to the Owner resulting from a change in the Work shall be by mutual agreement of the Owner, Contractor and the Architect. In all cases, this cost or credit shall be based on the 'DPE' wages required and the "invoice price" of the materials/equipment needed.
- 7.3.1 "DPE" shall be defined to mean "direct personnel expense". Direct payroll expense includes prevailing wage rates plus a maximum multiplier of 1.35 times DPE. For example (if the prevailing wage rate is \$50/hour, the DPE would be \$67.50/hour (50 x 1.35).
- 7.3.2 "Invoice price" of materials/equipment shall be defined to mean the actual cost of materials and/or equipment that is paid by the Contractor, (or subcontractor), to a material distributor, direct factory vendor, store, material provider, or equipment leasing entity. Rates for equipment that is leased and/or owned by the Contractor or subcontractor(s) shall not exceed those listed in the latest version of the "Means Building Construction Cost Data" publication.
- In addition to the above, the General Contractor is allowed a fifteen percent (15%) markup for overhead and profit for additional work performed by the General Contractor's own forces. For additional subcontractor work, the Subcontractor is allowed a fifteen (15) percent overhead and profit on change order work above and beyond the direct costs stated previously. To this amount, the General Contractor will be allowed a mark-up not exceeding seven and one half percent (7.5%) on the subcontractors work. These mark-ups shall include all costs including, but not limited to: overhead, profit, bonds, insurance, supervision, etc. No markup is permitted on the work of the subcontractors subcontractor. No additional costs shall be allowed for changes related to the Contractor's onsite superintendent/staff, or project manager, unless a change in the work changes the project duration and is identified by the CPM schedule. There will be no other costs associated with the change order.

ARTICLE 8: TIME

- 8.1 Time limits, if any, are as stated in the Project Manual. By executing the Agreement, the Contractor confirms that the stipulated limits are reasonable, and that the Work will be completed within the anticipated time frame.
- 8.2 If progress of the Work is delayed at any time by changes ordered by the Owner, by labor disputes fire, unusual delay in deliveries, abnormal adverse weather conditions, unavoidable casualties or other causes beyond the Contractor's control, the Contract Time shall be extended for such reasonable time as the Owner may determine.
- Any extension of time beyond the date fixed for completion of the construction and acceptance of any part of the Work called for by the Contract, or the occupancy of the building by the Owner, in whole or in part, previous to the completion shall not be deemed a waiver by the Owner of his right to annul or terminate the Contract for abandonment or delay in the matter provided for, nor relieve the Contractor of full responsibility.

GENERAL REQUIREMENTS 00 81 13 - 8

8.4 SUSPENSION AND DEBARMENT

- 8.4.1 Per Section 6962(d)(14), Title 29, Delaware Code, "Any Contractor who fails to perform a public works contract or complete a public works project within the time schedule established by the Agency in the Invitation To Bid, may be subject to Suspension or Debarment for one or more of the following reasons: a) failure to supply the adequate labor supply ratio for the project; b) inadequate financial resources; or, c) poor performance on the Project."
- "Upon such failure for any of the above stated reasons, the Agency that contracted for 8.4.2 public works project may petition the Director of the Office of Management and Budge for Suspension or Debarment of the Contractor. The Agency shall send a copy to the Contractor within three (3) working days of filing with the Director. concludes that the petition has merit, the Director shall schedule and ne arina to determine whether to suspend the Contractor, debar the Contractor or deny the petition. The Agency shall have the burden of proving, by a preponderang e of the evidence, that the Contractor failed to perform or complete the public works pro ect within the time schedule established by the Agency and failed to do so for the or more of the following reasons: a) failure to supply the adequate labor supply ratio for the project; b) inadequate financial resources; or, c) poor performance on the project. Upon a finding in favor of the Agency, the Director may suspend a Contractor from Bidding on any project funded, in whole or in part, with public funds for up to 1 year for a first offense, up to 3 years for a second offense and permanently debar the Contractor for a third offense. The Director shall issue a written decision and shall send a copy to the Contractor and the Agency. Such decision may be appealed to the Superior Court within thirty (30) days for a review on the record."

8.5 RETAINAGE

- 8.5.1 Per Section 6962(d)(5) a.3, Title 29, Delaware Code: The Agency may at the beginning of each public works project establish a time schedule for the completion of the project. If the project is delayed beyond the completion date due to the Contractor's failure to meet their responsibilities, the Agency may forfeit, at its discretion, all or part of the Contractor's retainage.
- This forfeiture of retainage also applies to the timely completion of the punchlist. A punchlist will only be prepared upon the mutual agreement of the Owner, Architect and Contractor. Once the punchlist is prepared, all three parties will by mutual agreement, establish a schedule for its completion. Should completion of the punchlist be delayed beyond the established date due to the Contractor's failure to meet their responsibilities, the Agency may hold permanently, at its discretion, all or part of the Contractor's retainage.

ARTICLE 97 PAYMENTS AND COMPLETION

.1 APPLICATION FOR PAYMENT

- Applications for payment shall be made upon AIA Document G702. There will be a five percent (5%) retainage on all Contractor's monthly invoices until completion of the project. This retainage may become payable upon receipt of all required closeout documentation, provided all other requirements of the Contract Documents have been met.
- A date will be fixed for the taking of the monthly account of work done. Upon receipt of Contractor's itemized application for payment, such application will be audited, modified, if found necessary, and approved for the amount. Statement shall be submitted to the Owner.

R G ARCHITECTS, LLC

19039

GENERAL REQUIREMENTS

00 81 13 - 9



9.1.3

	annum beginning thirty (30) days after the "presentment" (as opposed to the date) of the invoice.
9.2	PARTIAL PAYMENTS
9.2.1	Any public works Contract executed by any Agency may provide for partial payments at the option of the Owner with respect to materials placed along or upon the sites or stored at secured locations, which are suitable for use in the performance of the contract.
9.2.2	When approved by the agency, partial payment may include the values of tested and acceptable materials of a nonperishable or noncontaminative nature which have been produced or furnished for incorporation as a permanent part of the work yet to be completed, provided acceptable provisions have been made for storage.
9.2.2.1	Any allowance made for materials on hand will not exceed the delivered cost of the materials as verified by invoices furnished by the Contractor, nor will it exceed the contract bid price for the material complete in place.
9.2.3	If requested by the Agency, receipted bills from all Contractors, Subcontractors, and material, men, etc., for the previous payment must accompany each application for payment. Following such a request, no payment will be made until these receipted bills have been received by the Owner.
9.3	SUBSTANTIAL COMPLETION
9.3.1	When the building has been made suitable for occupancy, but still requires small items of miscellaneous work, the Owner will determine the date when the project has been substantially completed.
9.3.2	If, after the Work has been substantially completed, full completion thereof is materially delayed through no fault of the Contractor, and without terminating the Contract, the Owner may make payment of the balance due for the portion of the Work fully completed and accepted. Such payment shall be made under the terms and conditions governing final payment that it shall not constitute a waiver of claims.
9.3.3	On projects where commissioning is included, the commissioning work as defined in the specifications must be complete prior to the issuance of substantial completion.
9.4	FINAL PAYMENT
9.4.1	Fina payment, including the five percent (5%) retainage if determined appropriate, shall be made within thirty (30) days after the Work is fully completed and the Contract fully performed and provided that the Contractor has submitted the following closeout documentation (in addition to any other documentation required elsewhere in the Contract Documents):
9.4.1.1	Evidence satisfactory to the Owner that all payrolls, material bills, and other indebtedness connected with the work have been paid,
9.4.1.2	An acceptable RELEASE OF LIENS,
9.4.1.3	Copies of all applicable warranties,
9.4.1.4	As-built drawings,

Section 6516, Title 29 of the Delaware Code annualized interest is not to exceed 12% per

GENERAL REQUIREMENTS R G ARCHITECTS, LLC 00 81 13 - 10 19039

- 9.4.1.5 Operations and Maintenance Manuals,
- 9.4.1.6 Instruction Manuals,
- 9.4.1.7 Consent of Surety to final payment.
- 9.4.1.8 The Owner reserves the right to retain payments, or parts thereof, for its protection until the foregoing conditions have been complied with, defective work corrected and unsatisfactory conditions remedied.

ARTICLE 10: PROTECTION OF PERSONS AND PROPERTY

- The Contractor shall be responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the performance of the Contract. The Contractor shall take all reasonable precautions to prevent damage injury or loss to: workers, persons nearby who may be affected, the Work, materials and equipment to be incorporated, and existing property at the site or adjacent thereto. The Contractor shall give notices and comply with applicable laws ordinances, rules regulations, and lawful orders of public authorities bearing on the safety of persons and property and their protection from injury, damage, or loss. The Contractor shall promptly remedy damage and loss to property at the site caused in whole or in part by the Contractor a Subcontractor, or anyone directly or indirectly employed by any of them, or by anyone for whose acts they may be liable.
- The Contractor shall notify the Owner in the event any existing hazardous material such as lead, PCBs, asbestos, etc. is encountered on the project. The Owner will arrange with a qualified specialist for the identification, testing, removal, handling and protection against exposure or environmental pollution, to comply with applicable regulation laws and ordinances. The Contractor and Architect will not be required to participate in or to perform this operation. Upon completion of this work, the Owner will notify the Contractor and Architect in writing the area has been cleared and approved by the authorities in order for the work to proceed. The Contractor shall attach documentation from the authorities of said approval.
- As required in the Hazardous Chemical Information Act of June 1984, all vendors supplying any materials that may be defined as hazardous, must provide Material Safety Data Sheets for those products. Any chemical product should be considered hazardous if it has a warning cautton on the label relating to a potential physical or health hazard, if it is known to be present in the work place, and if employees may be exposed under normal conditions or in any foreseeable emergency situation. Material Safety Data Sheets must be provided directly to the Owner along with the shipping slips that include those products.
- The Contractor shall certify to the Owner that materials incorporated into the Work are free of all asbestos. This certification may be in the form of Material Safety Data Sheet (MSDS) provided by the product manufacturer for the materials used in construction, as specified or as provided by the Contractor.

ARTICLE 11: INSURANCE AND BONDS

The Contractor shall carry all insurance required by law, such as Unemployment Insurance, etc. The Contractor shall carry such insurance coverage as they desire on their own property such as a field office, storage sheds or other structures erected upon the project site that belong to them and for their own use. The Subcontractors involved with this project shall carry whatever insurance protection they consider necessary to cover the loss of any of their personal property, etc.

R G ARCHITECTS, LLC 19039

- Upon being awarded the Contract, the Contractor shall obtain a minimum of two (2) copies of all required insurance certificates called for herein, and submit one (1) copy of each certificate, to the Owner, within 20 days of contract award.
- Bodily Injury Liability and Property Damage Liability Insurance shall, in addition to the coverage included herein, include coverage for injury to or destruction of any property arising out of the collapse of or structural injury to any building or structure due to demolition work and evidence of these coverages shall be filed with and approved by the Owner.
- The Contractor's Property Damage Liability Insurance shall, in addition to the coverage noted herein, include coverage on all real and personal property in their care, custody and control damaged in any way by the Contractor or their Subcontractors during the entire construction period on this project.
- Builders Risk (including Standard Extended Coverage Insurance) on the existing building during the entire construction period, may be provided by the Confractor under this contract. The Owner shall insure the existing building and all of its contents and all this new alteration work under this contract during entire construction period for the full insurable value of the entire work at the site. Note, however, that the Contractor and their Subcontractors shall be responsible for insuring building materials (installed and stored) and their tools and equipment whenever in use on the project, against fire damage, theft, vandalism, etc.
- 11.6 Certificates of the insurance company or companies stating the amount and type of coverage, terms of policies, etc., shall be furnished to the Owner, within 20 days of contract award.
- The Contractor shall, at their own expense. In addition to the above) carry the following forms of insurance:

11.7.1 Contractor's Contractual Liability Insurance

Minimum coverage to be:

Bodily Injury	\$500,000	for each person
	\$1,000,000	for each occurrence
6	\$1,000,000	aggregate
Property Damage	\$500,000	for each occurrence
	\$1,000,000	aggregate

11.7.2 Contractor's Protective Liability Insurance

Minimum coverage to be:

Bodily Injury

Dodny mjary	\$1,000,000 \$1,000,000	for each occurrence aggregate
Property Damage	\$500,000 \$500,000	for each occurrence aggregate

\$500,000

GENERAL REQUIREMENTS 00 81 13 - 12 for each person

11.7.3 Automobile Liability Insurance

Minimum coverage to be:

Bodily Injury	\$1,000,000	for each person
	\$1,000,000	for each occurrence
Property Damage	\$500.000	per accident

- 11.7.4 Prime Contractor's and Subcontractors' policies shall include contingent and contractual liability coverage in the same minimum amounts as 11.7.1 above.
- 11.7.5 Workmen's Compensation (including Employer's Liability):
- 11.7.5.1 Minimum Limit on employer's liability to be as required by law.
- 11.7.5.2 Minimum Limit for all employees working at one site.
- 11.7.6 Certificates of Insurance must be filed with the Owner <u>guaranteeing</u> titteen (15) days prior notice of cancellation, non-renewal, or any change in coverages and limits of liability shown as included on certificates.
- 11.7.7 <u>Social Security Liability</u>
- With respect to all persons at any time employed by or on the payroll of the Contractor or performing any work for or on their behalf, or in connection with or arising out of the Contractor's business, the Contractor shall accept full and exclusive liability for the payment of any and all contributions or taxes or unemployment insurance, or old age retirement benefits, pensions or annuities now or hereafter imposed by the Government of the United States and the State or political subdivision thereof, whether the same be measured by wages, salaries or other remuneration paid to such persons or otherwise.
- 11.7.7.2 Upon request, the Contractor shall furnish Owner such information on payrolls or employment records as may be necessary to enable it to fully comply with the law imposing the aforesaid contributions of taxes.
- 11.7.7.3 If the Owner is required by law to and does pay any and/or all of the aforesaid contributions or taxes, the Contractor shall forthwith reimburse the Owner for the entire amount so paid by the Owner.

ARTICLE 12: UNCOVERING AND CORRECTION OF WORK

The Contractor shall promptly correct Work rejected by the Owner or failing to conform to the requirements of the Contract Documents, whether observed before or after Substantial Completion and whether or not fabricated, installed or completed, and shall correct any Work found to be not in accordance with the requirements of the Contract Documents within a period of two years from the date of Substantial Completion, or by terms of an applicable special warranty required by the Contract Documents. The provisions of this Article apply to work done by Subcontractors as well as to Work done by direct employees of the Contractor.

At any time during the progress of the work, or in any case where the nature of the defects shall be such that it is not expedient to have them corrected, the Owner, at their option, shall have the right to deduct such sum, or sums, of money from the amount of the contract as they consider justified to adjust the difference in value between the defective work and that required under contract including any damage to the structure.

R G ARCHITECTS, LLC 19039

12.1

ARTICLE 13: MISCELLANEOUS PROVISIONS

13.1 CUTTING AND PATCHING

13.1.1 The Contractor shall be responsible for all cutting and patching. The Contractor shall coordinate the work of the various trades involved.

13.2 DIMENSIONS

All dimensions shown shall be verified by the Contractor by actual measurements at the project site. Any discrepancies between the drawings and specifications and the existing conditions shall be referred to the Owner for adjustment before any work affected thereby has been performed.

13.3 LABORATORY TESTS

- Any specified laboratory tests of material and finished articles to be incorporated in the work shall be made by bureaus, laboratories or agencies approved by the Owner and reports of such tests shall be submitted to the Owner. The cost of the testing shall be paid for by the Contractor.
- The Contractor shall furnish all sample materials required for these tests and shall deliver same without charge to the testing laboratory or other designated agency when and where directed by the Owner.

13.4 ARCHAEOLOGICAL EVIDENCE

Whenever, in the course of construction, any archaeological evidence is encountered on the surface or below the surface of the ground, the Contractor shall notify the authorities of the State Historic Preservation Office and suspend work in the immediate area for a reasonable time to permit those authorities, or persons designated by them, to examine the area and ensure the proper removal of the archaeological evidence for suitable preservation by the Division of Historical and Cultural Affairs.

13.5 GLASS REPLACEMENT AND CLEANING

The General Contractor shall replace without expense to the Owner all glass broken during the construction of the project. If job conditions warrant, at completion of the job the General Contractor shall have all glass cleaned and polished.

13.6 WARRANTY

13.6.1

date of final acceptance of the work, the contractor warrants that work performed under this contract conforms to the contract requirements and is free of any defect of equipment, material or workmanship performed by the contractor or any of his subcontractors or suppliers. However, manufacturer's warranties and guarantees, if for a period longer than two (2) years, shall take precedence over the above warranties. The contractor shall remedy, at his own expense, any such failure to conform or any such defect. The protection of this warranty shall be included in the Contractor's Performance Bond.

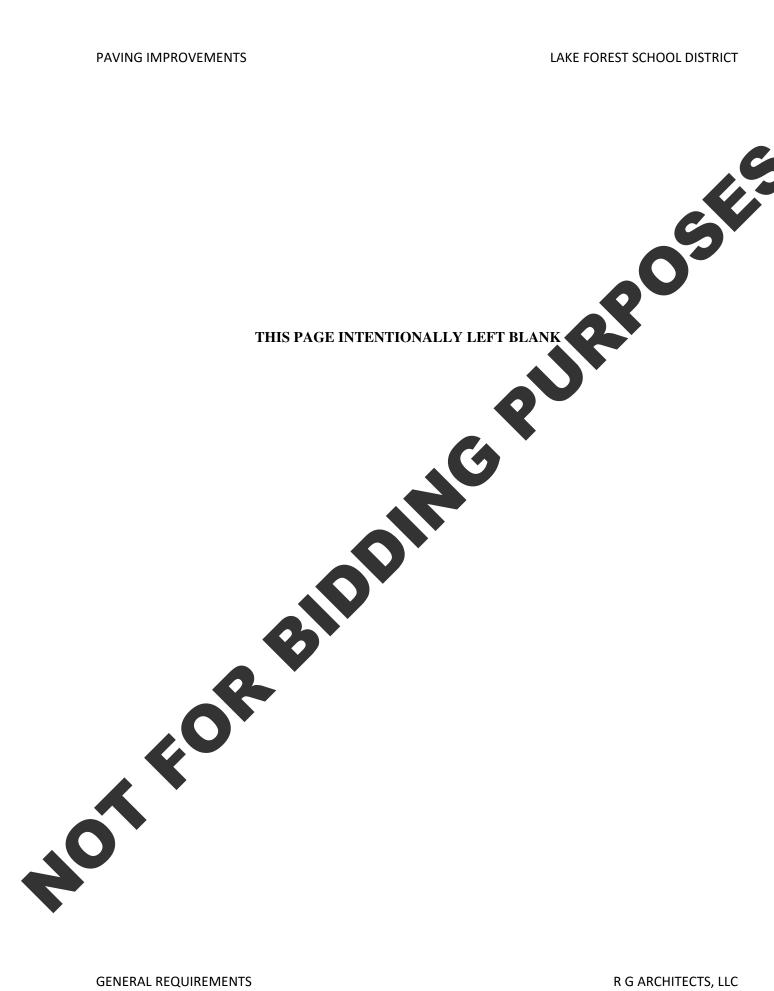
ARTICLE 14: TERMINATION OF CONTRACT

GENERAL REQUIREMENTS R G ARCHITECTS, LLC 00 81 13 - 14 19039

- If the Contractor defaults or persistently fails or neglects to carry out the Work in accordance with the Contract Documents or fails to perform a provision of the Contract, the Owner, after seven days written notice to the Contractor, may make good such deficiencies and may deduct the cost thereof from the payment then or thereafter due the Contractor. Alternatively, at the Owner's option, and the Owner may terminate the Contract and take possession of the site and of all materials, equipment, tools, and machinery thereon owned by the Contractor and may finish the Work by whatever method the Owner may deem expedient. If the costs of finishing the Work exceed any unpaid compensation due the Contractor, the Contractor shall pay the difference to the Owner.
- "If the continuation of this Agreement is contingent upon the appropriation of adequate state, or federal funds, this Agreement may be terminated on the date beginning on the first fiscal year for which funds are not appropriated or at the exhaustion of the appropriation. The Owner may terminate this Agreement by providing written notice to the parties of such non-appropriation. All payment obligations of the Owner will cease upon the date of termination. Notwithstanding the foregoing, the Owner agrees that it will use its best efforts to obtain approval of necessary funds to continue the Agreement by taking appropriate action to request adequate funds to continue the Agreement."

END OF SECTION 00.81 13

R G ARCHITECTS, LLC 19039



DRUG TESTING FORMS

The Office of Management and Budget (OMB) has developed the 4014 regulations as part of the Delawace Code that requires Contractors and Subcontractors to implement a program of mandatory drug testing for Employees who work on Large Public Works Contracts funded all or in part with public funds pursuant to 29 Del.C. §6908(a)(6). The regulations establish the mechanism, standards and requirements of a Mandatory Drug Testing Program that will be incorporated by reference into this Contract awarded pursuant to 29 Del.C. §6962. Sample copies of Testing Report Forms maintained and/or submitted pursuant to the requirements of 4101 regulations for this Project are included herewith.



SECTION 00 81 14

EMPLOYEE DRUG TESTING REPORT FORM Period Ending:

4104 Regulations for the Drug Testing of Contractor and Subcontractor Employees Working on Large Public Works Projects requires that Contractors and Subcontractors who work on Large Public Works Contracts funded all or in part with public funds maintain testing data that includes but is not to the data elements below.

Project Number:	
Project Name:	
Contractor/Subcontractor Name:	
Contractor/Subcontractor Address: _	
- -	
Number of employees who worked on	the jobsite during the report period:
Number of employees subject to rando	om testing during the report period:
Number of Negative Results	Number of Positive Results
Action taken on employee(s) in respon	ise to a failed or positive random test:
<u>O</u>	•
Date:	

This form is not required to be submitted to the Owner. Included as a reference to show information required to be maintained by the Contractor. The Owner shall have the right to periodically audit all Contractor and Subcontractor test results at the Contractor's or Subcontractor's offices (or by other means to make the data available for inspection by the Owner).

EMPLOYEE DRUG TESTING REPORT OF POSITIVE RESULTS

4104 Regulations for the Drug Testing of Contractor and Subcontractor Employees Working on Large Public Works Projects requires that Contractors and Subcontractors who work on Large Public Works Contracts funded all or in part with public funds to notify the Owner in writing of a positive random drug test.

Project Number:	
Project Name:	
Contractor/Subcontractor Name:	
Contractor/Subcontractor Address:	
Name of employee with positive test	result:
Last 4 digits of employee SSN:	
Date test results received:	
Action taken on employee in response	e to a positive test result:
6	
Authorized Representative of Contract	etor/Subcontractor:
	(typed or printed)
Authorized Representative of Contract	ctor/Subcontractor:
	(signature)
Date:	

This form shall be sent by mail to the Owner within 24 hours of receipt of test results.

Enclose this test results form in a sealed envelope with the notation "Drug Testing Form – DO NOT OPEN" on the face thereof and place in a separate mailing envelope.

SECTION 01 11 00

SUMMARY OF WORK

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Work covered by the Contract Documents.
 - 2. Type of the Contract.
 - 3. Use of premises.
 - 4. Owner's occupancy requirements.
 - 5. Work restrictions.
 - 6. Specification formats and conventions.
- B. Related Sections include the following
 - 1. Division 01 Section 01 50 00 "Temporary Facilities and Controls" for limitations and procedures governing temporary use of Owner's facilities.

1.3 WORK COVERED BY CONTRACT DOCUMENTS

Project Identification: **MAKE FROEST SCHOOL DISTRICT – PAVING IMPROVEMENTS**

Project Location: LAKE FOREST HIGH SCHOOL – 5423 KILLENS POND ROAD, FELTON, DE, EAST ELEMENTARY SCHOOL, 124 FRONT STREET, FREDERICA, DE & NEL AWARE EARLY CHILDHOOD CENTER, 100 WEST MISPILLION STREET, FRARRINGTON, DE

Owner: State of Delaware, Department of Correction.

- 1. Owner's Representative: *Karl Stahre*, Lake Forest School District Supervisor, Buildings and Grounds
- B. Architect: R G Architects LLC., 200 West Main Street, Middletown, DE 19709

R G ARCHITECTS, LLC

19039

SUMMARY OF WORK

01 11 00 - 1

C. The Work consists of the following:

The project consists of paving resurfacing of the existing parking lot & drive aisles at Lake Forest High School, East Elementary School & Delaware Early Childhood Center. Work also consists of misc. patch & repair of existing parking lot & drive aisles.

1.4 TYPE OF CONTRACT

A. Project will be constructed under a single prime contract.

1.5 USE OF PREMISES

- A. Use of Site: Limit use of premises to work in areas indicated. Do not disturb portions of the project site beyond areas in which the Work is indicated.
 - 1. Anticipated Schedule: <u>It is anticipated that the physical work on site shall begin and conclude in approximately 20 weeks.</u>
 - 2. Owner Occupancy: Allow for Owner occupancy of Project site and use by the public.
 - 3. Driveways and Entrances: Keep driveways, loading areas, and entrances serving premises clear and available to Owner, Owner's employees, and emergency vehicles at all times. Do not use these areas for parking or storage of materials.
 - a. Schedule deliveries to minimize use of driveways and entrances.
 - b. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.

1.6 OWNER'S OCCUPANCY REQUIREMENTS

- A. Partial Owner Occupancy: Owner will occupy the premises during entire construction period, with the exception of areas under construction. Cooperate with Owner during construction operations to minimize conflicts and facilitate Owner usage.
 - 1. Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities. Do not close or obstruct walkways, corridors, or other occupied or used facilities without written permission from Owner and authorities having jurisdiction.
 - 2. Provide not less than 72 hours' notice to Owner of activities that will affect Owner's operations.
- Owner Occupancy of Completed Areas of Construction: Owner reserves the right to occupy and to place and install equipment in completed areas of site, before Substantial Completion, provided such occupancy does not interfere with completion of the Work. Such placement of equipment and partial occupancy shall not constitute acceptance of the total Work.
 - 1. Architect will prepare a Certificate of Substantial Completion for each specific portion of the Work to be occupied before Owner occupancy.
 - 2. Obtain a Certificate of Occupancy from authorities having jurisdiction before Owner occupancy.

SUMMARY OF WORK R G ARCHITECTS, LLC 01 11 00 - 2 19039

3. On occupancy, Owner will assume responsibility for maintenance and custodial service for occupied portions of site.

1.7 WORK RESTRICTIONS

- A. On-Site Work Hours: Work shall be generally performed from outside the existing buildings during normal business working hours of 7:00 a.m. to 3:30 p.m., Monday through Friday, except for otherwise indicated. Refer 01 35 53 for additional information.
- B. Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary utility services according to requirements indicated:
 - 1. Notify Owner not less than two days in advance of proposed utility interruptions.
 - 2. Do not proceed with utility interruptions without Owner's written permission.

1.8 SPECIFICATION FORMATS AND CONVENTIONS

- A. Specification Format: The Specifications are organized into Divisions and Sections using the 50-division format and CSI/CSC's "MasterFormat" numbering system.
 - 1. Division 01: Sections in Division 01 govern the execution of the Work of all Sections in the Specifications.
- B. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
 - 1. Abbreviated Language: Language used in the Specifications and other Contract Documents is abbreviated. Words and meanings shall be interpreted as appropriate. Words implied, but not stated, shall be inferred as the sense requires. Singular words shall be interpreted as plural, and plural words shall be interpreted as singular where applicable as the context of the Contract Documents indicates.
 - 2. Imperative mood and streamlined language are generally used in the Specifications.

 Requirements expressed in the imperative mood are to be performed by Contractor.

 Occasionally, the indicative or subjunctive mood may be used in the Section Text for clarity to describe responsibilities that must be fulfilled indirectly by Contractor or by others when so noted
 - The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 01 11 00

R G ARCHITECTS, LLC

19039

SUMMARY OF WORK

01 11 00 - 3

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SECTION 01 21 00

ALLOWANCES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

Drawings and general provisions of the Contract, including General and Supplementary A. ntary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 **SUMMARY**

- This Section includes administrative and procedural requirements governing allowances. A.
 - 1. Certain items are specified in the Contract Documents by allowances. Allowances have been established in lieu of additional requirements and to defer selection of actual materials and equipment to a later date when additional information is available for evaluation. If necessary, additional requirements will be assued by Change Order.
 - Any unused monies of the allowance shall be returned to the owner via a credit 2. change order at the end of the project, and will be reflected in the final application for payment.
- B. Types of allowances include the fo
 - 1. Lump-sum all
- C. Related Sections include the following:
 - or 01 Section 01 26 00 "Contract Modification Procedures" for procedures for 1. mitting and handling Change Orders for allowances.
 - on 01 Section 01 40 00 "Quality Requirements" for procedures governing the use of inces for testing and inspecting.
 - Divisions 02 through 49 Sections for items of Work covered by allowances.

SELECTION AND PURCHASE

- At the earliest practical date after award of the Contract, advise Architect of the date when final selection and purchase of each product or system described by an allowance must be completed to avoid delaying the Work.
- B. At Architect's request, obtain proposals for each allowance for use in making final selections. Include recommendations that are relevant to performing the Work.

R G ARCHITECTS, LLC **ALLOWANCES** 19039 01 21 00 - 1 C. Purchase products and systems selected by Architect from the designated supplier.

1.4 SUBMITTALS

- A. Submit proposals for purchase of products or systems included in allowances, in the form specific for Change Orders.
- B. Submit invoices or delivery slips to show actual quantities of materials delivered to the site for use in fulfillment of each allowance.
- C. Coordinate and process submittals for allowance items in same manner as for other portions of the Work.

1.5 COORDINATION

A. Coordinate allowance items with other portions of the Work. Furnish templates as required to coordinate installation.

1.6 LUMP-SUM ALLOWANCES

- A. Allowance shall include cost to Contractor of specific products and materials ordered by Owner under allowance and shall include taxes, freight, and delivery to Project site.
- B. Contractor's costs for receiving and handling at Project site, labor, installation, overhead and profit, and similar costs related to products and materials ordered by Owner under allowance shall be included as part of the Contract Sum and hor part of the allowance.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine products covered by an allowance promptly on delivery for damage or defects. Return damaged or defective products to manufacturer for replacement.

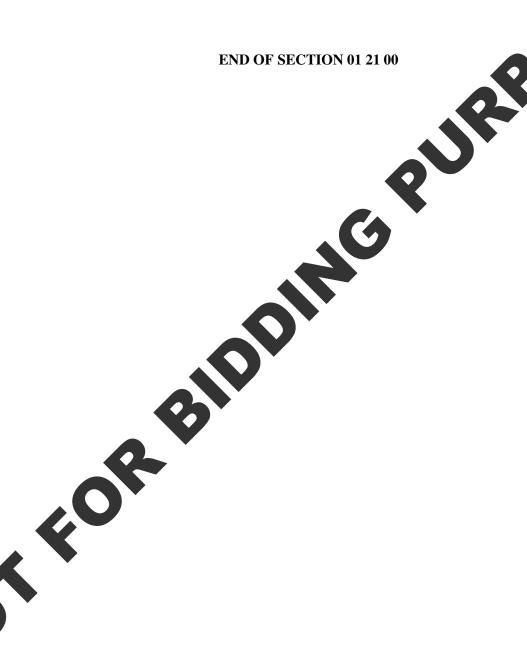
3.2 PREPARATION

A Coordinate materials and their installation for each allowance with related materials and installations to ensure that each allowance item is completely integrated and interfaced with related work.

ALLOWANCES R G ARCHITECTS, LLC 01 21 00 - 2 19039

3.3 SCHEDULE OF ALLOWANCES

A. Allowance No. 1: Include an allowance entitled "General Owner's Allowance", in the amount of \$10,000. This allowance will be utilized by the owner for owner-elected changes to the work. Any or all unused allowance monies shall be returned to the owner via a credit change order at the end of the project. This allowance shall be carried as an individual line-item on the Applications for Payment.



R G ARCHITECTS, LLC
19039
ALLOWANCES
01 21 00 - 3

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SECTION 01 23 00

ALTERNATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section

1.2 SUMMARY

A. This Section includes administrative and procedural requirements for alternates.

1.3 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Brd Form for certain work defined in the Bidding Requirements that may be added to or deducted from the Base Bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
 - 1. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

1.4 PROCEDURES

- A. Coordination: Modify or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
 - 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- B. Notification. Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated modifications to alternates.
- C. Execute accepted alternates under the same conditions as other work of the Contract.
- D. Schedule: A Schedule of Alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

R G ARCHITECTS, LLC

19039

ALTERNATES

01 23 00 - 1

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

Alternate No. 1: All new paving work at Delaware Early Childhood Center as shown or A. A FOR BIDDING contract documents.

SECTION 01 25 00

SUBSTITUTION PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Requests for substitution must be made ten days prior to bid. This specification section applies to extra-ordinary conditions that could not be requested during the bidding period.
- B. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes administrative and procedural requirements for handling requests for substitutions made after award of the Contract, but no later than 60 days after commencement of the Work.
- B. Related Sections: The following Divisions contain requirements that relate to this Section:
 - 1. Division 01 Section 01 32 00 "Construction Progress Documentation" for administrative requirements governing preparation and submittal of Contractor's Construction Schedule and Submittals Schedule.
 - 2. Division 01 Section 01 40 00 "Quality Requirements" specifies requirements governing the Contractor's selection of products and product options.

1.3 DEFINITIONS

- A. Definitions in this Article do not change or modify the meaning of other terms used in the Contract Documents.
- B. Substitutions: Changes in products, materials, equipment, and methods of construction required by the Contract Documents proposed by the Contractor after award of the Contract are considered to be requests for substitutions. The following are not considered to be requests for substitutions:
 - Substitutions requested during the bidding period, and accepted by Addendum prior to award of the Contract, are included in the Contract Documents and are not subject to requirements specified in this Section for substitutions.
 - 2. Revisions to the Contract Documents requested by the Owner or Architect.
 - 3. Specified options of products and construction methods included in the Contract Documents.
 - 4. The Contractor's determination of and compliance with governing regulations and orders issued by governing authorities.

1.4 SUBMITTALS

A. Substitution Request Submittal: The Architect will consider requests for substitution if received within 60 days after commencement of the Work (Item 1.1, A. above). Requests received more

R G ARCHITECTS, LLC 19039 than 60 days after commencement of the Work may be considered or rejected at the discretion of the Architect.

- 1. Submit three copies of each request for substitution for consideration. Submit requests in the form and according to procedures required for change-order proposals. The Contractor is solely responsible for obtaining the required forms to submit before the stated time period expires.
- 2. Identify the product or the fabrication or installation method to be replaced in each requesting related Specification Section and Drawing numbers.
- 3. Provide complete documentation showing compliance with the requirements for substitutions, and the following information, as appropriate:
 - a. Coordination information, including a list of changes or modifications needed to other parts of the Work and to construction performed by the Owner and separate contractors that will be necessary to accommodate the proposed substitution.
 - b. A detailed comparison of significant qualities of the proposed substitution with those of the Work specified. Significant qualities may include elements, such as performance, weight, size, durability, and visual effect.
 - c. Product Data, including Drawings and descriptions of products and fabrication and installation procedures.
 - d. Samples, where applicable or requested.
 - e. A statement indicating the substitution's effect on the Contractor's Construction Schedule compared to the schedule without approval of the substitution. Indicate the effect of the proposed substitution on overall Contract Time.
 - f. Cost information, including a proposal of the net change, if any in the Contract Sum.
 - g. The Contractor's certification that the proposed substitution conforms to requirements in the Contract Documents in every respect and is appropriate for the applications indicated.
 - h. The Contractor's waiver of rights to additional payment or time that may subsequently become necessary because of the failure of the substitution to perform adequately.
- 4. Architect's Action: If necessary, the Architect will request additional information or documentation for evaluation within one week of receipt of a request for substitution. The Architect will notify the Contractor of acceptance or rejection of the substitution within two weeks of receipt of the request, or one week of receipt of additional information or documentation, whichever is later.
 - a. Use the product specified if the Architect cannot make a decision on the use of a proposed substitute within the time allocated.

PART 2 - PRODUCTS

1.5 SUBSTITUTIONS

Conditions: The Architect will receive and consider the Contractor's request for substitution when the following conditions are satisfied, as determined by the Architect. If the following conditions are not satisfied, the Architect will return the requests without action except to record noncompliance with these requirements.

- 1. Revisions to the Contract Documents are not required.
- 2. Proposed changes are in keeping with the general intent of the Contract Documents.
- 3. The request is timely, fully documented, and properly submitted.

SUBSTITUTION PROCEDURES R G ARCHITECTS, LLC 01 25 00 - 2 19039

- 4. The specified product or method of construction cannot be provided within the Contract Time. The Architect will not consider the request if the product or method cannot be provided as a result of failure to pursue the Work promptly or coordinate activities properly.
- 5. The requested substitution offers the Owner a substantial advantage, in cost, time, energy conservation, or other considerations, after deducting additional responsibilities the Owner must assume. The Owner's additional responsibilities may include compensation to the Architect for redesign and evaluation services, increased cost of other construction by the Owner, and similar considerations.
- 6. The specified product or method of construction cannot receive necessary approval by a governing authority, and the requested substitution can be approved.
- 7. The specified product or method of construction cannot be provided in a manner that is compatible with other materials and where the Contractor certifies that the substitution will overcome the incompatibility.
- 8. The specified product or method of construction cannot be coordinated with other materials and where the Contractor certifies that the proposed substitution can be coordinated.
- B. The Contractor's submittal and the Architect's acceptance of Shop Drawings, Product Data, or Samples for construction activities not complying with the Contract Documents do not constitute an acceptable or valid request for substitution, nor do they constitute approval.

PART 3 - EXECUTION (Not Used)

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SECTION 01 26 00

CONTRACT MODIFICATION PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section specifies administrative and procedural requirements for handling and processing Contract modifications.
- B. Related Sections include the following:
 - 1. Division 01 Section 01 60 00 "Product Requirements" for administrative procedures for handling requests for substitutions made after Contract award.

1.3 MINOR CHANGES IN THE WORK

A. Architect will issue supplemental instructions authorizing Minor Changes in the Work, not involving adjustment to the Contract Sum or the Contract Time, on AIA Document G710, "Architect's Supplemental Instructions."

1.4 PROPOSAL REQUESTS

- A. Owner-Initiated Proposal Requests: Architect will issue a detailed description of proposed changes in the Work that may require adjustment to the Contract Sum or the Contract Time. If necessary, the description will include supplemental or revised Drawings and Specifications.
 - 1. Proposal Requests issued by Architect are for information only. Do not consider them instructions either to stop work in progress or to execute the proposed change. Within time specified in Proposal Request, but no more than 20 days after receipt of Proposal Request, submit a quotation estimating cost adjustments to the Contract Sum and the Contract Time necessary to execute the change.
 - a. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.
 - b. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
 - c. Include costs of labor and supervision directly attributable to the change.
 - d. Include an updated Contractor's Construction Schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and finish

R G ARCHITECTS, LLC 19039

times, and activity relationship. Use available total float before requesting an extension of the Contract Time.

- B. Contractor-Initiated Proposals: If latent or unforeseen conditions require modifications to the Contract, Contractor may propose changes by submitting a request for a change to Architect.
 - 1. Include a statement outlining reasons for the change and the effect of the change on the Work. Provide a complete description of the proposed change. Indicate the effect of proposed change on the Contract Sum and the Contract Time.
 - 2. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.
 - 3. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
 - 4. Include costs of labor and supervision directly attributable to the change.
 - 5. Include an updated Contractor's Construction Schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.
 - 6. Comply with requirements in Division 01 Section "Product Requirements" if the proposed change requires substitution of one product or system for product or system specified.
- C. Proposal Request Form: Use AIA Document G709 for Proposal Requests.

1.5 CHANGE ORDER PROCEDURES

A. On Owner's approval of a Proposal Request, Architect will issue a Change Order for signatures of Owner and Contractor on AIA Document C701.

1.6 CONSTRUCTION CHANGE DIRECTIVE

- A. Construction Change Directive: Architect may issue a Construction Change Directive on AIA Document 6714. Construction Change Directive instructs Contractor to proceed with a change in the Work, for subsequent inclusion in a Change Order.
 - 1. Construction Change Directive contains a complete description of change in the Work. It also designates method to be followed to determine change in the Contract Sum or the Contract Time.
- B. Documentation: Maintain detailed records on a time and material basis of work required by the Construction Change Directive.
 - 1. After completion of change, submit an itemized account and supporting data necessary to substantiate cost and time adjustments to the Contract.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

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SECTION 01 29 00

PAYMENT PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section specifies administrative and procedural requirements necessary to prepare and process Applications for Payment.
- B. Related Sections include the following:
 - 1. Division 01 Section 01 26 00 "Contract Modification Procedures" for administrative procedures for handling changes to the Contract.
 - 2. Division 01 Section 01 32 00 "Construction Progress Documentation" for administrative requirements governing preparation and submittal of Contractor's Construction Schedule and Submittals Schedule.

1.3 SCHEDULE OF VALUES

- A. Coordination: Coordinate preparation of the Schedule of Values with preparation of Contractor's Construction Schedule
 - 1. Correlate line items in the Schedule of Values with other required administrative forms and schedules, including the following:
 - a. Application for Payment forms with Continuation Sheets.
 - Submittals Schedule.
 - c. Contractor's Construction Schedule.
 - 2. Submit the Schedule of Values to Architect at earliest possible date but no later than seven days before the date scheduled for submittal of initial Applications for Payment.
- B. Format and Content: Use the Project Manual table of contents as a guide to establish line items for the Schedule of Values. Provide at least one line item for each Specification Section.
 - 1. Identification: Include the following Project identification on the Schedule of Values:
 - a. Project name and location.
 - b. Name of Architect.

R G ARCHITECTS, LLC PAYMENT PROCEDURES 19039 01 29 00 - 1

- c. Architect's project number.
- d. Contractor's name and address.
- e. Date of submittal.
- 2. Submit draft of AIA Document G703 Continuation Sheets.
- 3. Provide a breakdown of the Contract Sum in enough detail to facilitate continued evaluation of Applications for Payment and progress reports. Coordinate with the Project Manual table of contents. Provide several line items for principal subcontract amounts, where appropriate. Include separate line items under required principal subcontracts for operation and maintenance manuals, punch list activities, Project Record Documents, and demonstration and training in the amount of 5 percent of the Contract Sum.
- 4. Round amounts to nearest whole dollar; total shall equal the Contract Sum
- 5. Provide a separate line item in the Schedule of Values for each part of the Work where Applications for Payment may include materials or equipment purchased or fabricated and stored, but not yet installed.
 - a. Differentiate between items stored on-site and items stored off site. If specified include evidence of insurance or bonded warehousing.
- 6. Provide separate line items in the Schedule of Values for initial cost of materials, for each subsequent stage of completion, and for total installed value of that part of the Work.
- 7. Each item in the Schedule of Values and Applications for Payment shall be complete. Include total cost and proportionate share of general overhead and profit for each item.
 - a. Temporary facilities and other major cost items that are not direct cost of actual work-in-place may be shown either as separate line items in the Schedule of Values or distributed as general overhead expense, at Contractor's option.
- 8. Schedule Updating: Update and resubmit the Schedule of Values before the next Applications for Payment when Change Orders or Construction Change Directives result in a change in the Contract Sum Include each Change Order as a new line item on the Schedule of Values.

1.4 APPLICATIONS FOR PAYMENT

- A. Each Application for Payment shall be consistent with previous applications and payments as certified by Architect and paid for by Owner.
 - 1. Pitial Application for Payment, Application for Payment at time of Substantial Completion, and final Application for Payment involve additional requirements.
- Payment Application Times: The date for each progress payment is indicated in the Agreement between Owner and Contractor. The period of construction Work covered by each Application for Payment is the period indicated in the Agreement.
- C. Payment Application Forms: Use AIA Document G702 and AIA Document G703 Continuation Sheets as form for Applications for Payment.

PAYMENT PROCEDURES R G ARCHITECTS, LLC 01 29 00 - 2 19039

- D. Application Preparation: Complete every entry on form. Notarize and execute by a person authorized to sign legal documents on behalf of Contractor. Architect will return incomplete applications without action.
 - 1. Entries shall match data on the Schedule of Values and Contractor's Construction Schedule Use updated schedules if revisions were made.
 - 2. Include amounts of Change Orders and Construction Change Directives issued before la day of construction period covered by application.
- E. Transmittal: Submit 2 signed and notarized original copies of each Application Architect by a method ensuring receipt. One copy shall include waivers of attachments if required.
 - 1. Transmit each copy with a transmittal form listing attachments and g appropriate information about application.
- Waivers of Mechanic's Lien: With each Application for Payment submi F. from every entity who is lawfully entitled to file a mechanic's lien ing out of the Contract and related to the Work covered by the payment.
 - Submit partial waivers on each item for amount requested in previous application, after 1. deduction for retainage, on each item.
 - 2. ent submit final or full waivers. When an application shows completion of an
 - Owner reserves the right to designate which entities involved in the Work must submit 3. waivers.
 - Waiver Forms: Submit waivers of lien on forms, executed in a manner acceptable to Owner. 4.
- Initial Application for Payment: Administrative actions and submittals that must precede or coincide G. with submittal of first Application for Payment include the following:
 - 1. List of subcontract
 - 2. Schedule of V
 - 3. Contractor's Construction Schedule (preliminary if not final).
 - 4. Products list.
 - Schedule of unit prices. 5.
 - Submittals Schedule (preliminary if not final). List of Contractor's staff assignments. 6.
 - 7.
 - Contractor's principal consultants.
 - s of building permits.
 - Copies of authorizations and licenses from authorities having jurisdiction for performance of the Work.
 - 11. Initial progress report.
 - 12. Report of preconstruction conference.
 - Certificates of insurance and insurance policies. 13.
 - 14. Performance and payment bonds.
 - Data needed to acquire Owner's insurance. 15.
 - Initial settlement survey and damage report if required. 16.
- H. Application for Payment at Substantial Completion: After issuing the Certificate of Substantial Completion, submit an Application for Payment showing 100 percent completion for portion of the Work claimed as substantially complete.

R G ARCHITECTS, LLC **PAYMENT PROCEDURES** 19039 01 29 00 - 3

- 1. Include documentation supporting claim that the Work is substantially complete and a statement showing an accounting of changes to the Contract Sum.
- 2. This application shall reflect Certificates of Partial Substantial Completion issued previously for Owner occupancy of designated portions of the Work.
- I. Final Payment Application: Submit final Application for Payment with releases and supporting documentation not previously submitted and accepted, including, but not limited, to the following.
 - 1. Evidence of completion of Project closeout requirements.
 - 2. Insurance certificates for products and completed operations where required and proof that taxes, fees, and similar obligations were paid.
 - 3. Updated final statement, accounting for final changes to the Contract Sum
 - 4. AIA Document G706, "Contractor's Affidavit of Payment of Debts and Claims."
 - 5. AIA Document G706A, "Contractor's Affidavit of Release of Liens."
 - 6. AIA Document G707, "Consent of Surety to Final Payment."
 - 7. Evidence that claims have been settled.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 01 29 00

SECTION 01 31 00

PROJECT MANAGEMENT AND COORDINATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes administrative provisions for coordinating construction operations on Project including, but not limited to, the following:
 - 1. Project meetings.
 - 2. Requests for Interpretation (RFIs).
- B. Related Sections include the following:
 - 1. Division 01 Section 01 32 00 "Construction Progress Documentation" for preparing and submitting Contractor's Construction Schedule.
 - 2. Division 01 Section 01 73 00 Execution" for procedures for coordinating general installation and field-engineering services, including establishment of benchmarks and control points.
 - 3. Division 01 Section 0 77 00 "Closeout Procedures" for coordinating closeout of the Contract.

1.3 COORDINATION

- A. Coordination: Each contractor shall coordinate its construction operations with those of other contractors and entities to ensure efficient and orderly installation of each part of the Work. Each contractor shall coordinate its operations with operations, included in different Sections that depend on each other for proper installation, connection, and operation.
 - Schedule construction operations in sequence required to obtain the best results where installation of one part of the Work depends on installation of other components, before or after its own installation.
 - 2. Coordinate installation of different components with other contractors to ensure maximum accessibility for required maintenance, service, and repair.
 - 3. Make adequate provisions to accommodate items scheduled for later installation.
 - 4. Where availability of space is limited, coordinate installation of different components to ensure maximum performance and accessibility for required maintenance, service, and repair of all components, including mechanical and electrical.

1.4 PROJECT MEETINGS

- A. General: Schedule and conduct meetings and conferences at Project site, unless otherwise indicated.
- В. Preconstruction Conference: Schedule a preconstruction conference before starting construction, at a time convenient to Owner and Architect, but no later than 15 days after execution of the Agreement Hold the conference at Project site or another convenient location. Conduct the meeting to review responsibilities and personnel assignments.
 - Attendees: Authorized representatives of Owner, Architect, and their consultant 1. Contractor and its superintendent; major subcontractors; suppliers; and other co parties shall attend the conference. All participants at the conference shall Project and authorized to conclude matters relating to the Work.
 - 2. Agenda: Discuss items of significance that could affect progress, inc following:
 - a. Tentative construction schedule.
 - b. Critical work sequencing and long-lead items.
 - Designation of key personnel and their duties. c.
 - d. Procedures for processing field decisions and Charge
 - Procedures for RFIs. e.
 - f. Procedures for testing and inspecting.
 - Procedures for processing Applications to g.
 - Distribution of the Contract Docume h.
 - i. Submittal procedures.
 - Preparation of Record Documents j.
 - Use of the premises. k.
 - 1. Work restrictions.
 - Owner's occupancy requirement m.
 - Responsibility for temporary facilities and control Construction waste management and recycling. facilities and controls. n.
 - o.
 - Parking availability. p.
 - Office, work, and storage areas. q.
 - Equipment deliveries and priorities. r.
 - First aid. s.

 - deaning.
 - ing hours.
 - Architect will record and distribute meeting minutes.
- Preinstallation Conferences: Conduct a preinstallation conference at Project site before each construction activity that requires coordination with other construction.
 - Attendees: Installer and representatives of manufacturers and fabricators involved in or affected by the installation and its coordination or integration with other materials and installations that have preceded or will follow, shall attend the meeting. Advise Architect of scheduled meeting dates.
- D. Progress Meetings: Conduct progress meetings at biweekly intervals.

- 1. Attendees: In addition to representatives of Owner and Architect, each contractor, subcontractor, supplier, and other entity concerned with current progress or involved in planning, coordination, or performance of future activities shall be represented at these meetings. All participants at the conference shall be familiar with Project and authorized to conclude matters relating to the Work.
- 2. Agenda: Review and correct or approve minutes of previous progress meeting. Review other items of significance that could affect progress. Include topics for discussion as appropriate to status of Project.
 - a. Contractor's Construction Schedule: Review progress since the last meeting.

 Determine whether each activity is on time, ahead of schedule, or behind schedule, in relation to Contractor's Construction Schedule. Determine how construction behind schedule will be expedited; secure commitments from parties involved to do so.

 Discuss whether schedule revisions are required to ensure that current and subsequent activities will be completed within the Contract Time.
 - 1) Review schedule for next period.
 - b. Review present and future needs of each entity present, including the following:
 - 1) Interface requirements.
 - 2) Status of submittals.
 - 3) Deliveries.
 - 4) Quality and work standard
 - 5) Status of correction of deficient items
 - 6) Field observations
 - 7) Request for Interpretations (RFIs).
 - 8) Status of proposal requests.
- 3. Minutes: Architect will record and distribute to Contractor the meeting minutes.
- E. Coordination Meetings Conduct Project coordination meetings at weekly intervals. Project coordination meetings are in addition to specific meetings held for other purposes, such as progress meetings and preinstallation conferences.
 - 1. Attendees: Each contractor, subcontractor, supplier, and other entity concerned with current progress or involved in planning, coordination, or performance of future activities shall be represented at these meetings. All participants at the conference shall be familiar with Project and authorized to conclude matters relating to the Work.
 - Agenda: Review and correct or approve minutes of the previous coordination meeting. Review other items of significance that could affect progress. Include topics for discussion as appropriate to status of Project.
 - 3. Reporting: Record meeting results and distribute copies to everyone in attendance and to others affected by decisions or actions resulting from each meeting.

1.5 REQUESTS FOR INTERPRETATION (RFIs)

A. Procedure: Upon discovery of the need for interpretation of the Contract Documents, prepare and submit an RFI form. Oral RFIs will not be accepted.

- 1. RFIs shall originate with Contractor. RFIs submitted by entities other than Contractor will be returned with no response.
- 2. RFIs shall only be submitted to seek clarification or interpretation of ambiguities, conflicts, discrepancies, errors, inconsistencies, or omissions in the Contract Documents.
- 3. RFIs shall not take the place of Contractor figuring out information available in the Contract Documents.
- 4. Each RFI shall be limited to a single issue or very closely related issue.
- 5. Coordinate and promptly submit RFIs to avoid delays in Contractor's work and work of subcontractors.
- 6. Reviews/responses to RFIs shall not constitute an approval or direction related to Contractor's construction means, methods, procedures, sequences, or techniques.
- 7. Reviews/Responses to RFIs shall not constitute an approval or direction related to construction site safety.
- B. Content of the RFI: Include a detailed, legible description of item needing interpretation and the following:
 - 1. Project name.
 - 2. Date.
 - 3. Name of Contractor.
 - 4. Name of Architect.
 - 5. RFI number, numbered sequentially.
 - 6. Specification Section number and title and cleared paragraphs, as appropriate.
 - 7. Drawing number and detail references, as appropriate.
 - 8. Field dimensions and conditions, as appropriate.
 - 9. Contractor's suggested solution(s). If Contractor's solution(s) impact the Contract Time or the Contract Sum, Contractor shall state impact in the RFI.
 - 10. Contractor's signature.
 - 11. Attachments: Include drawings descriptions, measurements, photos, Product Data, Shop Drawings, and other information necessary to fully describe items needing interpretation.
 - a. Supplementary drawings prepared by Contractor shall include dimensions, thicknesses, structural grid references, and details of affected materials, assemblies, and attachments.
- C. Architect's Action. Architect will review each RFI, determine response required, and return it within seven working days. RFIs received after 1:00 p.m. will be considered as received the following working day.
 - 1. The following RFIs will be returned without action:
 - a. Requests for approval of substitutions.
 - b. Requests for adjustments in the Contract Time or the Contract Sum.
 - c. Requests for approval of submittals.
 - d. Request for information already indicated on the Contract Documents.
 - e. Requests for interpretation of Architect's actions on submittals.
 - f. Incomplete RFIs or RFIs with numerous errors.
 - 2. RFI response may include a request for additional information, in which case Architect's time for response will start again.

PROJECT MANAGEMENT AND COORDINATION 01 31 00 - 4

- 3. RFI response that may result in a change to the Contract Time or the Contract Sum may be eligible for Contractor to submit Change Proposal according to Division 01 Section "Contract Modification Procedures."
- 4. If Contractor believes the RFI response warrants change in the Contract Time or the Contract Sum, notify Architect in writing within 7 calendar days of receipt of the RFI response.
- D. On receipt of Architect's action, update the RFI log and immediately distribute the RFI response to affected parties. Review response and notify Architect within **seven** days if Contractor disagrees with response.
- E. RFI Log: Prepare, maintain, and submit a tabular log of RFIs organized by the RFI number. Submit log monthly to the Architect.
 - 1. Project name.
 - 2. Name and address of Contractor.
 - 3. Name and address of Architect.
 - 4. RFI number including RFIs that were dropped and not submitted
 - 5. RFI description.
 - 6. Date the RFI was submitted.
 - 7. Date Architect's response was received.
 - 8. Identification of related Minor Change in the Work Construction Change Directive, and Proposal Request, as appropriate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 01 31 00



SECTION 01 32 00

CONSTRUCTION PROGRESS DOCUMENTATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes administrative and procedural requirements for documenting the progress of construction during performance of the Work, including the following:
 - 1. Preliminary Construction Schedule.
 - 2. Contractor's Construction Schedule.
 - 3. Submittals Schedule.
 - 4. Daily construction reports.
 - 5. Material location reports.
 - 6. Field condition reports.
 - 7. Special reports.

B. Related Sections include the following

- 1. Division 01 Section 01 29 00 "Payment Procedures" for submitting the Schedule of Values.
- 2. Division 01 Section 01 31 00 "Project Management and Coordination" for submitting and distributing aneeting and conference minutes.
- 3. Division 01 Section 01 33 00 "Submittal Procedures" for submitting schedules and reports.
- 4. Division 01 Section 01 40 00 "Quality Requirements" for submitting a schedule of tests and inspections.

1.3 DEFINITIONS

- A. Activity: A discrete part of a project that can be identified for planning, scheduling, monitoring, and controlling the construction project. Activities included in a construction schedule consume time and resources.
 - 1. Critical activities are activities on the critical path. They must start and finish on the planned early start and finish times.
 - 2. Predecessor Activity: An activity that precedes another activity in the network.
 - 3. Successor Activity: An activity that follows another activity in the network.

- B. Cost Loading: The allocation of the Schedule of Values for the completion of an activity as scheduled. The sum of costs for all activities must equal the total Contract Sum, unless otherwise approved by Architect.
- C. CPM: Critical path method, which is a method of planning and scheduling a construction project where activities are arranged based on activity relationships. Network calculations determine when activities can be performed and the critical path of Project.
- D. Critical Path: The longest connected chain of interdependent activities through the network schedule that establishes the minimum overall Project duration and contains no float.
- E. Event: The starting or ending point of an activity.
- F. Float: The measure of leeway in starting and completing an activity.
 - 1. Float time **belongs to Owner**.
 - 2. Free float is the amount of time an activity can be delayed without adversely affecting the early start of the successor activity.
 - 3. Total float is the measure of leeway in starting or completing an activity without adversely affecting the planned Project completion date.
- G. Fragnet: A partial or fragmentary network that breaks down activities into smaller activities for greater detail.
- H. Major Area: A story of construction, a separate building, or a similar significant construction element.
- I. Milestone: A key or critical point in time for reference or measurement.
- J. Network Diagram: A graphic diagram of a network schedule, showing activities and activity relationships.
- K. Resource Loading: The allocation of manpower and equipment necessary for the completion of an activity as scheduled.

1.4 SUBMITTALS

- A. Qualification Data: For scheduling consultant.
- B. Submittals Schedule: Submit two copies of schedule. Arrange the following information in a tabular format:
 - Scheduled date for first submittal.
 - 2. Specification Section number and title.
 - 3. Submittal category (action or informational).
 - 4. Name of subcontractor.
 - 5. Description of the Work covered.
 - 6. Scheduled date for Architect's final release or approval.
- C. Preliminary Construction Schedule: Submit **two** opaque copies.

1. Approval of cost-loaded preliminary construction schedule will not constitute approval of Schedule of Values for cost-loaded activities.

1.5 COORDINATION

- A. Coordinate preparation and processing of schedules and reports with performance of construction activities and with scheduling and reporting of separate contractors.
- B. Coordinate Contractor's Construction Schedule with the Schedule of Values, list of subcontracts, Submittals Schedule, progress reports, payment requests, and other required schedules and reports.
 - 1. Secure time commitments for performing critical elements of the Work from parties involved.
 - 2. Coordinate each construction activity in the network with other activities and schedule them in proper sequence.

PART 2 - PRODUCTS

2.1 CONTRACTOR'S CONSTRUCTION SCHEDULE, CENERAL

- A. Procedures: Comply with procedures contained in AGC's "Construction Planning & Scheduling."
- B. Time Frame: Extend schedule from date established for **commencement of the Work** to date of **Final** Completion.
 - 1. Contract completion date shall not be changed by submission of a schedule that shows an early completion date unless specifically authorized by Change Order.
- C. Activities: Treat each story or separate area as a separate numbered activity for each principal element of the Work Comply with the following:
 - 1. Activity Duration. Define activities so no activity is longer than **20** days, unless specifically allowed by Architect.
 - 2. Procurement Activities: Include procurement process activities for the following long lead terms and major items, requiring a cycle of more than 60 days, as separate activities in schedule. Procurement cycle activities include, but are not limited to, submittals, approvals, purchasing, fabrication, and delivery.
 - Submittal Review Time: Include review and resubmittal times indicated in Division 01 Section "Submittal Procedures" in schedule. Coordinate submittal review times in Contractor's Construction Schedule with Submittals Schedule.
 - 4. Substantial Completion: Indicate completion in advance of date established for Substantial Completion, and allow time for Architect's administrative procedures necessary for certification of Substantial Completion.
 - 5. Work Stages: Indicate important stages of construction for each major portion of the Work, including, but not limited to, the following:
- D. Milestones: Include milestones indicated in the Contract Documents in schedule, including, but not limited to, the Notice to Proceed, Substantial Completion, and Final Completion.

E. Contract Modifications: For each proposed contract modification and concurrent with its submission, prepare a time-impact analysis using fragnets to demonstrate the effect of the proposed change on the overall project schedule.

2.2 CONTRACTOR'S CONSTRUCTION SCHEDULE (GANTT CHART)

- Gantt-Chart Schedule: Submit a comprehensive, fully developed, horizontal Gantt-chart-var A. Contractor's Construction Schedule within 10 days of date established for the Notice of Base schedule on the Preliminary Construction Schedule and whatever updating and f received since the start of Project.
- Preparation: Indicate each significant construction activity separately. Identify fust B. orkday of each week with a continuous vertical line.

PART 3 - EXECUTION

3.1 CONTRACTOR'S CONSTRUCTION SCHEDULE

- Contractor's Construction Schedule Updating: At ty intervals, update schedule to reflect A. actual construction progress and activities. Issue sche de one day before each regularly scheduled progress meeting.
 - Revise schedule immediately after each meeting or other activity where revisions have been 1. recognized or made. Issue updated schedule concurrently with the report of each such
 - Include a report with updated schedule that indicates every change, including, but not limited 2. to, changes in logic, durations, actual starts and finishes, and activity durations.
 As the Work progresses, indicate Actual Completion percentage for each activity.
 - 3.
- B. Distribution: Distribute copies of approved schedule to Architect, Owner, separate contractors, testing and inspecting agencies, and other parties identified by Contractor with a need-to-know schedule responsibility.
 - 1. Post copies in Project meeting rooms and temporary field offices.
 - visions are made, distribute updated schedules to the same parties and post in the locations. Delete parties from distribution when they have completed their assigned ortion of the Work and are no longer involved in performance of construction activities.

END OF SECTION 01 32 00

SECTION 01 33 00

SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes administrative and procedural requirements for submitting Shop Drawings, Product Data, Samples, and other submittals.
- B. Related Sections include the following:
 - 1. Division 01 Section 01 29 00 "Payment Procedures" for submitting Applications for Payment and the Schedule of Values.
 - 2. Division 01 Section 01 31 00 "Project Management and Coordination" for submitting and distributing meeting and conference minutes and for submitting Coordination Drawings.
 - 3. Division 01 Section 01 32 00 "Construction Progress Documentation" for submitting schedules and reports, including Contractor's Construction Schedule and the Submittals Schedule.
 - 4. Division 01 Section 01 40 00 "Quality Requirements" for submitting test and inspection reports and for morkup requirements.
 - 5. Division 01 Section 01 77 00 "Closeout Procedures" for submitting warranties.
 - 6. Division 01 Section 01 78 39 "Project Record Documents" for submitting Record Drawings, Record Specifications, and Record Product Data.
 - 7. Divisions 02 through 49 Sections for specific requirements for submittals in those Sections.
 - 8. Division 00 Section 00 62 11 "Submittal Cover Sheet Form."

1.3 DEFINITIONS

- A. Action Submittals: Written and graphic information that requires Architect's responsive action.
- Informational Submittals: Written information that does not require Architect's responsive action. Submittals may be rejected for not complying with requirements.
- .4 SUBMITTAL PROCEDURES
 - A. General:

- 1. Contractor shall submit electronic version of each individual submittal to the Architect in a printable PDF format. Format of PDF sheet should be of the same size as the hard copy submittal.
 - a. Submittals that are larger than 11x17 shall be submitted via one hard copy in addition to the electronic version.
 - b. Door hardware submittals shall be submitted with one hard copy in addition to the electronic version.
- 2. Contractor will be provided access to the Architect's secured project hosting site of a personalized password protected account. This site utilizes a web browser interface that requires internet access, and an individual email account.
- 3. Contractor shall be required to complete the Architect's Electronic Project Data Request Form.
- 4. Contractor will receive the necessary and applicable documentation for the purpose of providing submittals with the project hosting site when the account information is verified and configured by the Architect.
- 5. Architect will return submittals electronically in PDF format
- 6. Contractor shall furnish one hard copy of each individual approved submittal as part of the final Operations and Maintenance Manuals.
- B. Finish Submittals: Items requiring color, pattern, and similar selections shall be of sufficient size and quantity to clearly illustrate full range of color, texture, and pattern for Architects approval. Submit samples for selection of finishes within 60 days after Award of Contract, or earlier if requested at the Preconstruction Conference. Allow 60 days for Architects review of each submittal.
- C. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.
 - 1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.
 - 2. Coordinate transmittat of different types of submittals for related parts of the Work so processing will not be delayed because of need to review submittals concurrently for coordination.
 - a. **Architect reserves** the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.
- D. Submittals Schedule: Comply with requirements in Division 01 Section "Construction Progress Documentation" for list of submittals and time requirements for scheduled performance of related construction activities.
- E. Processing Time: Allow enough time for submittal review, including time for resubmittals, as follows. Time for review shall commence on **Architect's** receipt of submittal. No extension of the contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including resubmittals.
 - 1. Initial Review: Allow **15** days for initial review of each submittal. Allow additional time if coordination with subsequent submittals is required. **Architect** will advise Contractor when a submittal being processed must be delayed for coordination.
 - 2. Intermediate Review: If intermediate submittal is necessary, process it in same manner as initial submittal.

SUBMITTAL PROCEDURES R G ARCHITECTS, LLC 01 33 00 - 2 19039

- 3. Resubmittal Review: Allow 15 days for review of each resubmittal.
- 4. Sequential Review: Where sequential review of submittals by Architect's consultants, Owner, or other parties is indicated, allow 21 days for initial review of each submittal.
- 5. Concurrent Consultant Review: Where the Contract Documents indicate that submittals m be transmitted simultaneously to Architect and to Architect's consultants, allow 15 days review of each submittal. Submittal will be returned to Architect, before being returned Contractor.
- F. Identification: Submittal Cover Sheet shall be completed and attached to each indi electronic submittals. Include Contractor's stamp with completed information. Submittals cover sheet will not be reviewed and will be returned to the Contractor.
- G. Deviations: Highlight, encircle, or otherwise specifically identify de com the Contract Documents on submittals.
- H. Transmittal: Package each submittal individually and appropriately transmittal and handling. Transmit each submittal using a transmittal form. Architect w received from sources other than Contractor.
 - Transmittal Form: Utilize the FORM PROVIDED IN THE PROJECT MANUAL, and 1. provide the following information:
 - Project name. a.
 - h. Date.
 - Destination (To:). c.
 - d. Source (From:).
 - Names of subcontractor manufacturer, and supplier. e.
 - Category and type of submittal. f.
 - Submittal purpose and description. g.
 - Specification Section number and title. h.
 - Drawing number and detail references, as appropriate. i.
 - Transmittal number, numbered consecutively. Submittal and transmittal distribution record. į.
 - k.
 - 1. narks.
 - nature of transmitter.
 - On an attached separate sheet, prepared on Contractor's letterhead, record relevant nation, requests for data, revisions other than those requested by Architect on previous submittals, and deviations from requirements in the Contract Documents, including minor variations and limitations. Include same label information as related submittal.
 - Resubmittals: Make resubmittals in same form as initial submittal.
 - Note date and content of previous submittal. 1.
 - 2. Note date and content of revision in label or title block and clearly indicate extent of revision.
- J. Distribution: Furnish copies of final submittals to manufacturers, subcontractors, suppliers, fabricators, installers, authorities having jurisdiction, and others as necessary for performance of construction activities. Show distribution on transmittal forms.

R G ARCHITECTS, LLC SUBMITTAL PROCEDURES 19039 01 33 00 - 3

1.5 CONTRACTOR'S USE OF ARCHITECT'S CAD FILES

General: At Contractor's written request, access to copies of Architect's CAD files will only be A. provided to Prime Contractors solely for the Contractor's use in connection with the Project. Access to these files will be via a web based project site hosted by the Architect, which is subject to the terms and conditions identified in the Architect's "Electronic Project Data Request Form". This form will be provided to all successful Prime Contractors after the award of contract. The files that will made available and the format in which they will be made available is identified in the form

PART 2 - PRODUCTS

2.1 **ACTION SUBMITTALS**

- General: Prepare and submit Action Submittals required by individual specific properties of the submittals required by individual specific properties. A.
 - Submit electronic submittals directly to project hosting sites ly established for Project.
- B. Product Data: Collect information into a single submittal for each element of construction and type of product or equipment.
 - If information must be specially prepared for submittal because standard printed data are not 1. suitable for use, submit as Shop Drawings, not as Product Data.
 - Mark each submittal to show which products and options are applicable. 2.
 - Include the following information, as applicable:
 - Manufacturer's written recommendations. a.
 - Manufacturer's product specifications. Manufacturer's installation instructions. b.
 - c.
 - Standard color chart d.
 - e.
 - Manufacturer's catalog cuts.
 Wiring diagrams showing factory-installed wiring. f.
 - Printed performance curves.
 - erational range diagrams.
 - Mill reports.
 - andard product operation and maintenance manuals.
 - compliance with specified referenced standards.
 - Testing by recognized testing agency.
 - Application of testing agency labels and seals.
 - Notation of coordination requirements.
 - Submit Product Data before or concurrent with Samples.

Shop Drawings: Prepare Project-specific information, drawn accurately to scale. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data, unless use of Architect's CAD Drawings are otherwise permitted.

1. Preparation: Fully illustrate requirements in the Contract Documents. Include the following information, as applicable:

SUBMITTAL PROCEDURES R G ARCHITECTS, LLC 01 33 00 - 4 19039

- a. Dimensions.
- b. Identification of products.
- c. Fabrication and installation drawings.
- d. Roughing-in and setting diagrams.
- e. Wiring diagrams showing field-installed wiring, including power, signal, and control wiring.
- f. Shopwork manufacturing instructions.
- g. Templates and patterns.
- h. Schedules.
- i. Design calculations.
- j. Compliance with specified standards.
- k. Notation of coordination requirements.
- 1. Notation of dimensions established by field measurement.
- m. Relationship to adjoining construction clearly indicated.
- n. Seal and signature of professional engineer if specified,
- o. Wiring Diagrams: Differentiate between manufacturer installed and field-installed wiring.
- 2. Sheet Size: Except for templates, patterns, and similar full-size drawings, submit Shop Drawings on sheets at least 8-1/2 by 11 inches but no larger than 24 by 36 inches.
- D. Samples: Submit Samples for review of kind, color, pattern, and texture for a check of these characteristics with other elements and for a comparison of these characteristics between submittal and actual component as delivered and installed
 - 1. Transmit Samples that contain multiple, related components such as accessories together in one submittal package.
 - 2. Identification: Attach label on unexposed side of Samples that includes the following:
 - a. Generic description of Sample.
 - b. Product name and name of manufacturer.
 - c. Sample source.
 - d. Number and title of appropriate Specification Section.
 - 3. Disposition: Maintain sets of approved Samples at Project site, available for quality-control comparisons throughout the course of construction activity. Sample sets may be used to determine final acceptance of construction associated with each set.
 - Samples for Initial Selection: Submit manufacturer's color charts consisting of units or sections of units showing the full range of colors, textures, and patterns available.
 - a. Number of Samples: Submit three full set(s) of available choices where color, pattern, texture, or similar characteristics are required to be selected from manufacturer's product line. Architect will return submittal with options selected.
 - 5. Samples for Verification: Submit full-size units or Samples of size indicated, prepared from same material to be used for the Work, cured and finished in manner specified, and physically identical with material or product proposed for use, and that show full range of color and texture variations expected. Samples include, but are not limited to, the following: partial sections of manufactured or fabricated components; small cuts or containers of

R G ARCHITECTS, LLC
SUBMITTAL PROCEDURES
19039
01 33 00 - 5

materials; complete units of repetitively used materials; swatches showing color, texture, and pattern; color range sets; and components used for independent testing and inspection.

- a. Number of Samples: Submit **three** sets of Samples. Architect will retain **two** Sample sets; remainder will be returned. **Mark up and retain one returned Sample set as a Project Record Sample.**
 - 1) Submit a single Sample where assembly details, workmanship, fabrication techniques, connections, operation, and other similar characteristics are to demonstrated.
 - 2) If variation in color, pattern, texture, or other characteristic is inherent in material or product represented by a Sample, submit at least **three** sets of paired units that show approximate limits of variations.
- E. Product Schedule or List: As required in individual Specification Sections, prepare a written summary indicating types of products required for the Work and their intended location. Include the following information in tabular form:
 - 1. Type of product. Include unique identifier for each product
 - 2. Number and name of room or space.
 - 3. Location within room or space.
- F. Contractor's Construction Schedule: Comply with requirements specified in Division 01 Section "Construction Progress Documentation" for Contractor's action.
- G. Submittals Schedule: Comply with requirements specified in Division 01 Section "Construction Progress Documentation."
- H. Application for Payment: Comply with requirements specified in Division 01 Section "Payment Procedures."
- I. Schedule of Values: Comply with requirements specified in Division 01 Section "Payment Procedures."
- J. Subcontract List Prepare a written summary identifying individuals or firms proposed for each portion of the Work, including those who are to furnish products or equipment fabricated to a special design. Include the following information in tabular form:
 - 1. Name, address, and telephone number of entity performing subcontract or supplying
 - 2. Number and title of related Specification Section(s) covered by subcontract.
 - 3. Prawing number and detail references, as appropriate, covered by subcontract.

INFORMATIONAL SUBMITTALS

- A. General: Prepare and submit Informational Submittals required by individual Specification Sections.
 - 1. Certificates and Certifications: Provide a notarized statement that includes signature of entity responsible for preparing certification. Certificates and certifications shall be signed by an officer or other individual authorized to sign documents on behalf of that entity.

SUBMITTAL PROCEDURES R G ARCHITECTS, LLC 01 33 00 - 6 19039

- 2. Test and Inspection Reports: Comply with requirements specified in Division 01 Section "Quality Requirements."
- B. Coordination Drawings: Comply with requirements specified in Division 01 Section "Project Management and Coordination."
- C. Contractor's Construction Schedule: Comply with requirements specified in Division 01 Section "Construction Progress Documentation."
- D. Qualification Data: Prepare written information that demonstrates capabilities and experience of firm or person. Include lists of completed projects with project names and addresses, names and addresses of architects and owners, and other information specified.
- E. Installer Certificates: Prepare written statements on manufacturer's letterhead certifying that Installer complies with requirements in the Contract Documents and, where required, is authorized by manufacturer for this specific Project.
- F. Manufacturer Certificates: Prepare written statements on manufacturer's letterhead certifying that manufacturer complies with requirements in the Contract Documents. Include evidence of manufacturing experience where required.
- G. Product Certificates: Prepare written statements on manufacturer's letterhead certifying that product complies with requirements in the Contract Documents
- H. Material Certificates: Prepare written statements on manufacturer's letterhead certifying that material complies with requirements in the Contract Documents.
- I. Product Test Reports: Prepare written reports indicating current product produced by manufacturer complies with requirements in the Contract Documents. Base reports on evaluation of tests performed by manufacturer and witnessed by a qualified testing agency, or on comprehensive tests performed by a qualified testing agency.
- J. Schedule of Tests and Inspections: Comply with requirements specified in Division 01 Section "Quality Requirements."
- K. Preconstruction Test Reports: Prepare reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of tests performed before installation of product, for compliance with performance requirements in the Contract Documents.
- L. Compatibility Test Reports: Prepare reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of compatibility tests performed before installation of product. Include written recommendations for primers and substrate preparation needed for adhesion.
- M. Field Test Reports: Prepare reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of field tests performed either during installation of product or after product is installed in its final location, for compliance with requirements in the Contract Documents.

R G ARCHITECTS, LLC
SUBMITTAL PROCEDURES
19039
01 33 00 - 7

- N. Maintenance Data: Prepare written and graphic instructions and procedures for operation and normal maintenance of products and equipment. Comply with requirements specified in Division 01 Section "Operation and Maintenance Data."
- O. Design Data: Prepare written and graphic information, including, but not limited to, performance and design criteria, list of applicable codes and regulations, and calculations. Include list of assumptions and other performance and design criteria and a summary of loads. Include load diagrams if applicable. Provide name and version of software, if any, used for calculations. Include page numbers.
- P. Manufacturer's Instructions: Prepare written or published information that documents manufacturer's recommendations, guidelines, and procedures for installing or operating a product or equipment. Include name of product and name, address, and telephone number of manufacturer. Include the following, as applicable:
 - 1. Preparation of substrates.
 - 2. Required substrate tolerances.
 - 3. Sequence of installation or erection.
 - 4. Required installation tolerances.
 - 5. Required adjustments.
 - 6. Recommendations for cleaning and protection.
- Q. Construction **Photographs**: Comply with requirements specified in Division 01 Section "Photographic Documentation."
- R. Material Safety Data Sheets (MSDSs): Submit information directly to Owner; do not submit to Architect, except as required in "Action Submittals" Article.
 - 1. Architect will not review submittals that include MSDSs and will return or discard the entire submittal for resubmittal.

2.3 DELEGATED DESIGN

- A. Performance and Design Criteria: Where professional design services or certifications by a design professional are specifically required of Contractor by the Contract Documents, provide products and systems complying with specific performance and design criteria indicated.
 - 1. If criteria indicated are not sufficient to perform services or certification required, submit a printen request for additional information to Architect.
- B. Delegated-Design Submittal: In addition to Shop Drawings, Product Data, and other required submittals, submit statement, signed and sealed by the responsible design professional, for each product and system specifically assigned to Contractor to be designed or certified by a design professional.
 - 1. Indicate that products and systems comply with performance and design criteria in the Contract Documents. Include list of codes, loads, and other factors used in performing these services.

SUBMITTAL PROCEDURES 01 33 00 - 8

PART 3 - EXECUTION

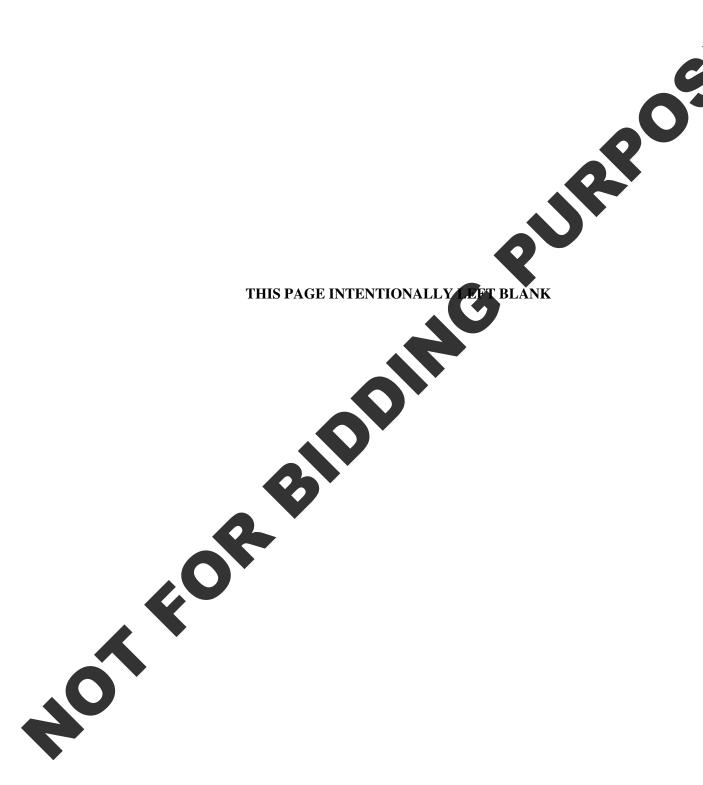
3.1 CONSTRACTOR'S REVIEW

- A. Review each submittal and check for coordination with other Work of the Contract and for compliance with the Contract Documents. Note corrections and field dimensions. Mark with approval stamp before submitting to Architect.
- B. Approval Stamp: Stamp each submittal with a uniform, approval stamp. Include Project name and location, submittal number, Specification Section title and number, name of reviewer date of Contractor's approval, and statement certifying that submittal has been reviewed, checked, and approved for compliance with the Contract Documents.

3.2 ARCHITECT'S ACTION

- A. General: Architect will not review submittals that do not bear Contractor's approval stamp and will return them without action.
- B. Action Submittals: Architect will review submittal, make marks to indicate corrections or modifications, if required, and return it. Architect will starp submittal with an action stamp and will mark stamp appropriately to indicate action taken as indicated on the Submittal Cover Sheet.
- C. Informational Submittals: Architect will review each submittal and will not return it, or will return it if it does not comply with requirements. Architect will forward each submittal to appropriate party.
- D. Partial submittals are not acceptable, will be considered nonresponsive, and will be returned without review.
- E. Submittals not required by the Contract Documents may not be reviewed and may be discarded.

END OF SECTION 01 33 00



SECTION 01 40 00

QUALITY REQUIREMENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

Drawings and general provisions of the Contract, including General and Supplementary A. and other Division 01 Specification Sections, apply to this Section.

1.2 **SUMMARY**

- A. This Section includes administrative and procedural requirements vality assurance and quality control.
- B. Testing and inspecting services are required to verify compliance with requirements specified or indicated. These services do not relieve Contractor of responsibility for compliance with the Contract Document requirements.
 - Specific quality-assurance and -control requirements for individual construction activities 1. are specified in the Sections that specify those activities. Requirements in those Sections may also cover production of standard products.
 - Specified tests, inspections, and related actions do not limit Contractor's other quality-2. assurance and -control procedures that facilitate compliance with the Contract Document requirements.
 - Requirements for Contractor to provide quality-assurance and -control services required by 3. Architect, Owner, or authorities having jurisdiction are not limited by provisions of this Section.

Related Sections include the following: C.

- Division 01 Section 01 32 00 "Construction Progress Documentation" for developing a 1. hedule of required tests and inspections.
- on 01 Section 01 73 29 "Cutting and patching" for repair and restoration of ruction disturbed by testing and inspecting activities.
- Divisions 02 through 49 Sections for specific test and inspection requirements.

DEFINITIONS

- Quality-Assurance Services: Activities, actions, and procedures performed before and during execution of the Work to guard against defects and deficiencies and substantiate that proposed construction will comply with requirements.
- B. Quality-Control Services: Tests, inspections, procedures, and related actions during and after execution of the Work to evaluate that actual products incorporated into the Work and completed

R G ARCHITECTS, LLC QUALITY REQUIREMENTS 01 40 00 - 1 construction comply with requirements. Services do not include contract enforcement activities performed by **Construction Manager**.

- C. Mockups: Full-size, physical assemblies that are constructed on-site. Mockups are used to verify selections made under sample submittals, to demonstrate aesthetic effects and, where indicated, qualities of materials and execution, and to review construction, coordination, testing, or operation, they are not Samples. Approved mockups establish the standard by which the Work will be judged.
- D. Laboratory Mockups: Full-size, physical assemblies that are constructed at testing facility to verify performance characteristics.
- E. Preconstruction Testing: Tests and inspections that are performed specifically for the Project before products and materials are incorporated into the Work to verify performance or compliance with specified criteria.
- F. Product Testing: Tests and inspections that are performed by an NRTL an NVLAP, or a testing agency qualified to conduct product testing and acceptable to authorities having jurisdiction, to establish product performance and compliance with industry standards.
- G. Source Quality-Control Testing: Tests and inspections that are performed at the source, i.e., plant, mill, factory, or shop.
- H. Field Quality-Control Testing: Tests and inspections that are performed on-site for installation of the Work and for completed Work.
- I. Testing Agency: An entity engaged to perform specific tests, inspections, or both. Testing laboratory shall mean the same as testing agency
- J. Installer/Applicator/Erector: Contractor or another entity engaged by Contractor as an employee, Subcontractor, or Sub-subcontractor to perform a particular construction operation, including installation, erection, application, and similar operations.
 - 1. Using a term such as "carpentry" does not imply that certain construction activities must be performed by accredited or unionized individuals of a corresponding generic name, such as "carperter." It also does not imply that requirements specified apply exclusively to tradespeople of the corresponding generic name.
- K. Experienced: When used with an entity, "experienced" means having successfully completed a minimum of five previous projects similar in size and scope to this Project; being familiar with special requirements indicated; and having complied with requirements of authorities having jurisdiction.

ŠUBMITTALS

- A. Qualification Data: For testing agencies specified in "Quality Assurance" Article to demonstrate their capabilities and experience. Include proof of qualifications in the form of a recent report on the inspection of the testing agency by a recognized authority.
- B. Schedule of Tests and Inspections: Prepare in tabular form and include the following:

QUALITY REQUIREMENTS R G ARCHITECTS, LLC 01 40 00 - 2 19039

- 1. Specification Section number and title.
- 2. Description of test and inspection.
- Identification of applicable standards. 3.
- Identification of test and inspection methods. 4.
- 5. Number of tests and inspections required.
- Time schedule or time span for tests and inspections. 6.
- 7. Entity responsible for performing tests and inspections.
- 8. Requirements for obtaining samples.
- 9. Unique characteristics of each quality-control service.
- C. Reports: Prepare and submit certified written reports that include the following:
 - 1. Date of issue.
 - 2. Project title and number.
 - 3. Name, address, and telephone number of testing agency.
 - 4. Dates and locations of samples and tests or inspections.
 - 5. Names of individuals making tests and inspections.
 - 6. Description of the Work and test and inspection method
 - 7. Identification of product and Specification Section.
 - Complete test or inspection data. 8.
 - 9. Test and inspection results and an interpretation of test results.
 - Record of temperature and weather conditions at time of sample taking and testing and 10. inspecting.
 - 11. Comments or professional opinion on whether tested or inspected Work complies with the Contract Document requirements.
 - 12. Name and signature of laboratory ins
 - 13. Recommendations on retesting and reinspecting.
- Permits, Licenses, and Certificates: D. For Owner's records, submit copies of permits, licenses, certifications, inspection reports, releases, jurisdictional settlements, notices, receipts for fee payments, judgments, correspondence, records, and similar documents, established for compliance with standards and regulations bearing on performance of the Work.

1.5 **QUALITY**

- Qualifications paragraphs in this Article establish the minimum qualification levels Α. required; individual Specification Sections specify additional requirements.
- seller Qualifications: A firm or individual experienced in installing, erecting, or assembling work milar in material, design, and extent to that indicated for this Project, whose work has resulted in construction with a record of successful in-service performance.
- Manufacturer Qualifications: A firm experienced in manufacturing products or systems similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.
- D. Fabricator Qualifications: A firm experienced in producing products similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.

QUALITY REQUIREMENTS 19039 01 40 00 - 3

- E. Professional Engineer Qualifications: A professional engineer who is legally qualified to practice in jurisdiction where Project is located and who is experienced in providing engineering services of the kind indicated. Engineering services are defined as those performed for installations of the system, assembly, or product that are similar to those indicated for this Project in material, design, and extent.
- F. Specialists: Certain sections of the Specifications require that specific construction activities shall be performed by entities who are recognized experts in those operations. Specialists shall satisfy qualification requirements indicated and shall be engaged for the activities indicated.
 - 1. Requirement for specialists shall not supersede building codes and regulations governing the Work.
- G. Testing Agency Qualifications: An NRTL, an NVLAP, or an independent agency with the experience and capability to conduct testing and inspecting indicated, as documented according to ASTM E 548; and with additional qualifications specified in individual Sections; and where required by authorities having jurisdiction, that is acceptable to authorities.
 - 1. NRTL: A nationally recognized testing laboratory according to 29 OFR 1910.7.
 - 2. NVLAP: A testing agency accredited according to NISTs National Voluntary Laboratory Accreditation Program.
- H. Factory-Authorized Service Representative Qualifications. An authorized representative of manufacturer who is trained and approved by manufacturer to inspect installation of manufacturer's products that are similar in material, design, and extent to those indicated for this Project.
 - 1. Testing Agency Responsibilities: Submit a certified written report of each test, inspection, and similar quality-assurance service to the Architect, with copy to Contractor. Interpret tests and inspections and state in each report whether tested and inspected work complies with or deviates from the Contract Documents.
- I. Mockups: Before installing portions of the Work requiring mockups, build mockups for each form of construction and finish required to comply with the following requirements, using materials indicated for the completed Work:
 - 1. Build mockups in location and of size indicated or, if not indicated, as directed by Architect.
 - 2. Notify Architect seven days in advance of dates and times when mockups will be constructed.
 - 3. Demonstrate the proposed range of aesthetic effects and workmanship.
 - 4. Obtain Architect's approval of mockups before starting work, fabrication, or construction.
 - Allow **seven** days for initial review and each re-review of each mockup.
 - 5. Maintain mockups during construction in an undisturbed condition as a standard for judging the completed Work.

1.6 QUALITY CONTROL

A. Owner Responsibilities: Where quality-control services are indicated as Owner's responsibility, Owner will engage a qualified testing agency to perform these services.

QUALITY REQUIREMENTS R G ARCHITECTS, LLC 01 40 00 - 4 19039

- 1. Owner will furnish Contractor with names, addresses, and telephone numbers of testing agencies engaged and a description of types of testing and inspecting they are engaged to perform.
- 2. Payment for these services will be made by the Owner.
- Costs for retesting and reinspecting construction that replaces or is necessitated by work that 3. failed to comply with the Contract Documents will be charged to Contractor, and the Contract Sum will be adjusted by Change Order.
- B. Tests and inspections not explicitly assigned to Owner are Contractor's responsibility otherwise indicated, provide quality-control services specified and those require having jurisdiction. Perform quality-control services required of Contractor by authorities having jurisdiction, whether specified or not.
 - 1. Where services are indicated as Contractor's responsibility, engage ed testing agency to perform these quality-control services.
 - Contractor shall not employ same entity engaged by Qwne unless agreed to in a. writing by Owner.
 - Notify testing agencies at least 24 hours in advance of time when Work that requires testing 2. or inspecting will be performed.
 - 3. Where quality-control services are indicated as Contractor's responsibility, submit a certified written report, in duplicate, of each quality-control service.
 - Testing and inspecting requested by Contractor and not required by the Contract Documents 4. are Contractor's responsibility.
 - Submit additional copies of each written report directly to authorities having jurisdiction, 5. when they so direct.
- C. Manufacturer's Field Services. When indicated, engage a factory-authorized service representative to inspect field-assembled components and equipment installation, including service connections. Report results in writing as specified in Division 01 Section "Submittal Procedures."
- Retesting/Reinspecting. Regardless of whether original tests or inspections were Contractor's responsibility, provide quality-control services, including retesting and reinspecting, for construction D. that replaced Work that failed to comply with the Contract Documents.
- E. Testing Agency Responsibilities: Cooperate with Architect, and Contractor in performance of duties. de qualified personnel to perform required tests and inspections.
 - Notify Architect, and Contractor promptly of irregularities or deficiencies observed in the Work during performance of its services.
 - Determine the location from which test samples will be taken and in which in-situ tests are
 - Conduct and interpret tests and inspections and state in each report whether tested and inspected work complies with or deviates from requirements.
 - Submit a certified written report, in duplicate, of each test, inspection, and similar qualitycontrol service through Contractor.
 - 5. Do not release, revoke, alter, or increase the Contract Document requirements or approve or accept any portion of the Work.
 - 6. Do not perform any duties of Contractor.

QUALITY REQUIREMENTS 19039 01 40 00 - 5

- F. Associated Services: Cooperate with agencies performing required tests, inspections, and similar quality-control services, and provide reasonable auxiliary services as requested. Notify agency sufficiently in advance of operations to permit assignment of personnel. Provide the following:
 - 1. Access to the Work.
 - 2. Incidental labor and facilities necessary to facilitate tests and inspections.
 - 3. Adequate quantities of representative samples of materials that require testing and inspecting. Assist agency in obtaining samples.
 - 4. Facilities for storage and field curing of test samples.
 - 5. Delivery of samples to testing agencies.
 - 6. Preliminary design mix proposed for use for material mixes that require control by testing agency.
 - 7. Security and protection for samples and for testing and inspecting equipment at Project site.
- G. Coordination: Coordinate sequence of activities to accommodate required quality assurance and control services with a minimum of delay and to avoid necessity of removing and replacing construction to accommodate testing and inspecting.
 - 1. Schedule times for tests, inspections, obtaining samples, and similar activities.
- H. Schedule of Tests and Inspections: Prepare a schedule of tests, inspections, and similar quality-control services required by the Contract Documents Submit schedule within 30 days of date established for commencement of the Work.
 - 1. Distribution: Distribute schedule to Owner, Architect, Construction Manager, testing agencies, and each party involved in performance of portions of the Work where tests and inspections are required.

1.7 SPECIAL TESTS AND INSPECTIONS

- A. Special Tests and Inspections: Owner will engage a qualified **testing agency** to conduct special tests and inspections required by authorities having jurisdiction as the responsibility of Owner, and as follows:
 - 1. Verifying that manufacturer maintains detailed fabrication and quality-control procedures and reviewing the completeness and adequacy of those procedures to perform the Work.
 - 2. Nonfying Architect, and Contractor promptly of irregularities and deficiencies observed in the Worlduring performance of its services.
 - 3. Submitting a certified written report of each test, inspection, and similar quality-control ervice to Architect with copy to Contractor and to authorities having jurisdiction.
 - 4. Submitting a final report of special tests and inspections at Substantial Completion, which includes a list of unresolved deficiencies.
 - Interpreting tests and inspections and stating in each report whether tested and inspected work complies with or deviates from the Contract Documents.
 - 6. Retesting and reinspecting corrected work.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 REPAIR AND PROTECTION

- A. General: On completion of testing, inspecting, sample taking, and similar services, repair damaged construction and restore substrates and finishes.
 - 1. Provide materials and comply with installation requirements specified in other Specification Sections. Restore patched areas and extend restoration into adjoining areas with durable seams that are as invisible as possible.
- B. Protect construction exposed by or for quality-control service activities.
- C. Repair and protection are Contractor's responsibility, regardless of the assignment of responsibility for quality-control services.

END OF SECTION 01 40 00

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SECTION 01 50 00

TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

Drawings and general provisions of the Contract, including General and Supple A. and other Division 01 Specification Sections, apply to this Section.

1.2 **SUMMARY**

- A. This Section includes requirements for
 - 1. Temporary utilities, support facilities, and security and protection facilities.
 - 2. Project Signage
- Related Sections include the following: B.
 - ork" for limitations on utility interruptions and 1. Division 01 Section 01 11 00 "Summary other work restrictions.
 - 2. Division 01 Section 01 33 00 "Submittal Procedures" for procedures for submitting copies of implementation and termination schedule and utility reports.

 Division 01 Section 01 72 00 "Execution" for progress cleaning requirements.
 - 3.

1.3 **DEFINITIONS**

Permanent Enclosure: As determined by Architect, permanent or temporary roofing is complete, A. insulated, and weather ant; exterior walls are insulated and weathertight; and all openings are closed with permanent construction or substantial temporary closures.

1.4

- eral: Cost or use charges for temporary facilities shall be included in the Contract Sum. Allow entities to use temporary services and facilities without cost, including, but not limited to, **Owner's construction forces**, Architect, testing agencies, and authorities having jurisdiction.
- Sewer Service: Pay sewer service use charges for sewer usage by all entities for construction operations.
- Water Service: Pay water service use charges for water used by all entities for construction operations.
- D. Electric Power Service: Pay electric power service use charges for electricity used by all entities for construction operations.

1.5 SUBMITTALS

A. Site Plan: Show temporary facilities, utility hookups, staging areas, and parking areas for construction personnel.

1.6 QUALITY ASSURANCE

- A. Electric Service: Comply with NECA, NEMA, and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70.
- B. Tests and Inspections: Arrange for authorities having jurisdiction to test and inspect each temporary utility before use. Obtain required certifications and permits.

1.7 PROJECT CONDITIONS

A. Temporary Use of Permanent Facilities: Installer of each permanent service shall assume responsibility for operation, maintenance, and protection of each permanent service during its use as a construction facility before Owner's acceptance, regardless of previously assigned responsibilities.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Portable Chain-Link Fencing: Minimum 2 inch, 9-gage, galvanized steel, chain-link fabric fencing; minimum 6 feet high with galvanized steel pipe posts; minimum 2-3/8-inch- OD line posts and 2-7/8-inch- OD corner and pull posts, with 1-5/8-inch- OD top and bottom rails. Provide galvanized steel bases for supporting posts.

2.2 TEMPORARY FACILITIES

- A. Field Offices, General. Prefabricated or mobile units with serviceable finishes, temperature controls, and foundations adequate for normal loading.
- B. Common Use Field Office: Of sufficient size to accommodate needs of construction personnel. Keep office clean and orderly. Furnish and equip offices as follows:
 - 1. Furniture required for Project-site documents including file cabinets, plan tables, plan racks, and bookcases.
 - 2. Conference room of sufficient size to accommodate meetings of **16** individuals. Provide electrical power service and 120-V ac duplex receptacles, with not less than 1 receptacle on each wall. Furnish room with conference table, chairs, and 4-foot-square tack board.
 - 3. Drinking water and private toilet.
 - 4. Coffee machine and supplies.
 - 5. Heating and cooling equipment necessary to maintain a uniform indoor temperature of 68 to 72 deg F.
 - 6. Lighting fixtures capable of maintaining average illumination of 20 fc at desk height.

- C. Storage and Fabrication Sheds: Provide sheds sized, furnished, and equipped to accommodate materials and equipment for construction operations.
 - 1. Store combustible materials apart from building.

2.3 EQUIPMENT

A. Fire Extinguishers: Portable, UL rated; with class and extinguishing agent as required by locations and classes of fire exposures.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

- A. Locate facilities where they will serve Project adequately and result in minimum interference with performance of the Work. Relocate and modify facilities as required by progress of the Work.
- B. Provide each facility ready for use when needed to avoid delay. Do not remove until facilities are no longer needed or are replaced by authorized use of completed permanent facilities.

3.2 TEMPORARY UTILITY INSTALLATION

- A. General: Install temporary service or connect to existing service.
 - 1. Arrange with utility company Owner, and existing users for time when service can be interrupted, if necessary, to make connections for temporary services.
- B. Sewers and Drainage Provide temporary utilities to remove effluent lawfully.
 - 1. Connect temporary sewers to **municipal system** as directed by authorities having jurisdiction.
- C. Water Service Install water service and distribution piping in sizes and pressures adequate for construction.
- D. Water Service: Use of Owner's existing water service facilities will be permitted, as long as facilities are cleaned and maintained in a condition acceptable to Owner. At Substantial Completion, restore these facilities to condition existing before initial use.
 - 1. Where installations below an outlet might be damaged by spillage or leakage, provide a drip pan of suitable size to minimize water damage. Drain accumulated water promptly from pans.
- E. Sanitary Facilities: Provide temporary toilets, wash facilities, and drinking water for use of construction personnel. Comply with authorities having jurisdiction for type, number, location, operation, and maintenance of fixtures and facilities.

- 1. Toilets: Use of Owner's existing toilet facilities will be permitted, as long as facilities are cleaned and maintained in a condition acceptable to Owner. At Substantial Completion, restore these facilities to condition existing before initial use.
- F. Electric Power Service: Use of Owner's existing electric power service will be permitted, as long as equipment is maintained in a condition acceptable to Owner.
- G. Electric Power Service: Provide electric power service and distribution system of sufficient size, capacity, and power characteristics required for construction operations.
 - 1. Install electric power service **underground**, unless otherwise indicated.
 - 2. Connect temporary service to Owner's existing power source, as directed by Owner.
- H. Lighting: Provide temporary lighting with local switching that provides adequate illumination for construction operations, observations, inspections, and traffic conditions.
 - 1. Install and operate temporary lighting that fulfills security and protection requirements without operating entire system.
 - 2. Install lighting for Project identification sign.
- I. Telephone Service: Provide temporary telephone service in common-use facilities for use by all construction personnel. Install 2 telephone line(s) for each field office.
 - 1. Provide additional telephone lines for the following:
 - a. Provide a dedicated telephone line for each facsimile machine and computer in each field office.
 - b. Provide **one** telephone line(s) for Owner's use.
 - 2. At each telephone, post a list of important telephone numbers.
 - a. Police and fire departments.
 - b. Ambulance service
 - c. Contractor's home office.
 - d. Architect's office.
 - e. Engineers' offices.
 - f. Owner's office.
 - g. Principal subcontractors' field and home offices.
 - 3. Provide superintendent with cellular telephone or portable two-way radio for use when away from field office.
- J. Electronic Communication Service: Provide temporary electronic communication service, including electronic mail, in common-use facilities.
 - 1. Provide **DSL line** in primary field office.

3.3 SUPPORT FACILITIES INSTALLATION

- A. General: Comply with the following:
 - 1. Provide incombustible construction for offices, shops, and sheds located within construction

- area or within 30 feet of building lines. Comply with NFPA 241.
- 2. Maintain support facilities until near Substantial Completion. Remove before Substantial Completion. Personnel remaining after Substantial Completion will be permitted to use permanent facilities, under conditions acceptable to Owner.
- B. Traffic Controls: Comply with requirements of authorities having jurisdiction.
 - 1. Protect existing site improvements to remain including curbs, pavement, and utilities
 - 2. Maintain access for fire-fighting equipment and access to fire hydrants.
- C. Parking: Provide temporary OR Use designated areas of Owner's existing parking areas for construction personnel.
- D. Dewatering Facilities and Drains: Comply with requirements of authorities having jurisdiction. Maintain Project site, excavations, and construction free of water.
 - 1. Dispose of rainwater in a lawful manner that will not result in Rooding Project or adjoining properties nor endanger permanent Work or temporary facilities.
 - 2. Remove snow and ice as required to minimize accumulations.
- E. Project Identification and Temporary Signs: Provide Project identification and other signs. Install signs where indicated to inform public and individuals seeking entrance to Project. Unauthorized signs are not permitted.
 - 1. Provide temporary, directional signs for construction personnel and visitors.
 - 2. Maintain and touchup signs so they are legible at all times.
- F. Waste Disposal Facilities: Comply with requirements specified in Division 01 Section "Construction Waste Management and Disposal."
- G. Waste Disposal Facilities: Provide waste-collection containers in sizes adequate to handle waste from construction operations. Comply with requirements of authorities having jurisdiction. Comply with Division 01 Section "Execution" for progress cleaning requirements.

3.4 SECURITY AND PROTECTION FACILITIES INSTALLATION

- A. Environmental Protection: Provide protection, operate temporary facilities, and conduct construction in ways and by methods that comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.
 - 1. Comply with work restrictions specified in Division 01 Section "Summary."
- B. Temporary Erosion and Sedimentation Control: Provide measures to prevent soil erosion and discharge of soil-bearing water runoff and airborne dust to adjacent properties and walkways, according to requirements of authorities having jurisdiction.
 - 1. Inspect, repair, and maintain erosion- and sedimentation-control measures during construction until permanent vegetation has been established.

- C. Stormwater Control: Comply with authorities having jurisdiction. Provide barriers in and around excavations and subgrade construction to prevent flooding by runoff of stormwater from heavy rains.
- D. Tree and Plant Protection: Install temporary fencing located as indicated or outside the drip line of trees to protect vegetation from damage from construction operations. Protect tree root systems from damage, flooding, and erosion.
- E. Site Enclosure Fence: **Before construction operations begin**, furnish and install site enclosure fence in a manner that will prevent people and animals from easily entering site except by entrance gates.
 - 1. Extent of Fence: [As required to enclose entire Project site or portion determined sufficient to accommodate construction operations] [As indicated on Drawings].
 - 2. Maintain security by limiting number of keys and restricting distribution to authorized personnel. **Provide Owner with one set of keys.**
- F. Security Enclosure and Lockup: Install substantial temporary enclosure around partially completed areas of construction. Provide lockable entrances to prevent unauthorized entrance, vandalism, theft, and similar violations of security.
- G. Barricades, Warning Signs, and Lights: Comply with requirements of authorities having jurisdiction for erecting structurally adequate barricades, including warning signs and lighting.

3.5 PROJECT SIGN

- A. Project Identification and Temporary Signs. Prepare Project identification and other signs in sizes indicated. Install signs where indicated to inform public and persons seeking entrance to Project. Do not permit installation of unauthorized signs. Allow for a minimum 4'-0" x 8'-0" sign with cutouts.
 - 1. Engage an experienced sign painter to apply graphics for Project identification signs.
 - 2. Comply with details indicated in drawing and color rendering to be provided by Architect.
- B. 4. Paint sign panel and applied graphics with exterior-grade alkyd gloss enamel over exterior primer.

3.6 OPERATION, TERMINATION, AND REMOVAL

- A. Supervision: Enforce strict discipline in use of temporary facilities. To minimize waste and abuse, limit availability of temporary facilities to essential and intended uses.
 - Maintenance: Maintain facilities in good operating condition until removal.
 - 1. Maintain operation of temporary enclosures, heating, cooling, humidity control, ventilation, and similar facilities on a 24-hour basis where required to achieve indicated results and to avoid possibility of damage.
- C. Temporary Facility Changeover: Do not change over from using temporary security and protection facilities to permanent facilities until Substantial Completion.

- D. Termination and Removal: Remove each temporary facility when need for its service has ended, when it has been replaced by authorized use of a permanent facility, or no later than Substantial Completion. Complete or, if necessary, restore permanent construction that may have been delayed because of interference with temporary facility. Repair damaged Work, clean exposed surfaces, and replace construction that cannot be satisfactorily repaired.
 - 1. Materials and facilities that constitute temporary facilities are property of Contractor. Owner reserves right to take possession of Project identification signs.
 - 2. Remove temporary paving not intended for or acceptable for integration into permanent paving. Where area is intended for landscape development, remove soil and aggregate full that do not comply with requirements for fill or subsoil. Remove materials contaminated with road oil, asphalt and other petrochemical compounds, and other substances that might impair growth of plant materials or lawns. Repair or replace street paving, curbs, and sidewalks at temporary entrances, as required by authorities having intisticution.
 - sidewalks at temporary entrances, as required by authorities having jurisdiction.

 3. At Substantial Completion, clean and renovate permanent facilities used Juring construction period. Comply with final cleaning requirements specified in Division 01 Section "Closeout Procedures."

END OF SECTION 01 50 00

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SECTION 01 60 00

PRODUCT REQUIREMENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes administrative and procedural requirements for selection of products for use in Project; product delivery, storage, and handling; manufactures' standard warranties on products; special warranties; product substitutions; and comparable products.
- B. Related Sections include the following:
 - 1. Division 01 Section 01 23 00 "Alternates" for products selected under an alternate.
 - 2. Division 01 Section 01 77 00 "Closeout Procedures" for submitting warranties for Contract closeout.
 - 3. Divisions 02 through 49 Sections for specific requirements for warranties on products and installations specified to be warranted.

1.3 DEFINITIONS

- A. Products: Items purchased for incorporating into the Work, whether purchased for Project or taken from previously purchased stock. The term "product" includes the terms "material," "equipment," "system," and terms of smilar intent.
 - 1. Named Products: Items identified by manufacturer's product name, including make or model number or other designation shown or listed in manufacturer's published product literature that is current as of date of the Contract Documents.
 - New Products: Items that have not previously been incorporated into another project or facility. Products salvaged or recycled from other projects are not considered new products.
 - 3. Comparable Product: Product that is demonstrated and approved through submittal process, or where indicated as a product substitution, to have the indicated qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics that equal or exceed those of specified product.
- B. Substitutions: Changes in products, materials, equipment, and methods of construction from those required by the Contract Documents and proposed by Contractor.
- C. Basis-of-Design Product Specification: Where a specific manufacturer's product is named and accompanied by the words "basis-of-design," including make or model number or other designation,

R G ARCHITECTS, LLC PRODUCT REQUIREMENTS 01 60 00 - 1

to establish the significant qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics for purposes of evaluating comparable products of other named manufacturers.

1.4 SUBMITTALS

- A. Product List: Submit a list, in tabular form, showing specified products. Include generic names of products required. Include manufacturer's name and proprietary product names for each product.
 - 1. Coordinate product list with Contractor's Construction Schedule and the Submittals Schedule.
 - 2. Form: Tabulate information for each product under the following column headings:
 - a. Specification Section number and title.
 - b. Generic name used in the Contract Documents.
 - c. Proprietary name, model number, and similar designations.
 - d. Manufacturer's name and address.
 - e. Supplier's name and address.
 - f. Installer's name and address.
 - g. Projected delivery date or time span of delivery period
 - h. Identification of items that require early submittal approval for scheduled delivery date.
 - 3. Initial Submittal: Within 30 days after date of commencement of the Work, submit 6 copies of initial product list. Include a written explanation for omissions of data and for variations from Contract requirements.
 - 4. Architect's Action: Architect will respond in writing to Contractor within 15 days of receipt of completed product list. Architect's response will include a list of unacceptable product selections and a brief explanation of reasons for this action. Architect's response, or lack of response, does not constitute a waiver of requirement to comply with the Contract Documents.
- B. Substitution Requests: Subject three copies of each request for consideration. Identify product or fabrication or installation method to be replaced. Include Specification Section number and title and Drawing numbers and titles.
 - 1. Substitution Request Form: Use facsimile of form provided at end of Section.
 - 2. Decumentation: Show compliance with requirements for substitutions and the following, as applicable:
 - a. Statement indicating why specified material or product cannot be provided.
 - b. Coordination information, including a list of changes or modifications needed to other parts of the Work and to construction performed by Owner and separate contractors, that will be necessary to accommodate proposed substitution.
 - c. Detailed comparison of significant qualities of proposed substitution with those of the Work specified. Significant qualities may include attributes such as performance, weight, size, durability, visual effect, and specific features and requirements indicated.
 - d. Product Data, including drawings and descriptions of products and fabrication and installation procedures.
 - e. Samples, where applicable or requested.

PRODUCT REQUIREMENTS 01 60 00 - 2

- f. List of similar installations for completed projects with project names and addresses and names and addresses of architects and owners.
- g. Material test reports from a qualified testing agency indicating and interpreting test results for compliance with requirements indicated.
- h. Research/evaluation reports evidencing compliance with building code in effect for Project, from a model code organization acceptable to authorities having jurisdiction
- i. Detailed comparison of Contractor's Construction Schedule using proposed substitution with products specified for the Work, including effect on the overall Contract Time. If specified product or method of construction cannot be provided within the Contract Time, include letter from manufacturer, on manufacturer's letterhead, stating lack of availability or delays in delivery.
- j. Cost information, including a proposal of change, if any, in the Contract Sum.
- k. Contractor's certification that proposed substitution complies with requirements in the Contract Documents and is appropriate for applications indicated.
 l. Contractor's waiver of rights to additional payment or time that may subsequently
- 1. Contractor's waiver of rights to additional payment or time that may subsequently become necessary because of failure of proposed substitution to produce indicated results.
- 3. Architect's Action: If necessary, Architect will request additional information or documentation for evaluation within 7 days of receipt of a request for substitution. Architect will notify Contractor of acceptance or rejection of proposed substitution within 15 days of receipt of request, or 7 days of receipt of additional information or documentation, whichever is later.
 - a. Form of Acceptance: Change Order
 - b. Use product specified if Architect cannot make a decision on use of a proposed substitution within time allocated.
- C. Basis-of-Design Product Specification Submittal: Comply with requirements in Division 01 Section "Submittal Procedures." Show compliance with requirements.

1.5 OUALITY ASSURANCE

- A. Compatibility of Options: If Contractor is given option of selecting between two or more products for use on Project, product selected shall be compatible with products previously selected, even if previously selected products were also options.
 - 1. Each contractor is responsible for providing products and construction methods compatible with products and construction methods of other contractors.
 - If a dispute arises between contractors over concurrently selectable but incompatible products, Architect will determine which products shall be used.

PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, and handle products using means and methods that will prevent damage, deterioration, and loss, including theft. Comply with manufacturer's written instructions.
- B. Delivery and Handling:

R G ARCHITECTS, LLC PRODUCT REQUIREMENTS 01 60 00 - 3

- 1. Schedule delivery to minimize long-term storage at Project site and to prevent overcrowding of construction spaces.
- 2. Coordinate delivery with installation time to ensure minimum holding time for items that are flammable, hazardous, easily damaged, or sensitive to deterioration, theft, and other losses.
- 3. Deliver products to Project site in an undamaged condition in manufacturer's original sealed container or other packaging system, complete with labels and instructions for handling, storing, unpacking, protecting, and installing.
- 4. Inspect products on delivery to ensure compliance with the Contract Documents and t ensure that products are undamaged and properly protected.

C. Storage:

- 1. Store products to allow for inspection and measurement of quantity or counting of units.
- 2. Store materials in a manner that will not endanger Project structure.
- 3. Store products that are subject to damage by the elements, under cover in a weathertight enclosure above ground, with ventilation adequate to prevent condensation.
- 4. Store cementitious products and materials on elevated platforms
- 5. Store foam plastic from exposure to sunlight, except to extent necessary for period of installation and concealment.
- 6. Comply with product manufacturer's written instructions for temperature, humidity, ventilation, and weather-protection requirements for storage.
- 7. Protect stored products from damage and liquids from freezing.
- 8. Provide a secure location and enclosure at Project site for storage of materials and equipment by Owner's construction forces. Coordinate location with Owner.

1.7 PRODUCT WARRANTIES

- A. Warranties specified in other Sections shall be in addition to, and run concurrent with, other warranties required by the Contract Documents. Manufacturer's disclaimers and limitations on product warranties do not relieve Contractor of obligations under requirements of the Contract Documents.
 - 1. Manufacturer's Warranty: Preprinted written warranty published by individual manufacturer for a particular product and specifically endorsed by manufacturer to Owner.
 - 2. Special Warranty: Written warranty required by or incorporated into the Contract Documents, either to extend time limit provided by manufacturer's warranty or to provide more rights for Owner.
- B. Special Warranties: Prepare a written document that contains appropriate terms and identification, ready for execution. Submit a draft for approval before final execution.
 - 1. Manufacturer's Standard Form: Modified to include Project-specific information and properly executed.
 - 2. Specified Form: When specified forms are included with the Specifications, prepare a written document using appropriate form properly executed.
 - 3. Refer to Divisions 02 through 49 Sections for specific content requirements and particular requirements for submitting special warranties.
- C. Submittal Time: Comply with requirements in Division 01 Section "Closeout Procedures."

PRODUCT REQUIREMENTS R G ARCHITECTS, LLC 01 60 00 - 4 19039

PART 2 - PRODUCTS

2.1 PRODUCT SELECTION PROCEDURES

- A. General Product Requirements: Provide products that comply with the Contract Documents, that are undamaged and, unless otherwise indicated, that are new at time of installation.
 - 1. Provide products complete with accessories, trim, finish, fasteners, and other items needed for a complete installation and indicated use and effect.
 - 2. Standard Products: If available, and unless custom products or nonstandard options are specified, provide standard products of types that have been produced and used successfully in similar situations on other projects.
 - 3. Owner reserves the right to limit selection to products with warranties not in conflict with requirements of the Contract Documents.
 - 4. Where products are accompanied by the term "as selected." Architect will make selection.
 - 5. Where products are accompanied by the term "match sample," sample to be matched is Architect's.
 - 6. Descriptive, performance, and reference standard requirements in the Specifications establish "salient characteristics" of products.
 - 7. Or Equal or Comparable Product: Where products are specified by name and accompanied by the term "or equal" or "comparable product" or "or approved equal" or "or approved," comply with provisions in Part 2 "Comparable Products" Article to obtain approval for use of an unnamed product.

B. Product Selection Procedures:

- 1. Product: Where Specifications name a single product and manufacturer, provide the named product that complies with requirements.
- 2. Manufacturer/Source: Where Specifications name a single manufacturer or source, provide a product by the named manufacturer or source that complies with requirements.
- 3. Products: Where Specifications include a list of names of both products and manufacturers, provide one of the products listed that complies with requirements.
- 4. Manufacturers: Where Specifications include a list of manufacturers' names, provide a product by one of the manufacturers listed that complies with requirements.
- 5. Available Products: Where Specifications include a list of names of both products and manufacturers, provide one of the products listed, or an unnamed product, that complies with requirements. Comply with provisions in Part 2 "Comparable Products" Article for consideration of an unnamed product.
- Available Manufacturers: Where Specifications include a list of manufacturers, provide a product by one of the manufacturers listed, or an unnamed manufacturer, that complies with requirements. Comply with provisions in Part 2 "Comparable Products" Article for consideration of an unnamed product.
- 7. Product Options: Where Specifications indicate that sizes, profiles, and dimensional requirements on Drawings are based on a specific product or system, provide the specified product or system. Comply with provisions in Part 2 "Product Substitutions" Article for consideration of an unnamed product or system.
- 8. Basis-of-Design Product: Where Specifications name a product and/or include a list of manufacturers, provide the specified product or a comparable product by one of the other named manufacturers. Drawings and Specifications indicate sizes, profiles, dimensions, and

R G ARCHITECTS, LLC PRODUCT REQUIREMENTS 01 60 00 - 5



- other characteristics that are based on the product named. Comply with provisions in Part 2 "Comparable Products" Article for consideration of an unnamed product by the other named manufacturers.
- 9. Visual Matching Specification: Where Specifications require matching an established Sample, select a product that complies with requirements and matches Architect's sample. Architect's decision will be final on whether a proposed product matches.
 - a. If no product available within specified category matches and complies with other specified requirements, comply with provisions in Part 2 "Product Substitutions" Article for proposal of product.
- 10. Visual Selection Specification: Where Specifications include the phrase "as selected from manufacturer's colors, patterns, textures" or a similar phrase, select a product that complies with other specified requirements.
 - a. Standard Range: Where Specifications include the phrase "standard range of colors, patterns, textures" or similar phrase, Architect will select color pattern, density, or texture from manufacturer's product line that does not include premium items.
 - b. Full Range: Where Specifications include the phrase "full range of colors, patterns, textures" or similar phrase, Architect will select color, pattern, density, or texture from manufacturer's product line that includes both standard and premium items.

2.2 PRODUCT SUBSTITUTIONS

- A. Timing: Architect will consider requests for substitution if received within 30 days after the Notice of Award. Requests received after that time may be considered or rejected at discretion of Architect.
- B. Conditions: Architect will consider Contractor's request for substitution when the following conditions are satisfied. If the following conditions are not satisfied, Architect will return requests without action, except to record noncompliance with these requirements:
 - 1. Requested substitution offers Owner a substantial advantage in cost, time, energy conservation, or other considerations, after deducting additional responsibilities Owner must assume. Owner's additional responsibilities may include compensation to Architect for redesign and evaluation services, increased cost of other construction by Owner, and similar considerations.
 - 2. Requested substitution does not require extensive revisions to the Contract Documents.
 - 3. Requested substitution is consistent with the Contract Documents and will produce indicated results.
 - 4. Substitution request is fully documented and properly submitted.
 - 5. Requested substitution will not adversely affect Contractor's Construction Schedule.
 - 6. Requested substitution has received necessary approvals of authorities having jurisdiction.
 - Requested substitution is compatible with other portions of the Work.
 - 8. Requested substitution has been coordinated with other portions of the Work.
 - 9. Requested substitution provides specified warranty.
 - 10. If requested substitution involves more than one contractor, requested substitution has been coordinated with other portions of the Work, is uniform and consistent, is compatible with other products, and is acceptable to all contractors involved.

PRODUCT REQUIREMENTS 01 60 00 - 6

2.3 COMPARABLE PRODUCTS

- A. Conditions: Architect will consider Contractor's request for comparable product when the following conditions are satisfied. If the following conditions are not satisfied, Architect will return requests without action, except to record noncompliance with these requirements:
 - 1. Evidence that the proposed product does not require extensive revisions to the Contract Documents that it is consistent with the Contract Documents and will produce the indicate results, and that it is compatible with other portions of the Work.
 - 2. Detailed comparison of significant qualities of proposed product with those named in the Specifications. Significant qualities include attributes such as performance, weight, size, durability, visual effect, and specific features and requirements indicated.
 - 3. Evidence that proposed product provides specified warranty.
 - 4. List of similar installations for completed projects with project names and addresses and names and addresses of architects and owners, if requested.
 - 5. Samples, if requested.

PART 3 - EXECUTION (Not Used)

END OF SECTION 01 60 00





SUBSTITUTION REQUEST (After the Bidding Phase)

Project: To: Re:	Substitution Request Number: From: Date: A/E Project Number: Contact For:		
Specification Title: Section: Page: Drawing Number and Title:	Description: Article/Paragraph: Details Numbered:		
Proposed Substitution: Manufacturer: Address: Phone: Trade Name:	Fax: Model No.		
Installer: Address:	Phone: Fax:		
Differences between proposed substitution and s	More than 10 years old More than 10 years old pecified product: REQUIRED BY A/E		
Reason for not providing specified item:			
Similar Installation: Project: Address: Architect: Owner: Date Installed:	Phone No.: Phone No.:		
Proposed substitutions affects other parts of Wor			
Cost Savings to Owner for accepting substitution Proposed Substitution changes Contract Time: No Yes (Add) (Deduction of the Contract Time) Supporting Data Attached: Drawings Processing Supporting Data Attached:	uct)days.		

SUBSTITUTION REQUEST

(Continued)

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Cost data as stated above is complete. Claims for additional costs related to accepted substitution which may subsequently become
 apparent are to be waived.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.
- Coordination, installation, and changes in the Work as necessary for accepted substitution will be complete in all respects

Submitted by:	
Signed by:	
Firm:	
Address:	
Telephone:	
Attachments:	
☐ Substitution ☐ Substitution	approved – Make submittals in accordance with Specification Section 01330. approved as noted – Make submittals in accordance with Specification Section 01330. rejected – Use specified materials.
Signed by:	Request received too late – Use specified materials
	Request received too late – Use specified materials Date:
Signed by:	Request received too late – Use specified materials Date:
Signed by:	Request received too late – Use specified materials Date:

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September 1996 CSI Form 13.1A

SECTION 01 73 00

EXECUTION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

Drawings and general provisions of the Contract, including General and Supplementary A. onditions and other Division 01 Specification Sections, apply to this Section.

1.2 **SUMMARY**

- This Section includes general procedural requirements govern ion of the Work including, A. but not limited to, the following:
 - 1. Construction layout.
 - 2. Field engineering and surveying.
 - 3. General installation of products.
 - Coordination of Owner-installed product 4.
 - 5. Progress cleaning.
 - 6. Starting and adjusting.
 - Protection of installed constru 7.
 - 8 Correction of the Work.

B. Related Sections include the follo

- Division 01 Section 01 31 00 "Project Management and Coordination" for procedures for 1. coordinating field engineering with other construction activities.

 Division 01 Section 01 33 00 "Submittal Procedures" for submitting surveys.
- 2.
- Division 01 Section 01 73 29 "Cutting and Patching" for procedural requirements for cutting 3. and patering necessary for the installation or performance of other components of the Work.
- Division Of Section 01 77 00 "Closeout Procedures" for submitting final property survey 4. with Project Record Documents, recording of Owner-accepted deviations from indicated and levels, and final cleaning.

SUBMITTALS

Landfill Receipts: Submit copy of receipts issued by a landfill facility, licensed to accept hazardous materials, for hazardous waste disposal.

R G ARCHITECTS, LLC **EXECUTION** 19039 01 73 00 - 1

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Existing Conditions: The existence and location of site improvements, utilities, and other construction indicated as existing are not guaranteed. Before beginning work, investigate and verify the existence and location of mechanical and electrical systems and other construction affecting the Work.
 - 1. Before construction, verify the location and points of connection of utility services.
- B. Existing Utilities: The existence and location of underground and other utilities and construction indicated as existing are not guaranteed. Before beginning sitework, investigate and verify the existence and location of underground utilities and other construction affecting the Work.
 - 1. Before construction, verify the location and points of connection of sanitary sewer, storm sewer, and water-service piping; and underground electrical services.
 - 2. Furnish location data for work related to Project that must be performed by public utilities serving Project site.
- C. Acceptance of Conditions: Examine substrates, areas, and conditions, with Installer or Applicator present where indicated, for compliance with requirements for installation tolerances and other conditions affecting performance. Record observations.
 - 1. Written Report: Where a written report listing conditions detrimental to performance of the Work is required by other Sections, include the following:
 - a. Description of the Work
 - b. List of detrimental conditions, including substrates.
 - c. List of unacceptable installation tolerances.
 - d. Recommended corrections.
 - 2. Verify compatibility with and suitability of substrates, including compatibility with existing finishes or primers.
 - 3. Examine roughing-in for mechanical and electrical systems to verify actual locations of connections before equipment and fixture installation.
 - 4. Examine walls, floors, and roofs for suitable conditions where products and systems are to be installed.
 - 5. Proceed with installation only after unsatisfactory conditions have been corrected. Proceeding with the Work indicates acceptance of surfaces and conditions.

3.2 **PREPARATION**

- A. Existing Utility Information: Furnish information to **Owner** that is necessary to adjust, move, or relocate existing utility structures, utility poles, lines, services, or other utility appurtenances located in or affected by construction. Coordinate with authorities having jurisdiction.
- B. Field Measurements: Take field measurements as required to fit the Work properly. Remeasurements before installing each product. Where portions of the Work are indicated to other construction, verify dimensions of other construction by field measurements before fabrication Coordinate fabrication schedule with construction progress to avoid delaying the W
- C. Space Requirements: Verify space requirements and dimensions of items shown flagrammatically on Drawings.
- Review of Contract Documents and Field Conditions: Immediately on d overy of the need for D. clarification of the Contract Documents, submit a Request for Information to Architect. Include a detailed description of problem encountered, together with recommendations for changing the Contract Documents.

3.3 CONSTRUCTION LAYOUT

- Verification: Before proceeding to lay out the Wor y layout information shown on Drawings, A. in relation to the property survey and existing benchmarks. If discrepancies are discovered, notify Architect promptly.
- General: Engage a professional engineer to lay out the Work using accepted surveying practices. B.
 - 1. Establish benchmarks and control points to set lines and levels at each story of construction and elsewhere as needed to locate each element of Project.
 - Establish dimensions within tolerances indicated. Do not scale Drawings to obtain required 2. dimensions.
 - Inform installers of lines and levels to which they must comply. 3.
 - Check the location, level and plumb, of every major element as the Work progresses. 4.
 - 5. Notify A chitect when deviations from required lines and levels exceed allowable tolerances.
 - Close site surveys with an error of closure equal to or less than the standard established by thorities having jurisdiction.
- **C**. Maintain a log of layout control work. Record deviations from required lines and s. Include beginning and ending dates and times of surveys, weather conditions, name and duty ach survey party member, and types of instruments and tapes used. Make the log available for reference by Architect.

INSTALLATION

- General: Locate the Work and components of the Work accurately, in correct alignment and elevation, as indicated.
- B. Comply with manufacturer's written instructions and recommendations for installing products in applications indicated.

R G ARCHITECTS, LLC **EXECUTION** 01 73 00 - 3

- C. Install products at the time and under conditions that will ensure the best possible results. Maintain conditions required for product performance until Substantial Completion.
- D. Conduct construction operations so no part of the Work is subjected to damaging operations or loading in excess of that expected during normal conditions of occupancy.
- E. Tools and Equipment: Do not use tools or equipment that produce harmful noise levels.
- F. Templates: Obtain and distribute to the parties involved templates for work specified to be factory prepared and field installed. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing products to comply with indicated requirements.
- G. Joints: Make joints of uniform width. Where joint locations in exposed work are not indicated, arrange joints for the best visual effect. Fit exposed connections together to form handine joints.
- H. Hazardous Materials: Use products, cleaners, and installation materials that are not considered hazardous.

3.5 PROGRESS CLEANING

- A. General: **Each Contractor** shall clean Project site and work areas daily, including common areas. Coordinate progress cleaning for joint-use areas where more than one installer has worked. Enforce requirements strictly. Dispose of materials lawfully
 - 1. Comply with requirements in NFPA 241 for removal of combustible waste materials and debris.
 - 2. Do not hold materials more than 7 days during normal weather or 3 days if the temperature is expected to rise above 80 deg F
 - 3. Containerize hazardous and unsanitary waste materials separately from other waste. Mark containers appropriately and dispose of legally, according to regulations.
- B. Site: Maintain Project site free of waste materials and debris.
- C. Work Areas: Clean areas where work is in progress to the level of cleanliness necessary for proper execution of the Work.
 - 1. Remove liquid spills promptly.
 - 2. Where dust would impair proper execution of the Work, broom-clean or vacuum the entire work area, as appropriate.
- D. Installed Work: Keep installed work clean. Clean installed surfaces according to written instructions of manufacturer or fabricator of product installed, using only cleaning materials specifically recommended. If specific cleaning materials are not recommended, use cleaning materials that are not hazardous to health or property and that will not damage exposed surfaces.
- E. Concealed Spaces: Remove debris from concealed spaces before enclosing the space.
- F. Exposed Surfaces in Finished Areas: Clean exposed surfaces and protect as necessary to ensure freedom from damage and deterioration at time of Substantial Completion.

EXECUTION R G ARCHITECTS, LLC 01 73 00 - 4 19039

- G. Waste Disposal: Burying or burning waste materials on-site will not be permitted. Washing waste materials down sewers or into waterways will not be permitted.
- H. During handling and installation, clean and protect construction in progress and adjoining materials already in place. Apply protective covering where required to ensure protection from damage or deterioration at Substantial Completion.
- I. Clean and provide maintenance on completed construction as frequently as necessary through the remainder of the construction period. Adjust and lubricate operable components to ensure operablity without damaging effects.
- J. Limiting Exposures: Supervise construction operations to assure that no part of the construction, completed or in progress, is subject to harmful, dangerous, damaging, or otherwise deleterious exposure during the construction period.

3.6 STARTING AND ADJUSTING

- A. Start equipment and operating components to confirm proper operation. Remove malfunctioning units, replace with new units, and retest.
- B. Adjust operating components for proper operation without binding. Adjust equipment for proper operation.
- C. Test each piece of equipment to verify proper operation. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
- D. Manufacturer's Field Service: If a factory-authorized service representative is required to inspect field-assembled components and equipment installation, comply with qualification requirements in Division 01 Section "Quality Requirements."

3.7 PROTECTION OF INSTALLED CONSTRUCTION

- A. Provide final protection and maintain conditions that ensure installed Work is without damage or deterioration at time of Substantial Completion.
- B. Comply with manufacturer's written instructions for temperature and relative humidity.

3.8 CORRECTION OF THE WORK

- Repair or remove and replace defective construction. Restore damaged substrates and finishes. Comply with requirements in Division 01 Section "Cutting and Patching."
 - 1. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment.
- B. Restore permanent facilities used during construction to their specified condition.
- C. Remove and replace damaged surfaces that are exposed to view if surfaces cannot be repaired without visible evidence of repair.

R G ARCHITECTS, LLC

19039

EXECUTION

01 73 00 - 5

D. Repair components that do not operate properly. Remove and replace operating components that cannot be repaired.

E. Remove and replace chipped, scratched, and broken glass or reflective surfaces.



01 73 29 - 1

SECTION 01 73 29

CUTTING AND PATCHING

PART 1 - GENERAL

RELATED DOCUMENTS

Drawings and general provisions of the Contract, including General and Supplement A. onditions and other Division 01 Specification Sections, apply to this Section.

SUMMARY

- This Section includes procedural requirements for cutting and A.
- Related Sections include the following: В.
 - requirements and limitations applicable to 1. Divisions 02 through 49 Sections for specifi cutting and patching individual parts of t

DEFINITIONS

- Cutting: Removal of in-place construction A. necessary to permit installation or performance of other Work.
- B. Patching: Fitting and rep quired to restore surfaces to original conditions after installation of other Work.

SUBMITTALS

- ching Proposal: Submit a proposal describing procedures at least 10 days before the an patching will be performed, requesting approval to proceed. Include the following
 - Extent: Describe cutting and patching, show how they will be performed, and indicate why they cannot be avoided.
 - 2. Changes to In-Place Construction: Describe anticipated results. Include changes to structural elements and operating components as well as changes in building's appearance and other significant visual elements.
 - 3. Products: List products to be used and firms or entities that will perform the Work.
 - Dates: Indicate when cutting and patching will be performed. 4.
 - Utility Services and Mechanical/Electrical Systems: List services/systems that cutting and patching procedures will disturb or affect. List services/systems that will be relocated and those that will be temporarily out of service. Indicate how long services/systems will be disrupted.

CUTTING AND PATCHING

- 6. Structural Elements: Where cutting and patching involve adding reinforcement to structural elements, submit details and engineering calculations showing integration of reinforcement with original structure.
- 7. **Architect's** Approval: Obtain approval of cutting and patching proposal before cutting and patching. Approval does not waive right to later require removal and replacement of unsatisfactory work.

OUALITY ASSURANCE

- A. Structural Elements: Do not cut and patch structural elements in a manner that could change their load-carrying capacity or load-deflection ratio.
- B. Operational Elements: Do not cut and patch operating elements and related components in a manner that results in reducing their capacity to perform as intended or that results in increased maintenance or decreased operational life or safety. **Operating elements include the following:**
 - 1. Primary operational systems and equipment.
 - 2. Air or smoke barriers.
 - 3. Fire-suppression systems.
 - 4. Communication systems.
 - 5. Electrical wiring systems.
- C. Visual Requirements: Do not cut and patch construction in a manner that results in visual evidence of cutting and patching. Do not cut and patch construction exposed on the exterior or in occupied spaces in a manner that would, in Architect's coinion, reduce the building's aesthetic qualities. Remove and replace construction that has been cut and patched in a visually unsatisfactory manner.
- D. Cutting and Patching Conference: Before proceeding, meet at Project site with parties involved in cutting and patching, including mechanical and electrical trades. Review areas of potential interference and conflict. Coordinate procedures and resolve potential conflicts before proceeding.

WARRANTY

A. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during cutting and patching operations, by methods and with materials so as not to void existing warranties.

PART 2 - PRODUCTS

MATERIALS

General: Comply with requirements specified in other Sections.

- In-Place Materials: Use materials identical to in-place materials. For exposed surfaces, use materials that visually match in-place adjacent surfaces to the fullest extent possible.
 - 1. If identical materials are unavailable or cannot be used, use materials that, when installed, will match the visual and functional performance of in-place materials.

CUTTING AND PATCHING

R G ARCHITECTS, LLC

19039

PART 3 - EXECUTION

EXAMINATION

- Examine surfaces to be cut and patched and conditions under which cutting and patching are A. performed.
 - Compatibility: Before patching, verify compatibility with and suitability of substr 1. including compatibility with in-place finishes or primers.
 - 2. Proceed with installation only after unsafe or unsatisfactory conditions have een d

PREPARATION

- Temporary Support: Provide temporary support of Work to be cut. A.
- B. Protection: Protect in-place construction during cutting and patch prevent damage. Provide protection from adverse weather conditions for portions of Project that might be exposed during cutting and patching operations.
- joining areas or interruption of free passage to **C**. Adjoining Areas: Avoid interference with use of adjoining areas.

PERFORMANCE

- General: Employ skilled workers to perform cutting and patching. Proceed with cutting and patching A. at the earliest feasible time, and complete without delay.
 - 1. Cut in-place construction to provide for installation of other components or performance of other construction subsequently patch as required to restore surfaces to their original condition.
- B. Cutting: Cut in-place construction by sawing, drilling, breaking, chipping, grinding, and similar operations, including excavation, using methods least likely to damage elements retained or adjoining construction. If possible, review proposed procedures with original Installer; comply with I Installer's written recommendations.
 - In general, use hand or small power tools designed for sawing and grinding, not hammering and chopping. Cut holes and slots as small as possible, neatly to size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use.
 - 2. Finished Surfaces: Cut or drill from the exposed or finished side into concealed surfaces.
 - Concrete and Masonry: Cut using a cutting machine, such as an abrasive saw or a diamond-core drill.
 - 4. Excavating and Backfilling: Comply with requirements in applicable Division 31 Sections where required by cutting and patching operations.
 - 5. Proceed with patching after construction operations requiring cutting are complete.
- C. Patching: Patch construction by filling, repairing, refinishing, closing up, and similar operations following performance of other Work. Patch with durable seams that are as invisible as possible. Provide materials and comply with installation requirements specified in other Sections.

R G ARCHITECTS, LLC **CUTTING AND PATCHING** 01 73 29 - 3 19039

- 1. Inspection: Where feasible, test and inspect patched areas after completion to demonstrate integrity of installation.
- 2. Exposed Finishes: Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will eliminate evidence of patching and refinishing.
 - a. Clean piping, conduit, and similar features before applying paint or other finishing materials.
 - b. Restore damaged pipe covering to its original condition.
- D. Cleaning: Clean areas and spaces where cutting and patching are performed. Completely remove paint, mortar, oils, putty, and similar materials.

END OF SECTION 01 73 29

SECTION 01 74 19

CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes: Administrative and procedural requirements for construction waste management activities.

1.2 DEFINITIONS

- A. Construction, Demolition, and Land clearing (CDL) Waster Includes all non-hazardous solid wastes resulting from construction, remodeling, alterations, repair, demolition and land clearing. Includes material that is recycled, reused, salvaged or disposed as garbage.
- B. Salvage: Recovery of materials for on-site reuse, sale or donation to a third party.
- C. Reuse: Making use of a material without altering its form. Materials can be reused on-site or reused on other projects off-site. Examples include but are not limited to the following: Crushing or grinding of concrete for use as sub-base material. Chipping of land clearing debris for use as mulch.
- D. Recycling: The process of sorting, cleaning, treating, and reconstituting materials for the purpose of using the material in the manufacture of a new product.
- E. Source-Separated DL Recycling: The process of separating recyclable materials in separate containers as they are generated on the job-site. The separated materials are hauled directly to a recycling facility or transfer station.
- F. Co-mingled CDL Recycling: The process of collecting mixed recyclable materials in one container on-site. The container is taken to a material recovery facility where materials are separated for recycling.
- **G.** Approved Recycling Facility: Any of the following:
 - 1. A facility that can legally accept CDL waste materials for the purpose of processing the materials into an altered form for the manufacture of a new product.
 - 2. Material Recovery Facility: A general term used to describe a waste-sorting facility. Mechanical, hand-separation, or a combination of both procedures, are used to recover recyclable materials.

1.3 SUBMITTALS

A. Contractor shall develop a Waste Management Plan: Submit 3 copies of plan within 14 days of date established for the **Notice to Proceed**.

B. Contractor shall provide Waste Management Report: Concurrent with each Application for Payment, submit 3 copies of report.

1.4 PERFORMANCE REQUIREMENTS

- A. General: Divert a minimum of 75% CDL waste, by weight, from the landfill by one, or combination of the following activities:
 - 1. Salvage
 - 2. Reuse
 - 3. Source-Separated CDL Recycling
 - 4. Co-mingled CDL Recycling
- B. CDL waste materials that can be salvaged, reused or recycled include, but are not limited to, the following:
 - 1. Acoustical ceiling tiles
 - 2. Asphalt
 - 3. Asphalt shingles
 - 4. Cardboard packaging
 - 5. Carpet and carpet pad
 - 6. Concrete
 - 7. Drywall
 - 8. Fluorescent lights and ballasts
 - 9. Land clearing debris (vegetation, stumpage, dirt)
 - 10. Metals
 - 11. Paint (through hazardous waste outlet
 - 12. Wood
 - 13. Plastic film (sheeting, shrink wrap, packaging)
 - 14. Window glass
 - 15. Wood
 - 16. Field office waste, including office paper, aluminum cans, glass, plastic, and office cardboard.

1.5 QUALITY ASSURANCE

- A. Waste Management Coordinator Qualifications: Experienced firm, with a record of successful waste management coordination of projects with similar requirements, that employs a LEED Accredited Professional, certified by the USGBC as waste management coordinator.
- B. Refrigerant Recovery Technician Qualifications: Certified by EPA-approved certification program.
- C. Regulatory Requirements: Conduct construction waste management activities in accordance with hauling and disposal regulations of all authorities having jurisdiction and all other applicable laws and ordinances.
- D. Preconstruction Conference: Schedule and conduct meeting at Project site prior to construction activities.

CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL

19039

- 1. Attendees: Inform the following individuals, whose presence is required, of date and time of meeting.
 - a. Owner
 - b. Architect
 - c. Contractor's superintendent
 - d. Major subcontractors
 - e. Waste Management Coordinator
 - f. Other concerned parties
- 2. Agenda Items: Review methods and procedures related to waste management including, but not limited to, the following:
 - a. Review and discuss waste management plan including responsibilities of Waste Management Coordinator.
 - b. Review requirements for documenting quantities of each type of waste and its disposition.
 - c. Review and finalize procedures for materials separation and verify availability of containers and bins needed to avoid delays.
 - d. Review procedures for periodic waste collection and transportation to recycling and disposal facilities.
 - e. Review waste management requirements for each trade.
- 3. Minutes: Record discussion. Distribute meeting minutes to all participants.

Note: If there is a Project Architect, they will perform this role.

- 1.6 WASTE MANAGEMENT PLAN Contactor shall develop and document the following:
 - A. Develop a plan to meet the requirements listed in this section at a minimum. Plan shall consist of waste identification, waste reduction plan and cost/revenue analysis. Distinguish between demolition and construction waste. Indicate quantities by weight throughout the plan.
 - B. Indicate anticipated types and quantities of demolition, site-cleaning and construction waste generated by the project. List all assumptions made for the quantities estimates.
 - C. List each type of waste and whether it will be salvaged, recycled, or disposed of in a landfill. The plan should included the following information:
 - Types and estimated quantities, by weight, of CDL waste expected to be generated during demolition and construction.
 - 2. Proposed methods for CDL waste salvage, reuse, recycling and disposal during demolition including, but not limited to, one or more of the following:
 - a. Contracting with a deconstruction specialist to salvage materials generated,
 - b. Selective salvage as part of demolition contractor's work,
 - c. Reuse of materials on-site or sale or donation to a third party.
 - 3. Proposed methods for salvage, reuse, recycling and disposal during construction including, but not limited to, one or more of the following:

- a. Requiring subcontractors to take their CDL waste to a recycling facility;
- b. Contracting with a recycling hauler to haul recyclable CDL waste to an approved recycling or material recovery facility;
- c. Processing and reusing materials on-site;
- d. Self-hauling to a recycling or material recovery facility.
- 4. Name of recycling or material recovery facility receiving the CDL wastes.
- 5. Handling and Transportation Procedures: Include method that will be used for separating recyclable waste including sizes of containers, container labeling, and designated location on project site where materials separation will be located.
- D. Cost/Revenue Analysis: Indicate total cost of waste disposal as if there was no waste management plan and net additional cost or net savings resulting from imprementing waste management plan. Include the following:
 - 1. Total quantity of waste.
 - 2. Estimated cost of disposal (cost per unit). Include harding and tipping fees and cost of collection containers for each type of waste.
 - 3. Total cost of disposal (with no waste management
 - 4. Revenue from salvaged materials.
 - 5. Revenue from recycled materials.
 - 6. Savings in hauling and tipping fees by donating materials.
 - 7. Savings in hauling and tipping fees that are avoided.
 - 8. Handling and transportation costs. Including cost of collection containers for each type of waste.
 - 9. Net additional cost or net savings from waste management plan.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 CONSTRUCTION WASTE MANAGEMENT, GENERAL

- A. Provide containers for CDL waste that is to be recycled clearly labeled as such with a list of acceptable and unacceptable materials. The list of acceptable materials must be the same as the materials recycled at the receiving material recovery facility or recycling processor.
- B. The collection containers for recyclable CDL waste must contain no more than 10% non-recyclable material, by volume.
- Provide containers for CDL waste that is disposed in a landfill clearly labeled as such.
- D. Use detailed material estimates to reduce risk of unplanned and potentially wasteful cuts.
- E. To the greatest extent possible, include in material purchasing agreements a waste reduction provision requesting that materials and equipment be delivered in packaging made of recyclable material, that they reduce the amount of packaging, that packaging be taken back for reuse or recycling, and to take back all unused product. Insure that subcontractors require the same provisions in their purchase agreements.

CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL R G AF 01 74 19 - 4

F. Conduct regular visual inspections of dumpsters and recycling bins to remove contaminants.

3.2 SOURCE SEPARATION

A. General: Contractor shall separate recyclable materials from CDL waste to the maximum extent possible.

Separate recyclable materials by type.

- 1. Provide containers, clearly labeled, by type of separated materials or provide other storage method for managing recyclable materials until they are removed from Project site.
- 2. Stockpile processed materials on-site without intermixing with other materials. Place, grade, and shape stockpiles to drain surface water and to minimize pest attraction. Cover to prevent windblown dust.
- 3. Stockpile materials away from demolition area. Do not store within drip line of remaining trees.
- 4. Store components off the ground and protect from weather.

3.3 CO-MINGLED RECYCLING

A. General: Do not put CDL waste that will be disposed in a landfill into a co-mingled CDL waste recycling container.

3.4 REMOVAL OF CONSTRUCTION WAS TE MATERIALS

- A. Remove CDL waste materials from project site on a regular basis. Do not allow CDL waste to accumulate on-site.
- B. Transport CDL waste materials off Owner's property and legally dispose of them.
- C. Burning of CDL waste is not permitted.

END OF SECTION 01 74 19

WASTE M	WASTE MANAGEMENT PROGRESS REPORT					
	DISPOSED IN MUNICIPAL SOLID WASTE LANDFILL		DIVERTED FROM LANDFILL BY RECYCLING, SALVAGE OR REUSE			
MATERIAL CATEGORY			Recycled	Salvaged	Reused	
Acoustical Ceiling Tiles						
2. Asphalt						
3. Asphalt Shingles						
Cardboard Packaging						
5. Carpet and Carpet Pad						
6. Concrete						
7. Drywall						
Fluorescent Lights and Ballasts			CA			
Land Clearing Debris (vegetation, stumpage, dirt)						
10. Metals						
11. Paint (through hazardous waste outlets)						
12. Wood						
13. Plastic Film (sheeting, shrink wrap, packaging)						
14. Window Glass						
15. Field Office Waste (office paper, aluminum cans, glass, plastic, and coffee cardboard)	2					
16. Other (insert description)						
17. Other (insert description)						
otal (In Weight)			(TOTAL OF WEIGHT)	ALL ABOVE V/	ALUES – IN	
5		Percentage of (TOTAL WASTE DIVID Waste Diverted BY TOTAL DIVERTED)				

SECTION 01 77 00

CLOSEOUT PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes administrative and procedural requirements for contract closeout, including, but not limited to, the following:
 - 1. Inspection procedures.
 - 2. Warranties.
 - 3. Final cleaning.
- B. Related Sections include the following:
 - 1. Division 01 Section 01 29 00 "Payment Procedures" for requirements for Applications for Payment for Substantial and Final Completion.
 - 2. Division 01 Section 01 73 00 "Execution" for progress cleaning of Project site.
 - 3. Division 01 Section 01 78 39 "Project Record Documents" for submitting Record Drawings, Record Specifications, and Record Product Data.
 - 4. Divisions 02 through 49 Sections for specific closeout and special cleaning requirements for the Work in those Sections.

1.3 SUBSTANTIAL COMPLETION

- A. Preliminary Procedures: Before requesting inspection for determining date of Substantial Completion complete the following. List items below that are incomplete in request.
 - Prepare a list of items to be completed and corrected (punch list), the value of items on the list, and reasons why the Work is not complete.
 - 2. Advise Owner of pending insurance changeover requirements.
 - 3. Submit specific warranties, workmanship bonds, maintenance service agreements, final certifications, and similar documents.
 - 4. Obtain and submit releases permitting Owner unrestricted use of the Work and access to services and utilities. Include occupancy permits, operating certificates, and similar releases.
 - 5. Prepare and submit Project Record Documents, operation and maintenance manuals, Final Completion construction photographs, damage or settlement surveys, property surveys, and similar final record information.

R G ARCHITECTS, LLC CLOSEOUT PROCEDURES 19039 01 77 00 - 1

- 6. Deliver tools, spare parts, extra materials, and similar items to location designated by Owner. Label with manufacturer's name and model number where applicable.
- 7. Make final changeover of permanent locks and deliver keys to Owner. Advise Owner's personnel of changeover in security provisions.
- 8. Terminate and remove temporary facilities from Project site, along with mockups, construction tools, and similar elements.
- 9. Complete final cleaning requirements, including touchup painting.
- 10. Touch up and otherwise repair and restore marred exposed finishes to eliminate visual defects.
- B. Inspection: Submit a written request for inspection for Substantial Completion. On receipt of request, Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare the Certificate of Substantial Completion after inspection or will notify Contractor of items, either on Contractor's list or additional items identified by Architect, that must be completed or corrected before certificate will be issued.
 - 1. Reinspection: Reinspection will occur during final inspection
 - 2. Results of completed inspection will form the basis of requirements for Final Completion.

1.4 FINAL COMPLETION

- A. Preliminary Procedures: Before requesting final inspection for determining date of Final Completion, complete the following:
 - 1. Submit a final Application for Payment according to Division 01 Section "Payment Procedures."
 - 2. Submit certified copy of Architect's Substantial Completion inspection list of items to be completed or corrected (punch list), endorsed and dated by Architect. The certified copy of the list shall state that each item has been completed or otherwise resolved for acceptance.
 - 3. Submit evidence of final continuing insurance coverage complying with insurance requirements.
 - 4. Submit pest-control fina inspection report and warranty.
 - 5. Instruct Owner's personnel in operation, adjustment, and maintenance of products, equipment, and systems.
- B. Inspection: Submit a written request for final inspection for acceptance. On receipt of request, Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare a final Certificate for Payment after inspection or will notify Contractor of construction that must be completed or corrected before certificate will be issued.
 - 1. Reinspection: Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.
 - Inspections by the Architect, requested by the Contractor after the second punch list inspection, shall be at the cost of the Contractor. Costs shall be on a time and material basis and back charged to the Contractor's contract with the Owner.

CLOSEOUT PROCEDURES R G ARCHITECTS, LLC 01 77 00 - 2 19039

1.5 LIST OF INCOMPLETE ITEMS (PUNCH LIST)

- A. Preparation: Submit three copies of list. Include name and identification of each space and area affected by construction operations for incomplete items and items needing correction including, if necessary, areas disturbed by Contractor that are outside the limits of construction.
 - 1. Organize list of spaces in sequential order, starting with exterior areas first and proceeding from lowest floor to highest floor.
 - 2. Organize items applying to each space by major element, including categories for ceiling individual walls, floors, equipment, and building systems.
 - 3. Include the following information at the top of each page:
 - a. Project name.
 - b. Date.
 - c. Name of Architect.
 - d. Name of Contractor.
 - e. Page number.

1.6 WARRANTIES

- A. Submittal Time: Submit written warranties on request of Architect for designated portions of the Work where commencement of warranties other than date of Substantial Completion is indicated.
- B. Partial Occupancy: Submit properly executed warranties within 15 days of completion of designated portions of the Work that are completed and occupied or used by Owner during construction period by separate agreement with Contractor.
- C. Organize warranty documents into an orderly sequence based on the table of contents of the Project Manual.
 - 1. Bind warranties and bonds in heavy-duty, 3-ring, vinyl-covered, loose-leaf binders, thickness as accessary to accommodate contents, and sized to receive 8-1/2-by-11-inch paper.
 - 2. Provide heavy paper dividers with plastic-covered tabs for each separate warranty. Mark tab to identify the product or installation. Provide a typed description of the product or installation, including the name of the product and the name, address, and telephone number of lossaber.
 - dentify each binder on the front and spine with the typed or printed title "WARRANTIES," Project name, and name of Contractor.
- Provide additional copies of each warranty to include in operation and maintenance manuals.

R G ARCHITECTS, LLC CLOSEOUT PROCEDURES 19039 01 77 00 - 3

PART 2 - PRODUCTS

2.1 MATERIALS

A. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.

PART 3 - EXECUTION

3.1 FINAL CLEANING

- A. General: Provide final cleaning. Conduct cleaning and waste-removal operations to comply with local laws and ordinances and Federal and local environmental and antipollution regulations.
- B. Cleaning: Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to condition expected in an average commercial building cleaning and maintenance program. Comply with manufacturer's written instructions.
 - 1. Complete the following cleaning operations before requesting inspection for certification of Substantial Completion for entire Project or for a portion of Project:
 - a. Clean Project site, yard, and grounds to areas disturbed by construction activities, including landscape development areas, of rubbish, waste material, litter, and other foreign substances.
 - b. Sweep paved areas broom clean. Remove petrochemical spills, stains, and other foreign deposits.
 - c. Rake grounds that are neither planted nor paved to a smooth, even-textured surface.
 - d. Remove snow and ice to provide safe access to building.
 - e. Clean exposed exterior and interior hard-surfaced finishes to a dirt-free condition, free of stains, films, and similar foreign substances. Avoid disturbing natural weathering of exterior surfaces. Restore reflective surfaces to their original condition.
 - f. Leave Project clean and ready for occupancy.
- C. Comply with safety standards for cleaning. Do not burn waste materials. Do not bury debris or excess materials on Owner's property. Do not discharge volatile, harmful, or dangerous materials into drainage systems. Remove waste materials from Project site and dispose of lawfully.

END OF SECTION 01 77 00

SECTION 01 77 10

CLOSEOUT DOCUMENT CHECKLIST

Date:

- 1. Form G704 Substantial Completion
- 2. Form G706 Affidavit of Payment of Debts and Claims
- 3. Form 706A Release of Liens Contractor / Subcontractor
- 4. Form 707 Consent of Surety Company
- 5. Final Payment App
- 6. Certificate of Occupancy
- 7. Environmental Certificates
- 8. Warranties (Letter of Guarantee and Warranty Info)
- 9. O&M Manuals
- 10. Hard Copy of As-Built Drawings
- 11. 2 sets of drawing discs. Updated CAD files
- 12. Test & Balancing Reports
- 13. Field Reports/Inspection Reports
- 14. Pest Control Final Inspection Report & Warranty (Slabs over 400SF)
- 15. Record Shop Drawings and submittals
- 16. Affidavit of Discharge of State Tax Liability
- 17. Copy of completed final punch list signed off on by Owner's Rep
- 18. Punch list Closeout Letter.

END OF SECTION 01 77 10



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SECTION 32 01 17 SAW CUTTING AND BUTT JOINTS

PART 1 – GENERAL

762.01 DESCRIPTION

A. Mechanically saw cut patch edges or tie-in joints into existing pavement. Construct butt joints by saw cutting and removing the existing bituminous concrete or Portland cement concrete pavement to provide an area to butt the new bituminous concrete pavement against the existing pavement in accordance with the Contract Documents and as directed by the Engineer.

762.02 MATERIALS

A. Provide Materials as specified in: Joint Scalant Section 32 12 36.

762.03 CONSTRUCTION METHODS

- A. Use a suitable walk behind, motor driven, wet type diamond blade, circular cutter with control devices, mounted on a stordy frame designed to cut Portland cement concrete and hot-laid, bituminous concrete pavements.
- B. Cut a groove in a straight line to sufficient depth to produce an even, neat joint to allow for removal of Material without damage to adjacent pavement.
 - 1. Continuously supply water to the cutting blade either by water tank on the Equipment or by other means
 - 2. Saw cut the full depth of the pavement.
- C. Other Equipment may be used for saw cutting hot-laid bituminous concrete.
- D. Ontinuously remove waste Material, created by saw cutting into pavement removed in order to construct butt joint, in accordance with Sections 106.08 and 903.03. Seal saw cuts made beyond the limits defined in the Contract Documents with an approved sealant.

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SECTION 32 12 00

BITUMINOUS PAVEMENTS

PART I – GENERAL

401.01 GENERAL

A. Construct one or more courses of bituminous pavement on either a prepared foundation or an existing surface course. Construct butt joints by saw cutting and removing the existing hot-laid bituminous concrete or Portland cement concrete pavement to provide an area to butt the new hot-laid bituminous concrete pavement against the existing pavement.

401.02 MATERIALS

A. Provide Materials as specified in:

Asphalt Cement Section 1012
Asphalt Production Section 1014
Tack Coat* Section 1011

*For Thin-Lift items: PG64-22

Release Agents Section 1910 Joint Sealant Section 1942

401.03 CONSTRUCTION

- A. Prior to paving, conduct a pre-paving meeting to discuss joint layout. Material delivery, striping layout, maintenance of traffic for paving, and Equipment. Include the Engineer, the Department's Materials and Research Section, and any other pertinent parties.
 - 1. *Mir Design*. Develop job-mix formula (JMF) in accordance with Section 1014 Asphalt Production and submit test results for review a minimum of three (3) Days before application. Include aggregate type and gradation and percentages of polymer-modified emulsion, water, and cement by dry aggregate weight (mass).
 - 2. Delivery of Mixture. Minimum of 100 tons per hour delivered to the Project site.
 - 3. Hauling Equipment. Furnish trucks with tight, clean, smooth, metal beds which have been thinly coated with an emulsified oil, soap solution, or other approved release agent to prevent adherence of the bituminous mixture to the bed of the truck. Provide each truck with a securely fastened cover of canvas or other suitable waterproof material that covers the bed from front to back and over the sides. Fasten the front of the tarp securely to the body or protected by an air foil. Provide at least three straps to a side and two straps to the back to prevent the cover from ballooning up, to protect

R G ARCHITECTS, LLC 19039

- the mixture from the weather, and to prevent heat loss. Do not remove any loads late in the day that spreading and compacting of the mixture cannot be completed by sunset unless approval for nighttime paving has been granted by the Engineer.
- 4. Paver. Self-propelled unit with automated screed or strike-off assembly that automatically controls grade leveling and slope, heated, and capable of spreading and finishing bituminous pavement Materials in lane widths specified. Equip with an attachment that confines the Material at the end of the gate and extrudes the asphalt Material in such a way results in a compacted wedge shape pavement edge (safety edge) of 32 degrees (+/- 2 degrees). Stopping the paver unit so that the attachment of be adjusted at cross roads, driveways, and obstructions in not permitted.
- 5. Rollers. Self-propelled, static and/or vibratory steel wheel type equipped with scrapers, or pneumatic-tire oscillating type, equipped with smooth tires of equal size and diameter with a system for moistening each wheel or roller. Use number and weight of rollers sufficient to compact the mixture to the required density without crushing aggregate or displacing the mixture.
- 6. Weather Limitations. Place bituminous pavement Materials only when the surface is dry, unfrozen, and the weather is not foggy or rainy. Presence of frost particles in the roadbed or on the surface is sufficient evidence to prohibit placement.

Do not permit placement of subsequent lifts or release open to traffic until the mat temperature is below 140 degrees Fahrenheit.

Placement of bituminous concrete is not permitted when the ambient air temperature at the location of the paving operation is below the temperatures indicated in Table 401-A below:

Table 401-A. Minimum Ambient Air Temperature for Placement of Types of Bituminous Concrete

Material Type	1" Lift or Less	1.25 to 2" Lift	Greater than 2.25 to 3" Lift
В	50°F	40°F	32°F
C	50°F	40°F	N/A

- 7. Preparing Base or Existing Surface. Clear surface of debris. Apply and cure tack coat before placing the mixture. Apply a tack coat on all curbs, gutters, manholes, or other structure surfaces that will be in contact with the mixture.
 - Repair damaged areas of the tacked surface, and restore the existing pavement or base to a uniform grade and cross section before placing the mix.
- 8. *Tack Coat.* Apply on all dry and broom cleaned surfaces at a uniform rate of a 0.05 gallons per square yard to 0.15 gallons per square yard at a temperature of 70 degrees Fahrenheit to 160 degrees Fahrenheit using pressurized distributing Equipment with a spray bar or other approved distribution system. Apply in advance of the asphalt paving operation, but no further than is anticipated for the current day's operation.
- 9. *Placement*. Place mixture in a continuous operation by paving machine methods of spreading and screeding to the thickness shown in the Contract Documents and conform to the grade and surface contour required.

BITUMINOUS PAVEMENT R G ARCHITECTS, LLC 32 12 00 - 2 19039

- a. Outside edges of pavement are to be in true alignment, parallel to the centerline of the roadway with the longitudinal joint in the surface course at the lane line.
- b. When paving multiple lifts or courses, offset individual successive lifts a minimum of 6 inches.
- c. Place the base course with an approved paver or spreader in approximately equal layers of not less than 3 inches and not to exceed 6 inches in depth after compaction. Submit for approval requests, if any, to use Type B Superpave in lieu of BCBC. If approved by the Engineer, the Type B Superpave may be placed in lifts of not less than 3 inches and not to exceed 6 inches in depth after compaction.

The Type B Superpave placed in lieu of BCBC will be paid at the Contract Unit Price for BBC and the Asphalt Cement Cost Adjustment will be based on the virgin asphalt of BCB, not the Type B Superpave.

After the bituminous concrete base course is placed, exposure is not permitted for a period longer than ten days. If, due to conditions of emergency, more than ten (10) Days elapse, uniformly spray a fog coat of CSS-1-b on the exposed base course before placing the wearing course of bituminous concrete. In addition, the Contractor shall plan the paving operation so that no bituminous base courses remain unsurfaced after the "winter shur-down" unless authorized by the Engineer.

d. Carefully plan the placement of the surface course to ensure that the joints in the surface course will be correspond with the proposed traffic lanes and will not be located in the wheel path of vehicles using the roadway. Locate longitudinal joints at the lane line (center and edge). Longitudinal joints must be parallel to the centerline unless otherwise shown on the Plans. Place the longitudinal joint between the travel way and shoulder on the shoulder side of the lane line. Establish and follow reference lines or other approved markings to control the true alignment of the longitudinal joints.

Take immediate action to correct unsatisfactory work should unevenness of texture, tearing, or stoving occur during the paving operation due to unsatisfactory material, methods, or equipment.

- 10. Compaction Compact by rolling after the bituminous pavement mixture has been spread, spuck off, and surface irregularities adjusted.
- 11 Compaction Testing. Perform Quality Control of pavement compaction by testing inplace pavement density. At the option of the Contractor, a single core of the first day of paving and after the change of JMF may be required for laboratory testing for gauge calibration. Repair all core holes in accordance with 401699 Appendix A.

Engineer will perform Quality Assurance testing per 401699.

12. Material production quality evaluated per item 401699 – Quality Control/Quality Assurance of Bituminous Concrete .03 (a) Material Production – Tests and Evaluations.

Compaction quality evaluated per Item 401699 – Quality Assurance of Bituminous Concrete .03 (b) Pavement Construction – Tests and Evaluations.

- 13. *Joints*. Seal all newly created pavement joints that will not be overlaid, with the exception of those created from placement of newly laid adjacent passes, with an approved joint sealant Material of appropriate dimensions in accordance with the Contract Documents. Construct joints to ensure surface and compaction requirements are met. Tack all vertical contact surfaces before placing any new mixture against the joint. For joint openings exceeding ¼ inch width, the Engineer may require corrective action at no expense to the Department.
 - a. For butt joints, saw cut and construct in accordance with Section 762 of the Contract Documents. Fill any saw cut beyond the limits shown on the Plans with approved sealant. Dispose of all Material removed for construction of the butt joint in the accordance with Section 106.08.
- 14. Surface Tolerances. Maximum deviation both longitudinal and transverse is ¼ inch to 10 feet. Correct or remove areas exceeding these tolerances at no expense to the Department.

END OF SECTION 32 12 00

SECTION 32 12 10

ASPHALT MATERIALS PRODUCTION

PART 1 – GENERAL

1014.01 MATERIAL REQUIREMENTS

Produce asphaltic base and surface Material as specified in the following:

Fine Aggregate See below

Coarse Aggregate See below

Antistripping Additive Section 1013

Asphalt Cement Section 1012

Tack Coat Section 10

Recycled Asphalt Pavement (RAP) See below

Recycled Asphalt Shingles (RAS)

See below

Mineral Filler AASMTO M17

Warm Mix Additive See below

1014.02.1 FINE AGGREGATE

Table 1014-1

Design ESALS (Millions) Fine Aggregate Angularity (AASHTO T304) % minimum			Sand Equivalency (AASHTO T176) % minimum	Sodium Sulfate (AASHTO T104)	Deleterious Materials (AASHTO T122)
	≤ 100 mm	> 100 mm		Maximum % Loss	
<0.3	-	-	40		
0.3 to <3	40	40	40		10
3 to <10	45	40	45	20	
≥ 10	45	40	45		

1014.02.3 COARSE AGGREGATE

Conform to AASHTO M80 except no gravel, crushed gravel, or recycled concrete aggregate (RCA) used.

Table 1014-2

Design ESALS (Millions)	Coarse Aggregate Angularity (AASHTO T304) % minimum ¹		Flat and Elongated (ASTM 4791 with a 5:1	LA Abrasion (AASHTO T96)	Sodium Sulfate (AASHTO T104)	Deleterious Materials (AASHTO T122
	≤ 100 mm	> 100 mm	aspect ratio) % minimum	I	Maximum % Los	s
<0.3	55/-	-/-				
0.3 to <3	75/-	50/-				
3 to <10	85/80	60/-	10	40	20	10
≥ 10	95/90	80/75				

¹ XX/YY denotes that XX% of the coarse aggregate has one fractured face and YY% has two or more fracture faces.

1014.02.4 RAP/RAS

The percent of recycled materials (RAP/RAS) allowed in the pavement mixture is controlled through the Materials and Research recycled mixture program available through the Materials & Research section. The mechanically processed material must be homogenous in consistency.

Recycled Asphalt Shingles (RAS) materials must be processed so that 100% passes the 3/8" (9.5mm) sieve. All shingles must be free of foreign material and projective. Fost-consumer shingles must be verified to be free of asbestos fibers. The deleterious materials for Recycled Asphalt Shingles (RAS) cannot exceed 1.5 percent of the total mass retained on the #4 (4.75mm) sieve.

1014.02.5 WARM MIX ADDITIVES

Submit the following information at least 30 Calendar Days prior to production.

- A. WMA technology and/or additive information.
- B. WMA technology manufacturer's recommendation for usage.
- C. WMA technology target dosage rate and tolerance envelope. Support tolerance envelope with test data demonstrating acceptable mix production properties conforming to all sections of this specification.
- D. WMA technology manufacturer's material safety data sheets (MSDS).
- E. Documentation of past WMA technology field application including points of contact.
- F. Temperature ranges for mixing and compacting.
- G. Laboratory test data, samples, and sources of all mix components, and asphalt binder viscosity-temperature relationships.

Follow the manufacturer's recommendation for incorporating additives and WMA technologies into the mix. Comply with the manufacturer's recommendation regarding receiving, storage, and delivery of additives.

If the producer performs, blending of the WMA technology in the tank, submit a separate Quality Control Plan developed by the producer to the Department for review and approval at least 30 Calendar Days prior to production.

1014.03 PRODUCTION QUALITY CONTROL PLAN REQUIREMENTS

Submit a Quality Control (QC) Plan to the Materials and Research Section on an annual basis for each proposed production facility for review and approval prior to Material production. The QC Plan will include actions to assure all materials and products will conform to the Specifications whether manufactured or processed by the Contractor, or procured from suppliers, subcontractors, or vendors. The Contractor will perform inspection and testing required to ensure product conformance to Contract requirements. Document QC inspections and tests and provide copies to the Engineer when requested Maintain records of all inspections and tests for at least one year. Records must include date, time, and nature of deficiency or deficiencies found; the quantities of Material involved until the deficiency was corrected; and the date, time, and nature of corrective actions taken.

The QC Plan will detail the type and frequency of inspection, sampling, and testing deemed necessary to measure and control the various properties of Material and construction governed by the Specifications. The QC Plan will include, but not be limited to, the following:

- A. Production Plant make, type, capacity, and location.
- B. Production Plant Calibration components and calibration schedule.
- C. Personnel include name and telephone number for the following individuals:
 - 1. Person responsible for quality control including inspections, sampling, and testing personnel.
 - 2. Person who has the authority to make corrective actions on behalf of the Contractor.
- D. Testing Laboratory frequency calibrations of the equipment used for testing.
- E. Load number of QC samples (1-10 if QA sample is not within trucks 1-10).
- F. Sampling technique.
- G. Tests to be performed and their frequency:
 - 1. Mixture Temperature: first five and each sampled load.
 - 2. Aggregate, RAP, and RAS stockpile gradation analysis
 - a. Aggregate one washed gradations per week per stockpile.
 - b. RAP/RAS. five gradations and asphalt cement contents for dedicated stockpiles where new Material is not being added.
 - c. RAPARAS one gradation and asphalt cement content test per week for stockpiles where Material is continually being added to the stockpile.
 - 3. Gradation analysis of non-payment sieves.
 - 4. Dust to effective asphalt calculation.
 - 5. Daily moisture content analysis of aggregates.
 - **6.** Gradation analysis of the combined aggregate cold feed one per year per mixture.
 - Bulk specific gravity and absorption of blended material one per year per mixture.
 - Ignition oven calibration one per year per mixture.
 - 9. Hot-Bins: one per year per mixture.
 - 10. Others, as appropriate.
- H. Test reporting procedures
- I. Non-compliant material/work procedures.
- J. Plot results of testing on control charts for each characteristic within one Working Day as results become available. Plot the following:
 - 1. Asphalt cement content.
 - 2. Volumetrics (air voids, voids in mineral aggregates [VMA])
 - 3. Gradation values for the following sieves:

- a. #4 (4.75mm)
- b. #8 (2.36mm)
- c. #300 (0.075mm)

When any point of non-compliance with the QC plan, or Material not meeting the Specifications, comes to the attention of either the Contractor or the Engineer, notify the other party immediately. Take the appropriate correction actions established in the approved QC plan for any non-compliance. Failure to take corrective actions immediately will be cause for rejection of Material or Work by the Engineer

Significant violations of the QC Plan include:

- A. Knowingly using out of calibration or improperly functioning Equipment.
- B. Reporting false information such as test data, JMF information, or any other information
- C. Failure to perform Materials testing per the plant's approved QC Plan.
- D. Deviating from AASHTO or DelDOT testing procedures.
- E. Using non-approved JMF proportions or Materials.
- F. Using of the wrong PG graded asphalt.
- G. Failure to take corrective action per approved QC Plan.

The following steps will be taken for violations listed above in addition to rejection of the Material in the case of failure to meet JMF requirements:

- A. First Offense: Written notice of violation to the Contractor
- B. Second Offense: Within 1 year from the date of the first offense, written notice of violation to the Contractor.
- C. Third Offense: Within 1 year from the date of the second offense, written notice of violation and immediate suspension of the production facility until corrective actions are taken and approved by the Engineer.
- D. Subsequent violations within 1 year of a third offense will follow protocol established for third offense.

1014.04 JOB MIXTURE FORM YAS (JMF)

Develop and submit a lob mix formula for approval for each mixture according to AASHTO R35 on superpave mixture design software prior to starting production of a new mixture. Each mix design shall be capable of being produced, placed, and compacted to specified. Assign a unique identification number to each JMF.

JMF submission must include:

- A. Design of component Materials
 - 1. Source of each component and expected proportion (within 1 percent for aggregate components and 0.1 percent for other components).
 - 2. RAP is a separate component.
 - 3. RAS is a separate component.
- B. Target characteristic value
 - 1. Mixing temperature range
 - 2. Core temperature range for gyration
 - 3. Percent asphalt cement component (total and virgin)

19039

- 4. Percent aggregates retained on sieve as shown in AASHTO R35
- C. Plot of the percent asphalt binder by total weight of the mix (P_b) versus
 - 1. % Gmm at all Na
 - 2. VMA at all N_d
 - 3. VFA at all Na
 - 4. Fines to effective asphalt binder (Pbe) ratio
 - 5. Unit weight (kg/m) at both N_d and N_m
- D. Summary of the consensus property standards test results for individual aggregates in design aggregate structure.
- E. Summary of source property standards test results for the individual aggregates in design aggregate structure.
- F. Target value of the asphalt binder content.
- G. G. table of the asphalt mixture for four trial asphalt binder contents determined according to AASHTO T209.
- H. Test data with each JMF and tests performed by a Quality Laboratory on representative Materials verifying the design adequacy. Refer to Specifications for each mix type in order to determine the design requirements. JMF sieve percentage values conforming to the ranges shown in AASHTO R35.
- I. Raw Material of each JMF so ignition oven calibration correction numbers can be established for the Engineer's and Contractor's ovens. The Engineer will provide an ignition oven correction number for each JMF.
- J. Test tensile strength ratios (TSR) values on 6 inch diameter samples.

1014.04.1 JMF DESIGN PARAMETER

Use combined aggregates conforming to the gradation requirement specified in the following table when tested according to AASHTO X11 and AASHTO T27.

Table 1014-3

	Nominal Maximum Aggregates Size Control Points, % Passing									
	25	0 mm	19	0.0 mm	12	2.5 mm	9	.5 mm	4.	75 mm
Sieve Size	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
37.5 mm	100									
25.0 mm	90	100	100							
19.0 mm		90	90	100	100					
12.5 mm				90	90	100	100		100	
9.5 mm						90	90	100	95	100
4.75 mm								90	90	100
2.36 mm	19	45	23	49	28	58	32	67		
1.18 mm									30	60
0.075 mm	1	7	2	8	2	10	2	10	6	12

R G ARCHITECTS, LLC 19039 Note: The aggregate's gradation for each sieve must fall within the minimum and maximum limits.

The combined aggregate in the mixture must have a minimum percent moisture sensitivity per AASHTO T283 of 80.

Satisfy the volumetric criteria of the target asphalt cement content, noted below, for the design aggregate structure:

Table 1014-4

Volumetric Property	Target Value	Plant Production Tolerance
Air Voids (Va) at N _{design} (%)	4	±2
Voids in Mineral Aggregate (VMA) at N _{design}		
25.0 mm Bituminous Concrete Base Course	12.5	
19.0 mm Type B Bituminous Concrete	13.5	
12.5 mm Type C Bituminous Concrete	14.5	-1.5 to ± 2.0 from target
9.5 mm Type C Bituminous Concrete	15.5	
4.75 mm Type C Bituminous Concrete	16.5	

The Primary Control Sieve (PCS) defines the break point of fine and course mixtures. Classify the combined aggregates as coarse graded when it passes below the Primary Control Sieve (PCS) control point as defined below. Classify all other gradations as fine graded.

Table 1014-5

PCS Control Point for Mixture Nominal Maximum Aggregate Size (NMAS)(%Passing)					
NMAS	25.0 mm	19.0 mm	12.5 mm	9.5 mm	4.5 mm
Primary Control Sieve	4.75 mm	4.75 mm	2.36 mm	2.36 mm	1.18 mm
PCS Control Point	40	47	39	47	30-60

For any roadway with a minimum average daily traffic volume (ADT) of 8000 vehicles and a posted speed of 35 mph or greater, the aggregate blend is required to be non-carbonate. The coarse aggregate (aggregate larger than or equal to #8 stone) must be a non-carbonate source. If RAP is used in the mixture, coarse aggregate (larger than or equal to #8 stone) must be equal to a minimum of half the RAP percentage in the mix

1014.04.2 APPROVAL OF JMF

The Engineer will have up to three weeks once the JMF is submitted to review the submitted information.

1014.05 LABORATORY TESTING

Establish, maintain, and operate a qualified testing laboratory at the production plant site of sufficient size and layout that will accommodate the testing operations of both the Contractor and the Engineer.

Laboratory facilities must meet requirements listed in <u>LB-21</u> located in the Section E of <u>Delaware</u>

Department of Transportation's Materials and Research Manual.

1014.06 MATERIAL PRODUCTION REQUIREMENTS

Notify the Department's Materials and Research Section of the quantity and time of scheduled release by 3:00P.M. the day prior.

1014.06.01 MATERIAL PRODUCTION TESTING EQUIPMENT

Maintain all the Equipment used for handling, preparing, and testing Materials in proper operating condition. A laboratory Equipment malfunction must be remedied within one Working Day or the production will be suspended. In the case of an Equipment malfunction, the Contractor must develop a solution approved by the Engineer to allow for testing requirements to be met.

Document and maintain calibration records for the following referenced equipment, at a minimum, in accordance to manufacturer's guidelines:

- A. SUPERPAVE Gyratory Compactor: once every year
- B. Ovens: once every three months
- C. Vacuum Container and Gauge (Rice Bowls): once every three months, verified once every month
- D. Balances and Scales: once every year
- E. Thermometers: once a year, verified once every month
- F. Gyratory Compactor molds and base plates: once every year
- G. Mechanical Shakers: once every year

Verify sieve conditions daily by visual inspection.

Document and file all calibrations for review by the Engineer at any time.

1014.06.2 MATERIAL PRODUCTION TEST METHODS

Perform Material production tests in accordance with the following:

- A. AASHTO T312 Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens my means of the Superpare Gyratory Compactor.
- B. AASHTO T166, Method C (Rapid Method) Bulk Specific Gravity of Compacted Hot Mix Asphalt (HMA) using saturated surface dry specimens.
- C. AASHTO-T308 Determining the Asphalt Binder Content of Hot Mix Asphalt (HMA) by the Ignition Method.
- D. AASHTO T30 Mechanical Analysis of Extracted Aggregate
- E. AASPTO T209 Theoretical Maximum Specific Gravity and Density of Hot Mix Asphalt (HMA)

1014.06.3 PLANT PRODUCTION

Operate plants per the manufacturer's recommendations.

Allow access at all times to all parts of the mixing plant for checking the adequacy of the Equipment in use, inspecting the conditions and operation of the plant, verifying the weights of proportions and character of Materials, and determining and checking the temperatures being maintained in the preparation of the mixtures.

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1014.07 ANTI-STRIPPING ADDITIVE BLENDING

If required, blend anti-stripping additive per manufacturer's recommendations.

1014.08 SILO STORAGE SYSTEMS

Convey mixture from the plant to the storage system without a reduction in temperature and with no segregation of the mix or oxidation of the asphalt to ensure compliance of delivered material

Storage of mixture is permitted for a maximum of 12 hours.

END OF SECTION 32 12 10

SECTION 32 12 13 TACK COAT

PART 1 – GENERAL

1011.01 MATERIAL REQUIREMENTS

Emulsion meeting AASHTO M316 CRS-2P cut with equal amounts of water giving a minimum asphalt content after dilution of 31 percent recovery by distillation.

For thin lift maintenance Contracts, typically less than 1-1/2 inches thick, use PG6422 as the tack coat in lieu of emulsified asphalts.

END OF SECTION 32.12.13

R G ARCHITECTS, LLC TACK COAT 19039 32 12 13-1

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SECTION 32 12 16

ASPHALT CEMENT

PART 1 – GENERAL

1012.01 MATERIAL REQUIREMENTS

Asphalt Cement (PG Graded). Per AASHTO M320, Table 1 and tested per AASHTO R22 with the following exceptions:

- A. Original DSR will be 1.00 to 2.20 kPa
- B. Substitution of a higher upper temperature grade than specified in the contract will require prior approval by the Engineer
- C. Use of recycled materials cannot raise the low temperature properties of the combined binder above -23°C as tested by AASHTO T313.

Asphalt Cement (MSCR Graded). Per AASHTO M332 and tested per AASHTO R29 with the following supplemental information:

- A. The standard test temperature is 64°C for all grades except 58S-28 which is 58°C.
- B. Highly polymer modified asphalts for Extremely High Grade, PG 64E-22, must meet the following equation, \$\$^{8}_{3,2} (29.371 * Jnr.)\$
- C. Use of recycled materials cannot raise the low temperature properties of the combined binder above -23°C as tested by AASHTO T313.

END OF SECTION 32 12 16

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SECTION 32 12 33

BITUMINOUS PAVEMENT MATERIALS PATCHING

PART 1 – GENERAL

402.01 DESCRIPTION

Patch Portland cement concrete and bituminous pavement with bituminous pavement Materials.

402.02 MATERIALS

Provide Materials as specified in:

Asphalt Cement Section 1012

Asphalt Production Section 10

Graded Aggregate Base Course Section 10

Recycled Asphalt Pavement (RAP) Section 1014

Recycled Concrete Aggregate (RCA) Section 1014

Joint Sealant Section 1042

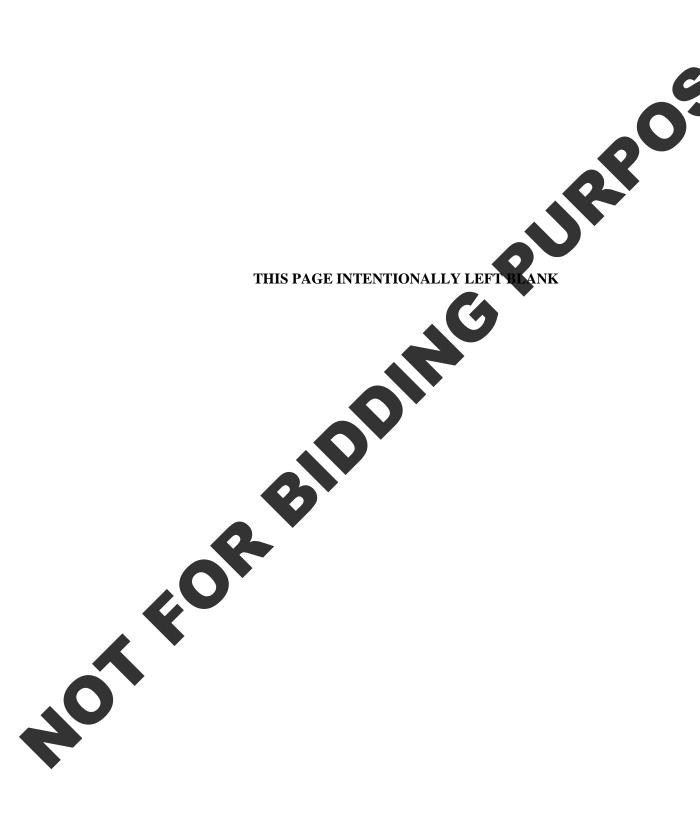
402.03 CONSTRUCTION

Perform operations in accordance with Section 301 Graded Aggregate Base Course and Section 401 Bituminous Pavements.

Saw cut pavement using a cutting machine capable of cutting a groove in a straight line to the required depth to allow removal of Material without damage to adjacent pavement.

Apply perimeter joint seal, per Standard Construction Details, if there is no overlay over patch.

END OF SECTION 32 12 33



SECTION 32 12 36

JOINT-CRACK SEALANT MATERIAL

PART 1 – GENERAL

1042.01 MATERIAL REQUIREMENTS

1042.01.1 ASPAHLT PAVEMENTS, PER CONTRACT DOCUMENTS

- A. Crack Sealing. ASTM D 5078
- B. Joint Sealing. ASTM D 6690 Type II

1042.01.2 PORTLAND CEMENT CONCRETE PAVEMENTS, PER CONTRACT DOCUMENTS:

- A. Joint Sealing. ASTM D 6690 Type II
- B. Preformed Elastomeric Compression Joint Seals. ASTM D 2628
- C. *Preformed Expansion Joint Material*. AASHTO M153, Type IV, Polyurethane bonded recycled rubber.

1042.01.3 PORTLAND CEMENT CONCRETE STRUCTURES, PER CONTRACT DOCUMENTS:

- A. Preformed Elastomeric Compression Joint Seals. ASTM D 2628
- B. *Rubber Joint Sealant*. Rubber joint sealant shall be a multipart chemically curing polyurethane or polysulfide sealant which neets or exceeds the curing requirements of ASTM C920. The color shall be a gray to match the concrete.
- C. *Joint Sealing*. ASTM D 6690 Type II or cold applied elastomeric sealant conforming to ASTM C 920.
- D. Preformed Expansion Joint Material. AASHTO M153, Type IV, Polyurethane bonded recycled rubber

1042.01.4 STRIP SEAL MATERIAL

Furnish elastomeric Material that is extruded 100 percent virgin Polychloroprene (Neoprene) in accordance with ASTM D 2628 with the recovery test omitted. The elastomeric Material shall also meet the following:

ASTM STANDARD	PHYSICAL PROPERTIES	PERFORMANCE REQUIREMENTS
D2240 (Modified)	Hardness	60±7 points, Durometer Type A
D412	Tensile Strength	2000 psi minimum
D412	Ultimate Elongation	250% minimum
D395 (Method B)	Compressive Set (70 hours at 212°F)	40% maximum
D573	Compressive Set (212°F)	40% maximum
D1630	Abrasion Resistance	Index of 200 or greater
D1149	Oxone Resistance 20% strain 300 pphm in air, 70h @ 140°F (wiped with tolune to remove surface contamination)	No cracks
D471	Oil Swell – ASTM Oil #3, 70 hours at 212°F, weight change	45% maximum
D2240	Low Temperature Stiffening – maximum 7 days at 14°F	15 points, Durometer Type A

1042.01.5 ASPHALT PLUG JOINT MATERIALS

a. Furnish steel closure place in accordance with the AASHTO M270, Grade 36 with the following dimensions: 0.25 inch thick, 8 inches wide, 4 feerlong, and perforated with 0.25 inch diameter holes along the centerline spaced at 1 foot maximum intervals.

B. Furnish binder Material that is modified elastomeric and in accordance with ASTM D 6690 and AASHTO M324 Type I. Binder Material shall also meet the following requirements:

ASTM STANDARD	PHYSICAL PROPERTIES	PERFORMANCE
		REQUIREMENTS
E28	Softening Point	83°C
D3407	Flow at 60°C	3 mm maximum
D5329	Penetration	90 maximum at 25°C
D5329	Resilience	40-70
D113	Ductility at 25°C	40 cm minimum
155329	Bond at -29°C, 50%	Pass 3 cycles
D5329	Bond at -18°C, 50%	Pass 3 cycles
D5329	Tensile Adhesion	700% minimum

C. Furnish aggregate Material consisting of Granite, Basalt, Gabbro, Porhyry, or Griststones.

Double wash and double crush aggregate to ensure angular and cubic formations such that less than 20 percent have a minimum dimension or thickness less than 0.6 of the mean of the normal size. Aggregate shall meet the following gradation requirements:

Sieve Size	Percent passing
1"	100
3/4"	85-100
1/2'	45-75
3/8'	20-45
1/4'	0-20
Washed #200	<1

D. Furnish backer rod consisting of closed cell foam capable of withstanding the temperature of the hot binder and sized per manufacturer's recommendations. Backer rod Material shall also meet the following requirements:

Density	2 psf minimum
Tensile Strength	30 psi minimum
Compression	5 psi minimum at 25%
Water Absorption	0.03 g/cc minimum by weight
Temperature at 210°C	No melting
Locating Pin	Galvanized 16D Common Nail (ASTM A153)

E. Furnish parapet joint seal that is either a two component viscous blend that can be used on vertical or near vertical faces or a self-leveling seal for use in sidewalks. The Material must be able to bond to both the asphaltic joint seal Material and concrete to create a wateright system. The Material shall also meet the following requirements:

ASTM STANDARD	PHYSICAL PROPERTIES	PERFORMANCE
		REQUIREMENTS
ASTM D5329	Flow (@93°C) 5 hrs.	Ŏ
ASTM D5329	Penetration @ 25°C, 150g, 5	80 dmm max.
	sec.	
ASTM D5329	Penetration @ -18°C, 200g,	18 dmm max.
	60 sec.	
ASTM D5329	Resilience @ 25°C	85% min.
ASTM D5329	Bond @ -20°C, 100% non-	Pass 3 cycles
	immersed	·
ASTM D5329	Bond @ -20°C, 100% water	Pass 3 cycles
	immersed	
ASTM D412	Tensile Adhesion	800% min.

1043.01 MATERIAL REQUIREMENT

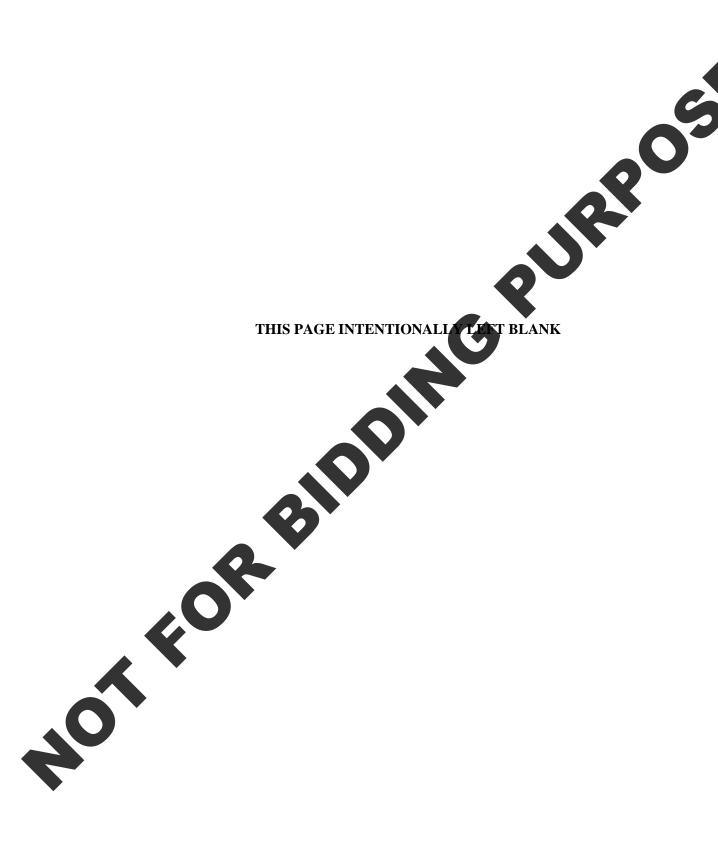
Use joint sealing backup material of a stitched cotton piping cord, polyethylene backer rod, or approved equal material that is compatible with the sealant to be used and capable of withstanding the required sealant application temperature without melting.

Stitched Cotton Piping Cord ASTM D 5249

Backer Rod ASTM D 5249

Provide back-up material, prior to installation, at least 25 percent wider than the nominal width of the joints. Size the diameter of the backup material/bond breaker so that when placed in the joint it will support at its design depth, allowing the sealant to achieve the design shape, prevent the sealant from leaking around and underneath it, and allow the sealant to deform freely when the joint expands and contracts.

END OF SECTION 32 12 36



SECTION 32 17 23

PAVEMENT MARKINGS

PART 1 – GENERAL

817.01 DESCRIPTION

Supply, install, and remove temporary or permanent pavement markings on the individual lifts of pavement material and the final surface of the roadway and install and remove raised recessed pavement markers as shown in the Contract Documents or as directed by the Engineer.

817.01.1 DEFINITIONS

Temporary Markings – Temporary markings are those markings that replace markings removed by milling or placing of pavement, and are placed on individual sub-lifts of paving materials or on final travel surfaces, and are kept in service for less than thirty (30) days. Apply as specified in the *Delaware Manual on Uniform Traffic Control Devices* ("DE MUTCO").

Permanent Markings – Permanent markings are all other markings that are not temporary markings. Apply permanent markings in accordance with the DE MUTCD.

Lane Line – Lane Lines are marking Material placed between lanes of traffic.

Edge Line – Edge Lines are marking Material placed on the right hand side of traffic traveling in opposite directions or both sides of a traveled way having one-way traffic.

Center Line – Center Lines are marking Material placed between lanes of traffic traveling in opposite directions on an undivided highway.

No Passing Zones — No Passing Zones apply to any center lines between opposing directions as on a two-lane, two-way roadway in accordance with the *DE MUTCD*, or as directed by the Engineer, for all temporary or permanent markings.

817402 MATERIALS

Provide Materials as specified in:

Pavement Markings

Section 1071

817.03 CONSTRUCTION

817.03.1 EQUIPMENT

A. Latex Paint Application Equipment

- 1. Use Equipment meeting the following minimum requirements to apply latex paint pavement markings
- 2. Paint Equipment
 - a. Be able to apply double center lines simultaneously unless otherwise approved by the Engineer.
 - b. Capability to apply paint and glass beads to pavement at same time, leaving no more than 2 inches of painted line without glass beads at the beginning or end of a fine.
 - c. Capability of hand gun operation for applying special markings. (This may be a separate piece of Equipment).

3. Truck-Mounted Paint Equipment

- a. Must have steerable gun carriages.
- b. Must apply double center lines simultaneously.
- c. Must be capable of pneumatically applying glass heads I inch behind the spray pattern of the paint gun at an average rate of 7 pounds per gallon of pigmented binder.
- d. Must have automatic electrically controlled skip the mechanism capable of retracing the existing markings or applying new markings in accordance with the DE MUTCD.
- e. The application speed of the paint machine greater than 10 miles per hour is not permitted unless approved by the Engineer.

B. Epoxy Application Equipment

- Use only application Equipment, approved by the Engineer prior to the start of work, for the placement of epoxy reflectorized pavement markings.
 At any time throughout the duration of the Project, provide free access to the epoxy
- 2. At any time throughout the duration of the Project, provide free access to the epoxy application equipment for inspection by the Engineer.
- 3. Use a truck-mounted and self-contained pavement marking machine, specifically designed to apply epoxy resin materials and reflective glass spheres in continuous and skip line patterns. Use only application Equipment that can be maneuvered to the extent that straight lines can be followed and normal curves can be made in a true arc. Use only truck mounted units with accessories that allow for the marking of legends, symbols, crosswalks, and other specific patterns.
- 4. The Engineer may approve the use of a portable applicator in lieu of truck-mounted accessories, for use in applying special markings only, provided such Equipment can demonstrate satisfactory application of reflectorized epoxy markings in accordance with these specifications.
- 5. For long line applications use applicators that are capable of installing up to 20,000 linear feet of epoxy reflectorized pavement markings in an 8-hour day and include the following features:

PAVEMENT MARKINGS R G ARCHITECTS, LLC 32 17 23 - 2 19039

- a. Use applicator with the ability to provide individual material reservoirs, or space, for the storage of Part A and Part B of the epoxy resin composition; for the storage of water; and for the storage of reflective glass spheres.
- b. Use applicator with heating Equipment of sufficient capacity to maintain the individual epoxy resin components at the manufacturer's recommended temperature for the spray application and for heating water to a temperature of approximately 140 degrees Fahrenheit.
- c. Gravity drop glass spheres onto 20 mils of epoxy pavement markings to produce a weinight-reflective pavement marking. Apply the large spheres (Federal Spec. TT-B-1324. Type IV) at a rate of 12 pounds per gallon of epoxy pavement marking material, immediately followed by a second drop of AASHTO M 247 Type 1 glass spheres applied rate of 12 pounds per gallon of epoxy pavement marking material. This application rate and the following gradation is required to conform to FHWA's FY TAX SANDARD Specifications for Construction of Roads and Bridges on February Away Projects (Type 3 and Type 4 Beads)
- d. Use an applicator with metering devices or pressure gauges, on the proportioning pumps. Ensure metering devices or pressure gauges are visible to the Engineer.
 e. Use an applicator with all the necessary spray Equipment, mixers, and compressors, and
- e. Use an applicator with all the necessary spray Equipment, mixers, and compressors, and other appurtenances to allow for the placement of epoxy reflectorized pavement markings in a simultaneous sequence of operations as described in Section 817.03.4D.

C. Alkyd Type Thermoplastic Equipment

- 1. Provide application Equipment conforming to the requirements of this Section and be mobile and maneuverable to the extent that straight lines can be followed and normal curves can be accomplished in a true arc. Provide heating kettle and application Equipment conforming to the requirements of the National Fire Protection Association and of the State.
- 2. Construct the Equipment used to install hot applied thermoplastic material by Contract under this Section to provide continuous uniform heating to temperatures exceeding 400 degrees Fahrenheit, mixing, and agitation of the material. Ensure the conveying parts of the Equipment between the main material reservoir and the line dispensing device prevent accumulation and clogging. Construct all parts of the Equipment which come in contact with the material to be easily accessible for cleaning and maintenance. Construct the Equipment so that all mixing and conveying parts up to and including the shaping dies will maintain the Material at the optimum plastic temperature.

17.03.2 GENERAL

- A. Place all pavement markings and patterns as shown in the Contract Documents, as specified in the DE MUTCD, and as directed by the Engineer.
- B. Before starting any pavement markings work, submit a schedule of operations for the approval of the Engineer. Submit this schedule two (2) weeks prior to the application of the striping.

- C. Protect all pavement markings until track free using a method approved by the Engineer. In the event any vehicle crosses wet pavement markings, remove the damaged markings by sand blasting, heat or other methods approved by the Engineer and replace marking.
- D. Install all necessary markings before the end of the workday. Whenever work is interrupted by weather, install the markings as soon as possible. Due to safety requirements, this Section overrules Section 108.03 which prevents work on Sundays and Holidays.
- E. Offset longitudinal lines at least 2 inches from construction joints and 2 inches to the inside of shoulder breaks of pavement.
- F. Perform the application of pavement markings in the general direction of traffic. Do not apply pavement markings against the direction of traffic flow.
- G. After satisfactory completion of all pavement marking work and written notification from the Contractor, the Department will test the markings to ensure the manufacture retroreflectivity and film thickness values have been met as defined in Section 1071 for the type of marking being tested. The testing will be completed within 30 calendar days from notification. The Contractor may request that tests be conducted on completed phases or portions of the work. Approval of such a request will be at the discretion of the Engineer. Pesting will be done using a Department-approved 30-meter geometry spectrometer. Five readings will be taken per line per mile in length will have a minimum of 5 readings per line. These readings will then be averaged for the overall Project average.
- H. Furnish to the Engineer the applicable warranty for the Material to be installed to ensure proper performance.
- I. On the pavement marking Equipment, furnish a suitable measuring device capable of determining the total number of linear feet of materials actually applied within a tolerance of ±2 percent. Calibrate this device a least wice weekly during marking operations. Provide proof of calibration to the Engineer upon request.

817.03.3 LATEX PAIN

A Temporary Paint

1. Apply temporary paint by the same methods as permanent paint, with the exception that temporary paint be applicated at approximately 7 mils. The temporary paint application of 7 mils is enough to retain sufficient amounts of beads to remain reflective.

B. Permanent Paint

1. Apply a heated pigmented binder (white and yellow) and optical glass spheres system to highway surfaces with specialized application equipment.

PAVEMENT MARKINGS R G ARCHITECTS, LLC 32 17 23 - 4 19039

- 2. Obtain the reflective surface by applying optical glass spheres in the specified ration onto and into the pigmented binder after the binder application in one operation using specialized equipment as described below.
- 3. During and after material application, both daylight and nighttime inspection of the markings will be made by the Engineer, and if found to be defective or if they fail in any way to meet these Specification, such markings will be rejected and shall be replaced at no cost to the Department within the time limit specified by the Engineer.

817.03.4 EPOXY PAVEMENT MARKINGS

A. General

- 1. At least five (5) days prior to starting striping, provide the Engineer with the epoxy manufacturer's written instructions for use. Include instructions regarding, but not be limited to: mixing rations, application temperatures, and recommendations for use of water spray.
- 2. To the satisfaction of the Engineer, remove tracking marks, spilled epoxy or errantly applied epoxy markings.
- 3. Do not use the hot water spray in conjunction with markings applications on any pavement surface, or on any existing durable type marking, unless specifically recommended by the manufacturer of the epoxy material.
- B. Apply epoxy pavement markings only during conditions of dry weather and on substantially dry pavement surfaces. At the time of installation, ensure the pavement surface temperature be a minimum of 35 degrees Fahrenheit and the ambient temperature be a minimum of 35 degrees Fahrenheit and rising. The Engineer will determine when atmospheric conditions and pavement surface conditions are appropriate to produce satisfactory results.
- C. Prepare the surface to which marking material is to be installed as follows:
 - 1. Clean the pavement or existing durable markings to the satisfaction of the Engineer.
 - 2. Perform surface cleaning and preparation work only in the area of the epoxy markings application.
 - 3. At the time of application, ensure <u>all</u> pavement surfaces and existing durable markings are fee of oil, dirt, dust, grease, and similar foreign materials. Waterblasting will not be permitted for removal.
- D. Application of White/Yellow Epoxy Reflectorized Pavement Markings
 - 1. Place white/yellow epoxy reflectorized pavement markings at the widths and patterns designated in the Contract Documents.
 - 2. Do not being markings operations until applicable surface preparation work is completed and approved by the Engineer.

- 3. Apply white/yellow epoxy pavement markings at a minimum uniform thickness of 20 mils on all portland cement concrete and bituminous concrete pavement, including Stone Matrix Asphalt.
- 4. Apply large reflective glass spheres (Federal Spec. TT-B-1325, Type IV) at the rate of 12 pounds per gallon of epoxy pavement marking material, immediate followed by a second drop of AASHTO M 247 Type I glass spheres applied at a rate of 12 pounds per gallon of epoxy pavement marking material. Uniformly cover the length and width of the pavement marking with the glass spheres.
- E. Application of Black Epoxy Contract Pavement Markings
 - 1. Place black epoxy contract pavement markings at the widths designated in the Contract Documents.
 - 2. Do not being markings operations until applicable surface preparation work is completed, and approved by the Engineer.
 - 3. Apply black epoxy contrast pavement markings at a minimum uniform thickness of 20 mils on all portland cement concrete surfaces followed by a single drop of graded black aggregate.
- F. Repair epoxy reflectorized pavement markings, which after application and curing are determined by the Engineer to be defective and not in conformance with this Section. Perform the repair of defective markings to the satisfaction of the Engineer as follows:
 - 1. Insufficient film thickness (less than 20 ±1 suils as applicable), insufficient line widths, insufficient glass bead coverage or inaccurate glass bead retention:
 - a. Prepare the surface of the defective epoxy marking by shot blasting, sand blasting, or water blasting. No other cleaning methods will be allowed. Perform surface preparation to the extent that a substantial amount of the reflective glass spheres are removed and a roughened epoxy marking surface remains.
 - b. Immediately after surface preparation, remove loose particles and foreign debris by brooming or blasting with compressed air.
 - c. Make the repair by re-striping over the cleaned surface, in accordance with the requirements of this Section and at a full 20 ± 1 mils minimum line thickness as required.
 - 2. Uncured or discolored epoxy (brown patches), insufficient bond to pavement surface (or existing durable marking).
 - Uncured epoxy is defined as applied Material that fails to cure (dry) in accordance with the marking manufacturer's requirements or applied material that fails to cure (dry) within a reasonable time period under actual field conditions, as defined by the Engineer.
 - b. Discoloration (brown patches) is defined by localized areas or patches of brown or grayish colored epoxy marking material. These areas often occur in a cyclic pattern and also, often are not visible until several days or weeks after markings are applied.
 - c. Repair the uncured, discolored or insufficiently bonded epoxy as follows:
 - i. Completely remove and clean the defective epoxy marking to the underlying pavement surface to the satisfaction of the Engineer.

PAVEMENT MARKINGS R G ARCHITECTS, LLC 32 17 23 - 6 19039

- ii. Remove the defective area plus any adjacent epoxy paving marking material extending one foot in any direction.
- iii. After surface preparation work is complete, re-apply the epoxy over the cleaned pavement surface in accordance with the requirements of this Section.
- 3. Repair or replace to the satisfaction of the Engineer other defects not noted above, but determined by the Engineer to need repair.
- 4. Perform all work in conjunction with the repair or replacement of defective epoxy reflectorized pavement markings at no additional cost to the State.

G. Reflectivity Tests:

- a. The Department will test the retroreflectivity of epoxy pavement markings in accordance with Section 817.03.2. Provide minimum retroreflectivity values for epoxy pavement markings conforming to Section 1071 Pavement Markings.
- Remove and replace, at the Contractor's expense, any pavement marking installed that does
 not meet the average minimum initial reflectivity numbers specified in Section 1071 –
 Pavement Markings.

817.03.5 THERMOPLASTIC PAVEMENT MARKING

A. Alkyd Type Thermoplastic Material

- 1. Do not apply thermoplastic pavement markings on portland cement concrete.
- 2. For optimum adhesion, install the thermoplastic material in a molten state at a temperature between 400 to 425 degrees Fahrenheit on a clean, dry, and solvent free surface. Clean off pavement surface dirt and grease where necessary by approved removal methods. Do not apply thermoplastic pavement marking material when pavement temperatures are below 50 degrees Fahrenheit of when the surface of the pavement shows evident moisture.
- 3. If recommended by the Manufacturer of the thermoplastic material, and if required by the Department, apply a primer sealer prior to the installation of thermoplastic material on the pavement. Ensure that the primer is void of solvent and water prior to the installation of thermoplastic material.
- 4. Readily apply the material to the pavement from either manual or self-propelled application equipment by the screed/extrusion method wherein one side of the shaping die is the pavement and the other three sides are contained by a part of suitable equipment for heating and controlling the flow of material.
- 5. The material, when formed into traffic stripes, must be readily renewable by placing an overlay of new material directly upon any type of old thermoplastic line, provided that the initial material was properly bonded, or on worn paint line showing considerable pavement exposure. Ensure that new material bonds to the old line in such a manner that no splitting or separation takes place.
- 6. Apply glass spheres to the surface of the completed stripe by drop-on or pressure spray methods at an approximate uniform rate of 0.1 pounds of glass spheres every square foot (0.033 pounds per foot of 4 inches) from an automatic dispenser attached to the striping

machine so that the glass spheres are dispensed closely behind the installed line. Use only the glass sphere dispenser equipped with an automatic cut-off control synchronized with the cutoff of the thermoplastic material.

7. Marking Patterns:

- a. Provide a thickness measurement, prior to application of drop-on glass beads, of 0.125 inches for transverse lines and symbols (crosswalks, stop bars, and arrows) and 0.092 inches for longitudinal lines (lane lines, center lines, and edge lines).
- b. Calibrate by placing black tapes, film, or metal plates of known and uniform that the areas to be striped. Once the striper has passed over, remove the sample sharp cuts with a knife and measure the stripe plus base with a micromet calipers with a proper correction for the base.
- c. Offset longitudinal lines in accordance with Section 817.03.2. Provide openings 6 inches in length at 20 foot intervals in edge lines placed on the inside of s per elevated curves to prevent ponding of water on the pavement surface.
- d. The finished lines are required to have well-defined edges

8. Reflectivity Tests:

- a. The Department will test in accordance with section 817.04A, the retroreflectivity of thermoplastic pavement markings for minimum requirements as specified in the Section 1071 – Pavement Markings.
- b. For thermoplastic markings with retrore lectivity readings below the minimums specified in Section 1071 – Pavement Markings and above the 125 millicandelas, pavement for the markings will be reduced as described under 817.04.
- Remove and replace, at the Contractor's expense, any pavement marking installed that has an average minimum initial reflectivity below 125 millicandelas.

9. Guarantee for Alkyd-Type Thermoplastic Material

- Acceptance of the work will be contingent upon successful completion of a 180-day observation period under traffic, beginning upon the satisfactory completion of all striping work required by the Contract.
- rovide warranty for the thermoplastic markings material furnished and installed under this contract against failure due to blistering, excessive cracking, bleeding, staining, oloration, oil content of the pavement materials, smearing and spreading under heat, deterioration due to contact with grease deposits, oil, diesel fuel, or gasoline drippings, chipping, spalling, poor adhesion to the pavement materials, vehicular damage, and wear for a period of 180 days of observation period.
- Replace any markings that have not performed satisfactory during the 180-day observation at no expense to the Department.
- d. Perform marking replacements in accordance with the requirements specified in this Section, including but not limited to possible surface cleaning, pavement marking removal, seasonal and weather limitations, etc.

PAVEMENT MARKINGS R G ARCHITECTS, LLC 19039

B. Preformed Thermoplastic Markings

- 1. Apply the markings in accordance with the Manufacturer's recommendations on clean and dry surfaces.
- 2. Use preformed retroreflective thermoplastic material that is fusible to the pavement by means of a propane torch in accordance with the marking manufacturer's requirements. Preheat the surface to remove any latent moisture just prior to the placement and installation of the marking.
- 3. Do not place any markings when the ambient temperature is below 40 degrees Fahrenheit. Store the material in a location above 55 degrees Fahrenheit until just before application.
- 4. At no cost to the State, secure the supplier's technical services as required by the Engineer
- 5. Reflectivity Tests:
 - a. The Department will test in accordance with Section 817.03.2. The retroreflectivity of preformed thermoplastic markings for minimum requirements as specified in Section 1071 – Pavement Markings.
 - b. Remove and replace, at the Contractor's expense, any preformed thermoplastic markings installed that has an average minimum initial reflectivity below the values defined in Section 1071 Pavement Markings.
- C. Extend warranty to the Department that the installed retroreflective preformed thermoplastic pavement markings are free of defects, as hereafter defined, for a period of one winter season beginning at the initial acceptance of the marking installation by the Department.
 - 1. The initial acceptance of the marking histaliation will occur upon the satisfactory correction of all deficiencies noted in the marking installation during the Final Inspection of the Project.
 - 2. Warrant against failure due to blistering, excessive cracking, bleeding, staining, discoloration, oil content of the pavement materials, smearing and spreading under heat, deterioration due to contact with grease deposits, oil, diesel fuel, or gasoline drippings, chipping, spalling, poor adhesion to the pavement materials, vehicular damage, and wear from maintenance activities including snow playing.
- D. Repair all defective areas identified by the Department after initial installation or during warranty period.
 - 1. Begin all repairs immediately following the notice to the Contractor by the Department unless weather limitations prevent the corrective work.
 - 2. Should the Contractor not commence work within the period stated in the notice, weather permitting, and pending severity, the Department reserves the right to remedy the condition and charge the Contractor for the work.
 - 3. Perform corrective work as recommended by the Manufacturer of the marking material and approved by the Department.
 - 4. Give the Department notice before beginning corrective work to allow for inspection of the operation.
 - 5. Perform all remedial work including but not limited to, removal, material, maintenance of traffic, and reconstruction at no cost to the State.

817.03.6 PAVEMENT MARKING TAPE

A. Temporary Tape

- 1. Place temporary pavement marking tape in work zones at the locations depicted in the Contract Documents and as required by the Engineer.
- 2. Configure pavement marking configurations in accordance with the DE MUTCD.
- 3. Apply pavement markings to clean, dry surfaces in accordance with the Manufacturer's installation instructions or a method approved by the Engineer.
- 4. Maintain and replace temporary pavement marking tape without additional compensation until the markings are no longer required.
- 5. Reflectivity Tests:
 - a. The Department will test in accordance with Section 817.03.2. The retroreflectivity of temporary pavement markings tape for minimum requirements as specified in the Section 1071 Pavement Markings.
 - b. Remove and replace, at the Contractor's expense, any temporary marking tape installed that has an average minimum initial reflectivity below the values defined in Section 1071 Pavement Markings.

B. Preformed Marking Tape

- 1. Certify the Contractor, by the Manufacturer, in the installation of the pavement marking material prior to the start of the markings.
- 2. Install the pavement marking material in accordance with the Manufacturer's published recommendations.
- 3. Arrange to have a Manufacturer's representative, or qualified personnel, onsite to oversee all operations and to ensure successful installation of markings, training, product information, and problem solving as required by the Engineer.
 - a. Qualifying Personnel. Submit for approval, a minimum of 5 years of documented history with experience in the use and placement of the material. A manufacturer's letter of certification as an approved installer may also be accepted.
- 4. Perform installation of the pavement markings in a neat and workman-like manner. Pre-mark the pavement to ensure the correct location of markings and such layout work is incidental to the price bid for the pavement marking items. The method for pre-marking should be as recommended by the Manufacturer. A thin layer of paint as a pre-marking is not recommended. Take care to ensure that the leading edges of the markings are secured to the pavement.
- 5. General application Rules:
 - a. Do not apply tape when the air and surface temperature is below 40 degrees Fahrenheit.
 - b. Apply tape on a clean and dry pavement surface after 24 hours of dry weather and no rain is expected for the day.
 - c. When not place by inlaid method, use a surface preparation adhesive.

PAVEMENT MARKINGS R G ARCHITECTS, LLC 32 17 23 - 10 19039

- d. Do not overlap tape, use a butt splice.
- e. Do not apply tape on longitudinal joints or cracks.
- f. Do not apply tape on deteriorating pavement surfaces.
- g. Ensure that the markings are ready for use by traffic immediately upon application.

6. Inlay into Fresh Bituminous Concrete

- a. When marking tape is specified in the Contract for newly paved asphalt concrete surfaces, apply the marking tape before traffic is allowed on the freshly paved surface
- b. Inlay the pavement markings in the fresh pavement surface during final rolling of the mat, in accordance with the marking Manufacturer's recommendations.
- c. Inform the Engineer how the pavement mats will be placed to avoid applying the tape on longitudinal joints or cracks and maintain correct marking location
- d. Pre-mark the pavement and install the markings such that all markings are inlaid into the hot pavement prior to the finish rolling. Do not perform paving operation unless the stripping crew, marking material and equipment are on the project site.
- e. General procedure for inlay application on fresh asphalt surfaces:
 - i. Apply tape after the compaction roller and before the finish roller using minimum water, slow speed, and no vibration.
 - ii. Apply tape using Equipment recommendation by Manufacturer.
 - Tamp the marking tape by the finish roller rolling in the same direction the tape was applied. A separate roller of a size approved by the tape Manufacturer may be required to meet the Manufacturer's requirements.
 - iv. Roll the tape with a minimum roller speed to prevent wrinkling of the tape.
 - v. Apply marking tape only when the mat temperature is within the range specified by the tape manufacturer.
 - vi. NOTE Even though the tape will stand these high temperatures, the contractor is to use caution to assure the asphalt is firm enough to walk on above 140 degrees Fahrenheit.

7. Placement on new Portland cement concrete (P.C.C.) Pavement

- a. When marking tape is specified in the Contract for new P.C.C. pavement surfaces, apply the marking taper after the concrete has adequately cured as determined by the Engineer and prior to opening to traffic.
- Remove any membrane curing compounds from the P.C.C. surface by sandblasting prior to applying the marking tape. Sweep and clean the road surface using high pressure air after curing compound removal.
- c. Use only the primer/solvent specified by the Manufacturer for the pavement surface.
- d. Apply the tape using an approved applicator.
- e. Tamp the tape with a roller tamper cart with a minimum of 200 pound load or by slowly (2-3 miles per hour) driving over the tape with a vehicle tire. Do not twist or turn on the tape. Perform a minimum three passes back and forth over the tape. Thoroughly tamp all edges of tape.

8. Placement on Existing Pavement

- a. Ensure that the pavement surface is free of any existing markings when the tape is specified in the Contract to be place on an existing pavement.
- b. Sweep and clean the road surface using high pressure air.
- c. Use only the primer/solvent specified by the Manufacturer for the pavement surface.
- d. Apply the tape using an approved applicator.
- e. Tamp the tape with a roller tamper cart with a minimum of 200 pound load or by slowly (2-3 miles per hour) driving over the tape with a vehicle tire. Do not twist or turn on the tape. Perform a minimum three passes back and forth over the tape. Thoroughly tamp all edges of tape.

9. Reflectivity Tests:

- a. The Department will test in accordance with Section 817.03.2. The retroreflectivity of permanent pavement marking tape for minimum requirements as specified in the Section 1071 Pavement Markings.
- b. Remove and replace, at the Contractor's expense, any preformed pavement markings tape installed that has an average minimum initial reflectivity below the values defined in Section 1071 Pavement Markings.

C. Blackout Tape

1. Use blackout tape to completely cover the existing pavement markings. Use tape that is 2-inches wider than the existing pavement marking to ensure complete coverage. Prepare pavement surface, apply tape and remove tape as per the Manufacturer's recommendations. Correct, at the Contractor's expense, any failure of the tape to remain in place or adequately mask the existing pavement markings.

817.03.7 If any of the existing pavement markings are damaged or removed due to the removal blackout tape, restore the existing markings as directed by the Engineer at the Contractor's expense.

817.03.8 RAISED/RECESSED PAVEMENT MARKERS

- A. Install raised/recessed pavement markers as specified below:
 - 1. Saw cut the pavement to match the bottom contour of the marker housing using a saw and blade suitable for the pavement material being sawed.
 - a. The depth of the cut shot must allow the housing to be set in epoxy, with leveling lugs resting on a pavement surface, so that the front edge of marker is at or below the surface of the pavement.
 - b. Repair excessive saw cuts to the satisfaction of the Engineer.

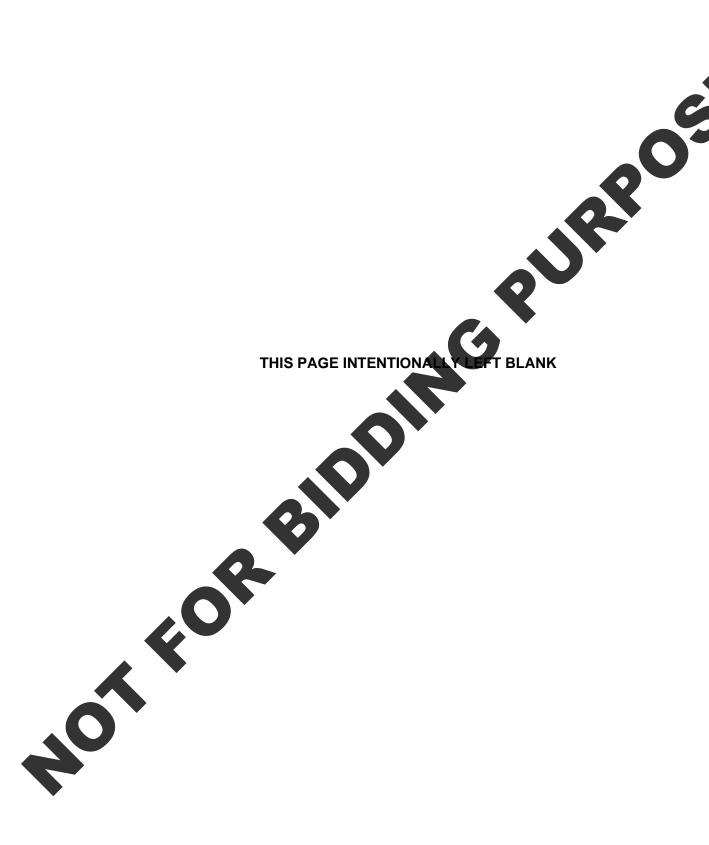
PAVEMENT MARKINGS R G ARCHITECTS, LLC 32 17 23 - 12 19039

- c. Only use the truck mounted saw cutting devices. Do not use walk behind or hand cutting saw devices.
- 2. When cutting is complete, clean the slot as recommended by the Manufacturer of the epoxy material.
- 3. Install the epoxy and pavement marker in the prepared contour slot in the pavement per the Manufacturer's recommendations. Do not leave the prepared contour slot unfilled.
- B. Replace existing raised/recessed pavement marker lenses as specified below:
 - 1. Remove the existing reflective pavement marker lenses from the metal housing
 - 2. Clean the metal casing as recommended by the Manufacturer prior to the replacement of the new lenses.
 - 3. Apply an approved epoxy adhesive to the back of the new lenses and install the new lens.
- C. Remove existing raised/recessed pavement marker lens or housing assembly as specified below:
 - 1. If only lens removal is required by the Contract Documents, remove the existing lens in a manner that will not cause damage to the casting and in accordance with the Manufacturer's recommendations.
 - 2. If the entire housing is required to be removed, remove the entire housing from the pavement surface using a method that is approved by the Engineer. Fill the void in the pavement surface with the pavement patching material as required by the Engineer.

817.03.9 REMOVAL OF PAVEMENT MARKING PAINT OR TAPE

- A. General pavement marking removal requirements:
 - 1. Perform the removal operation in a manner that will not damage the pavement surface.
 - 2. Collect and dispose of all shot/abrasive grit and pavement marking materials removed from the pavement surface. Do not wash or sweep such material to the roadside.
 - 3. After removal of striping on bituminous concrete, use an approved flat black paint or asphalt sealer to cover any exposed aggregate or embedded paint.
- B. Use alrot/abrasive grit blasting or water blasting equipment to remove pavement marking paint and enoxy resins.
- Burning or grinding (erasing machines) equipment may be used in lieu of shot/abrasive grit blasting or water blasting for the remove of alkyd thermoplastic markings, temporary marking tape, or preformed marking tape.

END OF SECTION 32 17 23



PAVEMENT MARKINGS R G ARCHITECTS, LLC 19039