

The Solanco School District New District Administrative Offices & Athletic Fields

VOLUME 1 DIVISIONS 0 and 1 PROJECT MANUAL

CRA PROJECT NO. 3706

CONFORMED SET - July 8, 2026



CONFORMED SPECIFICATIONS

THE FOLLOWING SPECIFICATIONS HAVE BEEN REVISED TO INCLUDE ADDENDA ITEMS. SPECIFICATIONS SETS ARE BEING ISSUED AS A CONVENIENCE TO ALL PARTIES INVOLVED IN ORDER TO EXPEDITE THE COORDINATION AND CONSTRUCTION OF THIS PROJECT. THESE SPECIFICATIONS ARE NOT CONTRACT DOCUMENTS. IF ANY CONFLICTS OR DISCREPANCIES ARISE BETWEEN THESE DOCUMENTS AND THE ORIGINAL CONTRACT DOCUMENTS AND ADDENDA, THE ORIGINAL CONTRACT DOCUMENTS AND ADDENDA TAKE PRECEDENCE.

Crabtree, Rohrbaugh & Associates - Architects

401 East Winding Hill Road, Mechanicsburg, PA 17055

www.cra-architects.com

P: 717.458.0272

Maryland • Pennsylvania • Virginia • West Virginia

VOLUME 1

PROJECT MANUAL

FOR

**NEW DISTRICT ADMINISTRATIVE
OFFICES & ATHLETIC FIELDS**

FOR THE

**THE SOLANCO SCHOOL DISTRICT
121 South Hess Street
Quarryville, PA 17566**



**CRABTREE, ROHRBAUGH & ASSOCIATES
ARCHITECTS**

401 East Winding Hill Road
Mechanicsburg, Pennsylvania 17055

ARCHITECT'S PROJECT NO. 3706

TABLE OF CONTENTS
VOLUME 1 - PROJECT MANUAL

BIDDING REQUIREMENTS, CONTRACT FORMS AND CONDITIONS OF THE CONTRACT

SECTION 000005	COPYRIGHT
SECTION 000010	ADVERTISEMENT FOR BIDS (ADDENDUM 3)
SECTION 000100	INSTRUCTIONS TO BIDDERS (AIA DOCUMENT A701-2018)
SECTION 000101	SUPPLEMENTARY INSTRUCTIONS TO BIDDERS
SECTION 000301	BID FORM - CONTRACT 3706-1 GENERAL CONSTRUCTION (ADDENDUM 5)
SECTION 000302	BID FORM - CONTRACT 3706-2 SITE CONSTRUCTION (ADDENDUM 5)
SECTION 000303	BID FORM - CONTRACT 3706-3 HVAC CONSTRUCTION (ADDENDUM 5)
SECTION 000304	BID FORM - CONTRACT 3706-4 PLUMBING CONSTRUCTION (ADDENDUM 5)
SECTION 000305	BID FORM - CONTRACT 3706-5 ELECTRICAL CONSTRUCTION (ADDENDUM 5)
SECTION 000420	CONTRACTOR'S QUALIFICATION STATEMENT (AIA DOCUMENT A305)
SECTION 000429	NON-COLLUSION AFFIDAVIT OF CONTRACTOR
SECTION 000460	NON-DISCRIMINATION AFFIDAVIT
SECTION 000500	STANDARD FORM OF AGREEMENT BETWEEN OWNER & CONTRACTOR (STIPULATED SUM) (AIA DOCUMENT A101-2017)
SECTION 000510	PUBLIC SCHOOL CODE AGREEMENT
SECTION 000515	EMPLOYMENT VERIFICATION ACT
SECTION 000520	AFFIDAVIT ACCEPTING PROVISIONS OF THE WORKMAN'S COMPENSATION ACTS
SECTION 000550	BID BOND (AIA DOCUMENT A310)
SECTION 000600	PERFORMANCE & PAYMENT BONDS
SECTION 000700	GENERAL CONDITIONS OF CONTRACT FOR CONSTRUCTION (AIA DOCUMENT A201-2017)
SECTION 000750	SUPPLEMENTARY GENERAL CONDITIONS
SECTION 000800	SPECIAL CONDITIONS FOR EDUCATIONAL PROJECTS
SECTION 000860	PA TAX EXEMPT ENTITIES DISCLOSURE
SECTION 000900	PREVAILING MINIMUM WAGE PRE-DETERMINATION
SECTION 000910	PREVAILING WAGE RATES
SECTION 000920	GEOTECHNICAL REPORT (ADDENDUM 4)

DIVISION 1 – GENERAL REQUIREMENTS

SECTION 011000	SUMMARY OF WORK (ADDENDUM 5)
SECTION 012200	UNIT PRICES
SECTION 012300	ALTERNATES (ADDENDUM 5)
SECTION 012500	SUBSTITUTIONS
SECTION 012600	MODIFICATION PROCEDURES
SECTION 012700	CUTTING AND PATCHING
SECTION 012800	FIELD ENGINEERING
SECTION 012900	APPLICATIONS FOR PAYMENT
SECTION 013100	PROJECT COORDINATION
SECTION 013150	PROJECT MEETINGS
SECTION 013200	CONSTRUCTION PROGRESS DOCUMENTATION
SECTION 013300	SUBMITTALS
SECTION 014000	QUALITY REQUIREMENTS
SECTION 014100	SAFETY

SECTION 015000	TEMPORARY FACILITIES & CONTROLS
SECTION 017200	PROJECT RECORD DOCUMENTS
SECTION 017700	CONTRACT CLOSEOUT
SECTION 017800	FINAL CLEANING
SECTION 017823	OPERATION & MAINTENANCE DATA
SECTION 017900	WARRANTIES

TABLE OF CONTENTS
VOLUME 2 - TECHNICAL MANUAL

DIVISION 3 – CONCRETE

SECTION 033000 CAST IN PLACE CONCRETE

DIVISION 4 - MASONRY

SECTION 042000 UNIT MASONRY (ADDENDUM 5)

SECTION 047200 CAST STONE MASONRY

DIVISION 5 - METALS

SECTION 051200 STRUCTURAL STEEL FRAMING

SECTION 052100 STEEL JOIST FRAMING

SECTION 053100 STEEL DECKING

SECTION 054000 COLD-FORMED METAL FRAMING (ADDENDUM 5)

SECTION 055000 METAL FABRICATIONS (ADDENDUM 5)

SECTION 055100 METAL STAIRS

SECTION 055213 PIPE AND TUBE RAILINGS (ADDENDUM 5)

DIVISION 6 – WOOD, PLASTICS AND COMPOSITES

SECTION 061000 ROUGH CARPENTRY

SECTION 061600 SHEATHING

SECTION 064023 INTERIOR ARCHITECTURAL WOODWORK

DIVISION 7 – THERMAL AND MOISTURE PROTECTION

SECTION 071110 COMPOSITE SHEET WATERPOOFING

SECTION 072100 THERMAL INSULATION

SECTION 072500 WEATHER BARRIERS

SECTION 074113 STANDING SEAM METAL ROOF PANELS (ADDENDUM 5)

SECTION 074214 METAL SOFFIT PANELS

SECTION 074223 METAL WALL PANELS (ADDENDUM 5)

SECTION 074243 COMPOSITE METAL PANELS

SECTION 075323 ETHYLENE-PROPYLENE-DIENE-MONOMER (EPDM) ROOFING

SECTION 075416 Ketone Ethylene Ester (KEE) Roofing (ADDENDUM 4)

SECTION 076200 SHEET METAL FLASHING AND TRIM

SECTION 077200 ROOF ACCESSORIES (ADDENDUM 4)

SECTION 078413 PENETRATION FIRESTOPPING

SECTION 079200 JOINT SEALANTS

SECTION 079500 EXPANSION CONTROL

DIVISION 8 - OPENINGS

SECTION 081113 HOLLOW METAL DOORS AND FRAMES

SECTION 081416 FLUSH WOOD DOORS

SECTION 083300 OVERHEAD COILING DOORS AND GRILLES (ADDENDUM 4)

SECTION 084113 ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

SECTION 085820 MISCELLANEOUS WINDOWS AND ACCESSORIES

SECTION 087100 DOOR HARDWARE

SECTION 088000	GENERAL GLAZING
SECTION 088100	FIRE-RATED GLAZING
SECTION 088723	SAFETY & SECURITY WINDOW FILM
SECTION 088810	FIRE-RATED FRAMES AND GLAZING
SECTION 088853	SECURITY GLAZING

DIVISION 9 - FINISHES

SECTION 092216	NON-STRUCTURAL METAL FRAMING
SECTION 092900	GYPSUM BOARD
SECTION 093000	TILING
SECTION 095113	ACOUSTICAL PANEL CEILINGS
SECTION 095421	LINEAR METAL CEILINGS
SECTION 096513	RESILIENT BASE AND ACCESSORIES
SECTION 096519	RESILIENT TILE FLOORING
SECTION 096723	RESINOUS FLOORING
SECTION 096813	TILE CARPETING
SECTION 097200	WALLCOVERINGS
SECTION 099123	PAINTING
SECTION 099600	HIGH PERFORMANCE COATINGS

DIVISION 10 - SPECIALTIES

SECTION 101100	VISUAL DISPLAY UNITS
SECTION 101112	SPECIALTY BUILDING PRODUCTS
SECTION 101115	VINYL GRAPHICS
SECTION 101419	DIMENSIONAL LETTER SIGNAGE (ADDENDUM 4)
SECTION 101423	PANEL SIGNS
SECTION 102113	TOILET COMPARTMENTS
SECTION 102800	TOILET AND BATH ACCESSORIES (ADDENDUM 4)
SECTION 104413	FIRE EXTINGUISHER CABINETS
SECTION 104416	FIRE EXTINGUISHERS
SECTION 105000	METAL LOCKERS (ADDENDUM 4)
SECTION 107300	ALUMINUM CANOPY (ADDENDUM 5)

DIVISION 12 - FURNISHINGS

SECTION 122413	ROLLER WINDOW SHADES
SECTION 123661	SIMULATED STONE FABRICATIONS

TABLE OF CONTENTS
VOLUME 3 – TECHNICAL SPECIFICATIONS

DIVISION 22 – PLUMBING

SECTION 220010	PLUMBING GENERAL PROVISIONS
SECTION 220100	PLUMBING GENERAL EQUIPMENT
SECTION 220250	PLUMBING INSULATION
SECTION 220410	PLUMBING PIPING & SPECIALTIES (ADDENDUM 5)
SECTION 220440	PLUMBING FIXTURES & EQUIPMENT (ADDENDUM 5)
SECTION 220800	PLUMBING COMMISSIONING

DIVISION 23 – MECHANICAL

SECTION 230010	MECHANICAL GENERAL PROVISIONS
SECTION 230100	MECHANICAL GENERAL EQUIPMENT
SECTION 230250	HVAC INSULATION
SECTION 230510	HVAC PIPING & SPECIALTIES
SECTION 230540	HVAC PUMPS (ADDENDUM 1)
SECTION 230545	CHEMICAL WATER TREATMENT (ADDENDUM 1)
SECTION 230570	BOILERS & BURNERS
SECTION 230800	HVAC COMMISSIONING
SECTION 230835	HVAC EQUIPMENT
SECTION 230855	AIR HANDLING UNITS
SECTION 230860	VENTILATION EQUIPMENT
SECTION 230890	DUCTWORK SYSTEMS
SECTION 230900	ATC SYSTEMS (ADDENDUM 1)
SECTION 230990	TESTING, ADJUSTING, AND BALANCING

DIVISION 26 - ELECTRICAL

SECTION 260010	ELECTRICAL GENERAL REQUIREMENTS
SECTION 260180	EQUIPMENT WIRING SYSTEMS
SECTION 260519	ELECTRICAL POWER CONDUCTORS AND CABLES
SECTION 260526	GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS
SECTION 260529	HANGERS AND SUPPORTS
SECTION 260533	RACEWAYS AND BOXES
SECTION 260543	UNDERGROUND DUCTS AND RACEWAYS
SECTION 260544	SLEEVES AND SLEEVE SEALS FOR ELECTRICAL RACEWAYS AND CABLING
SECTION 260553	IDENTIFICATION
SECTION 260573	OVERCURRENT PROTECTIVE DEVICE COORDINATION STUDY
SECTION 260583	UTILITY SERVICE ENTRANCE
SECTION 260620	SCHEDULES FOR ELECTRIC DISTRIBUTION EQUIPMENT (ADDENDUM 5)
SECTION 260650	LUMINAIRE SCHEDULE (ADDENDUM 5)
SECTION 260800	ELECTRICAL SYSTEMS COMMISSIONING
SECTION 260940	DISTRIBUTED DIGITAL LIGHTING CONTROL SYSTEM
SECTION 262200	LOW VOLTAGE TRANSFORMERS
SECTION 262300	MINI-POWER ZONES
SECTION 262416	PANELBOARDS
SECTION 262726	WIRING DEVICES

SECTION 262730	FLOOR BOXES AND POKE-THRU'S
SECTION 262813	FUSES
SECTION 262816	ENCLOSED SWITCHES AND CIRCUIT BREAKERS
SECTION 262830	ENCLOSED CONTACTORS
SECTION 262900	ELECTRIC CONTROLS, PUSHBUTTONS, RELAYS AND EQUIPMENT
SECTION 262913	ENCLOSED CONTROLLERS
SECTION 263213	ENGINE GENERATORS
SECTION 263600	AUTOMATIC TRANSFER SWITCHES
SECTION 263604	NON-AUTOMATIC TRANSFER SWITCHES
SECTION 264313	DISTRIBUTION SURGE PROTECTIVE DEVICES (ADDENDUM 5)
SECTION 265100	INTERIOR LIGHTING
SECTION 265600	EXTERIOR ILLUMINATED SECURITY BOLLARDS
SECTION 265669	EXTERIOR ATHLETIC LIGHTING (ADDENDUM 5)

DIVISION 27 - COMMUNICATIONS

SECTION 270500	COMMON WORK REQUIRED FOR COMMUNICATIONS
SECTION 271100	COMMUNICATIONS EQUIPMENT ROOM FITTINGS
SECTION 271300	COMMUNICATIONS BACKBONE CABLING
SECTION 271500	COMMUNICATION HORIZONTAL CABLING – CATEGORY 6
SECTION 271501	COMMUNICATIONS HORIZONTAL CABLING – CATEGORY 6A
SECTION 277000	LOCAL AUDIO VISUAL REINFORCEMENT SYSTEMS (ADDENDUM 5)
SECTION 278000	AUDIO-VISUAL SUPPORT EQUIPMENT (ADDENDUM 5)

DIVISION 28 – ELECTRONIC SAFETY AND SECURITY

SECTION 280500	COMMON WORK REQUIRED FOR ELECTRONIC SAFETY & SECURITY
SECTION 282300	VIDEO SURVEILLANCE SYSTEM CABLING
SECTION 282400	CAMERA-INTERCOM SYSTEM
SECTION 283111	DIGITAL, ADDRESSABLE FIRE ALARM SYSTEM (ADDENDUM 5)
SECTION 283211	AREA OF RESCUE ASSISTANCE SYSTEM

DIVISION 31 – EARTHWORK

SECTION 310050	BASIC METHODS AND MATERIALS (ADDENDUM 3)
SECTION 311000	SITE CLEARING
SECTION 312000	EARTH MOVING (ADDENDUM 5)

DIVISION 32 – EXTERIOR IMPROVEMENTS

SECTION 321216	ASPHALT PAVEMENT
SECTION 321313	CONCRETE PAVEMENT
SECTION 321723	PAVEMENT MARKINGS
SECTION 321813	SYNTHETIC TURF ATHLETIC FIELD (ADDENDUM 3)
SECTION 323113	CHAIN LINK FENCES AND GATES (ADDENDUM 3)
SECTION 323300	SITE FURNISHING
SECTION 325000	MISCELLANEOUS SITE IMPROVEMENT (ADDENDUM 3)
SECTION 329200	TURF AND GRASSES
SECTION 329300	PLANTS

DIVISION 33 – UTILITIES

SECTION 331000 WATER UTILITIES (ADDENDUM 3)

SECTION 333000 SANITARY SEWERAGE UTILITIES (ADDENDUM 5)

SECTION 334000 STORM DRAINAGE UTILITY

COPYRIGHT

All reports, construction documents, and computer files relating to this project are the property of Crabtree, Rohrbaugh & Associates. Crabtree, Rohrbaugh & Associates retains all common law, statute and other reserved rights including the copyright thereto.

Reproduction of the material herein or substantial use without written permission of Crabtree, Rohrbaugh & Associates violates the copyright laws of the United States and will be subject to legal prosecution.

©2026 Crabtree, Rohrbaugh & Associates

SECTION 000010 - ADVERTISEMENT FOR BIDS

NOTICE

Notice is hereby given that sealed bids for construction of **New District Administrative Office and Athletic Fields** located on the site of Solanco High School, 585 Solanco Road, Quarryville, Pennsylvania 17566 will be received at the Administrative Offices of the Solanco School District at 121 South Hess Street, Quarryville, PA 17566 until **2:00 P.M., prevailing time, on August 5, 2026 August 19, 2026**. Bids must be submitted to the attention of Sandy Tucker, Business Manager. Bids shall be submitted in sealed envelopes bearing the name of the Bidder and shall be clearly marked **“New District Administrative Office and Athletic Fields Bids”**. Bids will be publicly opened and read aloud immediately after the scheduled closing time for receipt of Bids. Bids received after the above-referenced date and time shall be returned to the Bidder unopened. **(ADDENDUM 3)**

Separate, sealed Bids will be received for the following Prime Contracts:

- | | |
|--------|--|
| 3706-1 | General Construction |
| 3706-2 | Site Construction |
| 3706-3 | Heating, Ventilating and Air Conditioning Construction |
| 3706-4 | Plumbing Construction |
| 3706-5 | Electrical Construction |

On or after **July 8, 2026** Bidders may obtain bidding documents in hard copy and/or .pdf electronic format by submitting a written request for the same, together with two separate checks in the non-refundable amount(s) listed below, payable to: Crabtree, Rohrbaugh & Associates, 401 E. Winding Hill Road, Mechanicsburg, PA 17055.

- | | |
|--|----------|
| 1. Electronic .pdf Format (amount to be written out in text) | \$0.00 |
| 2. Hard Copy Printed Format (amount to be written out in text) | \$250.00 |

The following information shall be furnished by bidders when obtaining bidding documents:

1. Bidder's mailing address
2. Name of Bidder's representative
3. Bidder's telephone number
4. Bidder's facsimile number
5. Bidder's email address (email address used to submit the .pdfs)
6. Bidding documents requested, by Contract and Contract number

Bidding documents are available for examination through the following:

Pennsylvania Builders Exchange, 1813 North Franklin Street, Pittsburgh, PA 15233
Dodge Data & Analytics, 2860 South State Hwy 161 #501, Grand Prairie, TX 75052-7361
Altoona Builders Exchange, 1927 Union Street, Altoona, PA 16601
Construct Connect, 4500 Lake Forest Drive Suite 502 Cincinnati, OH 45242
The Blue Book, 800 E. Main Street, Jefferson Valley, New York 10535
Construction Journal, 400 SW 7th Street, Stuart, FL 34994

Bidding document questions shall be directed to Crabtree, Rohrbaugh & Associates, Attention: Bidding Department, email: bidding@cra-architects.com. All questions pertaining to the Contract Documents, technical sections, legal documents, and bid submission shall be directed in writing to: Larry Levato, Principal, email: emikkelsen@cra-architects.com.

Each bid shall be accompanied by bid security in an amount equal to ten percent (10%) of the Base Bid amount and all alternate bid amounts in the form of a Bid Bond as described in the Supplementary Instructions to Bidders.

A Performance Bond and a Payment Bond in the forms provided in the Project Manual, each in an amount equal to one hundred percent (100%) of the amount of the Contract, and each with satisfactory corporate surety, must be furnished by the successful Bidder prior to execution of a Contract.

Bids may not be modified, withdrawn or cancelled by the Bidder for sixty (60) calendar days following the actual date of opening thereof, except as provided by the Commonwealth Procurement Code. However, if award of Contract is delayed by the required approval of another government agency, the sale of bonds or the award of a grant or grants, Bids may not be withdrawn by the Bidder for a period not to exceed 120 days from the date of bid opening in accordance with Pennsylvania law.

Solanco School District reserves the right in its sole discretion to reject any or all Bids and to waive irregularities in any Bid. Further, Solanco School District reserves the right to award any combination of Alternates, or no Alternates, which in its sole discretion, serves the best interests of the School District.

A Pre-Bid Conference will be held on **July 16 at 2 PM**, prevailing time, at the Solanco High School, 585 Solanco Road, Quarryville, Pennsylvania.

This project is subject to the Commonwealth of Pennsylvania, Department of Labor and Industry's Prevailing Wage Pre-Determination.

Corporations seeking to bid which are organized under the laws of a State other than Pennsylvania, must secure the appropriate certificate, authorizing them to conduct business within the Commonwealth.

SOLANCO SCHOOL DISTRICT
By Sandy Tucker, Business Manager
121 South Hess Street
Quarryville, PA 17566

END OF SECTION 000010

AIA® Document A701™ – 2018

Instructions to Bidders

for the following Project:
(Name, location, and detailed description)

THE OWNER:
(Name, legal status, address, and other information)

THE ARCHITECT:
(Name, legal status, address, and other information)

TABLE OF ARTICLES

- | | |
|----------|---|
| 1 | DEFINITIONS |
| 2 | BIDDER'S REPRESENTATIONS |
| 3 | BIDDING DOCUMENTS |
| 4 | BIDDING PROCEDURES |
| 5 | CONSIDERATION OF BIDS |
| 6 | POST-BID INFORMATION |
| 7 | PERFORMANCE BOND AND PAYMENT BOND |
| 8 | ENUMERATION OF THE PROPOSED CONTRACT DOCUMENTS |

ADDITIONS AND DELETIONS:

The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

FEDERAL, STATE, AND LOCAL LAWS MAY IMPOSE REQUIREMENTS ON PUBLIC PROCUREMENT CONTRACTS. CONSULT LOCAL AUTHORITIES OR AN ATTORNEY TO VERIFY REQUIREMENTS APPLICABLE TO THIS PROCUREMENT BEFORE COMPLETING THIS FORM.

It is intended that AIA Document G612™–2017, Owner's Instructions to the Architect, Parts A and B will be completed prior to using this document.

ARTICLE 1 DEFINITIONS

§ 1.1 Bidding Documents include the Bidding Requirements and the Proposed Contract Documents. The Bidding Requirements consist of the advertisement or invitation to bid, Instructions to Bidders, supplementary instructions to bidders, the bid form, and any other bidding forms. The Proposed Contract Documents consist of the unexecuted form of Agreement between the Owner and Contractor and that Agreement's Exhibits, Conditions of the Contract (General, Supplementary and other Conditions), Drawings, Specifications, all Addenda, and all other documents enumerated in Article 8 of these Instructions.

§ 1.2 Definitions set forth in the General Conditions of the Contract for Construction, or in other Proposed Contract Documents apply to the Bidding Documents.

§ 1.3 Addenda are written or graphic instruments issued by the Architect, which, by additions, deletions, clarifications, or corrections, modify or interpret the Bidding Documents.

§ 1.4 A Bid is a complete and properly executed proposal to do the Work for the sums stipulated therein, submitted in accordance with the Bidding Documents.

§ 1.5 The Base Bid is the sum stated in the Bid for which the Bidder offers to perform the Work described in the Bidding Documents, to which Work may be added or deleted by sums stated in Alternate Bids.

§ 1.6 An Alternate Bid (or Alternate) is an amount stated in the Bid to be added to or deducted from, or that does not change, the Base Bid if the corresponding change in the Work, as described in the Bidding Documents, is accepted.

§ 1.7 A Unit Price is an amount stated in the Bid as a price per unit of measurement for materials, equipment, or services, or a portion of the Work, as described in the Bidding Documents.

§ 1.8 A Bidder is a person or entity who submits a Bid and who meets the requirements set forth in the Bidding Documents.

§ 1.9 A Sub-bidder is a person or entity who submits a bid to a Bidder for materials, equipment, or labor for a portion of the Work.

ARTICLE 2 BIDDER'S REPRESENTATIONS

§ 2.1 By submitting a Bid, the Bidder represents that:

- .1 the Bidder has read and understands the Bidding Documents;
- .2 the Bidder understands how the Bidding Documents relate to other portions of the Project, if any, being bid concurrently or presently under construction;
- .3 the Bid complies with the Bidding Documents;
- .4 the Bidder has visited the site, become familiar with local conditions under which the Work is to be performed, and has correlated the Bidder's observations with the requirements of the Proposed Contract Documents;
- .5 the Bid is based upon the materials, equipment, and systems required by the Bidding Documents without exception; and
- .6 the Bidder has read and understands the provisions for liquidated damages, if any, set forth in the form of Agreement between the Owner and Contractor.

ARTICLE 3 BIDDING DOCUMENTS

§ 3.1 Distribution

§ 3.1.1 Bidders shall obtain complete Bidding Documents, as indicated below, from the issuing office designated in the advertisement or invitation to bid, for the deposit sum, if any, stated therein.

(Indicate how, such as by email, website, host site/platform, paper copy, or other method Bidders shall obtain Bidding Documents.)

§ 3.1.2 Any required deposit shall be refunded to Bidders who submit a bona fide Bid and return the paper Bidding Documents in good condition within ten days after receipt of Bids. The cost to replace missing or damaged paper documents will be deducted from the deposit. A Bidder receiving a Contract award may retain the paper Bidding Documents, and the Bidder's deposit will be refunded.

§ 3.1.3 Bidding Documents will not be issued directly to Sub-bidders unless specifically offered in the advertisement or invitation to bid, or in supplementary instructions to bidders.

§ 3.1.4 Bidders shall use complete Bidding Documents in preparing Bids. Neither the Owner nor Architect assumes responsibility for errors or misinterpretations resulting from the use of incomplete Bidding Documents.

§ 3.1.5 The Bidding Documents will be available for the sole purpose of obtaining Bids on the Work. No license or grant of use is conferred by distribution of the Bidding Documents.

§ 3.2 Modification or Interpretation of Bidding Documents

§ 3.2.1 The Bidder shall carefully study the Bidding Documents, shall examine the site and local conditions, and shall notify the Architect of errors, inconsistencies, or ambiguities discovered and request clarification or interpretation pursuant to Section 3.2.2.

§ 3.2.2 Requests for clarification or interpretation of the Bidding Documents shall be submitted by the Bidder in writing and shall be received by the Architect at least seven days prior to the date for receipt of Bids.
(Indicate how, such as by email, website, host site/platform, paper copy, or other method Bidders shall submit requests for clarification and interpretation.)

§ 3.2.3 Modifications and interpretations of the Bidding Documents shall be made by Addendum. Modifications and interpretations of the Bidding Documents made in any other manner shall not be binding, and Bidders shall not rely upon them.

§ 3.3 Substitutions

§ 3.3.1 The materials, products, and equipment described in the Bidding Documents establish a standard of required function, dimension, appearance, and quality to be met by any proposed substitution.

§ 3.3.2 Substitution Process

§ 3.3.2.1 Written requests for substitutions shall be received by the Architect at least ten days prior to the date for receipt of Bids. Requests shall be submitted in the same manner as that established for submitting clarifications and interpretations in Section 3.2.2.

§ 3.3.2.2 Bidders shall submit substitution requests on a Substitution Request Form if one is provided in the Bidding Documents.

§ 3.3.2.3 If a Substitution Request Form is not provided, requests shall include (1) the name of the material or equipment specified in the Bidding Documents; (2) the reason for the requested substitution; (3) a complete description of the proposed substitution including the name of the material or equipment proposed as the substitute, performance and test data, and relevant drawings; and (4) any other information necessary for an evaluation. The request shall include a statement setting forth changes in other materials, equipment, or other portions of the Work, including changes in the work of other contracts or the impact on any Project Certifications (such as LEED), that will result from incorporation of the proposed substitution.

§ 3.3.3 The burden of proof of the merit of the proposed substitution is upon the proposer. The Architect's decision of approval or disapproval of a proposed substitution shall be final.

§ 3.3.4 If the Architect approves a proposed substitution prior to receipt of Bids, such approval shall be set forth in an Addendum. Approvals made in any other manner shall not be binding, and Bidders shall not rely upon them.

§ 3.3.5 No substitutions will be considered after the Contract award unless specifically provided for in the Contract Documents.

§ 3.4 Addenda

§ 3.4.1 Addenda will be transmitted to Bidders known by the issuing office to have received complete Bidding Documents.

(Indicate how, such as by email, website, host site/platform, paper copy, or other method Addenda will be transmitted.)

§ 3.4.2 Addenda will be available where Bidding Documents are on file.

§ 3.4.3 Addenda will be issued no later than four days prior to the date for receipt of Bids, except an Addendum withdrawing the request for Bids or one which includes postponement of the date for receipt of Bids.

§ 3.4.4 Prior to submitting a Bid, each Bidder shall ascertain that the Bidder has received all Addenda issued, and the Bidder shall acknowledge their receipt in the Bid.

ARTICLE 4 BIDDING PROCEDURES

§ 4.1 Preparation of Bids

§ 4.1.1 Bids shall be submitted on the forms included with or identified in the Bidding Documents.

§ 4.1.2 All blanks on the bid form shall be legibly executed. Paper bid forms shall be executed in a non-erasable medium.

§ 4.1.3 Sums shall be expressed in both words and numbers, unless noted otherwise on the bid form. In case of discrepancy, the amount entered in words shall govern.

§ 4.1.4 Edits to entries made on paper bid forms must be initialed by the signer of the Bid.

§ 4.1.5 All requested Alternates shall be bid. If no change in the Base Bid is required, enter "No Change" or as required by the bid form.

§ 4.1.6 Where two or more Bids for designated portions of the Work have been requested, the Bidder may, without forfeiture of the bid security, state the Bidder's refusal to accept award of less than the combination of Bids stipulated by the Bidder. The Bidder shall neither make additional stipulations on the bid form nor qualify the Bid in any other manner.

§ 4.1.7 Each copy of the Bid shall state the legal name and legal status of the Bidder. As part of the documentation submitted with the Bid, the Bidder shall provide evidence of its legal authority to perform the Work in the jurisdiction where the Project is located. Each copy of the Bid shall be signed by the person or persons legally authorized to bind the Bidder to a contract. A Bid by a corporation shall further name 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 the agent's authority to bind the Bidder.

§ 4.1.8 A Bidder shall incur all costs associated with the preparation of its Bid.

§ 4.2 Bid Security

§ 4.2.1 Each Bid shall be accompanied by the following bid security:

(Insert the form and amount of bid security.)

§ 4.2.2 The Bidder pledges to enter into a Contract with the Owner on the terms stated in the Bid and shall, if required, furnish bonds covering the faithful performance of the Contract and payment of all obligations arising thereunder. Should the Bidder refuse to enter into such Contract or fail to furnish such bonds if required, the amount of the bid security shall be forfeited to the Owner as liquidated damages, not as a penalty. In the event the Owner fails to comply with Section 6.2, the amount of the bid security shall not be forfeited to the Owner.

§ 4.2.3 If a surety bond is required as bid security, it shall be written on AIA Document A310™, Bid Bond, unless otherwise provided in the Bidding Documents. The attorney-in-fact who executes the bond on behalf of the surety shall affix to the bond a certified and current copy of an acceptable power of attorney. The Bidder shall provide surety bonds from a company or companies lawfully authorized to issue surety bonds in the jurisdiction where the Project is located.

§ 4.2.4 The Owner will have the right to retain the bid security of Bidders to whom an award is being considered until (a) the Contract has been executed and bonds, if required, have been furnished; (b) the specified time has elapsed so that Bids may be withdrawn; or (c) all Bids have been rejected. However, if no Contract has been awarded or a Bidder has not been notified of the acceptance of its Bid, a Bidder may, beginning days after the opening of Bids, withdraw its Bid and request the return of its bid security.

§ 4.3 Submission of Bids

§ 4.3.1 A Bidder shall submit its Bid as indicated below:

(Indicate how, such as by website, host site/platform, paper copy, or other method Bidders shall submit their Bid.)

§ 4.3.2 Paper copies of the Bid, the bid security, and any other documents required to be submitted with the Bid shall be enclosed in a sealed opaque envelope. The envelope shall be addressed to the party receiving the Bids and shall be identified with the Project name, the Bidder's name and address, and, if applicable, the designated portion of the Work for which the Bid is submitted. If the Bid is sent by mail, the sealed envelope shall be enclosed in a separate mailing envelope with the notation "SEALED BID ENCLOSED" on the face thereof.

§ 4.3.3 Bids shall be submitted by the date and time and at the place indicated in the invitation to bid. Bids submitted after the date and time for receipt of Bids, or at an incorrect place, will not be accepted.

§ 4.3.4 The Bidder shall assume full responsibility for timely delivery at the location designated for receipt of Bids.

§ 4.3.5 A Bid submitted by any method other than as provided in this Section 4.3 will not be accepted.

§ 4.4 Modification or Withdrawal of Bid

§ 4.4.1 Prior to the date and time designated for receipt of Bids, a Bidder may submit a new Bid to replace a Bid previously submitted, or withdraw its Bid entirely, by notice to the party designated to receive the Bids. Such notice shall be received and duly recorded by the receiving party on or before the date and time set for receipt of Bids. The receiving party shall verify that replaced or withdrawn Bids are removed from the other submitted Bids and not considered. Notice of submission of a replacement Bid or withdrawal of a Bid shall be worded so as not to reveal the amount of the original Bid.

§ 4.4.2 Withdrawn Bids may be resubmitted up to the date and time designated for the receipt of Bids in the same format as that established in Section 4.3, provided they fully conform with these Instructions to Bidders. Bid security shall be in an amount sufficient for the Bid as resubmitted.

§ 4.4.3 After the date and time designated for receipt of Bids, a Bidder who discovers that it made a clerical error in its Bid shall notify the Architect of such error within two days, or pursuant to a timeframe specified by the law of the jurisdiction where the Project is located, requesting withdrawal of its Bid. Upon providing evidence of such error to the reasonable satisfaction of the Architect, the Bid shall be withdrawn and not resubmitted. If a Bid is withdrawn pursuant to this Section 4.4.3, the bid security will be attended to as follows:

(State the terms and conditions, such as Bid rank, for returning or retaining the bid security.)

ARTICLE 5 CONSIDERATION OF BIDS

§ 5.1 Opening of Bids

If stipulated in an advertisement or invitation to bid, or when otherwise required by law, Bids properly identified and received within the specified time limits will be publicly opened and read aloud. A summary of the Bids may be made available to Bidders.

§ 5.2 Rejection of Bids

Unless otherwise prohibited by law, the Owner shall have the right to reject any or all Bids.

§ 5.3 Acceptance of Bid (Award)

§ 5.3.1 It is the intent of the Owner to award a Contract to the lowest responsive and responsible Bidder, provided the Bid has been submitted in accordance with the requirements of the Bidding Documents. Unless otherwise prohibited by law, the Owner shall have the right to waive informalities and irregularities in a Bid received and to accept the Bid which, in the Owner's judgment, is in the Owner's best interests.

§ 5.3.2 Unless otherwise prohibited by law, the Owner shall have the right to accept Alternates in any order or combination, unless otherwise specifically provided in the Bidding Documents, and to determine the lowest responsive and responsible Bidder on the basis of the sum of the Base Bid and Alternates accepted.

ARTICLE 6 POST-BID INFORMATION

§ 6.1 Contractor's Qualification Statement

Bidders to whom award of a Contract is under consideration shall submit to the Architect, upon request and within the timeframe specified by the Architect, a properly executed AIA Document A305™, Contractor's Qualification Statement, unless such a Statement has been previously required and submitted for this Bid.

§ 6.2 Owner's Financial Capability

A Bidder to whom award of a Contract is under consideration may request in writing, fourteen days prior to the expiration of the time for withdrawal of Bids, that the Owner furnish to the Bidder reasonable evidence that financial arrangements have been made to fulfill the Owner's obligations under the Contract. The Owner shall then furnish such reasonable evidence to the Bidder no later than seven days prior to the expiration of the time for withdrawal of Bids. Unless such reasonable evidence is furnished within the allotted time, the Bidder will not be required to execute the Agreement between the Owner and Contractor.

§ 6.3 Submittals

§ 6.3.1 After notification of selection for the award of the Contract, the Bidder shall, as soon as practicable or as stipulated in the Bidding Documents, submit in writing to the Owner through the Architect:

- .1 a designation of the Work to be performed with the Bidder's own forces;
- .2 names of the principal products and systems proposed for the Work and the manufacturers and suppliers of each; and
- .3 names of persons or entities (including those who are to furnish materials or equipment fabricated to a special design) proposed for the principal portions of the Work.

§ 6.3.2 The Bidder will be required to establish to the satisfaction of the Architect and Owner the reliability and responsibility of the persons or entities proposed to furnish and perform the Work described in the Bidding Documents.

§ 6.3.3 Prior to the execution of the Contract, the Architect will notify the Bidder if either the Owner or Architect, after due investigation, has reasonable objection to a person or entity proposed by the Bidder. If the Owner or Architect has reasonable objection to a proposed person or entity, the Bidder may, at the Bidder's option, withdraw the Bid or submit an acceptable substitute person or entity. The Bidder may also submit any required adjustment in the Base Bid or Alternate Bid to account for the difference in cost occasioned by such substitution. The Owner may accept the adjusted bid price or disqualify the Bidder. In the event of either withdrawal or disqualification, bid security will not be forfeited.

§ 6.3.4 Persons and entities proposed by the Bidder and to whom the Owner and Architect have made no reasonable objection must be used on the Work for which they were proposed and shall not be changed except with the written consent of the Owner and Architect.

ARTICLE 7 PERFORMANCE BOND AND PAYMENT BOND

§ 7.1 Bond Requirements

§ 7.1.1 If stipulated in the Bidding Documents, the Bidder shall furnish bonds covering the faithful performance of the Contract and payment of all obligations arising thereunder.

§ 7.1.2 If the furnishing of such bonds is stipulated in the Bidding Documents, the cost shall be included in the Bid. If the furnishing of such bonds is required after receipt of bids and before execution of the Contract, the cost of such bonds shall be added to the Bid in determining the Contract Sum.

§ 7.1.3 The Bidder shall provide surety bonds from a company or companies lawfully authorized to issue surety bonds in the jurisdiction where the Project is located.

§ 7.1.4 Unless otherwise indicated below, the Penal Sum of the Payment and Performance Bonds shall be the amount of the Contract Sum.

(If Payment or Performance Bonds are to be in an amount other than 100% of the Contract Sum, indicate the dollar amount or percentage of the Contract Sum.)

§ 7.2 Time of Delivery and Form of Bonds

§ 7.2.1 The Bidder shall deliver the required bonds to the Owner not later than three days following the date of execution of the Contract. If the Work is to commence sooner in response to a letter of intent, the Bidder shall, prior to commencement of the Work, submit evidence satisfactory to the Owner that such bonds will be furnished and delivered in accordance with this Section 7.2.1.

§ 7.2.2 Unless otherwise provided, the bonds shall be written on AIA Document A312, Performance Bond and Payment Bond.

§ 7.2.3 The bonds shall be dated on or after the date of the Contract.

§ 7.2.4 The Bidder shall require the attorney-in-fact who executes the required bonds on behalf of the surety to affix to the bond a certified and current copy of the power of attorney.

ARTICLE 8 ENUMERATION OF THE PROPOSED CONTRACT DOCUMENTS

§ 8.1 Copies of the proposed Contract Documents have been made available to the Bidder and consist of the following documents:

- .1 AIA Document A101™–2017, Standard Form of Agreement Between Owner and Contractor, unless otherwise stated below.
(Insert the complete AIA Document number, including year, and Document title.)
- .2 AIA Document A101™–2017, Exhibit A, Insurance and Bonds, unless otherwise stated below.
(Insert the complete AIA Document number, including year, and Document title.)
- .3 AIA Document A201™–2017, General Conditions of the Contract for Construction, unless otherwise stated below.
(Insert the complete AIA Document number, including year, and Document title.)
- .4 AIA Document E203™–2013, Building Information Modeling and Digital Data Exhibit, dated as indicated below:
(Insert the date of the E203-2013.)
- .5 Drawings

Number	Title	Date	
.6	Specifications		
	Section	Title	Date Pages
.7	Addenda:		
	Number	Date	Pages
.8	Other Exhibits: <i>(Check all boxes that apply and include appropriate information identifying the exhibit where required.)</i>		
	☐ AIA Document E204™–2017, Sustainable Projects Exhibit, dated as indicated below: <i>(Insert the date of the E204-2017.)</i>		
	☐ The Sustainability Plan:		
	Title	Date	Pages
	☐ Supplementary and other Conditions of the Contract:		
	Document	Title	Date Pages
.9	Other documents listed below: <i>(List here any additional documents that are intended to form part of the Proposed Contract Documents.)</i>		

SECTION 000101 - SUPPLEMENTARY INSTRUCTIONS TO BIDDERS

Section 000101, Supplementary Instructions to Bidders, contains modifications to the basic document, **AIA Document A701, Instructions to Bidders, 2018 Edition**, in the form of additions, deletions and substitutions. Where any part of the basic document is so modified by these Supplementary Instructions to Bidders, the unaltered provisions shall remain in effect.

ARTICLE 1 - DEFINITIONS

DELETE Paragraph 1.2 in its entirety and, in lieu thereof, SUBSTITUTE the following new Paragraph:

- 1.2 Except as provided for herein, all definitions set forth in the Conditions of the Contract (General, Supplementary and other conditions) or in other Contract documents are applicable to these Bidding Documents.

ADD the following new Subparagraph as follows:

- 1.2.1 The following words are intended to mean:

- Furnish (Materials): To supply and deliver to the Project ready for installation and in operable condition.
- Install (Services or Labor): To place in final position, complete, anchored, connected, and in operable condition.
- Provide: To furnish and install complete. When neither furnish, install, nor provide is stated, provide is implied.

ADD the following to the end of Paragraph 1.4

[Add:] "and applicable law."

ADD the following to the end of Paragraph 1.6

[Add:] "Owner may, in its sole discretion, elect to accept or reject any Alternate, either adding to or deducting from the Base Bid accordingly."

ADD the following to the end of Paragraph 1.8

[Add:] "and applicable law."

ARTICLE 2 – BIDDER’S REPRESENTATIONS

ADD new Paragraph 2.2 as follows:

- 2.2 Bidder is required to examine carefully in detail the character of the Site of the Project, the Contract Documents and all other matters pertinent to the Work contemplated. By submitting a Bid, Bidder expressly represents that it has satisfied itself as to the conditions to be encountered, including conditions that are overhead, on the surface, and concealed; the character, quality and quantities of Work to be done and materials to be furnished; and

the requirements of the Contract Documents. No allowance or concession will be made for the lack of such information. Where underground and overhead structure locations are shown, they are for the information of Architect only; their correctness is not guaranteed or warranted by Owner or Architect, and in no event is this information to be considered a part of the Contract Documents, or to be relied upon in preparing a Bid. If this information is used by Bidder in preparing its Bid, Bidder must assume all risks resulting from conditions differing from those shown in the information provided. Test boring information concerning subsurface materials or conditions which are based upon test pits or test borings has been obtained by Owner for Architect's use in designing the Project. This information is available to Bidder for information only. References to this information may be found in the Table of Contents. The technical data found in the test boring information is represented to be accurate by Owner, but the conclusions and inferences that may be found in or inferred from the information is not warranted, and the accuracy or completeness of any such conclusions and inferences is not guaranteed by Owner or Architect. By submitting a Bid, Bidder represents that it has not relied upon the subsurface information supplied by Architect or Owner and assumes all responsibility in excavating for the Project for any and all subsurface conditions encountered.

There is no expressed or implied agreement that the existing conditions have been correctly indicated, and Bidders shall take into account that conditions affecting the cost or quantities of Work to be done may differ from those indicated.

Bidder shall carefully examine all Bidding Documents and materials pertinent thereto, with respect to all the categories of Work for which Owner has advertised and will receive Bids, so that it is completely aware and satisfied as to the character, quality and quantities of all Work, materials and for services required or to be provided by Bidder to perform and complete all Work of its Contract on the Project. Further, Bidder shall have carefully examined the preliminary construction schedule, including the preliminary phasing plan (if applicable) for the Work, and by submission of a Bid, represents that the time set forth for such Work is sufficient for Bidder to complete its Work.

Should Work to be performed be specified or indicated in more than one prime contract and no clarifications are received by Addendum prior to the bid date, each prime contract Bidder so affected who is submitting a Bid shall consider the Work to be part of its prime contract. A subsequent determination will be made and an amount commensurate to the Work to be performed will be deducted from the contractor determined not to be responsible.

Bidder, by submission of its Bid, represents that it has visited the site, that it has read the Bidding Documents and understands their full character and intent, and that it has otherwise complied with the provisions of Article 3, and should Owner subsequently accept its Bid, no claims, allowances, or concessions will be made, accepted, or recognized by Owner for any additional labor, equipment or materials required, or for any difficulties encountered in the Work, or for the lack of any information which could have been foreseen, apparent, or ascertained had Bidder so complied with Article 3.

Bidder shall ascertain all governmental and utility requirements with respect to wage scales,

materials, labor, safety, and sanitation and shall base its Bid on full compliance therewith.

Bidder has familiarized itself with labor conditions which might affect or influence the performance of the Work.

ARTICLE 3 - BIDDING DOCUMENTS

Paragraph 3.1 - Copies:

Subparagraph 3.1.1

DELETE Subparagraph 3.1.1 in its entirety, and in lieu thereof, SUBSTITUTE the following new Subparagraph:

- 3.1.1 Bidders may obtain complete sets of Bidding Documents from Crabtree, Rohrbaugh & Associates as stated in the Advertisement for Bids for the fee stated therein. The fee for Bidding Documents is **non-refundable**.

DELETE Subparagraph 3.1.2 in its entirety.

ADD new Sub-subparagraph 3.1.5.1 as follows:

- 3.1.5.1 Bidder agrees that all work product produced by Architect or its consultants are "Instruments of Service" as defined in AIA Document A201™-2007, General Conditions of the Contract for Construction. "Instruments of Service" include, without limitation, representations, in any medium of expression, of the tangible and intangible creative work performed by Architect and Architect's consultants under their respective professional service agreements.

Bidder agrees that for the purposes of the bid process, Architect is the copyright owner of such Instruments of Service and retains all common law, statutory and other reserved rights, including copyrights. Distribution of Instruments of Service to potential Bidders is not to be construed as publication in derogation of the reserved rights of Architect and Architect's consultants.

Architect grants to Bidder a nonexclusive, revocable license to use Architect's Instruments of Service solely and exclusively for purposes of developing Bidder's Bid, including securing information or bids from Bidder's material or equipment suppliers, contractors, or subcontractors. The license granted under this section permits Bidder or Bidder's contractors, subcontractors, sub-subcontractors and suppliers to reproduce applicable portions of the Instruments of Service solely and exclusively for use in developing its Bid for the Project. If Bidder is for any reason not awarded the Contract for the Project, the license granted in this section shall immediately terminate.

Bidder acknowledges that it shall not use the Instruments of Service for any purpose other than to prepare a Bid. The Instruments of Service shall not be used as construction drawings or for any specification involved in the construction of the

Project. Bidder, for itself, and Bidder's contractors, subcontractors, sub-subcontractors and suppliers, hereby releases and holds Architect and Architect's consultant(s) harmless from all claims and causes of action arising from any use of the Instruments of Service. Bidder, to the extent permitted by law, further agrees to defend, indemnify, and hold harmless Architect and its consultants from all costs and expenses, including the cost of defense, related to claims and causes of action asserted by any third person or entity to the extent such costs and expenses arise from Bidder's use of the Instruments of Service under this Section.

Except for the licenses granted in this Section, no other license or right shall be deemed granted or implied under this Agreement. Bidder shall not assign, delegate, sublicense, pledge, or otherwise transfer any license granted herein to another party without the prior written agreement of Architect. Any unauthorized use or reproduction of the Instruments of Service shall be at Bidder's sole risk and without liability to Architect and Architect's consultants, and subject to Architect's rights and remedies for infringement of Architect's rights, including without limitation, copyrights.

Paragraph 3.2 – Modification or Interpretation of Bidding Documents:
Subparagraph 3.2.2

ADD the following new sentences to the end of Subparagraph 3.2.2:

- 3.2.2 [Add:] "All requests for clarification or interpretation shall be made by a prime bidder and shall be in writing. Any request made by any other entity will not be addressed. Any request for clarification or interpretation via means other than in writing will not be addressed. Written requests will not be responded to directly back to Bidder. If the inquiry requires clarification to, or modification of the Contract Documents, they will be issued via Addendum. If clarification to, or modification of the Contract Documents is not required by the inquiry, the request will not be addressed." In lieu of seven (7) days as stipulated in the AIA A701, all bidder questions or requests for clarification must be received by Architect no later than five (5) calendar days prior to the bid date.

Paragraph 3.3 – Substitutions:

DELETE Subparagraph 3.3.2 in its entirety, including all sub-subparagraphs and, in lieu thereof, SUBSTITUTE the following new Subparagraph:

- 3.3.2. **Pre-Bid substitutions will not be considered.** Following the award of contracts, substitutions proposed by the awarded Contractors will be considered in accordance with Division 1 Section "Substitutions".

DELETE Subparagraph 3.3.4 in its entirety.

DELETE Subparagraph 3.3.5 in its entirety.

Paragraph 3.4 - Addenda:

ADD new Sub-subparagraph 3.4.1.1 as follows:

- 3.4.1.1 Clarifications to the Bidding Documents will only be made in writing, by Addenda. Oral statements may not be relied upon and will not be binding or have any legal effect.

DELETE Subparagraph 3.4.3 in its entirety and, in lieu thereof, SUBSTITUTE the following new Subparagraph:

- 3.4.3 Addenda will be issued no later than two days prior to the date for receipt of Bids except an Addendum withdrawing the request for Bids or one which includes postponement of the date for receipt of Bids.

DELETE Subparagraph 3.4.4 in its entirety and, in lieu thereof, SUBSTITUTE the following new Subparagraph:

- 3.4.4 Bidder shall ascertain prior to submitting a Bid that Bidder has received all Addenda issued, and Bidder shall acknowledge, where indicated on the Bid Form, their receipt. Failure of any Bidder to receive any Addenda as provided for herein shall not release such Bidder from the obligation of their Bid.

ARTICLE 4 - BIDDING PROCEDURES

Paragraph 4.1 - Preparation of Bids:

ADD the following new sentences to the end of Subparagraph 4.1.1:

- 4.1.1 [Add:] "Attention is directed to the Bid Forms bound in the Project Manual. These forms are for the information and convenience of Bidder and are not to be detached from the Project Manual, or filled out or executed. A separate copy of each Bid Form is furnished with the Bidding Documents. Complete two (2) separate copies of the Bid Form and accompanying documents, execute, and submit as specified in the Advertisement for Bid".

ADD the following new sentence to the end of Subparagraph 4.1.5:

- 4.1.5 [Add:] "Failure to enter an amount or "No Change", or a similar designation regarding the Bid amount for a requested Alternate shall be construed to mean that no change in the Base Bid is required."

INSERT the following sentence after the second sentence of Subparagraph 4.1.7:

- 4.1.7 [Insert:] "The signature of any person appearing on the Bid Form, shall be in longhand and in ink."

Paragraph 4.2 - Bid Security:

AMPLIFY Subparagraph 4.2.1 as follows:

- 4.2.1 [Amplify:] "Bid security in the type and amount stated in the Advertisement for Bids shall accompany the Bid. Bid Bonds shall be in the form set forth in the Project Manual. Bid bonds shall name as obligee and checks shall be made payable to The Solanco School District. Bidders who submit security in cash or check form shall be bound by the conditions set forth in the Bid Bond."

DELETE Subparagraph 4.2.3 in its entirety and, in lieu thereof, SUBSTITUTE the following new Subparagraph:

- 4.2.3 If a Surety Bond is used for the Bid Security, it shall be written on a form similar to the enclosed Bid Bond form only, and the Attorney-in-fact who executes the Bond on behalf of the Surety, shall affix to the Bond, a certified and current copy of its power of attorney.

DELETE Subparagraph 4.2.4 in its entirety, and in lieu thereof, SUBSTITUTE the following new Subparagraph:

- 4.2.4 Owner may declare the Bid Security forfeited to Owner as liquidated damages if, following the designation within the firm-bid period of Bidder as the apparently lowest responsible Bidder, such Bidder shall thereafter, following receipt of Notice of Intent to Award, fail to (1) deliver to Owner within the prescribed time the properly executed Performance Bond and Payment Bond if required by these Contract Documents or (2) if Notice of Intent to Award is given to such Bidder, deliver to Owner, within the prescribed time, the properly executed counterparts of the construction Agreement and all evidences of insurance as required by these Contract Documents. The Bid Security of all Bidders will be returned (unless previously forfeited as aforesaid) upon (1) the execution of the construction Agreement by Owner, (2) the rejection by Owner of all Bids or (3) the expiration of the firm-bid period, including any extensions by operation of law or by mutual consent of Owner and the apparently lowest responsible Bidder, as permitted by the Commonwealth Procurement Code.

Paragraph 4.3 - Submission of Bids:

ADD the following new sentence to the end of Subparagraph 4.3.2 as follows:

- 4.3.2 [Add:] "Owner shall not be responsible for the opening of Bids not submitted in compliance with these Instructions to Bidders or Supplementary Instructions to Bidders."

ADD new Subparagraph 4.3.6 as follows:

- 4.3.6 [Add:] The documents to be submitted with the Bid are as follows:
1. Two (2) Original Bid Form
 2. Two (2) Bid Security
 3. Two (2) Non-Collusion Affidavit
 4. Two (2) Agreement by Vendor or Independent Contractor to Comply with Act 34 of 1986 and Act 151 of 1995 (as amended)

5. Two (2) Non-Discrimination Affidavit
6. Two (2) Affidavit Accepting Provisions of the Workman's Compensation Acts
7. Two (2) Contractor's Qualification Statement, AIA Document A305

ADD new Subparagraph 4.3.7 as follows:

- 4.3.7 [Add:] Owner reserves the right to waive non-material defects, informalities or irregularities in any and all Bids.

Paragraph 4.4 - Modification or Withdrawal of Bid:

DELETE Subparagraph 4.4.1 in its entirety and, in lieu thereof, SUBSTITUTE the following new Subparagraph:

- 4.4.1 A Bidder may withdraw its Bid at any time up to the scheduled time for opening of Bids. The withdrawal of a Bid prior to the deadline for bidding may occur only by appearing in person, by First-Class mail, or by fax or email. A Bid may not be modified after the deadline for submittal. After the deadline for submittal, no Bid may be withdrawn except as permitted by the Commonwealth Procurement Code.

MODIFY the first sentence of Subparagraph 4.4.2 by adding the following to the end of the sentence:

- 4.4.2 [Modify:] "..... and these Bidding Documents."

DELETE Subparagraph 4.4.3 in its entirety and, in lieu thereof, SUBSTITUTE the following new Subparagraph:

- 4.4.3 Bids may not be withdrawn by Bidder for a period not to exceed sixty (60) calendar days following the actual date of opening thereof, except as provided by the Bid Withdrawal Act. However, if award of Contracts is delayed by a required approval of another government agency, the sale of bonds or the award of a grant or grants, a Bid may not be withdrawn by Bidder for a period not to exceed 120 days from the date of Bid opening in accordance with Pennsylvania Law.

ARTICLE 5 -CONSIDERATION OF BIDS

Paragraph 5.1 - Opening of Bids:

DELETE the first part of the first sentence of Paragraph 5.1 up to and including "or when otherwise required by law," and begin this sentence as follows:

- 5.1 "Bids properly identified and received"

- 5.1.1 Post Bid Assessment: Owner reserves the right to consider changes in the Work after Bid opening and prior to award of Contracts intended to reduce the cost of the Project. Owner may at its election, begin discussions with the lowest responsible Bidder, based on the low Base Bid and any Alternates determined to be acceptable to Owner. After Bid opening and upon Owner's identification of the apparent low bidder and Owner's request, the apparent low bidder agrees to provide cost breakdowns in accordance with

estimates used in the preparation of its Bid to Owner and Architect using cost breakdown forms that will be provided by Architect. The confidentiality of such cost-breakdown and bid materials, when received, will be maintained by Owner, Architect, and their representatives. Such requests will be made only where, in the sole judgment of Owner, Owner's ability to fully fund the Project is detrimentally affected by the total amount of the lowest responsible and responsive Bids and accepted Alternates received from all bidders. The requests made by or on behalf of Owner, under this Subparagraph, shall be limited to matters that do not affect the amount of reimbursement from the Commonwealth of Pennsylvania, and in particular do not affect Owner's educational program or its scheduled architectural area. The Department of Education requires that the planned bid adjustment, through the use of future Change Orders must not impact on the award to the lowest Bidder, permits and approvals issued by local and other state and federal agencies, compliance with Act 34 of 1973, or the 20% Rule for Alteration Costs used in determining the eligibility of building renovations for reimbursement. Any deduct Change Orders to be considered must not affect the full functioning of the building or site. Matters to which such requests could be directed may include site work, landscaping, predetermined means and methods of construction, substitutions, deletions, changes in scope, and changes in schedule. Following receipt of the information requested, Owner may propose deletions of Work and may at its option prepare draft deduct Change Orders. Owner's award of the Contract to Bidder can be made conditional upon Bidder's consent and agreement to the execution of the proposed deduct Change Orders, following award and at a time contemporaneous with the execution of the Owner-Contractor Agreement. If through this process Owner cannot achieve the cost reductions necessary to meet its budget parameters, Owner reserves the right to reject all Bids associated with the Contract and re-bid the Project.

Paragraph 5.2 - Rejection of Bids:

ADD new Subparagraph 5.2.1 as follows:

- 5.2.1 Owner reserves the right to reject any or all Bids for one or more Contracts, or parts thereof, or items therein. Owner reserves the right to disqualify Bids, before or after opening, upon evidence of collusion with intent to defraud or other illegal practices upon the part of Bidder, or by other means permissible under applicable law.

Paragraph 5.3 - Acceptance of Bid Award:

AMPLIFY Subparagraph 5.3.1 as follows:

- 5.3.1 [*Amplify:*] Owner, before making an award, may require any Bidder, upon at least three (3) days request to present satisfactory evidence, in the form specified by Owner, of their experience, qualifications, financial ability, and other matters reasonably related to their ability to satisfactorily perform and complete the Work covered by their Bid.

Owner reserves the right to consider such matters, facts and circumstances presented by Bidder, as shall be permitted by Pennsylvania law, in making a determination whether Bidder is a responsible Bidder. Owner reserves the right to request such other information or data as they may deem necessary to evaluate the qualifications of Bidder

to satisfactorily perform the functions of Contractor.

With its Bid, Bidder must submit a Contractor's Qualification Statement (AIA Document A305), which shall include a listing of a minimum of three (3) Pennsylvania public school projects completed within the past seven (7) years of a minimum Contract value equal to or greater than the Bid amount of this Project. Also, provide names and numbers for the Superintendent, the Principal, the Construction Manager (if applicable) and Architect for all public school projects completed within the past seven (7) years.

Contractor's Qualification Statement shall be supplemented by listing any principal, officer or shareholder in your company who has either owned, operated, or who was affiliated with any other business in a management capacity, under a different name. List the name of the business and provide a Contractor's Qualification Statement for such business.

ADD new Subparagraphs as follows:

5.3.3 After review of Bids, during the Bid period stipulated in Article 4.4.1, at its sole discretion, Owner may issue a Notice of Intent to Award. Upon receipt of Notice of Intent to Award, Contractor shall, within seven (7) calendar days, deliver to Owner (by delivery to Architect) the following:

1. Performance and Payment Bonds as set forth in the Contract Documents and Article 7 of the Instructions to Bidders.
2. Insurance Certificates, policies or other evidence of insurance set forth in the Contract Documents.
3. An executed Pennsylvania Public Works Verification Form
4. Post Bid Information required in Article 6 of these Instructions to Bidders.

Failure of Bidder to whom Notice of Intent to Award has been given to deliver the above items required by the Contract Documents, within seven (7) calendar days, shall constitute grounds for Owner to declare Bidder's Bid Security forfeited.

Upon receipt of the documents listed above, Owner may at its sole discretion, award the Contract. A written Notice to Proceed will be issued to establish the start of the Contract duration.

5.3.4 Upon receipt of the partially executed Agreement from Contractor, Owner shall execute and return to Contractor, one (1) copy of the executed Agreement and shall issue Notice to Proceed for the Work.

5.3.5 When a Unit Price is rejected by Owner, any additional work that would have been subject to that unit price shall be subject to Article 7 of the General Conditions of the Contract for Construction and the Supplementary General Conditions.

ARTICLE 6 - POST BID INFORMATION

DELETE Paragraph 6.2 - Owner's Financial Capability, in its entirety._

ARTICLE 7 - PERFORMANCE BOND AND PAYMENT BOND

Paragraph 7.1 - Bond Requirements:

DELETE Subparagraph 7.1.1 in its entirety and, in lieu thereof, SUBSTITUTE the following new Subparagraph:

- 7.1.1 Prior to execution of the Contract, the successful Bidder shall furnish bonds covering the faithful performance of the Contract and the payment of all obligations arising thereunder in the forms included in the Project Manual and each in an amount equal to 100% of the Contract Sum. The Performance Bond shall remain in force and effect until Contractor's Work has been finally accepted. Bidder shall pay all premiums with respect to such bonds.

DELETE Subparagraph 7.1.2 in its entirety._

DELETE Subparagraph 7.1.3 in its entirety, and in lieu thereof, SUBSTITUTE the following new Subparagraph:

- 7.1.3 Bonds shall be secured from a surety company as stipulated in Division 0 Section "Supplementary General Conditions".

Paragraph 7.2 - Time of Delivery and Form of Bonds:

DELETE Subparagraph 7.2.1 in its entirety and, in lieu thereof, SUBSTITUTE the following new Subparagraph:

- 7.2.1 Bidder shall deliver properly executed bonds to Owner (by delivery to Architect) no later than seven (7) days after written Notice of Intent to Award is issued.

DELETE Subparagraph 7.2.2 in its entirety and, in lieu thereof, SUBSTITUTE the following new Subparagraph:

- 7.2.2 Bonds shall be written on the Performance Bond form and the Payment Bond form included in the Contract Documents for the amount required in the Contract Documents.
 - 7.2.2.1 The Contract Bonds shall be written in the form included in the Project Manual and the Bonds shall be executed by or on behalf of the successful Bidder, as Principal, in the following manner:
 - 7.2.2.2 If the successful Bidder is an individual, the Contract Bonds shall be executed by them personally, their signature shall be witnessed, and any trade name employed in the conduct of their business shall be stated.
 - 7.2.2.3 If the successful Bidder is a partnership, the Contract Bonds shall be executed in the name of the partnership by each of the Partners, and the signatures of the Partners shall be witnessed.
 - 7.2.2.4 If the successful Bidder is a corporation, the Contract Bonds shall be executed in the

name of the corporation: (1) by the President or a Vice President and attested by the Secretary or Assistant Secretary and the Corporate Seal shall be attached; (2) by a duly authorized agent of the corporation whose authority to act, as of the date of the Contract Bonds, shall be established by proof, satisfactory to Owner, attached to the Contract Bonds.

7.2.2.5 Execute the Contract Bonds on behalf of the surety in such manner as to legally bind the surety. In the event the execution on behalf of the surety is by an agent or agents, a proper power of attorney, evidencing the authority of such agent or agents, shall be attached to the Contract Bonds. Such power of attorney shall bear the same date as the Contract Bonds to which it is attached.

7.2.2.6 Surety companies executing bonds must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the state where the project is located.

ARTICLE 8 – ENUMERATION OF THE PROPOSED CONTRACT DOCUMENTS

DELETE Subparagraph 8.1.1 in its entirety and, in lieu thereof, SUBSTITUTE the following new Subparagraph:

8.1.1 The Agreement shall be written on the form included in these Contract Documents.

ARTICLE 9 CONSTRUCTION TIME

ADD new Article 9 as follows:

Paragraph 9.1 - Pre-Bid Conference:

9.1.1 Prospective Bidders and Sub-bidders are invited to attend a Pre-Bid Conference at the time and location stated in the Advertisement for Bids during which questions of general and technical nature and other matters regarding the Construction Documents may be raised by those in attendance and discussed with Owner, Architect, and Engineers.

Paragraph 9.2 - Pre-Construction Conference:

9.2.1 Soon after the award of the Contract but prior to the start of construction, Contractor or their representative shall attend a Pre-Construction Conference with representatives of Owner and Architect. The conference will serve to acquaint the participants with the general plan of Contract administration and requirements under which the construction operation is to proceed and will inform Contractor, in detail, of the obligations imposed on them and their subcontractors by the Executive Orders concerning Equal Employment Opportunity.

9.2.2 The date, time and place of the conference will be furnished to Contractor by Architect.

Paragraph 9.3 - Contract Time:

- 9.3.1 The Agreement will include a stipulation that the Work be substantially complete (as defined in the Contract) within **454** calendar days, and that completion of ALL punch list work and Final Acceptance of the Work be achieved within **499** calendar days.

Paragraph 9.4 - Time of Completion:

- 9.4.1 Bidder agrees that they will commence work within forty-eight (48) hours following receipt of Notice to Proceed from Owner (which may be given by Architect pursuant to authority granted by Owner) and shall be substantially completed within the number of calendar days set forth herein.
- 9.4.2 By submitting a Bid, Bidder for General Construction, certifies that they shall coordinate the schedule for construction of the Project with all other prime contractors as selected in these specifications including, but not limited to, preparing and updating the Schedule, holding weekly coordination meetings with all prime contractors and submitting a copy of the minutes of those meetings to Architect on a weekly basis.
- 9.4.3 All other prime contractors, by submitting a Bid, certify that they shall coordinate their Work with General Contractor and shall attend the weekly coordination meetings as scheduled by General Contractor.
- 9.4.4 By submitting a Bid, each prime contractor certifies that the Contract Time set forth herein is sufficient for such prime contractor to complete its work.

Paragraph 9.5 - Non-Interference with Owner's Operations:

- 9.5.1 Contractor shall schedule their work accordingly and shall cooperate with Owner to see that daily operations are disrupted as little as possible. No Work shall begin until it is fully coordinated with Owner so that Owner can make provisions to allow for the disruption that the Work will cause. Owner shall be given at least five (5) days' notice before any work is to be started. This notice shall be in writing.
- 9.5.2 The General Contractor shall erect temporary barriers to segregate the area of new construction from the existing facility and the remainder of Owner's property. It is the intention that these temporary barriers be constructed to prevent the flow of dust, dirt, debris, etc., into the adjacent areas of the facility. The temporary barriers must also serve as safety barriers to prevent access by unauthorized people into the work area.
- 9.5.3 Contractor must maintain access to Owner's facilities for employees, visitors, other users and deliveries. In no way shall Contractor prevent access to the remaining portions of the site.

ARTICLE 10 - GOVERNING LAWS AND REGULATIONS

ADD new Article 10 as follows:

Paragraph 10.1 – Governing Laws and Regulations

- 10.1.1 Bidder's attention is directed to the fact that all applicable Federal and State laws, municipal ordinances and codes, and the rules and regulations of all authorities having jurisdiction over construction of the Project may apply to this Contract, including without limitation, Davis Bacon Wage Act.

Paragraph 10.2 - Sales Tax

- 10.2.1 Because Owner is a Tax Exempt entity of the Commonwealth of Pennsylvania, certain tax advantages may result with respect to this Contract and related matters. Bidder shall agree to cooperate fully so that Owner can benefit from all tax relief available. Bidder shall reflect the tax exemption in its Bid, and the Bid price shall not include taxes for which Owner is exempt. Bidder shall satisfy its responsibilities under this provision before being entitled to final payment.

Refer to Division 0 Section "PA Tax Exempt Entities Disclosure" for more information.

Paragraph 10.3 - Anti-Pollution Legislation

- 10.3.1 On October 26, 1972, House Bill Number 1969 was enacted into law. This Act (No. 247) became effective on November 25, 1972. It requires that Bidders on construction contracts for the Commonwealth of Pennsylvania be advised of those provisions of Federal and State statutes, rules and regulations dealing with the prevention of environmental pollution and the preservation of public natural resources that affect the Project on which bids are being received.
- 10.3.2 Bidder shall thoroughly acquaint itself with the terms of the listed statutes, rules, and regulations. No separate or additional payment will be made for such compliance. In the event that the listed statutes, rules and regulations are amended or if new statutes, rules, or regulations become effective after the date of receipt of Bids, upon receipt of documentation which causes Contractor to perform additional Work, Owner may issue a Change Order or deviation request setting forth the additional Work that must be undertaken. This change order or deviation request shall not invalidate the Contract.
- 10.3.3 It is the responsibility of Contractor to determine what local ordinances, if any, will affect the Work. They shall check for any county, city, borough, or township rules or regulations applicable to the area in which the Project is being constructed and, in addition, for any rules or regulations of other organizations having jurisdiction, such as chambers-of-commerce, planning commissions, industries, or utility companies who have jurisdiction over lands which Contractor occupies. Any costs of compliance with local controls shall be included in the Bid, even though documents of such local controlling agencies are not listed herein.

END OF SECTION 000101

BID FORM - GENERAL CONSTRUCTION - CONTRACT 3706-1

DATED: _____
(Bidder to insert date bid submitted)

Bidder's Name | Address (Print or Type)

Sandy Tucker | Business Manager

The Solanco School District

121 South Hess Street

Quarryville, PA 17566-1225

POC Email Address

POC Phone Number

To Whom It May Concern:

This Bid is submitted in accordance with your Advertisement inviting Bids to be received for the General Construction Work for The New District Administrative Offices and Athletic Fields at Solanco High School for The Solanco School District, Quarryville, PA.

Having carefully examined the Contract Documents as defined in Article 1 of the Agreement, bound in the Specifications, and including the Addenda enumerated in the Bid, which are incorporated with these documents indicating various conditions affecting this Contract, the undersigned herein agrees to furnish all materials, perform all labor and do all else necessary to complete the Contract for the above named Project in accordance with said Contract Documents for:

Total Base Bid Project Cost for All General Construction

_____ DOLLARS
(\$_____).

As a Bid Breakout, the Contractor shall identify the cost of all Work included in the Base Bid for construction of the District Administrative Office portion of the project. Refer to the limits or work line noted on the drawings. This breakout price is for Department of Education administrative purposes only and is not to be utilized in the determination of the lowest bidder. The basis of award of Contracts will be the lowest responsive Bid for the sum of the Total Base Bid and any selected Alternates.

The cost of Work included in the Base Bid for the _____ is as follows:

Total Bid Breakout Cost for All General Construction included in the Base Bid

(\$_____).

Accompanying this Bid is a certified check, bank cashier's check, bank treasurer's check or Bid Bond required by Paragraph 4.2 of the Instructions to Bidders which is deposited as a bid guarantee and is to be retained by you and applied as provided in Paragraph 4.2.1 of the Instructions to Bidders in case the undersigned shall default in executing the Contract or in furnishing the required Bonds and insurance certificates within the time specified by these Contract Documents.

The undersigned hereby certifies that this Bid is genuine, and is not a sham or collusive, or made in the interest of, or on behalf of any person, firm or corporation not herein named, and that the undersigned has not directly or indirectly induced or solicited any bidder to refrain from bidding and that the undersigned has not in any manner sought by collusion to secure for itself, any advantages over any other bidder.

The undersigned, intending to be legally bound, agrees that this Bid shall be irrevocable and shall remain subject to your acceptance for 60 days after the date set for bid opening, except as provided by the Commonwealth Procurement Code, which provides for possible extensions of the holding period.

It is hereby certified that the undersigned is the only person(s) or entity(ies) interested in this Bid as Principal, and that the Bid is made without collusion with any person, firm or corporation. The Bidder hereby agrees to furnish surety company bonds in the form incorporated in the Contract Documents, in the amount of one hundred percent (100%) of the Contract Price for the Performance Bond and the Payment Bond as surety against defects or inferior materials or workmanship which may develop during the period of one (1) year from the date of completion and acceptance of the Work performed under the Contract, within five (5) days after notice by the Owner of the intention to award the Contract and execute the Agreement and furnish evidence of required insurance coverage, upon request, within five (5) days after mailing by the Owner of Notice of Intent to Award, and to commence work within forty-eight (48) hours after receipt of Notice to Proceed.

The Bidder guarantees that, if awarded a Contract, it will furnish and deliver all materials, all specified temporary facilities and controls, tools, equipment, tests, and transportation, to secure all permits and licenses, to do and perform all labor, superintendence, and all means of construction, pay all fees (unless specifically noted otherwise), and do all incidental Work, and to execute, construct and finish, in an expeditious, substantial and workmanlike manner in accordance with the plans and specifications, to the complete satisfaction and acceptance of the Owner for the price herein stated.

It is understood that the Solanco School District reserves the right to reject any or all Bids or Proposals, or parts thereof, or items thereof, and to waive technicalities required for the best interests of the Owner.

The undersigned submits this Bid with the full knowledge of the Contract requirements and hereby agrees that Work of the Project, under this Contract shall be **substantially completed within 454 calendar days, and final acceptance of the Work, including completion of all punch list work, shall be attained within 499 calendar days.** Substantial completion of each of the project phases by the dates designated in the Contract Documents are considered milestones to the overall schedule and are subject to the provisions of Article 8 - "Time" of the AIA A201 General Conditions of the Contract for Construction. **The contract durations stated herein shall be the essence of the Contract.**

The Bidder agrees that it will not assign its Bid or any of its rights or interests hereunder without written consent of the Owner.

The undersigned Contractor agrees to furnish all labor and materials for any additional work ordered by the Owner, and for which no pre-agreed price has been fixed, for the net cost of all labor and materials furnished plus the contracted markup noted in Article 6 of the Supplementary General Conditions.

The Contract amount stated above includes all sales taxes, excise, and other taxes for all materials and appliances subject to and upon which taxes are levied.

THE BID FORM AND THE FOLLOWING ATTACHMENTS SHALL BE SUBMITTED IN DUPLICATE:

1. Two (2) Bid Security
2. Two (2) Non-Collusion Affidavit
3. Two (2) Agreement by Vendor or Independent Contractor to Comply with Act 34 of 1986 and Act 151 of 1995 (as amended)
4. Two (2) Non-Discrimination Affidavit
5. Two (2) Affidavit Accepting Provisions of the Workman's Compensation Acts
6. Two (2) Contractor's Qualification Statement (AIA Document A305)

ALTERNATES: The Instructions to Bidders and the Contract Documents comprising the plans and specifications, and all documents bound therewith, together with all Addenda thereto, shall apply to all Alternate Bids as listed in Division 1 Section "Alternates", and as listed below:

GC-1	Unclassified Construction	ADD	\$	_____
GC-2	Ground Floor Locker Room	ADD	\$	_____
GC-3	Cloud Software (Alternate Bid)	ADD	\$	_____
GC-4	Flat Roofing Area (Alternate Bid)	ADD	\$	_____

UNIT PRICES: The Instructions to Bidders and the Contract Documents comprising the plans and specifications, and all documents bound therewith, together with all Addenda thereto, shall apply to all Unit Prices as listed in Division 1 Section "Unit Prices", and as listed below:

GC-1	Bulk Soil Excavation	\$	_____	CY
GC-2	Borrow Soil	\$	_____	CY
GC-3	Trench Rock Removal and Replacement with Satisfactory Material	\$	_____	CY
GC-4	Bulk Rock Removal and Replacement with Satisfactory Material	\$	_____	CY

The Owner reserves the right to accept or reject any and all Unit Prices stipulated on the Bid Form.

ADDENDA

The undersigned hereby acknowledge receipt of following Addenda and has prepared this bid accordingly:

ADDENDUM # _____	Dated _____	ADDENDUM # _____	Dated _____
ADDENDUM # _____	Dated _____	ADDENDUM # _____	Dated _____
ADDENDUM # _____	Dated _____		

Bids shall be officially signed in accordance with the Instructions to Bidders, using the applicable portion of the "Signature Pages".

SIGNATURES

IN WITNESS WHEREOF, the undersigned has caused this Bid to be executed as of the day and year indicated on the first page hereof.

For Individual Bidder

Name of Bidder (Printed)

Witness By: _____
(Signature of Individual)

Trading and doing business as * _____

Business Address _____

*If a fictitious or trade name is employed in the conduct of business, insert name here:

Next, complete, by deletion as appropriate, the following statement:

Foregoing fictitious or trade name (has) (has not) been registered by the individual proprietorship under Pennsylvania Law.

SIGNATURES

IN WITNESS WHEREOF, the undersigned has caused this Bid to be executed as of the day and year indicated on the first page hereof.

For Partnership Bidder

(Name of Partnership)

Name of General Partner (Printed)

Witness

By: _____
(Signature of General Partner)

Business Address _____

The Partners constituting the Partnership herein named are:

Partner _____ Address _____

Partner _____ Address _____

Partner _____ Address _____

Partner _____ Address _____

[Add additional lines for the names and addresses of additional Partners, if there are more than four Partners in the Partnership, by attaching an additional page or pages to this Bid.]

*If a fictitious or trade name is employed by the Partnership in conduct of its business, insert name here:

Next, complete, by deletion as appropriate, the following statement:

Foregoing fictitious or trade name (has) (has not) been registered by the partnership under Pennsylvania Law.

SIGNATURES

IN WITNESS WHEREOF, the undersigned has caused this Bid to be executed as of the day and year indicated on the first page hereof.

For Corporate Bidder

(Name of Corporation)

By: _____	Attest: _____
Signature of President, Vice President, or other authorized representative *	Signature of Secretary, Assistant Secretary, Treasurer, Assistant Treasurer or other authorized representative **

(CORPORATE SEAL)

Business Address _____

- * If a representative other than the President or a Vice President of the Corporation signs this Bid on its behalf, then attach a valid corporate resolution or other appropriate proof, dated prior to or as of the date of the Bid, evidencing authority to execute this Bid on behalf of the Corporation.
- ** If a representative other than the Secretary, an Assistant Secretary, the Treasurer or an Assistant Treasurer attests to the signature of the corporate representative, then attach a valid corporate resolution or other appropriate proof, dated prior to or as of the date of the Bid, evidencing authority to attest to the execution of this Bid on behalf of the Corporation.

(1) Complete the following statement:

The Corporation has been organized and is existing under laws of the State/Commonwealth of _____

(2) If the Corporation has been organized under laws of a State other than those of the Commonwealth of Pennsylvania, complete, by deletion as appropriate, the following statement:

The Corporation (has) (has not) been granted a certificate of authority to do business in the Commonwealth of Pennsylvania under applicable laws.

(3) If the Corporation has been organized under laws other than those of the Commonwealth of Pennsylvania and has NOT been granted a certificate of authority, complete, by deletion as appropriate, the following statement:

The Corporation (has) (has not) applied for a certificate of authority to do business in the Commonwealth of Pennsylvania and (has) (has not) attached a copy of the pending application to this Bid.

SIGNATURES

IN WITNESS WHEREOF, the undersigned has caused this Bid to be executed as of the day and year indicated on the first page hereof.

For Limited Liability Company (LLC) Bidder

[Name of Contractor]

(Print Name of Limited Liability Company)

Attest: _____ By: _____
Signature of an authorized representative* Signature of an authorized representative**

* The individual attesting verifies and represents that the person whose signature is affixed to this Bid on behalf of the Limited Liability Company (LLC) is duly authorized in accordance with the representations hereafter set forth.

** Check the box which applies to this Bid:

- ☐ The Certificate of Organization provides that the LLC is to be managed by managers, and this Bid has been executed by a Manager fully authorized by the Certificate, by the Operating Agreement and by Resolutions of the LLC. Copies of the relevant documents are provided with the Bid or can be provided upon request within three (3) working days.
- ☐ The Certificate of Organization does not provide that LLC is to be managed by managers, and this Bid has been executed by a Member fully authorized by the Certificate, by the Operating Agreement and by Resolutions of the LLC. Copies of the relevant documents are provided with the Bid or can be provided upon request within three (3) working days.
- ☐ This Bid has been executed by a representative of the LLC who is not a Manager or a Member of the LLC, and instead who holds the office of _____ (insert title), and the execution of this Bid is fully authorized by the Certificate, by the Operating Agreement and by Resolutions of the LLC. Copies of the relevant documents are provided with the Bid or can be provided upon request within three (3) working days.

The Bidder and the individuals signing and attesting to the execution of this document further represent that (1) execution of the Bid is carrying on business in the usual way; (2) the LLC authorizes the execution of this Bid even if execution and submission of this Bid is not carrying on business in the usual way for the LLC; and (3) to the best of the individuals' information and belief, the Owner has no knowledge of the Member's or the Manager's lack of actual authority, or of any applicable and relevant restriction on his or her authority.

Continued on next page

Complete the following statement:

The LLC has been organized and is existing under laws of the State/Commonwealth of:

If the LLC has been organized under laws of a State other than those of the Commonwealth of Pennsylvania, complete, by deletion as appropriate, the following statement:

The LLC (has) (has not) been granted a certificate of authority to do business in the Commonwealth of Pennsylvania under applicable laws.

If the LLC has been organized under laws other than those of the Commonwealth of Pennsylvania and has NOT been granted a certificate of authority, complete, by deletion as appropriate, the following statement:

The LLC (has) (has not) applied for a certificate of authority to do business in the Commonwealth of Pennsylvania and (has) (has not) attached a copy of the pending application to this Bid.

BID FORM - SITE CONSTRUCTION - CONTRACT 3706 -2

DATED: _____
(Bidder to insert date bid submitted)

Bidder's Name | Address (Print or Type)

Sandy Tucker | Business Manager

The Solanco School District

121 South Hess Street

Quarryville, PA 17566-1225

POC Email Address

POC Phone Number

To Whom It May Concern:

This Bid is submitted in accordance with your Advertisement inviting Bids to be received for the Site Construction Work for The New District Administrative Offices and Athletic Fields at Solanco High School for The Solanco School District, Quarryville, PA.

Having carefully examined the Contract Documents as defined in Article 1 of the Agreement, bound in the Specifications, and including the Addenda enumerated in the Bid, which are incorporated with these documents indicating various conditions affecting this Contract, the undersigned herein agrees to furnish all materials, perform all labor and do all else necessary to complete the Contract for the above named Project in accordance with said Contract Documents for:

Total Base Bid Project Cost for All General Construction

_____ DOLLARS

(\$ _____).

As a Bid Breakout, the Contractor shall identify the cost of all Work included in the Base Bid for construction of the District Administrative Office portion of the project. Refer to the limits or work line noted on the drawings. This breakout price is for Department of Education administrative purposes only and is not to be utilized in the determination of the lowest bidder. The basis of award of Contracts will be the lowest responsive Bid for the sum of the Total Base Bid and any selected Alternates.

The cost of Work included in the Base Bid for the _____ is as follows:

Total Bid Breakout Cost for All Site Construction included in the Base Bid

_____ DOLLARS

(\$ _____).

As a Bid Breakout, the Contractor shall identify Cut/Fill yardages for all Work included in the Base Bid for construction of the Site. This breakout request is for administrative purposes only and is not to be utilized in the determination of the lowest bidder. The basis of award of Contracts will be the lowest responsive Bid for the sum of the Total Base Bid and any selected Alternates.

CUT CY _____
FILL CY _____

The cost of Work included in the Base Bid for the _____ is as follows:

Total Bid Breakout Cost for All Site Construction included in the Base Bid

_____ DOLLARS

Accompanying this Bid is a certified check, bank cashier's check, bank treasurer's check or Bid Bond required by Paragraph 4.2 of the Instructions to Bidders which is deposited as a bid guarantee and is to be retained by you and applied as provided in Paragraph 4.2.1 of the Instructions to Bidders in case the undersigned shall default in executing the Contract or in furnishing the required Bonds and insurance certificates within the time specified by these Contract Documents.

The undersigned hereby certifies that this Bid is genuine, and is not a sham or collusive, or made in the interest of, or on behalf of any person, firm or corporation not herein named, and that the undersigned has not directly or indirectly induced or solicited any bidder to refrain from bidding and that the undersigned has not in any manner sought by collusion to secure for itself, any advantages over any other bidder.

The undersigned, intending to be legally bound, agrees that this Bid shall be irrevocable and shall remain subject to your acceptance for 60 days after the date set for bid opening, except as provided by the Commonwealth Procurement Code, which provides for possible extensions of the holding period.

It is hereby certified that the undersigned is the only person(s) or entity(ies) interested in this Bid as Principal, and that the Bid is made without collusion with any person, firm or corporation. The Bidder hereby agrees to furnish surety company bonds in the form incorporated in the Contract Documents, in the amount of one hundred percent (100%) of the Contract Price for the Performance Bond and the Payment Bond as surety against defects or inferior materials or workmanship which may develop during the period of one (1) year from the date of completion and acceptance of the Work performed under the Contract, within five (5) days after notice by the Owner of the intention to award the Contract and execute the Agreement and furnish evidence of required insurance coverage, upon request, within five (5) days after mailing by the Owner of Notice of Intent to Award, and to commence work within forty-eight (48) hours after receipt of Notice to Proceed.

The Bidder guarantees that, if awarded a Contract, it will furnish and deliver all materials, all specified temporary facilities and controls, tools, equipment, tests, and transportation, to secure all permits and licenses, to do and perform all labor, superintendence, and all means of construction, pay all fees (unless specifically noted otherwise), and do all incidental Work, and to execute, construct and finish, in an expeditious, substantial and workmanlike manner in accordance with the plans and specifications, to the

complete satisfaction and acceptance of the Owner for the price herein stated.

It is understood that The Solanco School District reserves the right to reject any or all Bids or Proposals, or parts thereof, or items thereof, and to waive technicalities required for the best interests of the Owner.

The undersigned submits this Bid with the full knowledge of the Contract requirements and hereby agrees that Work of the Project, under this Contract shall be **substantially completed within 454 calendar days, and final acceptance of the Work, including completion of all punch list work, shall be attained within 499 calendar days.** Substantial completion of each of the project phases by the dates designated in the Contract Documents are considered milestones to the overall schedule and are subject to the provisions of Article 8 - "Time" of the AIA A201 General Conditions of the Contract for Construction. **The contract durations stated herein shall be the essence of the Contract.**

The Bidder agrees that it will not assign its Bid or any of its rights or interests hereunder without written consent of the Owner.

The undersigned Contractor agrees to furnish all labor and materials for any additional work ordered by the Owner, and for which no pre-agreed price has been fixed, for the net cost of all labor and materials furnished plus the contracted markup noted in Article 6 of the Supplementary General Conditions.

The Contract amount stated above includes all sales taxes, excise, and other taxes for all materials and appliances subject to and upon which taxes are levied.

THE BID FORM AND THE FOLLOWING ATTACHMENTS SHALL BE SUBMITTED IN DUPLICATE:

1. Two (2) Bid Security
2. Two (2) Non-Collusion Affidavit
3. Two (2) Agreement by Vendor or Independent Contractor to Comply with Act 34 of 1986 and Act 151 of 1995 (as amended)
4. Two (2) Non-Discrimination Affidavit
5. Two (2) Affidavit Accepting Provisions of the Workman's Compensation Acts
6. Two (2) Contractor's Qualification Statement (AIA Document A305)

ALTERNATES: The Instructions to Bidders and the Contract Documents comprising the plans and specifications, and all documents bound therewith, together with all Addenda thereto, shall apply to all Alternate Bids as listed in Division 1 Section "Alternates", and as listed below:

SC-1	Unclassified Construction	ADD	\$	_____
SC-2	Third Field Location	ADD	\$	_____
SC-3	Additional Paving	ADD	\$	_____

UNIT PRICES: The Instructions to Bidders and the Contract Documents comprising the plans and specifications, and all documents bound therewith, together with all Addenda thereto, shall apply to all Unit Prices as listed in Division 1 Section "Unit Prices", and as listed below:

SC-1	Bulk Soil Excavation	\$	_____	CY
SC-2	Borrow Soil Replacement	\$	_____	CY
SC-3	Trench Rock Removal and Replacement with Satisfactory Material	\$	_____	CY
SC-4	Bulk Rock Removal and Replacement with Satisfactory Material	\$	_____	CY

The Owner reserves the right to accept or reject any and all Unit Prices stipulated on the Bid Form.

ADDENDA

The undersigned hereby acknowledge receipt of following Addenda and has prepared this bid accordingly:

ADDENDUM # _____	Dated _____	ADDENDUM # _____	Dated _____
ADDENDUM # _____	Dated _____	ADDENDUM # _____	Dated _____
ADDENDUM # _____	Dated _____	ADDENDUM # _____	Dated _____
ADDENDUM # _____	Dated _____	ADDENDUM # _____	Dated _____

Bids shall be officially signed in accordance with the Instructions to Bidders, using the applicable portion of the "Signature Pages".

SIGNATURES

IN WITNESS WHEREOF, the undersigned has caused this Bid to be executed as of the day and year indicated on the first page hereof.

For Individual Bidder

Name of Bidder (Printed)

Witness By: _____
(Signature of Individual)

Trading and doing business as * _____

Business Address _____

*If a fictitious or trade name is employed in the conduct of business, insert name here:

Next, complete, by deletion as appropriate, the following statement:

Foregoing fictitious or trade name (has) (has not) been registered by the individual proprietorship under Pennsylvania Law.

SIGNATURES

IN WITNESS WHEREOF, the undersigned has caused this Bid to be executed as of the day and year indicated on the first page hereof.

For Partnership Bidder

(Name of Partnership)

Name of General Partner (Printed)

Witness

By: _____
(Signature of General Partner)

Business Address _____

The Partners constituting the Partnership herein named are:

Partner _____ Address _____

Partner _____ Address _____

Partner _____ Address _____

Partner _____ Address _____

[Add additional lines for the names and addresses of additional Partners, if there are more than four Partners in the Partnership, by attaching an additional page or pages to this Bid.]

*If a fictitious or trade name is employed by the Partnership in conduct of its business, insert name here:

Next, complete, by deletion as appropriate, the following statement:

Foregoing fictitious or trade name (has) (has not) been registered by the partnership under Pennsylvania Law.

SIGNATURES

IN WITNESS WHEREOF, the undersigned has caused this Bid to be executed as of the day and year indicated on the first page hereof.

For Corporate Bidder

(Name of Corporation)

By: _____	Attest: _____
Signature of President, Vice President, or other authorized representative *	Signature of Secretary, Assistant Secretary, Treasurer, Assistant Treasurer or other authorized representative **

(CORPORATE SEAL)

Business Address _____

- * If a representative other than the President or a Vice President of the Corporation signs this Bid on its behalf, then attach a valid corporate resolution or other appropriate proof, dated prior to or as of the date of the Bid, evidencing authority to execute this Bid on behalf of the Corporation.
- ** If a representative other than the Secretary, an Assistant Secretary, the Treasurer or an Assistant Treasurer attests to the signature of the corporate representative, then attach a valid corporate resolution or other appropriate proof, dated prior to or as of the date of the Bid, evidencing authority to attest to the execution of this Bid on behalf of the Corporation.

(1) Complete the following statement:

The Corporation has been organized and is existing under laws of the State/Commonwealth of _____

(2) If the Corporation has been organized under laws of a State other than those of the Commonwealth of Pennsylvania, complete, by deletion as appropriate, the following statement:

The Corporation (has) (has not) been granted a certificate of authority to do business in the Commonwealth of Pennsylvania under applicable laws.

(3) If the Corporation has been organized under laws other than those of the Commonwealth of Pennsylvania and has NOT been granted a certificate of authority, complete, by deletion as appropriate, the following statement:

The Corporation (has) (has not) applied for a certificate of authority to do business in the Commonwealth of Pennsylvania and (has) (has not) attached a copy of the pending application to this Bid.

SIGNATURES

IN WITNESS WHEREOF, the undersigned has caused this Bid to be executed as of the day and year indicated on the first page hereof.

For Limited Liability Company (LLC) Bidder

[Name of Contractor]

(Print Name of Limited Liability Company)

Attest: _____ By: _____
Signature of an authorized representative* Signature of an authorized representative**

* The individual attesting verifies and represents that the person whose signature is affixed to this Bid on behalf of the Limited Liability Company (LLC) is duly authorized in accordance with the representations hereafter set forth.

** Check the box which applies to this Bid:

- ☐ The Certificate of Organization provides that the LLC is to be managed by managers, and this Bid has been executed by a Manager fully authorized by the Certificate, by the Operating Agreement and by Resolutions of the LLC. Copies of the relevant documents are provided with the Bid or can be provided upon request within three (3) working days.
- ☐ The Certificate of Organization does not provide that LLC is to be managed by managers, and this Bid has been executed by a Member fully authorized by the Certificate, by the Operating Agreement and by Resolutions of the LLC. Copies of the relevant documents are provided with the Bid or can be provided upon request within three (3) working days.
- ☐ This Bid has been executed by a representative of the LLC who is not a Manager or a Member of the LLC, and instead who holds the office of _____ (insert title), and the execution of this Bid is fully authorized by the Certificate, by the Operating Agreement and by Resolutions of the LLC. Copies of the relevant documents are provided with the Bid or can be provided upon request within three (3) working days.

The Bidder and the individuals signing and attesting to the execution of this document further represent that (1) execution of the Bid is carrying on business in the usual way; (2) the LLC authorizes the execution of this Bid even if execution and submission of this Bid is not carrying on business in the usual way for the LLC; and (3) to the best of the individuals' information and belief, the Owner has no knowledge of the Member's or the Manager's lack of actual authority, or of any applicable and relevant restriction on his or her authority.

Continued on next page

Complete the following statement:

The LLC has been organized and is existing under laws of the State/Commonwealth of:

If the LLC has been organized under laws of a State other than those of the Commonwealth of Pennsylvania, complete, by deletion as appropriate, the following statement:

The LLC (has) (has not) been granted a certificate of authority to do business in the Commonwealth of Pennsylvania under applicable laws.

If the LLC has been organized under laws other than those of the Commonwealth of Pennsylvania and has NOT been granted a certificate of authority, complete, by deletion as appropriate, the following statement:

The LLC (has) (has not) applied for a certificate of authority to do business in the Commonwealth of Pennsylvania and (has) (has not) attached a copy of the pending application to this Bid.

BID FORM - HVAC CONSTRUCTION - CONTRACT 3706-3

DATED: _____
(Bidder to insert date bid submitted)

Bidder's Name | Address (Print or Type)

Sandy Tucker | Business Manager

The Solanco School District

121 South Hess Street

Quarryville, PA 17566-1225

POC Email Address

POC Phone Number

To Whom It May Concern:

This Bid is submitted in accordance with your Advertisement inviting Bids to be received for the General Construction Work for THE New District Administrative Offices and Athletic Fields at Solanco High School for The Solanco School District, Quarryville, PA.

Having carefully examined the Contract Documents as defined in Article 1 of the Agreement, bound in the Specifications, and including the Addenda enumerated in the Bid, which are incorporated with these documents indicating various conditions affecting this Contract, the undersigned herein agrees to furnish all materials, perform all labor and do all else necessary to complete the Contract for the above named Project in accordance with said Contract Documents for:

Total Base Bid Project Cost for All HVAC Construction

_____ DOLLARS

(\$ _____).

As a Bid Breakout, the Contractor shall identify the cost of all Work included in the Base Bid for construction of the District Administrative Office portion of the project. Refer to the limits or work line noted on the drawings. This breakout price is for Department of Education administrative purposes only and is not to be utilized in the determination of the lowest bidder. The basis of award of Contracts will be the lowest responsive Bid for the sum of the Total Base Bid and any selected Alternates.

The cost of Work included in the Base Bid for the _____ is as follows:

Total Bid Breakout Cost for All HVAC Construction included in the Base Bid

(\$ _____).

Accompanying this Bid is a certified check, bank cashier's check, bank treasurer's check or Bid Bond required by Paragraph 4.2 of the Instructions to Bidders which is deposited as a bid guarantee, and is to be retained by you and applied as provided in Paragraph 4.2.1 of the Instructions to Bidders, in case the undersigned shall default in executing the Contract or in furnishing the required Bonds and insurance certificates within the time specified by these Contract Documents.

The undersigned hereby certifies that this Bid is genuine, and is not a sham or collusive, or made in the interest of, or on behalf of any person, firm or corporation not herein named, and that the undersigned has not directly or indirectly induced or solicited any bidder to refrain from bidding and that the undersigned has not in any manner sought by collusion to secure for itself, any advantages over any other bidder.

The undersigned, intending to be legally bound, agrees that this Bid shall be irrevocable and shall remain subject to your acceptance for 60 days after the date set for bid opening, except as provided by the Commonwealth Procurement Code, which provides for possible extensions of the holding period.

It is hereby certified that the undersigned is the only person(s) or entity(ies) interested in this Bid as Principal, and that the Bid is made without collusion with any person, firm or corporation. The Bidder hereby agrees to furnish surety company bonds in the form incorporated in the Contract Documents, in the amount of one hundred percent (100%) of the Contract Price for the Performance Bond and the Payment Bond as surety against defects or inferior materials or workmanship which may develop during the period of one (1) year from the date of completion and acceptance of the Work performed under the Contract, within five (5) days after notice by the Owner of the intention to award the Contract and execute the Agreement and furnish evidence of required insurance coverage, upon request, within five (5) days after mailing by the Owner of Notice of Intent to Award, and to commence work within forty-eight (48) hours after receipt of Notice to Proceed.

The Bidder guarantees that, if awarded a Contract, it will furnish and deliver all materials, all specified temporary facilities and controls, tools, equipment, tests, and transportation, to secure all permits and licenses, to do and perform all labor, superintendence, and all means of construction, pay all fees (unless specifically noted otherwise), and do all incidental Work, and to execute, construct and finish, in an expeditious, substantial and workmanlike manner in accordance with the plans and specifications, to the complete satisfaction and acceptance of the Owner for the price herein stated.

It is understood that the Solanco School District reserves the right to reject any or all Bids or Proposals, or parts thereof, or items thereof, and to waive technicalities required for the best interests of the Owner.

The undersigned submits this Bid with the full knowledge of the Contract requirements and hereby agrees that Work of the Project, under this Contract shall be **substantially completed within 454 calendar days, and final acceptance of the Work, including completion of all punch list work, shall be attained within 499 calendar days.** Substantial completion of each of the project phases by the dates designated in the Contract Documents are considered milestones to the overall schedule and are subject to the provisions of Article 8 - "Time" of the AIA A201 General Conditions of the Contract for Construction. **The contract durations stated herein shall be the essence of the Contract.**

The Bidder agrees that it will not assign its Bid or any of its rights or interests hereunder without written consent of the Owner.

The undersigned Contractor agrees to furnish all labor and materials for any additional work ordered by the Owner, and for which no pre-agreed price has been fixed, for the net cost of all labor and materials furnished plus the contracted markup noted in Article 6 of the Supplementary General Conditions.

The Contract amount stated above includes all sales taxes, excise, and other taxes for all materials and appliances subject to and upon which taxes are levied.

THE BID FORM AND THE FOLLOWING ATTACHMENTS SHALL BE SUBMITTED IN DUPLICATE:

1. Two (2) Bid Security
2. Two (2) Non-Collusion Affidavit
3. Two (2) Agreement by Vendor or Independent Contractor to Comply with Act 34 of 1986 and Act 151 of 1995 (as amended)
4. Two (2) Non-Discrimination Affidavit
5. Two (2) Affidavit Accepting Provisions of the Workman's Compensation Acts
6. Two (2) Contractor's Qualification Statement (AIA Document A305)

ALTERNATES: The Instructions to Bidders and the Contract Documents comprising the plans and specifications, and all documents bound therewith, together with all Addenda thereto, shall apply to all Alternate Bids as listed in Division 1 Section "Alternates", and as listed below:

HC-1 Ground Floor Locker Rooms ADD \$ _____

UNIT PRICES: The Instructions to Bidders and the Contract Documents comprising the plans and specifications, and all documents bound therewith, together with all Addenda thereto, shall apply to all Unit Prices as listed in Division 1 Section "Unit Prices", and as listed below:

The Owner reserves the right to accept or reject any and all Unit Prices stipulated on the Bid Form.

HC-1	Chilled Water Pipe Insulation – 1" pipe size	\$	_____	LF
HC-2	Chilled Water Pipe Insulation – 2" pipe size	\$	_____	LF
HC-3	Chilled Water Pipe Insulation – 4" pipe size	\$	_____	LF
HC-4	1-1/4" HVAC Ball Valve	\$	_____	Unit
HC-5	2" HVAC Ball Valve	\$	_____	Unit
HC-6	3" HVAC Ball Valve	\$	_____	Unit
HC-7	4" HVAC Butterfly Valve	\$	_____	Unit
HC-8	6" HVAC Butterfly Valve	\$	_____	Unit
HC-9	Pre-Mix Propylene Glycol Solution	\$	_____	Gallon

ADDENDA

The undersigned hereby acknowledge receipt of following Addenda and has prepared this bid accordingly:

ADDENDUM # _____	Dated _____	ADDENDUM # _____	Dated _____
ADDENDUM # _____	Dated _____	ADDENDUM # _____	Dated _____
ADDENDUM # _____	Dated _____		

Bids shall be officially signed in accordance with the Instructions to Bidders, using the applicable portion of the "Signature Pages".

SIGNATURES

IN WITNESS WHEREOF, the undersigned has caused this Bid to be executed as of the day and year indicated on the first page hereof.

For Individual Bidder

Name of Bidder (Printed)

Witness

By: _____
(Signature of Individual)

Trading and doing business as _____

Business Address _____

*If a fictitious or trade name is employed in the conduct of business, insert name here:

Next, complete, by deletion as appropriate, the following statement:

Foregoing fictitious or trade name (has) (has not) been registered by the individual proprietorship under Pennsylvania Law.

SIGNATURES

IN WITNESS WHEREOF, the undersigned has caused this Bid to be executed as of the day and year indicated on the first page hereof.

For Partnership Bidder

(Name of Partnership)

Name of General Partner (Printed)

Witness

By: _____
(Signature of General Partner)

Business Address _____

The Partners constituting the Partnership herein named are:

Partner	Address
Partner	Address
Partner	Address
Partner	Address

[Add additional lines for the names and addresses of additional Partners, if there are more than four Partners in the Partnership, by attaching an additional page or pages to this Bid.]

*If a fictitious or trade name is employed by the Partnership in conduct of its business, insert name here:

Next, complete, by deletion as appropriate, the following statement:

Foregoing fictitious or trade name (has) (has not) been registered by the partnership under Pennsylvania Law.

SIGNATURES

IN WITNESS WHEREOF, the undersigned has caused this Bid to be executed as of the day and year indicated on the first page hereof.

For Corporate Bidder

(Name of Corporation)

By: _____
Signature of President, Vice President,
or other authorized representative

Attest: _____
Signature of Secretary, Assistant Secretary,
Treasurer, Assistant Treasurer or other authorized
representative **

(CORPORATE SEAL)

Business Address _____

- * If a representative other than the President or a Vice President of the Corporation signs this Bid on its behalf, then attach a valid corporate resolution or other appropriate proof, dated prior to or as of the date of the Bid, evidencing authority to execute this Bid on behalf of the Corporation.
- ** If a representative other than the Secretary, an Assistant Secretary, the Treasurer or an Assistant Treasurer attests to the signature of the corporate representative, then attach a valid corporate resolution or other appropriate proof, dated prior to or as of the date of the Bid, evidencing authority to attest to the execution of this Bid on behalf of the Corporation.

(1) Complete the following statement:

The Corporation has been organized and is existing under laws of the State/Commonwealth of _____

(2) If the Corporation has been organized under laws of a State other than those of the Commonwealth of Pennsylvania, complete, by deletion as appropriate, the following statement:

The Corporation (has) (has not) been granted a certificate of authority to do business in the Commonwealth of Pennsylvania under applicable laws.

(3) If the Corporation has been organized under laws other than those of the Commonwealth of Pennsylvania and has NOT been granted a certificate of authority, complete, by deletion as appropriate, the following statement:

The Corporation (has) (has not) applied for a certificate of authority to do business in the Commonwealth of Pennsylvania and (has) (has not) attached a copy of the pending application to this Bid.

SIGNATURES

IN WITNESS WHEREOF, the undersigned has caused this Bid to be executed as of the day and year indicated on the first page hereof.

For Limited Liability Company (LLC) Bidder

[Name of Contractor]

(Print Name of Limited Liability Company)

Attest: _____
Signature of an authorized representative*

By: _____
Signature of an authorized representative**

* The individual attesting verifies and represents that the person whose signature is affixed to this Bid on behalf of the Limited Liability Company (LLC) is duly authorized in accordance with the representations hereafter set forth.

** Check the box which applies to this Bid:

- ☐ The Certificate of Organization provides that the LLC is to be managed by managers, and this Bid has been executed by a Manager fully authorized by the Certificate, by the Operating Agreement and by Resolutions of the LLC. Copies of the relevant documents are provided with the Bid or can be provided upon request within three (3) working days.
- ☐ The Certificate of Organization does not provide that LLC is to be managed by managers, and this Bid has been executed by a Member fully authorized by the Certificate, by the Operating Agreement and by Resolutions of the LLC. Copies of the relevant documents are provided with the Bid or can be provided upon request within three (3) working days.
- ☐ This Bid has been executed by a representative of the LLC who is not a Manager or a Member of the LLC, and instead who holds the office of _____ (insert title), and the execution of this Bid is fully authorized by the Certificate, by the Operating Agreement and by Resolutions of the LLC. Copies of the relevant documents are provided with the Bid or can be provided upon request within three (3) working days.

The Bidder and the individuals signing and attesting to the execution of this document further represent that (1) execution of the Bid is carrying on business in the usual way; (2) the LLC authorizes the execution of this Bid even if execution and submission of this Bid is not carrying on business in the usual way for the LLC; and (3) to the best of the individuals' information and belief, the Owner has no knowledge of the Member's or the Manager's lack of actual authority, or of any applicable and relevant restriction on his or her authority.

Continued on next page

Complete the following statement:

The LLC has been organized and is existing under laws of the State/Commonwealth of:

If the LLC has been organized under laws of a State other than those of the Commonwealth of Pennsylvania, complete, by deletion as appropriate, the following statement:

The LLC (has) (has not) been granted a certificate of authority to do business in the Commonwealth of Pennsylvania under applicable laws.

If the LLC has been organized under laws other than those of the Commonwealth of Pennsylvania and has NOT been granted a certificate of authority, complete, by deletion as appropriate, the following statement:

The LLC (has) (has not) applied for a certificate of authority to do business in the Commonwealth of Pennsylvania and (has) (has not) attached a copy of the pending application to this Bid.

BID FORM - PLUMBING CONSTRUCTION - CONTRACT 3706-4

DATED: _____
(Bidder to insert date bid submitted)

Bidder's Name | Address (Print or
Type)

Sandy Tucker | Business Manager

The Solanco School District

121 South Hess Street

Quarryville, PA 17566-1225

POC Email Address

POC Phone Number

To Whom It May Concern:

This Bid is submitted in accordance with your Advertisement inviting Bids to be received for the General Construction Work for The New District Administrative Offices and Athletic Fields at Solanco High School for The Solanco School District, Quarryville, PA.

Having carefully examined the Contract Documents as defined in Article 1 of the Agreement, bound in the Specifications, and including the Addenda enumerated in the Bid, which are incorporated with these documents indicating various conditions affecting this Contract, the undersigned herein agrees to furnish all materials, perform all labor and do all else necessary to complete the Contract for the above named Project in accordance with said Contract Documents for:

Total Base Bid Project Cost for All Plumbing Construction

_____ DOLLARS

(\$ _____).

As a Bid Breakout, the Contractor shall identify the cost of all Work included in the Base Bid for construction of the District Administrative Office portion of the project. Refer to the limits or work line noted on the drawings. This breakout price is for Department of Education administrative purposes only and is not to be utilized in the determination of the lowest bidder. The basis of award of Contracts will be the lowest responsive Bid for the sum of the Total Base Bid and any selected Alternates.

The cost of Work included in the Base Bid for the _____ is as follows:

Total Bid Breakout Cost for All Plumbing Construction included in the Base Bid

(\$_____).

Accompanying this Bid is a certified check, bank cashier's check, bank treasurer's check or Bid Bond required by Paragraph 4.2 of the Instructions to Bidders which is deposited as a bid guarantee, and is to be retained by you and applied as provided in Paragraph 4.2.1 of the Instructions to Bidders, in case the undersigned shall default in executing the Contract or in furnishing the required Bonds and insurance certificates within the time specified by these Contract Documents.

The undersigned hereby certifies that this Bid is genuine, and is not a sham or collusive, or made in the interest of, or on behalf of any person, firm or corporation not herein named, and that the undersigned has not directly or indirectly induced or solicited any bidder to refrain from bidding and that the undersigned has not in any manner sought by collusion to secure for itself, any advantages over any other bidder.

The undersigned, intending to be legally bound, agrees that this Bid shall be irrevocable and shall remain subject to your acceptance for 60 days after the date set for bid opening, except as provided by the Commonwealth Procurement Code, which provides for possible extensions of the holding period.

It is hereby certified that the undersigned is the only person(s) or entity(ies) interested in this Bid as Principal, and that the Bid is made without collusion with any person, firm or corporation. The Bidder hereby agrees to furnish surety company bonds in the form incorporated in the Contract Documents, in the amount of one hundred percent (100%) of the Contract Price for the Performance Bond and the Payment Bond as surety against defects or inferior materials or workmanship which may develop during the period of one (1) year from the date of completion and acceptance of the Work performed under the Contract, within five (5) days after notice by the Owner of the intention to award the Contract and execute the Agreement and furnish evidence of required insurance coverage, upon request, within five (5) days after mailing by the Owner of Notice of Intent to Award, and to commence work within forty-eight (48) hours after receipt of Notice to Proceed.

The Bidder guarantees that, if awarded a Contract, it will furnish and deliver all materials, all specified temporary facilities and controls, tools, equipment, tests, and transportation, to secure all permits and licenses, to do and perform all labor, superintendence, and all means of construction, pay all fees (unless specifically noted otherwise), and do all incidental Work, and to execute, construct and finish, in an expeditious, substantial and workmanlike manner in accordance with the plans and specifications, to the complete satisfaction and acceptance of the Owner for the price herein stated.

It is understood that the Solanco School District reserves the right to reject any or all Bids or Proposals, or parts thereof, or items thereof, and to waive technicalities required for the best interests of the Owner.

The undersigned submits this Bid with the full knowledge of the Contract requirements and hereby agrees that Work of the Project, under this Contract shall be **substantially completed within 454 calendar days, and final acceptance of the Work, including completion of all punch list work, shall be attained within 499 calendar days.** Substantial completion of each of the project phases by the dates designated in the Contract Documents are considered milestones to the overall schedule and are subject to the provisions of Article 8 - "Time" of the AIA A201 General Conditions of the Contract for Construction. **The contract durations stated herein shall be the essence of the Contract.**

The Bidder agrees that it will not assign its Bid or any of its rights or interests hereunder without written consent of the Owner.

The undersigned Contractor agrees to furnish all labor and materials for any additional work ordered by the Owner, and for which no pre-agreed price has been fixed, for the net cost of all labor and materials furnished plus the contracted markup noted in Article 6 of the Supplementary General Conditions.

The Contract amount stated above includes all sales taxes, excise, and other taxes for all materials and appliances subject to and upon which taxes are levied.

THE BID FORM AND THE FOLLOWING ATTACHMENTS SHALL BE SUBMITTED IN DUPLICATE:

1. Two (2) Bid Security
2. Two (2) Non-Collusion Affidavit
3. Two (2) Agreement by Vendor or Independent Contractor to Comply with Act 34 of 1986 and Act 151 of 1995 (as amended)
4. Two (2) Non-Discrimination Affidavit
5. Two (2) Affidavit Accepting Provisions of the Workman's Compensation Acts
6. Two (2) Contractor's Qualification Statement (AIA Document A305)

ALTERNATES: The Instructions to Bidders and the Contract Documents comprising the plans and specifications, and all documents bound therewith, together with all Addenda thereto, shall apply to all Alternate Bids as listed in Division 1 Section "Alternates", and as listed below:

PC-1	Unclassified Construction	ADD	\$	_____
PC-2	Ground Floor Locker Room	ADD	\$	_____

ADDENDA

The undersigned hereby acknowledge receipt of following Addenda and has prepared this bid accordingly:

ADDENDUM # _____	Dated _____	ADDENDUM # _____	Dated _____
ADDENDUM # _____	Dated _____	ADDENDUM # _____	Dated _____
ADDENDUM # _____	Dated _____		

Bids shall be officially signed in accordance with the Instructions to Bidders, using the applicable portion of the "Signature Pages".

SIGNATURES

IN WITNESS WHEREOF, the undersigned has caused this Bid to be executed as of the day and year indicated on the first page hereof.

For Individual Bidder

Name of Bidder (Printed)

Witness By: _____
(Signature of Individual)

Trading and doing business as _____

Business Address _____

*If a fictitious or trade name is employed in the conduct of business, insert name here:

Next, complete, by deletion as appropriate, the following statement:

Foregoing fictitious or trade name (has) (has not) been registered by the individual proprietorship under Pennsylvania Law.

SIGNATURES

IN WITNESS WHEREOF, the undersigned has caused this Bid to be executed as of the day and year indicated on the first page hereof.

For Partnership Bidder

(Name of Partnership)

Name of General Partner (Printed)

Witness

By: _____
(Signature of General Partner)

Business Address _____

The Partners constituting the Partnership herein named are:

Partner _____ Address _____

Partner _____ Address _____

Partner _____ Address _____

Partner _____ Address _____

[Add additional lines for the names and addresses of additional Partners, if there are more than four Partners in the Partnership, by attaching an additional page or pages to this Bid.]

*If a fictitious or trade name is employed by the Partnership in conduct of its business, insert name here:

Next, complete, by deletion as appropriate, the following statement:

Foregoing fictitious or trade name (has) (has not) been registered by the partnership under Pennsylvania Law.

SIGNATURES

IN WITNESS WHEREOF, the undersigned has caused this Bid to be executed as of the day and year indicated on the first page hereof.

For Corporate Bidder

(Name of Corporation)

By: _____	Attest: _____
Signature of President, Vice President, other authorized representative *	Signature of Secretary, Assistant Secretary, or Treasurer, Assistant Treasurer or other authorized representative**

(CORPORATE SEAL)

Business Address _____

- * If a representative other than the President or a Vice President of the Corporation signs this Bid on its behalf, then attach a valid corporate resolution or other appropriate proof, dated prior to or as of the date of the Bid, evidencing authority to execute this Bid on behalf of the Corporation.
- ** If a representative other than the Secretary, an Assistant Secretary, the Treasurer or an Assistant Treasurer attests to the signature of the corporate representative, then attach a valid corporate resolution or other appropriate proof, dated prior to or as of the date of the Bid, evidencing authority to attest to the execution of this Bid on behalf of the Corporation.

(1) Complete the following statement:

The Corporation has been organized and is existing under laws of the State/Commonwealth of _____

(2) If the Corporation has been organized under laws of a State other than those of the Commonwealth of Pennsylvania, complete, by deletion as appropriate, the following statement:

The Corporation (has) (has not) been granted a certificate of authority to do business in the Commonwealth of Pennsylvania under applicable laws.

(3) If the Corporation has been organized under laws other than those of the Commonwealth of Pennsylvania and has NOT been granted a certificate of authority, complete, by deletion as appropriate, the following statement:

The Corporation (has) (has not) applied for a certificate of authority to do business in the Commonwealth of Pennsylvania and (has) (has not) attached a copy of the pending application to this Bid.

SIGNATURES

IN WITNESS WHEREOF, the undersigned has caused this Bid to be executed as of the day and year indicated on the first page hereof.

For Limited Liability Company (LLC) Bidder

[Name of Contractor]

(Print Name of Limited Liability Company)

Attest: _____
Signature of an authorized representative*

By: _____
Signature of an authorized representative**

* The individual attesting verifies and represents that the person whose signature is affixed to this Bid on behalf of the Limited Liability Company (LLC) is duly authorized in accordance with the representations hereafter set forth.

** Check the box which applies to this Bid:

- ☐ The Certificate of Organization provides that the LLC is to be managed by managers, and this Bid has been executed by a Manager fully authorized by the Certificate, by the Operating Agreement and by Resolutions of the LLC. Copies of the relevant documents are provided with the Bid or can be provided upon request within three (3) working days.
- ☐ The Certificate of Organization does not provide that LLC is to be managed by managers, and this Bid has been executed by a Member fully authorized by the Certificate, by the Operating Agreement and by Resolutions of the LLC. Copies of the relevant documents are provided with the Bid or can be provided upon request within three (3) working days.
- ☐ This Bid has been executed by a representative of the LLC who is not a Manager or a Member of the LLC, and instead who holds the office of _____ (insert title), and the execution of this Bid is fully authorized by the Certificate, by the Operating Agreement and by Resolutions of the LLC. Copies of the relevant documents are provided with the Bid or can be provided upon request within three (3) working days.

The Bidder and the individuals signing and attesting to the execution of this document further represent that (1) execution of the Bid is carrying on business in the usual way; (2) the LLC authorizes the execution of this Bid even if execution and submission of this Bid is not carrying on business in the usual way for the LLC; and (3) to the best of the individuals' information and belief, the Owner has no knowledge of the Member's or the Manager's lack of actual authority, or of any applicable and relevant restriction on his or her authority.

Continued on next page

Complete the following statement:

The LLC has been organized and is existing under laws of the State/Commonwealth of:

If the LLC has been organized under laws of a State other than those of the Commonwealth of Pennsylvania, complete, by deletion as appropriate, the following statement:

The LLC (has) (has not) been granted a certificate of authority to do business in the Commonwealth of Pennsylvania under applicable laws.

If the LLC has been organized under laws other than those of the Commonwealth of Pennsylvania and has NOT been granted a certificate of authority, complete, by deletion as appropriate, the following statement:

The LLC (has) (has not) applied for a certificate of authority to do business in the Commonwealth of Pennsylvania and (has) (has not) attached a copy of the pending application to this Bid.

BID FORM - ELECTRICAL CONSTRUCTION - CONTRACT 3706-5

DATED: _____
(Bidder to insert date bid submitted)

Bidder's Name | Address (Print or Type)

Sandy Tucker | Business Manager

The Solanco School District

121 South Hess Street

Quarryville, PA 17566-1225

POC Email Address

POC Phone Number

To Whom It May Concern:

This Bid is submitted in accordance with your Advertisement inviting Bids to be received for the General Construction Work for The New District Administrative Offices and Athletic Fields at Solanco High School for The Solanco School District, Quarryville, PA.

Having carefully examined the Contract Documents as defined in Article 1 of the Agreement, bound in the Specifications, and including the Addenda enumerated in the Bid, which are incorporated with these documents indicating various conditions affecting this Contract, the undersigned herein agrees to furnish all materials, perform all labor and do all else necessary to complete the Contract for the above named Project in accordance with said Contract Documents for:

Total Base Bid Project Cost for All Electrical Construction

_____ DOLLARS

(\$ _____).

As a Bid Breakout, the Contractor shall identify the cost of all Work included in the Base Bid for construction of the District Administrative Office portion of the project. Refer to the limits or work line noted on the drawings. This breakout price is for Department of Education administrative purposes only and is not to be utilized in the determination of the lowest bidder. The basis of award of Contracts will be the lowest responsive Bid for the sum of the Total Base Bid and any selected Alternates.

The cost of Work included in the Base Bid for the _____ is as follows:

Total Bid Breakout Cost for All Electrical Construction included in the Base Bid

(\$_____).

Accompanying this Bid is a certified check, bank cashier's check, bank treasurer's check or Bid Bond required by Paragraph 4.2 of the Instructions to Bidders which is deposited as a bid guarantee, and is to be retained by you and applied as provided in Paragraph 4.2.1 of the Instructions to Bidders, in case the undersigned shall default in executing the Contract or in furnishing the required Bonds and insurance certificates within the time specified by these Contract Documents.

The undersigned hereby certifies that this Bid is genuine, and is not a sham or collusive, or made in the interest of, or on behalf of any person, firm or corporation not herein named, and that the undersigned has not directly or indirectly induced or solicited any bidder to refrain from bidding and that the undersigned has not in any manner sought by collusion to secure for itself, any advantages over any other bidder.

The undersigned, intending to be legally bound, agrees that this Bid shall be irrevocable and shall remain subject to your acceptance for 60 days after the date set for bid opening, except as provided by the Commonwealth Procurement Code, which provides for possible extensions of the holding period.

It is hereby certified that the undersigned is the only person(s) or entity(ies) interested in this Bid as Principal, and that the Bid is made without collusion with any person, firm or corporation. The Bidder hereby agrees to furnish surety company bonds in the form incorporated in the Contract Documents, in the amount of one hundred percent (100%) of the Contract Price for the Performance Bond and the Payment Bond as surety against defects or inferior materials or workmanship which may develop during the period of one (1) year from the date of completion and acceptance of the Work performed under the Contract, within five (5) days after notice by the Owner of the intention to award the Contract and execute the Agreement and furnish evidence of required insurance coverage, upon request, within five (5) days after mailing by the Owner of Notice of Intent to Award, and to commence work within forty-eight (48) hours after receipt of Notice to Proceed.

The Bidder guarantees that, if awarded a Contract, it will furnish and deliver all materials, all specified temporary facilities and controls, tools, equipment, tests, and transportation, to secure all permits and licenses, to do and perform all labor, superintendence, and all means of construction, pay all fees (unless specifically noted otherwise), and do all incidental Work, and to execute, construct and finish, in an expeditious, substantial and workmanlike manner in accordance with the plans and specifications, to the complete satisfaction and acceptance of the Owner for the price herein stated.

It is understood that the Solanco School District reserves the right to reject any or all Bids or Proposals, or parts thereof, or items thereof, and to waive technicalities required for the best interests of the Owner.

The undersigned submits this Bid with the full knowledge of the Contract requirements and hereby agrees that Work of the Project, under this Contract shall be **substantially completed within 454 calendar days, and final acceptance of the Work, including completion of all punch list work, shall be attained within 499 calendar days.** Substantial completion of each of the project phases by the dates designated in the Contract Documents are considered milestones to the overall schedule and are subject to the provisions of Article 8 - "Time" of the AIA A201 General Conditions of the Contract for Construction. **The contract durations stated herein shall be the essence of the Contract.**

The Bidder agrees that it will not assign its Bid or any of its rights or interests hereunder without written consent of the Owner.

The undersigned Contractor agrees to furnish all labor and materials for any additional work ordered by the Owner, and for which no pre-agreed price has been fixed, for the net cost of all labor and materials furnished plus the contracted markup noted in Article 6 of the Supplementary General Conditions. The Contract amount stated above includes all sales taxes, excise, and other taxes for all materials and appliances subject to and upon which taxes are levied.

THE BID FORM AND THE FOLLOWING ATTACHMENTS SHALL BE SUBMITTED IN DUPLICATE:

1. Two (2) Bid Security
2. Two (2) Non-Collusion Affidavit
3. Two (2) Agreement by Vendor or Independent Contractor to Comply with Act 34 of 1986 and Act 151 of 1995 (as amended)
4. Two (2) Non-Discrimination Affidavit
5. Two (2) Affidavit Accepting Provisions of the Workman's Compensation Acts
6. Two (2) Contractor's Qualification Statement (AIA Document A305)

ALTERNATES: The Instructions to Bidders and the Contract Documents comprising the plans and specifications, and all documents bound therewith, together with all Addenda thereto, shall apply to all Alternate Bids as listed in Division 1 Section "Alternates", and as listed below:

EC-1	Unclassified Construction	ADD	\$	_____
EC-2	Ground Floor Locker Rooms	ADD	\$	_____
EC-3	Additional Pole Mounted Lighting	ADD	\$	_____
EC-4	NOT USED	ADD	\$	_____
EC-5	Multi-Purpose Turf Field Lighting	ADD	\$	_____

UNIT PRICES: The Instructions to Bidders and the Contract Documents comprising the plans and specifications, and all documents bound therewith, together with all Addenda thereto, shall apply to all Unit Prices as listed in Division 1 Section "Unit Prices", and as listed below:

The Owner reserves the right to accept or reject any and all Unit Prices stipulated on the Bid Form.

EC-1	Duplex Receptacle & Wiring	\$	_____	Assembly
EC-2	Exit Sign & Wiring	\$	_____	Assembly
EC-3	Light Fixture & Wiring	\$	_____	Assembly
EC-4	Heat or Smoke Detector & Wiring	\$	_____	Assembly
EC-5	Duct Detector & Wiring	\$	_____	Assembly
EC-6	Fire Alarm Pull Station & Wiring	\$	_____	Assembly
EC-7	Fire Alarm Audible / Visual Device & Wiring	\$	_____	Assembly
EC-8	Fire Alarm Addressable Device & Wiring	\$	_____	Assembly
E-9	Data Outlets & Wiring	\$	_____	Assembly
EC-10	Surveillance Camera Outlet and Wiring	\$	_____	Assembly
EC-11	60A Fused Disconnect Switch and Wiring	\$	_____	Assembly

ADDENDA

The undersigned hereby acknowledge receipt of following Addenda and has prepared this bid accordingly:

ADDENDUM # _____	Dated _____	ADDENDUM # _____	Dated _____
ADDENDUM # _____	Dated _____	ADDENDUM # _____	Dated _____
ADDENDUM # _____	Dated _____		

Bids shall be officially signed in accordance with the Instructions to Bidders, using the applicable portion of the "Signature Pages".

SIGNATURES

IN WITNESS WHEREOF, the undersigned has caused this Bid to be executed as of the day and year indicated on the first page hereof.

For Individual Bidder

Name of Bidder (Printed)

_____	By: _____
Witness	(Signature of Individual)

Trading and doing business as * _____

Business Address _____

*If a fictitious or trade name is employed in the conduct of business, insert name here:

Next, complete, by deletion as appropriate, the following statement:

Foregoing fictitious or trade name (has) (has not) been registered by the individual proprietorship under Pennsylvania Law.

SIGNATURES

IN WITNESS WHEREOF, the undersigned has caused this Bid to be executed as of the day and year indicated on the first page hereof.

For Partnership Bidder

*

(Name of Partnership)

Name of General Partner (Printed)

Witness

By: _____

(Signature of General Partner)

Business Address _____

The Partners constituting the Partnership herein named are:

Partner _____ Address _____

Partner _____ Address _____

Partner _____ Address _____

Partner _____ Address _____

[Add additional lines for the names and addresses of additional Partners, if there are more than four Partners in the Partnership, by attaching an additional page or pages to this Bid.]

*If a fictitious or trade name is employed by the Partnership in conduct of its business, insert name here:

Next, complete, by deletion as appropriate, the following statement:

Foregoing fictitious or trade name (has) (has not) been registered by the partnership under Pennsylvania Law.

SIGNATURES

IN WITNESS WHEREOF, the undersigned has caused this Bid to be executed as of the day and year indicated on the first page hereof.

For Corporate Bidder

(Name of Corporation)

By: _____	Attest: _____
Signature of President, Vice President, or other authorized representative *	Signature of Secretary, Assistant Secretary, Treasurer, Assistant Treasurer or other authorized representative **

(CORPORATE SEAL)

Business Address _____

- * If a representative other than the President or a Vice President of the Corporation signs this Bid on its behalf, then attach a valid corporate resolution or other appropriate proof, dated prior to or as of the date of the Bid, evidencing authority to execute this Bid on behalf of the Corporation.
- ** If a representative other than the Secretary, an Assistant Secretary, the Treasurer or an Assistant Treasurer attests to the signature of the corporate representative, then attach a valid corporate resolution or other appropriate proof, dated prior to or as of the date of the Bid, evidencing authority to attest to the execution of this Bid on behalf of the Corporation.

(1) Complete the following statement:

The Corporation has been organized and is existing under laws of the State/Commonwealth of _____

(2) If the Corporation has been organized under laws of a State other than those of the Commonwealth of Pennsylvania, complete, by deletion as appropriate, the following statement:

The Corporation (has) (has not) been granted a certificate of authority to do business in the Commonwealth of Pennsylvania under applicable laws.

(3) If the Corporation has been organized under laws other than those of the Commonwealth of Pennsylvania and has NOT been granted a certificate of authority, complete, by deletion as appropriate, the following statement:

The Corporation (has) (has not) applied for a certificate of authority to do business in the Commonwealth of Pennsylvania and (has) (has not) attached a copy of the pending application to this Bid.

SIGNATURES

IN WITNESS WHEREOF, the undersigned has caused this Bid to be executed as of the day and year indicated on the first page hereof.

For Limited Liability Company (LLC) Bidder

[Name of Contractor]

(Print Name of Limited Liability Company)

Attest: _____ By: _____
Signature of an authorized representative* Signature of an authorized representative**

* The individual attesting verifies and represents that the person whose signature is affixed to this Bid on behalf of the Limited Liability Company (LLC) is duly authorized in accordance with the representations hereafter set forth.

** Check the box which applies to this Bid:

- ☐ The Certificate of Organization provides that the LLC is to be managed by managers, and this Bid has been executed by a Manager fully authorized by the Certificate, by the Operating Agreement and by Resolutions of the LLC. Copies of the relevant documents are provided with the Bid or can be provided upon request within three (3) working days.
- ☐ The Certificate of Organization does not provide that LLC is to be managed by managers, and this Bid has been executed by a Member fully authorized by the Certificate, by the Operating Agreement and by Resolutions of the LLC. Copies of the relevant documents are provided with the Bid or can be provided upon request within three (3) working days.
- ☐ This Bid has been executed by a representative of the LLC who is not a Manager or a Member of the LLC, and instead who holds the office of _____ (insert title), and the execution of this Bid is fully authorized by the Certificate, by the Operating Agreement and by Resolutions of the LLC. Copies of the relevant documents are provided with the Bid or can be provided upon request within three (3) working days.

The Bidder and the individuals signing and attesting to the execution of this document further represent that (1) execution of the Bid is carrying on business in the usual way; (2) the LLC authorizes the execution of this Bid even if execution and submission of this Bid is not carrying on business in the usual way for the LLC; and (3) to the best of the individuals' information and belief, the Owner has no knowledge of the Member's or the Manager's lack of actual authority, or of any applicable and relevant restriction on his or her authority.

Continued on next page

Complete the following statement:

The LLC has been organized and is existing under laws of the State/Commonwealth of:

If the LLC has been organized under laws of a State other than those of the Commonwealth of Pennsylvania, complete, by deletion as appropriate, the following statement:

The LLC (has) (has not) been granted a certificate of authority to do business in the Commonwealth of Pennsylvania under applicable laws.

If the LLC has been organized under laws other than those of the Commonwealth of Pennsylvania and has NOT been granted a certificate of authority, complete, by deletion as appropriate, the following statement:

The LLC (has) (has not) applied for a certificate of authority to do business in the Commonwealth of Pennsylvania and (has) (has not) attached a copy of the pending application to this Bid.

AIA® Document A305® – 2020

Contractor's Qualification Statement

THE PARTIES SHOULD EXECUTE A SEPARATE CONFIDENTIALITY AGREEMENT IF THEY INTEND FOR ANY OF THE INFORMATION IN THIS A305-2020 TO BE HELD CONFIDENTIAL.

SUBMITTED BY: _____ **SUBMITTED TO:** _____
(Organization name and address.) (Organization name and address.)

TYPE OF WORK TYPICALLY PERFORMED

(Indicate the type of work your organization typically performs, such as general contracting, construction manager as constructor services, HVAC contracting, electrical contracting, plumbing contracting, or other.)

THIS CONTRACTOR'S QUALIFICATION STATEMENT INCLUDES THE FOLLOWING:
(Check all that apply.)

- ☐ Exhibit A – General Information
- ☐ Exhibit B – Financial and Performance Information
- ☐ Exhibit C – Project-Specific Information
- ☐ Exhibit D – Past Project Experience
- ☐ Exhibit E – Past Project Experience (Continued)

CONTRACTOR CERTIFICATION

The undersigned certifies under oath that the information provided in this Contractor's Qualification Statement is true and sufficiently complete so as not to be misleading.

Organization's Authorized Representative
Signature

Date

Printed Name and Title

NOTARY

State of:

County of:

Signed and sworn to before me this _____ day of _____

Notary Signature

My commission expires: _____

ADDITIONS AND DELETIONS:

The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

AIA Document A305® – 2020 Exhibit A

General Information

This Exhibit is part of the Contractor's Qualification Statement, submitted by _____ and dated the _____ day of _____ in the year _____.
(In words, indicate day, month and year.)

§ A.1 ORGANIZATION

§ A.1.1 Name and Location

§ A.1.1.1 Identify the full legal name of your organization.

§ A.1.1.2 List all other names under which your organization currently does business and, for each name, identify jurisdictions in which it is registered to do business under that trade name.

§ A.1.1.3 List all prior names under which your organization has operated and, for each name, indicate the date range and jurisdiction in which it was used.

§ A.1.1.4 Identify the address of your organization's principal place of business and list all office locations out of which your organization conducts business. If your organization has multiple offices, you may attach an exhibit or refer to a website.

§ A.1.2 Legal Status

§ A.1.2.1 Identify the legal status under which your organization does business, such as sole proprietorship, partnership, corporation, limited liability corporation, joint venture, or other.

- .1** If your organization is a corporation, identify the state in which it is incorporated, the date of incorporation, and its four highest-ranking corporate officers and their titles, as applicable.
- .2** If your organization is a partnership, identify its partners and its date of organization.
- .3** If your organization is individually owned, identify its owner and date of organization.

ADDITIONS AND DELETIONS:

The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

- .4** If the form of your organization is other than those listed above, describe it and identify its individual leaders:

§ A.1.2.2 Does your organization own, in whole or in part, any other construction-related businesses? If so, identify and describe those businesses and specify percentage of ownership.

§ A.1.3 Other Information

§ A.1.3.1 How many years has your organization been in business?

§ A.1.3.2 How many full-time employees work for your organization?

§ A.1.3.3 List your North American Industry Classification System (NAICS) codes and titles. Specify which is your primary NAICS code.

§ A.1.3.4 Indicate whether your organization is certified as a governmentally recognized special business class, such as a minority business enterprise, woman business enterprise, service disabled veteran owned small business, woman owned small business, small business in a HUBZone, or a small disadvantaged business in the 8(a) Business Development Program. For each, identify the certifying authority and indicate jurisdictions to which such certification applies.

§ A.2 EXPERIENCE

§ A.2.1 Complete Exhibit D to describe up to four projects, either completed or in progress, that are representative of your organization's experience and capabilities.

§ A.2.2 State your organization's total dollar value of work currently under contract.

§ A.2.3 Of the amount stated in Section A.2.2, state the dollar value of work that remains to be completed:

§ A.2.4 State your organization's average annual dollar value of construction work performed during the last five years.

§ A.3 CAPABILITIES

§ A.3.1 List the categories of work that your organization typically self-performs.

§ A.3.2 Identify qualities, accreditations, services, skills, or personnel that you believe differentiate your organization from others.

§ A.3.3 Does your organization provide design collaboration or pre-construction services? If so, describe those services.

§ A.3.4 Does your organization use building information modeling (BIM)? If so, describe how your organization uses BIM and identify BIM software that your organization regularly uses.

§ A.3.5 Does your organization use a project management information system? If so, identify that system.

§ A.4 REFERENCES

§ A.4.1 Identify three client references:

(Insert name, organization, and contact information)

§ A.4.2 Identify three architect references:

(Insert name, organization, and contact information)

§ A.4.3 Identify one bank reference:

(Insert name, organization, and contact information)

§ A.4.4 Identify three subcontractor or other trade references:

(Insert name, organization, and contact information)



Document A305® – 2020 Exhibit B

Financial and Performance Information

This Exhibit is part of the Contractor's Qualification Statement, submitted by and dated the day of in the year
(In words, indicate day, month and year.)

§ B.1 FINANCIAL

§ B.1.1 Federal tax identification number:

§ B.1.2 Attach financial statements for the last three years prepared in accordance with Generally Accepted Accounting Principles, including your organization's latest balance sheet and income statement. Also, indicate the name and contact information of the firm that prepared each financial statement.

§ B.1.3 Has your organization, its parent, or a subsidiary, affiliate, or other entity having common ownership or management, been the subject of any bankruptcy proceeding within the last ten years?

§ B.1.4 Identify your organization's preferred credit rating agency and identification information.

(Identify rating agency, such as Dun and Bradstreet or Equifax, and insert your organization's identification number or other method of searching your organization's credit rating with such agency.)

§ B.2 DISPUTES AND DISCIPLINARY ACTIONS

§ B.2.1 Are there any pending or outstanding judgments, arbitration proceedings, bond claims, or lawsuits against your organization, its parent, or a subsidiary, affiliate, or other entity having common ownership or management, or any of the individuals listed in Exhibit A, Section 1.2, in which the amount in dispute is more than \$75,000?

(If the answer is yes, provide an explanation.)

§ B.2.2 In the last five years has your organization, its parent, or a subsidiary, affiliate, or other entity having common ownership or management:

(If the answer to any of the questions below is yes, provide an explanation.)

.1 failed to complete work awarded to it?

.2 been terminated for any reason except for an owners' convenience?

ADDITIONS AND DELETIONS:

The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

.3 had any judgments, settlements, or awards pertaining to a construction project in which your organization was responsible for more than \$75,000?

.4 filed any lawsuits or requested arbitration regarding a construction project?

§ B.2.3 In the last five years, has your organization, its parent, or a subsidiary, affiliate, or other entity having common ownership or management; or any of the individuals listed in Exhibit A Section 1.2:
(If the answer to any of the questions below is yes, provide an explanation.)

.1 been convicted of, or indicted for, a business-related crime?

.2 had any business or professional license subjected to disciplinary action?

.3 been penalized or fined by a state or federal environmental agency?



AIA Document A305® – 2020 Exhibit C

Project Specific Information

This Exhibit is part of the Contractor's Qualification Statement, submitted by and dated the day of in the year
(In words, indicate day, month and year.)

PROJECT:

(Name and location or address.)

CONTRACTOR'S PROJECT OFFICE:

(Identify the office out of which the contractor proposes to perform the work for the Project.)

TYPE OF WORK SOUGHT

(Indicate the type of work you are seeking for this Project, such as general contracting, construction manager as constructor, design-build, HVAC subcontracting, electrical subcontracting, plumbing subcontracting, etc.)

CONFLICT OF INTEREST

Describe any conflict of interest your organization, its parent, or a subsidiary, affiliate, or other entity having common ownership or management, or any of the individuals listed in Exhibit A Section 1.2, may have regarding this Project.

§ C.1 PERFORMANCE OF THE WORK

§ C.1.1 When was the Contractor's Project Office established?

§ C.1.2 How many full-time field and office staff are respectively employed at the Contractor's Project Office?

§ C.1.3 List the business license and contractor license or registration numbers for the Contractor's Project Office that pertain to the Project.

§ C.1.4 Identify key personnel from your organization who will be meaningfully involved with work on this Project and indicate (1) their position on the Project team, (2) their office location, (3) their expertise and experience, and (4) projects similar to the Project on which they have worked.

ADDITIONS AND DELETIONS:

The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

§ C.1.5 Identify portions of work that you intend to self-perform on this Project.

§ C.1.6 To the extent known, list the subcontractors you intend to use for major portions of work on the Project.

§ C.2 EXPERIENCE RELATED TO THE PROJECT

§ C.2.1 Complete Exhibit D to describe up to four projects performed by the Contractor's Project Office, either completed or in progress, that are relevant to this Project, such as projects in a similar geographic area or of similar project type. If you have already completed Exhibit D, but want to provide further examples of projects that are relevant to this Project, you may complete Exhibit E.

§ C.2.2 State the total dollar value of work currently under contract at the Contractor's Project Office:

§ C.2.3 Of the amount stated in Section C.2.2, state the dollar value of work that remains to be completed:

§ C.2.4 State the average annual dollar value of construction work performed by the Contractor's Project Office during the last five years.

§ C.2.5 List the total number of projects the Contractor's Project Office has completed in the last five years and state the dollar value of the largest contract the Contractor's Project Office has completed during that time.

§ C.3 SAFETY PROGRAM AND RECORD

§ C.3.1 Does the Contractor's Project Office have a written safety program?

§ C.3.2 List all safety-related citations and penalties the Contractor's Project Office has received in the last three years.

§ C.3.3 Attach the Contractor's Project Office's OSHA 300a Summary of Work-Related Injuries and Illnesses form for the last three years.

§ C.3.4 Attach a copy of your insurance agent's verification letter for your organization's current workers' compensation experience modification rate and rates for the last three years.

§ C.4 INSURANCE

§ C.4.1 Attach current certificates of insurance for your commercial general liability policy, umbrella insurance policy, and professional liability insurance policy, if any. Identify deductibles or self-insured retentions for your commercial general liability policy.

§ C.4.2 If requested, will your organization be able to provide property insurance for the Project written on a builder's risk "all-risks" completed value or equivalent policy form and sufficient to cover the total value of the entire Project on a replacement cost basis?

§ C.4.3 Does your commercial general liability policy contain any exclusions or restrictions of coverage that are prohibited in AIA Document A101-2017, Exhibit A, Insurance A.3.2.2.2? If so, identify.

§ C.5 SURETY

§ C.5.1 If requested, will your organization be able to provide a performance and payment bond for this Project?

§ C.5.2 Surety company name:

§ C.5.3 Surety agent name and contact information:

§ C.5.4 Total bonding capacity:

§ C.5.5 Available bonding capacity as of the date of this qualification statement:



AIA® Document A305® – 2020 Exhibit D

Contractor's Past Project Experience

	1	2	3	4
PROJECT NAME				
PROJECT LOCATION				
PROJECT TYPE				
OWNER				
ARCHITECT				
CONTRACTOR'S PROJECT EXECUTIVE				
KEY PERSONNEL (include titles)				
PROJECT DETAILS	Contract Amount Completion Date % Self-Performed Work	Contract Amount Completion Date % Self-Performed Work	Contract Amount Completion Date % Self-Performed Work	Contract Amount Completion Date % Self-Performed Work
PROJECT DELIVERY METHOD	☐ Design-bid-build ☐ Design-build ☐ CM constructor ☐ CM advisor ☐ Other:	☐ Design-bid-build ☐ Design-build ☐ CM constructor ☐ CM advisor ☐ Other:	☐ Design-bid-build ☐ Design-build ☐ CM constructor ☐ CM advisor ☐ Other:	☐ Design-bid-build ☐ Design-build ☐ CM constructor ☐ CM advisor ☐ Other:
SUSTAINABILITY CERTIFICATIONS				



AIA Document A305® – 2020 Exhibit E

Contractor's Past Project Experience, Continued

	1	2	3	4
PROJECT NAME				
PROJECT LOCATION				
PROJECT TYPE				
OWNER				
ARCHITECT				
CONTRACTOR'S PROJECT EXECUTIVE				
KEY PERSONNEL (include titles)				
PROJECT DETAILS	Contract Amount Completion Date % Self-Performed Work	Contract Amount Completion Date % Self-Performed Work	Contract Amount Completion Date % Self-Performed Work	Contract Amount Completion Date % Self-Performed Work
PROJECT DELIVERY METHOD	☐ Design-bid-build ☐ Design-build ☐ CM constructor ☐ CM advisor ☐ Other:	☐ Design-bid-build ☐ Design-build ☐ CM constructor ☐ CM advisor ☐ Other:	☐ Design-bid-build ☐ Design-build ☐ CM constructor ☐ CM advisor ☐ Other:	☐ Design-bid-build ☐ Design-build ☐ CM constructor ☐ CM advisor ☐ Other:
SUSTAINABILITY CERTIFICATIONS				

SECTION 000429 - NON-COLLUSION AFFIDAVIT OF CONTRACTOR

State of _____

County of _____ being first duly sworn, states that:

(1) They are _____ the (owner, partner, office, representative agent)

Of _____ (Company),

the Bidder that has submitted that attached Bid;

(2) They are fully informed respecting the preparation and contents of the attached Bid and of all pertinent circumstances respecting such Bid;

(3) Such Bid is genuine and is not a collusive or sham Bid;

(4) Neither said Bidder nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affidavit, has, in any way, colluded, conspired, connived, or agreed, directly or indirectly with any other bidder, firm or person to submit a collusive or sham Bid in connection with the Contract for which the attached Bid has been submitted or to refrain from bidding in connection with such Contract, or has in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other bidder, firm or person, to fix the price or prices in the attached Bid or of any other bidder, or to fix any overhead, profit, or cost element of the Bid price or the Bid price of any other bidder, or to secure through any collusion, conspiracy, connivance or unlawful agreement any advantage against The Solanco School District or any person interested in the proposed Contract; and,

(5) The price or prices quoted in the attached Bid are fair and proper and are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the Bidder or any of its agents, representatives, owners, employees, or parties in interest, including this affidavit.

_____/s/

_____ Title

Subscribed and sworn to before me this _____ day of _____, 20_____.

By: _____
Notary Public

My Commission Expires:

SECTION 000460 - NON-DISCRIMINATION AFFIDAVIT

_____, hereinafter referred to as CONTRACTOR, agrees as follows:

1. CONTRACTOR shall not discriminate against any employee, applicant for employment, independent contractor, or any other person because of race, color, religious creed, ancestry, national origin, age, or sex. CONTRACTOR shall take affirmative action to ensure that applicants are employed, and that employees or agents are treated, during employment, without regard to their race, color, religious creed, ancestry, national origin, age or sex. Such affirmative action shall include, but is not 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. CONTRACTOR shall post in conspicuous places, available to all employees, agents, applicants for employment, and other persons a notice to be provided by the contracting agency setting forth the provisions of the non-discrimination clause.
2. CONTRACTOR shall, in advertisement or requests for employment placed by it or on its behalf, state that all qualified applicants will receive consideration for employment without regard to race, color, religious creed, ancestry, national origin, age or sex.
3. CONTRACTOR shall send each labor union or worker's representative with which it has a collective bargaining agreement or other contract or understanding, a Notice advising said labor union or workers' representative of its commitment to this non-discrimination clause. Similar notice shall be sent to every other source of recruitment regularly utilized by CONTRACTOR.
4. It shall be no defense to a finding of non-compliance with the Contract Compliance Regulation Commission or this non-discrimination clause that CONTRACTOR had delegated some of its employment practices to any union, training program, or other source or recruitment which prevents it from meeting its obligations. However, if the evidence indicates that CONTRACTOR was not on notice of the third-party discrimination or made a good faith effort to correct it, such factor shall be considered in mitigation in determining appropriate sanctions.
5. Where the practice of a union or any training program or other source of recruitment will result in the exclusion of minority group persons, so that CONTRACTOR will be unable to meet its obligations under the Contract Compliance Regulations issued by the Pennsylvania Human Relations Commission or this non-discrimination clause, CONTRACTOR shall then employ and fill vacancies through other non-discriminatory employment procedures.
6. CONTRACTOR shall comply with the Contract Compliance Regulations of the Pennsylvania Human Relations Commission, 16 PA Code Chapter 49 and with all state and federal laws prohibiting discrimination in hiring or employment opportunities. In the event of CONTRACTOR's noncompliance with the non-discrimination clause of this CONTRACT, or with any such laws, this CONTRACT may, after hearing and adjudication, be terminated or suspended, in whole or in part, and CONTRACTOR may be declared temporarily ineligible for further contracts and other such sanctions may be imposed and remedies invoked as provided by the Contract Compliance Regulations.
7. CONTRACTOR shall furnish all necessary employment documents and records to, and permit access

to its books, records, and accounts by the contracting agency, the Office of Administration, Bureau of Affirmative Action, and the Human Relations Commission for purposes of investigation to ascertain compliance with the provisions of the Contract Compliance Regulations, pursuant to 49.35 of the regulations cited above (relating to information concerning compliance by contractors). If CONTRACTOR does not possess documents or records reflecting the necessary information requested, it shall furnish such information on reporting forms supplied by the contracting agency, the Bureau of Affirmative Action or the COMMISSION.

8. CONTRACTOR shall actively recruit minority subcontractor or subcontractors with substantial minority representation among their employees.
9. CONTRACTOR shall include the provisions of the non-discrimination clause in every subcontract, so that such provisions will be binding upon each subcontractor.
10. The terms used in this non-discrimination clause shall have the same meaning as in the Contract Compliance Regulations issued by the Pennsylvania Human relations Commission, 16 PA Code Chapter 49.
11. CONTRACTOR obligations under this clause are limited to CONTRACTOR's facilities within Pennsylvania, or, where the contract is for the purchase of goods manufactured outside of Pennsylvania, the facilities at which such goods are actually produced.

CONTRACTOR:

WITNESS:

By _____

State of _____, County of _____

Subscribed to and sworn to before me this _____ day of _____, 20 _____

Notary Public: _____

My Commission Expires: _____



AIA® Document A101® – 2017

Standard Form of Agreement Between Owner and Contractor where the basis of payment is a Stipulated Sum

AGREEMENT made as of the _____ day of _____ in the year _____
(In words, indicate day, month and year.)

BETWEEN the Owner:
(Name, legal status, address and other information)

| and the Contractor: **CONTRACT:**
(Name, legal status, address and other information)

for the following Project:
(Name, location and detailed description)

The Architect:
(Name, legal status, address and other information)

The Owner and Contractor agree as follows.

ADDITIONS AND DELETIONS:

The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

The parties should complete A101®–2017, Exhibit A, Insurance and Bonds, contemporaneously with this Agreement. AIA Document A201®–2017, General Conditions of the Contract for Construction, is adopted in this document by reference. Do not use with other general conditions unless this document is modified.

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

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 or 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:
(Insert 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 Agreement.

§ 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 **as stipulated in Article 9 of Specification Section 000101 and further defined on the Bid Form for this Contract:**

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

Init.

[X] Not later than () calendar days from the date of commencement of the Work.

[] By the following date:

§ 3.3.2 Subject to adjustments of the Contract Time as provided in the Contract Documents, if portions of the Work are to be completed prior to Substantial Completion of the entire Work, the Contractor shall achieve Substantial Completion of such portions by the following dates:

Portion of Work	Substantial Completion Date
If applicable, see Phasing Narrative in Specification Section 011000.	

§ 3.3.3 If the Contractor fails to achieve Substantial Completion as provided in this Section 3.3, liquidated damages, if any, shall be assessed as set forth in Section 4.5.

ARTICLE 4 CONTRACT SUM

§ 4.1 The Owner shall pay the Contractor the Contract Sum in current funds for the Contractor's performance of the Contract. The Contract Sum shall be (\$), subject to additions and deductions as provided in the Contract Documents.

§ 4.2 Alternates

§ 4.2.1 Alternates, if any, included in the Contract Sum:

Item	Price
------	-------

§ 4.2.2 Subject to the conditions noted below, the following alternates may be accepted by the Owner following execution of this Agreement. Upon acceptance, the Owner shall issue a Modification to this Agreement. (Insert below each alternate and the conditions that must be met for the Owner to accept the alternate.)

Item	Price	Conditions for Acceptance
------	-------	---------------------------

§ 4.3 Allowances, if any, included in the Contract Sum: (Identify each allowance.)

Item
No cash allowances. Refer to specification section 012200 Unit Prices for applicable quantity allowances to be included in the Base Bid.

7 4. 4 Unit prices, if any:

(Identify the item and state the unit price and quantity limitations, if any, to which the unit price will be applicable.)

Item	Units and Limitations	Price per Unit (\$0.00)
------	-----------------------	-------------------------

§ 4.5 Liquidated damages, if (Paragraphs deleted)
applicable, shall be as stipulated in Paragraph 8.4 of Specification Section 000750 or another Contract Document.

§ 4.6 Other:
(Insert provisions for bonus or other incentives, if any, that might result in a change to the Contract Sum.)

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, **and approved by the Owner**, 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 Refer to Article 9 of Specification Section 000750 and Specification Section 012900 for further information. The payment schedule will also be finalized at the first Pre-Construction Meeting.

(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 A201™–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;
- .3 Any amount for which the Contractor does not intend to pay a Subcontractor or material supplier, unless 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.)

In accordance with AIA Document A201-2017 and as further described in Article 9 of Specification Section 000750.

Init.

§ 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.)

In accordance with Article 9 of AIA Document A201-2017 and as further described in Article 9 of Specification Section 000750.

§ 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.)

In accordance with Article 9 of AIA Document A201-2017 and as further described in Article 9 of Specification Section 000750.

§ 5.1.7.3 Except as set forth in this Section 5.1.7.3, upon Substantial Completion of the Work, the Contractor may submit an Application for Payment that includes the retainage withheld from prior Applications for Payment pursuant to this Section 5.1.7. The Application for Payment submitted at Substantial Completion shall not include retainage as follows:
(Insert any other conditions for release of retainage upon Substantial Completion.)

In accordance with Article 9 of AIA Document A201-2017 and as further described in Article 9 of Specification Section 000750.

§ 5.1.8 Intentionally deleted.

§ 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 the site.

§ 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

- .1 the Contractor has fully performed the Contract except for the Contractor's responsibility to correct Work as provided in Article 12 of AIA Document A201-2017, and to satisfy other requirements, if any, which extend beyond final payment; and
- .2 a final Certificate for Payment has been issued by the Architect **and approved by the Owner.**

§ 5.2.2 The Owner's final payment to the Contractor shall be made no later than 30 days after the issuance of the Architect's final Certificate for Payment, **and approval by the Owner.**

§ 5.3 Interest

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

%

ARTICLE 6 DISPUTE RESOLUTION

§ 6.1 Initial Decision Maker

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

§ 6.2 Binding Dispute Resolution

For any Claim subject to, but not resolved by, mediation pursuant to Article 15 of AIA Document A201–2017, the method of binding dispute resolution shall be as follows:
(Check the appropriate box.)

[
(Paragraphs deleted)

☒] Pursuant to **Article 15** of AIA Document A201–2017 **and further modified in Specification Article 15 of Section 000750**

If the Owner and Contractor do not select a method of binding dispute resolution, or do not subsequently agree in writing to a binding dispute resolution method other than litigation, Claims will be resolved by litigation in a court of competent jurisdiction.

ARTICLE 7 TERMINATION OR SUSPENSION

§ 7.1 The Contract may be terminated by the Owner or the Contractor as provided in Article 14 of AIA Document A201–2017.

(Paragraphs deleted)

§ 7.2 The Work may be suspended by the Owner as provided in Article 14 of AIA Document A201–2017.

ARTICLE 8 MISCELLANEOUS PROVISIONS

§ 8.1 Where reference is made in this Agreement to a provision of AIA Document A201–2017 or another Contract Document, the reference refers to that provision as amended or supplemented by other provisions of the Contract Documents.

§ 8.2 The Owner's representative:
(Name, address, email address, and other information)

§ 8.3 The Contractor's representative:
(Name, address, 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.

§ 8.5 Insurance and Bonds

AIA Document A101™ -2017, Exhibit A, Insurance and Bonds, referenced on Page 1 of this Agreement is not being incorporated as part of this Agreement.

§ 8.5.1 The Owner and the Contractor shall purchase and maintain insurance as set forth in **AIA Document A201™-2017, General Conditions of the Contract for Construction, Article 11 of Specification Section 000750**, and elsewhere in the Contract Documents.

§.8.5.1.1 The Contractor's Commercial General Liability policy shall not contain an exclusion or restriction of coverage for the following:

- .1 **Claims by one insured against another insured, if the exclusion or restriction is based solely on the fact that the claimant is an insured, and there would otherwise be coverage for the claim.**
- .2 **Claims for property damage to the Contractor's Work arising out of the products-completed operations hazard where the damaged Work or the Work out of which the damage arises was performed by a Subcontractor.**
- .3 **Claims for bodily injury other than to employees of the insured.**
- .4 **Claims for indemnity under Section 3.18 of the General Conditions arising out of injury to employees of the insured.**
- .5 **Claims or loss excluded under a prior work endorsement or other similar exclusionary language.**
- .6 **Claims or loss due to physical damage under a prior injury endorsement or similar exclusionary language.**
- .7 **Claims related to roofing, if the Work involves roofing.**
- .8 **Claims related to exterior insulation finish systems (EIFS), synthetic stucco or similar exterior coatings or surfaces, if the Work involves such coatings or surfaces.**
- .9 **Claims related to earth subsidence or movement, where the Work involves such hazards.**
- .10 **Claims related to explosion, collapse and underground hazards, where the Work involves such hazards.**

§ 8.5.2 The Contractor shall provide bonds as set forth in AIA Document A201™–2017, General Conditions of the Contract for Construction, **Article 11 of Specification Section 000750, Article 7 of Specification Section 000101,** 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 E203™–2013, Building Information Modeling and Digital Data Exhibit, if completed, or as otherwise set forth below:

(Paragraphs deleted)

§ 8.7 Other provisions:

ARTICLE 9 ENUMERATION OF CONTRACT DOCUMENTS

§ 9.1 This Agreement is comprised of the following documents:

- .1 **AIA Document A101™–2017, Standard Form of Agreement Between Owner and Contractor as modified**
- .2 **Intentionally deleted**
- .3 **AIA Document A201™–2017, General Conditions of the Contract for Construction**
- .4 **Intentionally deleted**

(Paragraphs deleted)

Intentionally deleted

- .5 **Drawings**

Number	Title	Date
See Exhibit A – List of Drawings		

- .6 **Specifications**

Section	Title	Date	Pages
See Exhibit B – Table of Contents			

- .7 **Addenda, if any:**

Number	Date	Pages
--------	------	-------

Init.

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.

- .8 Other Exhibits:
(Check all boxes that apply and include appropriate information identifying the exhibit where required.)

[
(Paragraphs deleted)

X] Supplementary and other Conditions of the Contract:

Document	Title	Date	Pages
See Exhibit B – Table of Contents			

(Paragraphs deleted)

- .9 Other documents, if any, listed below:
(List here any additional documents that are intended to form part of the Contract Documents. AIA Document A201™–2017 provides that the advertisement or invitation to bid, Instructions to Bidders, sample forms, the Contractor's bid or proposal, portions of Addenda relating to bidding or proposal requirements, and other information furnished by the Owner in anticipation of receiving bids or proposals, are not part of the Contract Documents unless enumerated in this Agreement. Any such documents should be listed here only if intended to be part of the Contract Documents.)

Exhibits A List of Drawings and Exhibit B Table of Contents

This Agreement entered into as of the day and year first written above.

OWNER (Signature)

(Printed name and title)

CONTRACTOR (Signature)

(Printed name and title)

Init.

SECTION 000510 - AGREEMENT BY VENDOR OR INDEPENDENT CONTRACTOR TO COMPLY WITH ACT 34
OF 1986 AND ACT 151 OF 1995 (AS AMENDED)

This Agreement shall be part of the Contract between the undersigned individual or business and The Solanco School District (hereinafter "Owner") dated _____ for the sale or the provision of services as a vendor or independent contractor (hereinafter "Contractor") in the matter of New District Administrative Offices and Athletic Fields – Quarryville, PA (hereinafter "Project").

1. Contractor acknowledges that Section 111 of the Public School Code (Act 34 of 1986, as amended by Act 114 of 2006, Act 61 of 2008, and Act 24 of 2011, 24 P.S. §1-111 et seq.), and Act 151 of 1995, require, among other things, background checks for each employee, contractor, independent contractor, and their subcontractors who will have direct contact with school children. Contractor shall comply with all such background check requirements, and any employee prohibited by Pennsylvania law from working on Project shall not be employed by Contractor on Project.
2. Contractor is required to submit its background check reports to Owner. None of the background reports shall be more than ONE (1) year old at the time submitted to Owner. There are three required background checks for ALL Contractor's employees, prospective employees, and subcontractors:
 - a. Pennsylvania State Police Criminal History Record;
 - b. Department of Public Welfare Child Abuse Report;
 - c. Federal Criminal History Record Information (CHRI) – FBI Report
3. Contractor acknowledges that individuals convicted of certain offenses, and any individual named as the perpetrator of an indicated or a founded report of abuse, or one who is named as the individual responsible for injury or abuse, are prohibited from employment on Project.
4. The Commonwealth of Pennsylvania has established procedures by which all contractors can comply with the required background checks. Contractor is responsible for complying with all applicable background check procedures and statutes. Failure to fully comply with all applicable laws regarding background checks subjects Contractor to penalties under the law and to immediate termination of any Contract entered into by Owner, and/or disqualifies Contractor from contracting with Owner.
5. Owner and all public schools are required to review the background check reports, including the federal criminal history record information (CHRI) reports of all prospective employees and independent contractors who will have contact with children. All such background checks must be complete and have been reviewed by Owner prior to Contractor entering Project site.
6. Contractor shall submit all data and forms required by Pennsylvania law regarding background checks, including, without limitation, all information required pursuant to 18 Pa.C.S. Ch.91 (relating to criminal history record information), a report of criminal history record information from the Pennsylvania State Police or a statement from the Pennsylvania State Police that the State Police central repository contains no such information relating to that person.
7. Contractor acknowledges that all or portions of the background check system established by the Commonwealth involve preregistration by employees and on-line services, which will result in registration identification numbers being issued for each employee or prospective employee.

Contractor agrees to complete all steps necessary for the background checks to be completed. To allow Owner to review Contractor's CHRI report, Contractor must provide his or her employees' and prospective employees' (including subcontractors) registration identification numbers, and by virtue of submission of such registration numbers, all such individuals and Contractor give permission for Owner to review the report electronically during the registration process.

8. Owner shall transmit its determination regarding the fitness of Contractor and its employees and subcontractors to work on Project to Contractor. Once hired, a copy of the contracted employees' official CHRI report shall be maintained by the school. An official copy will not be provided to the applicant or to Contractor.
9. It is agreed that Owner has no control over the hiring, retention, screening and assignment of employees, agents or officers of Contractor, and further that Contractor has responsibility for compliance with all required background checks and statutory requirements regarding those background checks.
10. Should any official or employee of Owner be subject to any claim, proceeding, lawsuit, fine, civil penalty or other legal involvement arising from the neglect or failure of Contractor, or its officers, agents or employees to comply with said laws, then Contractor hereby agrees to defend, indemnify and hold harmless all such persons for all losses, including costs of counsel and all expense incident thereto.

Dated: _____ Business Name: _____

By: _____
(Proprietor, Authorized Officer or Partner)

(Witness or Attest)

SECTION 000515 - EMPLOYMENT VERIFICATION ACT

1. Contractor and all subcontractors shall comply with applicable Federal and State rules, regulations, and processes regarding employment eligibility verification. Without limiting the foregoing, Contractor shall submit to Owner or Architect, evidence of compliance with Federal and State employment eligibility verification rules and regulations, including submission of required Federal and State employment eligibility verification forms, at or prior to the time the Contract is executed. No Contract shall be formally awarded or executed unless Contractor has complied with all applicable Federal and State employment eligibility verification rules. Contractor shall ensure all subcontractors comply with Federal and State employment eligibility verification rules and regulations and obtain and submit all required employment eligibility verification forms from subcontractors.
2. Subcontracts between and among Contractor and all subcontractors shall include a requirement that all parties thereto shall comply with applicable Federal and State employment eligibility verification rules and regulations, including a requirement that all parties submit required Federal and State employment eligibility verification forms.
3. Contractor or Subcontractor shall be responsible for any penalties imposed for failure to comply with applicable Federal or State laws regarding employment eligibility verification.

END OF SECTION 000515

SECTION 000520 - AFFIDAVIT ACCEPTING PROVISIONS OF THE WORKMEN'S COMPENSATION ACTS

State of _____

County of _____

_____, being duly sworn according to law, deposes and says that he/she is authorized to execute this affidavit on behalf of the below designated Contractor, that said Contractor is familiar with and has accepted the provisions of the Workmen's Compensation Act of 1915 or the Commonwealth of Pennsylvania with its supplements and amendments, including the amendments set forth in Act 44 of 1993, and that said Contractor has insured its liability thereunder, in accordance with the terms of said Act, with the following insurance company

_____, Policy # _____
(insurance company)

The undersigned further acknowledges that said Contractor is aware of its obligation not to subcontract all or any part of the Work, if awarded, unless each subcontractor has presented proof of Workmen's Compensation Insurance, and that Contractor and all subcontractors must provide proof of Workmen's Compensation Insurance to Owner, which insurance shall be effective for the duration of the Work. In the event that Owner shall receive notice that any such insurance has been canceled or terminated, Owner shall issue a Stop Work Order as required by law.

(Name of Contractor)

By: _____
Signature

Sworn and subscribed to before me this _____ day of _____, 20_____.

Notary Public

My Commissioner Expires: _____

END OF SECTION 000520

 AIA[®] Document A310[™] – 2010**Bid Bond****CONTRACTOR:***(Name, legal status and address)***SURETY:***(Name, legal status and principal place of business)***OWNER:***(Name, legal status and address)***BOND AMOUNT: \$****PROJECT:***(Name, location or address, and Project number, if any)***SAMPLE****ADDITIONS AND DELETIONS:**

The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

Init.

AIA Document A310[™] – 2010. Copyright © 1963, 1970 and 2010 by The American Institute of Architects. All rights reserved. WARNING: This AIA[®] Document is protected by U.S. Copyright Law and International Treaties. Unauthorized reproduction or distribution of this AIA[®] Document, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under the law. This document was produced by AIA software at 11:52:40 on 11/01/2010 under Order No.4583414403_1 which expires on 05/25/2011, and is not for resale.

User Notes:

(1232023883)

Signed and sealed this day of ,

(Principal)

(Seal)

(Witness)

(Title)

(Surety)

(Seal)

(Witness)

(Title)

Init.

AIA Document A310™ – 2010. Copyright © 1963, 1970 and 2010 by The American Institute of Architects. All rights reserved. WARNING: This AIA® Document is protected by U.S. Copyright Law and International Treaties. Unauthorized reproduction or distribution of this AIA® Document, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under the law. This document was produced by AIA software at 11:52:40 on 11/01/2010 under Order No.4583414403_1 which expires on 05/25/2011, and is not for resale.

User Notes:

(1232023883)

PERFORMANCE BOND

Bond No.: _____ Amount: \$ _____

_____, as principal (the "Contractor"), and

_____, as surety (the "Surety"), are firmly bound to

THE SOLANCO SCHOOL DISTRICT

as obligee (hereinafter called the "Owner"), in the sum of _____ Dollars (\$ _____), for the payment of which we bind ourselves, our heirs, executors, legal representatives, successors and assigns, jointly and severally, by this Bond.

Background. The Contractor submitted to the Owner a bid (the "Bid") to perform certain _____ Work for the Owner in connection with a project known as Pre-Engineered Metal Building, such Work to be performed pursuant to plans, specifications and other related contract documents that are incorporated into the Bid by reference. The Bid and other contract documents shall be deemed a part hereof as fully as if set out herein, and shall together be referred to as the "Contract Documents." The Owner is a "contracting body" under provisions of Act No. 385 of the General Assembly of the Commonwealth of Pennsylvania, approved by the Governor on December 20, 1967, known and cited as the "Public Works Contractors' Bond Law of 1967" (the "Act"). Under the Contract Documents, it is provided that if the Contractor shall furnish this Bond to the Owner, and if the Owner shall make an award to the Contractor in accordance with the Bid, then the Contractor and the Owner shall enter into an agreement with respect to performance of such work (the "Agreement"), the form of which Agreement is set forth in the Contract Documents. It is a condition of the Contract Documents that this Bond shall be furnished by the Contractor to the Owner.

NOW, THEREFORE, intending to be legally bound, the Contractor and Surety agree as follows:

1. The Contractor and the Surety, jointly and severally, bind themselves for performance of the obligations of the Contractor under the Agreement and other Contract Documents, and to all of the terms of this Performance Bond. The Contractor and Surety understand that time is of the essence in performing their respective obligations under the Contract Documents and this Bond.
2. The Contractor and Surety will be relieved of their obligations under this Bond if and when the Contractor shall perform all of its obligations under the Agreement and other Contract Documents in the manner provided therein, including the making of any payments due to the Owner and its employees, directors or agents, and the Contractor and the Surety shall perform all of their obligations under this Bond. This Bond shall remain in force and effect until all of the foregoing conditions are fulfilled.

3. If the Owner terminates its Agreement with the Contractor for cause pursuant to the Contract Documents or if the Contractor has abandoned its work in violation of the Contract Documents, the Surety will have the following rights and obligations:
 - a. As Option 1, the Surety shall fulfill the performance of all obligations of the Contractor under the Contract Documents and this Bond. Pursuant to Option 1, any replacement contractor retained by the Surety to fulfill the performance of the obligations of the Contractor must be qualified as a responsible contractor under Pennsylvania law. The Surety shall provide the Owner, upon request, information on the pertinent qualifications of any proposed replacement contractor. The Owner will pay the unpaid contract price to the Surety as work progresses, under the payment terms of the Contract Documents.
 - b. As Option 2, the Surety may request to enter a written agreement with the Owner, pursuant to which the Owner shall complete all unfulfilled work of the Contractor pursuant to the Contract Documents, with reimbursement from Surety to Owner if the cost of finishing the work, together with all other expenses for which the Surety is liable, exceeds the unpaid balance to the Contractor under the Contract Documents. If the Surety wishes to make a request to the Owner pursuant to Option 2, it must do so within 30 days of receipt of written notice by the Owner that the Agreement with the Contractor has been terminated or that the Contractor has abandoned its work under the Contract Documents. The Owner shall be under no obligation to accept a request by the Surety to utilize Option 2, and if such a request is not timely made or is denied, the Surety shall proceed pursuant to Option 1.
4. Without limiting the obligations otherwise stated in this Bond, the Surety shall be liable under this Bond to pay the Owner the following to the extent the Contractor does not make such payment to the Owner: (a) any money the Contractor is obligated to pay the Owner under the Contract Documents, including any liquidated damages; and (b) any cost, expense, liability or damage incurred by the Owner (including any fees or costs of attorneys, architects, engineers, construction managers or other consultants) arising from (i) any default, failure or termination of the Contractor, (ii) the Owner's enforcement of Contractor or Surety obligations under this Bond, or (iii) any delay in performance of the Contractor's scope of Work caused by the Contractor or Surety that violates a project schedule approved pursuant to the Contract Documents, without regard to whether such delay occurs before or after commencement of the Surety's obligations pursuant to Paragraph 3 of this Performance Bond.
5. Amounts due and not paid to Owner when due under this Bond shall bear interest from the date the payment is due at the legal rate prevailing in Pennsylvania.
6. This Bond shall be deemed amended automatically and immediately, without formal and separate amendments hereto, upon amendment to the Contract Documents not increasing the contract price more than twenty percent (20%), so as to bind the Contractor and the Surety to the performance of the Contract Documents as so amended, and so as to increase the Bond amount by the increased contract price amount. The term "amendment," wherever used in this Bond and whether referring to this Bond, the Contract Documents, or the Agreement shall include any alteration, addition, extension or modification of any character whatsoever.

7. The Contractor and the Surety agree that none of the following will in any way reduce the Surety's obligations under this Bond, and the Surety waives notice of any of the following: (1) any change, alteration or addition to the terms of the Contract Documents or to the work to be performed thereunder; (2) any extension of time; (3) any act of the forbearance of either the Contractor or the Owner toward the other; (4) any acceleration of payments to the Contractor resulting in payments to the Contractor of more than the amount to which the Contractor is entitled under the Contract Documents or in advance of the time required under the Contract Documents.
8. No settlement between the Owner and the Contractor shall abridge the right of any other beneficiary hereunder having a claim not yet asserted or satisfied.
9. Owner's acceptance of the Contractor's work under the Contract Documents or approval of final payment to the Contractor shall not terminate the performance obligations of Contractor and Surety under the Contract Documents and this Bond, and shall not waive any later claim for nonperformance.
10. Owner may at any time, but is not obligated to, notify Surety of Owner's concerns about Contractor performance, and send to Surety copies of any communication to Contractor.
11. This Bond shall be interpreted in accordance with the laws (including the Common Laws) of the Commonwealth of Pennsylvania. Exclusive jurisdiction and venue for any litigation concerning this Bond shall exist in the Court of Common Pleas in the county in which the project is located. The Contractor and the Surety waive a jury trial in any such litigation.
12. This Bond is executed and delivered under the subject to the Act.

IN WITNESS WHEREOF, the Contractor and the Surety cause this Bond to be signed, sealed and delivered this _____ day of _____, 20_____.

(Individual Contractor)

WITNESS:

_____(SEAL)

Signature of Individual
Trading and Doing Business As

(Partnership Contractor)

WITNESS:

Name of Partnership

By: _____ (SEAL)
Partner

By: _____ (SEAL)
Partner

By: _____ (SEAL)
Partner

(Corporation Contractor)

ATTEST:

(Assistant) Secretary

(CORPORATE SEAL)

or (If Appropriate)

Name of Corporation

By: _____
(Vice) President

WITNESS:

Name of Corporation

*By: _____
Authorized Representative

*Attach appropriate proof, dated as of the same date as the Bond, evidencing authority to execute in behalf of the corporation.

(Corporation Surety)

Name of Corporation

WITNESS:

** _____
Attorney-in-Fact

**Attach an appropriate power of attorney, dated as of the same date as the Bond, evidencing the authority of the attorney-in-fact to act in behalf of the corporation.

PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS, that we, _____
_____, (hereinafter called the "Principal") and _____
_____, a surety company legally authorized to do business in the Commonwealth of Pennsylvania (hereinafter called the "Surety"), are held and firmly bound unto Solanco School District (hereinafter called the "Obligee"), for the use and benefit of claimants (as hereinafter defined), in the full and just sum of _____ Dollars (\$ _____), lawful money of the United States of America, for the payment of which the Principal and the Surety bind themselves and their respective successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has entered or will enter into an agreement dated _____, 20____ with Obligee (the "Contract") relating to _____, a copy of which Contract is by reference made a part of this Bond; and

WHEREAS, under the Contract the Principal has agreed to post this Bond to the Obligee;

NOW, THEREFORE, the terms and conditions of this Bond are and shall be that if Principal (and Principal's subcontractors and sub-subcontractors) shall promptly make payment to all for all labor and material used or reasonably required for use in the performance of the Contract, then this obligation shall be void; otherwise it shall remain in full force and effect, subject, however, to the following conditions:

1. This Bond is given, shall be interpreted and shall be enforceable in accordance with the laws of the Commonwealth of Pennsylvania. The Principal and the Surety agree that exclusive jurisdiction and venue for any litigation concerning this Bond and the transactions contemplated shall exist in the Lancaster County, Pennsylvania, Court of Common Pleas. The Principal and the Surety consent to such jurisdiction and venue and agree that all service of process, including any instrument to institute suit, shall be effective if served in accordance with Pennsylvania law.
2. The Surety hereby waives notice of and consents to (a) all alterations or amendments to the Contract and (b) all extensions of time for performance of the Contract or other forbearance; and the Surety agrees that its obligations under this Bond shall not thereby be released or affected in any manner.
3. The Surety shall not be liable to the Obligee in the aggregate in excess of the sum above stated.

SIGNED and SEALED this _____ day of _____, 20_____.

(Principal)

Attest: _____ By: _____
Name, Title:

(Surety)

Attest: _____ By: _____

(SEAL)

Attorney-in-Fact

(Attach Power of Attorney and Authorizing
Resolution)

AIA® Document A201™ – 2017

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 |
| 12 | UNCOVERING AND CORRECTION OF WORK |
| 13 | MISCELLANEOUS PROVISIONS |
| 14 | TERMINATION OR SUSPENSION OF THE CONTRACT |
| 15 | CLAIMS AND DISPUTES |

ADDITIONS AND DELETIONS:

The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

For guidance in modifying this document to include supplementary conditions, see AIA Document A503™, Guide for Supplementary Conditions.

Init.

AIA Document A201™ – 2017. Copyright © 1911, 1915, 1918, 1925, 1937, 1951, 1958, 1961, 1963, 1966, 1970, 1976, 1987, 1997, 2007 and 2017 by The American Institute of Architects. All rights reserved. WARNING: This AIA® Document is protected by U.S. Copyright Law and International Treaties. Unauthorized reproduction or distribution of this AIA® Document, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under the law. This document was produced by AIA software at 13:51:32 ET on 12/13/2019 under Order No. 1991093673 which expires on 04/19/2020, and is not for resale.

User Notes:

(1179670640)

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, 9.7, 9.10

Approvals

2.1.1, 2.3.1, 2.5, 3.1.3, 3.10.2, 3.12.8, 3.12.9,

3.12.10.1, 4.2.7, 9.3.2, 13.4.1

Arbitration

8.3.1, 15.3.2, **15.4**

ARCHITECT

4

Architect, Definition of

4.1.1

Architect, Extent of Authority

2.5, 3.12.7, 4.1.2, 4.2, 5.2, 6.3, 7.1.2, 7.3.4, 7.4, 9.2,

9.3.1, 9.4, 9.5, 9.6.3, 9.8, 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

2.1.1, 3.12.4, 3.12.8, 3.12.10, 4.1.2, 4.2.1, 4.2.2, 4.2.3,

4.2.6, 4.2.7, 4.2.10, 4.2.12, 4.2.13, 5.2.1, 7.4, 9.4.2,

9.5.4, 9.6.4, 15.1.4, 15.2

Architect's Additional Services and Expenses

2.5, 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, 9.10.1, 13.4

Architect's Instructions

3.2.4, 3.3.1, 4.2.6, 4.2.7, 13.4.2

Architect's Interpretations

4.2.11, 4.2.12

Architect's Project Representative

4.2.10

Architect's Relationship with Contractor

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,

3.5, 3.7.4, 3.7.5, 3.9.2, 3.9.3, 3.10, 3.11, 3.12, 3.16,

3.18, 4.1.2, 4.2, 5.2, 6.2.2, 7, 8.3.1, 9.2, 9.3, 9.4, 9.5,

9.7, 9.8, 9.9, 10.2.6, 10.3, 11.3, 12, 13.3.2, 13.4, 15.2

Architect's Relationship with Subcontractors

1.1.2, 4.2.3, 4.2.4, 4.2.6, 9.6.3, 9.6.4, 11.3

Architect's Representations

9.4.2, 9.5.1, 9.10.1

Architect's Site Visits

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

Asbestos

10.3.1

Attorneys' Fees

3.18.1, 9.6.8, 9.10.2, 10.3.3

Award of Separate Contracts

6.1.1, 6.1.2

Award of Subcontracts and Other Contracts for Portions of the Work

5.2

Basic Definitions

1.1

Bidding Requirements

1.1.1

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

1.3

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

Certificates of Insurance
9.10.2

Change Orders

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, 9.3.1.1, 9.10.3, 10.3.2, 11.2, 11.5, 12.1.2

Change Orders, Definition of
7.2.1

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, 11.5

Claims, Definition of
15.1.1

Claims, Notice of
1.6.2, 15.1.3

CLAIMS AND DISPUTES

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
15.4.1

Claims for Additional Cost

3.2.4, 3.3.1, 3.7.4, 7.3.9, 9.5.2, 10.2.5, 10.3.2, **15.1.5**

Claims for Additional Time

3.2.4, 3.3.1, 3.7.4, 6.1.1, 8.3.2, 9.5.2, 10.3.2, **15.1.6**

Concealed or Unknown Conditions, Claims for
3.7.4

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, 11.3.2, 14.2.4, 15.1.7

Claims Subject to Arbitration
15.4.1

Cleaning Up

3.15, **6.3**

Commencement of the Work, Conditions Relating to
2.2.1, 3.2.2, 3.4.1, 3.7.1, 3.10.1, 3.12.6, 5.2.1, 5.2.3, 6.2.2, 8.1.2, 8.2.2, 8.3.1, 11.1, 11.2, **15.1.5**

Commencement of the Work, Definition of
8.1.2

Communications

3.9.1, **4.2.4**

Completion, Conditions Relating to

3.4.1, 3.11, 3.15, 4.2.2, 4.2.9, 8.2, 9.4.2, 9.8, 9.9.1, 9.10, 12.2, 14.1.2, 15.1.2

COMPLETION, PAYMENTS AND **9**

Completion, Substantial

3.10.1, 4.2.9, 8.1.1, 8.1.3, 8.2.3, 9.4.2, 9.8, 9.9.1, 9.10.3, 12.2, 15.1.2

Compliance with Laws

2.3.2, 3.2.3, 3.6, 3.7, 3.12.10, 3.13, 9.6.4, 10.2.2, 13.1, 13.3, 13.4.1, 13.4.2, 13.5, 14.1.1, 14.2.1.3, 15.2.8, 15.4.2, 15.4.3

Concealed or Unknown Conditions

3.7.4, 4.2.8, 8.3.1, 10.3

Conditions of the Contract

1.1.1, 6.1.1, 6.1.4

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, 15.4.4.2

Consolidation or Joinder

15.4.4

CONSTRUCTION BY OWNER OR BY SEPARATE CONTRACTORS

1.1.4, **6**

Construction Change Directive, Definition of
7.3.1

Construction Change Directives

1.1.1, 3.4.2, 3.11, 3.12.8, 4.2.8, 7.1.1, 7.1.2, 7.1.3, **7.3**, 9.3.1.1

Construction Schedules, Contractor's

3.10, 3.11, 3.12.1, 3.12.2, 6.1.3, 15.1.6.2

Contingent Assignment of Subcontracts
5.4, 14.2.2.2

Continuing Contract Performance
15.1.4

Contract, Definition of

1.1.2

CONTRACT, TERMINATION OR SUSPENSION OF THE

5.4.1.1, 5.4.2, 11.5, **14**

Contract Administration

3.1.3, 4, 9.4, 9.5

Contract Award and Execution, Conditions Relating to

3.7.1, 3.10, 5.2, 6.1

Contract Documents, Copies Furnished and Use of
1.5.2, 2.3.6, 5.3

Contract Documents, Definition of
1.1.1

Contract Sum

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**, 9.2, 9.4.2, 9.5.1.4, 9.6.7, 9.7, 10.3.2, 11.5, 12.1.2, 12.3, 14.2.4, 14.3.2, 15.1.4.2, **15.1.5**, **15.2.5**

Contract Sum, Definition of
9.1

Contract Time

1.1.4, 2.2.1, 2.2.2, 3.7.4, 3.7.5, 3.10.2, 5.2.3, 6.1.5, 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, 8.2.3, 8.3.1, 9.5.1, 9.7, 10.3.2, 12.1.1, 12.1.2, 14.3.2, 15.1.4.2, 15.1.6.1, 15.2.5

Contract Time, Definition of
8.1.1

CONTRACTOR **3**

Contractor, Definition of

3.1, **6.1.2**

Contractor's Construction and Submittal Schedules

3.10, 3.12.1, 3.12.2, 4.2.3, 6.1.3, 15.1.6.2

Init.

Contractor's Employees
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

Contractor's Liability Insurance

11.1

Contractor's Relationship with Separate Contractors
and Owner's Forces

3.12.5, 3.14.2, 4.2.4, 6, 11.3, 12.2.4

Contractor's Relationship with Subcontractors

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,
9.10.2, 11.2, 11.3, 11.4

Contractor's Relationship with 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,
3.5.1, 3.7.4, 3.10, 3.11, 3.12, 3.16, 3.18, 4.2, 5.2, 6.2.2,
7, 8.3.1, 9.2, 9.3, 9.4, 9.5, 9.7, 9.8, 9.9, 10.2.6, 10.3,
11.3, 12, 13.4, 15.1.3, 15.2.1

Contractor's Representations

3.2.1, 3.2.2, 3.5, 3.12.6, 6.2.2, 8.2.1, 9.3.3, 9.8.2

Contractor's Responsibility for Those Performing the
Work

3.3.2, 3.18, 5.3, 6.1.3, 6.2, 9.5.1, 10.2.8

Contractor's Review of Contract Documents

3.2

Contractor's Right to Stop the Work

2.2.2, 9.7

Contractor's Right to Terminate the Contract

14.1

Contractor's Submittals

3.10, 3.11, 3.12, 4.2.7, 5.2.1, 5.2.3, 9.2, 9.3, 9.8.2,
9.8.3, 9.9.1, 9.10.2, 9.10.3

Contractor's Superintendent

3.9, 10.2.6

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,
7.3.4, 7.3.6, 8.2, 10, 12, 14, 15.1.4

Coordination and Correlation

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

1.5, 2.3.6, 3.11

Copyrights

1.5, 3.17

Correction of Work

2.5, 3.7.3, 9.4.2, 9.8.2, 9.8.3, 9.9.1, 12.1.2, 12.2, 12.3,
15.1.3.1, 15.1.3.2, 15.2.1

Correlation and Intent of the Contract Documents

1.2

Cost, Definition of

7.3.4

Costs

2.5, 3.2.4, 3.7.3, 3.8.2, 3.15.2, 5.4.2, 6.1.1, 6.2.3,
7.3.3.3, 7.3.4, 7.3.8, 7.3.9, 9.10.2, 10.3.2, 10.3.6, 11.2,
12.1.2, 12.2.1, 12.2.4, 13.4, 14

Cutting and Patching

3.14, 6.2.5

Damage to Construction of Owner or Separate
Contractors

3.14.2, 6.2.4, 10.2.1.2, 10.2.5, 10.4, 12.2.4

Damage to the Work

3.14.2, 9.9.1, 10.2.1.2, 10.2.5, 10.4, 12.2.4

Damages, Claims for

3.2.4, 3.18, 6.1.1, 8.3.3, 9.5.1, 9.6.7, 10.3.3, 11.3.2,
11.3, 14.2.4, 15.1.7

Damages for Delay

6.2.3, 8.3.3, 9.5.1.6, 9.7, 10.3.2, 14.3.2

Date of Commencement of the Work, Definition of
8.1.2

Date of Substantial Completion, Definition of

8.1.3

Day, Definition of

8.1.4

Decisions of the Architect

3.7.4, 4.2.6, 4.2.7, 4.2.11, 4.2.12, 4.2.13, 6.3, 7.3.4,
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,
14.2.2, 14.2.4, 15.1, 15.2

Decisions to Withhold Certification

9.4.1, 9.5, 9.7, 14.1.1.3

Defective or Nonconforming Work, Acceptance,
Rejection and Correction of

2.5, 3.5, 4.2.6, 6.2.3, 9.5.1, 9.5.3, 9.6.6, 9.8.2, 9.9.3,
9.10.4, 12.2.1

Definitions

1.1, 2.1.1, 3.1.1, 3.5, 3.12.1, 3.12.2, 3.12.3, 4.1.1, 5.1,
6.1.2, 7.2.1, 7.3.1, 8.1, 9.1, 9.8.1, 15.1.1

Delays and Extensions of Time

3.2, 3.7.4, 5.2.3, 7.2.1, 7.3.1, 7.4, 8.3, 9.5.1, 9.7,
10.3.2, 10.4, 14.3.2, 15.1.6, 15.2.5

Digital Data Use and Transmission

1.7

Disputes

6.3, 7.3.9, 15.1, 15.2

Documents and Samples at the Site

3.11

Drawings, Definition of

1.1.5

Drawings and Specifications, Use and Ownership of
3.11

Effective Date of Insurance

8.2.2

Emergencies

10.4, 14.1.1.2, 15.1.5

Employees, Contractor's

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, 11.3, 14.1, 14.2.1.1

Equipment, Labor, or Materials

1.1.3, 1.1.6, 3.4, 3.5, 3.8.2, 3.8.3, 3.12, 3.13, 3.15.1,
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,
9.10.2, 10.2.1, 10.2.4, 14.2.1.1, 14.2.1.2

Execution and Progress of the Work

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,
3.10.1, 3.12, 3.14, 4.2, 6.2.2, 7.1.3, 7.3.6, 8.2, 9.5.1,
9.9.1, 10.2, 10.3, 12.1, 12.2, 14.2, 14.3.1, 15.1.4

Init.

Extensions of Time
3.2.4, 3.7.4, 5.2.3, 7.2.1, 7.3, 7.4, 9.5.1, 9.7, 10.3.2, 10.4, 14.3, 15.1.6, **15.2.5**

Failure of Payment
9.5.1.3, **9.7**, 9.10.2, 13.5, 14.1.1.3, 14.2.1.2

Faulty Work
(See Defective or Nonconforming Work)

Final Completion and Final Payment
4.2.1, 4.2.9, 9.8.2, **9.10**, 12.3, 14.2.4, 14.4.3

Financial Arrangements, Owner's
2.2.1, 13.2.2, 14.1.1.4

GENERAL PROVISIONS

1

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, 10.2.5, **11**

Insurance, Notice of Cancellation or Expiration
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 Liability
11.2

Insurance, Property
10.2.5, 11.2, 11.4, 11.5

Insurance, Stored Materials
9.3.2

INSURANCE AND BONDS

11

Insurance Companies, Consent to Partial Occupancy
9.9.1

Insured loss, Adjustment and Settlement of
11.5

Intent of the Contract Documents
1.2.1, 4.2.7, 4.2.12, 4.2.13

Interest
13.5

Interpretation
1.1.8, 1.2.3, **1.4**, 4.1.1.1, 5.1, 6.1.2, 15.1.1

Interpretations, Written
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, 3.7, 3.12.10, 3.13, 9.6.4, 9.9.1, 10.2.2, 13.1, 13.3.1, 13.4.2, 13.5, 14, 15.2.8, 15.4

Liens
2.1.2, 9.3.1, 9.3.3, 9.6.8, 9.10.2, 9.10.4, 15.2.8

Limitations, Statutes of
12.2.5, 15.1.2, 15.4.1.1

Limitations of Liability
3.2.2, 3.5, 3.12.10, 3.12.10.1, 3.17, 3.18.1, 4.2.6, 4.2.7, 6.2.2, 9.4.2, 9.6.4, 9.6.7, 9.6.8, 10.2.5, 10.3.3, 11.3, 12.2.5, 13.3.1

Limitations of Time
2.1.2, 2.2, 2.5, 3.2.2, 3.10, 3.11, 3.12.5, 3.15.1, 4.2.7, 5.2, 5.3, 5.4.1, 6.2.4, 7.3, 7.4, 8.2, 9.2, 9.3.1, 9.3.3, 9.4.1, 9.5, 9.6, 9.7, 9.8, 9.9, 9.10, 12.2, 13.4, 14, 15, 15.1.2, 15.1.3, 15.1.5

Materials, Hazardous
10.2.4, **10.3**

Materials, Labor, Equipment and
1.1.3, 1.1.6, 3.4.1, 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, 10.2.1.2, 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

6.2

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

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

2

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, 3.14.2, 4.1.2, 4.2.4, 4.2.9, 5.2.1, 5.2.4, 5.4.1, 6.1, 6.3, 7.2.1, 7.3.1, 8.2.2, 8.3.1, 9.3.2, 9.5.1, 9.6.4, 9.9.1, 9.10.2, 10.3.2, 11.4, 11.5, 12.2.2, 12.3, 13.2.2, 14.3, 14.4, 15.2.7

Owner's Insurance

11.2

Owner's Relationship with Subcontractors

1.1.2, 5.2, 5.3, 5.4, 9.6.4, 9.10.2, 14.2.2

Owner's Right to Carry Out the Work

2.5, 14.2.2

Owner's Right to Clean Up

6.3

Owner's Right to Perform Construction and to Award Separate Contracts

6.1

Owner's Right to Stop the Work

2.4

Owner's Right to Suspend the Work

14.3

Owner's Right to Terminate the Contract

14.2, 14.4

Ownership and Use of Drawings, Specifications and Other Instruments of Service

1.1.1, 1.1.6, 1.1.7, 1.5, 2.3.6, 3.2.2, 3.11, 3.17, 4.2.12, 5.3

Partial Occupancy or Use

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, 9.7, 9.8.5, 9.10.1, 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, 9.7, 9.10.1, 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, 14.2.1.2

Payment, Final

4.2.1, 4.2.9, 9.10, 12.3, 14.2.4, 14.4.3

Payment Bond, Performance Bond and

7.3.4.4, 9.6.7, 9.10.3, 11.1.2

Payments, Progress

9.3, 9.6, 9.8.5, 9.10.3, 14.2.3, 15.1.4

PAYMENTS AND COMPLETION

9

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

PCB

10.3.1

Performance Bond and Payment Bond

7.3.4.4, 9.6.7, 9.10.3, 11.1.2

Permits, Fees, Notices and Compliance with Laws

2.3.1, 3.7, 3.13, 7.3.4.4, 10.2.2

PERSONS AND PROPERTY, PROTECTION OF

10

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

Init.

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
10
 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
 4.2.6, 12.2.1
 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 and
3.11, 3.12, 4.2.7
Samples at the Site, Documents and
3.11
Schedule of Values
 9.2, 9.3.1
 Schedules, Construction
 3.10, 3.12.1, 3.12.2, 6.1.3, 15.1.6.2

Separate Contracts and Contractors
 1.1.4, 3.12.5, 3.14.2, 4.2.4, 4.2.7, 6, 8.3.1, 12.1.2
Separate Contractors, Definition of
6.1.1
Shop Drawings, Definition of
3.12.1
Shop Drawings, Product Data and Samples
 3.11, 3.12, 4.2.7
Site, Use of
3.13, 6.1.1, 6.2.1
 Site 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
5
 Subcontractors, Work by
 1.2.2, 3.3.2, 3.12.1, 3.18, 4.2.3, 5.2.3, 5.3, 5.4, 9.3.1.2,
 9.6.7
Subcontractual Relations
5.3, 5.4, 9.3.1.2, 9.6, 9.10, 10.2.1, 14.1, 14.2.1
 Submittals
 3.10, 3.11, 3.12, 4.2.7, 5.2.1, 5.2.3, 7.3.4, 9.2, 9.3, 9.8,
 9.9.1, 9.10.2, 9.10.3
 Submittal Schedule
 3.10.2, 3.12.5, 4.2.7
Subrogation, Waivers of
6.1.1, 11.3
Substances, Hazardous
10.3
Substantial Completion
 4.2.9, 8.1.1, 8.1.3, 8.2.3, 9.4.2, 9.8, 9.9.1, 9.10.3, 12.2,
 15.1.2
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

9.8.5, 9.10.2, 9.10.3

Surveys

1.1.7, 2.3.4

Suspension by the Owner for Convenience

14.3

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

14.4

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

8

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, 9.7, 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, 3.15.1, 4.2, 5.2, 5.3, 5.4, 6.2.4, 7.3, 7.4, 8.2, 9.2, 9.3.1, 9.3.3, 9.4.1, 9.5, 9.6, 9.7, 9.8, 9.9, 9.10, 12.2, 13.4, 14, 15.1.2, 15.1.3, 15.4

Time Limits on Claims

3.7.4, 10.2.8, 15.1.2, 15.1.3

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 Architect

13.3.2

Waiver of Claims by the Contractor

9.10.5, 13.3.2, **15.1.7**

Waiver of Claims by the Owner

9.9.3, 9.10.3, 9.10.4, 12.2.2.1, 13.3.2, 14.2.4, **15.1.7**

Waiver of Consequential Damages

14.2.4, 15.1.7

Waiver of Liens

9.3, 9.10.2, 9.10.4

Waivers of Subrogation

6.1.1, **11.3**

Warranty

3.5, 4.2.9, 9.3.3, 9.8.4, 9.9.1, 9.10.2, 9.10.4, 12.2.2, 15.1.2

Weather 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

Written Orders

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

Init.

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 Documents do not include the advertisement or invitation to bid, Instructions to Bidders, sample forms, other information furnished by the Owner in anticipation of receiving bids or proposals, the Contractor's bid or proposal, or portions of Addenda 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 integrated agreement between the parties hereto and supersedes prior negotiations, representations, or agreements, 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 or the Architect's 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 Contractor to fulfill the Contractor's obligations. The Work may constitute the whole or a part of the Project.

§ 1.1.4 The Project

The Project is the total construction of which the Work performed under the Contract Documents may be the whole or a 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 dimensions of the Work, generally including plans, elevations, sections, details, schedules, and diagrams.

§ 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

Instruments of Service are representations, in any medium of expression now known or later developed, of the tangible and intangible creative work performed by the Architect and the Architect's consultants under their respective professional services agreements. Instruments of Service may include, without limitation, studies, surveys, models, sketches, drawings, specifications, and other similar materials.

§ 1.1.8 Initial Decision Maker

The Initial Decision Maker is the person identified in the Agreement to render initial decisions on Claims in accordance with Section 15.2. The Initial Decision Maker shall not show partiality to the Owner or Contractor and shall not be liable 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 titles of numbered 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 as "all" and "any" and articles 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, Sub-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 or for additions to 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 if a method for electronic transmission is set forth in the Agreement.

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

§ 1.7 Digital Data Use and Transmission

The parties 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 Modeling and Digital Data Exhibit, to establish the protocols for the development, use, transmission, and exchange of digital 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

G202™–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 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 or 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 information shall include a correct statement of the record legal title to the property on which the Project is located, usually referred 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 Owner shall furnish to the Contractor reasonable evidence that the Owner has made financial arrangements to fulfill the Owner's obligations under the Contract. The Contractor shall have no obligation to commence the Work until the Owner 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 Contractor as 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 may immediately stop the Work and, in that event, shall notify the Owner that the Work has stopped. However, if 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 financial 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 information 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 those required under Section 3.7.1, the Owner shall secure and pay for necessary approvals, easements, assessments and charges required for construction, use or occupancy of permanent structures or for permanent changes in existing facilities.

§ 2.3.2 The Owner shall retain an architect lawfully licensed to practice architecture, or an entity lawfully practicing architecture, 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 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 the 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 Documents as required by Section 12.2 or repeatedly fails to carry out Work in accordance with the Contract Documents, the Owner may issue a written order to the Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated; however, the right of the Owner to stop the Work shall not give rise to a duty on the part of the Owner to exercise this right for the benefit of the Contractor or any other person or entity, except to the extent 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 9.5.1, withhold 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 file 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 in writing a representative who shall have express authority to bind the Contractor with respect to all matters under this Contract. The term "Contractor" means the Contractor or the Contractor's authorized representative.

§ 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 Documents either by activities or duties of the Architect in the Architect's administration of the Contract, or by tests, inspections or approvals required or performed by persons or entities other than the Contractor.

§ 3.2 Review of Contract Documents and Field Conditions by Contractor

§ 3.2.1 Execution of the Contract by the Contractor is a representation that the Contractor has visited the site, become generally familiar with local conditions under which the Work is to be performed, and correlated personal observations with requirements 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, as 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 or 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 for 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 building 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 disturbed 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. If 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 wetlands 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
- .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 Architect may 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 14-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 Architect 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

Init.

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

§ 3.12.1 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.

§ 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 reasonable 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 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 its 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 excavation. The Contractor shall not cut or otherwise alter construction by the Owner or a Separate Contractor except with written consent of the Owner and of the Separate Contractor. Consent shall not be unreasonably withheld. The Contractor shall not unreasonably withhold, 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 Owner 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 but 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 omissions 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 Agreement.

§ 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 Documents and will be an Owner's representative during construction until the date the Architect issues the final Certificate for Payment. The Architect will have authority to act on behalf of the Owner only to the extent provided in the Contract Documents.

§ 4.2.2 The Architect will visit the site at intervals appropriate to the stage of construction, or as otherwise agreed with the Owner, to become generally familiar with the progress and quality of the portion of the Work completed, 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 not be 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 solely 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 omissions of, the Contractor, Subcontractors, or their agents or employees, or any other persons or entities performing portions 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, neither 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, their agents or employees, or other persons or entities performing portions of the Work.

§ 4.2.7 The Architect will review and approve, or take other appropriate action upon, the Contractor's submittals such as Shop 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 information 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

§ 5.2.1 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 or 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 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 Sub-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

- .1 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
- .2 assignment is subject to the prior rights of the surety, if any, obligated under bond relating to the Contract.

Init.

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 Work has 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

§ 6.1.1 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 introduction and storage of their materials and equipment and performance of their activities, and shall connect and coordinate the 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. Failure 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 apparent.

§ 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 or defective 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.

Init.

§ 6.2.5 The Owner and each Separate Contractor shall have the same responsibilities for cutting and patching as are described for the Contractor in Section 3.14.

§ 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 Owner may clean up and the Architect will allocate the cost among those responsible.

ARTICLE 7 CHANGES IN THE WORK

§ 7.1 General

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

§ 7.1.2 A Change Order shall be based upon agreement among the Owner, Contractor, and Architect. A Construction Change Directive requires agreement by the Owner and Architect and may or may not be agreed to by the Contractor. An 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:

- .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 bonds 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.

§ 7.3.7 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.

§ 7.3.8 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 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.

§ 8.3.2 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 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 require, such as copies of requisitions, and releases and waivers of liens from Subcontractors and suppliers, and shall reflect retainage if provided for in the Contract Documents.

§ 9.3.1.1 As provided in Section 7.3.9, such applications may include requests for 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.

Init.

§ 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, unless 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 equipment relating to the Work.

§ 9.4 Certificates for Payment

§ 9.4.1 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 (2) 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 (3) 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 is able 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 issued, 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;
- .6 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 certification 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 each 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 Sum, payments received by the Contractor for Work properly performed by Subcontractors or provided by suppliers shall be held by the Contractor for those Subcontractors or suppliers who performed Work or furnished materials, or both, under 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 punitive 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.

Init.

§ 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 receipt 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 the 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 in writing the responsibilities assigned to each of them for payments, retainage, if any, security, maintenance, heat, utilities, damage to the Work and insurance, and have agreed in writing concerning the period for correction of the Work and commencement of warranties required by the Contract Documents. When the Contractor considers a portion substantially complete, the Contractor shall prepare and submit a list to the Architect as provided under Section 9.8.2. Consent of the Contractor to partial occupancy or use shall not be unreasonably withheld. The stage of the progress of the Work shall be determined by written agreement between the Owner and Contractor or, if no agreement 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 condition 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 ready 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 satisfied, (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 arising out of the Contract, to the extent and in such form as may be designated by the Owner. If a Subcontractor refuses to furnish a release or 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 Owner may be compelled to pay in discharging the lien, claim, security interest, or encumbrance, including all costs and reasonable attorneys' fees.

§ 9.10.3 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 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

Init.

- .1 employees on the Work and other persons who may be affected thereby;
- .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
- .3 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 notifying 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 Subcontractor, 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 10.2.1.2 and 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 polychlorinated 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 laboratory 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 indemnify 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 or 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 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 cured 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 Sub-subcontractors 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 reimburse 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 Sub-subcontractors 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, sub-subcontractors, 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 sub-subcontractors. 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 UNCOVERING 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 Contract 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.

§ 12.1.2 If a portion 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 Sum 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 Contractor's expense.

§ 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 an opportunity to make the correction, the Owner waives the rights to require correction by the Contractor and to make a claim for breach of warranty. If the Contractor fails to correct nonconforming Work within a reasonable time during

that period after receipt of notice from the Owner or Architect, the Owner may correct it in accordance with Section 2.5.

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

§ 12.2.2.3 The one-year period for correction of Work shall not be extended by corrective Work 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 are not in accordance with the requirements of the Contract Documents and are neither corrected by the Contractor nor accepted 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 Documents.

§ 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 enforced, nor to the time within which proceedings may be commenced to establish the Contractor's liability with respect to the Contractor's obligations other than specifically to correct the Work.

§ 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 requiring its removal 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 Law

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

§ 13.2 Successors and Assigns

§ 13.2.1 The Owner and Contractor respectively bind themselves, their partners, successors, assigns, and legal representatives to covenants, agreements, and obligations contained in the Contract Documents. Except as provided in Section 13.2.2, neither party to the Contract shall assign the Contract as a whole without written consent of the other. If either party attempts to make an assignment without such consent, that party shall nevertheless remain legally responsible 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 Documents and by applicable laws, statutes, ordinances, codes, rules, and regulations or lawful orders of public authorities. Unless 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, and shall bear all related costs of tests, inspections, and approvals. The Contractor shall give the Architect timely notice of when and where tests and inspections are to be made so that the Architect may be present for such procedures. The Owner shall bear costs of tests, inspections, or approvals that do not become requirements until after bids are received or negotiations concluded. The Owner shall directly arrange and pay for tests, inspections, or approvals where building codes or applicable laws or regulations so require.

§ 13.4.2 If the Architect, Owner, or public authorities having jurisdiction determine that portions of the Work require 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 for such procedures. Such costs, except as provided in Section 13.4.3, shall be at the Owner's expense.

§ 13.4.3 If procedures for testing, inspection, or approval under Sections 13.4.1 and 13.4.2 reveal failure of the portions 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 Documents, be secured by the Contractor and promptly delivered to the Architect.

§ 13.4.5 If the Architect is to observe tests, inspections, or approvals required by the Contract Documents, the Architect will do so promptly and, where practicable, at the normal place of testing.

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

§ 13.5 Interest

Payments due and unpaid under the Contract Documents shall bear interest from the date payment is due at the rate the parties 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.

ARTICLE 14 TERMINATION OR SUSPENSION OF THE CONTRACT

§ 14.1 Termination by the Contractor

§ 14.1.1 The Contractor may terminate the Contract if the Work is stopped for a period of 30 consecutive days through no act or fault of the Contractor, a Subcontractor, a Sub-subcontractor, their agents or employees, or any other persons or entities performing portions of the Work, for any of the following reasons:

- .1** Issuance of an order of a court or other public authority having jurisdiction that requires all Work to be stopped;
- .2** An act of government, such as a declaration of national emergency, that requires all Work to be stopped;
- .3** Because the Architect has not issued a Certificate for Payment and has not notified the Contractor of the 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
- .4** The Owner has failed to furnish to the Contractor reasonable evidence as required by Section 2.2.

§ 14.1.2 The Contractor may terminate the Contract if, through no act or fault of the Contractor, a Subcontractor, a Sub-subcontractor, 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.

Init.

§ 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 portions of the Work because the Owner has repeatedly failed to fulfill the Owner's obligations under the Contract Documents with respect to matters important to the progress of the Work, the Contractor may, upon seven additional days' notice to the Owner and the Architect, terminate the Contract and recover from the Owner as provided in Section 14.1.3.

§ 14.2 Termination by the Owner for Cause

§ 14.2.1 The Owner may terminate the Contract if the Contractor

- .1 repeatedly refuses or fails to supply enough properly skilled workers or proper materials;
- .2 fails to make payment to Subcontractors or suppliers in accordance with the respective agreements between the Contractor and the Subcontractors or suppliers;
- .3 repeatedly disregards applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of a public authority; or
- .4 otherwise is guilty of substantial breach of a provision of the Contract Documents.

§ 14.2.2 When any of the reasons described in Section 14.2.1 exist, and upon certification by the Architect that sufficient cause exists to justify such action, the Owner may, without prejudice to any other rights or remedies of the Owner and 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;
- .2 Accept assignment of subcontracts pursuant to Section 5.4; and
- .3 Finish the Work by whatever reasonable method the Owner may deem expedient. Upon written request of the Contractor, the Owner shall furnish to the Contractor a detailed accounting of the costs incurred by the Owner in finishing the Work.

§ 14.2.3 When the Owner terminates the Contract for one of the reasons stated in Section 14.2.1, the Contractor shall not 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, shall be certified by the Initial Decision Maker, upon application, and this obligation for payment shall survive termination of the Contract.

§ 14.3 Suspension by the Owner for Convenience

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

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

- .1 that performance is, was, or would have been, so suspended, delayed, or interrupted, by another cause for which the Contractor is responsible; or
- .2 that an equitable adjustment is made or denied under another provision of the Contract.

§ 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

- .1 cease operations as directed by the Owner in the notice;

- .2 take actions necessary, or that the Owner may direct, for the protection and preservation of the Work; and
- .3 except for Work directed to be performed prior to the effective date of termination stated in the notice, 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 Work properly executed; costs incurred by reason of the termination, including costs attributable to termination of Subcontracts; and 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, payment of money, a change in the Contract Time, or other relief with respect to the terms of the Contract. The term "Claim" 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 15.1.1 does not require the Owner to file a Claim in order to impose liquidated damages in accordance with the Contract Documents.

§ 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 or otherwise, 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 occurrence of the event giving rise to such Claim or within 21 days after the claimant first recognizes the condition giving rise to the Claim, whichever is later.

§ 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.

§ 15.1.4 Continuing Contract Performance

§ 15.1.4.1 Pending final resolution of a Claim, except as otherwise agreed in writing or as provided in Section 9.7 and Article 14, the Contractor shall proceed diligently with performance of the Contract and the Owner shall continue to make payments in accordance with the Contract Documents.

§ 15.1.4.2 The Contract Sum and Contract Time shall be adjusted in accordance with the Initial Decision Maker's decision, subject to the right of either party to proceed in accordance with this Article 15. The Architect will issue Certificates 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 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 this Contract. This mutual waiver includes

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

This mutual waiver is applicable, without limitation, to all consequential damages due to either party's termination in 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 Contract Documents.

§ 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. If 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.

§ 15.2.2 The Initial Decision Maker will review Claims and within ten days of the receipt of a Claim take one or more of 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 inappropriate 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 Maker in rendering a decision. The Initial Decision Maker may request the Owner to authorize retention of such persons 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 will be furnished, or (3) advise the Initial Decision Maker that no supporting data will be furnished. Upon receipt of the response or supporting data, if any, the Initial Decision Maker will either reject or approve the Claim in whole or in part.

§ 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, but 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 in 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, except those waived as provided for in Sections 9.10.4, 9.10.5, and 15.1.7, shall be subject to mediation as a condition precedent 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 its 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 stayed 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 nonetheless 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. If 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 decision.

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

§ 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 otherwise, shall be administered by the American Arbitration Association in accordance with its Construction Industry Arbitration Rules in effect 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, but in no event shall it be made after the date when the institution of legal or equitable proceedings based on the Claim would be barred by the applicable statute of limitations. For statute of limitations purposes, receipt of a written demand for 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 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 presence 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.

SECTION 000750 - SUPPLEMENTARY GENERAL CONDITIONS

The following supplements modify, change, delete from or add to the **“General Conditions of the Contract for Construction” AIA Document A201, 2017 Edition**. Where any article of the General Conditions is modified, or any Paragraph, Subparagraph, or clause thereof is modified or deleted by these Supplementary General Conditions, the unaltered provisions of the Article, Paragraph, or Subparagraph shall remain in effect.

The General Conditions of the Contract for Construction may also be supplemented elsewhere in the Contract Documents.

ARTICLE 1 - GENERAL PROVISIONS

Paragraph 1.1 Basic Definitions

Subparagraph 1.1.1 The Contract Documents

DELETE the first sentence of Subparagraph 1.1.1 in its entirety and, in lieu thereof, substitute the following:

[*Substitute:*] The Contract Documents are enumerated in the Agreement between Owner and Contractor (hereinafter the Agreement) and consist of the Copyright, the Advertisement for Bids, Instructions to Bidders (AIA Document A701), Supplementary Instructions to Bidders, Bid Forms, Contractor’s Qualification Statement (AIA Document A305), Non-Collusion Affidavit of Contractor, Non-Discrimination Affidavit, Standard Form of Agreement Between Owner and Contractor (AIA Document A101), Agreement by Vendor or Independent Contractor to Comply with 111 of the Public School Code, Employment Verification Act, Affidavit Accepting Provisions of any applicable Workman’s Compensation Act, Bid Bond (AIA Document A310), Performance & Payment Bonds , Conditions of the Contract (General, Supplementary and Special), List of Drawings, PA Tax Exempt Entities Disclosure, Prevailing Minimum Wage Pre-determination, Prime Contractor Certification the Drawings, Specifications, all Addenda issued prior to execution of the Contract and all modifications thereto.

DELETE the last sentence of Subparagraph 1.1.1 in its entirety.

Subparagraph 1.1.2 The Contract

ADD the following new Sub-subparagraph:

- 1.1.2.1 The invalidity of any covenant, restriction, condition, limitation or any other part or provision of the Contract Documents shall not impair or affect in any manner the validity, enforceability or effect of the remainder of the Contract Documents.

Subparagraph 1.1.3 The Work

ADD the following to the end of the first sentence:

[*Add:*] “including any Subcontractor’s and Sub-subcontractor’s work and suppliers or any other entity for which Contractor is responsible and whether on or off the site of the Project.”

Subparagraph 1.1.5 The Drawings

ADD the following to the end of the Subparagraph:

[Add:] “and shop drawings.”

ADD the following new Subparagraphs:

- 1.1.9 The term “product” includes materials, systems, and equipment.
- 1.1.10 The term “provide” includes furnishing and installing a product, complete in place, operating, tested and approved.
- 1.1.11 The term “building code” and the term “code” refer to regulations of governmental agencies having jurisdiction.
- 1.1.12 The terms “approved”, “required” and “as directed” refer to and indicate the Work or materials that may be approved, required or directed by Architect acting as the agent of Owner.
- 1.1.13 The term “similar” means in its general sense and not necessarily identical.
- 1.1.14 The terms “shown”, “indicated”, “detailed”, “noted”, “scheduled” and terms of similar import refer to requirements contained in the Contract Documents.

Paragraph 1.2 Correlation and Intent of the Contract Documents

ADD the following new Subparagraphs:

- 1.2.4 Computed dimensions shall take precedence over scale dimensions, and large scale drawings shall take precedence over smaller scale drawings.
- 1.2.5 Anything shown on the Drawings and not mentioned in the Specifications or mentioned in the Specifications and not shown on the Drawings shall have the same effect as if shown or mentioned respectively in both. Any work shown on one Drawing shall be construed to be shown on all Drawings, and Contractor shall coordinate the Work and Drawings to conform to the requirements of the Contract Documents.
- 1.2.6 In the event of a conflict between different provisions in the Contract Documents, the provision calling for the higher quality or greater benefit to Owner shall prevail, unless Owner accepts in writing the provision calling for a lower quality or lesser benefit.
- 1.2.7 If any portion of the Contract Documents shall be in conflict with any other portion, after the application of the rules of interpretation set forth in this Paragraph 1.2, the various documents comprising the Contract Documents shall govern in the order of precedence as herein set forth according to their latest date of execution: (a) Change Orders submitted, processed and approved in accordance with applicable procedure; (b) written amendments to the various Agreements (including but not limited to the Agreement)

entered into or executed by Owner; (c) the various agreements entered into and executed by Owner, including but not limited to the Agreement (as modified by any Addenda thereto); (d) Addenda; (e) Supplementary and Special Conditions; (f) General Conditions; (g) Division 1 Specifications; (h) Instructions to Bidders; (i) Advertisement for Bids; (j) Bid Form; and (k) Drawings and Specifications. In the event of an inconsistency between the Specifications and Drawings, the interpretation as determined by Architect shall prevail; as between large scale drawings and smaller scale drawings, large scale drawings shall take precedence. Specifications having greater detail or specificity take priority over specifications of lesser detail or specificity and detail takes precedence over general drawings.

- 1.2.8 Any component, material or equipment necessary to complete a system but not specifically described or depicted in the Contract Documents, shall be included in the Work as if it were described or shown in the Contract Documents without an adjustment in the Contract Sum or Contract Time.

Paragraph 1.5 Ownership and Use of Drawings, Specifications and Other Instruments of Service

ADD the following new Subparagraphs:

- 1.5.3 All reports, plans, specifications and computer files relating to this project (hereinafter the Instruments of Service) are the property of Crabtree, Rohrbaugh & Associates. Crabtree, Rohrbaugh & Associates retains all common law, statute and other reserved rights including the copyright thereto.
- 1.5.4 Except as provided in Section 000101, Sub-subparagraph 3.1.4.1, or as otherwise agreed upon with Owner, reproduction of the material herein or substantial use without written permission of Crabtree, Rohrbaugh & Associates violates the copyright laws of the United States and will be subject to legal prosecution

Paragraph 1.6 Notice

Subparagraph 1.6.1

DELETE "if a method for electronic transmission is set forth in the Agreement." from the end of the Subparagraph

ADD "Notice by mail shall be effective three (3) days after deposit in the mail. In addition, Notice to Contractor may be in the form of meeting minutes."

ADD new Subparagraph 1.6.3 as follows:

- 1.6.3 With regard to giving Notice, the designated representative shall be as set forth in Paragraphs 8.3 and 8.4 of AIA Document A101 Standard Form of Agreement Between Owner and Contractor.

Paragraph 1.7 Digital Data Use and Transmission

DELETE the last sentence in its entirety, and in lieu thereof, replace it with the following:

[Replace] "Protocols governing the use of Architect's Instruments of Service are defined in Sub-paragraphs 3.12.4.1 through 3.12.4.9 of these Supplementary General Conditions. The stated protocols apply only to the use of .dwf or .dwg format files. A separate Media Agreement, as provided by Architect, must be executed by Contractor when requesting the Revit Model.

Paragraph 1.8 Building Information Models Use and Reliance

DELETE Paragraph 1.8 in its entirety and, in lieu thereof, SUBSTITUTE the following new Paragraph.

- 1.8 A separate Media Agreement stating protocols governing the use of Architect's building information model (Revit Model) must be executed by Contractor when requesting the Revit Model.

ARTICLE 2 OWNER

Paragraph 2.1 General

Subparagraph 2.1.1

CHANGE the first part of the first sentence to identify Owner as follows:

The Solanco School District
121 South Hess Street
Quarryville, PA 17566-1225

REVISE the second sentence from "with respect to all matters requiring Owner's approval or authorization" to "to the extent authorization by Owner's Board of School Directors."

Subparagraph 2.1.2

DELETE Subparagraph 2.1.2 in its entirety.

Paragraph 2.2 Evidence of Owner's Financial Arrangements

DELETE Paragraph 2.2, including all Subparagraphs, in its entirety.

Paragraph 2.3 Information and Services Required of Owner

Subparagraph 2.3.3

CHANGE "shall employ" to "may employ" in the first line.

DELETE "as to whom Contractor has no reasonable objection" from the second line.

Subparagraph 2.3.4

DELETE the last sentence in its entirety, and in lieu thereof, SUBSTITUTE the following new sentence:

[Substitute] "Contractor shall be responsible to verify the accuracy of the site's physical characteristics, legal limitations, and utility locations, and bring to the attention of Owner and Architect any discrepancies discovered that may affect the Work."

Subparagraph 2.3.5

INSERT at the beginning of the first sentence: "Upon written request from Contractor,"

Subparagraph 2.3.6

DELETE Subparagraph 2.3.6 in its entirety and, in lieu thereof, SUBSTITUTE the following new Subparagraph:

2.3.6 The Prime Contractors with whom Owner shall enter into a Contract shall be entitled to receive up to three (3) sets of drawings and specifications without charge.
Paragraph 2.4 Owner's Right to Stop the Work

DELETE the word "repeatedly" from the first sentence.

ADD the following to the end of the Subparagraph:

[Add:] "This right shall be in addition to, and not in restriction of or derogation of, Owner's rights under Article 14 hereof. Owner's right to stop the Work shall not relieve Contractor of its responsibilities and obligations under, or pursuant to the Contract Documents. In the event an order by Owner to stop the Work is determined to be inappropriate, it shall not constitute a breach of Contract by Owner, but rather it shall be a suspension of Work for the convenience of Owner.

Paragraph 2.5 Owner's Right to Carry Out the Work

REVISE the second line of the first sentence from "a ten (10) day period" to a "a seven (7) day period".

DELETE the second sentence in its entirety and, in lieu thereof, SUBSTITUTE the following:

In such case, Owner shall have the right to deduct from payments then or thereafter due Contractor, the cost to Owner of correcting such default or neglect, including Owner's expenses and any fees or costs charged by attorneys, Architect, or Owner's Representative in connection with such corrective action.

ADD the following to the end of the Subparagraph add the following:

[Add:] "Nothing contained herein shall obligate Owner to carry out Work for the benefit of Contractor."

[Add:] "This right shall be in addition to, and not in restriction of or derogation of, Owner's rights under Article 14 hereof. Owner's right to stop the Work shall not relieve Contractor of its responsibilities and obligations under, or pursuant to the Contract Documents.

[Add:] “Owner shall not be required to comply with the seven (7) day notice provision stated above, and shall have the right to immediately correct any deficiencies of Contractor subject to the remaining provisions of this Paragraph 2.5, where providing such Notice would impose risk of substantial disruption to the Project Schedule or to the safety of any person or property.”

ADD new Paragraph 2.6 as follows:

Paragraph 2.6 Owners Representative
Subparagraph 2.6.1

2.6.1 Owner’s Representative during construction is Owner’s designated and authorized representative to stop Work for, including, but not limited to, unsatisfactory field test results, deficient materials, equipment or systems, deficient Work or unsatisfactory installations. The following is a description of the services being provided by Owner’s Representative to Owner and how Owner’s Representative is to interact with Architect and Contractor. Owner’s Representative shall assist Owner in observing performance of the Work of Contractor. Owner’s Representative shall endeavor to provide further protection for Owner against defects and deficiencies in the Work of Contractor; but, furnishing of such services will not make them responsible for or give them control over construction means, methods, techniques, sequences or procedures for safety precautions or programs, or responsibility for Contractor’s failure to perform the Work in accordance with the Contract Documents and in particular the specific limitations set forth in this Agreement are applicable. The duties and responsibilities of Owner’s Representative are limited and described as follows:

- 2.6.1.1 Owner’s Representative is Owner’s agent at the site and will act as directed by, and under the supervision of Owner and will confer with Architect, Owner and Contractor, keeping Owner advised as necessary. Owner’s Representative’s dealings with subcontractors shall only be through or with the full knowledge and approval of Contractor. Owner’s Representative shall generally communicate with Owner with the knowledge and under the direction of Owner.
- 2.6.1.2 Schedules: Review the progress schedule, schedule of shop drawing submittals and schedules of values prepared by Contractor and consult with Architect and Owner concerning acceptability. Monitor Contractor’s prepared Project Schedule and Contractor’s progress and conformance with project completion dates, pursuant to the schedule criteria.
- 2.6.1.3 Conferences and Meetings: Attend meetings with Architect and Contractors, such as Pre-Construction Conferences, Progress Meetings, Job Conferences, and other project-related meetings.
- 2.6.1.4 Liaison: Serve as Owner’s liaison with Contractor and assist in understanding the intent of the Contract Documents; assist Architect and Owner in serving as Owner’s liaison with Contractor when Contractor’s operations affect Owner’s on-site operations.
- 2.6.1.5 Assist in obtaining from Owner additional details or information, when required for proper execution of the Work.
- 2.6.1.6 The Owner’s Representative shall arrange for and oversee the delivery, storage, protections, and security of any Owner-purchased materials, systems, and equipment that are a part of the Project until such items are incorporated into the Project.

- 2.6.1.7 To the extent requested by the Owner, the Contract Documents shall require Trade to provide the Owner's Representative copies of documents submitted to the Architect, and the Owner's Representative shall evaluate and provide comments to the Architect regarding such documents in a timely manner, accommodating the need for the Architect to comply with its response requirements. Documents in question might include, but are not limited to, product data, schedules, shop drawings, substitution requests, RFIs, schedules of values, change orders requests, proposals, claims, payment applications, certifications of substantial completion and final completion, and trade punch lists. Such review and comments by the CA shall not negate or alter the responsibilities of the Architect in addressing such documents. The Owner's Representative shall promptly bring to the Owner's attention in writing any material differences between the Architect and the CA regarding their respective evaluations of contractor submittals.
- 2.6.1.8 The Owner's Representative shall assist the Owner and the Architect is addressing questions that may arise during the Project concerning the interpretation of the Contract Documents but shall not replace the Architect as the Initial Decision-Maker (as defined in the Contract Documents) on such matters.
- 2.6.1.9 The Owner's Representative shall monitor the progress of the Project. The CA shall promptly advise the Owner and the Architect in writing regarding any concern with such progress as compared to the approved Project schedule, including recommended recovery measures, sending a copy to the applicable Trade unless directed otherwise by the Owner. Activities of the CA, the Architect, and the Owner relating to Project schedules and progress shall not negate in any manner the Trades' obligations to meet the Project schedule and deadlines and to otherwise comply with the Contract Documents.
- 2.6.1.10 The Owner's Representative shall monitor the coordination of trades on the Project. The CA shall promptly advise the Owner and the Architect in writing regarding any concern with such coordination of trades, sending a copy to the applicable Trade unless directed otherwise by the Owner. Activities of the CA, the Architect, and the Owner relating to the coordination of trades shall not negate in any manner the obligations of Trades with regard to the coordination of trades as identified in the Project specifications and to otherwise comply with the Contract Documents.
- 2.6.1.11 The Owner's Representative shall participate in all Project meetings, unless otherwise directed by the Owner. Unless the Architect is running the meeting and preparing meeting minutes, the Owner's Representative shall do so.
- 2.6.1.12 Minimize and restrict interactions with Owner's staff and students to interactions required to perform construction management responsibilities and complete the Project.

2.6.2 Shop Drawings and Samples:

- 2.6.2.2 Receive samples which are furnished at the site by Contractor, and notify Architect and Owner of availability of samples for examination.
- 2.6.2.3 Advise Architect, Owner and Contractor of the commencement of any Work requiring a shop drawing or sample or if the submittal has not been approved by Architect and Owner.

2.6.3 Review of Work, Rejection of Defective Work, Inspections and Tests:

- 2.6.3.1 Conduct on-site observation of Work in progress to assist Architect and Owner in determining if the Work is in general, proceeding in accordance with the Contract Documents.
- 2.6.3.2 The Owner's Representative shall accompany visiting inspectors representing public or other agencies having jurisdiction over the Project and promptly report to the Owner and the Architect the results of such inspections.
- 2.6.3.3 Report to Architect and Owner whenever they believe that any Work is unsatisfactory, faulty, or defective or does not conform to the Contract Documents, or has been damaged, or does not meet the requirements of any inspection, test or approval required to be made; and advise Architect and Owner of Work that they believe should be corrected or rejected or should be uncovered for observation or requires special testing, inspection or approval. Owner's Representative shall be officially designated to act on Owner's behalf as its authorized representative to exercise Owner's right to stop and/or suspend work or reject materials, equipment and systems or other non-conforming, deficient, incomplete and unacceptable Work in complete accordance with AIA General Conditions, Article 2.3, provided in the Contract Documents by Architect.
- 2.6.3.4 The Owner's Representative Shall (a) ensure that tests, startups of equipment or systems, and training of operations or maintenance are conducted in the presence of appropriate Owner personnel, (b) confirm that Trades maintain adequate records of such tests, startups, and training, and (c) observe and report to the Architect and the Owner appropriate details relative to such tests, startups, and training.
- 2.6.3.5 The Owner's Representative shall immediately report to the Owner and the Architect any damage occurring to work that has been performed on the Project, as well as any accidents, injuries, theft, or other serious incident arising on the Project.

2.6.4 Interpretation of the Contract Documents: Report to Architect and Owner when clarifications and interpretations of the Contract Documents are needed, and transmit to Contractor, clarifications and interpretations as issued by Architect and Owner.

2.6.5 Modifications: Consider and evaluate Contractor's suggestions for modifications on Drawings or Specifications and report recommendations to Architect and Owner. Transmit to Contractor decisions issued by Architect and Owner.

2.6.6 Records:

- 2.6.6.1 Maintain at the job site, orderly files for correspondence, reports of Job Conferences, Shop Drawings and Samples, reproductions of original Contract Documents including all Work Directive Changes, Addenda, Change Orders, Field Orders, additional drawings issued subsequent to the execution of the Contract, Architect and Owner clarifications and interpretations of the Contract Documents, progress reports, and other Project related documents.
- 2.6.6.2 Record names, addresses and telephone numbers of all Contractors, subcontractors and major suppliers of materials and equipment.

2.6.7 Reports:

- 2.6.7.1 Furnish Architect and Owner periodic reports as required of progress of the Work and of Contractor's compliance with the progress schedule and schedule of shop drawing and sample submittals.
 - 2.6.7.2 Consult with Architect and Owner in advance of scheduled major tests, inspections or start of important phases of the Work.
 - 2.6.7.3 Shall at the end of each work day prepare a daily report, in a form approved by the Owner, summarizing on-site activities, identifying the weather conditions, the number of workers for each Contractor and any site visitors, and noting any significant decisions or issues that were addressed or any unusual events. The CA shall email copies of the daily reports to the Owner and the Architect and shall maintain a chronological hard-copy compilation of all daily reports
 - 2.6.7.4 At the end of each month, or more frequently at the request of the Owner, the CA shall provide a report to the Owner (with a copy to the Architect), addressing in a form and level of detail satisfactory to the Owner the progress and status of the Project and any material issues or concerns.
 - 2.6.7.5 Report immediately to Architect and Owner upon the occurrence of any accident.
- 2.6.8 Payment Requests: Review Applications for Payment with Contractor for compliance with the established procedures for their submission and forward with recommendations to Architect and Owner, noting particularly the relationship of the payments requested to the Schedule of Values, Work completed and materials and equipment delivered at the site but not incorporated into the Work.
- 2.6.9 Certificates, Maintenance, and Operations Manuals: During the course of the Work, verify that certificates, maintenance and operations manuals and other data required to be assembled and furnished by Contractor are applicable to the items actually installed and in accordance with the Contract Documents, and have this material delivered to Owner prior to final payment for the Work.

2.6.10 Completion:

- 2.6.10.1 Before Architect and Owner issue a Certificate of Substantial Completion, submit to Contractor a list of observed items requiring completion or correction.
- 2.6.10.2 Conduct a final inspection in the company of Architect, Owner, and Contractor and prepare a final list of items to be completed or corrected.
- 2.6.10.3 Observe that all items on the final list have been completed or corrected and make recommendations to Architect and Owner concerning acceptance.
- 2.6.10.4 The Owner's Representative shall assist the Architect and the Owner in evaluating whether trade contractors have achieved substantial completion and final completion and identify any steps necessary for substantial completion or final completion that have not been fulfilled by the Trades, including delivery to the Owner by the Trades of all necessary documentation and training. Such assistance by the CA shall not negate or alter any responsibilities of the Architect in addressing substantial completion or final completion activities.
- 2.6.10.5 The Owner's Representative shall assist the Owner in occupancy, equipment startup, and systems operations through the appropriate Contractors and suppliers.

2.6.11 Owner's Representative Limitations of Authority:

- 2.6.11.1 Shall not authorize any deviation from the Contract Documents or substitution of materials or equipment, unless authorized by Architect and Owner.
- 2.6.11.2 Shall not exceed limitations of Architect and Owner's authority as set forth in the Agreement or the Contract Documents.
- 2.6.11.3 Shall not undertake or limit any of the responsibilities of Contractor, Subcontractors or Contractor's superintendent.
- 2.6.11.4 Shall not advise on, issue directions relative to or assume control over any aspect of the means, methods, techniques, sequences, or procedures of construction unless such advice or directions are specifically required by the Contract Documents.
- 2.6.11.5 Shall not advise on, issue directions regarding, or assume control over safety precautions and programs in connection with the Work.
- 2.6.11.6 Shall not accept Shop Drawings or Sample Submittals from anyone other than Contractor.
- 2.6.11.7 Shall not authorize Owner to occupy the Project in whole or in part.
- 2.6.11.8 Shall not participate in specialized field or laboratory tests or inspections conducted by others except as specifically authorized by Architect and Owner.
- 2.6.11.9 Shall not have authority to accept defective or nonconforming work.
- 2.6.11.10 Shall not have authority to stop and/or suspend work, or reject materials, equipment, and systems or other nonconforming, deficient, incomplete, and unacceptable work unless authorized by Architect and Owner.

ARTICLE 3 CONTRACTOR

Paragraph 3.1 General

Subparagraph 3.1.1

ADD the following new sentence to the end of the Subparagraph:

[Add:] "It shall be understood that the term "Contractor", as used throughout the General Conditions, applies to each Contractor entering into a Contract with Owner except where specifically noted otherwise."

Paragraph 3.2 Review of Contract Documents and Field Conditions by Contractor

Subparagraph 3.2.2

DELETE the second sentence in its entirety and, in lieu thereof, SUBSTITUTE the following new sentences:

[Substitute:] "Contractor shall not be liable to Owner or Architect for any costs, fees, or damage resulting from errors, inconsistencies, or omissions in the Contract Documents unless Contractor should have reasonably recognized such error, inconsistency, or omission and failed to report it to Architect. Contractor warrants that Contractor has carefully studied and reviewed the Contract Documents and that Contractor has reported any errors, inconsistencies, or omissions to

Architect. Contractor hereby acknowledges and declares that the Contract Documents are full and complete, and are sufficient to have enabled Contractor to determine the cost of the Work and to fulfill all of Contractor's obligations under the Contract Documents. If Contractor encounters an error, inconsistency, or omission, Contractor shall immediately submit it to Architect for resolution. If Contractor performs any construction activity knowing or having reason to know that it involves an error, inconsistency, or omission, Contractor shall be responsible for such performance and shall bear the costs of correction. Contractor shall be liable to Owner for all costs fees by attorneys or Owner's Representative, and fees or costs for Additional Services of Architect (as defined in the Agreement between Owner and Architect) to the extent that such fees and costs are caused by, or arise from any deficient Work or the negligent acts or omissions of Contractor.

ADD new Sub-subparagraph 3.2.2.1

3.2.2.1 Contractor shall carry out its duty with, and shall exercise reasonable diligence in the performance of the Work contained in the Contract Documents as it pertains to applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, and Contractor shall promptly report to Architect, any nonconformity discovered by, or made known to Contractor as a Request for Information (RFI) submitted to Architect in such form as Architect may require.

Subparagraph 3.2.4

DELETE Subparagraph 3.2.4 in its entirety.

Paragraph 3.3 Supervision and Construction Procedures

Subparagraph 3.3.2

ADD the following to the end of the Subparagraph:

[Add:] "...or claiming by, through or under Contractor and for any damages, losses, costs and expenses resulting from such acts or omissions. If any failure by Contractor to comply with the Contract Documents or to maintain an approved Project Schedule causes any damage or costs to Owner, then Contractor shall indemnify and hold harmless Owner for any such damage or costs. Such damage or cost to Owner shall include any payment by Owner to others, or liability of Owner to others resulting from such failure by Contractor, including but not limited to (1) any payment for liability arising from Change Orders, Claims, arbitration, or litigation, or (2) any payment or liability for fees or costs to Owner's Representative, Architect, consultants, experts and attorneys.

Subparagraph 3.3.3

ADD the following new sentences to the end of the Subparagraph:

[Add:] "In the event Contractor discovers that portions of the Work related to another Prime Contractor's work are not in proper condition to receive subsequent work, Contractor shall notify Architect of such finding. In the event Contractor fails to so notify Architect of such finding or otherwise fails to inspect previous Work in accordance herewith, and proceeds, Contractor shall be responsible for any such costs associated therewith.

ADD the following new Subparagraphs:

- 3.3.4 The General Contractor is designated as the Lead Prime Contractor for the Project. Each Prime Contractor shall coordinate its Work with the Work of the other Prime Contractors. The Lead Prime Contractor is responsible for making all coordination decisions not mutually agreed to by the affected Prime Contractors. Disputes between the Lead Prime Contractor and one or more other Prime Contractors, and disputes between two or more Prime Contractors pertaining to the creation, application, and modification of the Project Schedule; the furnishing of additional resources to meet the Project Schedule; job coordination; and all aspects of the coordination, means, and methods of construction shall be submitted promptly to the Lead Prime Contractor for a final construction decision. The final construction decision of the Lead Prime Contractor must, at all times, be consistent with the content and intent of the Contract Documents. The final construction decision of the Lead Prime Contractor shall be observed, accepted, and fully followed by the Lead Prime Contractor and all Prime Contractors and their subcontractors and Sub-subcontractors on the Project, subject only to the commencement of a proceeding pursuant to the third-party beneficiary claim provisions of Article 15 at the request of the Lead Prime Contractor or other Prime Contractor. The progress of the Work in accordance with the final construction decision of the Lead Prime Contractor shall not be delayed pending any proceeding pursuant to Article 15. The damage remedy in any Article 15 third-party beneficiary claim proceeding or dispute resolution proceeding in favor of the Lead Prime Contractor or other Prime Contractor shall be the exclusive remedy for disputes between Contractors. Prime Contractors, including the Lead Prime Contractor, shall have no right of action against Owner in connection with such disputes. The Lead Prime Contractor and all Prime Contractors acknowledge they may be subject to Article 15, third-party beneficiary claim proceedings or dispute resolution proceedings as stated above, and expressly waive any privity of contract defense with regard to such proceedings.
- 3.3.5 In the event any of the Work is required to be inspected or approved by any governmental authority having jurisdiction, Contractor shall cause such inspection or approval to be scheduled and performed. No inspection performed or failed to be performed shall release Contractor from its obligations to have such Work inspected nor shall it be construed as an approval or acceptance of the Work or any part thereof.
- 3.3.6 Refer to Division 1, Section "Project Coordination" for detailed requirements regarding coordination of multiple prime contracts.

Paragraph 3.4 Labor and Materials
Subparagraph 3.4.1

ADD the following new Sub-subparagraph to Subparagraph 3.4.1:

- 3.4.1.1 Refer to Division 1, Section "Temporary Facilities and Controls", for detailed requirements regarding temporary utilities, services, and facilities.

Subparagraph 3.4.2

DELETE Subparagraph 3.4.2 in its entirety, and in lieu thereof, SUBSTITUTE the following new Subparagraph:

3.4.2 Refer to Division 1, Section "Substitutions", for additional requirements regarding substitutions.

Subparagraph 3.4.3

ADD the following new sentence to the end of the Subparagraph:

[Add:] "Owner encourages but does not require that laborers and mechanics employed on the Project be residents of the County in which the Work is being performed. Contractor shall be licensed in accordance with all applicable requirements of East Drumore Township. Contractor shall remove from Project such employees of the Contractor or of any Subcontractor who are incompetent, careless or unsafe or any such employees Owner requests be removed, with or without reason.

Paragraph 3.5 Warranty

Subparagraph 3.5.1

DELETE "inherent in the quality of the Work" from the second sentence.

DELETE the word "may" from the third sentence and replace it with "will".

ADD the following to the end of the third sentence.

[Add] "unless Owner accepts in writing such nonconforming Work."

ADD the following new sentence to the end of the Subparagraph:

[Add:] "Contractor will protect both new Work and existing conditions during the period of construction which may be susceptible to damage or abuse."

ADD the following new Subparagraphs:

3.5.3 Contractor's warranty shall apply regardless of when defective Work or material is discovered.

3.5.3 At the end of the eleven (11) month period from Substantial Completion, Contractor shall be responsible to schedule a walk-through inspection with Owner and Architect to identify any warranty items to be corrected under such warranty period.

3.5.6 Even after the eleven (11) month walk-through inspection, Contractor shall remain responsible to correct, at no cost to Owner, any defective Work or material discovered thereafter that is not in compliance with the Contract Documents and for any damages arising from such defective Work or material.

Paragraph 3.6 Taxes

ADD the following new Subparagraph 3.6.1

- 3.6.1 Refer to Division 0, Section “Supplementary Instructions to Bidders”, Article 10, regarding tax advantages for political subdivisions.

Paragraph 3.7 Permits, Fees, Notices and Compliance with Laws

Subparagraph 3.7.1

DELETE Subparagraph 3.7.1 in its entirety and, in lieu thereof, SUBSTITUTE the following new Subparagraph:

3.7.1 Separate Prime Contracts

Contractor for General Construction shall secure the general building permit for the Project. Fees for this permit shall be paid directly by Owner. Other permits, licenses, and the like required by local law or authority shall be obtained and secured and paid for by the respective prime contractor for whose Work it applies.

Owner, through Architect, will submit drawings and specifications for approval, to the appropriate public authorities having jurisdiction. Owner will pay all fees for plans review.

Subparagraph 3.7.2

ADD the following sentence to the end of the Subparagraph:

[Add] “Contractor shall comply with all aspects of the Federal Occupational Safety and Health Act of 1970 (OSHA) and all up to date amendments thereto, including specific responsibilities to perform reporting and recording requirements. Contractor is responsible to obtain information regarding its responsibilities under the Act.

Subparagraph 3.7.2.1

ADD new Subparagraph 3.7.2.1 as follows:

- 3.7.2.1 Contractor shall comply with all aspects of Pennsylvania Act 287 of 1994, as amended by Act 187 of 1996 and OSHA §1926.651 requiring, among others, contractors intending to perform excavation or demolition work on a site within a political subdivision, to ascertain the location and type of utility lines and pipes at each site, and to notify the utility company or companies not less than three (3) working days in advance of performing the excavation or demolition. Call Pennsylvania One Call System, Inc., (800) 242-1776 or contact them at www.paonecall.org.

Subparagraph 3.7.3

DELETE “knowing it to be” from the first line of Subparagraph 3.7.3

ADD the following new sentences to the end of Subparagraph 3.7.3:

[Add:] "Owner shall not be responsible for any inspection fees due to reinspection of rejected Work due to faulty or defective workmanship of Contractor, or scheduling error by Contractor. Contractor shall be responsible for all such reinspection fees."

Subparagraph 3.7.4

CHANGE "14 days" to "10 days" in line five.

ADD "if appropriate under Articles 7 and 8 hereof" after the word "both" in the line nine.

Paragraph 3.8 Allowances

DELETE Paragraph 3.8 in its entirety. No cash allowances are permitted. For applicable material and quantity allowances to be included in the Base Bid, refer to Division 1 Section "Unit Prices"

Paragraph 3.9 Superintendent

Subparagraph 3.9.2

DELETE Subparagraph 3.9.2 in its entirety and, in lieu thereof, SUBSTITUTE the following new Subparagraph:

3.9.2 Contractor shall provide Architect and Owner a resume' of its Superintendent within 10 days after signing the Contract. If at any time during the course of the Project, Owner objects to the Superintendent or assistant, Contractor shall submit a substitute to whom Owner has no objection. No increase in the Contract Sum or Contract Time shall be allowed for any such substitution.

DELETE Subparagraph 3.9.3 in its entirety and, in lieu thereof, SUBSTITUTE the following new Subparagraph:

3.9.3 If during the course of the Project, Contractor proposes to replace its Superintendent, written Notice shall be given to Owner and Architect. The written Notice shall include a resume' of the new Superintendent. Upon objection by Owner, Contractor shall not assign the proposed new Superintendent and no increase in the Contract Sum or Contract Time shall be allowed.

Paragraph 3.10 Contractor's Construction and Submittal Schedules

ADD new Sub-subparagraph 3.10.1.1 as follows:

3.10.1.1 Refer to Division 1, Section "Construction Progress Documentation", for further requirements regarding construction schedules.

Paragraph 3.11 Documents and Samples at the Site

DELETE the last sentence of Paragraph 3.11 and, in lieu thereof, SUBSTITUTE the following new sentence:

[*Substitute:*] “These shall be in electronic form or paper copy, available to Architect and Owner, and shall be delivered to Owner, in good condition, upon completion of the Work, and before final payment is made.”

Paragraph 3.12 Shop Drawings, Product Data and Samples
Subparagraph 3.12.4

ADD the following new Sub-sub paragraphs:

- 3.12.4.1 Issuance of Architect’s Instruments of Service via electronic media in either .dwf or .dwg file format, hereinafter referred to as “Media” will be provided at the request of Contractor. This Media is provided without detail and dimensions and is for illustrative purposes only and does not amend, supplement, or replace any Drawing, Contract Document, Specification and/or in any way, the Contract requirements of such. The purpose of this Media is solely for coordination by Contractor and shall not be relied upon for any other purpose. Contractor fully releases Architect, its agents, officers, and employees, and consultants, from any and all liability, including without limitation, damages, consequential damages, costs, and attorney’s fees that Contractor may incur as a result of its reliance on the information contained in the Media.
- 3.12.4.2 In accepting and utilizing the Media provided by Architect, Contractor covenants and agrees that all such Media are Instruments of Service between Architect and the client of the Architect, who shall be deemed the author of the Media, and Architect shall retain all common law, statutory law, and other rights, including copyrights, whether or not such copyright is registered. Contractor acknowledges that the information and designs contained on the Media are provided to Contractor as a convenience and at the request of Contractor. Contractor also acknowledges that there may be undiscovered errors or inconsistencies in the Media that may result from any number of issues, including migrating the data from printed material to the Media or from others adding information to, or changing information in, the Media once transmitted to Contractor. Contractor agrees not to hold Architect responsible for any defects Contractor may discover with the Media or information contained in the Media.
- 3.12.4.3 Contractor agrees not to use the Media, in whole or in part, for any purpose or project other than the Project of this Contract. Contractor agrees to waive all claims against Architect resulting in any way from use of the Media.
- 3.12.4.4 Contractor agrees, to the fullest extent permitted by law, to defend, release, indemnify, and hold Architect harmless from and against any and all claims, damage, loss, liability or cost, including reasonable attorney's fees and costs of defense, arising out of or resulting from any changes made by anyone other than Architect, or from any reuse of the Media, and data contained on the Media without the prior written consent of Architect.
- 3.12.4.5 Contractor recognizes that information contained on the Media may not be 100% compatible with Contractor's computer system; therefore, Contractor agrees that Architect shall not be liable for the completeness or accuracy of any materials provided on the Media arising out of, due to, or resulting from the difference in

computer and software systems, or translations or mistranslation of electronic data, the incompatibility of viewing or operating programs, or the corruption of documents or data as a result of compatibility issues.

- 3.12.4.6 Contractor recognizes that information stored on electronic media including, but not limited to, computer disks may be subject to undetectable alteration and/or uncontrollable deterioration, due to, among other causes, errors in transmission, conversion, media degradation, software error or human error or alteration. Accordingly, the Media is provided for informational purposes only and is not intended as an end-product. Contractor therefore agrees that Architect shall not be liable for the completeness or accuracy of any materials provided on the Media for this or any other reason whatsoever.
- 3.12.4.7 Under no circumstances shall the transfer of Instruments of Service in electronic media, for use by Contractor, be deemed a sale by Architect, and Architect makes no warranties, either expressed or implied, of merchantability and fitness for any particular purpose of the Media, or the information stored or contained thereon. Contractor acknowledges that the Media is provided as a convenience by Architect at Contractor's request, and Contractor assumes all risks in the use of the Media, and the data contained therein for any purpose. Contractor further acknowledges that Architect was not engaged to provide usable electronic data, or a usable system, compilation, Model or program to Contractor or any other party. Contractor agrees that Architect shall not be liable in any manner whatsoever for any subsequent usage of the data provided on the Media.
- 3.12.4.8 Contractor agrees that in the event of a conflict between non-electronic data and data provided on the Media, including but not limited to the Model, the data contained on non-electronic documents prevails over data on the Media. While Architect has made a reasonable effort in accordance with the generally accepted standards of professional skill and care so that the data contained on the Media is accurate, Architect makes no representation or Warranty concerning the accuracy of the data contained on the Media, or any viruses contained in the materials as delivered or any other defect or error or alleged defect or error in the materials as delivered.
- 3.12.4.9 Contractor, by submitting a Bid and requesting the Media from Architect, accepts all terms of use of the Media as stated herein.

The above terms of use apply to the Architectural drawings only. The Engineer of Record, as the author of the engineering drawings, shall be contacted directly for cost information, and the procedures for requesting their electronic media.

ADD new Subparagraph 3.12.11 as follows:

- 3.12.11 Refer to Division 1, Section "Submittals", for further requirements regarding Shop Drawings, Product Data and Samples.

Paragraph 3.13 Use of Site
Subparagraph 3.13.1

ADD new Subparagraph 3.13.1 as follows:

- 3.13.1 Control or Reference Points: Immediately upon occupancy of the Project site for the purpose of commencement of the Work, Contractor shall locate, including but not limited to, all general control or reference points, benchmarks, etc., and take such action as may be necessary to prevent damage or destruction of such points. In the event Contractor fails to do so, Contractor shall be liable for all such costs necessary to re-establish such control or reference points.

Paragraph 3.14 - Cutting and Patching

DELETE Paragraph 3.14, in its entirety, including all Subparagraphs, and in lieu thereof, SUBSTITUTE the following new Paragraph:

- 3.14 Refer to Division 1, Section "Cutting and Patching", for requirements regarding cutting and patching.

Paragraph 3.15 Cleaning Up

Subparagraph 3.15.1

ADD new Subparagraph 3.15.3 as follows:

- 3.15.3 Refer to Division 1, Section "Contract Closeout", for further requirements regarding cleaning up.

Paragraph 3.18 Indemnification

Subparagraph 3.18.1

ADD "of any kind" after the word "expenses" in the first sentence.

DELETE "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)" from the first sentence.

ADD "wrongful or" before the word "negligent" from the first sentence.

ADD the following new Paragraphs as follows:

- 3.19 Contractor shall indemnify Owner for any additional fees, cost or expense (beyond the base fee) charged to Owner by Architect or other project consultant pursuant to its own Agreement with Owner to the extent such additional fee, cost or expense is caused by Contractor's acts or omissions.
- 3.20 Owner may deduct amounts owed by Contractor pursuant to Paragraph 3.18 or 3.19 from payments otherwise due to Contractor, and upon request of Owner shall provide Contractor a copy of the written agreement requiring such additional payment.
- 3.21 Contractor agrees that throughout the duration of the Project, and also thereafter in connection with any dispute with Owner, it shall not, directly or indirectly, by itself or through its officers, directors, employees, attorneys or others, submit requests to Owner pursuant to Pennsylvania's Right-to-Know Law, 65 P.S. Section 67.101 et seq. Contractor

further agrees that if it submits requests in violation of this provision, it shall pay Owner (in addition to any amounts due under the Right-to-Know Law) the burdened labor costs of Owner's employees and any other costs, including attorney's fees, incurred by Owner responding to such requests. Contractor acknowledges that Owner may deduct such amounts owed hereunder from any amounts or payments otherwise due to Contractor.

ARTICLE 4 ARCHITECT

Paragraph 4.1 General

Subparagraph 4.1.2

DELETE the word "Contractor" from the second line.

Paragraph 4.2 Administration of the Contract

Subparagraph 4.2.4

DELETE the first and second sentences in their entirety and, in lieu thereof, SUBSTITUTE the following:

[Substitute:] "Owner and Contractor shall endeavor to communicate with each other through Architect about matters arising out of, or relating to the Contract."

Subparagraph 4.2.5

ADD to the end of the Subparagraph, the following:

[Add:] ", with Certificates for Payment being subject to Owner approval."

Subparagraph 4.2.6

ADD the following to the end of the first sentence.

[Add:] "and shall do so unless Owner accepts such nonconforming Work"

Subparagraph 4.2.9

ADD after "Certificate of Substantial Completion" AND after "a final Certificate for Payment", both in the first sentence, the following:

[Add:] "subject to Owner approval,"

ARTICLE 5 SUBCONTRACTORS

Paragraph 5.2 Award of Subcontracts and Other Contracts for Portions of the Work

Subparagraph 5.2.1

DELETE the first sentence of Subparagraph 5.2.1 and, in lieu thereof, SUBSTITUTE the following new sentence:

[Substitute:] “Within fourteen (14) days after the award of the Contract, Contractor shall notify Owner and Architect, in writing, the names of the persons or entities, including those who are to furnish materials or equipment fabricated to a special design, proposed for each of the principal portions of the Work.

Subparagraph 5.2.3

DELETE the second and third sentences in their entirety and, in lieu thereof, SUBSTITUTE the following:

[Substitute:] “In the event of any such objection, Contractor shall not contract with the proposed person or entity, and there shall be no increase in the Contract Sum or Contract Time.”

ADD new Paragraph 5.5 as follows:

Paragraph 5.5 - Payment to Subcontractors

- 5.5.1 Contractor shall pay each Subcontractor, upon receipt of payment from Owner, an amount equal to the percentage of completion allowed to Contractor on account of such Subcontractor’s Work, less the percentage retained from payments to Contractor; PROVIDED, however, that Contractor shall make no payment to any Subcontractor unless the Subcontractor shall execute a waiver of liens in favor of Owner and Contractor reflecting the amount of each such payment. Contractor shall also require each Subcontractor to make similar payments to Sub-subcontractors. All such payments shall be paid within the time limits required by the Commonwealth Procurement Code, 62 P.A.C.S.A. §§3931 and 3941.
- 5.5.2 If Owner fails to approve an Application for Payment for a cause which Owner and Architect determine is the fault of Contractor and not the fault of a particular Subcontractor, or if Contractor fails to make payment which is properly due to a particular Subcontractor, Owner may pay such Subcontractor directly, less the amount to be retained under its Subcontract. Any amount so paid by Owner shall be repaid to Owner by Contractor. Owner shall have no obligation to pay or to see to the payment of any monies to any Subcontractor. Nothing contained in Paragraph 5.5 shall be deemed to create any contractual relationship between Owner and any Subcontractor or to create any rights in any Subcontractor against Owner. Contractor shall promptly advise Owner of any claim or demand by a Subcontractor claiming that any amount is due to such Subcontractor or claiming any default by Contractor in any of its obligations to such Subcontractor.

ARTICLE 6 CONSTRUCTION BY OWNER OR BY SEPARATE CONTRACTORS

Paragraph 6.1 Owners Right to Perform Construction and to Award Separate Contracts

DELETE Subparagraph 6.1.3 in its entirety and, in lieu thereof, SUBSTITUTE the following new Subparagraph:

6.1.3 It is the sole duty and responsibility of each Prime Contractor to plan, direct, perform, and coordinate their Work as to cause no delay, hindrance, loss, injury, or similar damage to another Prime Contractor or their Subcontractors or suppliers. In the event a Prime Contractor causes any delay, hindrance, loss, injury, or similar damage to another Prime Contractor, the aggrieved Prime Contractor may pursue recovery of money damages against the responsible Prime Contractor pursuant to the third-party beneficiary claim provisions in Article 15. Each Prime Contractor acknowledges it may be subject to claims proceedings and dispute resolution proceedings brought by other Prime Contractors as stated above, and expressly waives any privity of contract defense with regard to such proceedings. There shall be no claim asserted against Owner or Architect, or their respective directors, employees or agents for money damages based on the alleged acts or omissions with respect to coordinating, expediting, or directing the Work. If any Prime Contractor prosecutes a claim against Owner or Architect for money damages or for an alleged failure to coordinate, expedite, or direct the Work, then such Contractor shall indemnify and hold harmless Owner and Architect against any and all costs, losses or expenses, including legal fees, that Owner or Architect incur in responding to any such claim plus 10% interest per annum on all such costs from the date of occurrence of such costs up to the date of payment.

Paragraph 6.2 – Mutual Responsibility
Subparagraph 6.2.3

DELETE the second sentence of Subparagraph 6.2.3 in its entirety and, in lieu thereof, SUBSTITUTE the following new sentence:

[*Substitute:*] "Costs caused by delays, or by improperly timed activities or defective construction shall be borne by the responsible party therefore. Contractor shall indemnify Owner for any costs, damages or payments Owner incurs (including any payments to other contractors, Architect, legal counsel, agents, or consultants) arising from or relating to Work by Contractor that is not in compliance with the Contract Documents. Owner may withhold payments otherwise due to Contractor in the event of such indemnification duty.

ADD the following new sentence to the end of Subparagraph 6.2.4:

[*Add:*] "Contractor agrees to indemnify and hold Owner and Architect harmless for any claims or damages brought by a separate contractor arising out of the actions or omissions of Contractor, its Subcontractors or suppliers in performing their work under the Contract Documents.

ARTICLE 7 CHANGES IN THE WORK

Paragraph 7.1 General
Subparagraph 7.1.2

REVISE the first part of the first sentence of Subparagraph 7.1.2 to read as follows:

[Revise:] "A Change Order shall be based upon agreement among Owner and Contractor; a Construction Change Directive"

Subparagraph 7.1.3

DELETE Subparagraph 7.1.3 in its entirety and, in lieu thereof, SUBSTITUTE the following new Subparagraph:

7.1.3 Before any Change Order is prepared, Contractor shall submit to Architect an itemized breakdown of the cost of the proposed Change in the Work. The term "cost" shall be interpreted to mean and include the actual cost of the following:

1. Labor, including foremen.
2. Materials at cost plus applicable taxes entering permanently into the Work.
3. Rental cost of construction plant and equipment, whether rented from Contractor or others.
4. Power and consumable supplies for the operation of power equipment.
5. Liability insurance and bonds.
6. Social security, old age and unemployment contributions.

When determining the labor costs of Work by Change Order, Contractor shall use the actual wage paid to the personnel performing the Work, and if requested by Owner or Architect, at any time during or after the Project, Contractor shall provide certified payroll records necessary to evidence those labor costs. Using the actual wage paid to the personnel performing the Work, Contractor shall be entitled to fifteen percent (15%) of the total cost of the above for overhead, profit, supervision and miscellaneous expenses if they perform the Work with their own forces, or to the Subcontractor who performs the Work. In the case where the Work is performed by a Subcontractor, Contractor may add five percent (5%) to the Subcontractor's total amount as Contractor's commission. Where Change Orders include both increases and decreases in the Contract Amount, the above fifteen percent (15%) will be allowed on the net increase only.

Paragraph 7.2 Change Orders

Subparagraph 7.2.1

DELETE Subparagraph 7.2.1 in its entirety and, in lieu thereof, SUBSTITUTE the following new Subparagraph:

7.2.1 A Change Order is a written instrument prepared by Architect and signed by Owner, Contractor, and Architect. A Change Order is the only method by which the Contract Sum and/or the Contract Time may be adjusted. A Change Order shall provide for the following: (1) a change in the Work, if any; (2) the amount of the adjustment in the Contract Sum, if any; and (3) the extent of the adjustment in the Contract Time, if any.

ADD the following new Subparagraphs:

- 7.2.2 Contractor is responsible for submitting accurate cost and pricing data to support its proposals for Change Orders and other Contract price adjustments under the Contract Documents. Contractor shall certify in writing that to the best of its knowledge and belief, the cost and pricing data submitted is accurate, complete, current and in accordance with the terms of the Contract Documents with respect to pricing of Change Orders. Contractor shall also certify in writing that it has made reasonable good faith inquiries to appropriate individuals within its organization to confirm that the data submitted is accurate, complete and current. The above-described certification shall be required for all Change Order requests with a positive or negative value greater than \$1,000.00. If it is later determined by audit or by other means that the cost and pricing data submitted is inaccurate, incomplete, not current, or not in compliance with the terms of the Contract Documents regarding the pricing of Change Orders, then an appropriate Contract Sum reduction shall be made.
- 7.2.3 Contractor shall perform the Work of Change Orders only with personnel appropriate for the tasks performed. Should Contractor use overqualified personnel, Contractor shall only be entitled to payment for the Work at the wage rate of the appropriate personnel, plus the applicable multipliers noted in 7.1.3.
- 7.2.4 Any Contractor creating the need for Additional Services by Architect, with respect to a Change Order, shall pay all costs associated with such Additional Services, and Architect shall prepare and present to Owner for approval, a Change Order or Construction Change Directive regarding such costs.

Paragraph 7.3 Construction Change Directives
Subparagraph 7.3.2

ADD new Sub-subparagraph 7.3.2.1 as follows:

- 7.3.2.1 Any Contractor creating the need for Additional Services by Architect, with respect to a Construction Change Directive, shall pay all costs associated with such Additional Services, and Architect shall prepare and present to Owner for approval, a Change Order or Construction Change Directive regarding such costs.

Paragraph 7.4 Minor Changes in the Work

ADD the following to the end of the second sentence:

[Add:] “, and Architect shall provide a copy of such order to Owner.”

ARTICLE 8 TIME

Paragraph 8.1 Definitions

Subparagraph 8.1.3

INSERT after “Architect”, the following:

[Insert:] “and approved by Owner”

Paragraph 8.2 Progress and Completion
Subparagraph 8.2.2

DELETE the word “knowingly” from the first line.

Paragraph 8.3 Delays and Extensions of Time
Subparagraph 8.3.1

DELETE (3) in its entirety and, in lieu thereof, SUBSTITUTE the following:

[*Substitute:*] “(3) by fire or adverse weather conditions documented in accordance with Section 15.1.6.”

DELETE (4) in its entirety and, in lieu thereof, SUBSTITUTE the following:

[*Substitute:*] “(4) by delay authorized by Owner pending a proceeding pursuant to Article 15; or”

ADD the following new sentences to the end of Subparagraph 8.3.1:

[*Add:*] “All claims for extension of time shall be made, in writing, to Architect and Owner no more than seven (7) calendar days after the occurrence of the event causing the delay. If an extension of the Contract Time for Contractor is granted due to neglect, misconduct or failure to comply with the Contract Documents by another Contractor, and such delay causes any Contractor to miss a Milestone in the Project Schedule, then liquidated damages for delay pursuant to Paragraph 8.4, or Owner’s actual damages caused by the delay, shall be applied against Contractor responsible for having caused such extension of the Contract Time. A Contractor causing Project delay shall be liable for, among other things, reimbursing Owner for any additional fees to Architect resulting from such delay.

Subparagraph 8.3.3

DELETE Subparagraph 8.3.3 in its entirety and, in lieu thereof, SUBSTITUTE the following:

8.3.3 Contractor recognizes that delays, acceleration, or hindrances to the Work may occur. No claim or litigation for increased costs, charges, expenses, or damages of any kind shall be filed by Contractor against Owner, Architect or Owner’s Representative (or against any of their respective employees or agents) for any delays, acceleration, hindrances, or sequencing of work due to any cause whatsoever, notwithstanding whether such delays are caused by factors within or outside Contractor’s control. Contractor’s sole remedy for delays, acceleration, hindrances or sequencing of Work (except against a responsible contractor pursuant to subparagraphs 3.3.4 and 6.1.3) shall be an extension of the Contract Time pursuant to this Paragraph 8.3. Should Contractor file any claim or litigation for money damages against Owner, Architect or Owner’s Representative (including their employees or agents) in violation of this provision, such Contractor shall provide indemnification for all fees and costs incurred in the defense against such claim or litigation, including, but not limited to, all fees by attorneys, paralegals, and experts, plus 10% interest per annum on all such costs from the date of occurrence of such costs up to the date of payment.

ADD new Paragraph 8.4 as follows:

Paragraph 8.4 Liquidated Damages for Delays

- 8.4.1 Liquidated Damages shall be in the amount of **\$1,500 per day**, per Prime Contractor.
- 8.4.2 The damages incurred by Owner due to Contractor's failure to complete the Work, (or any phase thereof, designated in the Project Schedule) by the Contract Time or the Specific Dates, including any extensions thereof under the Contract Documents, shall be in the amount set forth in the Contract Documents for each consecutive calendar day beyond each deadline for which Contractor shall fail to complete the Work or designated phase thereof.
- 8.4.3 Contractor agrees that the daily amount of liquidated damages provided in the Contract Documents shall not be considered a penalty, and further agrees not to challenge the lawfulness of such daily amount. The assessment of liquidated damages shall not preclude Owner from additional recovery to which it is entitled under the Contract Documents or by law.
- 8.4.4 If, during the course of Contractor's performance of the Work, Contractor shall fail to complete the Work, or portions thereof, in accordance with Specific Dates or the Contract Time, Owner may retain the estimated amount of liquidated damages for which Contractor shall be liable to Owner under the Contract Documents, from amounts which become payable or are otherwise certified as payable to Contractor under the Contract Documents.
- 8.4.5 In the event that the Work must be conducted beyond the normal working hours specified, or if the Project is not completed within the specified duration, Contractor shall indemnify Owner for any costs, damages or payments incurred by Owner, including payments to Architect, Owner's Representative, or legal counsel.
- 8.4.6 If Contractor files any claim or litigation challenging an assessment of liquidated damages, or the daily or total amount of liquidated damages assessed, and does not prevail completely in such challenge, Contractor shall be liable to Owner for all fees and costs incurred by Owner in defending against the challenge, including, but not limited to, all fees of attorneys, paralegals, experts, Architect and other consultants, and all time incurred by Owner's staff and administrators based on the burdened hourly compensation rates of Owner's employees.

ARTICLE 9 PAYMENTS AND COMPLETION

Paragraph 9.1 Contract Sum

Subparagraph 9.1.2

ADD the following new Sub-subparagraphs:

- 9.1.2.1 Owner reserves the right to accept or reject any and all Unit Prices stipulated on the Bid Form.
- 9.1.2.2 If quantities originally contemplated are materially changed so that application of a Unit Price will cause a substantial inequity to Owner or Contractor, Owner reserves the right to equitably adjust the Unit Price or to require that the work be performed on a time and material basis.

Paragraph 9.2 Schedule of Values

ADD new Subparagraph 9.2.1 as follows:

- 9.2.1 Refer to Division 1 Section, "Applications for Payment" for requirements regarding the Schedule of Values.

ADD new Subparagraph 9.2.2 as follows:

- 9.2.2 The Schedule of Values shall be prepared in such a manner that each major item of Work, and each subcontracted item of Work is shown as a line item on AIA Document G703, Application and Certificate for Payment Continuation Sheet. Each major item of Work shall be further broken down into separate line items for Work done in each area of the building, site and each phase of construction. Each Work item shall be broken down into separate line items for material and labor. Each line item shall include quantities and unit prices in such detail as required by Architect.

Paragraph 9.3 Applications for Payment

Subparagraph 9.3.1

DELETE Subparagraph 9.3.1 in its entirety and, in lieu thereof, SUBSTITUTE the following new Subparagraph:

- 9.3.1 At least ten (10) days before the date established for each progress payment, Contractor shall submit to Architect an itemized Application for Payment for Work completed in accordance with the Contract Documents. Such application shall be notarized and supported by such data substantiating Contractor's right to payment as Owner or Architect may require, such as copies of requisitions.

Contractor shall obtain and post a bond guaranteeing payment for labor and materials provided by subcontractors in an amount, form and a surety acceptable to Owner.

Contractor acknowledges that Owner may file with the Office of the Prothonotary of Lancaster County, the relevant provisions of the Contract containing the total amount of the Contract price and Contractor acknowledges that it is aware of the total Contract price.

Contractor hereby agrees that it will defend, indemnify, and hold harmless, Owner from and against any mechanics' lien or claim filed by any subcontractor by reason of Contractor's failure to pay Subcontractor any amount owed to such Subcontractor. Contractor shall prevent the filing of any mechanics' lien, or should a lien be filed,

Contractor shall undertake any and all action necessary to remove said lien. Any failure of Contractor in any of its obligations in this Subparagraph 9.3.1 shall constitute a material breach of Contract. Furthermore, Contractor shall be obligated to pay Owner all Owner's costs incurred in defending or removing any such mechanics' lien whether filed by Contractor or any subcontractor. This shall include payment of all of Owner's legal fees and costs, whether incurred in removing or challenging any mechanics' lien claim filed by Contractor or any subcontractor, or in enforcing Contractor's obligations hereunder.

Owner shall retain ten percent (10%) of all amounts due Contractor until the Work is fifty percent (50%) completed. When the Work is fifty percent (50%) completed, at the sole discretion of Owner, one-half of the amount retained by Owner may be returned to Contractor, provided Contractor provides written consent of surety to such reduction in retainage to Owner along with its Application for Payment, provided Architect approved the application and reduction of retainage, and further provided that Contractor is making satisfactory progress and there is no specific cause for greater withholding.

If Owner reduces the retainage as stated above, Owner shall then retain five percent (5%) of all amounts due Contractor after the Work is fifty percent (50%) completed. The retained percentage will be paid out with the final Payment or as otherwise provided hereafter. In the event a dispute arises between Owner and Contractor, which dispute is based upon increased costs claimed by Contractor occasioned by damages or other actions of another contractor, additional retainage, in the sum of one and one half times the amount of any possible liability, may be withheld until such time as a final resolution is agreed to by all parties directly or indirectly involved, unless Contractor causing the additional claim furnishes an additional bond satisfactory to Owner to indemnify Owner against the claim.

The full Contract retainage may be reinstated if the manner of completion of the Work and its progress do not remain satisfactory to Owner or Architect, or if Surety withholds its consent or for other good and sufficient reasons.

ADD new Sub-subparagraph 9.3.1.3 as follows:

9.3.1.3 Refer to Division 1 Section "Applications for Payment" for additional requirements regarding Applications for Payment.

Paragraph 9.4 - Certificates for Payment
Subparagraph 9.4.2

DELETE the words "the quality of" from the third line.

CHANGE the words "an evaluation" to "future evaluations" in the fifth line.

DELETE the words "upon Substantial Completion" from the sixth line.

Paragraph 9.5 Decisions to Withhold Certification
Subparagraph 9.5.1

DELETE the first sentence of Subparagraph 9.5.1 and, in lieu thereof, SUBSTITUTE it with the following:

[*Substitute:*] “Architect shall not certify payment and shall withhold a Certificate for Payment in whole or in part to the extent necessary to protect Owner.”

REVISE the following Sub-subparagraphs as follows:

- 9.5.1.2 DELETE the word “reasonable”.
- 9.5.1.4 DELETE the word “reasonable”.
- 9.5.1.6 DELETE the word “reasonable”.
- 9.5.1.7 DELETE the word “repeated”.

ADD the following new Sub-subparagraphs:

- 9.5.1.8 Unsatisfactory prosecution of the Work in accordance with the Contract Documents.
- 9.5.1.9 Failure to comply with any statute, ordinance regulation or other legal requirement.
- 9.5.1.10 Failure to submit progress schedule UPDATES as required by the Contract Documents.
- 9.5.1.11 Failure to submit wage certification as required by the Contract Documents.
- 9.5.1.12 Failure to submit a Schedule of Values that is acceptable to Architect.

Paragraph 9.6 Progress Payments

Subparagraph 9.6.1

REVISE Subparagraph 9.6.1 to read as follows:

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

Subparagraph 9.6.7

DELETE Subparagraph 9.6.7 in its entirety.

Paragraph 9.7 Failure of Payment

DELETE Subparagraph 9.7 in its entirety and, in lieu thereof, SUBSTITUTE it with the following:

- 9.7 If Owner does not pay Contractor within thirty (30) days after the date established in the Contract Documents, the amount certified by Architect and approved by Owner, or awarded by dispute resolution, then Contractor may, upon seven (7) additional days' written Notice to Owner and Architect, stop the Work until payment of the amount owing has been received. The Contract time shall be extended appropriately.

Paragraph 9.8 Substantial Completion

Subparagraph 9.8.1

DELETE Subparagraph 9.8.1 in its entirety and, in lieu thereof, SUBSTITUTE it with the following:

- 9.8.1 Substantial Completion of the Project shall be deemed to occur when Architect determines, and Owner approves, that the Work, or designated phase thereof, is sufficiently complete in accordance with the Contract Documents so Owner can occupy or utilize the Work for its intended use, and in addition, all requirements of the Contract Documents for Substantial Completion have been fulfilled.

Subparagraph 9.8.2

REVISE Subparagraph 9.8.2 to read as follows:

- 9.8.2 When Contractor considers that the Work, or a portion thereof which Owner agrees to accept separately, is substantially complete, Contractor shall prepare and submit to Architect a comprehensive list of items to be completed or corrected within thirty (30) days of the date of Substantial Completion. Failure to include an item on such list does not alter the responsibility of Contractor to complete all Work in accordance with the Contract Documents.

ADD new Sub-subparagraph 9.8.2.1 as follows:

- 9.8.2.1 Definition: Contractor's comprehensive list of items to be completed or corrected shall be referred to as the "Punch List." The Punch List shall be prepared by Contractor in an electronic format acceptable to Architect, (i.e., Bluebeam, PlanGrid, etc.)

Subparagraph 9.8.4

ADD after "that shall" in the first sentence "upon approval by Owner" AND ADD at the end of the Subparagraph "or in the Contract Documents."

Subparagraph 9.8.5

ADD new Sub-subparagraph 9.8.5.1 as follows:

- 9.8.5.1 Owner's retainage upon Substantial Completion shall be the greater of (a) 5% of the Contract Sum adjusted by Change Orders, or (b) the amount necessary to protect Owner's interests, a minimum of 150% of Architect's estimated cost to complete or correct Work at the time of Substantial Completion.

Paragraph 9.10 Final Completion and Final Payment

Subparagraph 9.10.2

ADD after "shall become due until" in the first sentence, "Owner approves such payment and"

ADD new Subsections (7) and (8) to the end of the first sentence:

[Add:] "(7) Final As-Built prints of Project Record Drawings marked by Contractor with record information as set forth in the Contract Documents, and (8) A final sworn statement from

Contractor duly executed and acknowledged showing all Subcontractors to be fully paid and similar final sworn statement.

Subparagraph 9.10.3

DELETE Subparagraph 9.10.3 in its entirety.

Subparagraph 9.10.4

DELETE Subparagraph 9.10.4 in its entirety and, in lieu thereof, SUBSTITUTE the following:

9.10.4 The making of final payment by Owner shall not constitute a waiver or release of any claim by Owner.

ARTICLE 10 PROTECTION OF PERSONS AND PROPERTY

Paragraph 10.1 Safety Precautions and Programs

ADD new Subparagraph 10.1.1 as follows:

10.1.1 Contractor shall prepare and submit an infectious disease action plan defining safety measures to be instituted by Contractor on the Project site. This action plan shall comply with all current CDC recommendations and with all state and federally mandated protocols and requirements (hereinafter "Recommendations and Mandates"), and shall be submitted with the initial paperwork required prior to the issuance of Notice to Proceed, and shall be updated, as necessary, as those Recommendations and Mandates change.

Paragraph 10.2 Safety of Persons and Property

Subparagraph 10.2.1

ADD the word "all" after the word "take" in the first line.

Subparagraph 10.2.4

DELETE Subparagraph 10.2.4 in its entirety and, in lieu thereof, SUBSTITUTE the following:

10.2.4 Contractor shall not use or store hazardous materials or equipment, or consider unusual methods Contractor may believe are necessary, without first obtaining written consent from Owner for each individual consideration. Without the express approval of Owner and all authorities having jurisdiction, the use of explosives is not permitted at any time.

Subparagraph 10.2.5

DELETE "(other than damage or loss insured under property insurance required by the Contract Documents)"

ADD new Subparagraph 10.2.9 as follows:

- 10.2.9 Contractor shall promptly report in writing to Owner and Architect all accidents, other than minor accidents for which no medical treatment is required, arising out of, or in connection with the Work which cause death, personal injury, or property damage, giving full details and statements of any witnesses whether or not Owner has actual knowledge of the accident. In addition, if death or serious personal injury or serious damage are caused, the accident shall be reported immediately by telephone or messenger to Owner and Architect.

ARTICLE 11 INSURANCE AND BONDS

DELETE Article 11 (ALL Paragraphs) in its entirety, and in lieu thereof, ADD the following:

11.1 Contractor's Liability Insurance

- 11.1.1 Contractor shall purchase from and maintain in a company or companies lawfully authorized to do business in the jurisdiction in which the Project is located such insurance as will protect Contractor from claims set forth below which may arise out of or result from Contractor's operations and completed operations under the Contract and for which Contractor may be legally liable, whether such operations be by Contractor or by a Subcontractor or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable:

- 11.1.1.1 Claims under workers' compensation, disability benefit, and other similar employee benefit acts that are applicable to the Work to be performed;
- 11.1.1.2 Claims for damages because of bodily injury, occupational sickness or disease, or death of Contractor's employees;
- 11.1.1.3 Claims for damages because of bodily injury, sickness or disease, or death of any person other than Contractor's employees;
- 11.1.1.4 Claims for damages insured by usual personal injury liability coverage;
- 11.1.1.5 Claims for damages, other than to the Work itself, because of injury to or destruction of tangible property, including loss of use resulting therefrom;
- 11.1.1.6 Claims for damages because of bodily injury, death of a person or property damage arising out of ownership, maintenance or use of a motor vehicle;
- 11.1.1.7 Claims for bodily injury or property damage arising out of completed operations; and
- 11.1.1.8 Claims involving contractual liability insurance applicable to Contractor's obligations under Section 3.18.

AMPLIFY Paragraph 11.1 Contractor's Liability Insurance by ADDING the following:

[Add:] During the term of the Contract, Contractor and each Subcontractor shall, as a minimum, and at their own cost and expense, maintain the following insurances in a company or companies properly licensed in the state where the Project is located, and carrying an A.M. Best rating of no less than A-, and an A.M. Best financial size category of VI or better. By requiring such minimum insurances, Owner shall not be deemed or construed to have assessed the risk that may be applicable to Contractor. Contractor shall assess its own risks with regard to the Project, and if it deems appropriate and/or prudent, shall maintain higher limits and/or broader coverages. Contractor is not relieved of any liability or other obligations assumed or pursuant to the Contract by reason of its failure to obtain or maintain insurance in sufficient amounts, duration, or types:

1. Employer's Liability (Worker's Compensation) Insurance

(a) Statutory:

Amounts and coverage as required by law.

(b) Employer's Liability:

\$1,000,000 each accident.

\$1,000,000 disease, policy limit.

\$1,000,000 disease, each employee.

2. Comprehensive General Liability Insurance including coverage for direct operations, sublet work, demolition and wrecking, elevators and contractor liability with limits not less than stated below:

(a) Bodily Injury Liability including Personal Injuries:

\$1,000,000 each occurrence.

(b) Property Damage Insurance: Shall include explosion, collapse and underground.

\$1,000,000 each occurrence.

\$2,000,000 general aggregate.

\$2,000,000 products & completed operations aggregate

\$1,000,000 personal & advertising injury

(c) Products and completed operations insurance shall be maintained for a minimum period of 2 years after final payment, and Contractor shall continue to provide evidence of such coverage to Owner on an annual basis during the aforementioned period.

(d) Contractual Liability

1. Bodily Injury - \$1,000,000 each occurrence.

2. Property Damage - Included each occurrence and aggregate.

Note: The required aggregate limits are applicable to this Contract and not the total business operation of Contractor.

3. Automobile Liability Insurance including coverage for owned, non-owned and hired vehicles with limits not less than stated below:

- (a) Bodily Injury Liability:
\$1,000,000 each occurrence.
 - (b) Property Damage Liability:
\$1,000,000 each occurrence.
\$2,000,000 aggregate.
4. Umbrella Excess Liability providing additional limits for the Commercial General Liability, Automobile Liability, and Employers' Liability coverages.
- (a) Bodily Injury
\$4,000,000 each occurrence.
\$4,000,000 aggregate.
 - (b) Property Damage
Included each occurrence.
Included aggregate.

Note: As with general liability, the aggregate limits are applicable to this Contract and not the total business operation of Contractor.

- 5. Coverage shall include ISO Endorsement CG2503 (03/97 edition) or its equivalent. The Designated Construction Projects General Aggregate Limit must be maintained for the duration of the Contract, and the limit must be twice the minimum required per occurrence limit.
 - 6. Owner and Architect, and their officers, employees, agents and volunteers shall all be carried as additional insureds using ISO Endorsement CG2010 and CG2037 or substitute endorsements providing equivalent coverage.
 - 7. The Contract carrier shall provide Owner not less than 30 days written notice of cancellation, except notice for non-payment may be ten (10) days.
 - 8. Contractor shall provide to Owner, no later than 30 days prior to expiration, a replacement Certificate for the succeeding 12-month period.
 - 9. There shall be no endorsement or modification limiting the scope of coverage for liability arising from pollution, explosion, collapse, underground property damage, or damage to the Work.
- 11.1.2 The insurance required by Section 11.1.1 shall be written for not less than limits of liability specified in the Contract Documents or required by law, whichever coverage is greater. Coverages, whether written on an occurrence or claims-made basis, shall be maintained without interruption from the date of commencement of the Work until the date of final payment and termination of any coverage required to be maintained after final payment, and, with respect to Contractor's completed operations coverage, until the expiration of the period for correction of Work or for such other period for maintenance of completed operations coverage as specified in the Contract Documents. Where Owner's and Contractor's/Subcontractor's policies each apply, Contractor's/Subcontractor's policies shall be considered primary.

- 11.1.3 Certificates of insurance acceptable to Owner shall be filed with Owner prior to commencement of the Work and thereafter upon renewal or replacement of each required policy of insurance. These certificates and the insurance policies required by this Section 11.1 shall contain a provision that coverages afforded under the policies will not be canceled or allowed to expire until at least 30 days' prior written notice has been given to Owner. An additional certificate evidencing continuation of liability coverage, including coverage for completed operations, shall be submitted with the final Application for Payment as required by Section 9.10.2 and thereafter upon renewal or replacement of such coverage until the expiration of the time required by Section 11.1.2. Information concerning reduction of coverage on account of revised limits or claims paid under the General Aggregate, or both, shall be furnished by Contractor with reasonable promptness.
- 11.1.4 Contractor shall cause the commercial liability coverage required by the Contract Documents to include (1) Owner, Architect and Architect's Consultants as additional insureds for claims caused in whole or in part by Contractor's negligent acts or omissions during Contractor's operations; and (2) Owner as an additional insured for claims caused in whole or in part by Contractor's negligent acts or omissions during Contractor's completed operations.
- 11.2 Owner's Liability Insurance: Owner shall be responsible for purchasing and maintaining Owner's usual liability insurance.
- 11.3 Property Insurance
- 11.3.1 Unless otherwise provided, Owner shall purchase and maintain, in a company or companies lawfully authorized to do business in the jurisdiction in which the Project is located, property insurance written on a builder's risk "all-risk" or equivalent policy form in the amount of the initial Contract Sum, plus value of subsequent Contract Modifications and cost of materials supplied or installed by others, comprising total value for the entire Project at the site on a replacement cost basis without optional deductibles. Such property insurance shall be maintained, unless otherwise provided in the Contract Documents or otherwise agreed in writing by all persons and entities who are beneficiaries of such insurance, until final payment has been made as provided in Section 9.10 or until no person or entity other than Owner has an insurable interest in the property required by this Section 11.3 to be covered, whichever is later. This insurance shall include interests of Owner and Architect, Contractor, Subcontractors and Sub-subcontractors in the Project.
- 11.3.1.1 Property insurance shall be on an "all-risk" or equivalent policy form and shall include, without limitation, insurance against the perils of fire (with extended coverage) and physical loss or damage including, without duplication of coverage, theft, vandalism, malicious mischief, collapse, earthquake, flood, windstorm, falsework, testing and startup, temporary buildings and debris removal including demolition occasioned by enforcement of any applicable legal requirements, and shall cover reasonable compensation for Architect's and Contractor's services and expenses required as a result of such insured loss.

- 11.3.1.2 If Owner does not intend to purchase such property insurance required by the Contract and with all of the coverages in the amount described above, Owner shall so inform Contractor in writing prior to commencement of the Work. Contractor may then effect insurance that will protect the interests of Contractor, Subcontractors and Sub-subcontractors in the Work, and by appropriate Change Order the cost thereof shall be charged to Owner. If Contractor is damaged by the failure or neglect of Owner to purchase or maintain insurance as described above, without so notifying Contractor in writing, then Owner shall bear all reasonable costs properly attributable thereto.
- 11.3.1.3 Contractor or contractors making the claim shall be responsible for paying all costs not covered because of any deductibles required by the insurer or insurers underwriting the builder's risk policy defined in Paragraph 11.3.1. The amount of the deductible for the builder's risk policy is \$5,000, which shall be on a per occurrence basis.
- 11.3.1.4 Owner's builder's risk policy will cover a claim for stored materials, or materials in transit, up to a maximum value of \$250,000. Within 60 days of award of the Contract, Contractor shall be responsible to advise Owner in writing if this amount is insufficient to protect Owner against this potential risk, so that Owner can revise their policy accordingly. If Contractor fails to notify Owner in writing, the amount stated above shall be deemed to be sufficient.
- 11.3.1.5 Partial occupancy or use in accordance with Section 9.9 shall not commence until the insurance company or companies providing property insurance have consented to such partial occupancy or use by endorsement or otherwise. Owner and Contractor shall take reasonable steps to obtain consent of the insurance company or companies and shall, without mutual written consent, take no action with respect to partial occupancy or use that would cause cancellation, lapse or reduction of insurance.
- 11.3.1.6 Owner shall limit the deductible for the builder's risk policy defined in this Paragraph 11.3.1.

11.3.2 Boiler and Machinery Insurance:

Owner shall purchase and maintain boiler and machinery insurance required by the Contract Documents or by law, which shall specifically cover such insured objects during installation and until final acceptance by Owner; this insurance shall include interests of Owner, Contractor, Subcontractors and Sub-subcontractors in the Work, and Owner and Contractor shall be named insureds.

11.3.3 Loss of Use Insurance

Owner, at Owner's option, may purchase and maintain such insurance as will insure Owner against loss of use of Owner's property due to fire or other hazards, however caused.

- 11.3.3.1 Contractor and all subcontractors shall be named as additional insureds on Owner's Loss of Use policy.
- 11.3.4 If Contractor requests in writing that insurance for risks other than those described herein or other special causes of loss be included in the property insurance policy, Owner shall, if possible, include such insurance, and the cost thereof shall be charged to Contractor by appropriate Change Order.
- 11.3.5 If during the Project construction period 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, Owner shall waive all rights in accordance with the terms of Section 11.3.7 for damages caused by fire or other causes of loss covered by this separate property insurance. All separate policies shall provide this waiver of subrogation by endorsement or otherwise.
- 11.3.6 Before an exposure to loss may occur, Owner shall file with Contractor, a copy of each policy that includes insurance coverages required by this Section 11.3. Each policy shall contain all generally applicable conditions, definitions, exclusions and endorsements related to this Project. Each policy shall contain a provision that the policy will not be canceled or allowed to expire, and that its limits will not be reduced, until at least 30 days' prior written notice has been given to Contractor.
- 11.3.7 A loss insured under Owner's property insurance shall be adjusted by Owner and made payable to Owner as fiduciary for the insureds, as their interests may appear, subject to requirements of any applicable mortgagee clause and of Section 11.3.10. Contractor shall pay Subcontractors their just shares of insurance proceeds received by Contractor, and by appropriate agreements, written where legally required for validity, shall require Subcontractors to make payments to their Sub-subcontractors in similar manner.
- 11.3.8 If required in writing by a party in interest, Owner shall, upon occurrence of an insured loss, give bond for proper performance of Owner's duties. The cost of required bonds shall be charged against proceeds received. Owner shall deposit in a separate account proceeds so received, which Owner shall distribute in accordance with such agreement as the parties in interest may reach, or as determined in accordance with the method of binding dispute resolution selected in the Agreement between Owner and Contractor. If after such loss no other special agreement is made and unless Owner terminates the Contract for convenience, replacement of damaged property shall be performed by Contractor after notification of a Change in the Work in accordance with Article 7.
- 11.3.9 Owner shall have power to adjust and settle a loss with insurers unless one of the parties in interest shall object in writing within five days after occurrence of loss to Owner's exercise of this power; if such objection is made, the dispute shall be resolved in the manner selected by Owner and Contractor as the method of binding dispute resolution in the Agreement. If Owner and Contractor have selected arbitration as the method of binding dispute resolution, Owner as fiduciary shall make settlement with insurers or, in

the case of a dispute over distribution of insurance proceeds, in accordance with the directions of the arbitrators.

11.4 Performance Bond and Payment Bond

11.4.1 Contractor shall provide bonds in accordance with the provisions of the Public Works Contracts' Bond Law of 1967, 8 P.S. Section 191 and in so doing shall provide:

- (a) A Performance Bond at one hundred percent (100%) of the Contract amount, conditioned upon the faithful performance of Contractor in accordance with the plans, specifications and conditions of the Contract. Such bond shall be solely for the protection of Owner or assignee as authorized in accordance with the provisions of Paragraph 13.2.1 herein.
- (b) A Payment Bond at one hundred percent (100%) of the Contract amount. Such bond shall be solely for the protection of claimants supplying labor or materials to Contractor or to any of their Subcontractors in the prosecution of the Work provided for in the Contract Documents and shall be conditioned for the prompt payment of all such material furnished or labor supplied or performed in the prosecution of the Work. "Labor or Materials" shall include public utility services and reasonable rentals of equipment, but only for periods when the equipment rented is actually used at the site.
- (c) Each of such bonds required by the Contract Documents shall be executed by one or more surety companies legally authorized to do business in the Commonwealth of Pennsylvania and not otherwise objectionable to Owner. The surety of whom Contractor has purchased bonds shall have an "A-" or better rating, plus a financial rating of VI or better with the A. M. Best's Company (Key Rating Guide – Latest Edition) and listed in the Department of Treasury Circular 570, with a capacity which meets or exceeds the contract amount. The bond shall be payable to Owner or assignee as provided for in Paragraph 13.2.1

Both a Performance Bond and Payment Bond shall be required as specified under Article 7 of the Supplementary Instructions to Bidders.

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

ARTICLE 12 UNCOVERING AND CORRECTION OF WORK

Paragraph 12.2 Correction of Work

Subparagraph 12.2.2 After Substantial Completion

DELETE Subparagraph 12.2.2, including all subparts, in its entirety and, in lieu thereof, SUBSTITUTE the following:

12.2.2 Contractor shall promptly correct any defective Work that fails to conform to the requirements of the Contract Documents even if it is not discovered until after the date

of Substantial Completion. All costs of correcting such defective Work, including but not limited to the costs of testing and inspections, the costs of planning and correcting the Work, the fees and costs of any attorneys, Owner's Representative, Architect or other consultants engaged by Owner, and all other direct or consequential costs or damages incurred by Owner relating to or arising from such defective Work, shall be the responsibility of Contractor."

ARTICLE 13 MISCELLANEOUS PROVISIONS

Paragraph 13.1 Governing Law

DELETE the remainder of the sentence after the word "located".

REPLACE "the Federal Arbitration Act" with "unless the parties mutually agree otherwise, the rules of the American Arbitration Association"

Subparagraph 13.3.2

REPLACE "Owner, Architect or Contractor" with "Owner or Architect"

Paragraph 13.4 Tests and Inspections

Subparagraph 13.4.1

DELETE Subparagraph 13.4.1 in its entirety and, in lieu thereof, SUBSTITUTE the following new Subparagraph:

13.4.1 If the Contract Documents or any laws, statutes, ordinances, building codes, rules, regulations, or orders of any governmental body or public or quasi-public authority having jurisdiction over the Work or the site of the Project require any portion of the Work to be inspected, tested, or approved, Contractor shall give Architect and Owner timely notice thereof so Architect and Owner may observe such inspection, test, or approval.

Subparagraph 13.5 Interest

DELETE Subparagraph 13.5 in its entirety.

ADD new Paragraph 13.6 as follows

Paragraph 13.6 Tax Credits

13.6 The Project, or part or all of the Project or Work, may qualify for tax benefits arising from or related to the energy efficiency, energy efficiency rating, or energy efficiency score assigned to the Project or Work by the relevant taxing authority. These tax benefits include, without limitation, Internal Revenue Code §179.D and other federal, state or local tax benefits, as established by those authorities having jurisdiction over such benefits (hereinafter the "Tax Benefits"). These Tax Benefits may take various forms, including without limitation, accelerated depreciation for commercial, multifamily, and publicly owned facilities. The Tax Benefits may be assignable by Owner to third parties, as

provided for by the statutes, rules, and regulations governing such Tax Benefits. Notwithstanding any other language contained in any of the Contract Documents, no Contractor or Subcontractor shall, under any circumstances, apply for, request, receive, accept or retain any Tax Benefit arising from or related to the Project, Work, or any part of the Project or Work.

ARTICLE 14 TERMINATION OR SUSPENSION OF THE CONTRACT

Paragraph 14.1 Termination by Contractor

DELETE Paragraph 14.1 in its entirety.

Paragraph 14.2 Termination by Owner for Cause

Subparagraph 14.2.1

DELETE Subparagraph 14.2.1 in its entirety and, in lieu thereof, SUBSTITUTE the following:

14.2.1 Owner may terminate the Contract if Contractor:

- .1 shall institute proceedings or consent to proceedings requesting relief or arrangement under the Federal Bankruptcy Code or any similar or applicable federal or state law; or if a petition under any federal or state bankruptcy or insolvency law is filed against Contractor, and such petition is not dismissed within sixty (60) days from the date of said filing; or if Contractor admits in writing, its inability to pay its debts generally as they become due, or if it makes a general assignment for the benefit of its creditors, or if a receiver, liquidator, trustee, or assignee is appointed on account of its bankruptcy or insolvency; or if a receiver of all or any substantial portion of Contractor's properties is appointed.
- .2 abandons the Work; or if it fails, except in cases for which an extension of time is provided, to prosecute promptly and diligently the Work or to supply enough properly skilled workers or proper materials for the Work;
- .3 submits an Application for Payment, sworn statement, affidavit or document of any nature whatsoever which is intentionally falsified;
- .4 fails to make prompt payment to subcontractors or for materials or labor or otherwise breaches their obligations under any subcontract with a subcontractor; or if a materialman's lien or notice of lien is filed against any party of the Work or the site of the Project and not promptly bonded or insured over by Contractor in a manner satisfactory to Owner;
- .5 disregards any laws, statutes, ordinances, rules, regulations, or orders of any governmental body or public or quasi-public authority having jurisdiction of the Work or the site of the Project;
- .6 otherwise violates any provision of the Contract Documents; then Owner, upon the occurrence of the events described in clauses .1 through .5 above, without prejudice to any right or remedy available to Owner under the Contract Documents or at law or in equity may, after giving Contractor seven (7) days written notice, and complying with any notice requirements to a surety under the Performance Bond and Payment Bond, terminate the employment of Contractor and, in accordance with the Uniform Commercial Code, may enforce a Security Agreement by taking

possession of and using all or any part of Contractor's materials, equipment, supplies, and other property of every kind used by Contractor in the performance of the Work in the completion of the Work. If requested by Owner, Contractor shall remove any part or all of its equipment, machinery, and supplies from the site of the Project within seven (7) days from the date of such request, and in the event of Contractor's failure to do so, Owner shall have the right to remove or store such equipment, machinery and supplies at Contractor's expense. In case of such termination, Contractor shall not be entitled to receive any further payment for Work performed by the Contract through the date of termination. Owner's right to terminate Owner-Contractor Agreement pursuant to this Subparagraph 14.2.1 shall be in addition to and not in limitation of any rights or remedies existing hereunder or pursuant hereto or at law or in equity.

Subparagraph 14.2.3

DELETE the following from end of Subparagraph 14.2.3: "until the Work is finished."

Subparagraph 14.2.4

DELETE Subparagraph 14.2.4 in its entirety and, in lieu thereof, SUBSTITUTE the following new Subparagraph 14.2.4:

14.2.4 If the unpaid balance of the Contract Sum exceeds all costs to Owner of completing the Work, then Contractor shall be paid for all Work performed by Contractor to the date of termination. If such costs to Owner of completing the Work exceed such unpaid balance, Contractor shall pay the difference to Owner upon Owner's demand. The costs to Owner of completing the Work shall include, but not be limited to, the cost of any additional architectural, legal, managerial, and administrative services required thereby, any costs incurred in retaining another contractor or other subcontractors, any additional interest or fees which Owner must pay by reason of a delay in completion of the Work, attorneys' fees and expenses and any other damage, costs, and expenses Owner may incur by reason of completing the Work. The amount, if any, to be paid to Contractor shall be certified by Architect upon application, in the manner provided in Paragraph 9.4, and this obligation for payment shall survive the termination of the Contract.

Paragraph 14.3 Suspension by Owner for Convenience

Subparagraph 14.3.1

ADD the following new sentence to the end of Subparagraph 14.3.1:

[Add:] Any suspension by Owner for convenience does not constitute grounds for termination by Contractor under Section 14.1.

Subparagraph 14.4.3

DELETE the remainder of the subparagraph after the words "for Work properly executed."

ADD new Paragraph 14.5 as follows:

Paragraph 14.5 Indemnification

14.5 Contractor and each Subcontractor shall indemnify and hold harmless, Owner, its officers, directors, agents, and employees, Architect and its officers, directors, agents and employees, and each of them, as “indemnitee”, from and against any and all fines, penalties, losses, costs, damages, injuries, expenses, claims, liens, encumbrances, and/or liabilities (individually and collectively referred to herein as “liabilities”) arising out of, or resulting from (a) any claim for any service or goods allegedly infringed, including without limitation any patent, copyright, trademark, service mark, trade secret, or other legally-protected proprietary right; and (b) the Work as described in the Contract Documents, including, but not limited to, any claim of injury (including death) to persons or damage to property, and contamination of, or any adverse impact upon the environment, except to the extent that any such claim is finally found by the court or arbitration entity by which such claims are finally resolved, to have arisen from the willful misconduct of the indemnitee. A finding of “willful misconduct” as against one indemnitee shall not nullify the indemnification provided to any other indemnitee who is not found to have performed any willful misconduct. As used herein, “willful misconduct” shall mean gross negligence or any intentional criminal act. Owner shall notify Contractor of any suit or legal proceeding asserting a claim for liabilities. Contractor and subcontractors shall, at no cost to any indemnitee, defend and/or settle such suit or legal proceeding, or judgment, including any appellate proceeding, asserting a claim for liabilities. Contractor and subcontractors shall pay any costs and legal fees incurred by any indemnitee in connection with any liabilities, whether or not litigation is actually commenced, and shall keep indemnities informed as to the progress of the defense. If requested by an indemnitee, Contractor and subcontractors shall afford indemnities the opportunity to participate in the defense or settlement of any claim. With regard to any claim of infringement as referred to herein, Contractor and Subcontractors shall procure the right to continue using the services or goods, or at the indemnities’ option, replace or modify the services or goods to make them non-infringing services or goods.

ARTICLE 15 CLAIMS AND DISPUTES

Paragraph 15.1 Claims

Subparagraph 15.1.1 Definition

ADD the following new sentence to the end of Subparagraph 15.1.1:

[Add:] All Claims as defined in Paragraph 15.1.1, and any other claim or dispute between and among Contractors, or any Contractor and Owner or Architect, including without limitation those claims set forth in Paragraph 15.3, shall be governed by this Article 15.

Subparagraph 15.1.2 Time Limits on Claims

DELETE the remainder of the first sentence after the word “Agreement” in the third line.

Subparagraph 15.1.3 Notice of Claims

Sub-subparagraph 15.1.3.1

DELETE from the first sentence “, where the condition giving rise to the claim is first discovered prior to expiration of the period of correction of the Work set forth in Section 12.2.2,”

CHANGE “either party” to “Contractor” in the second sentence.

CHANGE “claimant” to “Contractor” in the last sentence.

Sub-subparagraph 15.1.3.2

DELETE Sub-subparagraph 15.1.3.2 in its entirety.

Subparagraph 15.1.6 Claims for Additional Time

ADD the following new Sub-subparagraphs:

15.1.6.3 In planning the Project Schedule within the agreed Contract Time, it shall be assumed that Contractor has anticipated the amount of adverse weather conditions normal to the site of the Work for the season or seasons of the year involved. Only those weather delays attributable to other than normal weather conditions will be considered.

15.1.6.4 The following Standard Baseline of monthly anticipated adverse weather delays is based on National Oceanic and Atmospheric Administration (NOAA) or similar data for the project location and will constitute the baseline for monthly weather time evaluations. “Standard Baseline” is defined as the normal number of calendar days for each month during which construction activity exposed to weather conditions is expected to be prevented and suspended by cause of adverse weather. “Adverse Weather” is defined as the occurrence of one or more of the following conditions within a twenty-four (24) hour day that prevents construction activity exposed to the weather conditions or access to the site:

1. Precipitation (rain, snow, or ice) in excess of 1/10 inch liquid measure.
2. Temperatures that did not rise above that required for the day’s construction activity, if such temperature requirement is specified or accepted as standard industry practice.
3. Sustained wind in excess of 25 mph.

15.1.6.5 Contractor’s Construction Schedule must reflect the following anticipated adverse weather delays in all weather dependent activities.

Standard Baseline

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
14	7	7	8	8	7	4	5	4	4	5	7

15.1.6.6 Upon acknowledgement of the Notice to Proceed and continuing throughout the Contract, Contractor will record in a daily log the occurrence of adverse weather and

resultant impact to normally scheduled Work. Actual adverse weather delay days must prevent Work on critical activities for 50 percent or more of Contractor's scheduled work day in order to constitute an adverse weather delay day. The number of actual adverse weather delay days shall include days impacted by actual adverse weather (even if adverse weather occurred in a previous month), be calculated chronologically from the first to the last day of each month, and be recorded as full days. If the number of actual adverse weather delay days exceeds the number of days anticipated in Sub-subparagraph 15.1.5.5 above, Architect will convert any qualifying delays to calendar days, giving full consideration for equivalent fair weather work days, and issue a no-cost Change Order for additional days, to be executed by Owner, Architect and Contractor. This no-cost Change Order shall be the sole remedy for delays associated with weather.

Subparagraph 15.1.7 Waiver of Claims for Consequential Damages

DELETE Subparagraph 15.1.7, including both Sub-subparagraphs, in its entirety, and in lieu thereof, SUBSTITUTE the following new Subparagraph:

- 15.1.7 Contractor waives Claims against Owner for consequential damages arising out of or relating to this Contract, including but not limited to waiving any claims for damages incurred by Contractor for principal office expenses including the compensation of personnel stationed there, for losses of financing, business and reputation, and for loss of profit.

Subparagraph 15.1.8 Owner as a Contracting Body

ADD new Subparagraph 15.1.8 as follows:

- 15.1.8 Contractor agrees and acknowledges that Owner is a "contracting body" under the Public Works Contractors' Bond Law of 1967 (the "Bond Law"), and the Work on the Project is public construction and not subject to the filing of Mechanics Liens, and further agrees to provide and specify in its subcontracts with subcontractors for their acknowledgment that their sole remedy against Owner exists only under the provisions of the Bond Law and in accordance with the Payment Bond.

Paragraph 15.2 Initial Decision

Subparagraph 15.2.1

Due to the new modified language for Article 11, in first sentence of Subparagraph 15.2.1 REPLACE reference to Section 11.5 to Section 11.3.

Paragraph 15.2 Initial Decision

Subparagraph 15.2.1

DELETE the last sentence of Subparagraph 15.2.1 in its entirety.

Subparagraph 15.2.2

After the word "compromise" in the third line, DELETE the remainder of the Subparagraph and, in lieu thereof, SUBSTITUTE with the following: ", (5) request additional time to decide the Claim, or (6)

advise the parties that the Initial Decision Maker is unable to resolve the Claim. If none of the foregoing actions are taken timely with regard to a Claim by Contractor, the Claim shall be deemed to be denied. If none of the foregoing actions are taken timely with regard to a Claim by Owner, the Claim shall be deemed to be granted."

Subparagraph 15.2.4

ADD the following to the end of the Subparagraph: "Any failure by Contractor to timely provide requested information shall not delay a decision on the Claim."

Subparagraph 15.2.5

REPLACE "subject to mediation" with "subject to mediation upon agreement of all parties involved in the dispute"

ADD the following to the end of the Subparagraph: "pursuant to this Article 15."

Subparagraph 15.2.6

DELETE Subparagraph 15.2.6, along with its Sub-subparagraph, in its entirety.

Subparagraph 15.2.7

DELETE Subparagraph 15.2.7 in its entirety.

Subparagraph 15.2.8

ADD new Sub-subparagraph 15.2.8.1 as follows:

- 15.2.8.1 Contractor agrees and acknowledges that Owner is a "contracting body" under the Public Works Contractors' Bond Law of 1967 (the "Bond Law"), and the Work on the Project is public construction and not subject to the filing of Mechanics Liens, and further agrees to provide and specify in its subcontracts with subcontractors for their acknowledgment that their sole remedy against Owner exists only under the provisions of the Bond Law and in accordance with the Payment Bond.

Paragraph 15.3 MEDIATION

Subparagraph 15.3.1

DELETE Subparagraph 15.3.1 in its entirety, and in lieu thereof, SUBSTITUTE the following new Subparagraph:

- 15.3.1 "Any claim, dispute or other matter in question arising out of or related to the Contract Documents shall be subject to mediation only if all involved parties agree to pursue mediation."

Subparagraph 15.3.2

DELETE Subparagraph 15.3.2 in its entirety.

Subparagraph 15.3.4

ADD the following to the beginning of Subparagraph 15.3.4: "If all parties involved in a dispute agree to mediate,"

Paragraph 15.4 Arbitration

DELETE Paragraph 15.4, including all Subparagraphs and Sub-subparagraphs in its entirety and, in lieu thereof, SUBSTITUTE the following:

15.4 Dispute Resolution

15.4.1 Controversies and Claims. Any controversy or Claim arising out of or related to Contractor, the breach thereof, or the Work of the Project shall be resolved through binding arbitration at the option of Owner or otherwise through non-jury trial proceedings in the Lancaster County, Pennsylvania, Court of Common Pleas. Contractor, for itself and each Subcontractor, hereby (a) waives any right which may exist to a jury trial and (b) hereby agrees that all trials be heard by a judge sitting without a jury.

15.4.2 If Owner elects arbitration it must do so either before initiating litigation or within 30 days of service of original process of litigation upon Owner. Owner's demand for arbitration must be filed in writing with the American Arbitration Association and with any other party to be included in the arbitration. All parties necessary for resolution of the dispute in controversy shall be included in the arbitration. The Construction Industry Arbitration Rules of the American Arbitration Association then in effect shall apply to the arbitration, except for rules on discovery where the following Subparagraph shall apply.

15.4.3 In any arbitration proceeding commenced pursuant to this Agreement, the parties shall be entitled to conduct pre-hearing discovery for a period of ninety (90) days, which discovery may include depositions, written requests for the inspection and reproduction of relevant documents or tangible things. Responses to written interrogations and document requests shall be served within thirty (30) days of service thereof. With respect to expert testimony and discovery related thereto, Rule 4003.5 of the Pennsylvania Rules of Civil Procedures shall apply. The arbitrator(s) shall have the authority to issue appropriate orders to enforce the parties' entitlement to discovery hereunder and, upon disobedience of any such order, may prohibit the disobedient party from introducing into evidence designated documents, things, or testimony.

15.4.4. Should any Contractor bring a claim against Owner or Architect, then, unless Contractor prevails on such Claim against Owner or Architect, Contractor shall be liable to Owner and Architect for all of Owner's and Architect's costs in having all such claims dismissed, or in defending all such claims, or both. These costs shall include all of Owner's or Architect's costs, including without limitation personnel costs, attorney fees, expert fees, fees of Architect, travel expenses, and the like.

Paragraph 15.4 Arbitration

ADD the following new Sub-subparagraphs as follows:

- 15.4.1.2 In any arbitration proceeding commenced pursuant to this Paragraph 15.4, the parties shall be entitled to conduct pre-hearing discovery for a period of ninety (90) days, which discovery may include depositions, written interrogations not to exceed forty (40) in number (inclusive of subparts) and written requests for the inspection and reproduction of relevant documents or tangible things. Responses to written interrogations and document requests shall be served within thirty (30) days of service thereof. With respect to expert testimony and discovery related thereto, Rule 4003.5 of the Pennsylvania Rules of Civil Procedure shall apply. The arbitrator(s) shall have the authority to issue appropriate orders to enforce the parties' entitlement to discovery hereunder and, upon disobedience of any such order, may prohibit the disobedient party from introducing in evidence designated documents, things, or testimony.
- 15.4.1.3 The award rendered by the arbitrator(s) shall be final, and judgment may be entered upon it in accordance with applicable law in any court having jurisdiction thereof.
- 15.4.1.4 Contractor acknowledges that the mediation and arbitration procedures outlined in Paragraphs 15.3 and 15.4 hereof shall be Contractor's exclusive remedies with regard to Claims against Owner or Architect, subject to Owner's and Architect's rights to elect to forego mediation or arbitration.
- 15.4.1.5 Should any Contractor bring a claim against Owner or Architect, then, unless the fact finder finds that Contractor had a good faith basis for the Claim against Owner or Architect, Contractor shall be liable to Owner and Architect for all of Owner's and Architect's costs in having all such claims dismissed, or in defending all such claims, or both. These costs shall include all of Owner's or Architect's costs, including without limitation personnel costs, attorney's fees, expert fees, travel expenses, and the like.

ADD new Paragraph 15.5 as follows:

15.5 Scheduling and Completion

- 15.5.1 It is the intention of the parties through these Contract Documents that all Claims between Contractors arising from or related to coordination and scheduling of the Work, and any delays, disruptions, or interferences arising from or related to the actions of Contractors, shall be resolved between Contractors. Specifically, by execution of the Agreement, Contractor agrees to the following:
 - .1 Owner and Architect are not responsible for delays arising from or related to any act or omission of any Contractor. Owner and Architect are not responsible for any costs or damages arising from or related to a Contractor's coordination and scheduling of its Work. Owner and Architect are not liable for any costs or damages suffered by a Contractor arising from or related to any Contractor's coordination of its Work. Contractor hereby waives and releases and indemnifies Owner and Architect from any liability and damages arising from or related to coordination by a Contractor of the Work, or coordination of the Work between or among Contractors, including their subcontractors and suppliers.

- .2 Architect and Owner and their representatives shall not be liable to a Contractor for any increased costs or damages for defective work, interference, or delays arising from or related to any conflict between or among Contractors, their subcontractors and suppliers. Neither Owner nor Architect shall be joined as a party to any disputes or actions between or among Contractors or their subcontractors and suppliers concerning such additional expense or damage. Contractor's exclusive remedy in this regard shall be against any other Contractors involved in the dispute. Should any Contractor attempt to join Owner or Architect in any proceeding arising from any Claim between Contractors, including its subcontractors and suppliers, Contractor attempting to join Owner and Architect shall be liable to Owner and Architect for all of Owner's and Architect's costs arising from or related to such claims, including without limitation, seeking to have all such claims dismissed, or in defending all such claims, or both. These costs shall include all of Owner's or Architect's costs, including without limitation personnel costs, attorney's fees, expert fees, travel expenses, and the like.
- .3 It is agreed by all parties that disputes or actions between Contractors concerning any additional expense or damage herein mentioned above shall not delay completion of the Work, which shall be continued by the parties pending final resolution of a claim, including without limitation, judicial proceedings. All final construction decisions of the Lead Prime Contractor, regarding scheduling and coordination of the Work, whether rendered orally or in writing, shall be observed and followed fully.
- .4 It is agreed by the parties to this Contract that the intent of this Paragraph 15.5.1 is to benefit Owner and Architect, and Owner's interests, and that the provisions of the Contract Documents shall raise Contractor and other Contractors to the status of third party beneficiaries in connection with the coordination and scheduling of the Project and related claims between Contractors, and for no other purpose. Each Contractor hereby waives privity of Contract defenses against other Contractors, and any assertion that Owner or Architect is vicariously or otherwise responsible for the acts and omissions of other Contractors. Each Contractor agrees that the other Contractors have the right to file claims and litigation against Contractor in the event Contractor is alleged to have caused damage to another Contractor by reason of delay, disruption, interference, or lack of coordination, among other reasons, as more fully described in the Contract Documents.
- .5 Contractor specifically releases, foregoes and waives any claims against Owner or Architect for extended overhead, delay damages, "impact" damages, loss of efficiency, loss of productivity, lost profit, or any other similar form of loss, damage or compensation, or other damages related to coordination and scheduling of the Project and all delays, disruptions, and interferences caused by the other Contractors.

15.5.2 Claims Related to Project Delay, Acceleration, Hindrances, Loss or Productivity or Similar Damages

As stated above in Subparagraphs 3.3.4, 6.1.3 and 8.3.3, Contractor shall not pursue any claim for money damages against Owner, Architect, Owner's Representative (or their

respective directors, employees or agents) in the event of any project delay, acceleration, hindrances, loss of productivity or similar damages, but shall be entitled to pursue a claim or dispute resolution proceeding for money damages against any other responsible Contractor pursuant to this Article 15. Each Contractor acknowledges it may be subject to third-party beneficiary claims and litigation brought by other Contractors for money damages as stated above, and expressly waives any privity of contract defense with regard to such proceedings. Each Contractor further agrees it will not bring Owner, Architect, Owner's Representative (or their respective directors, employees or agents) into any such claim or litigation proceedings as a party thereto, and will be subject to the indemnification provisions of Subparagraph 8.3.3 if it violates this commitment.

END OF SECTION 000750

SECTION 000800 - SPECIAL CONDITIONS FOR EDUCATIONAL PROJECTS

Section 000800, Special Conditions for Educational Projects applies to this Project and is in addition to the General Conditions of the Contract for Construction (AIA Document A201) and the Supplementary General Conditions, both contained herein this Project Manual.

Paragraph 1.1 – Discrimination Prohibited:

- 1.1.1 Discrimination Prohibited: All projects for construction, alteration, or repair of any public work shall contain the following provision:

Discrimination Prohibited: According to 62 Pa. C.S.A. § 3701, Contractor agrees that:

- A. In the hiring of employees for the performance of work under the Contract or any subcontract, no contractor, subcontractor or any person acting on behalf of Contractor or subcontractor shall be reason of gender, race, creed or color, discriminate against any citizen of this Commonwealth who is qualified and available to perform the work to which the employment relates;
- B. No contractor or subcontractor or any person on their behalf shall in any manner discriminate against or intimidate any employee hired for the performance of work under the Contract on account of gender, race, creed or color;
- C. The Contract may be cancelled or terminated by the government agency, and all money due or to become due under the Contract may be forfeited for a violation of the terms or conditions of that portion of the Contract.

Paragraph 1.2 - Human Relations Act:

- 1.2.1 The provisions of the Pennsylvania Human Relations Act, Act 222 of October 27, 1955 (P.L. 744) (43 P.S. Section 951, et. seq.) of the Commonwealth of Pennsylvania prohibit discrimination because of race, color, religious creed, ancestry, age, sex, national origin, handicap or disability, by employers, employment agencies, labor organizations, contractors and others. Contractor shall agree to comply with the provisions of this Act, as amended, that are made part of this specification. Attention is directed to the language of the Commonwealth's non-discrimination clause in 16 PA. Code 49.101.

Paragraph 1.3 Conditions of Payment of Wages:

- 1.3.1 Competent Workmen According to Section 752 of the Public School Code of 1949, no person shall be employed to work under such contract except competent and first class workmen and mechanics.
- 1.3.2 Pennsylvania Prevailing Wage Rates. This regulation and the general Pennsylvania prevailing minimum wage rates (Act 422 of 1961, P.L. 987, as amended), as determined by the Secretary of Labor and Industry, which shall be paid for each craft or classification of all workers needed to perform the Contract during the anticipated term therefore in the locality in which public work is performed, are made part of this specification.

- 1.3.3 Workmen's Compensation Act. Contractor shall comply with all applicable provisions of the Workmen's Compensation Act of 1915 and its supplements and amendments, including the amendments set forth in Act 44 of 1994, shall provide evidence of insurance and shall require evidence of insurance to be provided by any and all subcontractors.

Paragraph 1.4 - Standard of Quality:

- 1.4.1 The various materials and products specified in the specifications by name or description are given to establish a standard of quality and of cost for bid purposes. Where "no substitutions" are identified or where proprietary names are used, the bidder must provide the specified product for compliance with Owner's requirements.
- 1.4.2 Design, arrangement, details, utility requirements and dimensions shown on Drawings and included in Schedules and Specifications have been determined and established, after considerable study and planning, based on the criteria of the first named manufacturer. Other manufacturers named or substitutes are considered to be able to perform the same function but not necessarily have the same design, arrangement, details, utility requirements and dimensions. Therefore, if Contractor desires to use a manufacturer or product other than the first named, they shall assume the responsibility of coordination and all costs or extra charges, including costs in connection with the work of other trades or separate Contracts, necessitated by their use.

Paragraph 1.5 - Provision for the Use of Steel and Steel Products Made in the U.S:

- 1.5.1 In accordance with Act 3 of the 1978 General Assembly of the Commonwealth of Pennsylvania, if any steel or steel products are to be used or supplied in the performance of the Contract, only those produced in the United States as defined therein shall be used or supplied in the performance of the Contract or any subcontracts thereunder.
- 1.5.2 In accordance with Act 161 of 1982, cast iron products; shall also be included and produced in the United States. Act 144 of 1984 further defines "steel products" to include machinery and equipment. The Act also provides clarifications and penalties.

Paragraph 1.6 - No Cash Allowances:

- 1.6.1 No cash allowances for any purpose are included in the specifications of the Project. Refer to Division 0 Section "Supplementary General Conditions".

Paragraph 1.7 - Police Clearance:

- 1.7.1 Contractor agrees that it shall comply with Act 34 of 1986 and Act 151 of 1995, both as amended, regarding mandatory criminal background checks. See Section 000510.

Paragraph 1.8 - Anti-Pollution Legislation:

- 1.8.1 On October 26, 1972, House Bill Number 1969 was enacted into law. This Act (No. 247) became effective on November 25, 1972. It requires that Bidders on construction contracts for the Commonwealth of Pennsylvania be advised of those provisions of Federal and State statutes,

rules and regulations dealing with the prevention of environmental pollution and the preservation of public natural resources that affect the Project on which bids are being received.

- 1.8.2 The Bidder shall thoroughly acquaint itself with the terms of the listed statutes, rules and regulations. No separate or additional payment will be made for such compliance. In the event that the listed statutes, rules and regulations are amended or if new statutes, rule or regulations become effective after the date of receipt of Bids, upon receipt of documentation which causes Contractor to perform additional work, Owner may issue a Change Order or deviation request setting forth the additional work that must be undertaken. This change order or deviation request shall not invalidate the Contract.
- 1.8.3 It is the responsibility of Contractor to determine what local ordinances, if any, will affect the Work. They shall check for any county, city, borough or township rules or regulations applicable to the area in which the Project is being constructed and, in addition, for any rules or regulations of other organizations having jurisdiction, such as chambers-of-commerce, planning commissions, industries or utility companies who have jurisdiction over lands which Contractor occupies. Any costs of compliance with local controls shall be included in the price bid, even though documents of such local controlling agencies are not listed herein.

Paragraph 1.9 - Erosion Control:

- 1.9.1 Contractor shall comply with all rules and regulations of Chapter 102, Title 25 of Pennsylvania Soils Erosion and Sedimentation Control. Prior to any grading, Contractor shall prepare an erosion control site plan and obtain Department of Environmental Protection approval.
- 1.9.2 The plan shall be maintained at the site and shall indicate how Contractor plans to control erosion caused by stormwater and prevent silt and sedimentation being distributed off site.
- 1.9.3 Control shall be provided by channels, dikes, sedimentation basins, protection of stockpiled or uncontrolled soil, or any other means necessary; all in accordance with the requirements of the Pennsylvania Department of Environmental Protection.

Paragraph 1.10 - General Guaranty:

- 1.10.1 Neither the final certificate of payment nor any provision in the Contract nor partial or entire use of the improvements embraced in this acceptance of Work not done in accordance with the Contract relieves Contractor of liability in respect to any express warranties or responsibility for faulty materials or workmanship. Contractor shall promptly remedy any defects in the Work and pay for any damage to other work resulting therefrom, which shall appear within a period of 12-months from the date of final acceptance of the Work. Owner will give notice of defective materials and work with reasonable promptness.

END OF SECTION 000800

SECTION 000860 - PA TAX EXEMPT ENTITIES DISCLOSURE

PART 1 - GENERAL

- A. Section 204 of the Tax Reform Code of 1971, 72 P.S. § 7204(57)(i) and (ii), as amended July 1, 1998, provides a tax exemption for the sale at retail to or use by the United States, the Commonwealth of Pennsylvania or its instrumentalities or political subdivisions, of tangible personal property or services; and the use by a construction contractor of building machinery and equipment and services thereto that are transferred pursuant to a construction contract for any charitable organization, volunteer fireman's organization, nonprofit educational institution or religious organization for religious purposes, provided that the building machinery and equipment and services thereto are not used in any unrelated trade or business.
- To permit Contractor to benefit from the foregoing exemption, the tax-exempt entity may be required to cooperate with the construction contractor and provide certain evidence as may be required from time to time by the Pennsylvania Department of Revenue.
- B. Contractor is entitled to the aforementioned tax exemption, and Contractor should reflect the tax exemption in their Bid.
- C. Contractor is encouraged to use a Pennsylvania Tax Exemption Certificate (Form REV-1220) when buying property that qualifies for the tax exemption referenced in Section A above.
- D. Access to Accounting Records: Contractor shall check all materials, equipment and labor entering into the Work and shall keep such full and detailed accounts as may be necessary for proper financial management under this Agreement, and the system shall be satisfactory to Owner. Owner or its representative shall be afforded access to all Contractor's records, books, correspondence, instructions, drawings, receipts vouchers, memoranda, and similar data relating to this Contract, and Contractor shall preserve all such records for a period of three years, or for such longer period as may be required by law, after the final payment (AIA Document A111-1978, Article 12).
- E. Contracts With Subcontractors: Contractor agrees to include the "Access to Accounting Records" paragraph, in full, in any contracts with subcontractors.

END OF SECTION 000860

SECTION 000900 - PREVAILING MINIMUM WAGE PRE-DETERMINATION

- 1.1 The provisions of the Pennsylvania Prevailing Wage Act, Act. No. 442, approved August 15, 1961 (P.L. 987) as amended are hereby incorporated herein, and Contractor and all subcontractors shall comply with the requirements of the applicable portions thereof and the regulations issued in connection therewith.
- 1.2 Pursuant to the requirements of the above Act, the Prevailing Minimum Wage Predetermination is attached hereto and hereby made part of the Contract Documents.
- 1.3 All prime contractors shall submit (3) copies of weekly certification forms with their payment requisitions. The form to be used is the latest edition of the Department of Labor and Industry form "Contractor's or Subcontractor's Weekly Payroll Certification for Public Works Projects" (forms LIPW-123 and LIPW-124).
- 1.4 There shall be paid each laborer or mechanic of Contractor or Subcontractor engaged in Work on the Project, in the trade or occupation listed on the attached Prevailing Minimum Wage Predetermination, not less than the hourly wage rate set opposite the same, regardless of any contractual relationship which may be alleged to exist between Contractor or any subcontractor, and such laborers and mechanics.
- 1.5 Each prime contractor or subcontractor shall post the general prevailing minimum wage rates for each craft and classification involved, as determined by the Secretary of the Department of Labor and Industry, including the effective date of any changes thereof, in prominent and easily accessible places at the site of the Work, or at such place or places as are used by them to pay the workmen their wages.
- 1.6 Each prime contractor or subcontractor shall keep an accurate record showing the name, craft and the actual hourly rate of wage paid to each workman employed by them and such record shall be preserved for two years from the date of payment. The record shall be open at all reasonable hours to the inspection of the public body awarding the Contract and to the Secretary of the Department of Labor and Industry.
- 1.7 Before final payment is made of any sum or sums due on Project, all contractors and subcontractors shall file statements, in writing, in a form satisfactory to the Secretary of the Department of Labor and Industry, certifying to the amounts then due and owing from such contractor or subcontractor filing such to any or all workmen for wages due to each respectively, which statement shall be verified by the oath of Contractor or subcontractor as the case may be, that they have read such statement subscribed by them, knows the contents thereof, and that the same is true of their own knowledge; provided, nevertheless, that nothing contained herein shall impair the right of a contractor to receive final payment because of the failure of any subcontractor to comply with the provisions of Act No. 442, effective February 1, 1961, as amended by Act No. 342, approved August 9, 1963.
- 1.8 Any contractor or subcontractor who shall, under oath, verify the statement required to be filed as indicated above, which is known to them to be false, shall be guilty of a misdemeanor, and shall, upon conviction, be sentenced to pay a fine of not exceeding two thousand five hundred dollars (\$2,500.00) or to undergo imprisonment not exceeding five (5) years, or both.

END OF SECTION 000900

BUREAU OF LABOR LAW COMPLIANCE PREVAILING WAGES PROJECT RATES

Project Name:	New District Office and Athletic Fields
General Description:	Construction of a new two-story masonry and steel framed building for use as school district offices. Includes all MEP systems, security and technology as well as interior and exterior finishes. Project also includes new athletic turf fields including lighting.
Project Locality	southern Lancaster county
Awarding Agency:	Solanco School District
Contract Award Date:	8/17/2026
Serial Number:	26-06369
Project Classification:	Building/Highway
Determination Date:	7/6/2026
Assigned Field Office:	Harrisburg
Field Office Phone Number:	(717)787-4763
Toll Free Phone Number:	(800)932-0665
Project County:	Lancaster County

BUREAU OF LABOR LAW COMPLIANCE PREVAILING WAGES PROJECT RATES

Project: 26-06369 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Asbestos & Insulation Workers	6/30/2025		\$41.50	\$29.86	\$71.36
Asbestos & Insulation Workers	6/29/2026		\$43.50	\$31.11	\$74.61
Boilermaker (Commercial, Institutional, and Minor Repair Work)	3/1/2024		\$36.71	\$19.13	\$55.84
Boilermaker (Commercial, Institutional, and Minor Repair Work)	3/1/2026		\$41.34	\$19.23	\$60.57
Boilermakers	1/1/2024		\$52.10	\$35.72	\$87.82
Boilermakers	1/1/2026		\$58.00	\$36.57	\$94.57
Bricklayers, Stone Masons, Pointers, Caulkers, Cleaners	5/4/2025		\$40.47	\$19.68	\$60.15
Bricklayers, Stone Masons, Pointers, Caulkers, Cleaners	5/3/2026		\$40.49	\$21.51	\$62.00
Carpenters, Drywall Hangers, Framers, Instrument Men, Lathers, Soft Floor Layers	6/1/2025		\$36.84	\$20.44	\$57.28
Carpenters, Drywall Hangers, Framers, Instrument Men, Lathers, Soft Floor Layers	6/1/2026		\$36.84	\$22.69	\$59.53
Carpenters, Drywall Hangers, Framers, Instrument Men, Lathers, Soft Floor Layers	6/1/2027		\$36.84	\$24.94	\$61.78
Cement Finishers & Plasterers	5/4/2025		\$32.23	\$22.27	\$54.50
Cement Finishers & Plasterers	5/3/2026		\$34.23	\$22.27	\$56.50
Cement Finishers & Plasterers	5/3/2027		\$33.49	\$25.01	\$58.50
Cement Masons	5/1/2024		\$35.00	\$21.30	\$56.30
Cement Masons	5/1/2025		\$36.00	\$21.30	\$57.30
Dockbuilder, Pile Drivers	5/1/2025		\$55.23	\$37.99	\$93.22
Dockbuilder, Pile Drivers	5/1/2026		\$56.98	\$37.99	\$94.97
Dockbuilder/Pile Driver Diver	5/1/2025		\$64.35	\$41.74	\$106.09
Dockbuilder/Pile Driver Diver	5/1/2026		\$66.54	\$41.74	\$108.28
Dockbuilder/pile driver tender	5/1/2025		\$55.23	\$37.99	\$93.22
Dockbuilder/pile driver tender	5/1/2026		\$56.98	\$37.99	\$94.97
Drywall Finisher	5/1/2025		\$31.83	\$23.26	\$55.09
Drywall Finisher	5/1/2026		\$33.02	\$24.00	\$57.02
Electricians	9/2/2024		\$44.52	\$26.83	\$71.35
Electricians	9/1/2025		\$46.02	\$28.39	\$74.41
Elevator Constructor	1/1/2025		\$63.40	\$40.03	\$103.43
Elevator Constructor	1/1/2026		\$61.26	\$45.78	\$107.04
Floor Coverer	5/1/2025		\$37.78	\$19.80	\$57.58
Floor Coverer	5/1/2026		\$38.59	\$20.61	\$59.20
Glazier	5/1/2024		\$32.46	\$20.93	\$53.39
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	7/1/2025		\$38.76	\$33.38	\$72.14
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	7/1/2026		\$40.51	\$33.88	\$74.39
Laborers (Class 01 - See notes)	5/1/2023		\$23.26	\$18.03	\$41.29
Laborers (Class 01 - See notes)	5/1/2026		\$28.06	\$19.08	\$47.14
Laborers (Class 02 - See notes)	5/1/2023		\$25.26	\$18.03	\$43.29
Laborers (Class 02 - See notes)	5/1/2026		\$30.06	\$19.08	\$49.14
Laborers (Class 03 - See notes)	4/30/2023		\$26.47	\$18.22	\$44.69

BUREAU OF LABOR LAW COMPLIANCE PREVAILING WAGES PROJECT RATES

Project: 26-06369 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Laborers (Class 03 - See notes)	5/1/2026		\$32.06	\$19.08	\$51.14
Laborers (Class 04 - See notes)	4/30/2023		\$27.97	\$18.22	\$46.19
Laborers (Class 04 - See notes)	5/1/2026		\$33.56	\$19.08	\$52.64
Laborers (Class 05 - See notes)	4/30/2023		\$28.47	\$18.22	\$46.69
Laborers (Class 05 - See notes)	5/1/2026		\$34.06	\$19.08	\$53.14
Laborers (Class 06 - See notes)	5/1/2023		\$25.26	\$18.03	\$43.29
Laborers (Class 06 - See notes)	5/1/2026		\$30.06	\$19.08	\$49.14
Marble Mason	5/1/2025		\$37.20	\$19.24	\$56.44
Marble Mason	5/1/2026		\$39.15	\$19.24	\$58.39
Millwright	6/1/2025		\$43.00	\$22.95	\$65.95
Millwright	6/1/2026		\$44.97	\$22.95	\$67.92
Operators (Building, Class 01 - See Notes)	5/1/2025		\$44.89	\$30.92	\$75.81
Operators (Building, Class 01 - See Notes)	5/1/2026		\$46.05	\$31.76	\$77.81
Operators (Building, Class 01A - See Notes)	5/1/2025		\$47.14	\$31.58	\$78.72
Operators (Building, Class 01A - See Notes)	5/1/2026		\$48.30	\$32.42	\$80.72
Operators (Building, Class 02 - See Notes)	5/1/2025		\$44.61	\$30.83	\$75.44
Operators (Building, Class 02 - See Notes)	5/1/2026		\$45.77	\$31.67	\$77.44
Operators (Building, Class 02A - See Notes)	5/1/2025		\$46.86	\$31.50	\$78.36
Operators (Building, Class 02A - See Notes)	5/1/2026		\$48.02	\$32.34	\$80.36
Operators (Building, Class 03 - See Notes)	5/1/2025		\$41.88	\$30.03	\$71.91
Operators (Building, Class 03 - See Notes)	5/1/2026		\$43.04	\$30.87	\$73.91
Operators (Building, Class 04 - See Notes)	5/1/2025		\$40.74	\$29.70	\$70.44
Operators (Building, Class 04 - See Notes)	5/1/2026		\$41.90	\$30.54	\$72.44
Operators (Building, Class 05 - See Notes)	5/1/2025		\$40.30	\$29.56	\$69.86
Operators (Building, Class 05 - See Notes)	5/1/2026		\$41.45	\$30.41	\$71.86
Operators (Building, Class 06 - See Notes)	5/1/2025		\$39.42	\$29.30	\$68.72
Operators (Building, Class 06 - See Notes)	5/1/2026		\$40.58	\$30.14	\$70.72
Operators (Building, Class 07A- See Notes)	5/1/2025		\$54.56	\$35.21	\$89.77
Operators (Building, Class 07A- See Notes)	5/1/2026		\$56.03	\$36.14	\$92.17
Operators (Building, Class 07B- See Notes)	5/1/2025		\$54.22	\$35.10	\$89.32
Operators (Building, Class 07B- See Notes)	5/1/2026		\$55.69	\$36.03	\$91.72
Painters Class 1 (see notes)	5/1/2024		\$27.59	\$18.08	\$45.67
Painters Class 1 (see notes)	5/1/2025		\$28.42	\$18.36	\$46.78
Painters Class 1 (see notes)	5/1/2026		\$29.70	\$18.78	\$48.48
Painters - Line Stripping	12/1/2024		\$44.12	\$27.91	\$72.03
Painters - Line Stripping	12/1/2025		\$45.12	\$29.41	\$74.53
Painters Class 2 (see notes)	5/1/2020		\$27.43	\$15.99	\$43.42
Painters Class 3 (see notes)	5/1/2020		\$33.18	\$15.99	\$49.17
Piledrivers	5/1/2021		\$43.73	\$37.99	\$81.72
Plasterers	5/1/2024		\$32.93	\$21.08	\$54.01
Plasterers	5/1/2025		\$34.68	\$21.23	\$55.91
Plumber/Pipefitter	5/1/2025		\$45.30	\$29.91	\$75.21
Plumber/Pipefitter	5/1/2026		\$48.30	\$30.66	\$78.96
Roofers (Composition)	5/1/2025		\$46.03	\$34.77	\$80.80

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 26-06369 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Roofers (Composition)	5/1/2026		\$47.53	\$35.22	\$82.75
Roofers (Shingle)	5/1/2024		\$34.35	\$22.20	\$56.55
Roofers (Slate & Tile)	5/1/2024		\$37.35	\$22.20	\$59.55
Sheet Metal Workers	6/1/2025		\$45.02	\$44.71	\$89.73
Sheet Metal Workers	6/1/2026		\$46.62	\$46.36	\$92.98
Sign Makers and Hangars	7/15/2024		\$32.32	\$25.82	\$58.14
Sign Makers and Hangars	7/15/2025		\$33.48	\$26.41	\$59.89
Sprinklerfitters	4/1/2025		\$49.75	\$29.21	\$78.96
Sprinklerfitters	4/1/2026		\$52.82	\$30.56	\$83.38
Terrazzo Finisher	5/1/2025		\$36.32	\$21.68	\$58.00
Terrazzo Finisher	5/1/2026		\$37.12	\$22.76	\$59.88
Terrazzo Grinder	5/1/2025		\$37.10	\$21.68	\$58.78
Terrazzo Grinder	5/1/2026		\$37.93	\$22.76	\$60.69
Terrazzo Mechanics	5/1/2025		\$37.17	\$23.43	\$60.60
Terrazzo Mechanics	5/1/2026		\$38.06	\$24.51	\$62.57
Terrazzo Setter	5/1/2019		\$31.81	\$19.67	\$51.48
Tile & Marble Finisher	5/1/2025		\$35.31	\$16.99	\$52.30
Tile & Marble Finisher	5/1/2026		\$37.26	\$16.99	\$54.25
Tile Setter	5/1/2025		\$37.20	\$19.24	\$56.44
Tile Setter	5/1/2026		\$39.15	\$19.24	\$58.39
Truckdriver class 1(see notes)	5/1/2025		\$41.87	\$0.00	\$41.87
Truckdriver class 2 (see notes)	5/1/2025		\$41.94	\$0.00	\$41.94
Truckdriver class 3 (see notes)	5/1/2025		\$42.43	\$0.00	\$42.43
Window Film / Tint Installer	6/1/2024		\$26.37	\$14.83	\$41.20
Window Film / Tint Installer	6/1/2025		\$27.42	\$15.13	\$42.55
Window Film / Tint Installer	6/1/2026		\$28.35	\$15.60	\$43.95

BUREAU OF LABOR LAW COMPLIANCE PREVAILING WAGES PROJECT RATES

Project: 26-06369 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Carpenter - Chief of Party (Surveying & Layout)	5/1/2021		\$41.42	\$15.49	\$56.91
Carpenter - Instrument Person (Surveying & Layout)	5/1/2021		\$36.02	\$15.49	\$51.51
Carpenter - Rodman I (Survey & Layout)	5/1/2021		\$28.82	\$12.39	\$41.21
Carpenter - Rodman II (Survey & Layout)	5/1/2016		\$18.69	\$13.83	\$32.52
Carpenter	5/1/2025		\$36.87	\$20.49	\$57.36
Carpenter	5/1/2026		\$37.63	\$21.18	\$58.81
Carpenter Welder	5/1/2025		\$37.62	\$20.49	\$58.11
Carpenter Welder	5/1/2026		\$38.38	\$21.18	\$59.56
Carpenters - Piledriver/Welder	1/1/2025		\$37.62	\$20.49	\$58.11
Carpenters - Piledriver/Welder	1/1/2026		\$38.38	\$21.18	\$59.56
Cement Finishers	1/1/2017		\$27.70	\$22.20	\$49.90
Dockbuilder, Pile Drivers	5/1/2025		\$55.23	\$37.99	\$93.22
Dockbuilder, Pile Drivers	5/1/2026		\$56.98	\$37.99	\$94.97
Dockbuilder/Pile Driver Diver	5/1/2025		\$60.31	\$44.97	\$105.28
Dockbuilder/Pile Driver Diver	5/1/2026		\$61.88	\$45.47	\$107.35
Dockbuilder/pile driver tender	5/1/2025		\$55.23	\$37.99	\$93.22
Dockbuilder/pile driver tender	5/1/2026		\$56.98	\$37.99	\$94.97
Electric Lineman	6/3/2024		\$52.80	\$30.61	\$83.41
Electric Lineman	6/2/2025		\$55.42	\$31.04	\$86.46
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	7/1/2024		\$37.26	\$32.63	\$69.89
Laborers (Class 01 - See notes)	5/1/2025		\$26.61	\$19.99	\$46.60
Laborers (Class 01 - See notes)	5/1/2026		\$27.61	\$20.44	\$48.05
Laborers (Class 02 - See notes)	5/1/2025		\$33.23	\$19.99	\$53.22
Laborers (Class 02 - See notes)	5/1/2026		\$34.23	\$20.44	\$54.67
Laborers (Class 03 - See notes)	5/1/2025		\$30.22	\$19.99	\$50.21
Laborers (Class 03 - See notes)	5/1/2026		\$31.22	\$20.44	\$51.66
Laborers (Class 04 - See notes)	5/1/2025		\$30.57	\$19.99	\$50.56
Laborers (Class 04 - See notes)	5/1/2026		\$31.57	\$20.44	\$52.01
Laborers (Class 05 - See notes)	5/1/2025		\$31.24	\$19.99	\$51.23
Laborers (Class 05 - See notes)	5/1/2026		\$32.24	\$20.44	\$52.68
Laborers (Class 06 - See notes)	5/1/2025		\$30.66	\$19.99	\$50.65
Laborers (Class 06 - See notes)	5/1/2026		\$31.66	\$20.44	\$52.10
Laborers (Class 07 - See notes)	5/1/2025		\$30.95	\$19.99	\$50.94
Laborers (Class 07 - See notes)	5/1/2026		\$31.95	\$20.44	\$52.39
Laborers (Class 08 - See notes)	5/1/2025		\$31.43	\$19.99	\$51.42
Laborers (Class 08 - See notes)	5/1/2026		\$32.43	\$20.44	\$52.87
Millwright	6/1/2025		\$45.46	\$23.33	\$68.79
Millwright	6/1/2026		\$47.52	\$23.33	\$70.85
Operators (Heavy, Class 01 - See Notes)	5/1/2025		\$43.46	\$30.50	\$73.96
Operators (Heavy, Class 01 - See Notes)	5/1/2026		\$44.61	\$31.35	\$75.96
Operators (Heavy, Class 01A - See Notes)	5/1/2025		\$45.71	\$31.16	\$76.87
Operators (Heavy, Class 01A - See Notes)	5/1/2026		\$46.86	\$32.01	\$78.87
Operators (Heavy, Class 02 - See Notes)	5/1/2025		\$43.18	\$30.41	\$73.59
Operators (Heavy, Class 02 - See Notes)	5/1/2026		\$44.34	\$31.25	\$75.59

BUREAU OF LABOR LAW COMPLIANCE PREVAILING WAGES PROJECT RATES

Project: 26-06369 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Operators (Heavy, Class 02A - See Notes)	5/1/2025		\$45.43	\$31.08	\$76.51
Operators (Heavy, Class 02A - See Notes)	5/1/2026		\$46.59	\$31.92	\$78.51
Operators (Heavy, Class 03 - See Notes)	5/1/2025		\$40.26	\$29.55	\$69.81
Operators (Heavy, Class 03 - See Notes)	5/1/2026		\$41.43	\$30.38	\$71.81
Operators (Heavy, Class 04 - See Notes)	5/1/2025		\$39.12	\$29.22	\$68.34
Operators (Heavy, Class 04 - See Notes)	5/1/2026		\$40.28	\$30.06	\$70.34
Operators (Heavy, Class 05 - See Notes)	5/1/2025		\$38.67	\$29.09	\$67.76
Operators (Heavy, Class 05 - See Notes)	5/1/2026		\$39.83	\$29.93	\$69.76
Operators (Heavy, Class 06 - See Notes)	5/1/2025		\$37.80	\$28.82	\$66.62
Operators (Heavy, Class 06 - See Notes)	5/1/2026		\$38.96	\$29.66	\$68.62
Operators (Heavy, Class 07A - See Notes)	5/1/2025		\$52.85	\$34.71	\$87.56
Operators (Heavy, Class 07A - See Notes)	5/1/2026		\$54.32	\$35.64	\$89.96
Operators (Heavy, Class 07B - See Notes)	5/1/2025		\$52.51	\$34.60	\$87.11
Operators (Heavy, Class 07B - See Notes)	5/1/2026		\$53.97	\$35.54	\$89.51
Operators (Highway, Class 01 - See Notes)	5/1/2025		\$42.56	\$30.24	\$72.80
Operators (Highway, Class 01 - See Notes)	5/1/2026		\$43.72	\$31.08	\$74.80
Operators (Highway, Class 01a - See Notes)	5/1/2025		\$44.81	\$30.92	\$75.73
Operators (Highway, Class 01a - See Notes)	5/1/2026		\$45.97	\$31.76	\$77.73
Operators (Highway, Class 02 - See Notes)	5/1/2025		\$41.39	\$29.89	\$71.28
Operators (Highway, Class 02 - See Notes)	5/1/2026		\$42.55	\$30.73	\$73.28
Operators (Highway, Class 03 - See Notes)	5/1/2025		\$40.70	\$29.68	\$70.38
Operators (Highway, Class 03 - See Notes)	5/1/2026		\$41.87	\$30.51	\$72.38
Operators (Highway, Class 04 - See Notes)	5/1/2025		\$40.26	\$29.54	\$69.80
Operators (Highway, Class 04 - See Notes)	5/1/2026		\$41.41	\$30.39	\$71.80
Operators (Highway, Class 05 - See Notes)	5/1/2025		\$39.73	\$29.41	\$69.14
Operators (Highway, Class 05 - See Notes)	5/1/2026		\$40.89	\$30.25	\$71.14
Operators (Highway, Class 06 - See Notes)	5/1/2025		\$42.80	\$30.30	\$73.10
Operators (Highway, Class 06 - See Notes)	5/1/2026		\$43.95	\$31.15	\$75.10
Operators (Highway, Class 06/A - See Notes)	5/1/2025		\$45.05	\$30.96	\$76.01
Operators (Highway, Class 06/A - See Notes)	5/1/2026		\$46.21	\$31.80	\$78.01
Operators (Highway, Class 07/A - See Notes)	5/1/2025		\$51.79	\$34.38	\$86.17
Operators (Highway, Class 07/A - See Notes)	5/1/2026		\$53.25	\$35.32	\$88.57
Operators (Highway, Class 07/B - See Notes)	5/1/2025		\$50.37	\$33.97	\$84.34
Operators (Highway, Class 07/B - See Notes)	5/1/2026		\$51.84	\$34.90	\$86.74
Painters Class 1 (see notes)	5/1/2018		\$23.92	\$14.37	\$38.29
Painters - Line Stripping	12/1/2024		\$44.12	\$27.91	\$72.03
Painters - Line Stripping	12/1/2025		\$45.12	\$29.41	\$74.53
Painters Class 2 (see notes)	5/1/2025		\$30.55	\$18.36	\$48.91
Painters Class 2 (see notes)	5/1/2026		\$33.13	\$18.78	\$51.91
Painters Class 3 (see notes)	5/1/2024		\$35.47	\$18.08	\$53.55
Painters Class 3 (see notes)	5/1/2025		\$36.30	\$18.36	\$54.66
Painters Class 3 (see notes)	5/1/2026		\$38.88	\$18.78	\$57.66
Piledrivers	5/1/2025		\$36.87	\$20.49	\$57.36
Piledrivers	5/1/2026		\$37.63	\$21.18	\$58.81

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 26-06369 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Steamfitters (Heavy and Highway - Gas Distribution)	5/1/2022		\$48.43	\$40.28	\$88.71
Truckdriver class 1(see notes)	5/1/2025		\$41.87	\$0.00	\$41.87
Truckdriver class 2 (see notes)	5/1/2025		\$41.94	\$0.00	\$41.94
Truckdriver class 3 (see notes)	5/1/2025		\$42.43	\$0.00	\$42.43



Geotechnical Engineering Report

for the

Southern Lancaster County School District
Proposed Administrative Building
Quarryville, Lancaster County, Pennsylvania

Prepared for:

Crabtree, Rohrbaugh & Associates
401 East Winding Hill Road
Mechanicsburg, Pennsylvania 17055

Prepared by:

Barry Isett & Associates, Inc.
2 Market Plaza Way, Suite 7
Mechanicsburg, PA 17055



Mark V. Wildmann, P.G.
PA Registration: PG-004912
Engineering Geologist



Sean D. Burns, P.G., E.I.
PA Registration: PG-005536
Department Head, Geotechnical Engineering



Date: July 30, 2026
Project #: 1048126.000

1.0 SCOPE OF GEOTECHNICAL SERVICES	1
2.0 SITE DESCRIPTION.....	1
2.1 Existing Conditions	1
2.2 Historic Conditions	1
3.0 PROPOSED DEVELOPMENT	1
4.0 DOCUMENT REVIEW	2
4.1 Bedrock Geology and Soils	2
5.0 SUBSURFACE INVESTIGATION AND DATA.....	3
5.1 Borings	3
5.2 Subsurface Data	3
6.0 GEOTECHNICAL EVALUATION.....	4
7.0 GEOTECHNICAL RECOMMENDATIONS	4
7.1 Site Preparation	4
7.2 Foundations	5
7.2.1 District Administrative Office Building & Retaining Wall.....	5
7.3 General Subgrade Remediation	6
7.4 Concrete Slabs	6
7.5 Seismic Design Information	6
7.6 Excavation.....	6
7.7 Temporary Construction Slopes	6
7.8 Groundwater Control.....	7
7.9 Lateral Earth Pressure Parameters	7
7.10 Structural Fill	8
7.10.1 Reuse of Onsite Soil.....	8
7.10.2 Imported Fill.....	9
7.11 Fill Placement and Compaction	9
7.12 Environmental Considerations	10
7.13 Construction Administration and Quality Assurance	10
8.0 LIMITATIONS	11

Appendix A – Figures

Figure 1 – Site Aerial Photograph

Figure 2 – Site Topographic Map

Figure 3 – Site Geologic Map

Appendix B – Boring Location Plan

Appendix C – Subsurface Data

List of Appendices

1.0 SCOPE OF GEOTECHNICAL SERVICES

Barry Isett & Associates, Inc. (Isett) has conducted a geotechnical engineering study for the proposed new administrative building at 585 Solanco Road in East Drumore Township, Lancaster County, Pennsylvania (the site). This geotechnical study included a review of applicable site information from published sources, a subsurface investigation consisting of borings, and analysis of geotechnical data acquired from the site. This geotechnical engineering report presents the findings from this study and provides geotechnical recommendations for the design and construction of the proposed development.

This report satisfies the geotechnical engineering deliverable requirements outlined in Isett's *Proposal for Geotechnical Engineering* dated May 6, 2026.

Elevations included in this report reference the Post Development Drainage Plan prepared by PennTerra Engineering of Lancaster, Inc. dated July 8, 2025 and provided by the Client. Orientations are in reference to cardinal directions.

This geotechnical study excludes any environmental assessment.

2.0 SITE DESCRIPTION

The 89-acre site is located on Solanco Road, East Drumore Township, Lancaster County, Pennsylvania. The site is surrounded by agricultural and residential development to the north, east, south, and west.

The location of the site and study area are shown in *Figure 1* in *Appendix A*.

2.1 Existing Conditions

The site is currently occupied by the existing Solanco High School building and associated athletic facilities, including Solanco High School Stadium and athletic track, field house, multipurpose fields, tennis courts, five (5) soccer fields, two (2) baseball fields, and two (2) softball fields. A two-story maintenance/restroom building and gravel parking areas and drive lanes are located within the western half of the site.

The site is gently to moderately sloping and lightly terraced with surface grades ranging from El. 621 feet in the southeast to El. 656 feet in the northwest. Natural grades appear to have been slightly modified to accommodate the existing site improvements; however, they likely mimic original site grades.

The area of proposed development (study area) is located on the east-central portion of the site, just east of the existing maintenance/restroom building and within the undeveloped, lawn area. The study area currently consists of open lawn space. Surface grades within the study area are moderately sloping with surface grades ranging from about El. 656 feet in the northwest to El. 630 feet in the southeast.

2.2 Historic Conditions

Historic land use information, topographic maps, and historic aerial photography were reviewed to evaluate the history and existing conditions of the site.

Prior to development, the site was primarily agricultural development along Solanco Road. The site was developed into the current Solanco High School campus and athletic facilities between 1967 and 1972. Since construction of the school campus, several building additions and minor improvements to the existing athletic facilities have been constructed. Development surrounding the site has included minor residential construction, primarily northeast and southeast of the site.

3.0 PROPOSED DEVELOPMENT

Based on the Preliminary/Final Land Development Plan dated July 8, 2025, prepared by PennTerra Engineering, Inc., Isett understands that proposed site development consists of the following:

- One (1) two-story District Administrative Office Building with partially exposed lower level
- One (1) site retaining wall
- Three (3) new multipurpose turf fields with bleachers
- One (1) new parking lot with sidewalks, and associated improvements
- One (1) new stormwater management basin

Note that this report addresses the proposed District Administrative Office Building (DAO) and retaining wall only. The proposed DAO building will be located to the east of the existing maintenance/restroom building. The proposed two-story structure has a total footprint of about 17,300 square feet (SF), an upper level finished floor elevation (FFE) of El. 652.0 feet, and a lower level FFE of El. 640.0 feet. This structure is anticipated to have a slab-on-grade combined with steel framing.

The proposed site retaining wall will be located immediately south of the DAO to support the grade change between the DAO and the proposed turf field. The wall is proposed to have a length of about 230 feet and a maximum retained height of about 9 feet. The proposed wall type was unknown at the time of the study.

Preliminary structural information for the proposed building was not available at the time of this study. Based on our experience with projects of similar type and size, Isett anticipates maximum vertical column loads of approximately 125 kips, and maximum wall loads of 5 kips per linear foot (klf).

Construction of the proposed DAO will require fills over a majority of the footprint to accommodate the proposed FFEs. Cuts of up to 22 feet and fills up to about 8 feet will be required to accommodate proposed grading for the administrative building and retaining wall.

4.0 DOCUMENT REVIEW

Published geologic and topographic information presented by the Department of Conservation and Natural Resources (DCNR) pertaining to the site was reviewed as part of this study to understand the regional geology.

4.1 Bedrock Geology and Soils

The site is included in the USGS Wakefield, PA 7.5' Topographic Quadrangle. It is in the Piedmont Upland Section of the Piedmont Physiographic Province. The dominant topographic landforms in the Piedmont Upland Section are broad, rounded to flat-topped hills and shallow valleys. Sediments originate from fluvial erosion and some periglacial mass wasting. Relief is very low (0 to 100 feet). The geologic structure of the Piedmont Upland Section of the Piedmont Physiographic Province is characterized by extremely complex folding and faulting.

Published geologic mapping indicates that the site is underlain by Lower Paleozoic aged Octoraro Formation. The Octoraro Formation consists of a phyllite that contains some schist, hornblende gneiss, and granitized members. It has quartz-albite-muscovite-chlorite assemblages. Its thickness is unknown.

Maps depicting the regional topography and bedrock geology are included in *Figure 2* and *Figure 3* of *Appendix A*.

Published soils mapping provided by the United States Department of Agriculture (USDA) Natural Resources Conservation was reviewed. Surface soils within the study are mapped as follows:

- Glenelg silt loam, 8 to 15 percent slopes
- Glenelg silt loam, 3 to 8 percent slopes
- Manor silt loam, 8 to 15 percent slopes

The parent material is described as residuum weathered from mica schist.

5.0 SUBSURFACE INVESTIGATION AND DATA

The subsurface investigation for this study consisted of borings within the footprint of the proposed DAO.

The borings were completed under the full-time observation of an Isett Professional Geologist. Logs documenting sample information and field observations were maintained throughout the investigation.

Test locations were selected by Baker, Ingram & Associates and located in the field using handheld GPS and existing features as reference. Elevations presented herein were estimated based on the Post Development Drainage Plan prepared by PennTerra and should be considered approximate.

Testing locations are shown on the *Boring Location Plan*, provided in *Appendix C*.

5.1 Borings

A total of six (6) geotechnical borings (identified as B-1 through B-6) were completed within the footprint of the proposed administrative building.

The borings were performed on June 12, 2026, by Enviroprobe Service Inc. utilizing a Geoprobe 7822DT track-mounted drill rig. The borings were advanced to depths ranging from 11 feet to 20 feet below existing grades using hollow-stem continuous flight augers.

Standard Penetration Test (SPT) samples of the subsurface soils were obtained using a 2-inch outer-diameter split-barrel sampler in accordance with American Society for Testing and Materials (ASTM) D1586. The sampler was driven using an automatic hammer. The number of hammer blows required to drive the soil sampler 6 inches into the ground (the blow count) was recorded for each soil sample on the field logs. Blow counts are used to calculate the SPT N-value for a sample, and this N-value is used to estimate engineering parameters necessary for geotechnical analyses.

Refusal of the hollow-stem augers or SPT values greater than 50 blows over less than 6 inches of advancement was encountered in borings B-1, B-4, and B-6 at depths ranging from 11.0 feet to 19.4 feet below existing grades, corresponding to El. 633.4 ft. to El. 616.8 ft. Refusal of the drilling equipment is generally indicative of the bedrock surface.

Groundwater levels were inferred from the moisture content of the samples obtained during the drilling procedures and detected using a water level meter after the completion of each boring. Boreholes were backfilled using the extracted soil cuttings mixed with dry Portland Type I/II cement.

Subsurface Profiles and Boring Logs are included in *Appendix C*.

5.2 Subsurface Data

The following strata were identified during the geotechnical investigation and categorized based on their engineering properties and environment of deposition/formation. Descriptions of each distinct stratum are as follows:

- **Topsoil** was encountered at all boring locations directly at the surface and ranged in thickness from 0.3 feet to 0.5 feet thick. Topsoil consists of fine-grained, organic-rich soil. The presence of organic material was inferred visually and by odor.
- **Colluvium** was encountered at all boring locations below the topsoil and extending to depths ranging from 5 feet to 13.4 feet below existing grades. Soils in this stratum were classified as SM and GW in accordance with the Unified Soil Classification System (USCS). The soils were orangish brown, tan, white, and black, moist, and non-plastic.

N-values obtained within the stratum ranged from 5 blows per foot to more than 50 blows per foot, indicative of a very loose to very dense relative density.

- Colluvium refers to soils that originate from the gradual down-slope movement of soil materials derived from adjacent uplands. These processes are driven by freeze/thaw processes and gravity forces acting over geologic time.
- **Residual Soil** was encountered at all boring locations below the colluvium and extending to depths ranging from 11 feet to 20 feet below existing grades. Soil in this stratum was classified as SM in accordance with the USCS. The soils were orangish brown, tan, reddish brown, white, and tan, moist, and exhibited low-plasticity or were non-plastic.

N-values obtained within the stratum ranged from 3 blows per foot to more than 50 blows per foot, indicative of a very loose to very dense relative density.

In sedimentary geology, the term *residuum* describes the generally fine-grained to granular overburden soil which accumulates as the parent rock chemically and mechanically weathers over geologic time.

- **Bedrock** was encountered in borings B-1, B-4 and B-6 at depths ranging from 11.0 feet to 19.4 feet below existing grades, corresponding to El. 633.4 feet to El. 616.8 feet. Rock core samples of the underlying bedrock were not collected for this project.
- **Groundwater** was not encountered during the subsurface investigation. Observations were made during and shortly after the completion of drilling, and are representative of the conditions at that time only.

6.0 GEOTECHNICAL EVALUATION

In general, the study area is underlain by approximately 11.0 feet to more than 20.0 feet of colluvium and residual soils beneath surficial topsoil. The colluvium was found to be primarily medium dense with sporadic zones of loose and dense soils. Residual soils were found to be primarily medium dense to dense with relative densities generally increasing with depth. Proposed shallow spread/strip footings will bear on colluvium, residual soils and/or structural fill soils.

7.0 GEOTECHNICAL RECOMMENDATIONS

7.1 Site Preparation

Site development for the proposed improvements should begin with removal of organics, topsoil, vegetation, and any structures and remaining foundation elements that will conflict with the proposed development. Land disturbance sequencing should follow the construction phasing plan developed by the project Civil Engineer. Topsoil should be stockpiled for subsequent reuse or removed from the construction area in accordance with applicable regulations.

Existing utilities are not known to be present within the project area. If existing utilities are encountered, they should be rerouted from the work area or protected during construction if to remain in service. Coordination to abandon or reroute any existing utilities should be coordinated directly with the utility owner. Utilities designated to be abandoned should be removed or filled using flowable fill or grout. Prior to placing flowable fill or grout, the flow path of all pipes should be verified to ensure that filling pipes will not adversely affect nearby properties and/or existing/proposed utilities. Excavations made to remove existing utilities should be backfilled with compacted structural fill in accordance with this report.

Based on the proposed DAO building FFEs, bulk cuts and fills on the order of approximately 3 feet and 12 feet are anticipated to achieve proposed grades within the building footprint. Bulk fills will also be required to achieve proposed grades within the proposed landscaped area and parking lot to the east and west of the proposed DAO building, respectively.

All work should be performed in a manner that avoids impacts to nearby buildings, roadways, and utilities. Appropriate protection of these elements should be provided as necessary during all construction activities.

Based on the proposed site development, Isett does not anticipate that underpinning or undermining prevention of adjacent structures will be required.

Exposed subgrades within the proposed development areas should be proofrolled prior to placing structural fill to raise grades or constructing finished surfaces. Proofrolling requires a minimum 10-ton smooth drum roller, or equipment with similar contact pressure, to pass slowly over the surface at a speed not to exceed approximately 3 miles per hour. Where equipment access is restricted, the equipment with the greatest contact pressure that can access the work area should be used for the proofroll. A representative of the Geotechnical Engineer shall observe the ground surface as the roller passes and note any signs of instabilities such as rutting or surface deflection.

Additional proofrolling should be performed in any areas deemed necessary by the Geotechnical Engineer based on observations. Any surface instabilities revealed by the proofroll should be remediated at that time. Proofrolling of subgrade may be necessary more than once, depending on the construction schedule and precipitation events. The subgrade should be sealed at the end of each workday by slow passes of compaction equipment. Once subbase material is placed on a subgrade, construction travel should be restricted from the area.

7.2 Foundations

The depth of frost penetration in East Drumore Township is 36 inches. Bottom of foundations along building perimeters and within interior, unheated areas must be placed equal to or lower than the frost depth below the final exterior grade for protection against uplift from frost heave.

Column and wall foundations must be no less than 3 feet or 1.5 feet in any dimension, respectively, regardless of whether the allowable bearing capacity permits a smaller dimension.

Foundation bearing materials must be unfrozen, relatively dry, firm, and stable prior to the placement of foundation concrete. Loose material shall be completely removed from the foundation excavation, and the bottom of the excavations shall be compacted with hand-operated equipment such as a “jumping-jack” tamper or walk-behind trench roller.

Continuous foundations can be stepped if the bottom of the foundation maintains the minimum soil cover below final exterior grade for protection against frost heave. Steps are to be vertical (formed) and should not exceed 2 feet in vertical change over a 5-foot horizontal distance. Steps greater than 2 feet in height should be designed to resist stresses from lateral soil pressure and adjacent foundation surcharge.

Based on the bedrock elevations encountered during the geotechnical investigation, continuous wall foundations are not expected to span the interface between bedrock and soil.

7.2.1 District Administrative Office Building & Retaining Wall

The proposed DAO may be supported by conventional shallow foundations bearing on structural fill soils, colluvium and residual soils after topsoil removal and structural fill placement. Foundations for both structures can be designed for an allowable bearing capacity of 2.5 ksf, which is limited by the anticipated bearing qualities of the structural fill, colluvium and residual soils. Total and differential settlements are not expected to exceed 1.0 inch and 0.5-inch, respectively.

The foundations walls on the north side of the lower level and the east side of the upper level will double as retaining walls. These retaining walls will support a maximum grade change of approximately 13 feet. Design of these walls must consider all forces, including but not limited to bearing capacity, sliding resistance, overturning, eccentricity, etc.

Based on a minimum proposed ground surface elevation of El. 630.0 feet, the recommended BFE for the retaining wall is El. 527.0 feet.

7.3 General Subgrade Remediation

The geotechnical borings performed for this study revealed generally favorable subgrade conditions; however, remediation of unstable subgrade may be required in localized areas. Remediation of unstable subgrade may consist of both additional surficial compaction and deeper remediation. Moisture conditioning (removal, aeration, replacement, and compaction) of very moist or wet subgrade soils in the shallow subsurface may also be required to achieve subgrade stability in isolated regions of the proposed development footprints, or during wet, cold conditions.

Deeper instabilities that cannot be remediated by surficial compaction should be remediated by over-excavating to stable subgrade and backfilling to proposed subgrade elevation with compacted lifts of structural fill in accordance with this report. The appropriate subgrade remediation should be determined by the Geotechnical Engineer's on-site representative during construction.

7.4 Concrete Slabs

It is anticipated that the subgrades for concrete slabs-on-grade will consist of structural fill, colluvium and/or residual soils.

Concrete slabs bearing on the abovementioned strata can be designed for a subgrade reaction modulus of 125 pounds per square inch per inch (pci) assuming subgrade remediation performed in accordance with the previous section.

Concrete slabs are recommended to be supported on a minimum 6-inch layer of crushed aggregate to allow for a uniform distribution onto varying subgrade materials and a capillary break. Interior slabs not subject to precipitation may be supported on a minimum 4-inch layer of crushed aggregate. The crushed aggregate shall meet the criteria for AASHTO #57 stone or an equivalent.

A moisture barrier is recommended for damp-proofing slab floors. The placement of the moisture barrier should be performed in accordance with the manufacturer's recommendations and the guidelines presented by the Portland Cement Association.

7.5 Seismic Design Information

The determination of earthquake loads based on the structural design provisions of the IBC requires that a site be classified based on the average properties of the top 100 feet of soil and rock materials. Based on the average corrected SPT values obtained during this study as well as the inferred bedrock depth, the site meets the criteria for Site Class C per *Minimum Design Loads for Buildings and Other Structures* (ASCE 7), Chapter 20.

7.6 Excavation

Bulk excavation on the order of 3 feet is anticipated to achieve finished grades within the proposed DAO Building footprint. Excavations will occur primarily within the colluvium and residual strata. Standard late-model excavating equipment is expected to be sufficient to perform the required excavations within these strata without significant delays.

7.7 Temporary Construction Slopes

If construction personnel or equipment are to enter an open excavation, the excavation must be sloped, benched, or shored to prevent collapse in accordance with Occupational Safety and Health Administration (OSHA) guidelines presented in *Safety and Health Regulations for Construction*, 29 CFR 1926, Subpart P. A competent person as defined by the aforementioned OSHA regulation is required to confirm stability of all excavations during construction. If deemed necessary by said competent person, the design of excavation support needs to consider lateral earth pressures and surcharges such as loads from construction equipment,

traffic, adjacent structures, etc. The majority of site excavation will occur within the colluvium and residuum. These strata are expected to classify as OSHA Type C and shall have a maximum temporary slope of 1.5H:1V. If required, excavations greater than 20 feet in depth must be designed by a Professional Engineer.

Excavations adjacent to existing structures, such as foundations, walls, slabs, roadways, pavements, or utilities, shall be reviewed by a representative of the Geotechnical Engineer to evaluate undermining risk. Generally, excavations extending below the 1H:1V influence zone of these structures present the potential to undermine these structures. Based on the proposed development concept, Isett does not anticipate that the proposed excavations will present an undermining risk.

Based on the current land development plan, Isett does not anticipate that support of excavation (SOE) or underpinning will be required to prevent movement of existing adjacent structures during construction. If construction sequencing or utility installations require excavations that pose a risk of undermining newly constructed site features, the Geotechnical Engineer of Record should review the proposed excavation plan to determine whether temporary shoring or structural underpinning are required.

7.8 Groundwater Control

Based on conditions encountered during the subsurface investigation, excavations for shallow foundations, caissons/drilled shafts and utilities are anticipated to be above the regional groundwater table. Although groundwater may fluctuate seasonally and at times of precipitation, it is not expected to interfere with the proposed construction.

Surface water control and shallow seepage during periods of wet weather are anticipated and can be controlled using conventional submersible pumps and gravel sumps. The pumping, handling, and discharge of all dewatering effluent should be performed in accordance with all applicable regulations and any environmental requirements for the site.

7.9 Lateral Earth Pressure Parameters

The proposed development includes a site retaining wall to support the proposed grade changes. It is assumed that this wall will consist of a modular block retaining wall or cast-in-place reinforced concrete cantilever wall.

Lateral earth pressures to be used in the engineering design of retaining walls and below grade walls are shown in *Table 1*. The presented parameters do not include a safety factor reduction. These lateral earth pressures can be modeled based on Rankine theory with equivalent fluid pressures as presented in the following table. Below-grade wall design must accommodate any transient surcharges from construction equipment, and/or permanent surcharges from adjacent foundations or traffic loads that are to be located within the Rankine wedge.

The retaining walls should be designed with free-draining gravel and perforated pipe behind the wall to relieve hydrostatic pressure behind the wall. The perforated pipe should be daylighted near the base of the wall or drained into a nearby permanent drainage structure.

Wall design must be signed and sealed by a Professional Geotechnical/Structural Engineer licensed in the Commonwealth of Pennsylvania.

Table I – Lateral Earth Pressure Parameters			
Material	Colluvium	Residuum & Structural Fill*	PennDOT 2A
Internal Friction Angle	28°	32°	38 °
Moist Unit Weight	105 pcf	120 pcf	140 pcf
Rankine Coefficient of Active Earth Pressure – K_a	0.36	0.31	0.24
Rankine Coefficient of Passive Earth Pressure – K_p	2.77	3.25	4.20
Rankine Coefficient of At-Rest Earth Pressure – K_0	0.53	0.47	0.38
Coefficient of Friction for Sliding Resistance - μ	0.35	0.42	0.52

**Imported material meeting the requirements of ideal structural fill (see Section 7.13.2)*

It is critical that the bearing soils at the base of the wall be inspected by the Geotechnical Engineer. Any unsuitable or unstable soil shall be removed and replaced as directed by the geotechnical engineer prior to wall construction to provide adequate bearing capacity and minimize settlement.

Prior to placement, any wall backfill material should be tested and approved by the wall designer. All backfill placed behind the retaining wall must conform with the specifications of the approved wall design plans.

During construction, all structural fill used to backfill walls should be inspected by the Geotechnical Engineer to confirm material is compacted to the minimum requirements of the design plans or specifications.

The proposed wall types, construction means and methods, and supporting design calculations, signed and sealed by a Licensed Professional Geotechnical/Structural Engineering in the Commonwealth of Pennsylvania, should be submitted to the Owner and Project Geotechnical Engineer for review.

7.10 Structural Fill

Structural fill is a material used to support foundations, pavements, slabs and sidewalks, and backfill walls. Ideally, structural fill shall meet the following criteria:

- Relatively free of debris, waste, frozen materials, vegetation, organics, ash, and cinders.
- Homogeneous.
- Having a plasticity index of less than 10.
- Free of rock or gravel larger than three inches in any dimension.
- Containing less than 30 percent by weight smaller than the No. 200 sieve (fine particles).
- Meeting the definition of clean fill according to *PA DEP Management of Fill Policy*, 258-2182-773.
- Containing less than 0.5 percent sulfur.

7.10.1 Reuse of Onsite Soil

Materials expected to be made available from excavations during the site development consist mainly of colluvium and residuum. Generally, the colluvium and residual soils are considered ideal for reuse as structural fill; however, they may require moisture conditioning (drying) if subject to precipitation after excavation.

Both the colluvium and residuum exhibit a fine-grained (silt) component and are expected to be sensitive to moisture. If earthwork is performed during wetter or cooler months, they may require moisture conditioning prior to reuse. Traditional moisture conditioning may result in delays but is considered feasible during warmer months (May through September). Isett expects that traditional moisture conditioning outside of this period will

result in excessive construction delays. Construction delays can be minimized by implementing a chemical stabilization program to improve soil workability and to expedite structural fill placement and compaction if earthwork occurs during colder months. The Geotechnical Engineer of Record can assist with development of a site-specific chemical stabilization program depending on the anticipated construction schedule.

7.10.2 Imported Fill

If soil import is required or preferred to achieve the proposed site grades, these soils should meet the requirements for ideal structural fill outlined previously in this Section. In addition to the above criteria, imported structural fill shall be classified as well-graded, poorly-graded, or silty gravel (GW, GP, or GM); well-graded, poorly-graded, silty sand (SW, SP, or SM); or any combination of any of these classifications by the USCS.

The Management of Fill Policy adopted by the PA DEP provides procedures for determining whether fill is “clean fill.” The ESA Phase I results may necessitate the need for soil sampling and analysis. In addition to extra costs, these environmental services can add weeks to months to the approval of moving soil on or off-site.

The Geotechnical Engineer should review all structural fill prior to import.

7.11 Fill Placement and Compaction

All fill should be placed in horizontal or near-horizontal “lifts” and compacted to the satisfaction of the Geotechnical Engineer.

Fill materials shall not be placed in areas with standing water, atop frozen subgrade, or on surfaces that have not been approved by the Geotechnical Engineer.

Generally, the loose lift thickness of structural fill should not exceed 12 inches and should be compacted with a smooth-drum, vibratory roller with a minimum static drum weight of 10 tons or equivalent compaction equipment. In trenches and other areas with limited maneuverability, fill should be placed in loose lifts not exceeding 4 inches thick and should be compacted with smaller compaction equipment (smaller drum rollers, walk behind rollers, jumping jack style tampers, etc.).

Structural fill shall be placed with a moisture content within 2 percent of the optimum moisture content for compaction as determined by ASTM D698 or ASTM D1557.

The recommended compaction criteria for structural fill areas are provided in *Table II* below. The level of compaction is the density that equates to a percentage of the maximum dry density (MDD) as determined by either a Standard Proctor test (ASTM D698) or a Modified Proctor test (ASTM D1557).

Table II – Compaction Criteria		
Structural Area	Percent MDD (ASTM D698)	Percent MDD (ASTM D1557)
Foundation Support Wall Backfill Pavement Subgrade Slab Support Sidewalk Support	98	95
Utility Trenches Not Beneath a Structure	95	92
Landscaped Areas	92	90

A successful compaction routine should be determined on-site with the support of a representative of the Geotechnical Engineer. This routine should include lift thickness and the number of passes of the compaction equipment needed to achieve required compaction.

7.12 Environmental Considerations

An environmental professional should determine the testing requirements for soils and dewatering effluent (if required). If environmental impacts to the soil or groundwater are identified and result in significant offsite disposal costs, Isett should be notified immediately to evaluate the environmental implications on the geotechnical recommendations in this report.

If buried tanks are encountered, UST removal should be performed by a PA DEP certified tank removal contractor under the oversight of an environmental professional working under the supervision of a Professional Geologist licensed in the Commonwealth of Pennsylvania.

Environmental conditions that have yet to be identified and/or characterized may override geotechnical recommendations presented herein. Environmental conditions should be considered with respect to impacts on the geotechnical aspects of the work described in this report and together with recommendations regarding on-site reuse of site materials, foundation design, and off-site disposal of materials. If future action is required to address the environmental conditions, the Geotechnical Engineer should be provided the opportunity to review the action plan and revise engineering recommendations provided herein, if necessary.

7.13 Construction Administration and Quality Assurance

As the project approaches construction phase, the Geotechnical Engineer should participate in descope and pre-construction meetings with the project team and prospective site and foundation contractors to discuss anticipated construction challenges. The Geotechnical Engineer should review the final civil and structural design documents, assist with generation of applicable project specifications, and review design submittals provided by design-build and specialty contractors.

The Geotechnical Engineer should remain active in the project throughout construction phase by reviewing shop drawings relating to geotechnical aspects of the construction, reviewing field reports prepared by the Owner's third-party construction materials testing agency, responding to Request for Information notices related to geotechnical aspects of construction, preparing supplemental geotechnical documents for construction, and performing site visits as requested by the Contractor, Architect, or Owner to evaluate field conditions.

This project is anticipated to require earthwork. Special inspections should be performed continuously throughout these construction activities. Any unexpected conditions encountered during excavation should be further evaluated by a licensed geotechnical professional or foundation design engineer.

Although this geotechnical study was completed within industry standards of the profession, earthen materials can vary between testing locations. As a result, the subsurface conditions described or interpreted herein should be confirmed by an on-site representative of the Geotechnical Engineer of Record during construction in order to identify conditions that deviate in important ways from the design assumptions and confirm the applicability of the recommendations presented herein.

Providing continuity of geotechnical services from initial investigation through construction allows for a quick reaction to such situations, and a means to provide a resolution to issues effectively and economically. As the project moves from design into the construction phase, the budget should allow for all aspects of the geotechnical construction to be inspected by a representative of the Geotechnical Engineer of Record.

8.0 LIMITATIONS

This geotechnical engineering report was prepared by Barry Isett & Associates, Inc. (Isett) in general accordance with industry standards for the geotechnical profession. This report was prepared based on the limited subsurface data encountered during this geotechnical investigation. The conclusions presented in this report are based on the subsurface data collected and the subsequent interpretation as stated in this report. Actual field conditions can vary between testing locations. If subsurface conditions during construction or supplemental investigation vary considerably from those described in this report, the recommendations in this report may need to be reevaluated.

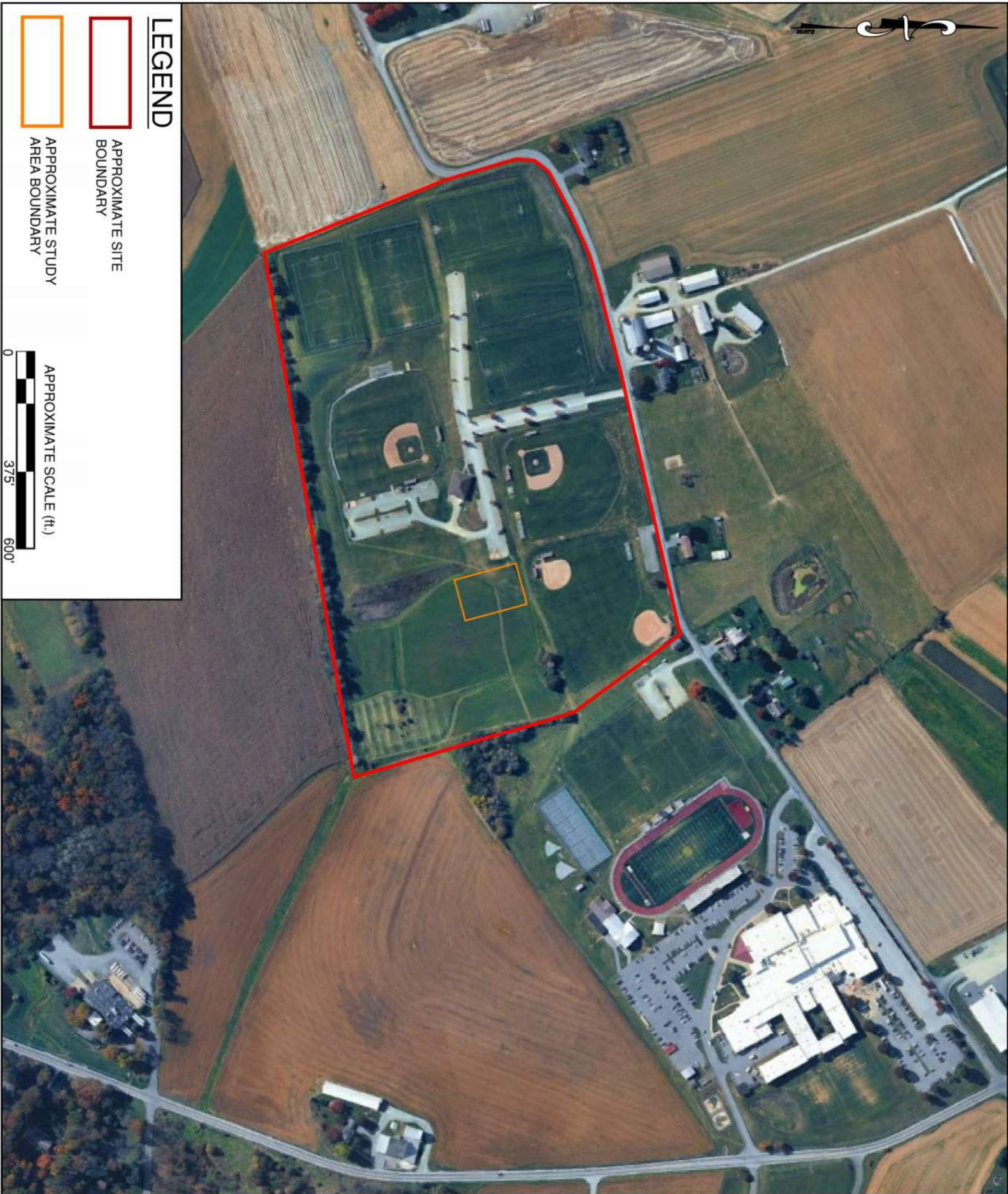
This report, including all supporting exploration logs, field data, field notes, laboratory test data, and other documents prepared by Isett in connection with this project have been prepared for the use of the addressed recipient. No warranty, expressed or implied, is made herein. Use and reproduction of this report by any other person without written permission of Isett and the addressed recipient is unauthorized and such use is at the sole risk of the user.

The scope of services for this study did not include any environmental assessment or evaluation for the presence or absence of natural resources.

Isett reserves the right to review and revise the recommendations contained within this report when design information becomes available. The conclusions and recommendations presented herein assume that construction practices will be completed following the industry standard of care and that Construction Quality Control will be overseen by a Professional Engineer qualified in Geotechnical Engineering and familiar with the content and intent of this report.

Appendix A

Figures



APPROXIMATE SITE BOUNDARY

APPROXIMATE STUDY AREA BOUNDARY

0 375' 600'

APPROXIMATE SCALE (ft.)

LEGEND

FIGURE 1

DATE: 09/20/2026

DESIGN: CHS

GRAPHIC: MWW

DRAWN: A/P/DC

ALD: P. J. M. S.

TITLE: 1048126.000 MWW

COPYRIGHT: 2026

SITE AERIAL PHOTOGRAPH

SOUTHERN LANCASTER COUNTY SCHOOL DISTRICT

PROPOSED ADMINISTRATIVE BUILDING

EAST DRUMORE TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA

BARRY ISETT & associates inc

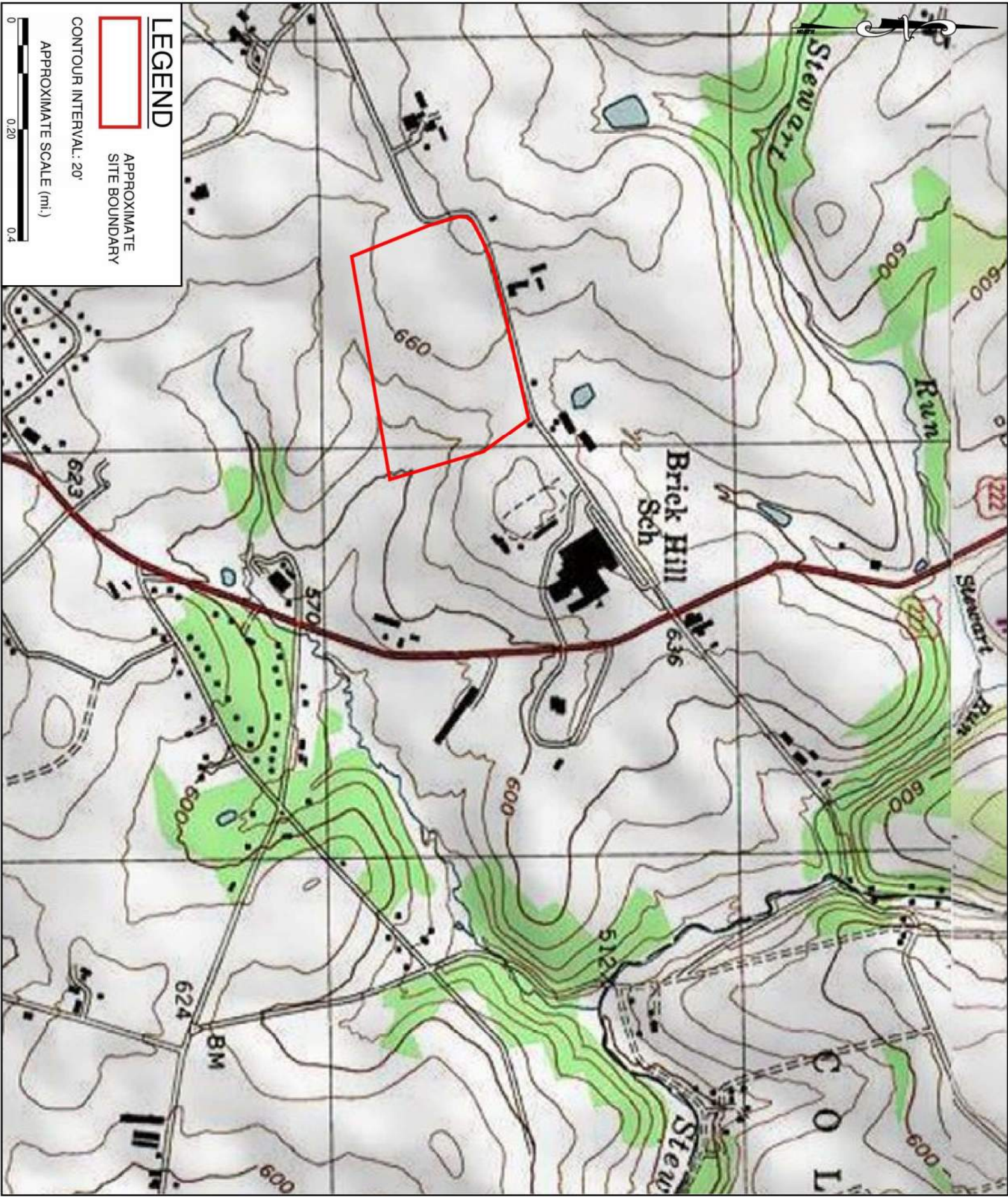
MULTI-DISCIPLINE ENGINEERS AND CONSULTANTS

5420, Crackersport Rd., Allentown, PA 18104

610.398.0904 610.481.9098

barryisett.com

DRAWING SOURCE: Google Earth - Imagery date 6/2/2026



REGIONAL TOPOGRAPHIC MAP

SOUTHERN LANCASTER COUNTY SCHOOL DISTRICT
PROPOSED DISTRICT OFFICE
EAST DRUMORE TOWNSHIP, LANCASTER COUNTY,
PENNSYLVANIA

DATE	DESIGN
02/20/2026	CHN
SCALE	GRAPHIC
1"=100'	MAN
DRAWN	APPROVED
ALD	PJMS
1048126.000	MAN
COPYRIGHT 2026	

BARRY ISETT & associates INC.

5420, Crackersport Rd., Allentown, PA 18104
610.398.0904 610.481.9098
barryisett.com

MULTI-DISCIPLINE ENGINEERS AND CONSULTANTS



LEGEND

◆ APPROXIMATE SITE LOCATION

APPROXIMATE SCALE (mi.)



FAULTS

— Existence Certain,
location accurate
- - - Existence Certain, location
approximate

FOLDS

— Anticline
— Syncline
— Fold pair

GEOLOGIC UNITS

— Xo - Octoraro Formation
— Xpb - Peach Bottom Slate and Cardiff Conglomerate
— Xu - Ultramafic Rocks
— Occ - Conestoga Formation

REGIONAL GEOLOGIC MAP

SOUTHERN LANCASTER COUNTY SCHOOL DISTRICT
PROPOSED DISTRICT OFFICE
EAST DRUMORE TOWNSHIP, LANCASTER COUNTY,
PENNSYLVANIA



5420, Crackersport Rd., Allentown, PA 18104
610.398.0904 610.481.9098
barryisett.com

FIGURE 3

DATE:	DSG:
SCALE:	CM:
GRAPHIC:	MM:
DRAWING:	APP:
ALD:	P. MGR:
JOB:	MMW:
1048126.000	
COPYRIGHT 2026	



Appendix B

Boring Location Plan



Appendix C

Subsurface Data



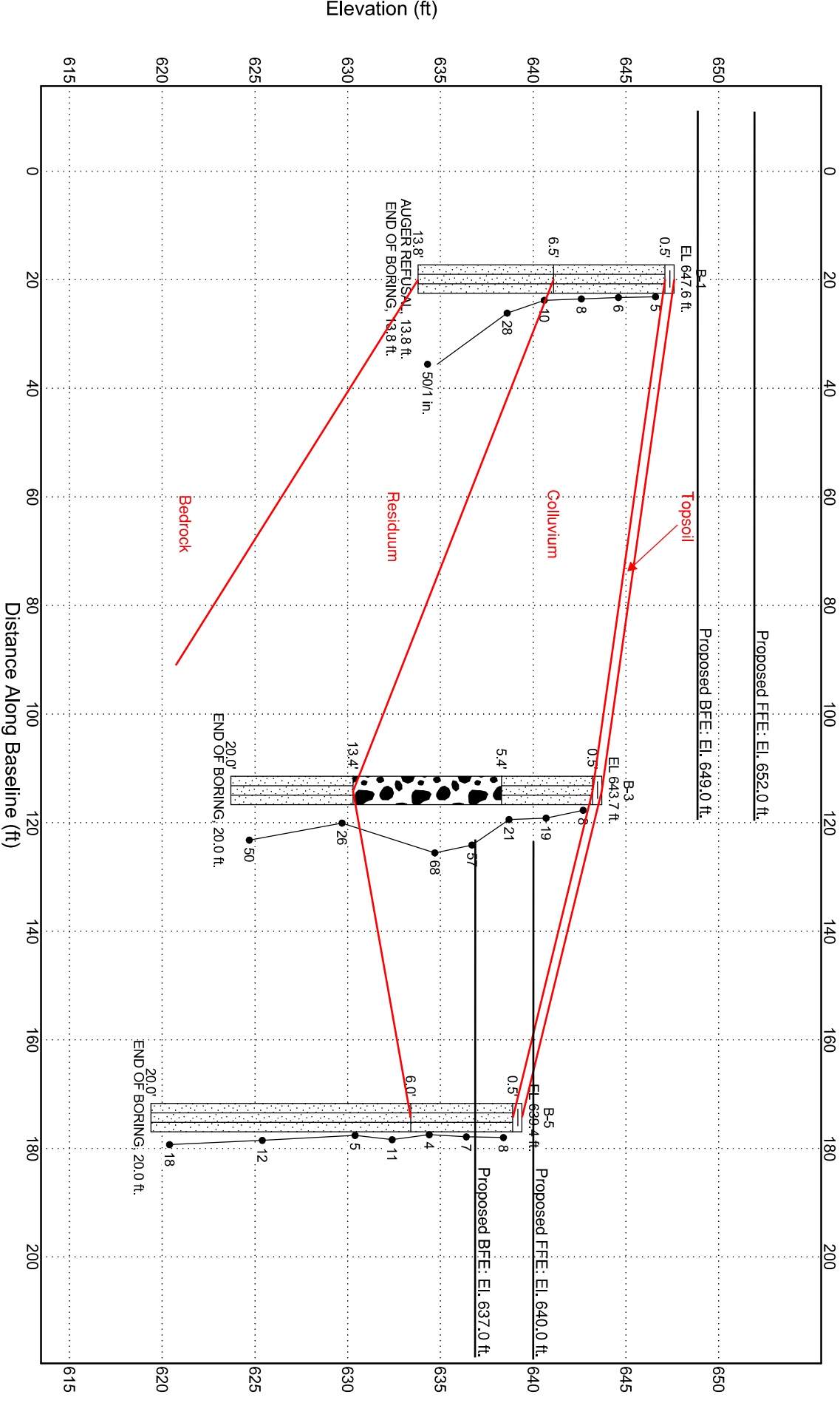
CLIENT Crabtree Rohrbaugh & Associates

PROJECT NUMBER 1048126.000

PROJECT NAME Solanco District Office Building

PROJECT LOCATION Solanco Road, Quarryville, PA

SUBSURFACE PROFILE A-A'



Distance Along Baseline (ft)



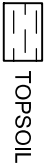
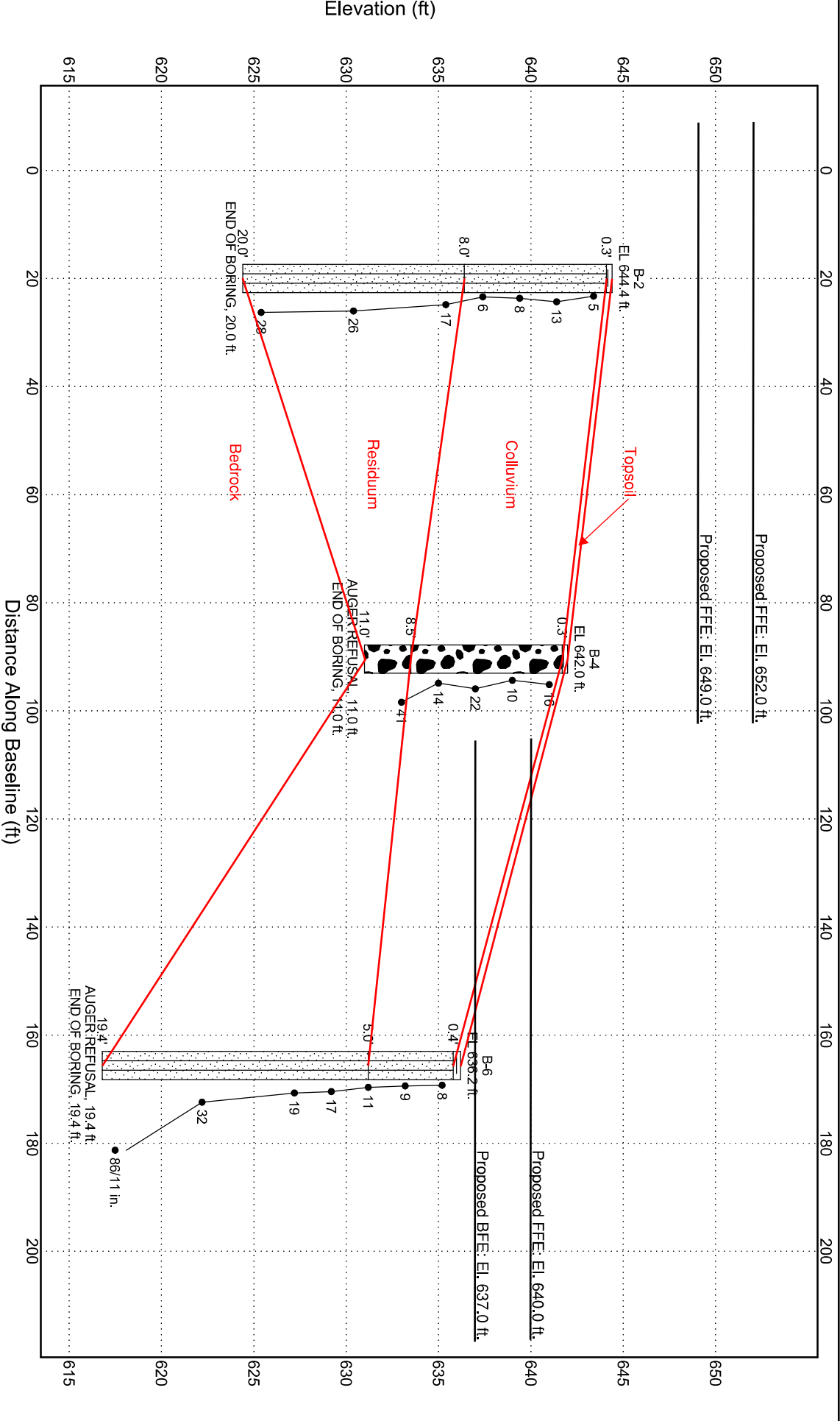
CLIENT Crabtree Rohrbough & Associates

PROJECT NUMBER 1048126.000

PROJECT NAME Solanco District Office Building

PROJECT LOCATION Solanco Road, Quarryville, PA

SUBSURFACE PROFILE B-B'



LOG: BARRYSETT - BARRYSETT DATATemplate.GDT - 6/24/26 10:30 - I:\BICES.COM\WORK\PROJECTS\2026\1048126.000 SOLANCO SD NEW DISTRICT OFFICE\WORK PRODUCT\GEOTECH\3-SUBSURFACE DATA\SOLANCO_TYPEDLOGS.GPJ



BORING NUMBER B-1

PAGE 1 OF 1

CLIENT Crabtree Rohrbaugh & Associates
PROJECT NUMBER 1048126.000
DATE STARTED 6/12/26 COMPLETED 6/12/26
DRILLING CONTRACTOR Enviroprobe / J. Kuni
DRILLING METHOD Cont. / 5.0' Int. SPT, HSA, Autohammer
LOGGED BY MVW CHECKED BY MVW
NOTES _____

PROJECT NAME Solanco District Office Building
PROJECT LOCATION Solanco Road, Quarryville, PA
GROUND ELEVATION 647.6 ft HOLE SIZE 6.0 inches
GROUND WATER LEVELS:
AT TIME OF DRILLING _____
AT END OF DRILLING 6/12/2026, DRY
BEFORE BACKFILLING _____

DEPTH (ft)	SAMPLE DEPTH TYPE & NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	Moisture Content	GRAPHIC LOG	MATERIAL DESCRIPTION	
0								
0	SPT 1	100	2-2-3-3 (5)		M		0.5 TOPSOIL, brown, moist	647.1
2							(SM) Silty fine SAND with fine gravel, orangish brown, tan, white, black, moist, loose, angular, non-plastic, micaceous [COLLUVIUM]	
2	SPT 2	67	2-3-3-5 (6)	SM	M			
4								
4	SPT 3	54	2-4-4-5 (8)					
6								
6	SPT 4	71	5-5-5-8 (10)				6.5 (SM) Silty fine SAND with fine gravel, orangish brown, tan, white, black, moist, medium dense to very dense, angular, non-plastic, micaceous [RESIDUAL]	641.1
8								
8	SPT 5	100	8-11-17-24 (28)					
10				SM	M			
10								
13								
13.6	SPT 6	71	33-50/1"				13.8	633.8

AUGER REFUSAL, 13.8 feet.
END OF BORING, 13.8 feet.

CLIENT Crabtree Rohrbach & AssociatesPROJECT NAME Solanco District Office BuildingPROJECT NUMBER 1048126.000PROJECT LOCATION Solanco Road, Quarryville, PADATE STARTED 6/12/26COMPLETED 6/12/26GROUND ELEVATION 644.4 ftHOLE SIZE 6.0 inchesDRILLING CONTRACTOR Enviroprobe / J. Kuni

GROUND WATER LEVELS:

DRILLING METHOD Cont. / 5.0' Int. SPT, HSA, Autohammer

AT TIME OF DRILLING

LOGGED BY MVWCHECKED BY MVWAT END OF DRILLING 6/12/2026, DRY

NOTES

BEFORE BACKFILLING

LOG: BARRYISETT - BARRYISETT.DAT; TEMPLATE: GDT - 6/24/26 10:30 - IBIACES.COM\WORK\PROJECTS\2026\1048126.000 SOLANCO SD NEW DISTRICT OFFICE\WORK PRODUCT\GEO\TECH\3-SUBSURFACE DATA\SOLANCO_TYPEDLOGS.GPJ

DEPTH (ft)	SAMPLE DEPTH TYPE & NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	Moisture Content	GRAPHIC LOG	MATERIAL DESCRIPTION
0							
0.3	SPT 1	100	3-3-2-5 (5)	SM	M		TOPSOIL, brown, moist (SM) Silty SAND with gravel, orangish brown, tan, reddish brown, moist, loose to medium dense, angular, non-plastic, micaceous [COLLUVIUM]
2.2	SPT 2	100	6-6-7-6 (13)				
4.4	SPT 3	83	3-4-4-3 (8)				
6.6	SPT 4	79	2-2-4-7 (6)				
8.0	SPT 5	100	6-10-7-9 (17)	SM	M		(SM) Silty SAND with gravel, orangish brown, tan, reddish brown, moist, medium dense, angular, non-plastic, micaceous [RESIDUAL]
13.0	SPT 6	100	6-15-11-16 (26)				
15.0							
18.0	SPT 7	100	13-14-14-15 (28)				
20.0							

END OF BORING, 20.0 feet.

624.4

CLIENT Crabtree Rohrbaugh & AssociatesPROJECT NAME Solanco District Office BuildingPROJECT NUMBER 1048126.000PROJECT LOCATION Solanco Road, Quarryville, PADATE STARTED 6/12/26COMPLETED 6/12/26GROUND ELEVATION 643.7 ftHOLE SIZE 6.0 inchesDRILLING CONTRACTOR Enviroprobe / J. Kuni

GROUND WATER LEVELS:

DRILLING METHOD Cont. / 5.0' Int. SPT, HSA, Autohammer

AT TIME OF DRILLING _____

LOGGED BY MVWCHECKED BY MVWAT END OF DRILLING 6/12/2026, DRY

NOTES _____

BEFORE BACKFILLING _____

LOG: BARRYISETT - BARRYISETT.DATATemplate.GDT - 6/24/26 10:30 - I:\BICES.COM\WORK\PROJECTS\2026\1048126.000 SOLANCO SD NEW DISTRICT OFFICE\WORK PRODUCT\GEO\TECH\3-SUBSURFACE DATA\SOLANCO_TYPEDLOGS.GPJ

DEPTH (ft)	SAMPLE DEPTH TYPE & NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	Moisture Content	GRAPHIC LOG	MATERIAL DESCRIPTION	
0								
0	SPT 1	100	3-4-4-5 (8)		M		0.5 TOPSOIL, brown, moist	643.2
2							(SM) Silty SAND with gravel, orangish brown, gray, tan, moist, loose to medium dense, angular [COLLUVIUM]	
2	SPT 2	75	5-10-9-8 (19)	SM	M			
4								
4	SPT 3	58	4-9-12-13 (21)					
5							5.4	638.3
6							(GW) Well-graded GRAVEL with silt and sand, tan, orangish brown, reddish brown, brown, moist to damp, medium dense to very dense, angular to subangular, micaceous [COLLUVIUM]	
6	SPT 4	100	15-18-39-19 (57)					
8								
8	SPT 5	92	13-19-49-37 (68)	GW	M/Da			
10								
13							13.4	630.3
13	SPT 6	100	9-11-15-29 (26)				(SM) Silty SAND with fine gravel, tan, orangish brown, brown, reddish brown, moist, medium dense to very dense, angular, non-plastic, micaceous [RESIDUAL]	
15								
15				SM	M		16.5': Augers grinding	
18								
18	SPT 7	100	17-17-33-26 (50)					
20							20.0	623.7

END OF BORING, 20.0 feet.

LOG: BARRYSETT - BARRYSETT.DATATemplate.GDT - 6/24/26 10:30 - IBIACES.COM\WORK\PROJECTS\2026\1048126.000 SOLANCO SD NEW DISTRICT OFFICE\WORK PRODUCT\GEOTECH\3-SUBSURFACE DATA\SOLANCO_TYPEDLOGS.GPJ



CLIENT	Crabtree Rohrbach & Associates	PROJECT NAME	Solanco District Office Building
PROJECT NUMBER	1048126.000	PROJECT LOCATION	Solanco Road, Quarryville, PA
DATE STARTED	6/12/26	COMPLETED	6/12/26
DRILLING CONTRACTOR	Enviroprobe / J. Kuni	GROUND ELEVATION	644.4 ft
DRILLING METHOD	Cont. / 5.0' Int. SPT, HSA, Autohammer	HOLE SIZE	6.0 inches
LOGGED BY	MVW	CHECKED BY	MVW
NOTES			
GROUND WATER LEVELS:		AT TIME OF DRILLING	
		AT END OF DRILLING 6/12/2026, DRY	
		BEFORE BACKFILLING	

DEPTH (ft)	SAMPLE DEPTH TYPE & NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	Moisture Content	GRAPHIC LOG	MATERIAL DESCRIPTION
0							
0.3	SPT 1	83	4-8-8-6 (16)		M		TOPSOIL, brown, moist
2.2	SPT 2	75	4-4-6-10 (10)				(GW) Well-graded GRAVEL with sand, gray, brown, orangish brown, black, moist to damp, medium dense, angular, micaceous [COLLUVIUM]
4.4	SPT 3	58	5-12-10-9 (22)	GW	M/Da		
6.6	SPT 4	67	10-5-9-30 (14)				
8.8	SPT 5	100	9-20-21-40 (41)				
8.5				GW	M/Da		(GW) Well-graded GRAVEL with sand, gray, brown, orangish brown, black, damp, dense, angular, micaceous, relic bedrock fabric [RESIDUAL]
11.0							

AUGER REFUSAL, 11.0 feet.
END OF BORING, 11.0 feet.

CLIENT Crabtree Rohrbaugh & AssociatesPROJECT NAME Solanco District Office BuildingPROJECT NUMBER 1048126.000PROJECT LOCATION Solanco Road, Quarryville, PADATE STARTED 6/12/26COMPLETED 6/12/26GROUND ELEVATION 639.4 ftHOLE SIZE 6.0 inchesDRILLING CONTRACTOR Enviroprobe / J. Kuni

GROUND WATER LEVELS:

DRILLING METHOD Cont. / 5.0' Int. SPT, HSA, Autohammer

AT TIME OF DRILLING _____

LOGGED BY MVWCHECKED BY MVWAT END OF DRILLING 6/12/2026, DRY

NOTES _____

BEFORE BACKFILLING _____

LOG BARRYSETT - BARRYSETTDATETEMPLATE.GDT - 6/24/26 10:30 - IBIACES.COM\WORK\PROJECTS\2026\1048126.000 SOLANCO SD NEW DISTRICT OFFICE\WORK PRODUCT\GEO\TECH\3-SUBSURFACE DATA\SOLANCO_TYPEDLOGS.GPJ

DEPTH (ft)	SAMPLE DEPTH TYPE & NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	Moisture Content	GRAPHIC LOG	MATERIAL DESCRIPTION	
0								
0	SPT 1	100	4-4-4-4 (8)		M		0.5 TOPSOIL, brown, moist	638.9
2	SPT 2	100	3-3-4-2 (7)	SM	M		(SM) Silty SAND with fine gravel, orangish brown, reddish brown, white, tan, moist, very loose to loose, angular, micaceous [COLLUVIUM]	
4	SPT 3	100	2-2-2-3 (4)					
6	SPT 4	100	4-5-6-5 (11)				6.0 (SM) Silty SAND with fine gravel, orangish brown, reddish brown, white, tan, moist, loose to medium dense, angular, micaceous [RESIDUUM]	633.4
8	SPT 5	100	2-2-3-4 (5)					
10								
13	SPT 6	100	7-6-6-6 (12)	SM	M			
15								
18	SPT 7	100	5-9-9-16 (18)					
20							20.0	619.4

END OF BORING, 20.0 feet.

CLIENT Crabtree Rohrbaugh & AssociatesPROJECT NAME Solanco District Office BuildingPROJECT NUMBER 1048126.000PROJECT LOCATION Solanco Road, Quarryville, PADATE STARTED 6/12/26COMPLETED 6/12/26GROUND ELEVATION 636.2 ftHOLE SIZE 6.0 inchesDRILLING CONTRACTOR Enviroprobe / J. Kuni

GROUND WATER LEVELS:

DRILLING METHOD Cont. / 5.0' Int. SPT, HSA, Autohammer

AT TIME OF DRILLING _____

LOGGED BY MVWCHECKED BY MVWAT END OF DRILLING 6/12/2026, DRY

NOTES _____

BEFORE BACKFILLING _____

DEPTH (ft)	SAMPLE DEPTH TYPE & NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	Moisture Content	GRAPHIC LOG	MATERIAL DESCRIPTION
0							
0.4	SPT 1	100	3-4-4-4 (8)		M		TOPSOIL, brown, moist
2.2	SPT 2	100	5-5-4-7 (9)	SM	M		(SM) Silty SAND with gravel, orangish brown, white (quartz), reddish brown, moist, loose, non- to slightly plastic, angular, micaceous [COLLUVIUM]
4.4	SPT 3	100	4-4-7-6 (11)				
5.0	SPT 4	100	7-7-10-13 (17)				5.0 (SM) Silty SAND with gravel, orangish brown, white (quartz), reddish brown, moist, medium dense to very dense, non- to slightly plastic, angular, micaceous, laminated [RESIDUUM]
6.6	SPT 5	100	3-7-12-16 (19)				
10.0							
13.0	SPT 6	100	16-16-16-19 (32)	SM	M		
15.0							
18.0	SPT 7	100	21-36-50/5"				
19.4							19.4

616.8

AUGER REFUSAL, 19.4 feet.
END OF BORING, 19.4 feet.

LOG BARRYISETT - BARRYISETTDATE TEMPLATE.GDT - 6/24/26 10:30 - IBIACES.COM\WORK\PROJECTS\2026\1048126.000 SOLANCO SD NEW DISTRICT OFFICE\WORK PRODUCT\GEO\TECH\3-SUBSURFACE DATA\SOLANCO_TYPEDLOGS.GPJ

SECTION 011000 - 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 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Related Sections: The following Sections contain requirements that relate to this Section:
 - 1. Division 1 Section "Temporary Facilities & Controls" for requirements for temporary utilities, support facilities, and security and protection.

1.3 PROJECT INFORMATION

- A. The following is information related to the Project.
 - 1. Project Location: New District Administrative Offices at Solanco High School
585 Solanco Road, Quarryville PA 17566
 - 2. Owner: The Solanco School District
121 South Hess Street, Quarryville, PA 17566.
 - 3. Construction Manager: Steve Risk, R. Fore, LLC
PO Box 621, Quarryville, PA 17566
 - 4. Project Consultants:
 - a. Mechanical, Electrical and Plumbing Engineers
Moore Engineering Company
3637 Columbia Avenue, Lancaster, PA 17603
 - b. Structural Engineer
Baker, Ingram & Associates
1547 Oregon Pike, Lancaster, PA 17601
 - c. Civil Engineer
Penn Terra Engineering, Inc.
3904 B Abel Drive, Columbia, PA 17512
 - 5. Project Website-**Cloud Software (Alternate Bid):**
 - a. ~~A project web site Submittal Exchange, administered by the Architect, will be used for purposes of managing communication and documents during the construction stage.~~ **Project cloud software, provided and administered by the GC under alternate bid, will be used for purposes of managing communication and documents during the construction stage, including but not limited to**

construction documents, submittals, RFIs, ASIs, testing and inspection reports, meeting minutes, pay applications, schedules, change order requests, final change orders, and closeout documents.

b. **Software shall be one of the following:**

- 1) **Procore**
- 2) **Newforma**
- 3) **Submittal Exchange**

c. **GC shall include in the alternate bid the costs of all licensing for use of the project cloud software by all Prime Contractors, Sub-contractors, the Owner, Architect and their Consultants, and Owner's Representative. These parties shall not be limited in the number of users that can interface with the software.**

d. **As part of the closeout process, the GC shall provide a complete digital archive record of all construction communication and documents to the Owner, Architect, and Owner's Representative.**

e. **If the GC alternate bid is not accepted, the Architect will provide and administer the project cloud software.**

(ADDENDUM 2)

1.4 WORK COVERED BY CONTRACT DOCUMENTS

- A. The Project consists of a new two-story masonry and steel framed building to support the new district administrative offices. The project is approximately 22,5000 total square feet. The project also consists of construction of two (2) multi-sport turf fields with an alternate bid for a third. For Pennsylvania Department of Education accounting purposes only, costs for construction of the District Administrative Offices portion of the Work shall be indicated separately on the Bid Form.
- B. Generally, the new construction consists of load bearing masonry, steel joists and metal deck, masonry veneer, exterior metal wall panels, standing seam metal roofing with some areas of mechanically attached membrane roofing, aluminum windows and storefront systems, casework and interior finishes along with the specified mechanical, electrical, plumbing and fire protection systems.
- C. The Contract Documents dated July 8, 2026 were prepared for the Project by Crabtree, Rohrbaugh & Associates, 401 E. Winding Hill Road, Mechanicsburg, PA. 17055, phone: (717) 458-0272.

1.5 CONTRACTS

- A. The Project will be constructed under a multiple prime-contracting contract arrangement.
- B. Prime Contracts are separate contracts between the Owner and separate contractors, representing significant construction activities. Each prime contract is performed concurrently

with and closely coordinated with construction activities performed on the Project under other prime contracts. The prime contracts for the Project include:

	CONTRACT NAME	CONTRACT NUMBER	ABBREVIATION
1.	General Construction	3706-1	GC
2.	Site Construction	3706-2	SC
2.	HVAC Construction	3706-3	HVAC
3.	Plumbing Construction	3706-4	PC
4.	Electrical Construction	3706-5	EC

The Owner reserves the right to award additional prime contracts or to perform construction operations with its own forces on portions of the Project.

C. Prime Contract Work: Each Prime Contract is summarized as follows:

1. **General Construction Contract 3706-1:** The General Construction Contract includes architectural, civil, and structural construction, plus other construction operations traditionally recognized as General Construction. This Contract also includes administrative and coordination responsibilities. Work under this prime contract includes, but is not limited to, the following:

- a. All General Construction work indicated on these Contract Documents.
- b. All work as described in the following Specification Sections:

Division 0 – Bidding and Contract Requirements	All Sections
Division 1 – General Requirements	All Sections
Division 2 – Existing Conditions	All General Construction
Division 3 – Concrete	Related Sections and Work
	All Sections
Division 4 – Masonry	All Sections
Division 5 – Metals	All Sections
Division 6 – Wood, Plastics and Composites	All Sections
Division 7 – Thermal and Moisture Protection	All Sections
Division 8 – Openings	All Sections
Division 9 – Finishes	All Sections
Division 10 – Specialties	All Sections
Division 11 – Equipment	All Sections
Division 12 – Furnishings	All Sections
Division 13 – Special Construction	All General Construction
	Related Sections and Work
	All Sections
Division 14 – Conveying Equipment	All Sections
Division 21 and 22 – Plumbing Construction	
see note 'c' below	No Specific Sections
Division 23 – Heating, Ventilating and Air Cond.	
see note 'c' below	No Specific Sections
Division 26, 27 & 28 – Electrical Construction	
see note 'c' below	No Specific Sections
Division 31 – Earthwork	No Specific Sections*

*see note 'c' below

Division 32 – Exterior Improvements

No Specific Sections*

*see note 'c' below

Division 33 – Utilities

No Specific Sections*

*see note 'c' below

- c. Where Specification Sections included in the Scope of this Prime Contract reference provisions of Specification Sections of another Prime Contract, those provisions shall be included in the Work of this Prime Contract as if the referenced Specification Sections are included in their entirety in the Specification Sections for this Prime Contract.

2. **Site Construction Contract 3706-2:** The Site Contract includes site (or civil) construction traditionally recognized as Site Construction. Work under this Prime Contract includes, but is not limited to, the following:

- a. All Site Construction work indicated on these Contract Documents.

Division 0 – Bidding and Contract Requirements

All

Sections Division 1 – General Requirements

All

Sections

Divisions 2 through 14 (General Construction)

No Specific Sections*

*see note 'c' below

Division 21 – Fire Protection Construction

No Specific Sections*

*see note 'c' below

Division 22 – Plumbing Construction

No Specific Sections*

*see note 'c' below

Division 23 – Mechanical Construction

No Specific Sections*

*see note 'c' below

Divisions 26 through 28 (Electrical Construction)

No Specific Sections*

*see note 'c' below

Division 31 – Earthwork Construction

All Sections

Division 32 – Exterior Improvements Construction

All Sections

Division 33 – Utilities Construction

All Sections

- b. Where Specification Sections included in the Scope of this Prime Contract reference provisions of Specification Sections of another Prime Contract, those provisions shall be included in the Work of this Prime Contract as if the referenced Specification Sections are included in their entirety in the Specification Sections for this Prime Contract.

3. **HVAC Construction Contract 3706-3:** The Heating, Ventilating, and Air-Conditioning Contract includes the furnishing and installation of the heating, ventilating, and air-conditioning systems and the temperature control system, plus other construction operations traditionally recognized as HVAC Construction. Work under this prime contract includes, but is not limited to, the following:

- a. All HVAC Construction work indicated on these Contract Documents.

- b. All work described in the following Specification Sections:

Division 0 – Bidding and Contract Requirements	All Sections
Division 1 – General Requirements	All Sections
Divisions 2 through 14 – General Construction	No Specific Sections*
*see note 'c' below	
Divisions 21 and 22 – Plumbing Construction	No Specific Sections*
*see note 'c' below	
Division 23 – Heating, Ventilating and Air Cond.	All Sections
Divisions 26, 27 & 28 - Electrical Construction	No Specific Sections*
*see note 'c' below	
Divisions 31, 32 & 33 – General Construction	No Specific Sections*
*see note 'c' below	

- c. Where Specification Sections included in the Scope of this Prime Contract reference provisions of Specification Sections of another Prime Contract, those provisions shall be included in the Work of this Prime Contract as if the referenced Specification Sections are included in their entirety in the Specification Sections for this Prime Contract.

4. **Plumbing Construction Contract 3706-4:** The Plumbing Contract includes the furnishing and installation of all plumbing equipment, accessories and piping systems, plus other construction operations traditionally recognized as Plumbing Construction. Work under this prime contract includes, but is not limited to, the following:

- a. All Plumbing Construction work indicated on these Contract Documents.
b. All work described in the following Specification Sections:

Division 0 – Bidding and Contract Requirements	All Sections
Division 1 – General Requirements	All Sections
Divisions 2 through 12 - General Construction	No Specific Sections*
*see note 'c' below	
Division 13 – Special Construction	All Plumbing Construction Related Sections and Work
Divisions 14 – Conveying Equipment	No Specific Sections*
*see note 'c' below	
Division 21 – Fire Suppression	All Plumbing Construction Related Sections
Division 22 – Plumbing	All Sections
Division 23 - Heating, Ventilating and Air Cond.	No Specific Sections*
*see note 'c' below	
Divisions 26, 27 & 28 - Electrical Construction	No Specific Sections*
*see note 'c' below	
Divisions 31, 32 & 33 - General Construction	No Specific Sections*
*see note 'c' below	

- c. Where Specification Sections included in the Scope of this Prime Contract reference provisions of Specification Sections of another Prime Contract, those provisions shall be included in the Work of this Prime Contract as if the referenced Specification Sections are included in their entirety in the Specification Sections for this Prime

Contract.

5. **Electrical Construction Contract 3706-5:** The Electrical/Data Networking Contract includes the furnishing and installation of the electrical power distribution, lighting, and special systems, plus other construction operations traditionally recognized as Electrical Construction. Work under this prime contract includes, but is not limited to, the following:

- a. All Electrical Construction work indicated on these Contract Documents.
- b. All work described in the following specification sections.

Division 0 – Bidding and Contract Requirements	All Sections
Division 1 – General Requirements	All Sections
Divisions 2 through 14 - General Construction	No Specific Sections*
*see note 'c' below	
Divisions 21 and 22 – Plumbing Construction	No Specific Sections*
*see note 'c' below	
Division 23 – Heating, Ventilating and Air Cond.	No Specific Sections*
*see note 'c' below	
Division 26 – Electrical	All Sections
Division 27 – Communications	All Sections
Division 28 – Electronic Safety and Security	All Sections
Divisions 31, 32 & 33 – General Construction	No Specific Sections*
*see note 'c' below	

- c. Where Specification Sections included in the Scope of this Prime Contract reference provisions of Specification Sections of another Prime Contract, those provisions shall be included in the Work of this Prime Contract as if the referenced Specification Sections are included in their entirety in the Specification Sections for this Prime Contract.
6. Definition of Extent of Prime Contract Work: The Contract Documents indicate the extent of each prime contract. Except where the Contract Documents contain a more specific description, general names and terminology on the Drawings and in the Specification Sections determine which prime contract includes a specific element of the Project.
7. Local custom and trade union jurisdictional settlements do not control the scope of Work included in each prime contract. When a potential jurisdictional dispute or similar interruption of work is first identified or threatened, the affected prime contracts shall promptly negotiate a reasonable settlement to avoid or minimize the pending interruption and delays.

1.6 PHASED CONSTRUCTION

- A. ~~The Work of this Project shall be conducted in a single phase, however, the building pad needs to be established as early as possible for the General Contractor and other primes to establish their work.~~ **The Work of this Project shall be conducted in a single phase; however, the building pad needs to be established as early as possible for the General Contractor and other primes to establish their work. To facilitate this work, the General Contractor will be responsible in**

establishing the building pad excavation as well as the excavation and installation of the concrete retaining wall and stairs that is located south of the building along the Field Hockey Field. Per revised Drawing C301, Grading Plan, the General contractor will be responsible for the building pad and retaining wall pad and concrete wall, as well as work within 5 feet of the building including concrete pads and frost walls at exterior doors. The General Contractor will be responsible for rough grading the area between the retaining wall and the building and around the building. Coordination with the Site Prime is needed to maintain the spoils of these excavations on site and distribute them as part of the balancing of the site. In addition, the site prime will be responsible for final grading around the building and retaining wall as well the fencing on top of the retaining wall per C201, final grading, the stone base for paving and associated concrete sidewalks at top and bottom of stair and all asphalt pathways adjacent to the building. Once the General Contractor has backfilled enough to establish the retaining wall and building pad, the Site Contractor will be responsible for the work outlined above and on the drawings. The intent is to establish the building pad within 60 days of Notice to Proceed as all other activities of the project including site and utility work proceed. (ADDENDUM 5)

1. Refer to Division 1 Section "Construction Progress Documentation" for the Project Phasing Narrative.

1.7 WORK BY OWNER

- A. General: Cooperate fully with the Owner so Work may be carried out smoothly, without interfering with or delaying Work under this Contract or work by the Owner. Coordinate the Work of this Contract with work performed by the Owner.

1.8 WORK UNDER SEPARATE CONTRACTS

- A. General: Cooperate fully with separate contractors so work on those contracts may be carried out smoothly, without interfering with or delaying Work under this Contract or other contracts. Coordinate the Work of this Contract with work performed under separate contracts.

1.9 PRIME CONTRACTORS USE OF PREMISES

- A. General: During the construction period the prime contractors jointly shall have full use of the premises for construction operations, including use of the site. Each Prime Contractor's use of the premises is limited only by the Owner's right to perform work or to retain other contractors on portions of the Project.
- B. Use of the Site: Limit use of the premises to work in areas indicated. Confine operations to areas within contract limits indicated. Do not disturb portions of the Site beyond the areas in which the Work is indicated.
 1. Owner Occupancy: Allow for Owner occupancy and use by the public.
 2. Driveways and Entrances: Keep driveways and entrances serving the premises clear and available to the Owner, the Owner's employees, users, deliveries and emergency vehicles at all times. Do not use these areas for parking or storage of materials. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.

3. Reference the Site Plan for existing roadway restrictions during construction.
4. Use designated entrance(s) only for deliveries and site access.
5. Schedule deliveries to minimize use of driveways and entrances by construction operations and deliveries shall be made to adhere to the established times permitted during or after school daily operations. All major deliveries shall be identified by each contractor in advance, on a weekly basis and will be coordinated with the district at the weekly planning meeting held by the Owners Representative.
6. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.
7. Schedule deliveries to minimize impact on Owner activities and operations.
8. Prime contractors are solely responsible to review all travel routes through the surrounding neighborhoods and advise their delivery vendors on the acceptable traffic paths relative to vehicle weight restrictions, size of trucking to navigate the roads and any and all other restrictions by other municipal ordinances.
9. All delivered materials not secure or installed inside the building shall be kept in an orderly fashion inside the safety fence and shall be properly protected from damage and other weather events.
10. As the Lead Contractor, the General Contractor is required to establish and maintain an approved emergency evacuation and response plan with Owners Representative, Owner and the Township.

1.10 OCCUPANCY REQUIREMENTS

- A. Partial Owner Occupancy: The Owner may occupy and place installed equipment in completed areas of the building prior to Substantial Completion. Such placing of equipment and partial occupancy shall not constitute acceptance of the total Work.
 1. The Architect will prepare a Certificate of Substantial Completion for each specific portion of the Work to be occupied prior to Owner occupancy.
 2. Obtain a Certificate of Occupancy from local building officials prior to Owner occupancy.
 3. Prior to partial Owner occupancy, mechanical and electrical systems shall be fully operational. Required inspections and tests shall have been successfully completed. Upon occupancy, the Owner will operate and maintain mechanical and electrical systems serving occupied portions of the building.
 4. Upon occupancy, the Owner will assume responsibility for maintenance and custodial service for occupied portions of the building.

1.11 WORK RESTRICTIONS

- A. Work Restrictions, General: Comply with the following restrictions on construction operations.
 1. Comply with limitations on the use of public streets and with other requirements of authorities having jurisdiction.
- B. On-Site Work Hours: Limit on-site Work to normal business working hours of 7 a.m. to 7 p.m., Monday through Saturday, unless otherwise indicated. All Work performed during non-normal

business hours must be coordinated with and approved by the Owner a minimum of 48 hours prior to the Work being performed.

- C. Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by the Owner or others unless permitted under the following conditions and then only after providing temporary utility services according to requirements indicated:
 - 1. Notify the Owner not less than 72 hours in advance of proposed utility interruptions.
 - 2. Obtain the Owner's written permission before proceeding with utility interruptions.
- D. Noise, Vibration, and Odors: Coordinate operations that may result in high levels of noise and vibration, odors or other disruptions to the Owner.
 - 1. Notify the Owner not less than 48 hours in advance of proposed disruptive operations.
 - 2. Obtain the Owner's written permission before proceeding with disruptive operations.

1.12 Site Logistics Plan:

- A. Requirements for use of building and site for specific activities are indicated in Contract Documents and are intended to allow for Owner's continued use of site and facilities during project time, and to allow the Work to proceed uninterrupted during project time.
- B. It is responsibility of each Prime Bidder to review logistics requirements prior to bid to fully understand proposed sequencing, restrictions and durations. There will be no extensions of time on the project due to Contractor not fully understanding logistics requirements.
- C. Deviations from specific logistics requirements may be approved, with prior written approval from Owner, Construction Manager, and Architect and properly coordinated with all Contracts, only if there is no adverse impact on Owner's intended continued use of facility and no additional cost to Owner, or to any Contractor.
- D. Each Contractor shall be responsible to protect, maintain, extend, repair, restore, or otherwise keep functional all building systems in or serving occupied spaces that may be interrupted or disturbed by construction activities or by phasing relocations or restrictions.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION (Not Applicable)

END OF SECTION 011000

SECTION 012200 - UNIT PRICES

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. Section includes administrative and procedural requirements for Unit Prices.
- B. Related Sections: The following Sections contain requirements that relate to this Section:
 - 1. Division 1 Section "Modification Procedures" for procedures for submitting and handling Change Orders.
 - 2. Division 1 Section "Quality Requirements" for general testing and inspecting requirements.

1.3 DEFINITIONS

- A. A Unit Price is an amount incorporated in the Agreement, applicable during the duration of the Work as a price per unit of measurement for materials, equipment, or services, or a portion of the Work, added to or deducted from the Contract Sum by appropriate modification, if the scope of work or estimated quantities of work required by the Contract Documents are increased or decreased.

1.4 PROCEDURES

- A. Unit prices include all necessary material, plus cost for delivery, installation, insurance, applicable taxes, overhead, and profit.
- B. Measurement and Payment: Refer to individual specification sections for work that requires establishment of unit prices. Methods of measurement and payment for unit prices are specified in those Sections.
- C. Owner reserves the right to reject Contractor's measurement of work-in-place that involves use of established unit prices and to have this work measured, at Owner's expense, by an independent surveyor acceptable to Contractor.
- D. List of Unit Prices: A schedule of unit prices is included in Part 3 of this section. Specification sections referenced in the schedule contain requirements for materials described under each unit price.

- E. The intended purpose of Unit Prices is to pre-establish a unit cost for small or incidental scopes of work. If quantities originally contemplated are materially changed so that application of such unit prices will cause a substantial inequity to Owner or Contractor, Owner reserves the right to equitably adjust the Unit Price or to require that the work be performed on a time and material basis.
- F. Unless specifically noted otherwise, all Unit Prices shall be applied to either Add or Subtract Work from the Contract. These specifications may include quantity allowances where the requested Unit Price includes a quantity to be included in the Bid. For example, when a Unit Price says Include 10, Contractor shall include the sum total of 10 of the requested units in their Bid. The applicable cost of that unit on an individual bases would be 1/10th of the sum total. Architect will track the use of all Unit Prices. Contractor shall specifically request application of a Unit Price included in the Bid as a quantity allowance prior to the work being performed. All unused quantities will be credited back to Owner at the end of the Project.
 - 1. The below quantity allowances shall be included in the Base Bid of Contractor. Quantity Allowances are different than Cash Allowances which are not permitted.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF UNIT PRICES

A. GENERAL CONSTRUCTION - UNIT PRICES

GC-1: Bulk Soil Excavation.

- 1. Description: Bulk excavation of unsatisfactory soil and disposal off site as required in accordance with Division 31 Section "Earthwork."
- 2. Unit of Measurement: Cubic yard of soil excavated, based upon survey of volume removed.

GC-2: Borrow Soil Replacement.

- 1. Description: Borrow soil replacement, placement and compaction with satisfactory fill material or engineered fill from off site, as required, in accordance with Division 31 Section "Earthwork."
- 2. Unit of Measurement: Cubic yard of soil excavated, based upon survey of volume removed.

GC-3: Trench Rock Removal and Replacement with Satisfactory Material.

- 1. Description: Classified trench rock removal and disposal off site and replacement, placement and compaction with satisfactory fill material or engineered fill from off site, as required, in accordance with Division 31 Section "Earthwork."

2. Unit of Measurement: Cubic yard of rock excavated, based upon survey of volume removed.

GC-4: Bulk Rock Removal and Replacement with Satisfactory Material.

1. Description: Classified bulk rock removal and disposal off site and replacement, placement and compaction with satisfactory fill material or engineered fill from off site, as required, in accordance with Division 2 Section "Earthwork."
2. Unit of Measurement: Cubic yard of rock excavated, based upon survey of volume removed.

B. SITE CONSTRUCTION – UNIT PRICES

SC-1: Bulk Soil Excavation

1. Description: Bulk excavation of unsatisfactory soil and disposal off site (as required in accordance with Division 31 Section "Earthwork."
2. Unit of Measurement: Cubic yard of soil excavated, based upon survey of volume removed.
3. Quantity Allowance- 150 cubic yards

SC-2: Borrow Soil Replacement

1. Description: Borrow soil replacement, placement and compaction with engineered fill from off site (equivalent structural fill to PennDOT 2a modified), as required, in accordance with Division 31 Section "Earthwork." Poor soil to be removed from the site as part of this unit price
2. Unit of Measurement: Cubic yard of soil excavated and replaced with compacted fill, based upon survey of volume removed.
3. Quantity Allowance- 150 cubic yards

SC-3: Trench Rock Removal and Replacement with Satisfactory Material.

1. Description: Classified trench rock removal and disposal off site and replacement, placement and compaction with satisfactory fill material or engineered fill from off site, as required, in accordance with Division 31 Section "Earthwork."
2. Unit of Measurement: Cubic yard of rock excavated, based upon survey of volume removed.
3. Quantity Allowance- 100 cubic yards

SC-4: Bulk Rock Removal and Replacement with Satisfactory Material

1. Description: Classified bulk rock removal and disposal off site and replacement, placement and compaction with satisfactory fill material or engineered fill from off site, as required, in accordance with Division 31 Section "Earthwork."
2. Unit of Measurement: Cubic yard of rock excavated, based upon survey of volume removed.

3. Quantity Allowance- 100 cubic yards

C. HVAC CONSTRUCTION - UNIT PRICES

HC-1: Chilled Water Pipe Insulation – 1” pipe size.

1. Description: The contract Unit Price to remove, provide, and install pipe insulation on 1” chilled water piping including adjusting hangers and supports. Thickness and installation shall be in according to Division 23 specification sections.
2. Unit of Measurement: Per linear foot.
3. Allowance Quantity: Include one hundred (100) linear feet.

HC-2: Chilled Water Pipe Insulation – 2” pipe size.

1. Description: The contract Unit Price to remove, provide, and install pipe insulation on 2” chilled water piping including adjusting hangers and supports. Thickness and installation shall be in according to Division 23 specification sections.
2. Unit of Measurement: Per linear foot.
3. Allowance Quantity: Include one hundred (100) linear feet.

HC-3: Chilled Water Pipe Insulation – 4” pipe size.

1. Description: The contract Unit Price to remove, provide, and install pipe insulation on 4” chilled water piping including adjusting hangers and supports. Thickness and installation shall be in according to Division 23 specification sections.
2. Unit of Measurement: Per linear foot.
3. Allowance Quantity: Include one hundred (100) linear feet.

HC-4: 1-1/4" HVAC Ball Valve.

1. Description: Provide additional 1-1/4" HVAC ball valve in existing hydronic piping and insulate fitting in accordance with the applicable Division 23 Specifications.
2. Unit of Measurement: Per unit.
3. Quantity Allowance: Include Twenty (12) units.

HC-5: 2" HVAC Ball Valve.

1. Description: Provide additional 2" HVAC ball valve in existing hydronic piping and insulate fitting in accordance with the applicable Division 23 Specifications.
2. Unit of Measurement: Per unit.
3. Quantity Allowance: Include Twelve (12) units.

HC-6: 3" HVAC Ball Valve.

1. Description: Provide additional 3" HVAC ball valve in existing hydronic piping and insulate fitting in accordance with the applicable Division 23 Specifications.
2. Unit of Measurement: Per unit.
3. Quantity Allowance: Include Ten (10) units.

HC-7: 4" HVAC Butterfly Valve.

1. Description: Provide additional 4" HVAC Butterfly valve in existing hydronic piping and insulate fitting in accordance with the applicable Division 23 Specifications.
2. Unit of Measurement: Per unit.
3. Quantity Allowance: Include Eight (8) units.

HC-8: 6" HVAC Butterfly Valve.

1. Description: Provide additional 6" HVAC Butterfly valve in existing hydronic piping and insulate fitting in accordance with the applicable Division 23 Specifications.
2. Unit of Measurement: Per unit.
3. Quantity Allowance: Include Six (6) units.

HC-9: Pre-Mix Propylene Glycol Solution.

1. Description: The contract Unit Price to provide pre-mixed Propylene Glycol Solution according to Division 23 specification sections.
2. Unit of Measurement: Per gallon.
3. Allowance Quantity: Include Fifty (50) gallons.

D. PLUMBING CONSTRUCTION - UNIT PRICES

PC-1: None

E. ELECTRICAL CONSTRUCTION - UNIT PRICES

EC-1: Duplex Receptacle & Wiring.

1. Description: Provide an additional duplex receptacle assembly. Include 20A, 120V duplex receptacle, backbox, cover plate, 3/4" conduit/raceway with 2 #12 conductors and 1 #12 ground wire to a point of authorized connection, necessary wall penetration cutting and patching, terminations and labeling. Perform in accordance with applicable Division 26 Sections and drawing requirements for similar work.
2. Unit of Measurement: Per assembly.
3. Maximum Distance: 75'.
4. Quantity Allowance: Include 10 assemblies.

EC-2: Exit Sign & Wiring.

1. Description: Provide an additional exit sign assembly (luminaire type EX1) including appropriate mounting equipment, 3/4" conduit/raceway with 2#10 conductors and 1 #12 ground wire, necessary wall penetration cutting and patching, terminations and connections. Connect to closest normal/emergency "Exit Sign" circuit. Perform in accordance with applicable Division 26 Sections and drawing requirements for similar work.
2. Unit of Measurement: Per assembly.
3. Maximum Distance: 75'.
4. Quantity Allowance: Include 3 assemblies.

EC-3: Light Fixture & Wiring.

1. Description: Provide an additional light assembly, consisting of luminaire type OR1, CH1, RC1, RC2, RC3, RD1, RD2, or SW1 (Architect's Choice), appropriate mounting equipment, 3/4" conduit with 2 #12 conductors and 1 #12 ground wire to a point of authorized connection, necessary wall penetration cutting and patching, terminations and connections. Perform in accordance with applicable Division 26 Sections and drawing requirements for similar work.
2. Unit of Measurement: Per assembly.
3. Maximum Distance: 30'.
4. Quantity Allowance: Include 8 assemblies.

EC-4: Heat or Smoke Detector & Wiring.

5. Description: Provide an additional duct detector assembly, consisting of detector of type required for application, appropriate backbox (as applicable) and mounting equipment, remote indicating, cabling, conduit, necessary wall penetration cutting and patching, terminations, connections to fire alarm system, and programming required. Perform in accordance with applicable Division 28 Sections and drawing requirements for similar work.
6. Unit of Measurement: Per assembly.
7. Maximum Distance: 100'.
8. Quantity Allowance: Include 2 assemblies.

EC-5: Duct Detector & Wiring.

1. Description: Provide an additional duct detector assembly, consisting of detector of type required for application, appropriate backbox (as applicable) and mounting equipment, remote indicating, cabling, conduit, necessary wall penetration cutting and patching, terminations, connections to fire alarm system, and programming required. Perform in accordance with applicable Division 28 Sections and drawing requirements for similar work.
2. Unit of measurement: Per assembly.

3. Maximum Distance: 100'.
4. Quantity Allowance: Include 2 assemblies.

EC-6: Fire Alarm Pull Station & Wiring.

1. Description: Provide an additional pull station assembly, consisting of pull station device, backbox, cabling, conduit, necessary wall penetration cutting and patching, terminations, connections to fire alarm system, and programming required. Perform in accordance with applicable Division 28 Sections and drawing requirements for similar work.
2. Unit of measurement: Per assembly.
3. Maximum Distance: 100'.
4. Quantity Allowance: Include 2 assemblies.

EC-7: Fire Alarm Audible/Visual Device & Wiring.

1. Description: Provide an additional fire alarm A/V device assembly, consisting of A/V device, backbox, cabling, conduit, necessary wall penetration cutting and patching, terminations, connections to fire alarm system, programming, and additional power supplies required. Perform in accordance with applicable Division 28 Sections and drawing requirements for similar work.
2. Unit of measurement: Per assembly.
3. Maximum Distance: 100'.
4. Quantity Allowance: Include 2 assemblies.

EC-8: Fire Alarm Addressable Device & Wiring.

1. Description: Provide an additional fire alarm addressable device assembly, consisting of addressable device, backbox, cabling, conduit, necessary wall penetration cutting and patching, terminations, connections to fire alarm system, programming, and additional power supplies required. Perform in accordance with applicable Division 28 Sections and drawing requirements for similar work.
2. Unit of measurement: Per assembly.
3. Maximum Distance: 100'.
4. Quantity Allowance: Include 2 assemblies.

EC-9: Data Outlets and Wiring.

1. Description: Provide an additional C2 data outlet as detailed on the Drawings consisting of backbox, jacks, plate, cabling, patch panel port, conduit, all terminations, and labeling; warranty shall be included on this outlet. Perform in accordance with applicable Division 27 Sections and drawing requirements for similar work.
2. Unit of measurement: Per assembly.
3. Maximum Distance: 300'.
4. Quantity Allowance: Include 6 assemblies.

EC-10: Surveillance Camera Outlet and Wiring.

1. Description: Provide an additional surveillance camera outlet as detailed on the Drawings consisting of backbox, jacks, plate, cabling, patch panel port, conduit, all terminations, and labeling; warranty shall be included on this outlet. Perform in accordance with applicable Division 27 Sections and drawing requirements for similar work.
2. Unit of measurement: Per assembly.
3. Maximum Distance: 300'.
4. Quantity Allowance: Include 2 assemblies.

EC-11: 60A Fused Disconnect Switch and Wiring.

1. Description: Provide an additional 3P.60A fused disconnect switch assembly. Include 3P.60A circuit breaker to be installed in panelboard or switchboard, 3P.60A fused disconnect switch, (3) 60A fuses, 3#4 + 1#10 ground in 1-1/4" conduit to a point of authorized connection, necessary wall penetration cutting and patching, terminations and labeling. Perform in accordance with applicable Division 26 Sections and drawing requirements for similar work.
2. Unit of Measurement: Per assembly.
3. Maximum Distance: 200'.
4. Material Allowance Quantity: 2.

END OF SECTION 012200

SECTION 012300 - 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 governing Alternates.

1.3 DEFINITIONS

- A. Definition: An alternate is an amount proposed by a Bidder and stated on the Bid 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 in either 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 the Alternate into the Work. No other adjustments are made to the Contract Sum.
 - 2. Owner, in its sole discretion, may elect to accept or reject any Alternate, either adding to or deducting from the Base Bid accordingly.

1.4 PROCEDURES

- A. Coordination: Modify or adjust affected adjacent Work as necessary to completely and fully integrate that Work into the 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 mentioned as part of the Alternate.
- B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each Alternate. Indicate whether 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 the Schedule contain requirements for materials necessary to achieve the Work described under each alternate.

PART 2 - PRODUCTS (Not Applicable)

PART 3 – EXECUTION

3.1 SCHEDULE OF ALTERNATES

A. GENERAL CONSTRUCTION - ALTERNATES

- GC-1 Unclassified Construction:** State the amount to be ADDED to the Contract to provide all General Construction labor, plant and materials to construct Project with Unclassified Construction. The Base Bid shall be Classified Construction.
- GC-2 Ground Floor Locker Rooms:** State the amount to be ADDED to the Contract to provide all General Construction labor, plant and materials to provide final finishes, lockers, and all required accessories to the ground floor locker rooms as shown in alternate bid drawings. ~~For clarification, the following finishes apply: Floor-Resinous, Base-Resinous, Walls-Epoxy Paint (EPX1), Ceiling: Acoustical Ceiling Tile (ACT5) in rooms 009, 010.~~ **(ADDENDUM 5)**
- GC-3 Cloud Software (Alternate Bid):** State the amount to be ADDED to the Contract to provide a cloud based software, provided and administered by the GC, will be used for purposes of managing communication and documents during the construction stage, including but not limited to construction documents, submittals, RFIs, ASIs, testing and inspection reports, meeting minutes, pay applications, schedules, change order requests, final change orders, and closeout documents. Refer to Addendum 2, Summary of Work for full description. **(Addendum 2).**
- GC-4 Flat roofing areas (Alternate Bid):** State the amount to be added or deducted from the Contract to provide a Tremco Ketone Ethylene Ester (KEE) Roofing system in lieu of the base bid. **(Addendum 4).**

B. SITE CONSTRUCTION – ALTERNATES

- SC-1 Unclassified Construction:** State the amount to be ADDED to the Contract to provide all General Construction labor, plant and materials to construct Project with Unclassified Construction. The Base Bid shall be Classified Construction.
- SC-2 Third Field Location:** State the amount to be ADDED to the Contract to provide all Site Construction labor, plant and materials to provide an additional (3rd) turf field with all required accessories as shown in alternate bid drawings.

SC-3 Additional Paving: State the amount to be ADDED to the Contract to provide all Site Construction labor, plant and materials to provide additional bituminous paving at existing gravel parking lot as shown in the alternate bid drawings.

C. HVAC CONSTRUCTION – ALTERNATES

HC-1 Ground Floor Locker Rooms: State the amount to be ADDED to the Contract to provide all HVAC Construction labor, plant and materials to provide final HVAC ducts, vents, accessories, etc., to ground floor locker rooms as shown in alternate bid drawings.

D. PLUMBING CONSTRUCTION – ALTERNATES

PC-1 Unclassified Construction: State the amount to be ADDED to the Contract to provide all Plumbing Construction labor, plant and materials to construct Project with Unclassified Construction. The Base Bid shall be Classified Construction.

PC-2 Ground Floor Locker Room: State the amount to be ADDED to the Contract to provide all Plumbing Construction labor, plant and materials to provide plumbing fixtures, piping, accessories, etc., to ground floor locker rooms as shown in alternate bid drawings.

E. ELECTRICAL CONSTRUCTION – ALTERNATES

EC-1 Unclassified Construction: State the amount to be ADDED to the Contract to provide all Electrical Construction labor, plant and materials to construct Project with Unclassified Construction. The Base Bid shall be Classified Construction.

EC-2 Ground Floor Locker Rooms: State the amount to be ADDED to the Contract to provide all Electrical Construction labor, plant and materials to provide final electrical layout, accessories, etc., to ground floor locker rooms as shown in alternate bid drawings.

EC-3 Additional Pole Mounted Lighting: State the amount to be ADDED to the Contract to provide all Electrical Construction labor, plant and materials to provide additional pole mounted site lighting fixtures as shown on Drawings.

EC-4 NOT USED.

EC – 5 Multi-purpose turf Field lighting. State the amount to be added to the base bid to provide Musco light poles, associated sound system and speakers to the field lighting at the multi-purpose field (east of the new District Office). Light pole foundations, wiring conduit and handhold boxes are to be included as part of the base bid. At the Field Hockey field, all light pole foundations, light poles, conduit, wiring, controls and sound systems are to be included under the base bid for a complete system installation. **(ADDENDUM 5).**

END OF SECTION 012300

SECTION 012500 - SUBSTITUTIONS

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 handling requests for substitutions made after award of the Contract.
 - 1. Multiple Prime Contracts: Provisions of this Section apply to the construction activities of each prime contractor.
- B. Related Sections: The following Sections contain requirements that relate to this Section:
 - 1. Division 1 Section "Submittals" specifies requirements for submitting the Contractor's Construction Schedule and the Submittal Schedule.

1.3 DEFINITIONS

- A. The Definitions in this Article do not change or modify the meaning of other terms used throughout the Contract Documents.
- B. Substitution: Products considered to be able to perform the same function but that do not necessarily have the same design, arrangement, details, utility requirements and/or dimensions, etc.

Equal: Products of equivalent design, arrangement, details, utility requirements and/or dimensions, etc. produced by a manufacturer not specifically listed in the "Manufacturers" Article of a Specification Section.

- 1. Unless otherwise noted, equal products may be included in the Bid without additional approval by Architect.
- C. The following are not considered to be Substitutions:
 - 1. Revisions to the Contract Documents requested by Owner or Architect
 - 2. Contractor's determination of and compliance with governing regulations and orders issued by governing authorities having jurisdiction

1.4 SUBSTITUTIONS

- A. Substitution Request: Architect will consider requests for substitutions if received within 60 days AFTER Notice to Proceed. Requests received more than 60 days after Notice to Proceed may be considered or rejected at the sole discretion of Architect. Architect will only consider requests for substitution submitted by the prime contractor whose work is involved. No substitution requests will be considered from manufacturer's representatives or product vendors unless submitted through a prime contractor. **No substitution requests will be considered during the bid period. Bids shall be based on products from one of the manufacturers specified or an "equal" product.**
1. Transmit three (3) copies of each request for substitution for consideration. Requests shall be on the Substitution Request Form found at the end of this Section. Requests not meeting this procedural requirement will be returned with **no action taken.**
 2. Identify the Product to be substituted in each request. Include the related Specification Section and Drawing number. Only one substitution request will be considered per Substitution Request Form.
 3. Respond to, and attach all of the following items to the Substitution Request Form:
 - a. Coordination information, including a list of changes or modifications needed to other parts of the work and to construction performed by Owner and/or 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 aesthetic effect
 - c. Product data, including drawings and descriptions of Products
 - d. Samples, where applicable or requested
 - e. A statement indicating the substitution's effect on Contractor's Construction Schedule compared to the schedule without approval of the substitution. Indicate the effect of the proposed substitution on the overall Contract Time.
 - f. Cost information, including a proposal of the net change, if any in the Contract Sum. **Substitutions requests submitted more than 60 days after Notice to Proceed must be accompanied by a credit proposal.**
 - g. Contractor's certification that the proposed substitution conforms to all requirements of the Contract Documents in every respect and is appropriate for the application indicated.
 - h. 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.
 - i. Contractor's Certification that all costs of other prime contractors which are covered by the substitution will be borne by the substituting contractor.
 4. Architect's Action: Architect will notify Contractor of acceptance or rejection of the substitution within two (2) weeks of receipt of the substitution request. If necessary, Architect will request additional information or documentation for evaluation within one (1) week of receipt of a request for substitution.
 - a. Use the Product specified if Architect cannot make a decision on the use of a proposed substitution within the time allocated. Following acceptance of the substitution, Contractor shall submit related information and Product Data in accordance with Division 1 Section "Submittals".

- b. No claim for additional cost or time will be considered as a result of time for considering substitutions by Contractor.
- B. Conditions for Consideration: Architect will receive and consider Contractor's request for substitution when one or more of the following conditions are satisfied, as solely determined by Architect. Requests will be returned with **no action taken** if none of the following conditions are satisfied.
 - 1. Extensive revisions to the Contract Documents are not required.
 - 2. Proposed changes are in keeping with the general intent of the Contract Documents.
 - 3. The specified Product cannot be provided within the Contract Time. Architect will not consider a substitution request if the specified product cannot be provided as a result of Contractor's failure to pursue the work promptly.
 - 4. The requested substitution offers Owner a substantial advantage in cost, time, or energy conservation.
 - 5. The specified Product cannot receive necessary approval by a governing authority.
 - 6. The specified Product cannot be provided in a manner that is compatible with other materials and where Contractor certifies that the substitution will overcome the incompatibility.
 - 7. The specified Product cannot be coordinated with other materials and where Contractor certifies that the proposed substitution can be coordinated.
 - 8. The specified Product cannot provide a warranty required by the Contract Documents and where Contractor certifies that the proposed substitution provides the required warranty.
- C. Conditions for Acceptance: Following evaluation by Architect, and in accordance with a Change Order, Contractor may make a substitution only with the consent of Owner.

END OF SECTION 012500

SUBSTITUTION REQUEST FORM
(Attach to all requests for substitution)

PROJECT NAME AND NUMBER

ARCHITECT



Crabtree, Rohrbaugh & Associates - Architects

401 East Winding Hill Road

Mechanicsburg, PA 17055

Pennsylvania • Virginia • Maryland • West Virginia

SECTION

PARAGRAPH

SPECIFIED ITEM

PROPOSED SUBSTITUTION

The attached includes Product Data, Specifications, Drawings, Photographs, and performance and test data adequate for evaluation of the request. Applicable portions of the data are clearly identified.

The attached data also includes a description of changes to the Contract Documents which the requested Substitution will require for its proper installation.

Contractor certifies that the following paragraphs, unless modified on attachments, are correct:

1. The requested Substitution does not affect the dimensions shown on Drawings.
2. The requested Substitution does not change the building design, including engineering design or detailing.
3. The requested Substitution has no adverse effect (including additional scope of work or cost increase) on any other trades, Contractor's Construction Schedule or any specified Warranty requirements.
4. Maintenance and service parts will be locally available for the requested Substitution.
5. The requested Substitution offers Owner a substantial advantage, in cost, time, or energy conservation.

Contractor further certifies that the function, appearance, quality and warranty of the requested Substitution are equivalent or superior to those of the specified item.

CONTRACTOR'S CERTIFICATION:

Signature: _____ Date: _____

Firm: _____

Address: _____

Proposed Credit: \$ _____

Attachments:

SECTION 012600 - 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 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section specifies administrative and procedural requirements for handling and processing contract modifications.
 - 1. Multiple Prime Contracts: Provisions of this Section apply to the work of each prime contractor.
- B. Related Sections: The following Sections contain requirements that relate to this Section:
 - 1. Division 1 Section "Unit Prices" for administrative requirements governing use of unit prices.
 - 2. Division 1 Section "Submittals" for requirements for Contractor's Construction Schedule.
 - 3. Division 1 Section "Substitutions" for administrative procedures for handling requests for substitutions.

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 Contract Time.

1.4 CHANGE ORDER PROPOSAL REQUESTS

- A. Owner-Initiated Proposal Requests: Architect will issue a detailed description of proposed changes in the Work that will require adjustment to the Contract Sum or 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 as an instruction either to stop work in progress or to execute the proposed change.
 - 2. Within 14 calendar days of receipt of a proposal request, submit a detailed estimate of costs necessary to execute the change to Architect for Owner's review.
 - a. Include a list of quantities of products required and unit costs, with the total amount of purchases to be made. Where requested, furnish survey data to substantiate quantities.

- b. Include the costs of labor and supervision DIRECTLY attributable to the requested change. Contractor's proposal MUST include a detailed breakdown of hours and applicable rates. **Prior to submission of a change request to Owner, Contractor shall be responsible to validate the legitimacy of all time and materials of any work to be performed by a subcontractor or supplier as part of the change.**
 - c. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
 - d. Include a statement indicating the effect the proposed change in the Work will have on the Contract Time.
 - 1) Perform a Time Impact Analysis to demonstrate that the adjustment to Contract Time is the net due to Contractor, and takes into account any contribution Contractor, or other Contractors, may have had.
 - a) **Additional Contract Time will be approved ONLY where as a result of the change, there is a verifiable impact to the Project's critical path and the date of Substantial Completion must be delayed, or a new critical path replaces the previous critical path and the date of Substantial Completion must be delayed.**
 - b) Use available float before requesting an extension of the Contract Time.
- B. Contractor-Initiated Proposal Requests: When latent or unforeseen conditions require modifications to the Contract, Contractor may propose changes by submitting a detailed request for a change to Architect.
- 1. Include a statement outlining the 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 the proposed change on the Contract Sum and Contract Time.
 - a. **Additional Contract Time will be approved ONLY where as a result of the change, there is a verifiable impact to the Project's critical path and the date of Substantial Completion must be delayed, or a new critical path replaces the previous critical path and the date of Substantial Completion must be delayed.**
 - b. Use available float before requesting an extension of the Contract Time.
 - 2. Include a list of quantities of products required and unit costs, with the total amount of purchases to be made. Where requested, furnish survey data to substantiate quantities.
 - 3. Include the costs of labor and supervision DIRECTLY attributable to the requested change. Contractor's proposal MUST include a detailed breakdown of hours and applicable rates. **Prior to submission of a change request to Owner, Contractor shall be responsible to validate the legitimacy of all time and materials of any work to be performed by a subcontractor or supplier as part of the change.**
 - a. Refer to Section 000750, Article 7 for detailed information on calculating costs for proposal requests.

4. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
5. Comply with requirements in Division 1 Section "Substitutions" if the proposed change requires substitution of one product or system for a product or system specified.

1.5 CONSTRUCTION CHANGE DIRECTIVE

- A. Construction Change Directive: When Owner and Contractor disagree on the terms of a Proposal Request, Architect may issue a Construction Change Directive. The Construction Change Directive instructs Contractor to proceed with a change in the Work, for subsequent inclusion in a Change Order.
 1. The Construction Change Directive contains a complete description of the change in the Work. It also designates the method to be followed to determine a change in the Contract Sum or 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 the change, submit an itemized account and supporting data necessary to substantiate cost and time adjustments to the Contract.

1.6 CHANGE ORDER PROCEDURES

- A. Upon Owner's approval of a Proposal Request, Architect will issue a Change Order for signatures of Owner and Contractor.

END OF SECTION 012600

SECTION 012700 - CUTTING AND PATCHING

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 procedural requirements for cutting and patching.
- B. Field verify existing conditions prior to proceeding with cutting and patching. Notify Architect in writing of any conditions that are significantly different from those indicated on Drawings.
- C. Related Sections: The following Sections contain requirements that relate to this Section:
 - 1. Division 1 Section "Project Coordination" for procedures for coordinating cutting and patching with other construction activities, and for required coordination drawings.
 - 2. Division 1 Section "Project Meetings" for meeting procedures for the required Cutting and Patching Conference.
 - 3. Divisions 2 through 33 Sections for specific requirements and limitations applicable to cutting and patching individual parts of Work.
 - 4. Division 7 Section "Through Penetration Firestop Systems" for patching fire-rated construction.

1.3 DEFINITIONS

- A. Cutting: Removal of in-place construction necessary to permit installation or performance of other work.
- B. Patching: Fitting and repair work required to restore surfaces to original conditions after installation of other work.

1.4 GENERAL

- A. Build sleeves and anchors into work for the proper engagement of the Work.
 - 1. General Contractor shall build sleeves and anchors into the Work for the proper engagement of the Work of other prime contractors, provided the sleeves and anchors, along with installation instructions are furnished at the proper time. Those that fail to comply with this provision shall do all necessary cutting and patching at their own expense. Coordinate requirements in accordance with Division 1 Section "Project Coordination", and at the required Cutting and Patching Conference.

- B. Coordinate and provide chases, openings and recesses in new work to avoid cutting and patching to the greatest extent possible.
 - 1. General Contractor shall provide chases, openings (including required lintels) and recesses in new work, as required, provided that other prime contractors furnish the necessary information at the proper time. Those that fail to comply with this provision shall do all necessary cutting and patching at their own expense. Coordinate requirements in accordance with Division 1 Section "Project Coordination", and at the required Cutting and Patching Conference.
- C. Perform all cutting necessary to install Work. Cutting of structural members will not be permitted except by written permission of Architect.
 - 1. Each Prime Contractor shall do all required cutting and patching of existing construction necessary to install their Work. The prime contractor, whose Work necessitates the need for the cutting and patching through existing construction, i.e., a duct penetration through existing roof deck or an existing wall (including required lintels) shall be the responsible contractor to perform the cutting and patching, regardless if incidental or related Work of another prime contractor is shown in the required opening.
- D. Responsibilities for cutting and patching where new roofing work is involved, shall be as follows:
 - 1. New Construction: The General Contractor shall provide and prepare all required openings in new Work, including all wood blocking, for the proper engagement of the Work of the other prime contractors. Upon completion of Work by the other prime contractors affecting roofing work, the General Contractor shall perform all required roofing work. All wood blocking and preparation of roof openings is by the General Contractor.
 - 2. Existing Construction Where New Roofing is Involved: The prime contractor whose Work necessitates the need for cutting and patching of existing roof construction, i.e., a new equipment curb and/or duct penetration through existing roof deck, shall be responsible to perform all required cutting and patching, except for patching of the roofing assembly (roofing membrane, flashing, etc.). The General Contractor shall provide and install support for the edges of the new opening (whether shown on the structural drawings or not), i.e., new steel angle deck supports at the perimeter of the opening. The General Contractor shall also perform all required Work of the new roofing assembly, (wood curb blocking, insulation, roofing membrane, flashing, etc.), as part of their new roofing Work. If the General Contractor's new roofing work is limited to new roofing membrane and flashing only, where the existing insulation is specified to remain, the prime contractor performing the required cutting shall patch the existing insulation as required. Where an existing piece of rooftop mechanical equipment, or a similar item by a prime contractor other than the General Contractor, is being removed requiring closing (patching) of the resulting opening, the prime contractor whose removal work creates the opening shall infill the opening (i.e. new metal or other type roof deck, insulation, etc.) however, the General Contractor shall perform all roofing and flashing work as part of their new roofing work. If the removed item creating the opening to be closed is the General Contractor's (i.e., removal of an existing skylight),

the General Contractor shall do all required patching (infill of the resulting opening), including patching of the roof.

3. Existing Construction Where Existing Roofing is to Remain: The prime contractor whose Work necessitates the need for cutting and patching of existing roof construction, i.e., a new equipment curb and/or duct penetration through existing roof deck, shall be responsible to perform all required cutting and patching, including patching of the existing roofing assembly (insulation, roofing membrane, flashing, etc.). The General Contractor shall provide and install support for the edges of the new opening (whether shown on the structural drawings or not), i.e., new steel angle deck supports at the perimeter of the opening and shall also provide and install all wood blocking required for the new opening (curb blocking, perimeter blocking, etc.). Where an existing piece of rooftop mechanical equipment, or a similar item by any prime contractor, including the General Contractor is being removed requiring closing (patching) of the resulting opening, the prime contractor whose removal work creates the opening shall infill the opening (i.e. new metal or other type roof deck, insulation, etc.) and shall also perform all roofing and flashing work required to patch the resulting hole.

- E. Responsibilities for cutting and patching of existing construction where louvers provided by General Contractor are involved, shall be as follows:

1. New Construction: General Contractor shall provide and prepare required openings in new Work, including all lintels, necessary wood blocking, through-wall flashings, etc. for the proper engagement of Work of other prime contractors. Upon completion of Work by other prime contractors affecting louvers provided by General Contractor, General Contractor shall perform all finishing work required for the openings and shall install the louvers.
2. Existing Construction: General Contractor shall cut and prepare required openings in existing construction for the full thickness of the existing construction, and shall provide and install all lintels, necessary wood blocking, through-wall flashings, etc. for the proper engagement of Work of other prime contractors (i.e. ductwork, etc.) at both interior and exterior walls. Upon completion of Work by other prime contractors affecting louvers provided by General Contractor, General Contractor shall perform all finishing work required for the openings, including, but not limited to, patching (tooth in) all masonry, exterior veneers or finishes of any type and any interior finishes, including joint sealants, and shall install the louvers.

- F. Responsibilities for cutting and patching of existing construction where louvers provided by HVAC Contractor are involved, shall be as follows:

1. Existing Construction: Where HVAC Contractor is responsible to provide louvers, brick vents, etc., HVAC Contractor shall provide all cutting, preparing and patching of all existing construction, including, but not limited to, all lintels, necessary wood blocking, flashings, etc. for the proper engagement of their own Work, and shall install the louvers, brick vents, etc.

- G. Patching and repair at own expense, all surfaces cut into or damaged as a result of Work.

1. Each prime contractor shall patch and repair at their own expense, all existing surfaces cut into, openings left by demolished items (i.e. a through-wall louver opening where

the louver has been removed), or surfaces damaged as a result of their Work using skilled mechanics of the proper trades, and to the satisfaction of Architect. All required patches in both existing and new construction that will be exposed to view in the final finished Work shall be done in a neat and workmanlike manner. Specifically, in exposed masonry construction, patches and infills shall be constructed using full units to the greatest extent possible and all new masonry shall be toothed into the existing coursing both horizontally and vertically.

2. All cutting of new construction that is made necessary by ill-timed work or lack of coordination, shall be patched and repaired by the responsible prime contractor at their own expense, using skilled mechanics of the proper trades, and to the satisfaction of Architect.

1.5 SUBMITTALS

- A. Cutting and Patching Proposal: Submit a Proposal describing procedures at least seven (7) days prior to the required Cutting and Patching Conference described below, requesting approval to proceed. Include the following information:
 1. Describe the extent of cutting and patching, show how it will be performed, and indicate why it cannot be avoided.
 2. Describe anticipated results or changes to in-place construction. Include changes to structural elements and operating components as well as changes in the building's appearance and other significant visual elements.
 3. List Products to be used and firms or entities that will perform the work.
 4. Indicate dates when cutting and patching will be performed.
 5. List utility services and mechanical and electrical 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.
 6. Where cutting and patching involves adding reinforcement to structural elements, submit details and engineering calculations showing integration of reinforcement with original structure.
 7. Means and methods of all cutting and patching work shall be the sole responsibility of the prime contractor performing the cutting and patching.
 8. Obtain approval of Architect of the Cutting and Patching Proposal before proceeding with cutting and patching. Approval does not waive Architect's right to later require removal and replacement of unsatisfactory work.

1.6 QUALITY 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. Mechanical systems, piping and ducts.
4. Fire protection systems.
5. Control systems.
6. Communication systems.
7. Conveying systems
8. Electrical wiring systems.
9. Operating systems of special construction in Division 13 Sections.

- C. Miscellaneous Elements: Do not cut and patch miscellaneous elements or related components in a manner that could change their load-carrying capacity, that results in reducing their capacity to perform as intended, or that results in increased maintenance or decreased operational life or safety. Miscellaneous elements include, but are not limited, to the following:

1. Water, moisture, or vapor barriers.
2. Membranes and flashings.
3. Exterior storefront construction.
4. Equipment supports.
5. Piping, ductwork, vessels, and equipment.
6. Noise and vibration control elements and systems.

- D. Visual Requirements: Do not cut and patch construction exposed on the exterior, in occupied spaces, or in other exposed to view locations in a manner, in Architect's sole opinion, that results in visual evidence of cutting and patching or that would otherwise reduce the building's aesthetic qualities. Remove and replace construction that has been cut and patched in a visually unsatisfactory manner

- E. Cutting and Patching Conference: Meet at Project site with parties involved in cutting and patching, including mechanical and electrical trades. Review the previously submitted Cutting and Patching Proposal and areas of potential interference and conflict. Coordinate procedures and resolve potential conflicts before proceeding with work.

1.7 WARRANTY

- A. 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

2.1 MATERIALS

- A. General: Comply with requirements specified in other Sections.

- B. In-Place Materials: Use materials identical to in-place materials. For exposed surfaces, use materials that visually match in-place adjacent surfaces to the greatest extent possible.
 - 1. If identical materials are unavailable or cannot be used, use materials that in Architect's opinion, when installed, will match the visual and functional performance of in-place materials.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine surfaces to be cut and patched and conditions under which cutting and patching are to be performed.
 - 1. Compatibility: Before patching, verify compatibility with and suitability of substrates, including compatibility with in-place finishes or primers.
 - 2. Proceed with installation only after unsafe or unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Temporary Support: Provide temporary support of work to be cut.
- B. Protection: Protect in-place construction during cutting and patching to prevent damage. Provide protection from adverse weather conditions for portions of Project that might be exposed during cutting and patching operations.
- C. Adjoining Areas: Avoid interference with use of adjoining areas or interruption of free passage to adjoining areas.
- D. Utility Services and Mechanical/Electrical Systems: Where services/systems are required to be removed, relocated, or abandoned, bypass such services/systems before cutting to prevent interruption to occupied areas.

3.3 PERFORMANCE

- A. General: Employ skilled mechanics and workers specifically trained in the trades required to perform cutting and patching. Proceed with cutting and patching at the earliest feasible time and complete cutting and patching operations without delay.
 - 1. Cut in-place construction to provide for installation of other components or performance of other construction, and 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.

1. 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. Cut or drill finished surfaces from the exposed or finished side into concealed surfaces.
 3. Cut concrete and masonry using a cutting machine such as an abrasive saw or a diamond-core drill.
 4. For excavating and backfilling, comply with requirements in applicable Division 31 Sections where required by cutting and patching operations.
 5. For mechanical and electrical services, cut off pipe or conduit in walls or partitions to be removed. Cap, valve, or plug and seal remaining portion of pipe or conduit to prevent entrance of moisture or other foreign matter after cutting.
 6. 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 seams that are invisible. Provide materials and comply with installation requirements specified in other Sections.
1. Test and inspect patched areas after completion to demonstrate integrity of installation.
 2. Restore exposed finishes of patched areas and extend finish into retained adjoining construction in a manner that will eliminate evidence of patching and refinishing.
 3. Where removing walls or partitions extends one finished area into another, patch and repair floor and wall surfaces. Provide a sound, even surface of uniform color and appearance.
 - a. Where patching occurs in a smooth, painted surface, extend final paint coat over entire unbroken surface containing the patch.
 - b. Clean and properly prepare surfaces, piping, conduit, and similar features before applying paint or other finishing materials.
 - c. Restore damaged pipe covering to its original condition.
- D. Clean areas and spaces where cutting and patching are performed. Completely remove paint, mortar, oils, putty and similar materials.

END OF SECTION 012700

SECTION 012800 - FIELD ENGINEERING

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. General: This Section specifies administrative and procedural requirements for field-engineering services including, but not limited to, the following:
 - 1. Professional surveying services
- B. Related Sections: The following Sections contain requirements that relate to this Section:
 - 1. Division 1 Section "Project Coordination" for procedures for coordinating field engineering with other construction activities.

1.3 QUALITY ASSURANCE

- A. Surveyor Qualifications: Engage a land surveyor registered in Pennsylvania, to perform required land-surveying services.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify layout information shown on Drawings in relation to the property survey and existing benchmarks before proceeding to lay out the Work. Locate and protect existing benchmarks and control points. Preserve permanent reference points during construction.
 - 1. Do not change or relocate benchmarks or control points without prior written approval. Promptly report lost or destroyed reference points or requirements to relocate reference points because of necessary changes in grades or locations.
 - 2. Promptly replace lost or destroyed Project control points. Base replacements on the original survey control points.

- B. Establish and maintain a minimum of two (2) permanent benchmarks on the site, referenced to data established by survey control points.
 - 1. Record benchmark locations with horizontal and vertical data on Project Record Documents.
- C. Existing Utilities and Equipment: 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, **including private utilities, and other construction. If the location of known or suspected underground utilities cannot be verified, notify Owner and Architect**
 - 1. Prior to construction, verify the location and invert elevation at points of connection of sanitary sewer, storm sewer, and water-service piping.

3.2 PERFORMANCE

- A. Work from lines and levels established by the property survey. Establish benchmarks and markers to set lines and levels at each story of construction and elsewhere as needed to locate each element of the Project. Calculate and measure required dimensions within indicated or recognized tolerances. Do not scale drawings to determine dimensions.
 - 1. Advise entities engaged in construction activities of marked lines and levels provided for their use.
 - 2. As construction proceeds, check every major element for line, level, and plumb.
- B. Surveyor's Log: Maintain a surveyor's log of control and other survey work. Make this log available for reference.
 - 1. Record deviations from required lines and levels, and advise Architect when deviations that exceed indicated or recognized tolerances are detected. On Project Record Drawings, record deviations that are accepted and not corrected.
 - 2. Upon completion of foundation walls, major site improvements, and other work requiring field-engineering services, prepare a certified survey showing dimensions, locations, angles and elevations of construction and sitework.
- C. Site Improvements: Locate and lay out site improvements, including pavements, stakes for grading, fill and topsoil placement, utility slopes, and invert elevations.
- D. Building Lines and Levels: Locate and lay out batter boards for structures, building foundations, column grids and locations, floor levels, and control lines and levels required for mechanical and electrical work.
- E. Existing Utilities: Furnish information necessary to adjust, move or relocate existing structures, utility poles, lines, services or other appurtenances located in or affected by construction. Coordinate with local authorities having jurisdiction.

END OF SECTION 012800

SECTION 012900 - APPLICATIONS FOR PAYMENTS

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 specifies administrative and procedural requirements governing the Contractor's Applications for Payment.
 - 1. Coordinate the Schedule of Values and Applications for Payment with Contractor's Construction Schedule, Submittal Schedule, and List of Subcontracts.
- B. Related Sections: The following Sections contain requirements that relate to this Section.
 - 1. Division 0 Section "Supplementary General Conditions" for requirements related to Payments and Completion.
 - 2. Division 1 Section "Submittals" for Contractor's Construction Schedule and Submittal Schedule.
 - 3. Division 1 Section "Alternates" for Project alternates to be identified as separate line items on the Schedule of Values.
 - 4. Division 1 Section "Unit Prices" for administrative requirements governing the use of Unit Prices.
 - 5. Division 1 Section "Modification Procedures" for administrative procedures for handling changes to the Contract.

1.3 SCHEDULE OF VALUES

- A. Coordination: Coordinate preparation of the Schedule of Values with preparation of Contractor's Construction Schedule. Each prime contractor shall coordinate preparation of its Schedule of Values for its part of the Work with preparation of Contractors' Construction Schedule.
 - 1. Correlate line items in the Schedule of Values with other required administrative schedules and forms, including:
 - a. Contractor's Construction Schedule.
 - b. Application for Payment forms, including Continuation Sheets.
 - c. List of subcontractors.
 - d. Schedule of Alternates.
 - e. List of Products.
 - f. List of principal suppliers and fabricators.

- g. Schedule of Submittals.
2. Submit the Schedule of Values to Architect at the earliest possible date but no later than 7 days before the date scheduled for submittal of the initial Application for Payment.
 3. Sub-schedules: Where Work is separated into phases requiring separately phased payments, provide sub-schedules showing values correlated with each phase of payment.
- B. Format and Content: Use Project Manual table of contents as a guide to establish the format 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.
 - c. Project number.
 - d. Contractor's name and address.
 - e. Date of submittal.
 2. Arrange the Schedule of Values in tabular form with separate columns to indicate the following for each item listed:
 - a. Related specification section and division.
 - b. Description of Work.
 - c. Name of subcontractor.
 - d. Name of manufacturer or fabricator.
 - e. Name of supplier.
 - f. Change Orders (numbers) that affect value.
 - g. Dollar value.
 - 1) Percentage of Contract Sum to nearest one-hundredth percent, adjusted to total 100 percent.
 3. Provide a breakdown of the Contract Sum in sufficient detail to facilitate continued evaluation of Applications for Payment and progress reports. Coordinate with Project Manual table of contents. Break principal subcontract amounts down into several line items.
 - a. Alternates: Provide a separate line item in the Schedule of Values for each Alternate Bid item that was awarded as part of the Contract.
 - b. Bonds and Insurance: Provide a separate line item for Bonds and Insurance.
 - c. Coordination Drawings: Prime contractors for HVAC, plumbing/fire protection, and electrical shall provide a separate line item for Coordination Drawings.
 - d. Closeout Procedures: Provide a separate line item for Closeout Documents, Operations and Maintenance Manuals, Owner training, and turnover of extra materials/attic stock.
 - e. Commissioning: Provide a separate line item for Commissioning Support.
 4. Round amounts to nearest whole dollar; the 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 permitted by Owner). Include requirements for insurance and bonded warehousing, if required.
6. Provide separate line items on the Schedule of Values for initial cost of the materials, for each subsequent stage of completion, and for total installed value of that part of the Work.
7. Schedule Updating: Update and resubmit the Schedule of Values prior to the next Application for Payment when Change Orders or Construction Change Directives result in a change in the Contract Sum.

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.
- B. Payment-Application Times: Draft applications for progress payments shall be presented to Architect no later than the 25th of each month. Architect will comment and return to Contractor for final submission no later than the first of the following month. 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 Continuation Sheets G703 as the form for Applications for Payment.
- D. Application Preparation: Complete every entry on the form. Include notarization and execution 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 prior to the last day of the construction period covered by the application.
- E. Transmittal: Upon preliminary approval of the draft application by Architect, submit a signed and notarized version of the Application for Payment to Architect via caadmin@cra-architects.com. Architect will input the application into DocuSign for signature and further processing.
 1. Provide a transmittal form listing all attachments and recording appropriate information related to the application in a manner acceptable to Architect.
- F. Initial Application for Payment: Administrative actions and/or submittals that must precede or coincide with submittal of initial Application for Payment, include the following:

1. List of subcontractors.
 2. List of principal suppliers and fabricators.
 3. Schedule of Values.
 4. Contractor's Construction Schedule (preliminary if not final).
 5. Schedule of principal Products.
 6. List of Contractor's staff assignments.
 7. Copies of building permits.
- G. Application for Payment at Substantial Completion: Following issuance of the Certificate of Substantial Completion, submit an Application for Payment.
1. This application shall reflect Certificates of Partial Substantial Completion issued previously for Owner occupancy of designated portions of the Work.
 2. Administrative actions and/or submittals that shall precede or coincide with this application include:
 - a. Occupancy permits and similar approvals.
 - b. Warranties (guarantees) and maintenance agreements.
 - c. Test/adjust/balance records.
 - d. Maintenance instructions.
 - e. Startup performance reports.
 - f. Changeover information related to Owner's occupancy, use, operation, and maintenance.
 - g. Final cleaning.
 - h. Application for reduction of retainage and consent of surety.
 - i. Advice on shifting insurance coverages.
 - j. List of incomplete work, recognized as exceptions to Architect's Certificate of Substantial Completion.
- H. Final Payment Application: Administrative actions and/or submittals that must precede or coincide with submittal of the final Application for Payment include the following:
1. Completion of Project closeout requirements.
 2. Completion of items specified for completion after Substantial Completion.
 3. Ensure that unsettled claims will be settled.
 4. Ensure that incomplete Work is not accepted and will be completed without undue delay.
 5. Transmittal of required Project construction records to Owner.
 6. Removal of temporary facilities and services.
 7. Removal of surplus materials, rubbish, and similar elements.
 8. Change of door locks to Owner's access.

END OF SECTION 012900

SECTION 013100 – PROJECT COORDINATION

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 supervisory requirements necessary for coordinating construction operations on Project to be collectively fulfilled by Contractor including, but not limited to, the following:
 - 1. General project coordination procedures.
 - 2. Conservation.
 - 3. Coordination drawings.
 - 4. Administrative and supervisory personnel.
 - 5. Cleaning and protection.
- B. Where applicable, each Prime Contractor shall participate in these coordination requirements. General Contractor shall be assigned the responsibility for overall coordination.
- C. Related Sections: The following Sections contain requirements that relate to this Section:
 - 1. Division 1 Section "Field Engineering" specifies procedures for field-engineering services, including establishment of benchmarks and control points.
 - 2. Division 1 Section "Cutting and Patching" for cutting and patching procedures. Division 1 Section "Project Meetings" for progress meetings, coordination meetings, and preinstallation conferences.
 - 4. Division 1 Section "Submittals" for preparing and submitting Contractor's Construction Schedule.
 - 5. Division 1 Section "Contract Closeout" for coordinating contract closeout procedures.
 - 6. Division 4 Section "Unit Masonry Assemblies" for Masonry Preinstallation Shop Drawing requirements.
 - 7. Division 21 through 28 Sections for specific coordination drawing requirements for mechanical and electrical installations.

1.3 GENERAL PROJECT COORDINATION PROCEDURES

- A. General Contractor is designated as Lead Prime Contractor for Project. Each Prime Contractor shall coordinate its construction activities with those of the other prime contractors and other entities involved to assure efficient and orderly installation of each part of the Work. Each Prime Contractor shall coordinate its operations with operations included under different Sections of the Specifications that depend on each other for proper installation, connection, and operation.

1. Each Prime Contractor shall schedule its construction operations in the 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. Where availability of space is limited, each Prime Contractor shall coordinate installation of different components with other prime contractor to assure maximum accessibility for required maintenance, service, and repair.
 3. Each Prime Contractor shall make adequate provisions to accommodate items scheduled for later installation.
- B. Each Prime Contractor shall participate in these coordination requirements. Each Prime Contractor shall advise Owner and Architect of overall coordination progress. When necessary, such as in congested spaces where multiple prime contracts are involved, the prime contractors shall meet with Owner and Architect and other prime contractors involved to resolve critical coordination issues. Specific responsibilities are assigned to each prime contractor.
- C. Owner will not consider requests for additional time or compensation associated with direction provided to prime contractors in response to coordination, questions, or disputes.
- D. Where necessary, prepare memoranda for distribution to each party involved, outlining special procedures required for coordination. Include such items as required notices, reports, and attendance at meetings.
1. Prepare similar memoranda for Owner and separate contractors where coordination of their work is required.
- E. Administrative Procedures: Each Prime Contractor shall coordinate scheduling and timing of its required administrative procedures with other construction activities and activities of other prime contractors to avoid conflicts and assure orderly progress of the Work. Such administrative activities include, but are not limited to, the following:
1. Preparation of schedules.
 2. Installation and removal of temporary facilities.
 3. Delivery and processing of submittals.
 4. Progress meetings.
 5. Project closeout activities.

1.4 CONSERVATION

- A. Each Prime Contractor shall coordinate construction activities to assure that operations are carried out with consideration given to conservation of energy, water and materials.
1. Salvage materials and equipment involved in performance of, but not actually incorporated in, the Work.

1.5 COORDINATION DRAWINGS

- A. Prepare Coordination Drawings where careful coordination is needed for installation of products and materials fabricated and/or installed by separate entities. Prepare Coordination

Drawings where limited space availability necessitates efficient installation of different components.

- B. Coordination Drawings shall be completed **within 45 calendar days of the date of Notice to Proceed**. Prime Contractors shall include preparation of Coordination Drawings in their Contract Price and shall indicate the value of this effort as a line item on their Schedule of Values
1. Refer to Division 21 through 28 Sections for specific Coordination Drawing requirements for mechanical and electrical installations.
 2. Responsibility: All Prime Contractors shall participate in the preparation of coordination drawings. HVAC Contractor shall have the lead role in this process and shall initiate Coordination Drawings by producing preliminary 1/4-inch scale drawings, by building section, in electronic format. Electronic media, in the format, and to the terms specified in Paragraph 3.12 of Section 000750 Supplementary General Conditions, is available from Architect. **HVAC Contractor shall be responsible for all costs to obtain the required sheets for Coordination Drawings.** This media will include walls, partitions, structural elements, finished floor elevations, ductwork, piping, and equipment locations and layout. The preliminary Coordination Drawings shall be provided to the other Prime Contractors, one at a time, in an order established by General Contractor, for inclusion, layout and interface of all relative equipment, material and penetrations associated with the Work.
 3. Upon completion of the preliminary Coordination Drawings, HVAC Contractor shall schedule a coordination meeting with all Prime Contractors in order to resolve all interference issues. This meeting shall be held in accordance with Division 1 Section "Project Meetings". Altering structural elements, bearing elevations, established dimensions, partition locations and ceiling/bulkhead heights or any other aesthetic effect is prohibited without the consent of Architect.
 4. Upon resolution of all interference **issues**, HVAC Contractor shall revise the Coordination Drawings as required and upon acceptance by all Prime Contractors, HVAC Contractor shall issue a set of final Coordination Drawings to all Prime Contractors, Owner and Architect.
 5. Utility sleeve locations through foundation walls shall be coordinated in the field by the involved Prime Contractors. Utility sleeve locations may be included on the Coordination Drawings only to the extent to establish piping entry locations.

1.6 ADMINISTRATIVE AND SUPERVISORY PERSONNEL

- A. General: In addition to its full-time on-site Project Superintendent, each Prime Contractor shall provide other administrative and supervisory personnel as required for proper performance of the Work. Include special personnel required for coordination of operations with other Prime Contractors.
- B. Project Coordinator: Contractor for General Construction shall provide a full-time Project Coordinator, experienced in administration and supervision of building construction, including mechanical and electrical work. The Project Coordinator shall be authorized to act as the coordinator of construction activities between the separate Prime Contracts.

1. Construction activities requiring coordination by the Project Coordinator include, but are not limited to, the following:
 - a. Scheduling and sequencing the Work.
 - b. Sharing access to work spaces.
 - c. Installations.
 - d. Protection of each other's work.
 - e. Cutting and patching.
 - f. Selections for compatibility.
 - g. Coordination drawings.
 - h. Inspections and tests.
 - i. Temporary services and facilities.
 - j. Daily project clean up activities.
- C. Plumbing, HVAC and Electrical Representative: The Plumbing, HVAC and Electrical Contractors shall provide representatives experienced in coordination of mechanical and electrical construction. This experience shall include coordination of the type of operations required for this Project.
- D. Staff Names: Within 15 calendar days of commencement of construction operations, each Prime Contractor shall submit a list of its principal staff assignments, including the Superintendent and other personnel in attendance at the Project Site. Identify individuals and their duties and responsibilities and provide their addresses and telephone numbers.
 1. Post copies of the list in the Project meeting room, the temporary field office, and at each temporary telephone.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION

3.1 GENERAL COORDINATION PROVISIONS

- A. Inspection of Conditions: Prime Contractor involved shall require the installer of each major component to inspect both the substrate and conditions under which work is to be performed. Do not proceed until unsatisfactory conditions have been corrected in an acceptable manner.

3.2 CLEANING AND PROTECTION

- A. Clean and protect construction in progress and adjoining materials in place during handling and installation. Apply protective covering where required to assure protection from damage or deterioration until Substantial Completion.
- B. Clean and provide maintenance on completed construction as frequently as necessary through the remainder of the construction period. Adjust and lubricate operable components to assure operability without damaging effects.

- C. Limiting Exposures: Each Prime Contractor shall supervise its 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. Where applicable, such exposures include, but are not limited to, the following:

1. Thermal shock.

2. Excessively high or low humidity.
3. Air contamination or pollution.
4. Water or ice.
5. Solvents.
6. Chemicals.
7. Light.
8. Radiation.
9. Puncture.
10. Abrasion.
11. Heavy traffic.
12. Soiling, staining, and corrosion.
13. Bacteria.
14. Rodent and insect infestation.
15. Combustion.
16. Electrical current.
17. High-speed operation.
18. Improper lubrication.
19. Unusual wear or other misuse.
20. Contact between incompatible materials.
21. Destructive testing.
22. Misalignment.
23. Excessive weathering.
24. Unprotected storage.
25. Improper shipping or handling.
26. Theft.
27. Vandalism.

Any work subjected to such exposures shall be tested, corrected and/or replaced at the expense of Contractor, in accordance with Division 0 Section "General Conditions of the Contract for Construction".

- D. Daily project clean up shall be the responsibility of each Prime Contractor.

END OF SECTION 013100

SECTION 013150 - PROJECT MEETINGS

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 specifies administrative and procedural requirements for project meetings, including, but not limited to, the following:
 - 1. Preconstruction conferences.
 - 2. Preinstallation conferences.
 - 3. Progress meetings.
 - 4. Coordination meetings.
- B. Related Sections: The following Sections contain requirements that relate to this Section:
 - 1. Division 1 Section "Project Coordination" for procedures for coordinating project meetings with other construction activities.
 - 2. Division 1 Section "Submittals" for submitting Contractor's Construction Schedule.

1.3 PRECONSTRUCTION CONFERENCE

- A. Within 15 calendar days of the date of Notice to Proceed, Architect shall schedule and conduct a Preconstruction Conference at a time convenient to Owner. The Preconstruction Conference will be held at Project Site or another convenient location. The purpose of this meeting will be to review the responsibilities and other requirements of Prime Contractors.
- B. Attendees: Authorized representatives of Owner, Architect and their consultants, Contractor and its Superintendent, major subcontractors, manufacturers and suppliers. All participants at the Preconstruction Conference shall be familiar with Project and authorized to conclude matters relating to the Work.
- C. Agenda: Discuss items of significance including the following:
 - 1. Construction schedule.
 - 2. Critical work sequencing.
 - 3. Designation of responsible personnel.
 - 4. Procedures for processing field decisions and Change Orders.
 - 5. Procedures for processing Applications for Payment.
 - 6. Distribution of Contract Documents.
 - 7. Submittal of Shop Drawings, Product Data, and Samples.

8. Preparation of record documents.
9. Use of the premises.
10. Parking availability.
11. Office, work, and storage areas.
12. Equipment deliveries and priorities.
13. Safety procedures.
14. First aid.
15. Security.
16. Daily clean up activities.
17. Working hours.

1.4 PREINSTALLATION CONFERENCES

- A. Responsible Prime Contractor shall conduct a preinstallation conference at Project Site before each construction activity that requires coordination with other construction and as required by specific specification Sections.
- B. Attendees: The 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.
 1. Review the progress of other construction activities and preparations for the particular activity under consideration at each preinstallation conference, including requirements for the following:
 - a. Contract Documents.
 - b. Options.
 - c. Related Change Orders.
 - d. Purchases.
 - e. Deliveries.
 - f. Shop Drawings, Product Data, and quality-control samples.
 - g. Review of mockups.
 - h. Possible conflicts.
 - i. Compatibility problems.
 - j. Time schedules.
 - k. Weather limitations.
 - l. Manufacturer's recommendations.
 - m. Warranty requirements.
 - n. Compatibility of materials.
 - o. Acceptability of substrates.
 - p. Temporary facilities.
 - q. Space and access limitations.
 - r. Governing regulations.
 - s. Safety.
 - t. Inspecting and testing requirements.
 - u. Required performance results.
 - v. Recording requirements.

w. Protection.

2. Record significant discussions and agreements and disagreements of each conference, and the approved schedule. Promptly distribute a record of the meeting to everyone concerned, including Owner and Architect.
3. Do not proceed with the installation if the conference cannot be successfully concluded. Initiate whatever actions are necessary to resolve impediments to performance of Work and reconvene the conference at the earliest feasible date.

1.5 PROGRESS MEETINGS

- A. Architect shall conduct progress meetings at Project Site at bi-weekly intervals, unless otherwise needed.
- B. Attendees: In addition to representatives of Owner and Architect, **it is mandatory that each prime contractor be represented at all Progress Meetings**. All participants at the conference shall be familiar with Project and authorized to conclude matters relating to the Work.
- C. Agenda: Review and correct or approve minutes of the previous progress meeting. Review other items of significance that could affect progress. Include topics for discussion as appropriate to the status of Project.
 1. Contractor's Construction Schedule: Review construction progress since the last meeting. Determine where each activity is in relation to Contractor's Construction Schedule, whether on time or ahead or behind schedule. Discuss whether schedule revisions are required to insure that current and subsequent activities will be completed within the Contract Time.
 2. Review the present and future needs of each entity present, including the following:
 - a. Interface requirements.
 - b. Time.
 - c. Sequences.
 - d. Status of submittals.
 - e. Deliveries.
 - f. Off-site fabrication problems.
 - g. Access.
 - h. Site utilization.
 - i. Temporary facilities and services.
 - j. Hours of work.
 - k. Hazards and risks.
 - l. Daily clean up activities.
 - m. Quality and work standards.
 - n. Change Orders.
 - o. Documentation of information for payment requests.
- D. Reporting: Minutes will be distributed by Architect at least 3 calendar days prior to the next meeting to each party present and to parties who should have been present.

1. Schedule Updating: Refer to Division 1 Section "Construction Progress Documentation" for requirements. Issue the revised schedule concurrently with the report of each meeting.

1.6 COORDINATION MEETINGS

- A. Lead Prime Contractor shall conduct coordination meetings a minimum of once every two weeks. Project coordination meetings are in addition to specific meetings held for other purposes, such as regular progress meetings and special preinstallation meetings. **It is mandatory that each prime contractor be represented at all Coordination Meetings.**
- B. Record meeting minutes and distribute copies to everyone in attendance and to others affected by decisions or actions resulting from each meeting. In addition, Owner and Architect shall receive copies of these meeting minutes.

PART 2 - PRODUCTS (Not Applicable)

PART 3 – EXECUTION (Not Applicable)

END OF SECTION 013150

SECTION 013200 - 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 1 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. Owner's Preliminary Project Phasing Narrative
 - 2. Contractor's Construction Schedule
 - 3. Daily construction reports
 - 4. Field condition reports
 - 5. Special reports
- B. Related Sections: The following Sections contain requirements that relate to this Section:
 - 1. Division 1 Section "Project Coordination"
 - 2. Division 1 Section "Applications for Payment" for submitting the Schedule of Values
 - 3. Division 1 Section "Project Meetings" for submitting and distributing meeting and conference minutes
 - 4. Division 1 Section "Quality Requirements" for submitting a schedule of tests and inspections
 - 5. Division 1 Section "Project Record Documents" for submitting Project Record Documents at Project closeout
 - 6. Division 1 Section "Submittals" for procedural requirements regarding the Submittal Schedule
 - 7. Division 1 Section "Temporary Facilities & Controls" for the various stages of Construction relative to temporary heat which must be identified on the Contractor's Construction Schedule.

1.3 DEFINITIONS

- A. Contractor: The term "Contractor", as used throughout this Section, applies to each Contractor entering into a Contract with the Owner.
- B. 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 dates.
 2. Predecessor activity is an activity that must be completed before a given activity can be started.
- C. Critical Path Method (CPM): 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 the Project.
- D. Critical Path: The longest continuous chain of 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 is not for the exclusive use or benefit of either the Owner or the Contractor. Extensions of the time to interim milestone dates or the Contract Completion Date, under the Contract, will be granted only to the extent that equitable time adjustment to the activity or activities affected by the Contract Modification or delay, exceeds the total float of the affected or subsequent paths and extends any interim milestone date or the Contract Completion date.
 2. Free float is the amount of time an activity can be delayed without adversely affecting the early start of the following 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.
- 1.4 SUBMITTALS
- A. Qualification Data: For firms and persons specified in "Quality Assurance" Article and in-house scheduling personnel to demonstrate their capabilities and experience. Include lists of completed projects with project names and addresses, names and addresses of Architects and Owners, and other information specified.
- B. Preliminary Construction Schedule: Submit one (1) copy in an acceptable format as determined by the Architect.

- C. Contractor's Construction Schedule: Submit one (1) paper Gantt Chart and one (1) electronic copy in its native format.
- D. CPM Reports: The Contractor's Construction Schedule shall be a CPM Schedule. Concurrent with the CPM Schedule, submit three (3) printed copies of each of the following computer-generated reports. The format for each activity in the reports shall contain an activity number, activity description, original duration, remaining duration, early start date, early finish date, late start date, late finish date and total float.
 - 1. Activity Report: List of all activities sorted by activity number and then early start date, or actual start date if known.
 - 2. Logic Report: List of preceding and succeeding activities for all activities, sorted in ascending order by activity number and then early start date, or actual start date if known.
 - 3. Total Float Report: List of all activities sorted in ascending order of total float.
- E. Daily Construction Reports: Submit two (2) copies at weekly intervals.
- F. Field Condition Reports: Submit two (2) copies at time of discovery of differing conditions.
- G. Special Reports: Submit two (2) copies at time of unusual event.

1.5 QUALITY ASSURANCE

- A. Scheduling Professional Qualifications: The Contractor's Construction Schedule shall be composed and maintained by an individual having been employed for at least five years primarily as a CPM scheduler or an individual certified as a Planning and Scheduling Professional (PSP) by the Association for the Advancement of Cost Engineering (AACE). Documentation supporting compliance with these requirements shall be supplied to the Architect for review and acceptance.
- B. Prescheduling Conference: Conduct conference at the Project site to comply with requirements in Division 1 Section "Project Meetings". Review methods and procedures related to the Preliminary Construction Schedule and Contractor's Construction Schedule, including, but not limited to, the following:
 - 1. Discuss constraints, including phasing, work stages, area separations and interim milestones.
 - 2. Review delivery dates for Owner-furnished products.
 - 3. Review time required for review of submittals and resubmittals.
 - 4. Review requirements for tests and inspections by independent testing and inspecting agencies.
 - 5. Review time required for completion and startup procedures.
 - 6. Review and finalize the list of construction activities to be included in the schedule.
 - 7. Review submittal requirements and procedures.
 - 8. Review procedures for updating schedules.

1.6 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 the Contractor's Construction Schedule with the Schedule of Values, List of Subcontracts, Submittal Schedule, Progress Reports, Applications for Payment 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.

1.7 OWNER'S PRELIMINARY PROJECT PHASING NARRATIVE

- A. Except for the normal summer and holiday schedules, the Solanco High School site will remain in operation and will remain open to the public in accordance with the following description of the intended work phase. It is understood that this phasing plan is preliminary in nature and is not intended to represent all of the activities that may need to take place in order to complete construction within the Contract Time.
- B. The intent is that the building pad is established as soon as possible after erosion and sediment controls are placed so that the General Contractor can establish work on the building and related area with other related Primes. The Site Contractor can proceed with all site related activities outlined on the site drawings, but must provide timely site updates to coincide with the general schedule of the overall project that is maintained by the General Contractor. Substantial Completion of the overall Schedule is subject to the provisions of Article 8 – "Time" of the General Conditions.
- C. Total Project Duration: **454 Calendar Days (Substantial Completion)**

1.8 CONTRACTOR'S CONSTRUCTION SCHEDULE, GENERAL

- A. The Work under the Contract Documents shall be planned, scheduled, executed, reported and accomplished using the Critical Path Method, in work days (excluding legal holidays). The provisions of the General Requirements and the directions of the Lead Contractor are to be followed by all Contractors in scheduling their construction activities. The scheduling services of the Lead Contractor are part of their Contract with the Owner, but nothing herein relieves the obligations of the other Prime Contractors to schedule their own construction activities and nothing herein alters the obligation of the Lead Contractor to resolve all supervision, coordination and scheduling issues between and among the Lead Contractor and other Prime Contractors.
- B. The primary objectives of the requirements of this Section are: (1) to insure adequate planning and execution of the Work by the Contractor by having a schedule of construction activities for all of the Prime Contractors and their subcontractors in initial form covering the first 120 days of construction within thirty (30) days of the Notice to Proceed and in final form within seventy-five (75) days of the Notice to Proceed; (2) to assist the Lead Contractor in evaluating progress

of the Work; (3) to provide for optimum coordination by Contractors of their trades and subcontractors, and of their Work with the work or services provided by other Prime Contractors, all under the direction and supervision of the Lead Contractor; (4) to permit the timely prediction or detection of events or occurrences which may affect the timely prosecution of the Work; and (5) to provide a mechanism or tool for use by the Lead Contractor and other Prime Contractors in monitoring any actions of Contractors which may be required to comply with the requirements of the Contract Documents relating to the completion of the various portions of the Work by the Completion Dates specified in the Contract Documents.

- C. Each Prime Contractor is responsible for determining the sequence and logic of activities, the time estimates of the detailed construction activities and the means, methods, techniques and procedures to be employed with regard to their portion of the Work. The Contractor's Construction Schedule shall represent the Contractor's best judgment of how they shall prosecute the Work in compliance with the requirements of the Contract Documents. Each Prime Contractor shall ensure that the Construction Schedule is current and accurate and is properly and timely monitored, updated and revised as Project conditions and the Contract Documents may require, and as may be directed by the Lead Contractor.
- D. Each Prime Contractor shall consult with their major subcontractors relating to the preparation of their construction plan and construction schedule. Major subcontractors shall receive copies of those portions of the Contractor's Construction Schedule which relate to their Work and shall be continually advised of any updates or revisions to the Contractor's construction schedule as the Work progresses. When the Contractor submits their construction schedule to the Lead Contractor or makes any proposed updates or revisions to such schedule, it shall be concluded by the Owner and Lead Contractor that the Contractor has consulted with and has the concurrence of their major subcontractors. Each Prime Contractor shall be solely responsible for ensuring that all subcontractors comply with the requirements of the Contractor's Construction Schedule for their portions of the Work.
- E. Each Prime Contractor shall provide the basic data as required by the Lead Contractor relating to activities, durations and sequences as part of the Contractor's draft of the Contractor's Construction Schedule. This data shall reflect the Contractor's actual construction plan for the Project, and shall fully comply with all requirements of the Contract Documents.
- F. The Lead Contractor shall provide, at no cost to the other Prime Contractor's, the drafting and computerization of the Contractor's data for the Contractor's Initial Construction Schedule, in accordance with the requirements of the Contract Documents. Each Contractor shall submit their data in a form or format acceptable to the Lead Contractor.
- G. To carry out the intent of this Section, each Prime Contractor agrees that the orientation session, as described in Subparagraph 1.9.B, the provision of drafting and computerization services by the Lead Contractor, and the reasonable exercise of any rights under this Section by the Lead Contractor, or Owner shall not be grounds for any claim against the Owner, the Lead Contractor or any representative of the Owner by the Contractor or any of their subcontractors or sub-subcontractors, alleging interference, lack of cooperation, delay, disruption, harassment, negligence or hindrance by the Owner or Lead Contractor, and the Contractor covenants not to sue therefore.

- H. It is understood and agreed that the Contractor's Construction Schedule is to represent the Contractor's best plan and estimate for the Work; however, the Contractor acknowledges that the Contractor's Construction Schedule may have to be revised from time-to-time as the Project proceeds. The Contractor further acknowledges and agrees that the Owner and Lead Contractor do not guarantee that: (1) The Contractor can start work activities on the "early start" or "late start" dates or complete work activities on the "early finish" or "late finish" dates shown in the schedule, or as same may be updated or revised; (2) The Contractor can proceed at all times in the sequence established by the Contractor's Construction Schedule, or that the Contractor can rely upon the utilization of only the resources and manpower they initially plan for the performance of the Work; (3) The Contractor's Construction Schedule shall not have to be modified in order to obtain the agreement of any Prime Contractors to the schedule; or (4) The Contractor's Construction Schedule shall not have to be modified or changed by direction of the Lead Contractor. Any changes, modifications or adjustments made by the Contractor to the Contractor's Construction Schedule shall be in full compliance with all requirements of the Contract Documents.
- I. The Contractor acknowledges and agrees that their Construction Schedule must be flexible in order to accommodate and allow for their coordination with the construction activities of the other Prime Contractors.
- J. The review by the Lead Contractor of the Contractor's Construction Schedule or any other schedule or plan of construction of the Contractor, does not constitute an agreement by the Owner or Lead Contractor of any start or finish date in the schedule or specific durations or sequences for activities of the Contractor; further, nothing herein shall be construed as modifying or changing, or excusing the performance of the Contractor of required portions of the Work by the Completion Dates as set forth in the Contract Documents.
- K. The Completion Dates set forth in the Contract Documents represent only the major items of Work and may or may not include interface dates with the construction activities of the other Prime Contractors or others. Completion Dates are Contract requirements and are the essence to the Contract Documents and to the coordination of the Work by the Contractor. Completion Dates represent the latest allowable completion time for those portions of the Work to which each Completion Date relates. The Completion Dates are not intended to be a complete listing of all Work under the Contract Documents or of all interfaces with work performed by other Prime Contractors or others. The Contractor shall determine the time requirements for all such interfaces and shall be responsible for planning, scheduling and coordinating the Work in order to complete in accordance with those requirements.
- L. Should the Contractor intend or plan to complete the Work, or any portion thereof, earlier than any applicable Completion Date or the Contract Time, the Contractor shall give timely and reasonable Notice of this fact to the Lead Contractor. The Lead Contractor shall have the discretion to agree to or reject such early completion plan by the Contractor, subject to the rights of the Contractor as stated in these specifications. The Lead Contractor shall have no duty or obligation to agree to, or to cooperate with the Contractor regarding any early completion plan or proposal by the Contractor and shall not be liable for any damages of the Contractor because of the rejection by the Lead Contractor of said plan.

- M. Unless otherwise specifically provided in the Contract Documents, and in particular the General Requirements, the Contractor acknowledges that the Owner and Architect have contemplated in their planning and in any preliminary schedule that may have been prepared and made available to the Bidders, and in their budgeting for professional services, that the Work shall be performed on a 5-day work week basis, utilizing a single 8-hour shift per day. The Owner and Lead Contractor shall have the sole discretion of approving or rejecting a variance in the work week, number of shifts, or shift length. Unless otherwise agreed to by the Owner or Lead Contractor, the Contractor shall bear the cost of, and pay the Owner, for additional staff and supervisory personnel and inspectors of any authority having jurisdiction of the Work, necessary to support any variance in the contemplated work week, number of shifts or shift length.

1.9 POST AWARD ACTIVITIES

- A. Upon receipt by the Contractor of the Notice to Proceed, and until the Contractor's Construction Schedule is completed by the Lead Contractor, Contractor and other Prime Contractors and completely and finally reviewed by the Lead Contractor, the Contractor shall do the following.
1. Meet with the Lead Contractor and within thirty (30) days of the Notice to Proceed, complete an Initial Construction Schedule governing the first 120 days of construction.
 2. Meet with the Lead Contractor and within seventy-five (75) days of the Notice to Proceed, complete a Final Construction Schedule governing the Work.
- B. Orientation Session: The Contractor shall, upon the issuance of the Notice to Proceed by the Owner, attend an orientation session relating to the requirements pertaining to schedules and reports for the Project. This orientation session is designed to assist the Contractor in planning their Work and in developing their Construction Schedule. This session shall be held within ten (10) days after the date of the Notice to Proceed and shall be conducted by the Lead Contractor. The Contractor shall arrange for their superintendent(s), major subcontractors, and any scheduling consultants that they may employ, to attend the orientation session.
1. It is understood and agreed that the Lead Contractor has no authority to waive any requirements of the Contract Documents at this orientation session, and all requirements of the Contract Documents remain applicable to the Contractor's Work whether or not discussed at this session.
 2. Should the Contractor or his major subcontractors fail or refuse to attend this orientation session, the Owner shall have the right to immediately terminate the Agreement with the Contractor for default and without liability or penalty to the Owner pursuant to the provisions of these specifications.

1.10 INITIAL CONSTRUCTION SCHEDULE

- A. Within ten (10) days following the orientation session, the Contractor, in consultation with the Lead Contractor, shall complete a draft of the Contractor's Construction Schedule.
- B. The Lead Contractor shall provide the Contractor with a draft print out of all activities needed during the first 120 days of construction for inclusion in the Initial Construction Schedule. The

printouts shall be carefully reviewed by the Contractor. Any revisions, additions and/or deletions to these documents that are reasonably desired by the Contractor shall be brought to the attention of the Lead Contractor within five (5) days following receipt by the Contractor of such draft. The Lead Contractor shall, if consistent with the requirements of the Contract Documents, incorporate the Contractor's proposed revisions and shall thereafter deliver the completed Contractor's Construction Schedule and other reports to the Contractor and the other Prime Contractors.

- C. The Lead Contractor shall have the right to require any Prime Contractor to modify any Contractor data or any portion of the Contractor's Construction Schedule, or other schedules provided by the Contractor in compliance with the Contract Documents, with the Contractor bearing the expense thereof, and which the Lead Contractor reasonably determines to be: (1) impracticable; (2) based upon erroneous calculations or estimates; (3) unreasonable; (4) required in order to ensure proper coordination by the Contractor of the Work of others and with the Work or services being provided by others; (5) necessary to avoid undue interference with the construction activities of other Prime Contractors or those of any utility owners or adjoining property owners; (6) necessary to ensure completion of the Work by the Completion Dates set forth in the Contract Documents; (7) required in order for the Contractor to comply with the requirements of these specifications or any other requirements of the Contract Documents or (8) not in accordance with the Contractor's actual operations. The right of Lead Contractor to establish the final Contractor's Construction Schedule and to render final construction decisions on the content of the Contractor's Construction Schedule is subject to the right of the Contractor to proceed in accordance with the dispute resolution provisions of these specifications.

1.11 FINAL CONSTRUCTION SCHEDULE

- A. Within fourteen (14) days following completion of the Initial Construction Schedule, the Contractor, in consultation with the Lead Contractor, shall complete a draft of the Final Construction Schedule.
- B. The Lead Contractor shall provide the Contractor and Owner with a draft print out of all activities included in the Final Construction Schedule. The graphic representation and computer printouts shall be carefully reviewed by the Contractor. Any revisions, additions and/or deletions to these documents that are reasonably desired by the Contractor shall be brought to the attention of the Lead Contractor within five (5) days following receipt by the Contractor of such draft. The Lead Contractor shall, if consistent with the requirements of the Contract Documents, incorporate the Contractor's proposed revisions and shall thereafter deliver the completed Construction Schedule and other reports to the Owner, the Contractor and the other Prime Contractors.
- C. The Lead Contractor shall have the right to require any Prime Contractor to modify any Contractor data or any portion of the Contractor's Final Construction Schedule, or other schedules provided by the Contractor in compliance with the Contract Documents, with the Contractor bearing the expense thereof, and which the Lead Contractor reasonably determines to be: (1) impracticable; (2) based upon erroneous calculations or estimates; (3) unreasonable; (4) required in order to ensure proper coordination by the Contractor of the Work of others and with the Work or services being provided by others; (5) necessary to avoid undue interference

with the construction activities of other Prime Contractors or those of any utility owners or adjoining property owners; (6) necessary to ensure completion of the Work by the Completion Dates set forth in the Contract Documents; (7) required in order for the Contractor to comply with the requirements of these specifications hereof or any other requirements of the Contract Documents or (8) not in accordance with the Contractor's actual operations.

1.12 CONSTRUCTION SCHEDULE CONTENT

- A. The Final Construction Schedule shall consist of a detailed CPM schedule of all Work activities of the Project. The schedule shall include, but not be limited to, the following information: (1) Project name; (2) completed Work ready for use by the next Contractor, the Owner, etc.; (3) activities relating to different areas of responsibility, such as subcontracted Work which is distinctly separate from that being done by the Contractor directly; (4) different categories of Work as distinguished by craft or crew requirements; (5) different categories of Work as distinguished by equipment requirements; (6) different categories of Work as distinguished by materials; (7) distinct and identifiable subdivisions of Work such as structural slabs, beams, columns; (8) location of Work within the Project that necessitates different times or crews to perform; (9) outage schedules for existing utility services that shall be interrupted during the performance of the Work; (10) acquisition and installation of equipment and materials supplied and/or installed by the Owner or Prime Contractors; (11) material to be stored on site; and (12) dates for completion of Work.
- B. For all major equipment and materials to be fabricated or supplied for the Project, the Contractor's Construction Schedule shall show a sequence of activities including: (1) preparation of Shop Drawings, Samples and all required Submissions as set forth in these specifications; (2) a reasonable time for review of Shop Drawings, Samples, and Submissions or such time as specified in the Contract Documents; (3) shop fabrication, delivery, and storage; (4) erection or installation; and (5) testing of equipment and materials.
- C. The Contractor's Construction Schedule shall clearly indicate the dates of the various stages of construction relative to temporary heat, as defined in Part 3 Paragraph "Temporary Heat" of Division 1 Section "Temporary Facilities & Controls".
- D. The Gantt Chart shall include the early dates and total float for each activity. There shall be no negative float in the baseline schedule.
- E. All activity durations shall be given in calendar days. No activity shall have a duration of more than twenty (20) days.
- F. Approval by the Contractor of the drafting and computerization of the Construction Schedule, and of schedule revisions, shall be evidence of the Contractor's agreement that the proposed schedule or schedule revision to the Construction Schedule is a true and accurate representation of their plan to complete the Work, including all change orders that are in the Contractor's possession as of the foregoing date, that the schedule or schedule revision fully complies with the requirements of the Contract Documents, that they shall prosecute the Work in accordance with this schedule revision, subject to any change therein which is implemented in accordance with the Contract Documents and that they have met and coordinated with and obtained the approval of said schedule revision by all other parties that are affected thereby.

1.13 UPDATING OF CONSTRUCTION SCHEDULE/PROGRESS REPORTS

- A. On a monthly basis the Contractor shall arrange for their Superintendent to meet at the site with the Lead Contractor to review the Contractor's report of actual progress. Said report shall set forth up-to-date and accurate progress data, shall be based upon the Contractor's best judgment and shall be prepared by the Contractor in consultation with all subcontractors.
- B. The progress report of the Contractor shall show the activities, or portions of activities, completed during the reporting period, the actual start and finish dates for these activities, remaining durations and/or estimated dates for completion of Work for activities currently in progress.
- C. The Lead Contractor shall produce a computerized update work sheet for the Contractor to complete as a part of this process.
- D. The Contractor shall submit a written report with the updated progress analysis which shall include, but not be limited to, a description of problem areas, current and anticipated delaying factors and their impact, explanations of corrective actions taken or planned, any newly planned activities or changes in sequence, and proposed logic for a recovery schedule, if required, as further described herein. The report shall also include: (1) a narrative describing actual Work accomplished during the reporting period; (2) a list of major construction equipment used on the Project during the reporting period and any construction equipment idle during the reporting period; (3) the total number of personnel by craft actually engaged in the Work during the reporting period, with such total stated separately as to office, supervisory, and field personnel; (4) a manpower and equipment forecast for the succeeding thirty (30) days, stating such total as to office, supervisory and field personnel; (5) a list of Contractor-supplied materials and equipment, indicating current availability and anticipated job Site delivery dates; and (6) changes or additions to the Contractor's supervisory personnel, if any, since the preceding progress report.
- E. The Contractor understands and agrees that the submission and approval of progress updates and the receipt of progress reports are an integral part and basic element of the Applications for Payment; and that the Contractor shall not be entitled to any progress payment under the Contract Documents until, in the sole discretion of the Owner, the Contractor has fully complied with the requirements of this Section.
- F. The Contractor shall be solely responsible for expediting the delivery of all materials and equipment to be furnished by or to them so that the progress of construction shall be maintained according to the currently approved Construction Schedule for the Work. The Contractor shall notify the Lead Contractor in writing, and in a timely and reasonable manner, whenever the Contractor determines or anticipates that the delivery date of any material or equipment to be furnished by the Contractor shall be later than the delivery date indicated by the Construction Schedule, or required consistent with the completion requirements of the Contract Documents, subject to schedule updates as herein provided.
- G. The Contractor shall ensure that off the site activities do not control the critical path of the Construction Schedule and instead, that the critical path relates to activities on the site.

1.14 RECOVERY SCHEDULE

- A. Should the updated Contractor's Construction Schedule, at any time during the Contractor's performance, show, in the sole opinion of the Owner that the Contractor is fourteen (14) or more days behind schedule for any Completion Date, or should the Contractor be required to undertake actions as provided for in these specifications, with or without the direction of the Lead Contractor, the Contractor shall prepare a recovery schedule at no additional cost to the Owner (unless the Owner is solely responsible for the event or occurrence which has caused the schedule slippage) explaining and displaying how the Contractor intends to reschedule their Work in order to regain compliance with the Contractor's Construction Schedule during the immediate subsequent pay period.
- B. If the Contractor believes that all of the time can be recovered during the subsequent pay period, the Contractor shall be permitted to prepare a recovery schedule as set forth below. However, if the Contractor believes it shall take more than thirty (30) days to recover all of the lost time, they shall prepare and submit a request for revision to the Contractor's Construction Schedule and comply with all of the requirements of a schedule revision as set forth in this Paragraph 1.14 and Paragraph 1.15.
 - 1. The Contractor shall prepare and submit to the Lead Contractor a limited duration recovery schedule, incorporating the best available information from subcontractors and others which shall permit a return to the Contractor's Construction Schedule at the earliest possible time. The Contractor shall prepare a recovery schedule to the same level of detail as the Contractor's Construction Schedule for a maximum duration of one month. The recovery schedule shall be prepared in coordination with all other Prime Contractors.
 - 2. Within two (2) days after submission by the Contractor or by any Prime Contractor of a recovery schedule to the Lead Contractor, the Contractor shall participate in a conference with the Lead Contractor and the Owner, to review and evaluate the recovery schedule. Within two (2) days of the conference, the Contractor shall submit the revisions necessitated by the review for the Owner's review and approval. The Contractor shall use the approved recovery schedule as their plan for returning to the Contractor's Construction Schedule.
 - 3. The Contractor shall confer continuously with the Lead Contractor and Owner to assess the effectiveness of the recovery schedule. As a result of this conference:
 - a. If the Owner determines the Contractor is still behind schedule, the Lead Contractor shall direct the Contractor to prepare a schedule revision with the assistance of the Lead Contractor and comply with all of the requirements of a schedule revision as stated herein and the other requirements of the Contract Documents; provided, however, that nothing herein shall limit in any way the rights and remedies of the Owner and the Lead Contractor as provided elsewhere in the Contract Documents; or
 - b. If the Owner determines the Contractor has successfully complied with provisions of the recovery schedule, the Lead Contractor shall direct the Contractor to return to the use of the approved Contractor's Construction Schedule.
 - c. Nothing herein alters the rights of the Owner to resolve coordination and scheduling issues in dispute between and among the Contractor and other Prime Contractors.

1.15 SCHEDULE REVISIONS

- A. Should the Contractor desire to or be otherwise required under the Contract Documents to make modifications or changes in their method of operation, their sequence of Work or the durations of the activities in the Contractor's Construction Schedule, they shall do so in accordance with the requirements of this Paragraph and the Contract Documents. Revisions to the approved Contractor's Construction Schedule must be presented to and reviewed by the Owner.
- B. The Contractor shall submit requests for revisions to the Contractor's Construction Schedule to the Owner, together with written rationale for revisions and a description of logic for rescheduling Work and maintaining the Completion Dates listed in the Contract Documents. Proposed revisions acceptable shall be incorporated into the next update of the Contractor's Construction Schedule. The Contractor shall pay the Owner for costs incurred by the Lead Contractor for the revisions.
- C. In all instances where a revision to the Contractor's Construction Schedule will affect the construction activities of other Prime Contractors, prior to submission by the Contractor of their proposed schedule revisions, they shall meet with and gain written approval of each of the Prime Contractors to make the revisions which shall be evidenced by the signatures of said Prime Contractors on the proposed schedule revisions. If accepted, the revisions, shall be binding upon the Contractor and all Prime Contractors on the Project.

1.16 FLOAT TIME

- A. Float or slack time associated with one chain of activities is defined as the amount of time between the earliest start date and latest start date or between the earliest finish date and latest finish date for such activities, as calculated as part of the Contractor's Construction Schedule. The Contractor agrees that there shall be no basis for any modification of the Completion Date or dates or an extension of the Contract Time, or a claim for additional compensation as a result of any Project problem, Change Order or delay which only results in the loss of available positive float on the Contractor's Construction Schedule.

1.17 SCHEDULE OF INSPECTIONS AND TESTS

- A. Prepare a schedule of inspections, tests, and similar services required by the Contract Documents. Submit the schedule within 10 days of the date established for commencement of the Work.
- B. The schedule shall be in tabular form and shall include, but not be limited to, the following:
 - 1. Specification Section number
 - 2. Description of the test
 - 3. Identification of applicable standards
 - 4. Identification of test methods
 - 5. Number of tests required
 - 6. Time schedule or time span for tests

7. Entity responsible for performing tests
 8. Requirements for taking samples
 9. Unique characteristics of each service
- C. Distribute the schedule to the Owner, Architect, and each party involved in performance of portions of the Work where inspections and tests are required.

1.18 REPORTS

- A. Daily Construction Reports: Prepare Daily Construction Reports recording the following information concerning events at the Project site:
1. List of subcontractors at Project site
 2. List of separate contractors at Project site
 3. Approximate count of personnel at Project site
 4. High and low temperatures and general weather conditions
 5. Accidents
 6. Meetings and significant decisions
 7. Unusual events (refer to special reports)
 8. Stoppages, delays, shortages, and losses
 9. Meter readings and similar recordings
 10. Emergency procedures
 11. Orders and requests of authorities having jurisdiction
 12. Change Orders received and implemented
 13. Construction Change Directives received
 14. Services connected and disconnected
 15. Equipment or system tests and startups
 16. Partial Completions and occupancies
 17. Substantial Completions authorized
- B. Field Correction Reports: When the need to take corrective action that requires a departure from the Contract Documents arises, prepare a detailed report. Include a statement describing the problem and recommended changes. Indicate reasons the Contract Documents cannot be followed. Submit a copy to the Architect immediately.
- C. Field Condition Reports: Immediately on discovery of a difference between field conditions and the Contract Documents, prepare a detailed report. Submit with a Request for Information. Include a detailed description of the differing conditions, together with recommendations for changing the Contract Documents.
- D. Material Location Reports: At weekly intervals, prepare a comprehensive list of materials delivered to and stored at the site. The list shall be cumulative, showing materials previously reported plus items recently delivered. Include with the list a statement of progress on and delivery dates for materials or items of equipment fabricated or stored away from the site. Submit copies of the list to the Architect at weekly intervals.

1.19 SPECIAL REPORTS

- A. General: Submit Special Reports directly to the Owner within one day of an occurrence. Distribute copies of reports to parties affected by the occurrence and to the Architect.
- B. Reporting Unusual Events: When an event of an unusual and significant nature occurs at the Project site, whether or not related directly to the Work, prepare and submit a Special Report. List chain of events, persons participating, response by Contractor's personnel, evaluation of results or effects, and similar pertinent information. Advise the Owner in advance when these events are known or predictable.

PART 2 - EXECUTION (Not Applicable)

PART 3 - EXECUTION (Not Applicable)

END OF SECTION 013200

SECTION 013300 - SUBMITTALS

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 Submittals required for performance of the Work, including the following:
 - 1. Shop Drawings.
 - 2. Product Data.
 - 3. Samples.
 - 4. Quality Assurance Submittals.
 - 5. Submittals Schedule.
- B. Administrative Submittals: Refer to other Division 1 Sections and other Contract Documents for requirements for administrative submittals. Such submittals include, but are not limited to, the following:
 - 1. Permits.
 - 2. Applications for Payment, along with Initial Statement of Contract Value.
 - 3. Performance and Payment Bonds.
 - 4. Insurance certificates.
 - 5. List of subcontractors.
- C. Related Sections: The following Sections contain requirements that relate to this Section:
 - 1. Division 1 Section "Applications for Payment" specifies requirements for submittal of the Schedule of Values.
 - 2. Division 1 Section "Substitutions" specifies procedural requirements for handling requests for substitutions made after award of the Contract.
 - 3. Division 1 Section "Project Coordination" specifies requirements governing preparation and submittal of required Coordination Drawings.
 - 4. Division 1 Section "Project Meetings" specifies requirements for submittal and distribution of meeting and conference minutes.
 - 5. Division 1 Section "Construction Progress Documentation" specifies requirements for Submittal Schedules.
 - 6. Division 1 Section "Quality Requirements" specifies requirements for submittal of inspection and test reports.
 - 7. Division 1 Section "Warranties" specifies requirements for Submittal of warranties at project closeout.

8. Division 1 Section "Project Record Documents" specifies requirements for submittal of Project Record Documents at project closeout.

1.3 DEFINITIONS

- A. Coordination Drawings show the relationship and integration of different construction elements that require careful coordination during fabrication or installation to fit in the space provided or to function as intended.
 1. Preparation of Coordination Drawings is specified in Division 1 Section "Project Coordination" and may include components previously shown in detail on Submittals.
- B. Field samples are full-size physical examples erected on-site to illustrate finishes, coatings, or finish materials. Field samples are used to establish the standard by which work will be judged.
- C. Mockups are full-size assemblies for review of construction, coordination, testing, or operation; they are not Samples.
- D. For Specification sections listing manufacturer's products that include the phrases "but are not limited to the following" or "approved equal", Contractor shall be responsible to provide certification that the submitted product complies with the specified product. Include this certification with the Submittal. Final approval of a product submitted as an "equal" shall be the sole decision of Architect.

1.4 SUBMITTAL PROCEDURES

- A. **All Submittals shall be processed electronically through a web-based construction administration software, either Submittal Exchange or Newforma, to be determined by Architect.** This software serves as a collaborative web environment which expedites and organizes the review process. Owner will pay the fees associated to acquire the use of a license for the Project. **Each Submittal is to include a SINGLE item or element of construction only. A Submittal Cover Sheet, on the attached form shall be completed, signed and certified by Contractor for EACH Submittal. Architect will not accept Submittals including multiple items or elements of construction. Submittals not meeting this procedure requirement may be returned with No Action Taken. No extension of Contract Time will be authorized due to failure to comply with this procedure.**
 1. The software licensee will provide a training session via web conference for the construction team.
 2. All Samples and color selections shall be delivered by mail or courier **to the architect**. Samples shall be logged in via the construction administration software, but delivered hardcopy by mail.
 3. The design and construction team shall collectively maintain the Submittal Log through the construction administration software.
- B. Coordination: Coordinate preparation and processing of Submittals with performance of construction activities. Transmit each Submittal sufficiently in advance of performance of related construction activities to avoid delay.

1. Coordinate each Submittal with fabrication, purchasing, testing, delivery, other Submittals and related activities that require sequential activity.
 2. Coordinate transmittal of different types of Submittals for related elements of work so processing will not be delayed by the need to review Submittals concurrently for coordination.
 - a. Architect reserves the right to withhold action on a Submittal requiring coordination with other Submittals until all related Submittals are received.
 - b. **Be advised that all interior finishes will be reviewed together and finally determined after receipt of all Shop Drawings, Product Data and Samples which pertain to the interior finish color selections and related equipment.**
 3. To avoid the need to delay installation as a result of the time required to process Submittals, allow sufficient time for Submittal review, including time for resubmittals.
 - a. Allow a minimum of fifteen (15) working days for review. Additional time may be required for further review and/or coordination with consultants and subsequent Submittals as determined by Architect.
 - b. If a resubmittal is necessary, process the same as the original Submittal.
 - c. No extension of Contract Time will be authorized because of failure to transmit Submittals to Architect sufficiently in advance of the work to permit processing.
- C. Submittal Preparation: Architect will not accept Submittals received without the attached 'Submittal Cover Sheet'. Contractor shall stamp the 'Submittal Cover Sheet' with an action stamp. Contractor shall mark the stamp appropriately to indicate the action taken. **Submittals shall be pre-reviewed by Contractor PRIOR to submittal to Architect for review.** See Paragraph 1.6.C.1 of this Section for additional information.
1. Use the 'Submittal Cover Sheet' attached at the end of this Section for all Submittals.
 2. Complete all information required on the 'Submittal Cover Sheet'. Failure to do so may result in return of the Submittal with No Action Taken. No extension of Contract Time will be authorized because of failure to comply with this procedure.
- D. Contractor's Transmittal: Architect will not accept Submittals received from sources other than Contractor.

1.5 SUBMITTAL SCHEDULE

- A. Submittal Schedule: Submit three copies of the Submittal Schedule to Architect. Arrange the following information in a tabular format:
1. 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 final release or approval.

- B. Submit the Submittal Schedule, arranged in chronological order by dates required by Contractor's Construction Schedule. Include time required for review, resubmittal, ordering, manufacturing, fabrication and delivery when establishing dates.
1. Coordinate the Submittal Schedule with the List of Subcontractors, the Schedule of Values and Contractor's Construction Schedule.
 2. Initial Submittal: Submit an Initial Submittal Schedule concurrently with the Initial Construction Schedule. Include Submittals required during the first 60 days of construction. List those required to maintain orderly progress of the Work and those required early because of long lead time for manufacture, fabrication or delivery.
 3. Final Submittal: Submit a Final Submittal Schedule concurrently with the Final Contractor's Construction Schedule. Include all remaining Submittals. **All Submittals are required to be submitted by Contractor within ninety (90) days of the date of Notice to Proceed.**
- C. Distribution: Following response to the initial Submittal, print and distribute copies to Architect, Owner, subcontractors, and other parties required to comply with submittal dates indicated. Post copies in Project meeting room and field office.
1. When revisions are made, distribute to the same parties and post in the same locations. Delete parties from distribution when they have completed their assigned portion of the Work and are no longer involved in construction activities.
- D. Schedule Updating: Revise the schedule after each meeting or activity where revisions have been recognized or made. Issue the updated schedule concurrently with the report of each meeting.

1.6 SUBMITTALS

- A. Shop Drawings:
1. Submit newly prepared information drawn accurately and to scale. Highlight, circle or otherwise indicate deviations from the Contract Documents. Do not reproduce Contract Documents or copy standard information as the basis of Shop Drawings. Standard information prepared without specific reference to Project is not a Shop Drawing.
 2. Shop Drawings include fabrication and installation drawings, setting diagrams, schedules, patterns, templates and similar drawings. Include the following information:
 - a. Dimensions.
 - b. Identification of products and materials included by sheet and detail number.
 - c. Notation of dimensions established by field measurement.
 - d. Submit Shop Drawings electronically through the construction administration software for Architect's review.
 - e. Architect will return Submittals electronically and indicate action taken.
 - f. Maintain a complete set of Shop Drawings on Project site during construction.
 - g. Maintain a set of marked up Shop Drawings as part of Project record documents to be turned over to Owner at Contract Closeout.

- h. Do not use Shop Drawings without an appropriate final stamp indicating action taken.

B. Product data

1. Collect and assemble Product Data into a single Submittal for each element or system of construction. Product Data includes printed information such as manufacturer's installation instructions, catalog cuts, standard color charts, roughing-in diagrams and templates, standard wiring diagrams and performance curves.
2. Mark each copy to show applicable choices and options. Where printed Product Data includes information on product options that are not required or are not being used, mark Product Data to indicate the applicable products and information. Include the following information:
 - a. Manufacturer's printed recommendations.
 - b. Compliance with trade association standards.
 - c. Compliance with recognized testing agency standards.
 - d. Application of testing agency labels and seals.
 - e. Notation of dimensions verified by field measurement.
 - f. Notation of coordination requirements.
 - g. Submit Product Data electronically through the construction administration software for Architect's review.
 - h. Architect will return Product Data electronically and indicate action taken.
 - i. Maintain a complete set of Product Data on site during construction.
 - j. Maintain a set of marked up Product Data as part of Project record documents to be turned over to Owner at Contract Closeout.
 - k. Do not use Product Data without an appropriate final stamp indicating action taken.

- C. Action Stamp: **Contractor shall thoroughly review and stamp Submittals** with their action stamp. Contractor shall mark the stamp appropriately to indicate the action taken.
Submittals not prereviewed by Contractor will be returned with no action taken.

1. Contractor's review notations and action stamp shall be applied with **GREEN** ink.

- D. Distribution: Furnish final approved Submittals to installers, subcontractors, suppliers, manufacturers, fabricators, and all others required for performance of construction activities.

1.7 SAMPLES

- A. Where required by individual specification sections, submit full-size, fully fabricated Samples cured and finished as specified and physically identical to the material or product proposed. Samples include partial sections of manufactured or fabricated components, cuts or containers of materials, physical material samples, color range sets or swatches showing color, texture, and pattern.

1. Mount or display Samples in a manner to facilitate review of qualities indicated. Prepare Samples to match Architect's sample or in accordance with the product specifications. Include the following:
 - a. Specification Section number and reference.
 - b. Generic description of the Sample.
 - c. Sample source.
 - d. Product name or name of the manufacturer.
 - e. Compliance with recognized standards.
 - f. Availability and delivery time.
2. Submit Samples for review of size, kind, color, pattern and texture. Submit Samples for a final check of these characteristics with other elements and a comparison of these characteristics between the final Submittal and the actual component as delivered and installed.
 - a. Where variation in color, pattern, texture or other characteristic is inherent in the material or product represented, submit at least 3 multiple units that show approximate limits of the variations.
 - b. Refer to other Specification Sections for requirements for Samples that illustrate workmanship, fabrication techniques, details of assembly, connections, operation, and similar construction characteristics.
 - c. Samples not incorporated into the Work, or otherwise designated as Owner's property, are the property of Contractor and shall be removed from Project site prior to Substantial Completion.
3. Submit a full set of choices where Samples are submitted for selection of color, pattern, texture or similar characteristics from a range of choices as specified.
4. Architect will review and return preliminary Submittals with Architect's notation, indicating selection and other action.

1.8 QUALITY ASSURANCE SUBMITTALS

- A. Submit Quality Control Submittals, including design data, certifications, manufacturer's instructions, manufacturer's field reports and other quality control submittals as required under other Sections of the Specifications.
- B. Certifications: Where other Sections of the Specifications require certification that a product, material or installation complies with specified requirements, submit a certification from the manufacturer certifying compliance with the specified requirements. Architect reserves the right to require this certification to be notarized.
 1. The Certification shall be signed by an officer of the manufacturer or other individual authorized to sign documents on behalf of the company.
- C. Inspection and Test Reports: Requirements for submittal of inspection and test reports from independent testing agencies are specified in Division 1 Section "Quality Requirements."

1.9 ARCHITECT'S ACTION

- A. Except for Submittals for the record or information, where action and return is required, Architect will review each Submittal, mark to indicate action taken, and return promptly.
 - 1. Compliance with specified characteristics is Contractor's responsibility.
- B. Action Stamp: Architect will stamp each Submittal with a uniform action stamp. Architect's review notations and action stamp shall be applied with **RED** ink. Architect will mark the stamp to indicate the action taken, as follows:
 - 1. NO EXCEPTION TAKEN: Work covered by the Submittal may proceed without further submittal, provided it complies with requirements of the Contract Documents. Final payment depends on that compliance.
 - 2. EXCEPTION(S) NOTED: Work covered by the Submittal may proceed provided it complies with notations or corrections on the Submittal and requirements of the Contract Documents. Final payment depends on that compliance.
 - 3. SUBMIT SPECIFIED ITEM: Do not proceed with work covered by the Submittal, including purchasing, fabrication, delivery or other activity. Prepare a new Submittal indicating specified material; resubmit without delay.
 - 4. REVISE & RESUBMIT: Do not proceed with work covered by the Submittal, including purchasing, fabrication, delivery or other activity. Revise or prepare a new Submittal according to the notations; resubmit without delay. Repeat if necessary to obtain different action mark.
 - 5. REJECTED: Do not proceed with work covered by the Submittal, including purchasing, fabrication, delivery or other activity. Do not resubmit a revised copy; prepare a new Submittal according to the notations; resubmit without delay. Repeat if necessary to obtain different action mark.
- C. Unsolicited Submittals: Architect will take no action on unsolicited submittals.

END OF SECTION 013300

SUBMITTAL COVER SHEET
(Attach to each copy of each submittal)

PROJECT NAME & NUMBER _____

ARCHITECT:



Crabtree, Rohrbaugh & Associates - Architects

401 East Winding Hill Road

Mechanicsburg, PA 17055

Pennsylvania • Virginia • Maryland • West Virginia

ENGINEER: _____

CONTRACTOR: _____

SUBCONTRACTOR/SUPPLIER: _____

MANUFACTURER: _____

ITEM SUBMITTED: _____

SUBMITTAL NO. _____

SPECIFICATION SECTION NO. _____

PARAGRAPH NO. _____

DRAWING REFERENCE _____

DETAIL NO. _____

CERTIFICATION: (Circle One)

A. Certified to comply with Drawings and Specifications.

B. Certified to comply with Drawings and Specifications except as noted on Contractor attachment(s)

Signature: Subcontractor/Supplier

Date

Signature: Contractor

Date

Contractor's Action Stamp Here

Architect's Action Stamp Here

SUBMITTAL DEVIATION SHEET
(Attach this sheet behind Submittal Cover Sheet)

PROJECT NAME AND NUMBER: _____

ARCHITECT: _____



Crabtree, Rohrbaugh & Associates - Architects

401 East Winding Hill Road

Mechanicsburg, PA 17055

Pennsylvania • Virginia • Maryland • West Virginia

ENGINEER: _____

CONTRACTOR: _____

SUBCONTRACTOR/SUPPLIER: _____

PRODUCT SPECIFIED: _____

SPECIFICATION SECTION NO. _____

PARAGRAPH NO. _____

DRAWING REFERENCE _____

DETAIL NO. _____

DESCRIPTION OF DEVIATION: _____

Signature: Subcontractor/Supplier

Date

Signature: Contractor

Date

ARCHITECT/ENGINEER REMARKS:

SECTION 014000 - QUALITY REQUIREMENTS

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 quality 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 requirements of the Contract Document.
 - 1. Specific quality-control requirements for individual construction activities are specified in the Sections that specify those activities. Requirements in those Sections may also cover production of standard products.
 - 2. Specified tests, inspections, and related actions do not limit Contractor's quality-control procedures that facilitate compliance with the requirements of the Contract Document.
 - 3. Requirements for Contractor to provide quality-control services required by Architect, Owner or authorities having jurisdiction are not limited by the provisions of this Section.
- C. Related Sections: The following Sections contain requirements that relate to this Section:
 - 1. Division 1 Section "Construction Progress Documentation" for developing a schedule of required tests and inspections.
 - 2. Division 1 Section "Cutting and Patching" for repair and restoration of construction disturbed by testing and inspecting activities.
 - 3. Divisions 2 through 33 Sections for specific test and inspection requirements.

1.3 DEFINITIONS

- A. Quality-Assurance Services: Activities, actions and procedures performed before and during execution of the Work to guard against defects and deficiencies and to ensure that proposed construction complies with Project requirements.
- B. Quality-Control Services: Tests, inspections, procedures and related actions during and after execution of the Work to evaluate that completed construction complies with Project requirements. Services do not include contract enforcement activities performed by Architect.
- C. Mockups: Full-size, physical example assemblies to illustrate finishes and materials. 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. Samples are not mockups.

- D. Testing Agency: An entity engaged to perform specific tests, inspections, or both. Testing laboratory shall mean the same as testing agency.

1.4 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 the specific performance and design criteria indicated.
 - 1. If the criteria indicated is not sufficient to perform the services or certifications required, submit a written request for additional information to Architect.

1.5 REGULATORY REQUIREMENTS

- A. Copies of Regulations: Obtain copies of applicable regulations and retain at Project site to be available for reference by parties who have a reasonable need.

1.6 SUBMITTALS

- 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. Delegated-Design Submittal: In addition to Shop Drawings, Product Data and other required submittals, submit a 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, indicating that the products and systems are in compliance with the performance and design criteria indicated. Include a list of codes, loads and other factors used in performing these services.
- C. Schedule of Tests and Inspections: Prepare in tabular form and include the following:
 - 1. Specification Section number and title.
 - 2. Description of test and inspection.
 - 3. Identification of applicable standards.
 - 4. Identification of test and inspection methods.
 - 5. Number of tests and inspections required.
 - 6. Time schedule or time span for tests and inspections.
 - 7. Entity responsible for performing tests and inspections.
 - 8. Requirements for obtaining samples.
 - 9. Unique characteristics of each quality-control service.
- D. 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.
 8. Complete test or inspection data.
 9. Test and inspection results and an interpretation of test results.
 10. Ambient conditions at the time of sample taking and testing and inspecting.
 11. Comments or professional opinion on whether tested or inspected work complies with the requirements of the Contract Documents.
 12. Name and signature of laboratory inspector.
 13. Recommendations on retesting and re-inspecting.
- E. Permits, Licenses, and Certificates: 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.

1.7 QUALITY ASSURANCE

- A. Fabricator Qualifications: A firm experienced in producing products similar to those indicated for Project, and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.
- B. Factory-Authorized Service Representative Qualifications: An authorized representative of manufacturer who is trained and approved by manufacturer to inspect the installation of manufacturer's products that are similar in material, design, and extent to those indicated for Project.
- C. Installer Qualifications: A firm or individual experienced in installing, erecting, or assembling work similar in material, design and extent to that indicated for Project, whose work has resulted in construction with a record of successful in-service performance.
- D. Manufacturer Qualifications: A firm experienced in manufacturing products or systems similar to those indicated for Project and with a record of successful in-service performance.
- E. Professional Engineer Qualifications: A professional engineer who is qualified and legally licensed to practice in the 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 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 the qualification requirements indicated and shall be engaged for the activities indicated.

1. The requirement for specialists shall not supersede building codes and similar regulations governing the Work, nor interfere with local trade-union jurisdictional settlements and similar conventions.
- G. Testing Agency Qualifications: An agency with the experience and capability to conduct the testing and inspecting indicated, as documented by ASTM E548, and that specializes in the types of tests and inspections to be performed.
- H. Preconstruction Testing: A qualified testing agency shall perform preconstruction testing for compliance with specified requirements for performance and test methods.
1. Contractor responsibilities include the following:
 - a. Provide test specimens and assemblies representative of proposed materials and construction. Provide sizes and configurations of assemblies to adequately demonstrate capability of the product to comply with performance requirements.
 - b. Submit specimens in a timely manner with sufficient time for testing and analyzing results to prevent delaying the Work.
 - c. Fabricate and install test assemblies using installers who will perform the same tasks for Project.
 - d. When testing is complete, remove assemblies; do not reuse materials on Project.
 2. Testing Agency Responsibilities: Submit a certified written report of each test, inspection, and similar quality-assurance service to Architect, with copy to Contractor. Interpret tests and inspections and state in each report whether the tested and inspected work complies with or deviates from the requirements of 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 the location and of the size indicated or, if not indicated, as directed by Architect.
 2. Notify Architect at least 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.
 5. Maintain mockups during construction in an undisturbed condition as a standard for judging the completed Work.
 6. Demolish and remove mockups when directed, unless otherwise indicated.

1.8 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.

1. Owner will furnish Contractor with the names, addresses and telephone numbers of the testing agencies engaged and a description of the types of testing and inspecting each is engaged to perform.
 2. The Costs for retesting and reinspecting construction that replaces or is necessitated by work that failed to comply with the requirements of the Contract Documents will be charged to Contractor.
- B. Contractor Responsibilities: Unless otherwise indicated, provide quality-control services specified and required by authorities having jurisdiction.
1. Where services are indicated as Contractor's responsibility, engage a qualified testing agency to perform these quality-control services.
 - a. Contractor shall not employ the same entity engaged by Owner, unless agreed to in writing by Owner.
 2. Notify testing agencies at least 24 hours in advance of the time when work that requires testing 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.
 4. Testing and inspecting requested by Contractor, which are not required by the Contract Documents, are Contractor's responsibility.
 5. Submit additional copies of each written report directly to authorities having jurisdiction, when they so direct.
- C. Special Tests and Inspections: Owner will engage a testing agency to conduct special tests and inspections required by authorities having jurisdiction as the responsibility of Owner.
1. Testing agency will notify Architect and Contractor promptly of irregularities and deficiencies observed in the Work during performance of its services.
 2. Testing agency will submit a certified written report of each test, inspection and similar quality-control service to Architect, with copy to Contractor and to authorities having jurisdiction.
 3. Testing agency will submit a final report of special tests and inspections at Substantial Completion, which includes a list of unresolved deficiencies.
 4. Testing agency will interpret tests and inspections and state in each report whether tested and inspected work complies with or deviates from the requirements of the Contract Documents.
 5. Testing agency will retest and reinspect corrected work. Costs for retesting and reinspecting construction that replaces or is necessitated by work that failed to comply with the requirements of the Contract Documents will be charged to Contractor.
- D. Manufacturer's Field Services: Where indicated, engage a factory-authorized service representative to inspect field-assembled components and equipment installation, including service connections. Report results in writing.
- E. Retesting/Reinspecting: Regardless of whether original tests or inspections were Contractor's responsibility, provide quality-control services, including retesting and reinspecting, for

construction that revised or replaced work that failed to comply with the requirements established by the Contract Documents.

- F. Testing Agency Responsibilities: Cooperate with Architect and Contractor in performance of duties. Provide qualified personnel to perform required tests and inspections.
 - 1. Notify Architect and Contractor promptly of irregularities or deficiencies observed in the Work during performance of its services.
 - 2. Interpret tests and inspections and state in each report whether tested and inspected work complies with or deviates from requirements.
 - 3. Submit a certified written report, in duplicate, of each test, inspection and similar quality-control service through Contractor.
 - 4. Do not release, revoke, alter or increase the requirements of the Contract Documents or approve or accept any portion of the Work.
 - 5. Do not perform any duties of Contractor.
- G. Associated Services: Cooperate with agencies performing required tests, inspections, and similar quality-control services, and provide reasonable auxiliary services as requested. Notify the 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 the testing agency.
 - 7. Security and protection for samples and for testing and inspecting equipment at Project site.
- H. Coordination: Coordinate the sequence of activities to accommodate required quality-assurance and quality-control services with a minimum of delay and to avoid the necessity of removing and replacing construction to accommodate testing and inspecting.
 - 1. Schedule times for tests, inspections, obtaining samples, and similar activities
- I. Schedule of Tests and Inspections: Prepare a schedule of tests, inspections, and similar quality-control services required by the Contract Documents. Submit the schedule within 30-days of the date established for the Notice to Proceed.
 - 1. Distribution: Distribute the schedule to Owner, Architect, the testing agencies and each party involved in performance of portions of the Work where tests and inspections are required.

PART 2 - PRODUCTS (Not Applicable)

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 the installation requirements specified in other Sections of these Specifications. Restore patched areas and extend restoration into adjoining areas in a manner that eliminates evidence of patching.
 - 2. Comply with the Contract Document requirements for Division 1 Section "Cutting and Patching."
- 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 014000

SECTION 014100 – SAFETY

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. General: This Section specifies the required safety procedures for Project.
- B. The safety of all personnel is the responsibility of each prime contractor involved in the construction of Project. It is the contractual obligation of each prime contractor to adhere to all requirements of the Occupational Health and Safety Act (OSHA), as well as Local and State safety rules and regulations. Each prime contractor shall assure the safety of their personnel by providing all protection and safety devices, covers, etc. as they relate to the safe conduct of their work in accordance with all Local, State and Federal regulations. Each prime contractor is responsible for any safety requirements that are contractually those of any contractor.
- C. The General Contractor shall be designated as the Lead Prime Contractor with respect to jobsite safety. Responsibilities and authority of the General Contractor shall be as follows:
 - 1. This Contractor will be responsible to inspect and maintain safe working conditions on the jobsite.
 - 2. Where Work of one contractor places another contractor's workers in jeopardy, the Lead Prime Contractor shall direct and coordinate the effort of the other contractors to ensure that jobsite safety is maintained.
 - 3. Maintain a competent person on site at all times designated to make safety inspections and to serve as the designated representative in charge of safety during an inspection by OSHA.
 - 4. Direct another contractor to make corrections in the event of a safety violation. Failure of another contractor to take prompt action (within 24 hours following written notice) to correct a safety violation will empower the Lead Prime Contractor to make the necessary corrections and to receive full compensation for such corrections directly from Owner. Owner will verify and provide documentation of time and material expended to make corrections and in turn will recover the amount of expense from the offending contractor through a deduct Change Order.
 - 5. The Lead Prime Contractor's responsibilities and corresponding authority are as defined in the General Conditions of the Contract for Construction.
 - 6. The individual prime contractors will maintain primary responsibility for the safety of their workers. The Lead Prime Contractor will serve to identify areas of concern and will endeavor to accomplish required corrections through cooperation of the other prime contractors. In the event this effort is unsuccessful, the Lead Prime Contractor will take action as defined above.

7. Owner will make payment to the Lead Prime Contractor when corrective action has been taken on behalf of an offending contractor, and the Lead Prime Contractor has provided appropriate documentation in accordance with contract modification procedures.
8. The Lead Prime Contractor shall provide regular and periodic safety inspections and reports by an independent safety consultant. Inspections and reports shall be performed at least once every three months.
9. Each prime contractor shall provide a safety representative trained in First Aid and CPR.
10. Separation of students and faculty from workers will be required to the extent reasonably possible.

PART 2 - PRODUCTS (Not applicable)

PART 3 - EXECUTION

3.1 ACCIDENTS

- A. Contractor shall notify Owner of any personal injury of any contractor or subcontractor's employees at Project site that could require medical treatment. Also, any damage to property arising in connection with Contractor's performance should be brought to the attention of Owner as promptly as possible after the occurrence of such injury or damage, but no more than 24-hours after the occurrence. Within 48-hours of such occurrence, Contractor shall furnish to Owner a complete written report of such injury or damage. Accident Reports shall include specific actions taken by Contractor to preclude recurrence of similar incidents.

3.2 EMERGENCY DATA

- A. Contractor shall provide Owner with the following emergency data prior to beginning work at Project site:
 1. Emergency care facility to be utilized, including address and telephone number.
 2. Insurance company and local agent/name, address and telephone number.
 3. Detailed description of corporation or company safety program.
 4. Employees qualified in type of first aid; list employee and associated skills.
 5. Detailed description of specifically tailored job site safety program.
 6. Identify corporate and job site safety officer.
 7. Submit weekly TOOLBOX SAFETY TALK program/meeting minutes including:
 - a. Day of week.
 - b. Time of day.
 - c. Location.
 - d. Attendance record.
 - e. Agenda.
 - f. Unsafe items previously discussed and date of correction.
 - g. Identify on-site personnel with First Aid training.
 8. All applicable MSDS Program sheets. (Include numbered pages and Table of Contents).

9. Submit completed hazardous substance survey form.
10. Review project "Emergency Response Plan" with Owner.

3.3 SAFETY AGREEMENT

- A. Contractor shall review and comply with the following Safety Agreement before beginning Work:
 1. As a Contractor under this Contract, you have, by accepting this Contract, obligated yourself to conduct all your operations within this Safety Agreement.
 2. Contractor agrees that the prevention of accidents to employees engaged in the Work under this Agreement is the responsibility of Contractor.
 3. Contractor agrees to comply with all laws, regulations and codes concerning safety as shall be applicable to the Work and to the safety standards established during progress of the Work. When so ordered, Contractor agrees to stop any part of the Work which the Lead Prime Contractor or any other applicable agency may deem unsafe until corrective measures satisfactory to Owner, and in accordance with the applicable Federal and/or State regulations, have been taken and further agrees to make no claim for damages growing out of such stoppages. Should Contractor neglect to adopt such corrective measures, Owner may elect to hire an entity, perform the corrections, and deduct the cost from payments due or to become due Contractor. Failure on the part of Owner to stop unsafe practices shall in no way relieve Contractor of their responsibility.
 4. Contractor recognizes that an effective accident prevention program is to the mutual benefit of all Contractors through improved employee and public relations and through increased efficiency and production. Further, no accident prevention activity can be truly effective without the sincere cooperation of each contractor performing work on the site.
 5. Your attention is directed, but not limited to the following items:

3.4 HOUSEKEEPING

- A. Indiscriminate accumulations of debris, waste or scrap in work areas will not be permitted. Areas will be designated by the Lead Prime Contractor for storage or disposal. All materials, tools and equipment must be stored in an orderly manner in designated areas.

3.5 PERSONAL PROTECTION EQUIPMENT

- A. Contractor must furnish its employees with the proper type of personal protective equipment as required by the operations being performed, including, but not limited to the following:
 1. Hard Hats must be furnished to employees and worn at ALL times when on Project, whether or not an overhead hazard exists or what state of construction Project may be in.
 2. Owner requires that appropriate attire be worn at all times while employees are working onsite. Appropriate attire shall be as deemed necessary by Owner and in accordance with all applicable OSHA regulations.

3.6 SAFETY MEETINGS

- A. Contractor is required to conduct, and all employees are required to attend a “Toolbox” type safety meeting once per week. These meetings may be presided over by either Contractor’s foreman or another competent representative designated by Contractor.

3.7 FIRE PROTECTION

- A. Contractor must supply approved fire extinguishers for emergency use within its own immediate area of operation, including Contractor’s office, tool and storage enclosures.

3.8 TREATMENT OF INJURIES

- A. Contractor shall require that all employees injured (no matter how slight) while working on Project, report immediately for First Aid treatment. Contractor shall maintain adequate First Aid facilities in the field.

3.9 COOPERATION

- A. Any deviation from this course of action will be called to the attention of Contractor for immediate correction. Conversely, Contractor should call attention to any unsafe conditions or unsafe practice by other contractors at the site.

3.10 INSTALLED SAFETY APPARATUS

- A. Contractor is responsible for the installation of any safety apparatus required to perform Work of Project and for the reinstallation of any safety apparatus installed by other contractors if removed to facilitate the installation of their own work.

3.11 WEAPONS POLICY

- A. All persons are prohibited from carrying, possessing or storing a handgun, firearm, or weapon of any kind while on Project site, including in their personal vehicles, regardless of whether the person has registered the weapon or is licensed to carry a concealed weapon. Failure to abide by all terms and conditions of this policy may result in discipline up to and including termination. Further, carrying any weapon onto Owner’s property in violation of this policy will be considered an act of criminal trespass and possession of a weapon will be grounds for immediate removal of the person from Project site, and may result in prosecution.

3.12 LISTENING DEVICES

- A. The playing of radios or any other type of personal listening devices, using any type of speaker, including, but not limited to, headphones and ear buds, will not be permitted on Project site.

3.13 TOBACCO PRODUCTS

- A. Smoking or the use of any tobacco products and vapor pens on any school district-owned property is a violation of both district policy and State law. Violators caught smoking or using tobacco products will be removed from Project and prosecuted to the fullest extent of the law.

3.14 DRUGS AND ALCOHOL

- A. Any personnel caught possessing or using/consuming illegal drugs or alcoholic beverages on any part of school district-owned property will be removed from Project and will be prosecuted to the fullest extent of the law.

END OF SECTION 014100

SECTION 015000 - TEMPORARY FACILITIES & CONTROLS

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.
- B. Coordinate with Section 011000 Summary of Work section.

1.2 SUMMARY

- A. This Section includes requirements for temporary facilities and controls, including temporary utilities, support facilities, security and protection.
- B. Temporary utilities include, but are not limited to, the following:
 - 1. Temporary water service and distribution.
 - 2. Temporary electrical power service and light.
- C. Support facilities include, but are not limited to, the following:
 - 1. Field offices and storage sheds.
 - 2. Handwashing stations and supplies, hand sanitizer and dispensers, and cleaning and sanitizing requirements.
 - 3. Dewatering facilities.
 - 4. Temporary enclosures.
 - 5. Hoists.
 - 6. Temporary project identification signs and bulletin boards.
 - 7. Waste disposal services.
 - 8. Construction aids and miscellaneous services and facilities.
 - 9. Temporary heat, ventilation and humidification control.
 - 10. Sanitary facilities, including drinking water.
- D. Security and protection facilities include, but are not limited to, the following:
 - 1. Temporary Fire Protection.
 - 2. Barricades, warning signs, and lights.
 - 3. Enclosure and separation fencing for the site work areas
 - 4. Environmental protection.

1.3 DIVISION OF RESPONSIBILITIES

- A. General: These Specifications assign each Prime Contractor specific responsibilities for certain temporary facilities used by other Prime Contractors, and other entities at the Site. Contractor for General Construction is responsible for providing temporary facilities and controls that are

not the normal construction activities of another Prime Contractor, and are not specifically assigned otherwise.

B. Each Prime Contractor is responsible for the following:

1. Installation, operation, maintenance, and removal of each temporary facility usually considered as its own normal construction activity, as well as the costs and use charges associated with each facility unless noted otherwise.
2. Plug-in electric power cords and extension cords, supplementary plug-in task lighting, and special lighting necessary for its own construction activities.
3. Multi-phase power service or power requirements in excess of 120-V, single phase, temporary power. Electric service for welding.
4. Temporary heat, ventilation, humidity control, and enclosure of the building where these facilities are necessary for its own activities but have not yet been installed by the responsible Prime Contractor. Refer to the "Temporary Heat" Paragraph in Part 3 below for additional information.
5. In accordance with all CDC recommendations and any state or federally mandated protocols or requirements, proper cleaning and sanitizing of its own field office, storage sheds, tools, and support facilities for which it is responsible.
6. Containerized bottled-water drinking-water units.
7. Dewatering, including ice and snow removal, for areas specific to its own Work.
8. All hoisting requirements necessary for its own construction activities.
9. Continuous removal and disposal of general construction waste and debris generated by its own construction activities, including providing its own dumpsters.
10. Collection and proper disposal of its own hazardous, dangerous, unsanitary or other harmful waste material.
11. Secure lockup of its own tools, materials and equipment.
12. Construction aids and miscellaneous services and facilities necessary for its own activities.
13. Its own job trailer or field office.
14. Its own storage and fabrication sheds or trailers.
15. Temporary safety facilities necessary for its own construction activities.

C. The General Contractor is responsible for the following:

1. Temporary enclosure of the building.
2. Temporary heat to the extent described in the "Temporary Heat" Paragraph in Part 3 below.
3. All temporary toilets, including disposable supplies.
4. Handwashing stations and hand sanitizer dispensers located in each work area of the site.
5. Temporary ventilation and humidity control upon enclosure of the building (either temporary or permanent) and up to the final stage of the Work of the Project or of any defined phase of the Project (the point where the building is enclosed and the permanent HVAC systems are available to provide the same) in accordance with the HVAC Contractor's responsibilities identified in this Section.
6. Dewatering, including ice and snow removal of the building pad and in areas of foundation excavation and for all general construction activities, within 24 hours of the occurrence requiring the need for dewatering.
7. General security enclosure and lockup of the building.
8. Temporary construction identification signs and temporary site directional signage.

9. Environmental protection for general construction activities.
 10. Temporary stairway construction.
- D. The Site Contractor is responsible for the following:
1. Enclosure fence as required by general construction activities around the stormwater detention basin area. Refer to site drawings for extent.
 2. Dewatering, including ice and snow removal of the building pad and in areas of foundation excavation and for all general construction activities, within 24 hours of the occurrence requiring the need for dewatering.
- E. The HVAC Contractor is responsible for the following:
1. Completion of installation of the permanent heating systems for use as temporary heat and air conditioning, ventilation and humidity control for the final stage of the Work of the Project or of any defined phase of construction. The final stage of the Work shall be as defined below in this Section.
 2. Operation and maintenance of the permanent HVAC systems when used for temporary heat and air conditioning, ventilation and humidity control.
- F. The Plumbing Contractor is responsible for the following:
1. Temporary heat to the extent described in the Paragraph "Temporary Heat" in Part 3 below.
 2. Temporary water service. Prior to temporary utility availability, provide trucked-in service.
- G. The Electrical Contractor is responsible for the following:
1. Temporary electrical power service and distribution for general project use. Prior to temporary utility availability, provide trucked in service.
 2. Temporary electric service to all project field offices.
 3. Temporary lighting.
 4. Temporary heat to the extent described in the Paragraph "Temporary Heat" in Part 3 below.
- 1.4 USE CHARGES
- A. General: Cost or use charges for temporary facilities are not chargeable to Owner or Architect unless specifically noted otherwise. Owner will not accept Contractor's cost or use charges for temporary services or facilities as a basis of claim for an adjustment in the Contract Sum or the Contract Time.
- B. Water Service: Owner will pay water service use charges, for all metered water used by all entities engaged in construction activities at the Project site.
- C. Electric Power Service: Owner will pay electric power service use charges, for all metered electric power used by all entities engaged in construction activities at the Project site. Owner's electric service is NOT permitted to be used for temporary heat or any high voltage purposes such as welding.

- D. Fuel for Temporary Heat: As described in the Temporary Heat paragraph.

1.5 SUBMITTALS

- A. Temporary Utilities: Each Prime Contractor shall submit reports of tests, inspections, meter readings and similar procedures performed on temporary utilities.
- B. Implementation and Termination Schedule: Within 15 days of the date established for submittal of Contractor's Construction Schedule, each Prime Contractor shall submit a schedule indicating implementation and termination dates of each temporary utility for which Contractor is responsible.

1.6 QUALITY ASSURANCE

- A. Regulations: Each Prime Contractor shall comply with industry standards and with applicable laws and regulations of authorities having jurisdiction including, but not limited to, the following:
 - 1. Building code requirements.
 - 2. Health and safety regulations.
 - 3. Utility company regulations.
 - 4. Police, fire department and rescue squad rules.
 - 5. Environmental protection regulations.
- B. Standards: Each Prime Contractor shall comply with NFPA 241 "Standard for Safeguarding Construction, Alterations, and Demolition Operations", ANSI-A10 Series standards for "Safety Requirements for Construction and Demolition", and NECA Electrical Design Library "Temporary Electrical Facilities".
 - 1. Trade Jurisdictions: Assigned responsibilities for installation and operation of temporary utilities are not intended to interfere with the normal application of trade regulations and union jurisdictions.
 - 2. Electrical Service: Comply with NEMA, NECA and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70.
- C. Inspections: Arrange for authorities having jurisdiction to inspect and test each temporary utility before use. Obtain required certifications and permits.

1.7 PROJECT CONDITIONS

- A. Temporary Utilities: Each Prime Contractor shall prepare a schedule indicating dates for implementation and termination of each temporary utility for which Contractor is responsible. At the earliest feasible time, when acceptable to Owner, change over from use of temporary services to use of permanent services.
 - 1. Temporary Use of Permanent Facilities: The Installer of each permanent service shall assume responsibility for its operation, maintenance and protection during use as a construction facility prior to Owner's acceptance, regardless of previously assigned

responsibilities. The installing contractor shall make permanent facilities available in accordance with the approved Contractor's Construction Schedule.

2. Warranty Period: The Warranty Period for the entire project shall begin **on the date of Substantial Completion of the Project, or a designated PRIMARY phase of the Project** regardless of the start-up date for use as a temporary or permanent facility, including but not limited to materials and equipment.

- B. Conditions of Use: Keep temporary services and facilities clean and neat in appearance. Operate in a safe and efficient manner. Relocate temporary services and facilities as the Work progresses. Do not overload facilities or permit them to interfere with progress. Take necessary fire-prevention measures. Do not allow hazardous, dangerous or unsanitary conditions, or public nuisances to develop or persist on-site.

1.8 EXISTING BUILDING SYSTEMS

- A. Contractor, in submitting a bid, certifies that they have familiarized themselves with all existing building conditions and systems encountered. Contractor shall protect and maintain all existing building systems, functions and utilities during the construction period or until new Work replaces the aforementioned.
- B. System Interruption: If there is a need to interrupt any existing building function, utility or system for an extended period of time, Contractor must coordinate this with Owner and provide temporary provisions in advance to replace the interrupted function, utility or system.
- C. Existing Systems, Functions and Utilities: The following is a partial list, which is not all inclusive, of the existing Systems, Functions and Utilities:
 1. Existing electrical service, including all associated systems and functions.
 2. Existing water service, domestic and hot water systems.
 3. Sanitary and storm water systems.
 4. Existing data and communications systems.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. General: Each Prime Contractor shall provide new materials. If acceptable to Owner or Architect, undamaged, previously used materials in serviceable condition may be used. Provide materials suitable for the use intended.
- B. Lumber and Plywood: Comply with the requirements of Division 6 Section "Rough Carpentry".
 1. For job-built temporary offices, shops, and sheds within the construction area, provide UL-labeled, fire-treated lumber and plywood for framing, sheathing, and siding.
 2. For signs and directory boards, provide exterior-type, Grade BB, high-density concrete form grade overlay plywood of sizes and thicknesses indicated.

- C. Tarpaulins: Provide waterproof, fire-resistant, UL-labeled tarpaulins with flame-spread rating of 15 or less. For temporary enclosures, provide translucent, nylon-reinforced, laminated polyethylene or polyvinyl chloride, fire-retardant tarpaulins.
- D. Water: Provide potable water approved by local health authorities.
- E. Open-Mesh Fencing (Portable): Provide 0.12-inch thick, galvanized 2-inch chain-link fabric fencing 6 feet high on portable frames with self-standing T-foot posts

2.2 EQUIPMENT

- A. General: Each prime contractor shall provide new equipment. If acceptable to Owner or Architect, undamaged, previously used equipment in serviceable condition may be used. Provide equipment suitable for the use intended.
- B. Water Hoses: Provide 3/4-inch heavy-duty, abrasion-resistant, flexible rubber hoses 100 feet long, with pressure rating greater than the maximum pressure of the water distribution system. Provide adjustable shutoff nozzles at point of hose discharge.
- C. Electrical Outlets: Provide properly configured, NEMA-polarized outlets to prevent insertion of 110- to 120-V plugs into higher voltage outlets. Provide 120-V, single phase, ground-fault outlets at 100' on center in corridor areas and spaces larger than 800 square feet. Provide receptacle outlets equipped with ground-fault circuit interrupters, reset button, and pilot light for connection of power tools and equipment.
- D. Electrical Power Cords: Provide grounded extension cords. Use hard-service cords where exposed to abrasion and traffic. Provide waterproof connectors to connect separate lengths of electric cords if single lengths will not reach areas where construction activities are in progress. Do not exceed safe length-voltage ratio.
- E. Lamps and Light Fixtures: Provide general service lamps of wattage required for adequate illumination. At a minimum, install weatherproof sockets complete with lamps at 20' on center in all corridor areas, circulation areas and all spaces over 400 square feet. Provide guard cages or tempered-glass enclosures where exposed to breakage. Provide exterior fixtures where exposed to moisture.
- F. Heating Units: Provide temporary heating units that have been tested and labeled by UL, FM or another recognized trade association related to the type of fuel being consumed.
- G. Temporary Offices: Each Prime Contractor shall provide its own prefabricated or mobile units with lockable entrances, operable windows and serviceable finishes.
 - 1. The General Contractor, if their temporary office trailer is not sufficiently sized to accommodate the needs of regular job conferences, shall provide and maintain, in addition to their job trailer, a meeting trailer for such use, for the duration of the Project. The meeting trailer shall be complete with a heating and air-conditioning unit capable of maintaining a temperature range of between 70 deg. F and 75 deg. F year-round. At a minimum, include the following fixtures, furniture and equipment:

- a. Conference table to comfortably accommodate at least twelve (12) adults
 - b. Twenty (20) chairs
 - c. One (1) water cooler
 - d. One (1) copier/scanner
 - e. Four (4) trash receptacles
 - f. Blinds for each window
 - g. Three (3) desks, one (1) drafting table, one (1) plan rack
 - h. Two (2) 36" x 48" dry erase boards
- 2. The General Contractor shall provide all required electrical. Use charges for all metered electrical will be paid by Owner.
- 3. Provide daily housekeeping services, provide snow removal services and relocate the field office trailer to a secondary location should the original location serve to impede the progress and/or completion of the Project.
- H. Temporary Toilet Units: Provide self-contained, single-occupant toilet units of the chemical, aerated recirculation or combustion type. Provide units properly vented and fully enclosed with a glass-fiber-reinforced polyester shell or similar non-absorbent material.
- I. Handwashing Stations: Provide at a minimum, self-contained handwashing stations complete with clean, potable water, soap and disposable towels.
- J. Hand Sanitizing Stations: Provide self-contained hand sanitizer dispensers complete with hand sanitizer.
- K. Fire Extinguishers: Provide hand-carried, portable, UL-rated, Class A fire extinguishers for temporary offices and similar spaces. In other locations, provide hand-carried, portable, UL-rated, Class ABC, dry-chemical extinguishers or a combination of extinguishers of NFPA-recommended classes for the exposures.
 - 1. Comply with NFPA 10 and NFPA 241 for classification, extinguishing agent and size required by location and class of fire exposure.
- L. First Aid Supplies: Comply with regulations of authorities having jurisdiction.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Use qualified personnel for the installation of temporary facilities. Locate facilities where they will serve the Project adequately and result in minimum interference with performance of the Work. Relocate and modify facilities as required.
- B. Each Prime Contractor shall provide each facility ready for use when needed to avoid delay. Maintain and modify as required. 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: Engage the appropriate local utility company to install temporary service or connect to existing service. Where the utility company provides only part of the service, provide the remainder with matching, compatible materials and equipment. Comply with utility company recommendations.
 - 1. Arrange with the utility company and existing users for a time when service can be interrupted, if necessary, to make connections for temporary services.
 - 2. Provide adequate capacity at each stage of construction. Prior to temporary utility availability, provide trucked-in services.
- B. Water Service: Install water service and distribution piping of sizes and pressure adequate for construction until permanent water service is in use.
- C. Temporary Electric Power Service: Provide weatherproof, grounded electric power service and distribution system of sufficient size, capacity and power characteristics during construction period. Include meters, transformers, overload-protected disconnects, automatic ground-fault interrupters and main distribution switch gear.
 - 1. Power Distribution System: Install wiring overhead and rise vertically where least exposed to damage. Where permitted, wiring circuits not exceeding 125 V, ac 20 ampere rating, and lighting circuits may be nonmetallic sheathed cable where overhead and exposed for surveillance.
- D. Temporary Lighting: When an overhead floor or roof deck has been installed, provide temporary lighting with local switching.
 - 1. Install and operate temporary lighting that will fulfill security and protection requirements without operating the entire system. Provide temporary lighting to the greater of that required by OSHA or to a minimum level of 20 fc, and that will provide adequate illumination for construction operations and traffic conditions.
- E. Temporary Heat: As described in the Temporary Heat paragraph below.
- F. Heating Facilities: As described in the Temporary Heat paragraph below.
- G. Sanitary Facilities: Sanitary facilities include temporary toilets, wash facilities, and drinking-water fixtures. Comply with regulations and health codes for the type, number, location, operation and maintenance of fixtures and facilities. Install where facilities will best serve the Project's needs.
 - 1. Provide toilet tissue, paper towels, paper cups and similar disposable materials for each facility. Provide covered waste containers for used material.
- H. Toilets: Install self-contained toilet units. Shield toilets to ensure privacy. Use of pit-type privies will not be permitted.
 - 1. Provide separate facilities for male and female personnel.

- I. Environmental Protection: In addition to the provisions indicated on the drawings, provide earthen embankments and similar barriers in and around excavations and sub-grade construction, sufficient to prevent flooding by runoff of storm water from heavy rains.

3.3 TEMPORARY HEAT

- A. Temporary Heat: Provide temporary heat required by construction activities, for curing or drying of completed installations, or protection of installed construction from adverse effects of low temperatures or high humidity. Select safe equipment that will not have a harmful effect on completed installations or elements being installed. Coordinate ventilation requirements to produce the ambient conditions required and minimize consumption of energy.
 1. Provide temporary heat at varying stages of the Project to allow construction operations to proceed in an orderly, sequential manner. **The following stages are milestones that must be clearly identified on Contractor's Construction Schedule** as described in Division 1 Section "Construction Progress Documentation." The stages of the project are defined as follows:
 - a. Early Stage: The duration of the Project from the start of construction to enclosure of the building. During this stage, each Prime Contractor is responsible to provide temporary heat and any temporary enclosure required to contain the heated air necessary for its own construction activities. Each Prime Contractor is responsible to furnish the equipment and fuel for their own temporary heating.
 - b. Intermediate Stage: The duration of the Project from the time the building is wholly or partially enclosed as determined solely by Architect but prior to the operation of the permanent HVAC equipment for construction heating. During this stage, the General Contractor shall provide temporary heating to establish an ambient air temperature and appropriate humidity level in the building, or portion thereof, to maintain construction activities for all Prime Contractors, including the provision of necessary equipment and fuel. A minimum ambient air temperature of 50 degrees must be capable of being maintained throughout the area of Work receiving temporary heat and humidity control. Maintain an appropriate humidity level acceptable to material manufacturers for the installation of materials and finishes.
- B. Final Stage: The duration of the Project after building enclosure is attained and the permanent HVAC equipment is available to provide temporary heat, air conditioning, ventilation, and humidity control as determined solely by Architect. The Final Stage of construction shall be achieved at least 90 days prior to the date of Substantial Completion of each area of the building or phase of construction as noted in the "Division of Responsibilities" Paragraph above. An ambient air temperature of 70 degrees F must be capable of being maintained uniformly. The HVAC Contractor is responsible to provide start-up, maintenance and operation of all permanent HVAC units and provide temporary automatic temperature control wiring and devices to properly regulate the permanent devices. Further, the HVAC Contractor shall protect all ductwork, and shall install temporary filter media with a minimum rating of MERV 8 according to ASHRAE 52.2, at every return grill or air inlet to the air handling system. All temporary filters shall be fully sealed around the perimeter to seal off any dust from entering the return ductwork. All duct protection measures shall be reviewed with the CxA prior to starting up the units for use as temporary heat. Replace all filters immediately prior to Building Occupancy. Owner will

pay all use charges and fuel costs for temporary heat during the Final Stage of construction. The Electrical Contractor is responsible to have all permanent HVAC units that will provide temporary heat, wired with their required power with service disconnects and all other NEC requirements. If power cannot be provided using the permanent electrical panel, wiring or distribution, then the Electrical Contractor must provide temporary means to meet the needs of the units. The Plumbing Contractor is responsible to have all permanent gas-fired HVAC units that will be used to provide temporary heat, connected to a source for gas that will provide the necessary pressure and volume to operate the units as if they are in normal use, including compliance with applicable codes. If gas cannot be provided using the permanent gas system for the building, then the Plumbing Contractor must provide temporary means to meet the needs of the units.

1. Temporary heat shall be initiated and maintained to allow the performance of Work for which a particular minimum ambient temperature must be maintained to meet the criteria described in individual sections of the technical specifications and as set forth by manufacturer's recommendations.
2. Temporary heat shall be provided to ensure that construction activities conform with Contractor's Construction Schedule and to the scheduling sequence established by the Lead Contractor and as further directed by Architect.
3. The term "building enclosure" refers to a level of completion of the building, or a designated portion thereof, that consists of the following:
 - a. Construction of roof structure, roof, insulation and roofing membrane
 - b. Construction of back-up masonry or exterior metal studs with exterior sheathing
 - c. Temporary enclosure of exterior wall openings. Refer to the "Temporary Enclosures" paragraph below for additional information.

C. Heating Facilities: Except where use of the permanent system is noted above, provide properly vented, self-contained LP gas or natural gas heaters with individual space thermostatic control.

1. Use of gasoline, oil or kerosene fueled space heaters is prohibited.

3.4 SUPPORT FACILITIES INSTALLATION

- A. Storage and Fabrication Facilities: Install storage and fabrication sheds or mobile trailers, sized, furnished and equipped to accommodate materials and equipment involved. Facilities may be open shelters or fully enclosed.
- B. Drinking Water Facilities: Provide containerized tap dispenser bottled water type drinking water units, including disposable paper supply.
- C. Handwashing and Hand Sanitizer Stations: In accordance with all CDC recommendations and any state or federally mandated protocols or requirements, locate handwashing stations and hand sanitizer dispensers, reasonably accessible to all workers, and at a minimum, in all active work areas of the Project.
- D. Dewatering Facilities and Drains: Maintain the site, excavations and construction free of water, ice and snow.

- E. Temporary Enclosures: Provide temporary enclosure for protection of construction in progress and completed, from exposure, foul weather, other construction operations and similar activities.
 - 1. Where heat is needed and the permanent building enclosure is not complete, provide temporary enclosures where there is no other provision for containment of heat. Coordinate enclosure with ventilating and material drying or curing requirements to avoid dangerous conditions and effects.
 - 2. Install tarpaulins securely, with non-combustible wood framing and other materials. Close openings of 25 square feet or less with plywood or similar materials.
 - 3. Close openings through floor or roof decks and horizontal surfaces with load bearing wood framed construction.
- F. Temporary Lifts and Hoists: Provide facilities for hoisting materials and employees. Truck cranes and similar devices used for hoisting materials are considered "tools and equipment" and not temporary facilities.
- G. Project Identification and Temporary Signs: Prepare project identification and other signs of the size indicated; install where indicated to inform the public and persons seeking entrance to the Project. Support on posts or framing of preservative treated wood or steel. Do not permit installation of unauthorized signs.
 - 1. Project Identification Signs: Engage an experienced sign painter to apply graphics. Comply with details indicated.
- H. Collection and Disposal of Waste: Collect waste from construction areas and elsewhere daily. Comply with requirements of NFPA 241 for removal of combustible waste material and debris. Enforce requirements strictly. Do not hold materials more than 7 days during normal weather or 3 days when the temperature is expected to rise above 80 deg F. Handle hazardous, dangerous or unsanitary waste materials separately from other waste by containerizing properly. Dispose of material in a lawful manner.
- I. Temporary Stairs: Until permanent stairs are available, provide temporary stairs where ladders are not adequate. Cover finished permanent stairs with a protective covering of plywood or similar material so finishes will be undamaged at the time of acceptance.
- J. Locate field offices, storage sheds, sanitary facilities and other temporary construction and support facilities for easy access. If not indicated on the drawings, verify temporary facility locations with Owner prior to installation.
 - 1. Maintain support facilities until near Substantial Completion.

3.5 SECURITY AND PROTECTION FACILITIES INSTALLATION

- A. General: Except for use of permanent fire protection as soon as available, do not change over from use of temporary security and protection facilities to permanent facilities until Substantial Completion, or longer as requested by Architect.

- B. Temporary Fire Protection: Until fire-protection needs are supplied by permanent facilities, install and maintain temporary fire-protection facilities of the types needed to protect against reasonably predictable and controllable fire losses. Comply with NFPA 10, "Standard for Portable Fire Extinguishers," and NFPA 241, "Standard for Safeguarding Construction, Alterations, and Demolition Operations."
1. Locate fire extinguishers where convenient and effective for their intended purpose, but not less than one extinguisher on each floor at or near each usable stairwell.
 2. Maintain unobstructed access to fire extinguishers, fire hydrants, temporary fire-protection facilities, stairways and other access routes for fighting fires. Prohibit smoking in hazardous fire-exposure areas.
 3. Provide supervision of welding operations, combustion-type temporary heating units and similar sources of fire ignition.
- C. Permanent Fire Protection: At the earliest feasible date in each area of the Project, complete installation of the permanent fire-protection facility, including connected services, and place into operation and use. Instruct key personnel on use of facilities.
- D. Storage of Flammable and Combustible Materials and Liquids: Comply with NFPA 241, "Standard for Safeguarding Construction, Alterations, and Demolition Operations" and NFPA 30, "Flammable and Combustible Liquid Code"
1. Storage: Store flammable and combustible materials and liquids in weathertight, ventilated and secure facilities outside of the building. Provide temporary fire protection facilities of the types needed to protect against reasonably predictable and controllable fire and losses.
- E. Enclosure Fence: When excavation begins, install a lockable entrance gate and post "No Trespassing" signs at 50' on center around the site perimeter.
- F. Security Enclosure and Lockup: Install substantial temporary enclosure of partially completed areas of construction. Provide locking entrances to prevent unauthorized entrance, vandalism, theft and similar violations of security.
1. Storage: Where materials and equipment must be stored, and are of value or attractive for theft, provide secure lockup. Enforce discipline in connection with the installation and release of material to minimize the opportunity for theft and vandalism.
- G. Environmental Protection: Provide protection, operate temporary facilities and conduct construction in ways and by methods that comply with environmental regulations, and minimize the possibility that air, waterways, and subsoil might be contaminated or polluted or that other undesirable effects might result. Avoid using tools and equipment that produce harmful noise. Restrict use of noise-making tools and equipment to hours that will minimize complaints from persons, homes or businesses near the site.

3.6 OPERATION, TERMINATION, AND REMOVAL

- A. Supervision: Enforce strict discipline in the use of temporary facilities. Limit availability of temporary facilities to essential and intended uses to minimize waste and abuse.
- B. Maintenance: Maintain facilities in good operating condition until removal. Protect from damage by freezing temperatures and similar elements.
 - 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.
 - 2. Protection: Prevent water-filled piping from freezing. Maintain markers for underground lines. Protect from damage during excavation operations.
- C. Termination and Removal: Unless Owner requests that it be maintained longer, remove each temporary facility when the need has ended, when 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 the 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 the property of each Prime Contractor. Owner reserves the right to take possession of project identification signs.
 - 2. Remove temporary paving not intended for or acceptable for integration into permanent paving. Where the area is intended for landscape development, remove soil and aggregate fill that do not comply with requirements for fill or subsoil in the area. 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 the temporary entrances, as required by the governing authority.
 - 3. At Substantial Completion, clean and renovate permanent facilities used during the construction period including, but not limited to, the following:
 - a. Replace air filters and clean inside of ductwork and housings.
 - b. Replace significantly worn parts and parts subject to unusual operating conditions.
 - c. Replace lamps burned out or noticeably dimmed by hours of use.

END OF SECTION 015000

SECTION 017200 - PROJECT RECORD DOCUMENTS

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 Project Record Documents.
 - B. Project Record Documents required include the following:
 - 1. Copies of Record Drawings.
 - 2. Record Samples.
 - C. Related Sections: The following Sections contain requirements that relate to this Section:
 - 1. Division 1 Section "Submittals" specifies general requirements for preparing and submitting Project Record Documents.
 - 2. Division 1 Section "Operation and Maintenance Data" specifies requirements regarding submittal of operation and maintenance manuals.
 - 3. Division 1 Section "Contract Closeout" specifies general closeout requirements.
 - 4. Divisions 2 through 33 Sections for specific Project Record Document requirements.
 - D. Multiple Prime Contracts: Each prime contractor is responsible for obtaining, maintaining, and recording Project Record Document information for its own work. Contractor for General Construction is responsible for coordinating information, where information from more than one prime contractor is to be integrated with information from other prime contractors to form one combined record.
 - E. Maintenance of Documents and Samples: Store Project Record Documents and Samples in field office apart from Contract Documents used for construction. Do not use Project Record Documents for construction purposes. Maintain record documents in good order and in a clean, dry, legible condition. Make Project Record Documents and Samples available at all times for Architect's and Owner's inspection.
- #### 1.3 RECORD DRAWINGS
- A. Markup Procedures: During construction, maintain a set of black-line white prints of Contract Documents and Shop Drawings for Project Record Document purposes. Do not use record documents for construction purposes. Protect Project Record Documents from deterioration and loss in a secure, fire-resistant location. Provide access to Project Record Documents for Architect's reference during normal working hours.

1. Mark drawings to show the actual installation where the installation varies from the installation shown on Contract Documents. Give particular attention to information on concealed elements that would be difficult to identify or measure and record later. Items required to be marked include, but are not limited to, the following:
 - a. Dimensional changes to Drawings.
 - b. Revisions to details shown on Drawings.
 - c. Depths of foundations below the first floor.
 - d. Locations and depths of underground utilities.
 - e. Revisions to routing of piping and conduits.
 - f. Revisions to electrical circuitry.
 - g. Actual equipment locations.
 - h. Duct sizes and routing.
 - i. Locations of concealed internal utilities.
 - j. Changes made by Change Order or Construction Change Directive.
 - k. Changes made following Architect's written orders.
 - l. Details not on original Contract Documents.
 2. Mark record prints of Contract Documents or Shop Drawings, whichever is most capable of showing actual physical conditions, completely and accurately. Where Shop Drawings are marked, show cross-reference on Contract Document location.
 3. Mark record sets with red erasable colored pencil. Use other colors to distinguish between changes for different categories of the work at the same location.
 4. Mark important additional information that was either shown schematically or omitted from original Drawings.
 5. Note Construction Change Directive numbers, alternate numbers, Change Order numbers, and similar identification.
- B. Responsibility for Markup: Contractor shall prepare the Project Record Documents.
1. Accurately record information in an understandable drawing technique.
 2. Record data as soon as possible after obtaining it. Record and check the markup prior to enclosing concealed installations.
 3. At the time of Substantial Completion, submit record drawings to Architect for Owner's records. Organize Drawings into sets and bind and label sets for Owner's continued use.
- C. Copies and Distribution: Print two (2) black line prints of each drawing, whether changes and additional information were recorded or not. Organize the copies into manageable sets. Bind each set with durable-paper cover sheets. Clearly label the cover sheet "PROJECT RECORD DOCUMENTS" along with other appropriate identification, including, dates.
1. Organize and bind the original marked-up set of prints that were maintained during the construction period in the same manner.
 2. Organize print sets. Place sets in durable tube-type drawing containers with end caps. Mark the end cap of each container with suitable identification.
 3. Submit original marked-up record sets and two (2) copy sets to Architect for Owner's records.

1.4 RECORD SAMPLE SUBMITTAL

- A. Immediately prior to the date of Substantial Completion, meet with Owner at Project site to determine which of the samples maintained during the construction period shall be transmitted to Owner for record purposes. Comply with Architect's instructions for packaging, identification marking, and delivery to Owner's sample storage space. Dispose of other Samples in a manner specified for disposing surplus and waste materials.

1.5 MISCELLANEOUS RECORD SUBMITTALS

- A. Refer to individual Specification Sections in Divisions 2 through 33 for additional record-keeping requirements and submittals in connection with various construction activities. Immediately prior to Substantial Completion, complete miscellaneous records and place in good order, properly identified and bound or filed, ready for use and reference. Submit to Architect for Owner's records.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION

3.1 RECORDING

- A. Post changes and modifications to the Documents as they occur. Do not wait until the end of the Project.

END OF SECTION 017200



Crabtree, Rohrbaugh & Associates - Architects

401 East Winding Hill Road

Mechanicsburg, PA 17055

Pennsylvania • Virginia • Maryland • West Virginia

July 3, 2026

Sandy Tucker, Business Manager
121 Hess Street
Quarryville, PA 17566

RE: New District Administrative Offices and Athletic Fields
CRA Project No. 3706

Dear Sandy,

The purpose of this letter is to call your attention to the way the Contract Documents for your project are being prepared to head off delays in closing out construction and to achieving your final acceptance of the Work. Specification Section 017700 "Contract Closeout" defines each of the required tasks and procedures for project completion such as punch lists, and both substantial completion and final acceptance inspections. Specification Section 000750 "Supplementary General Conditions" is set up with a Liquidated Damages clause of \$1,500 per day, per prime contractor if the Contractor doesn't achieve substantial completion within the project duration defined in the General Conditions. These liquidated damages policy provides an incentive to the Contractor to maintain the project schedule.

Substantial Completion is defined as the point in which your project can be used for its intended purpose and is the start date of your project warranty. It is for this reason that the liquidated damages clause is tied to substantial completion and not to final acceptance. Final Acceptance is defined as the point when all Contract Work, including punch lists has been completed to your satisfaction. Final Acceptance should under normal circumstances be attained within 60 days of Substantial Completion, or in the case of phased projects, within 60 days of Substantial Completion of a specific phase of the Work. These terms, and a specific number of calendar days for both Substantial Completion and Final Acceptance are included in your project's Contract Documents.

The period between Substantial Completion and Final Acceptance is defined in "Contract Closeout" as 60 days, which if the project is truly substantially complete, is adequate. However, this closeout phase can sometimes take much longer because by this point, the Contractor has received the bulk of their Contract Sum, and their manpower has moved on to other projects. These delays often result in significant additional time and additional on-site meetings by the Architect and the Owner, which can result in additional fees and costs, not to mention significant frustrations for everyone involved.

Crabtree, Rohrbaugh & Associates assures you that we will spend whatever time is necessary to assist you through the closeout process to achieve your satisfaction, however, contractually, if Final Acceptance is delayed by the Contractor, CRA's additional time could warrant additional services. In as much as these delays are often outside of both CRA's and your control, our Contract with you includes language relative to closeout, and provides for 60 days of basic services beyond Substantial Completion for the Contractor to complete all punch list work, and to achieve Final Acceptance. If this should occur, additional costs could be invoiced according to the terms of our Contract. The Contract Closeout Section in the

specifications we're writing on your behalf includes language that the Owner reserves the right to withhold payment from the Contractor for delays in closing out the project, should you choose to pursue this approach.

Please do not hesitate to call me if you have any questions.

Sincerely,

CRABTREE, ROHRBAUGH & ASSOCIATES

Lawrence P. Levato, AIA, REFP, LE Fellow
Principal, Studio Director

Encl. Section 017700 "Contract Closeout"

SECTION 017700 - CONTRACT CLOSEOUT

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 Contract Closeout including, but not limited to, the following:
 - 1. Inspection procedures.
- B. Closeout requirements for specific construction activities are included in the appropriate Sections in Divisions 2 through 33.
- C. Related Sections: The following Sections contain requirements that relate to this Section.
 - 1. Division 1 Section "Applications for Payment" for information regarding the application which first follows Substantial Completion, and for information regarding the Final Application for Payment.
 - 2. Division 1 Section "Final Cleaning" for additional information regarding project closeout, cleaning and punch list requirements.
- D. In the event that Additional Services by Architect are made necessary by the actions or inactions of Contractor, such as failure to meet Substantial Completion or Final Acceptance of the Work within the timeframes required by the Contract Documents, Owner reserves the right to withhold payment from Contractor at the hourly rates noted in Architect's Agreement with Owner.

1.3 CONTRACTOR'S PUNCH LIST AND TIME FOR COMPLETION

- A. General: Contractor's Punch List is a comprehensive list of observed items requiring completion or correction, prepared by each prime contractor for their Work.
- B. In an electronic format acceptable to Architect, (i.e. PlanGrid, Procore, Bluebeam, etc.), list a description of the item to be corrected, its location, the date and the subcontractor responsible for completing or correcting the item.
- C. Except for items whose completion is delayed under circumstances as determined acceptable solely by Architect, it is a requirement of Project that ALL punch list items, from both Contractor's and Architect's Punch Lists, be completed or corrected by Contractor within 60 days of the date established by Architect for Substantial Completion.

1.4 SUBSTANTIAL COMPLETION

- A. Definition: Substantial Completion is the stage in the progress of the Work when the Work, or designated portion thereof of the Work, is sufficiently complete AND final cleaned in accordance with the requirements of the Contract Documents to permit Owner to occupy or utilize the area of work for its intended purpose and use.
- B. Preliminary Procedures: Before requesting inspection for a Certificate of Substantial Completion, complete all the following tasks. List ALL exceptions in writing, in the request.
1. On the Application for Payment that first follows the date Substantial Completion is claimed, show 100% complete for all portions of the work claimed as being substantially complete.
 - a. Include supporting documentation for completion as indicated in the Contract Documents, and a statement showing an accounting of changes to the Contract Sum.
 - b. If 100% completion cannot be shown, include a Punch List of incomplete items, the value of the incomplete construction, and reasons why the work is not complete.
 2. Advise Owner of pending insurance changeover requirements.
 3. Submit specific warranties, workmanship bonds, maintenance agreements, final certifications, and similar documents.
 4. Obtain and submit releases enabling Owner unrestricted use of the work, and access to services and utilities. Include occupancy permits, operating certificates, and similar releases.
 5. Submit Project Record Documents, Operation and Maintenance Manuals, damage or settlement surveys, property surveys and similar final record information.
 6. Deliver tools, spare parts, extra stock, and similar items to Owner.
 7. Make final changeover of permanent locks and transmit keys to Owner. Advise Owner's personnel of changeover in security provisions.
 8. Complete startup testing of systems and instruction and training to Owner's operation and maintenance personnel. Discontinue and remove temporary facilities from the 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.
- C. Contractor's Punch List Requirements: When Contractor considers that the Work, or a portion thereof in accordance with the accepted Project Phasing Schedule, is substantially complete, and before Architect will inspect the Work or issue a Certificate of Substantial Completion, Contractor shall submit a Punch List for review of observed items requiring completion or correction prior to final payment. Failure to include an item does not alter the responsibility of Contractor to complete all Work in accordance with the requirements of the Contract Documents.
1. Owner reserves the right to withhold payment from Contractor to cover Architect's additional inspection costs, both direct and indirect, if Project is not defined as phased construction in the Contract Documents, and Contractor requests that a portion of Project be inspected by Architect to be deemed substantially complete.

- D. Inspection Procedures: Upon request by Contractor for inspection, and receipt of Contractor's Punch List, Architect will either proceed with the requested inspection to determine whether the Work or designated portion thereof is substantially complete or advise Contractor of unfulfilled requirements. If Architect's inspection discloses any item, whether included on Contractor's Punch List or not, which is not sufficiently complete in accordance with the requirements of the Contract Documents to allow Owner to occupy or utilize the Work or designated portion thereof for its intended use, Contractor shall, before issuance of the Certificate of Substantial Completion by Architect, complete or correct such item.
1. Architect will prepare the Certificate of Substantial Completion following successful inspection, or advise Contractor of construction that must be completed or corrected before the certificate will be issued.
 2. Owner reserves the right to withhold payment from Contractor to cover Architect's additional inspection costs, both direct and indirect, if reinspection is necessary to assure Substantial Completion. Following successful reinspection, Architect will prepare a Certificate of Substantial Completion. If the Work is still not Substantially Complete, Architect will advise Contractor of its obligations that have not been fulfilled and which are still required for Substantial Completion.
 - a. If necessary, the reinspection will be repeated, with Owner reserving the same rights to withhold payment from Contractor to cover the Architect's reinspection costs.
 - b. Results of the completed inspection will form the basis of requirements for Final Acceptance.

1.5 FINAL ACCEPTANCE

- A. Preliminary Procedures: Before requesting final inspection and final payment, complete all the following tasks. List ALL exceptions in writing, in the request.
1. Submit the final payment request with releases and supporting documentation not previously submitted and accepted. Include insurance certificates for products and completed operations where required.
 2. Submit an updated final statement, accounting for final additional changes to the Contract Sum.
 3. Submit a copy of Contractor's Punch List of items to be completed or corrected, prepared at the time of Substantial Completion, endorsed, and dated by Contractor. This copy of Contractor's Punch List shall state that each item has been completed or otherwise resolved for acceptance.
 4. Submit consent of surety to final payment.
 5. Submit evidence of final, continuing insurance coverage complying with insurance requirements.
- B. Final Inspection Procedures: Upon receipt of the endorsed copy of Contractor's Punch List, and a written request by Contractor for final inspection, Architect will either proceed with the inspection, or advise Contractor of unfulfilled requirements.

1. Architect will either endorse and date the completed Contractor's Punch List following final inspection or advise Contractor of construction that must be completed or corrected before Final Acceptance.
2. Owner reserves the right to withhold payment from Contractor to cover Architect's additional inspection costs, both direct and indirect, if reinspection is necessary to assure Final Acceptance of the Work. If the Work is still not finally complete, Architect will advise the Contractor of its obligations that have not been fulfilled and which are still required for Final Acceptance.
 - a. If necessary, the reinspection will be repeated, with Owner reserving the same rights to withhold payment from Contractor to cover the Architect's reinspection costs.

PART 2 - PRODUCTS (Not Applicable)

PART 3 – EXECUTION

3.1 CLOSEOUT PROCEDURES

- A. Operation and Maintenance Instructions: Arrange for the Installer of each piece of equipment that requires regular maintenance to meet with Owner's personnel to provide instruction in the proper operation and maintenance of the installed equipment. Provide instruction by manufacturer's representatives if installers are not experienced in the operation and maintenance procedures. Include a detailed review of the following items:
 1. Maintenance manuals.
 2. Project record documents.
 3. Spare parts and materials.
 4. Tools.
 5. Lubricants.
 6. Fuels.
 7. Identification systems.
 8. Control sequences.
 9. Hazards.
 10. Cleaning.
 11. Warranties and bonds.
 12. Maintenance agreements and similar continuing commitments.
- B. As part of the instruction for operating equipment, demonstrate the following procedures:
 1. Startup.
 2. Shutdown.
 3. Emergency operations.
 4. Noise and vibration adjustments.
 5. Safety procedures.
 6. Economy and efficiency adjustments.
 7. Effective energy utilization.

END OF SECTION 017700

SECTION 017800 - FINAL CLEANING

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 final cleaning at Substantial Completion.
- B. Related Sections: The following Sections contain requirements that relate to this Section:
 - 1. Division 1 Section "Temporary Facilities & Controls" specifies general cleanup and waste removal requirements.
 - 2. Division 1 Section "Contract Closeout" specifies general contract closeout requirements.
 - 3. Special cleaning requirements for specific construction elements are included in appropriate Divisions 2 through 33 Sections.
- C. Multiple Prime Contracts: Each prime contractor is responsible for final cleaning of their own Work. Contractor for General Construction is responsible for coordinating final cleaning of an area or piece of equipment where more than one prime contractor is involved.
- D. Environmental Requirements: Conduct cleaning and waste-disposal operations in compliance with local laws and ordinances. Comply fully with federal and local environmental and anti-pollution regulations.
 - 1. Do not dispose of volatile wastes such as mineral spirits, oil or paint thinners, in storm or sanitary drains.
 - 2. Burning or burying of debris, rubbish or other waste material on the premises is not permitted.

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 services. Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit of work to the condition expected from a commercial building cleaning and maintenance program. Comply with Manufacturer's instructions.
- B. Complete the following cleaning operations before requesting inspection for Substantial Completion for Project or a portion of Project.
 - 1. Clean Project Site, yard and grounds in areas disturbed by construction activities, including landscape development areas, of rubbish, waste material, litter, and foreign substances.
 - 2. Sweep paved areas broom clean. Rake grounds that are neither planted nor paved to a smooth, even-textured surface.
 - 3. Remove petrochemical spills, stains, and other foreign deposits.
 - 4. Remove tools, construction equipment, machinery, and surplus material from the site.
 - 5. Remove snow and ice to provide safe access to the building.
 - 6. 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.
 - 7. Clean all cabinetry and countertops, including the insides of all cabinets and drawers.
 - 8. Remove debris and surface dust from limited access spaces including roofs, plenums, shafts, trenches, equipment vaults, manholes, attics and similar spaces.
 - 9. Broom clean concrete floors in unoccupied spaces.
 - 10. Vacuum clean carpet and similar soft surfaces removing debris and excess nap. Shampoo, if required.
 - 11. Clean transparent materials, including mirrors and glass in doors and windows. Remove glazing compounds and other substances that are noticeable vision-obscuring materials. Replace chipped or broken glass and other damaged transparent materials. Polish mirrors and glass, taking care not to scratch surfaces.
 - 12. Remove all non-permanent labels.
 - 13. Touch up and otherwise repair and restore marred, exposed finishes and surfaces. Replace finishes and surfaces that cannot be satisfactorily repaired or restored or that already show evidence of repair or restoration.
 - a. Do not paint over "UL" and similar labels including mechanical and electrical nameplates.
 - 14. Wipe surfaces of mechanical and electrical equipment, elevator equipment, and similar equipment. Remove excess lubrication, paint and mortar droppings, and other foreign substances.
 - 15. Clean plumbing fixtures to a sanitary condition, free of stains, including stains resulting from water exposure.
 - 16. Replace disposable air filters and clean permanent air filters. Clean exposed surfaces of diffusers, registers and grills.
 - 17. Clean ducts, blowers and coils if units were operated without filters during construction.

18. Clean food-service equipment to a sanitary condition, ready and acceptable for its intended use.
 19. Clean light fixtures, lamps, globes, and reflectors to function with full efficiency. Replace burned-out bulbs and defective components.
 20. Leave Project clean and ready for occupancy.
- C. Removal of Protection: Remove temporary protection and facilities installed during construction to protect previously completed installations during the remainder of the construction period.
- D. Compliances: Comply with governing regulations and safety standards for cleaning operations. Remove waste materials from the site and dispose of lawfully.
1. Where extra materials of value remain after completion of associated work, they become Owner's property. Dispose of these materials as directed by Owner.

END OF SECTION 017800

SECTION 017823 - OPERATION AND MAINTENANCE DATA

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 operation and maintenance manuals, including the following:
 - 1. Preparing and submitting operation and maintenance manuals for building operating systems and equipment.
 - 2. Preparing and submitting instruction manuals covering the care, preservation, and maintenance of architectural products and finishes.
 - 3. Instruction of Owner's operating personnel in the operation and maintenance of building systems and equipment.
- B. Related Sections: The following Sections contain requirements that relate to this Section:
 - 1. Division 1 Section "Submittals" specifies preparation of Shop Drawings and Product Data.
 - 2. Division 1 Section "Contract Closeout" specifies general closeout requirements.
 - 3. Appropriate Sections of Divisions 2 through 33 specify special operation and maintenance data requirements for specific pieces of equipment or building operating systems.
- C. Multiple Prime Contracts: Preparation of operation and maintenance manuals includes collecting material, collating and binding material and submitting data. Each prime contractor shall prepare operation and maintenance data for its own installations.
 - 1. Where operation and maintenance manuals include information on installations by Contractor for General Construction and another contractor, Contractor for General Construction shall prepare the manuals.
 - 2. Where operation and maintenance manuals include information on installations by more than one prime contractor, other than Contractor for General Construction, Contractor who is the principal source of information, as determined by Architect, shall receive information furnished by other contractors and prepare the manuals.
 - 3. Where instruction in operation and maintenance procedures on equipment and systems involves participation of more than one Contractor, Contractor designated by Architect as the principal instructor shall coordinate with the other contractors for a mutually agreeable time to provide instruction to Owner's operation and maintenance personnel.

1.3 QUALITY ASSURANCE

- A. Maintenance Manual Preparation: In preparation of maintenance manuals, use personnel thoroughly trained and experienced in operation and maintenance of the equipment or system involved.
 - 1. Where maintenance manuals require written instructions, use personnel skilled in technical writing where necessary for communication of essential data.
 - 2. Where maintenance manuals require drawings or diagrams, use draftsmen capable of preparing drawings clearly in an understandable format.
- B. Instructions for Owner's Personnel: Use experienced instructors thoroughly trained and experienced in operation and maintenance of equipment or system involved to instruct Owner's operation and maintenance personnel.

1.4 SUBMITTAL PROCEDURES

- A. General: Operation and maintenance manuals shall be prepared in the form of an instructional manual for use by Owner's personnel. Organize manuals into suitable sets of manageable size. Assemble instructions for similar equipment into a single binder.
- B. Submittal Schedule: Comply with the following schedule for submitting operation and maintenance manuals:
 - 1. Prior to Substantial Completion, when each installation that requires operation and maintenance manuals is nominally complete, through Project's web-based construction management administration software, electronically submit a draft copy of each manual to Architect for review. Include a complete index or table of contents of each manual.
 - a. Architect will review draft copy with within 15 days of submission and will apply Action Stamp in accordance with Division 1 Section "Submittals".
 - 2. Make corrections in accordance with Architect's Action Stamp and following final inspection of Project by Architect, incorporate any final comments into each manual. In accordance with Division 1 Section "Contract Closeout", submit the specified number of copies of each final manual to Owner a minimum of **15 days prior to final acceptance of Work.**
 - a. Unless otherwise agreed to by Owner, submit one (1) complete set of hardcopy manuals and one (1) electronic (.pdf) copy of each manual. Architect shall be copied (transmittal only) on exchange of final manuals between Contractor and Owner and transmittal shall be posted to the construction management administration software.
- C. Final Hardcopy Manuals: Provide final hardcopy manuals as follows.
 - 1. Binders: For each manual, provide heavy-duty, commercial-quality, 3-ring, vinyl-covered, loose-leaf binders, in thickness necessary to accommodate contents. Size binders to receive 8-1/2 by 11-inch paper. Provide a clear plastic sleeve on the spine to hold labels describing contents. Provide pockets in the covers to receive folded sheets.

- a. Where two (2) or more binders are necessary to accommodate data, correlate data into related groupings according to the Project Manual table of contents. Cross reference other binders where necessary to provide essential information for proper operation or maintenance of the piece of equipment or system.
 - b. Identify each binder on the front and the spine with the printed title "OPERATION AND MAINTENANCE MANUAL," Project title or name, and the subject matter covered. Indicate volume number for multiple volume sets of manuals.
2. Dividers: Provide heavy paper dividers with celluloid-covered tabs for each separate Section. Mark each tab to indicate contents. Provide a typed description of the product and major parts of equipment included in the Section on each divider.
3. Protective Plastic Jackets: Provide protective, transparent, plastic jackets designed to enclose diagnostic software for computerized electronic equipment.
4. Text Material: Where maintenance manuals require written material, use the manufacturer's standard printed material. If manufacturer's standard printed material is not available, provide specially prepared data, neatly typewritten, on 8-1/2 by 11-inch white bond paper.
5. Drawings: Where maintenance manuals require drawings or diagrams, provide reinforced, punched binder tabs on drawings, and bind in with text.
 - a. Where oversize drawings are necessary, fold drawings to the same size as text pages and use as a foldout.
 - b. If drawings are too large to be used practically as a foldout, place the drawings, neatly folded, in front or rear pocket of binder. Insert a typewritten page indicating drawing title, description of contents and drawing location at the appropriate location in the manual.

1.5 MANUAL CONTENT

- A. In each manual, include information specified in the individual Specification Section and the following information for each major component of building equipment and its controls:
 1. General system or equipment description
 2. Design factors and assumptions
 3. Copies of applicable Shop Drawings and Product Data
 4. System or equipment identification, including:
 - a. Name of manufacturer
 - b. Model number
 - c. Serial number of each component
 5. Operating instructions
 6. Emergency instructions
 7. Wiring diagrams
 8. Inspection and test procedures
 9. Maintenance procedures and schedules
 10. Precautions against improper use and maintenance
 11. Copies of warranties

12. Repair instructions including spare parts listing
 13. Sources of required maintenance materials and related services
 14. Manual index
- B. Organize each manual into separate Sections for each piece of related equipment. As a minimum, each manual shall contain a title page; a table of contents; copies of Product Data, supplemented by Drawings and written text and copies of each warranty, bond and service contract issued.
1. Title Page: Provide a title page in a transparent, plastic envelope as the first sheet of each manual. Provide the following information:
 - a. Subject matter covered by the manual
 - b. Name and address of Project
 - c. Date of submittal
 - d. Name, address, and telephone number of Contractor
 - e. Name and address of Architect
 - f. Cross-reference to related systems in other operation and maintenance manuals
 2. Table of Contents: After the title page, include a typewritten table of contents for each volume, arranged systematically according to the Project Manual format. Include a list of each product included, identified by product name or other appropriate identifying symbol and indexed to the content of the volume.
 - a. Where a system requires more than one volume to accommodate data, provide a comprehensive table of contents for all volumes in each volume of the set.
 3. General Information: Provide a General Information section immediately following the table of contents listing each product included in the manual, identified by product name. Under each product, list the name, address, and telephone number of the subcontractor or installer and the maintenance contractor. Clearly delineate the extent of responsibility of each of these entities. Include a local source for replacement parts and equipment.
 4. Product Data: Where the manuals include manufacturer's standard printed data, include only sheets that are pertinent to the part or product installed. Mark each sheet to identify each part or product included in the installation. Where Project includes more than one item in a tabular format, identify each item, using appropriate references from the Contract Documents. Identify data that is applicable to the installation and delete references to information that is not applicable.
 5. Written Text: Prepare written text to provide necessary information where manufacturer's standard printed data is not available, and the information is necessary for proper operation and maintenance of equipment or systems. Prepare written text where it is necessary to provide additional information or to supplement data included in the manual. Organize text in a consistent format under separate headings for different procedures. Where necessary, provide a logical sequence of instruction for each operation or maintenance procedure.
 6. Drawings: Provide specially prepared drawings where necessary to supplement manufacturer's printed data to illustrate the relationship of component parts of equipment or systems or to provide control or flow diagrams. Coordinate these drawings

with information contained in project record drawings to assure correct illustration of the completed installation.

- a. Do not use original project record documents as part of operation and maintenance manuals.
7. Warranties, Bonds, and Service Contracts: Provide a copy of each warranty, bond, or service contract in the appropriate manual for the information of Owner's operating personnel. Provide written data outlining procedures to follow in the event of product failure. List circumstances and conditions that would affect validity of the warranty or bond.

1.6 MATERIAL AND FINISHES MAINTENANCE MANUAL

- A. Prepare a separate manual for materials and finishes. Provide one section for architectural products, including applied materials and finishes. Provide additional sections for products designed for moisture protection and products exposed to the weather.
 1. Refer to individual Specification Sections for additional requirements on the care and maintenance of materials and finishes.
- B. Architectural Products: Provide manufacturer's data and instructions on the care and maintenance of architectural products, including applied materials and finishes.
 1. Manufacturer's Data: Provide complete information on architectural products, including the following, as applicable:
 - a. Manufacturer's catalog number
 - b. Size
 - c. Material composition
 - d. Color
 - e. Texture
 - f. Reordering information for specially manufactured products
 2. Care and Maintenance Instructions: Provide information on the care and maintenance, including manufacturer's recommendations for types of cleaning agents to be used and methods of cleaning. Provide information on cleaning agents and methods that could prove detrimental to the product. Include the manufacturer's recommended schedule for cleaning and maintenance.
- C. Moisture Protection and Products Exposed to Weather: Provide complete manufacturer's data with instructions on inspection, maintenance and repair of products exposed to the weather or designed for moisture-protection purposes.
 1. Manufacturer's Data: Provide manufacturer's data giving detailed information, including the following, as applicable:
 - a. Applicable standards
 - b. Chemical composition

- c. Installation details
- d. Inspection procedures
- e. Maintenance information
- f. Repair procedures

1.7 EQUIPMENT AND SYSTEMS MAINTENANCE MANUAL

- A. Prepare separate manuals for each unit of equipment, each operating system and each electric and electronic system.
 - 1. Refer to individual Specification Sections for additional requirements on the operation and maintenance of the various pieces of equipment and operating systems.
- B. Equipment and Systems: Provide the following information for each piece of equipment, each building operating system and each electric or electronic system.
 - 1. Description: Provide a complete description of each unit and related component parts, including the following:
 - a. Equipment or system function
 - b. Operating characteristics
 - c. Limiting conditions
 - d. Performance curves
 - e. Engineering data and tests
 - f. Complete nomenclature and number of replacement parts
 - 2. Manufacturer's Information: For each manufacturer of a component part or piece of equipment, provide the following:
 - a. Printed operation and maintenance instructions
 - b. Assembly drawings and diagrams required for maintenance
 - c. List of items recommended to be stocked as spare parts
 - 3. Maintenance Procedures: Provide information detailing essential maintenance procedures, including the following:
 - a. Routine operations
 - b. Troubleshooting guide
 - c. Disassembly, repair, and reassembly
 - d. Alignment, adjusting, and checking
 - 4. Operating Procedures: Provide information on equipment and system operating procedures, including the following:
 - a. Startup procedures
 - b. Equipment or system break-in
 - c. Routine and normal operating instructions
 - d. Regulation and control procedures
 - e. Instructions on stopping

- f. Shutdown and emergency instructions
 - g. Summer and winter operating instructions
 - h. Required sequences for electric or electronic systems
 - i. Special operating instructions
- 5. Servicing Schedule: Provide a schedule of routine servicing and lubrication requirements, including a list of required lubricants for equipment with moving parts.
- 6. Controls: Provide a description of the sequence of operation and as-installed control diagrams by the control manufacturer for systems requiring controls.
- 7. Coordination Drawings: Provide each Contractor's Coordination Drawings.
 - a. Provide as installed, color-coded, piping diagrams, where required for identification.
- 8. Valve Tags: Provide charts of valve-tag numbers, with the location and function of each valve.
- 9. Circuit Directories: For electric and electronic systems, provide complete circuit directories of panelboards, including the following:
 - a. Electric service
 - b. Controls
 - c. Communication

1.8 INSTRUCTIONS FOR OWNER'S PERSONNEL

- A. Prior to final inspection, instruct Owner's personnel in the operation, adjustment, and maintenance of products, equipment, and systems. Provide instruction at mutually agreed upon times.
 - 1. For equipment that requires seasonal operation, provide similar instruction during other seasons.
 - 2. Use the operation and maintenance manuals for each piece of equipment or system as the basis of instruction. Review the contents in detail to explain all aspects of operation and maintenance.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION (Not Applicable)

END OF SECTION 017823

SECTION 017900 - WARRANTIES

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 warranties required by the Contract Documents, including Manufacturer's standard warranties on Products and special warranties.
 - 1. Refer to the General Conditions of the Contract for Construction for terms of Contractor's period for correction of the Work.
- B. Related Sections: The following Sections contain requirements that relate to this Section:
 - 1. Division 1 Section "Submittals" specifies procedures for submitting warranties.
 - 2. Division 1 Section "Contract Closeout" specifies contract closeout procedures.
 - 3. Divisions 2 through 33 Sections for specific requirements for Warranties and Special Warranties on Products and installations specified to be warranted.
 - 4. Certifications and other commitments and agreements for continuing services to Owner are specified elsewhere in the Contract Documents.
- C. Disclaimers and Limitations: Manufacturer's disclaimers and limitations on product warranties do not relieve Contractor of the Warranty on the Work that incorporates the Products. Manufacturer's disclaimers and limitations on product warranties do not relieve suppliers, manufacturers and subcontractors required to countersign special warranties with Contractor.
- D. Separate Prime Contracts: Each prime contractor is responsible for warranties related to its own contract.

1.3 DEFINITIONS

- A. Standard product warranties are preprinted written warranties published by individual manufacturers for particular products and are specifically endorsed by the Manufacturer to Owner.
- B. Special Warranties are written warranties required by or incorporated in the Contract Documents, either to extend time limits provided by standard warranties or to provide greater rights for Owner.

1.4 WARRANTY REQUIREMENTS

- A. Related Damages and Losses: When correcting failed or damaged warranted construction, remove and replace construction that has been damaged as a result of such failure or must be removed and replaced to provide access for correction of warranted construction.
- B. Reinstatement of Warranty: When work covered by a Warranty has failed and been corrected by replacement or rebuilding, reinstate the Warranty by written endorsement. The reinstated Warranty shall be equal to the original Warranty with an equitable adjustment for depreciation.
- C. Replacement Cost: Upon determination that work covered by a Warranty has failed, replace or rebuild the work to an acceptable condition complying with the requirements of the Contract Documents. Contractor is responsible for the cost of replacing or rebuilding defective Work regardless of whether Owner has benefited from use of the Work through a portion of its anticipated useful service life.
- D. Owner's Recourse: Expressed warranties made to Owner are in addition to implied warranties and shall not limit the duties, obligations, rights, and remedies otherwise available under the law. Expressed warranty periods shall not be interpreted as limitations on the time in which Owner can enforce such other duties, obligations, rights, or remedies.
 - 1. Rejection of Warranties: Owner reserves the right to reject warranties and to limit selection to products with warranties not in conflict with the requirements of the Contract Documents.
- E. Where the Contract Documents require a Special Warranty or similar commitment on the Work or part of the Work, Owner reserves the right to refuse to accept the Work until Contractor presents evidence that entities required to countersign such commitments are willing to do so.

1.5 SUBMITTALS

- A. Submit written warranties to Architect prior to the date certified for Substantial Completion. If Architect's Certificate of Substantial Completion designates a commencement date for warranties other than the date of Substantial Completion of the Work, or a designated portion of the Work, submit written warranties upon request of Architect.
 - 1. When a designated portion of the Work is completed and occupied or used by Owner, by separate agreement with Contractor during the construction period, submit properly executed warranties to Architect within 15 days of completion of that designated portion of the Work.
- B. When the Contract Documents require Contractor, or Contractor and a subcontractor, Supplier or Manufacturer to execute a Special Warranty, prepare a written document that contains appropriate terms and identification, ready for execution by the required parties. Submit a draft to Owner, through Architect, for approval prior to final execution.

- C. Form of Submittal: At Final Completion compile two (2) copies of each required Warranty properly executed by Contractor, or by Contractor, Subcontractor, Supplier or Manufacturer. Organize the warranty documents into an orderly sequence based on the table of contents of the Project Manual.
- D. Bind warranties and bonds in heavy-duty, durable 3-ring, vinyl-covered loose-leaf binders, thickness as necessary to accommodate contents, and sized to receive 8-1/2 by 11-inch paper.
 - 1. Provide heavy paper dividers with celluloid covered tabs for each separate Warranty. Mark the 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 the Installer.
 - 2. Identify each binder on the front and spine with the typed or printed title "WARRANTIES," Project title or name and the name of Contractor.
 - 3. When warranted construction requires operation and maintenance manuals, provide additional copies of each required warranty, as necessary, for inclusion in each required manual.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION (Not Applicable)

END OF SECTION 017900

