

**ADDENDUM NO. 3**

New Castle County Vocational Technical School District
Hodgson Vo-Tech High School
Bid Package E - Fieldhouse, Athletic Fields, and Storage Buildings

January 8, 2026
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Bids will be received until 3:00 PM local time on Wednesday, January 14, 2026.

NOTICE: Attach this addendum to the project manual for this project. It modifies and becomes a part of the contract documents. Work or materials not specifically mentioned herein are to be described in the main body of the specifications and as shown in the drawings. Bidders shall acknowledge receipt of this addendum on the space provided on the Bid Form. Failure to do so may subject the bidder to disqualification.

Whenever this Addendum modifies a portion of the Project Manual added information is shown as **Bold** and deleted information is shown as ~~striketrough~~.

The contract documents for the above-mentioned project, Project Manual dated November 4, 2025, are amended as follows:

GENERAL CLARIFICATIONS:

1. Bid Documents may be viewed and downloaded at EDiS' FTP site. To obtain access to the FTP site, please submit your request via email to Jackie McKee at jmckee@ediscompany.com.
2. Physical copies of bids will be received at the office of New Castle County Vo-Tech School District, 1417 Newport Road, Wilmington, DE 19804 until **3:00 PM local time on Wednesday, January 14, 2026**. The outer envelope should clearly indicate: "NEW CASTLE COUNTY VOCATIONAL TECHNICAL SCHOOL DISTRICT - HODGSON VO-TECH BID PACKAGE E - FIELDHOUSE, ATHLETIC FIELDS, AND STORAGE BUILDINGS CONTRACT BPE-_____ SEALED BID – DO NOT OPEN." Bids may be hand delivered or mailed/shipped. Electronic bids will not be accepted. Bidder assumes full responsibility for timely delivery at location designated for receipt of bids. Any bids received after the stated time will be returned unopened.
3. See attached Abatement phasing plans.
4. Attachment "H" is included in this Addendum to clarify the utility limits installed in Phase 1 and where the Phase 2 work interfaces.



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QUESTIONS AND ANSWERS:

1. The pre-bid RFI questions and answers log is attached for your use.
 - a. See Attachment "E" for response to pre-bid RFIs 80 & 102.
 - b. See Attachment "F" for response to pre-bid RFI 35.
 - c. See Attachment "G" for response to pre-bid RFI 30.
 - d. See Attachment "I" for response to pre-bid RFI 157.
 - e. See attached Original Building Mechanical Drawings M1 – M29 for response to pre-bid RFI 184.

MODIFICATIONS TO SPECIFICATIONS:

1. SECTION 001100 – TABLE OF CONTENTS – DELETE this section in its entirety and INSERT revised section, annotated Addendum No. 3 and dated January 8, 2026.
2. SECTION 000115 – LIST OF DRAWINGS - DELETE this section in its entirety and INSERT revised sections, annotated Addendum No. 3 and dated January 8, 2026.
3. SECTION 004100 - BID FORM AND ATTACHMENTS - DELETE this section in its entirety and INSERT revised sections, annotated Addendum No. 3 and dated January 8, 2026.
4. SECTION 006216 CERTIFICATE OF INSURANCE – REPLACE the Professional Liability and Pollution Insurance Requirements with revised page, annotated Addendum 3 and dated January 8, 2026.
5. SECTION 011100 – SUMMARY OF WORK – DELETE this section in its entirety and INSERT revised section, annotated Addendum No. 3 and dated January 8, 2026.
6. SECTION 012100 - ALLOWANCES – DELETE this section in its entirety and INSERT revised section, annotated Addendum No. 3 and dated January 8, 2026.
7. SECTION 012300 - ALTERNATES – DELETE this section in its entirety and INSERT revised section, annotated Addendum No. 3 and dated January 8, 2026.



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8. SECTION 11 40 00 FOOD SERVICE EQUIPMENT – DELETE this section in its entirety and INSERT revised, annotated Addendum No. 3 and dated January 8, 2026.
 9. SECTION 13 12 50 GRANDSTANDS AND PRESSBOX – DELETE this section in its entirety and INSERT revised, annotated Addendum No. 3 and dated January 8, 2026.
 10. SECTION 27 41 16.63 INTEGRATED AUDIO-VIDEO SYSTEMS AND EQUIPMENT FOR STADIUMS – ADD this section, annotated Addendum No. 3 and dated January 8, 2026.
 11. SECTION 32 13 13 CONCRETE PAVING – DELETE this section in its entirety and INSERT revised, annotated Addendum No. 3 and dated January 8, 2026.
 12. SECTION 32 18 23.26 NATURAL GRASS ATHLETIC FIELD SURFACING – ADD this section, annotated Addendum No. 3 and dated January 8, 2026.
 13. SECTION 32 80 00 SITE IRRIGATION – DELETE this section in its entirety and INSERT revised section, annotated Addendum No. 3 and dated January 8, 2026.

MODIFICATIONS TO DRAWINGS:

1. SHEET C113 SITE LAYOUT AND UTILITY PLAN – DELETE this sheet in its entirety and INSERT revised sheet, annotated Addendum No. 3 dated January 8, 2026.
2. SHEET C116 SITE LAYOUT AND UTILITY PLAN –
 - a. ADD Irrigation Water Line to baseball infield.
 - b. DELETE this sheet in its entirety and INSERT revised sheet, annotated Addendum No. 3 dated January 8, 2026.
3. SHEET C117 SITE LAYOUT AND UTILITY PLAN –
 - a. ADD Irrigation Water Line to baseball infield.
 - b. DELETE this sheet in its entirety and INSERT revised sheet, annotated Addendum No. 3 dated January 8, 2026.



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4. SHEET C520 ATHLETIC FIELD DETAILS AND SECTIONS –
 - a. Labeled turf section for both batting cage and bullpen. Updated dimensions on baseball and softball backstop.
 - b. DELETE this sheet in its entirety and INSERT revised sheet, annotated Addendum No. 3 dated January 8, 2026.
 5. SHEET FA-101 FIELDHOUSE – FLOOR PLAN – DELETE this sheet in its entirety and INSERT revised sheet, annotated Addendum No. 3 dated January 8, 2026.
 6. SHEET FA-441 INTERIOR ELEVATIONS – DELETE this sheet in its entirety and INSERT revised sheet, annotated Addendum No. 3 dated January 8, 2026.
 7. SHEET FA- 512 EXTERNAL SIGNAGE MAIN BUILDING PATIO –
 - a. Patio area at Main Entrance at main Building:
 - Base Bid: Concrete Paving
 - Alternate: Concrete Pavers on concrete substrate. See detail E5/A512 and Partial Site Plan detail A4/A512.
 - b. DELETE this sheet in its entirety and INSERT revised sheet, annotated Addendum No. 3 dated January 8, 2026.
 8. SHEET FA-E003 ELELCTRICAL SITE PLAN –
 - a. REVISE Connection to Irrigation Pump.
 - b. DELETE this sheet in its entirety and INSERT revised sheet, annotated Addendum No. 3 dated January 8, 2026.
 9. SHEET FA-E004 ELELCTRICAL SITE PLAN –
 - a. REVISE Connection to Irrigation Pump.
 - b. DELETE this sheet in its entirety and INSERT revised sheet, annotated Addendum No. 3 dated January 8, 2026.
 10. SHEET FA-E005 ELELCTRICAL SITE PLAN –
 - a. ADD Connection to Main Stadium Scoreboard for Video Display.
 - b. ADD Connection to Irrigation Pump.
 - c. DELETE this sheet in its entirety and INSERT revised sheet, annotated Addendum No. 3 dated January 8, 2026.



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11. SHEET FA-E101 FIELD HOUSE – POWER, LIGHTING & FIRE ALARM –

- a. REVISE Connection and locations of disconnects to Ice Machines in Athletic Trainer Room FH15.
- b. DELETE this sheet in its entirety and INSERT revised sheet, annotated Addendum No. 3 dated January 8, 2026.

12. SHEET FA-E501 SCHEMATIC POWER RISER DIAGRAM –

- a. REVISE Existing Switchboard MSB2 Schedule to delineate BPD and BPE Phasing.
- b. REVISE Note on Partial Schematic Riser Diagram as indicated.
- c. DELETE this sheet in its entirety and INSERT revised sheet, annotated Addendum No. 3 dated January 8, 2026.

13. SHEET FA-E601 PANEL SCHEDULES –

- a. REVISE Circuit Breaker in Panel HF for PZ-1.
- b. REVISE Transformer size, Primary and Secondary Circuit Breakers in Panel PZ-1.
- c. ADD Circuit in Panel PZ-1 (Circuit 17) for Scoreboard/Video Display.
- d. REVISE Transformer size, Primary and Secondary Circuit Breakers in Panel PZ-2.
- e. ADD Circuit in Panel PZ-2 for Irrigation pump.
- f. REVISE Transformer size, Primary and Secondary Circuit Breakers in Panel PZ-4.
- g. ADD Circuit in Panel PZ-4 for Irrigation pump.
- h. REVISE Circuits in Panel RF (Circuits 113 & 117) to “Spare”.
- i. ADD Circuits in Panel RF (Circuits 109 & 111) for Ice Machines.
- j. REVISE Ex Panel L2X and Ex Panel E1DL to delineate BPD and BPE Phasing.
- k. DELETE this sheet in its entirety and INSERT revised sheet, annotated Addendum No. 3 dated January 8, 2026.

14. SHEET FA-602 PANEL SCHEDULES –

- a. REVISE Circuit in Existing Panel R11M for Irrigation Pump.
- b. REVISE Circuits in Panel LFP4 for PZ-2 and PZ-4.
- c. DELETE this sheet in its entirety and INSERT revised sheet, annotated Addendum No. 3 dated January 8, 2026.

15. SHEET FA-E704 ELECTRICAL DETAILS -

- a. ADD Contactor Schedule to Detail 7
- b. DELETE this sheet in its entirety and INSERT revised sheet, annotated Addendum No. 3 dated 01/08/2026.



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16. SHEET FA-M403 AUTOMATIC TEMPERATURE CONTROLS -

- a. ADD Detail #6 to sheet reflecting ATC Controlled Lighting Diagram/Sequence.
- b. REVISE Detail #4 & #5 to fit Detail #6 on Sheet.
- c. DELETE this sheet in its entirety and INSERT revised sheet, annotated Addendum No. 3 dated 01/08/2026.

LIST OF ATTACHMENTS:

Pre-Bid RFI Questions and Answers Log

Section 001100	Table of Contents
Section 000115	List of Drawings
Section 004100	Bid Form and Attachments
Section 006216	Certificate of Insurance – Professional Liability and Pollution Insurance Requirements
Section 011100	Summary of Work
Section 012100	Allowances
Section 012300	Alternates
Section 114000	Food Service Equipment
Section 131250	Grandstands and Press Box
Section 274116.63	Integrated Audio-Video Systems and Equipment for Stadiums
Section 321313	Concrete Paving
Section 321823.26	Natural Grass Athletic Field Surfacing
Section 328000	Site Irrigation
Abatement Phasing Plans	
Attachments “E”, “F”, “G”, “H”, and “I”	
Original Building Mechanical Drawings M1 – M29	
Sheet C116	Site Layout and Utility Plan
Sheet C117	Site Layout and Utility Plan
Sheet C520	Athletic Field Details and Sections
Sheet FA-101	Fieldhouse – Floor Plan
Sheet FA-441	Interior Elevations
Sheet FA-512	External Signage Main Building Patio
Sheet FA-E003	Electrical Site Plan
Sheet FA-E004	Electrical Site Plan
Sheet FA-E005	Electrical Site Plan
Sheet FA-E101	Field House – Power, Lighting & Fire Alarm
Sheet FA-E501	Schematic Power Riser Diagram
Sheet FA-E601	Panel Schedules



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Sheet FA-602	Panel Schedules
Sheet FA-E704	Electrical Details
Sheet FA-M403	Automatic Temperature Controls

End of Addendum No. 3



RFI No.	Date	Submitted By	Sheet No.	Detail/Section	Question	EDiS Response	Design Team Response	Addendum Issued
001	12/5/25	BCI		01 11 00	E-06 General Trades scope includes spec section 083300 Rolling Service Doors. This is it's own prime package. Please confirm E-06 is not responsible for these doors.	Contract E-10 provides the Rolling Service Doors. Contract E-06 General Trades would own any wood blocking required at these openings.		1
002	12/5/25	BCI		01 11 00/12 93 00	E-02 Sitework scope item #17 states for sitework to provide bollards and bike racks. E-06 General Trades contains spec section 129300 Site Furnishings. Please clarify who provides what.	Contract E-02 Sitework to provide the work of Section 129300 Site Furnishings. Including all bollards (removable or permanent)		1
003	12/5/25	BCI		01 11 00	E-06 General Trades scope item #7 states to provide architectural expansion joint systems including joint covers at concrete slab, drywall, and masonry (interior and exterior). We do not see any expansion joints indicated on the drawings with exception of the precompressed foam seals between the dumpster enclosure and building #1	Contract E-06 General Trades to provide Scope item #7 work as indicated on the contract documents.		1
004	12/5/25	BCI	FA-181		Sheet FA-181 shows a small canopy to the left of the larger canopy, however this is not shown on the building elevations. Please confirm there is also a smaller canopy.		ABHA BSA+A(RY): There is not a small canopy.	1
005	12/5/25	BCI		01 11 00/11 40 00	E-06 General Trades includes spec section 114000 Food Service Equipment. There are no specifications for this and everything we see in the concession area is NIC	Section 114000 is included in addendum 2.		2
006	12/5/25	BCI		01 11 00	E-06 General Trades scope item #24 states to install aluminum storefront vision panels and glazing. Please confirm where these panels are located.	W1 windows are shown on sheet FA-201 Exterior Building Elevations	ABHA-SMM: Details can be found on FA-581	1
007	12/5/25	BCI			Who is responsible to install the Salto wireless locksets?	Contract E-06 General Trades installs all hardware including the Salto locksets.		1
008	12/5/25	Greggo & Ferrara			Please provide the CAD Files for Volume Calcs for Phase 2 & 2A - Fieldhouse project		Civil CAD files will be sent out with signed document release form included in Addendum 1	1
009	12/10/25	Summit Steel			Can the AISC steel erection for this project be waived.	AISC steel erection is not required for BP-E the requirement is waived.		3
010	12/10/25	Degli Obizzi			According to the drawings in Hodgson Bid Pack D, the heating water lines are stubbed up into the field house footprint. Please confirm that Bid Pack E has no underground heating water piping to install and that all work is to be performed above the finished floor.	The RicWell lines are stubbed up in the mech room of the field house.	The underground heating water main shall be extended as required to serve the fieldhouse.	1
011	12/10/25	Degli Obizzi			Please confirm that there is no plumbing or mechanical needed in support buildings E1, 2, 3, 4, 5, 6 and 7		Confirmed	1
012	12/10/25	Degli Obizzi			Please provide a bid form for Bid Pack E-15.	E-15 Bid Form will be issued in Addendum No. 1.		1
013	12/10/25	Degli Obizzi			Please provide a preliminary construction schedule	Schedule is included in addendum 2.		2
014	12/10/25	Degli Obizzi			Please provide the wage rate to use for the Co Op participation for bid package 15.	The wage rate is \$16.50 per hour it can be found in Section 007343 added in Addendum #1.		1
015	12/10/25	Joseph Rizzo			Is the stack bond brick on the fieldhouse to be modular size or utility? There are contradictory details in the drawing set.		BSA+A(RY):Utility Size Brick for walls. Modular Brick for Soldier Course.	1
016	12/10/25	Joseph Rizzo			What is the color for the groundface one the site sign and patio items?		ABHA BSA+A(RY): Standard manufacturer's colors - Gray tones.	3
017	12/10/25	Joseph Rizzo			Please provide wall section details for the dumpster enclosure on building E1.	The dumpster pad was provided under the previous bid package BP-D.		1
018	12/11/25	EDiS			Per the owners selections for door operation Hardware Sets 3, 4, 5, & 6 do not need the interchangeable cores.		Confirmed	1
019	12/11/25	EDiS			Per the owners selections for door operation Hardware Sets 8 & 9 are meant to have hard wired card reader and interchangeable core for keyed access.		Confirmed	1
020	12/11/25	Enterprise Masonry			Exterior wall sections do not match elevations, one example section A4 A 313 Column line B calls out height of 22'-0" but elevation E6 FA 201 calls out elevation to be 18'-8".		A4/A 313 is correct. The CMU wall at mid building is 22'-0" H, the CMU wall at SW and SE corners is 18'-8"H.	1
021	12/11/25	Enterprise Masonry			Please confirm interior partitions extend to deck.		BSA+A(RY): All interior CMU partitions are to underside deck/structure.	1
022	12/12/25	Corrado		01 11 00	Contract E-01 Demolition and removal contractor owns complete removal of existing building and foundations in their entirety. For bulk grading purposes, Contract E-02 Sitework & utilities contractor will need to know what elevation the demolished building will be left at before being turned over to sitework contractor. Please clarify.		BSA+A (RY): Refer to archival drawings for bottom of the existing building foundations. The existing building to be removed entirely. M&C: E-01 contractor owns filling in all excavated areas and depressions to a level that allows for positive drainage from all areas of the building pad to the existing storm outlets. Assume elevation 81.50 +/-	1

RFI No.	Date	Submitted By	Sheet No.	Detail/Section	Question	EDiS Response	Design Team Response	Addendum Issued
023	12/12/25	Corrado		01 11 00	Please confirm greenhouses will be demolished as part of contract E-01. Provide elevations post-demolition for these areas also along with any other surrounding structures to be removed per that contract.	Greenhouses are to be demolished under Contract E-01. Civil designer to provide grad information.	E-01 contractor owns filling in all excavated areas and depressions to a level that allows for positive drainage from all areas of the building pad to the existing storm outlets. Assume elevation 81.50 +/-	1
024	12/12/25	Corrado			Are all lawn areas required to get sod (including all sports fields)? Please clarify which areas are required to get sod and which areas can be seeded.		Provide sod at all grass areas surrounding the Field house adjacent storage buildings, ponds, and driveway islands. The practice fields are to be seeded per the contract specifications.	1
025	12/12/25	Corrado			Will the football field @ track area require a logo in the center of the field? If so please provide detail.		A new drawings is to be included in Add#1 - FA-005 Stadium Turf Field Graphics to clarify this.	1
026	12/12/25	Corrado			The specification of 2.5" pile height in combination with the pad and a 65/35 rubber to sand ratio is not a typical spec most of the industry is using. A pile height of 2" and infill ratio of 50/50 rubber to sand is recommended. Please confirm that this is acceptable. Current spec suggests a very soft field leading to leg fatigue and increased lower leg injuries.		2.5" pile height and 65/35 rubber to sand ratio is to be used.	3
027	12/12/25	Corrado			Please provide additional information/detail on proposed 10' netting on both sides of track/football field.		Detail added to sheet C524	1
028	12/12/25	Corrado			Please clarify limits of phase 2 work on sheet C120.		There is no Phase 2 work on sheet C120	1
029	12/12/25	Corrado			Please confirm that asphalt is required underneath & at surrounding areas of bleachers in front of field house at track/football field area. Will the bleachers on the other side of the track get the same underneath, or just grass? If required, please clarify which asphalt paving detail to use for this.		BSA+A(RY):There is aspahlt paving under visitor's bleacher. This info will be added to detail A5 on drawing FA-704. Under Home bleacher next to field house there is an asphalt paving, too. Refer to drawaing FA-701.	1
030	12/12/25	Corrado	C105/C107		On the Existing conditions and demo plan sheets C105/C107, there are some utilities to be removed which overlap from phase 2 into phase 0. Although it does call out the site lighting/posts to be removed in phase 2, the other utilities are not clarified. Please clarify which utilities we own removal for that overlap into phase 0.	See Attachment "G" included in this addendum for added information to address these questions.		3
031	12/12/25	Corrado	C116		Please clarify that the work shown on sheet C116 on the existing water main including the water meter vault/wet tap/8" water was all installed in phase 1 and will not be part of this contract.	Confirmed, this work was instaled aspart of Phase 1.		1
032	12/12/25	Corrado			Please clarify what material 2" & 4" water pipe are to be.		PVC C900	1
033	12/12/25	Corrado	C116		Please provide more clarity/information/detail on "proposed well location" sheet C116.	The wells were installed as part of the Phase 1 work. Coordination with the existing wells and the irrigation system are part of Contract E-02		1
034	12/12/25	Corrado		01 11 00	Please confirm that contract E-02 sitework & utilities does not own any work involved with the dugout buildings.	Contract E-02 would own grading, topsoiling, seed/sod, sidewalks etc.		1
035	12/12/25	Corrado			Please confirm that stormwater management areas #2/#3 were completed in the phase 1/1A contract and that we do not own any work with these basins in this contract. Only basin we should own work for is SWM area #1. If this is the case, should phase 2 limits be adjusted to not include SWM area #2. Please also clarify how much of the storm pipe surrounding SWM area #2 has been installed already.	See Attachment "F" included in Addendum #3 for clarifications.		3
036	12/12/25	Corrado			What material/size is the existing water pipe to be removed? Is it safe to assume existing water is roughly 4' deep?		Existing water main pipes encountered onsite have been 8". Assume other existing water is the same. Assume that the pipe can be removed by standard construction methods. Assume the water is roughly 4' deep.	1
037	12/12/25	Corrado			Please provide detail for filter strips.		There are no filter strip details. Area is to be planted as specified on the vegetative stabilization detail on sheet C224	1
038	12/12/25	Corrado			Please provide a detailed spec for infield mix & warning track material.		Spec info for infield mix and warning track material is located in Section 312000 Earth Moving spec	1
039	12/12/25	Mumford & Miller			Please confirm that the only building foundation that receives waterproofing is the Field House.		ABHA-SMM: Fieldhouse and Buildings E1 to E7 to receive foundation waterproofing.	1
040	12/15/25	Worth & Company			Who will own bringing in the fire protection service?		This is a scope item. EDIS shall determine who shall be responsible for routing underground fire protection piping to the building.	1

RFI No.	Date	Submitted By	Sheet No.	Detail/Section	Question	EDiS Response	Design Team Response	Addendum Issued
041	12/15/25	Worth & Company			The plumbing spec's refer to CPVC fittings for domestic water. Is CVPC allowed?		The plumbing pipe and fittings for potable water shall be Type L copper with copper fittings.	1
042	12/15/25	Enterprise Masonry	FA512		The pavers detailed on FA 512, were they in an earlier bid package? If not, who owns the system?	The pavers and seat walls shown on FA-512 are to be provided by Contract E-05 Unit Masonry		1
043	12/16/25	Kinsley			Could we recieve the CAD's?		Civil CAD files will be sent out with signed document release form included in Addendum 1	1
044	12/18/25	Joseph Rizzo			Please have the architect clarify which ground face color is which on the drawing set? In the specs the colors are Ash and Flint, but these materials look almost identical on the drawings.		ABHA-SMM: See Exterior Material Legend on Sheet FA-201, and Exterior wall assemblies on FA-003 for color designations.	1
045	12/18/25	Continental Electric			Requesting information regarding Bid pack-D scope of work. Information is needed as to whether current electrical contractors have stubbed conduits out of building footprint for Bid pack-E connections to existng panels. Existing Panel L2X has connections to NEW scope of work lighting circuits. Existing switchboard MSB2 has connections to NEW scope of work panels. Information is needed as to the location of these stub-outs and whether saw cutting is necessary for connections through roadways. Or whether stub-outs have NOT been provided and work inside school is needed.	Please see the clarifications section of Addendum #1 for a complete response from EDiS.		1
046	12/18/25	Corrado			Based on the milestone schedule, sitework looks to be starting beginning of 2027. Will there be compensation for material escalation due to the large gap in time between bid submittal and start date?	Escalation costs will be the responsibility of the contractor, other than Asphalt escalation, there is a section in the Scope of Work that covers that item.		1
047	12/18/25	Corrado			The pole vault pad is not listed in the specs. Do we own supply/install of new pole vault pad & vaults standards?		Infrastructure for the pole vault is included in BPE. The vault pad will be included in a separate equipment package.	1
048	12/18/25	Corrado	C524		Please confirm that football and soccer practice fields detailed on sheet C524 are not to be synthetic turf? If not, are they to be sodded or seeded?		No synthetic turf. Fields to be seeded	1
049	12/18/25	Corrado			Can we also get clarification on the requested irrigation system. What areas are required to get irrigation system? Please provide more information/details.		2" irrigation line is shown around the school building. 1" irrigation line added to sheets C1167 and C117	3
050	12/20/25	Brandywine Valley Concrete		01 11 00	Contract No. E-02: Sitework & Utilities #1 concrete paving, exterior concrete steps and ramps #44 concrete sidewalks, pads and ramps #50 concrete paving	See revised scope of work in Addendum No. 1		1
051	12/20/25	Brandywine Valley Concrete		01 11 00	Contract No. E-03 Concrete & Reinforcing #6 door stoops, pads, entrance/exit concrete complete #7 exterior concrete slabs, turndown slabs, equipment foundations	See revised scope of work in Addendum No. 1		1
052	12/20/25	RE Pierson			According to the spec this project requires a 7% DBE requirement. Since the federal government has stop the DBE program for now, who qualifies as a DBE? Does the State of Delaware still see those listed on the Civil Rights Compliance Reporting as DBE qualified?	For this Pilot Program, the DBE requirements remain as described in the documents. A contractor would need to be certified as a DBE by either OSD (state of DE) or DNREC. Since DNREC must follow USDOT requirements; many of the previously certified DBE contractors would need to get re-certified with DNREC or go to OSD and register for DBE certification. If you are a DBE contractor and are not registered with DelDOT or the Office of Supply Diversity State of Delaware, you can contact Shavonne White at OSD and she will help you understand the procedure and work to get you certified. Shavonne can be reached at 302-577-8497 or shavonne.white@delaware.gov.		2
053	12/20/25	RE Pierson			Per scope item 14 on page 463, it says that the foundation walls are to be filled with suitable filler subgrade material. Please provide a spec for this material.	Satisfactory Soil Materials: ASTM D 2487 soil classification groups GW, GP, GM, SW, SP, SC, and SM; free of rock or gravel larger than 2 inches in any dimension, debris, waste, frozen materials, vegetation and other deleterious matter. Satisfactory soil materials shall conform to Maryland State Highway Administration Section 916.01, Select Borrow.		2
054	12/20/25	North East Contractors			Is there a chance of a bid extension? A lot of offices are closed through the holidays, and I am already getting some push back on getting numbers in time.	See Addendum #2 for revised bid date.		2

RFI No.	Date	Submitted By	Sheet No.	Detail/Section	Question	EDiS Response	Design Team Response	Addendum Issued
055	12/20/25	North East Contractors		11 40 00	Please provide spec section 114000 Food Service Equipment.		Design Will Provide 11 40 00 Food Servise Spec in Add#1.	1
056	12/20/25	North East Contractors		01 11 00	BP E-06 SOW item number 34 and 82 mention to provide all site furnishings. What is to be included in that?	Spec Section 12 93 00 will be provided by Contract E-02 Sitework and Utilities		2
057	12/20/25	Advantech		28 20 00	28 20 00 – Video Surveillance System -Cabling – Is Gamechanger acceptable for site cameras over 90 meters? -M3719-PLE is not a valid part number from Axis. What camera shall be used? P3737-PLE was the replacement for the P3719-PLE.		Owner shall provide input if Gamechanger copper cable is acceptable or if the specified powered fiber should be used. Axis P3737-PLE is correct.	3
058	12/20/25	Advantech		28 10 00	28 10 00 – Intrusion Detection System - 2.01 Please confirm which Honeywell System is installed in the main building.		Honeywell Vista 250-BPT	2
059	12/20/25	Advantech		28 11 00	28 11 00 – Access Control The specification identifies Card Readers as HID Signo or Salto, but HID wouldn't be compatible with the customer's Salto System. Should it be assumed, if the door hardware schedule identifies XS4 this should be a salto Handleset and card reader, this should be a salto card reader?		All hardware is Salto	1
060	12/20/25	Summit Steel		01 11 00	On the E-04 scope it states we furnish the anchor bolts and plates for the bleacher system installation. Is there a detail for this? Sheet FA-702 A7 they show a detail without size and thickness of the plate.	Assume Anchor Bolts to be 3/4" 18"long bolts with w/2 Hex Head Nuts and Flat Washers. Provide 1 bolt at each angle post and 2 at each WF post		3
061	12/22/25	Assurance Media		01 11 00	Scope Summary Page # 011100-69 has the following: 11. Provide and install the racks, switches, uninterrupted power supplies etc. for a complete installation. Note #1 from Detail #5 on Drawing FA-T137 has the following: OWNER / DTI SHALL PROVIDE AND INSTALL SWITCHES.		See Section 272000. Network Switches - owner furnished, contractor installed. Wireless Access Points - owner furnished contractor installed. UPS - contractor furnished ontractor installed.	2
062	12/22/25	Assurance Media		01 11 00	Scope Summary Page # 011100-69 has the following: 12. Coordinate all WAP's as per the specifications if supplied by the owner, install if not supplied provide and install under this contract. Please confirm owner or others are providing the WAPs. Note 3. C. from Detail #3 on Drawing FA-T000: OWNER SHALL SUPPLY WIRELESS ACCESS POINTS FOR THIS CONTRACTOR TO INSTALL.		See Section 272000. Network Switches - owner furnished, contractor installed. Wireless Access Points - owner furnished contractor installed. UPS - contractor furnished ontractor installed.	2
063	12/22/25	Assurance Media		01 11 00	Scope Summary Page # 011100-71 has the following: 37. Complete Stadium Sound Systems as per Design Documents. Please provide a complete Specification Section and Detailed Drawings for the Stadium Sound System as we have found none in the Bid documents.		A complete stadium sound system is not included in the FA-T series documents as of this time.	2
064	12/22/25	Assurance Media	FA-T500		Drawing FA-T500 Detail #1: Backbone Riser Diagram. This diagram only calls for fiber optic cabling. Per State of Delaware Cabling Standards a high pair count copper cable is also required to IDFs. Please confirm if owner requires such a cable. The following is an excerpt from the standard referenced: 2. Copper Voice/Data Riser shall be 25-pair Category 3 plenum Copper Riser Cables installed between each IDF and the MDF as indicted in the attached riser drawaings. These cables are to be terminated on to the 110 termination blocks on teh wall-mounted or rack-mounted ferames in teh IDF Rooms and MDF Room.		Per owner input (12/29/2025), copper cabling to the field house is not required.	3
065	12/22/25	Assurance Media	FA-T500		Drawing FA-T500 Detail #1: Backbone Riser Diagram. This diagram calls for 6 strand (three pairs) of singlemode fiber optic cabling. Per State of Delaware Cabling Standards a 12 strand is required to IDFs. Please confirm if owner wants 6 strands or 12 strands. The following is an excerpt from the standard referenced: Distribution Cable shall be constructedwith 12 optical fibers		Per owner input (12/29/2025), 12 strand singlemode fiber shall be provided and installed.	3

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066	12/22/25	Assurance Media		01 11 00	Please confirm – Electrical Scope Summary #36 on page 011100-66 36. Coordinate closely with the work of the Special Systems contractor. This contract (electrical) provides all infrastructure, conduit and raceways required for the Special Systems work. Provide pull strings and boxes for all systems. (voice, data, communication, fire alarm, AV systems, Audio systems, and public address system, clock system etc.) Include all required sleeving, sealing and fire sealing for raceways and conduits through walls, floors, ceilings etc. for this work. Special Systems Scope Summary #25 on Page 25. Provide penetrations through walls, floors, etc., including cutting, patching and fire safing. Question – With #36 in the Electrical Scope Summary is then #25 in the Special System Scope Summary not required?	Contract E-16 Electrical shall provide the work described in Item 36. <i>Coordinate closely with the work of the Special Systems contractor. This contract (electrical) provides all infrastructure, conduit and raceways required for the Special Systems work. Provide pull strings and boxes for all systems. (voice, data, communication, fire alarm, AV systems, Audio systems, and public address system, clock system etc.) Include all required sleeving, sealing and fire sealing for raceways and conduits through walls, floors, ceilings etc. for this work.</i> Contract E-17 Special Systems item #25 would only apply to any openings that are created by the Special Systems contractor that are unrelated to the main infrastructure.		2
067	12/22/25	Assurance Media		01 11 00	Scope Summary Page # 011100-69 has the following: 1. Provide a complete Special System package as to include but not limited to, structured cabling, network equipment, AV systems, intrusion detection, access controls and video surveillance. Please clarify and provide detailed specifications and drawings for the referenced AV systems.		A complete stadium sound system is not included in the FA-T series documents as of this time.	2
068	12/22/25	Assurance Media		01 11 00	Scope Summary Page # 011100-70 has the following: 22. This contractor shall supply communication wiring from the intercom/public address amplifiers to the source (MDF/IDF patch panel) including terminations on both ends. Location of amplifiers to be coordinated with the documents and the Construction Manager prior to installation. Contractor should assume (3) amplifiers, one located in each MDF/IDF. Please confirm if there is to be any intercom / public address components provided and installed by the E-17 Special Systems contract as none are shown. If they are please provide specification section and drawings outlining what is to be installed where.		Intercom is not included to the out-buildings.	2
069	12/22/25	Assurance Media			Are there to be any Clocks provided and installed by the E-17 Special Systems contract as none are shown. If there are please provide specification section and drawings outlining what is to be installed where.		Clocks are not included in the out-buildings.	2
070	12/22/25	Assurance Media			Are others going to provide and install Plywood Backboards in MDF/IDFs or is the E-17 Special Systems contractor to install them?	Contract E-06 General Trades provides this work per their scope.		3
071	12/22/25	Assurance Media			Is the Electrical Contractor going to provide and install a main ground conductor and TGBB in MDF/IDFs?	Contract E-16 shall provide the ground bar to the MDF/IDF rooms as per Detail; 9/FA-E706		3
072	12/22/25	Assurance Media	FA-T101		Drawing FA-T101: Please Confirm that each of the three UPS units shown on this drawing and marked as NIC are not to be provided and installed by the E-17 Special Systems contractor.		Drawing is incorrect. UPS units shall be provided and installed by this contractor. See Section 272000	2
073	12/22/25	Assurance Media	FA-T500		Drawing FA-T500, Detail #2 Wireless Access Points, Note #8 has the following: PROVIDE AND INSTALL A WIRELESS ACCESS POINT ON EACH SITE LIGHT POLE WITH A CCTV CAMERA FOR A TOTAL OF SEVEN LIGHT POLE WAPS. Please provide Exterior Wap locations on drawing FA-T100 Technology Site Drawing. Please specify what specific cabling is to go to each of these WAP locations. If fiber is to be utilized to these locations will others be providing some sort of cabinet or NEMA enclosure for network equipment and fiber terminations etc...?	Per NCCVT Gamechanger copper cable is acceptable for site cameras over 90 meters.	There are two light poles with WAPs noted on Sheet FA-T100. Disregard Note 8, Detail 2 on Sheet FA-T500. Owner shall provide input if Gamechanger Copper cable is acceptable to light poles or if the specified powered fiber should be used. All equipment should be included for a complete and active installation. (Copper cables, powered fiber, modules, enclosures, etc.,)	2
074	12/22/25	Assurance Media	FA-T137		Drawing FA-T137: Please confirm if the owner desires any Exterior Wireless Access Points for either the Fieldhouse or the Fieldhouse Press Box. As we do not see any on this drawing for these areas.		Per owner input (12/29/2025), A W outlet and WAP shall be added to each side of the field house and the plan east and west sideds of the press box for a total of 6 additional locations.	3
075	12/23/25	Brandywine Contactor		11 40 00	After reading addendum #1 I see section 11400 Food Service Equipment has been added. Drawings shown this reach in refrigerators as NIC. Just confirming whether or not we have to furnish and set in place or if these are by the owner.	Please refer to revised section 11400 in this Addendum #2. Contract E-06 provides all equipment as per this spec section. This includes any blocking, set up and coordination with other trasdes. Electricaland plumbing contracts to review and provide required services.		2
076	12/23/25	Flo Mechanical			Can trap guards be utilized in lieu of Trap Primer Piping?		No.	3

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077	12/23/25	Flo Mechanical		23 06 00	Please consider adding Valent https://www.valentair.com/products/doas-with-energy-recovery as a pre-approved equivalent to the manufacturers listed in Specification Section 23 06 00 HEATING, VENTILATING, AND AIR CONDITIONING EQUIPMENT – 2.10 ENERGY RECOVERY VENTILATORS (ROOFTOP TYPE) – pg.13, Section 2.10. A		Valent is acceptable.	3
078	12/23/25	Assurance Media			It appears we are missing the AV drawings and specs in the bid pack?		Sound System spec included in Addendum #3	3
079	12/24/25	Flo Mechanical			Can Pro-press fittings be used for Domestic Water Piping Above Ground?		Pro-press for Domestic Water Piping above ground is acceptable.	3
080	12/24/25	Corrado American			Based on RFI response #024 what are the limits of the grass areas surrounding the field house to get sod? The field house lawn areas border open field areas around the pond and outside the track, where the discuss/shotput pads are. Does all this area get sod as well? If so, what is the cut off for which areas are seeded and which are sodded?	See attachment "E" in this addendum. Sod areas are identified.		3
081	12/24/25	Corrado American			Can you provide a spec for the sod.		Sod to meet design requirements for vegetative Stabilization found on sheet C224	3
082	12/24/25	Corrado American			RFI response #029 states that asphalt will be under home/away bleachers. Will the asphalt ONLY be under the limits of the bleachers or will It extend out any further? Please provide a detail/sectional thicknesses for this asphalt.		ABHA BSA+A(RY): Asphalt Paving under Home/Away Bleachers within the limits of the bleachers. Use Asphalt Walkway/Path Detail as shown on Civil Drawings C500.	3
083	12/24/25	Corrado American			Can you confirm that this project is expected to be a heavy import project?			
084	12/24/25	Corrado American			Please confirm Contract E-02 now owns dugout equipment.	Confirmed; Contract E-02 to provide the work of Section 116833		2
085	12/29/25	J&B Caulking			Spec Section 079200 2.04A calls for Polyurea. This product is generally used in warehouses with heavy forklift traffic. Can traffic grade urethane be used in its place at all buildings or only the field house? If polyurea is required what should be used at the slab to wall? Polyurea is not meant for expansion joints?		ABHA BSA+A(RY): Use Polyurea Sealant at narrow control joints in interior exposed concrete floors as specified in 079200 per 2.01 C.5. For all other interior joints as specified. At slab to wall polyurethane sealant is acceptable.	3
086	12/29/25	J&B Caulking			Please confirm scope of work items #1 & 12 in contract E-21 will only be required in sealed concrete floors (SC Floors)? All other floor finishes are responsible for their own floor prep	Confirmed		3
087	12/29/25	EDiS			Contract E-01 Walk through Notes 29 Dec 25:	1) Wrestling mats to be removed by Contract E-01 2) Welding Tables will be moved to new building by the district. 3) Wooden Plumbing benches will be moved to new building by the district.		3
088	12/29/25	Worth & Company			Please confirm the bid discounting based upon DBE Participation can only be applied to the base bid and not the alternate bids	Confirmed, DBE discounting for bid evaluation purposes is only calculated on the base bid amount.		3
089	12/30/25	Joseph Rizzo			RFI #17 in addendum 1 was us asking for a wall section for the dumpster enclosure built into building E-1. EDiS responded say that the dumpster pad was already provided. Does that mean the dumpster enclosure walls have already been built even though building E-1, which is part of the dumpster enclosure, has not?	The dumpster wall that is part of the E-1 building has not been built. It remains as part of the scope for BP-E		3
090	12/29/25	J&B Caulking		79200	Spec Section 079200 2.04A calls for Polyurea. This product is generally used in warehouses with heavy forklift traffic. Can traffic grade urethane be used in its place at all buildings or only the field house? If polyurea is required what should be used at the slab to wall? Polyurea is not meant for expansion joints?		See response to RFI 085	3
091	12/29/25	J&B Caulking			Please confirm scope of work items #1 & 12 in contract E-21 will only be required in sealed concrete floors (SC Floors)? All other floor finishes are responsible for their own floor prep.	Confirmed		3
092	12/30/25	Continental Electric			Additional clarification is required regarding RFI#45. Information regarding conduit runs between phase #1 and phase #2 has been provided. Does BP-E contractor need to provide wiring and line side connection for any wire pulling through phase#1? Has BP-D contractor provided the wiring up to phase#2 matchline or is that in scope of work for BP-E contractor?		Branch circuit wiring via contactors for site lighting was to have been installed in BPD (per General Note 2 on Electrical site plans). EDiS to confirm. The feeder conductors from the school to the Field House are to be included in the BPE scope of work, as well as any work specifically indicated on the BPE drawings in the Phase 1 area.	3
093	12/31/25	A-Del Construction			Can you provide an irrigation plan?		2" irrigation line is shown around the school building. 1" irrigation line added to sheets C1167 and C117	3
094	12/31/25	A-Del Construction			Who is responsible for converting ST #1 & ST #2 into SWM #2?	See Attachment "F" included wuth this Addendum #3		3

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095	12/31/25	A-Del Construction			Can you provide a detail on the bullpen subgrade section?		Use turf detail on C520	3
096	12/31/25	A-Del Construction			Is the warning track for baseball & softball fields only along outfield fence?		Yes.	3
097	12/31/25	A-Del Construction			What is the section for the Natural Grass infield & outfield areas?		See spec 32 18 23.26 included in this addendum.	3
098	12/31/25	A-Del Construction			What is the section for the practice soccer & football fields?		See spec 32 18 23.26 included in this addendum.	3
099	12/31/25	A-Del Construction			The site appears to be a large import; is there an onsite stockpile we can utilize?	There is no onsite stockpile available that has been tested and identified as suitable fill. The Geo-Tech reports should be consulted as to utilizing on site fill materials.		3
100	12/31/25	A-Del Construction			C110, C111, C113, C121 were included in addendum #1 – this is all Phase 1 work area.	Refer to RFI #045		3
101	12/31/25	A-Del Construction			What were these sheets included for and what work in the phase 1 portion of this project we will be responsible for? Please provide the same style plan sheets as you did for the DEMO sheets you provided in Hodgson BPE Vol 3 – Attachments A.B.C._IFB. Add #1 Summary of work #3 states we are responsible for excavation, concrete, & backfill. Is the concrete you are referring to the footer? Please clarify we will not be responsible for any masonry or granite work in this area.	Contract E-02 Sitework would not be providing any masonry or grsnite. Just the foundation and any slab, sidewalk or curb concrete.		3
102	12/31/25	A-Del Construction			Please provide a colored layout where SOD will be required.	See Attachment "E" for locations of sod.		3
103	12/31/25	A-Del Construction			Please provide more context for what is included in Alt #3 and Alt #4.	Provide the same scope that your contract would be providing for the field house.		3
104	12/31/25	A-Del Construction			The plans call out the parking stalls located by the baseball field as an Alternate Phase. Is this parking lot and entrance road part of Alt #4 or part of base bid?	All parking areas indicated are to be included in the Base Bid.		3
105	12/31/25	A-Del Construction			Is the pavement section under the bleachers the same as the asphalt walking path section?		ABHA BSA+A(RY):Use Asphalt Walkway/Path Detail as shown on Civil Drawings C500.	3
106	12/31/25	A-Del Construction			Is there a section to the 18’ filter strip?		There are no filter strip details. Area is to be planted as specified on the vegetative stabilization detail on sheet C224	3
107	1/2/26	Ventresca Bros		11 68 33	116833 - Baseball/Dugout Equipment is listed in contract E-06 General Trades per addendum #2. Addendum #1 added this spec section to contract E-02 Sitework. Please clarify which contract owns the Baseball/Dugout Equipment.	Contract E-06 to provide Section 116833 Baseball-Dugout Equipment		3
108	1/2/26	Ventresca Bros		12 93 00	129300 - Site Furnishings is listed in contract E-06 General Trades. Addendum #2 added this spec section to contract E-02 Sitework. Please clarify which contract owns the site furnishings (bike racks and bollards).	Contract E-02 Sitework to provide Section 129300 Site Furnishings		3
109	1/2/26	Ventresca Bros		12 93 00	Regarding the bike racks, 129300 states to provide three (3) 11-bike racks, while drawings C113 and C114 show a total of two locations that state "5 bike racks to accommodate 10 bikes" (total of ten 2-bike racks). Please clarify.		Refer to sheets C113 and C114	3
110	1/2/26	Ventresca Bros	FA-181		Roof plan FA-181 shows a small canopy above door opening FH15A. This canopy is not depicted on elevation E6/FA-201. Please clarify.		See Addendum #1	3
111	1/2/26	Ventresca Bros			Which contract owns the PVC fascia shown on FA-803A.	Contract E-06 General Trades shall provide this work.		3
112	1/2/26	Ventresca Bros		01 11 00	Contract E-06 General Trades lists spec section 083300 - Rolling Service Doors, but these are by contract E-10 Overhead Rolling Doors. Please confirm that this spec section can be deleted from E-06 Carpentry's scope.	Contract E-10 Overhead Rolling Doors and Shutters provides the work of Section 083300. Contract E-06 would provide any wood blocking required for the OHD installation.		3
113	1/2/26	Ventresca Bros		01 11 00	Spray insulation is listed as part of contracts E-06 General Trades and E-05 Masonry. Please confirm which contract owns the spray insulation.	The Spray Insulation is to be provided by Contract E-05 Unit Masonry		3
114	1/2/26	Ventresca Bros		01 11 00	072500 - Weather Barriers is referred to in contracts E-06 General Trades and E-05 Masonry. The exterior wall types on drawing FA-003 do not show any weather barriers as specified in 072500 (blueskin). Please confirm that this spec section can be deleted. If it is part of the project, please clarify where it applies and which contract owns it.	Contract E-05 shall provide Section 072500 Weather Barriers (blueskin) as required for the scope of BP-E.		3
115	1/2/26	Ventresca Bros		01 11 00	Please confirm that contract E-05 Masonry owns the stainless steel corner guards on masonry walls. See A3/FA-312 for example.	Contract E-04 Structural Steel shall provide the stainless steel corner guards.		3
116	1/2/26	Ventresca Bros		01 11 00	002113 - Instructions to Bidders paragraph 1.0 states to use an OMB Pilot Program Coop Student Rate for the NCCVT student co op hours. Please provide this student rate.	See Section 007343 Wage Rates for this information.		3

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117	1/2/26	Ventresca Bros		01 11 00	Please clarify the following scope item in contract E-06 General Trades 055000 - Metal Fabrications is listed. Please confirm that this is just limited to countertop supports.	Confirmed; all other Misc.Metals to be provided by Contract E-04 Structural Steel and Misc. Metals		3
118	1/2/26	Ventresca Bros		01 11 00	Please clarify the following scope item in contract E-06 General Trades 070553 - Fire and Smoke Assembly Identification is listed. Please confirm that this can be deleted, as there are no drywall partitions shown. This item is also part of contract E-12 Painting.	Contract E-12 Painting to provide all fire/smoke wall rating identification as required by the contract documents.		3
119	1/2/26	Ventresca Bros		01 11 00	Please clarify the following scope item in contract E-06 General Trades 072100 - Thermal Insulation is listed. Please confirm that his can be deleted, as the only insulation shown on the drawings pertains to spray insulation and roof insulation.	Contract E-06 Genneral Trades would own any Thermal Insulation that is reflected in the contract documents that relates to their scope of work.		3
120	1/2/26	Ventresca Bros		01 11 00	Please clarify the following scope item in contract E-06 General Trades 078400 - Firestopping is listed, and items 58 and 67 refer to firestopping. Please confirm that these can be deleted, or clarify what firestopping you would like E-06 to provide.	If there is Firestopping indicated on the contract drawings related to your work, you would own that Firestopping. Contractors responsibility to confirm.		3
121	1/2/26	Ventresca Bros		01 11 00	Please clarify the following scope item in contract E-06 General Trades 079100 - Preformed Joint Sealants is listed. Please confirm that this can be deleted, or clarify what preformed joint sealants you would like E-06 to provide.	Confirmed		3
122	1/2/26	Ventresca Bros		01 11 00	Please clarify the following scope item in contract E-06 General Trades 079200 - Joint Sealants is listed. Please confirm that this can be deleted, or clarify what joint sealants you would like E-06 to provide.	Contract E-06 provides all Joint Sealants not identified in Contract E-21 Joint Sealants		3
123	1/2/26	Ventresca Bros		01 11 00	Please clarify the following scope item in contract E-06 General Trades 083300 - Rolling Service Doors is listed. Please confirm that this can be deleted, as these doors are by contract E-10.	Rolling Service Doors are provided by Contract E-10. Contract E-06 General Trades would provide any wood blocking required for the OHD installation.		3
124	1/2/26	Ventresca Bros		01 11 00	Please clarify the following scope item in contract E-06 General Trades 129300 - Site Furnishings is listed, and items 34 and 85 also refer to providing site furnishings. Please see question 2 above, and advise if these can be deleted.	Contract E-02 Sitework to provide Section 129300 Site Furnishings		3
125	1/2/26	Ventresca Bros		01 11 00	Please clarify the following scope item in contract E-06 General Trades Item 7 refers to expansion joint covers. I don't see any of these on the drawings. Please confirm that this item can be deleted.	Confirmed, Item 7 can be deleted.		3
126	1/2/26	Ventresca Bros		01 11 00	Please clarify the following scope item in contract E-06 General Trades Item 49 refers to a building mock-up. Please provide a sketch of the intended mock-up(s).	No mock up will be required		3
127	1/2/26	Ventresca Bros		01 11 00	Please clarify the following scope item in contract E-06 General Trades Item 57 states to "supply and install any access panels in the exterior wall assembly". I don't see any on the drawings. Please revise this item or clarify the location and quantity of access panels in the exterior walls.	EXterior Access panels should be deleted see revise scope for Contract E-06		3
128	1/2/26	Ventresca Bros		01 11 00	Please clarify the following scope item in contract E-06 General Trades Item 68 refers to caulking drywall partitions. There are no drywall partitions, please confirm that this item can be deleted.	See revised scope Contract E-06.		3
129	1/2/26	Ventresca Bros		01 11 00	Please clarify the following scope item in contract E-06 General Trades Item 73 refers to acoustical lay-in insulation. There is no acoustical lay-in insulation shown on the drawings, please confirm that this item can be deleted.	Contract E-06 Scope of work revised.		3
130	1/2/26	Ventresca Bros		01 11 00	Please clarify the following scope item in contract E-06 General Trades Item 78 refers to expansion joints for acoustical ceilings. There are none shown on the drawings, please confirm that this item can be deleted.	Expansion Joints for ATC ceilings should be provided per manufacturers recommendations		3
131	1/2/26	Ventresca Bros		01 11 00	Please clarify the following scope item in contract E-06 General Trades Item 53 calls for safety rails on the roof. This is also noted in scope item 11 of contract E-04 Steel. Please clarify who owns temporary roof safety rails.	Contract E-06 shall provide a removable, relocatable OSHA approved safety rail saystem for the entire roof perimeter of the field house.		3
132	1/2/26	RC Fabricators			Who owns the Bollards and are they to be 4" Stainless Steel (Per A1/FA-003) or Carbon Steel (Per F/FS-501)?	Contract E-02 Sitework provides all bollards and the with be per detail A1/FA-003		3
133	1/2/26	RC Fabricators			Who owns Premanufactured Canopies?	Contract E-06 General Trades shall provide all work associated with Section 107316.13 Metal Canopies		3
134	1/2/26	RC Fabricators			Who owns Deck on CFMF Trusses, if Steel contractor owns is it Furnish ONLY?	Contract E-04 will provide the decking to the General Trades contractor (E-06)for installation on their CFMF trusses.		3

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135	1/2/26	RC Fabricators			Anchor Bolts/Leveling Plates for Bleachers per SOW #4, please confirm size and qty of Anchorbolts required. Currently assume (2) 3/4" @ Each WF Post and (1) 3/4" @ Each Angle Post_Per FA-701 & FA-704.	Assume Anchor Bolts to be 3/4" 18"long bolts with w/2 Hex Head Nuts and Flat Washers. Provide 1 bolt at each angle post and 2 at each WF post		3
136	1/2/26	RC Fabricators			Confirm any/all steel required for scoreboard is BY OTHERS?	Confirmed, Contract E-06 General Trades owns this work.		3
137	1/2/26	RC Fabricators			Confirm any/all CFMF Framing, Trusses, Guage Angle, etc. required are provided BY OTHERS?	Confirmed		3
138	1/2/26	Advantech		01 11 00	Scope of Work – 011100 4. Provide complete intrusion system. •Please confirm which Honeywell System is installed in the main building as Specification 28 10 00 states it must match.	See RFI #058 response		3
139	1/2/26	Advantech		01 11 00	Scope of Work – 011100 37. Complete Stadium Sound Systems as per Design Documents. • Addendum 2 – 063 states the stadium sound system is not included at this time, but the Scope summary still states to provide. Is this being removed from scope or released in a future addendum?		See Addendum 3	3
140	1/2/26	Advantech		28 20 00	Specifications •28 20 00 – Video Surveillance System oCabling – Is Gamechanger acceptable for site cameras over 90 meters? oM3719-PLE is not a valid part number from Axis. What camera shall be used? P3737-PLE was the replacement for the P3719-PLE.		See response to RFI 57	3
141	1/5/26	Sundew			Contract E-12 Scope item 10 paint metal stairs & railings I dont see any stairs or railings besides the bleachers and they say aluminum	Contrct E-12 shall paint all exposed steel, rails and misc. iron that is exposed.		3
142	1/5/26	Corrado American			Contract E-02: sitework & utilities SOW #57 states to remove the temp fence, patch & repair. Please confirm that no temporary fencing will be going through asphalt.	See RFI #157 response		3
143	1/5/26	Corrado American			Can it be considered to state all bidders to use 2" SS40 pipe for any temp fence sing windscreen. There have been major issues with wind bending the standard SS15/SS20 pipe.	2" SS40 pipe shall be utilized at all all gates. SS20 posts may be utilized for all other areas.		3
144	1/5/26	Corrado American			For the baseball/softball field backstops, can you confirm if we are to go by the measurements listed on detail sheet C520. Looking at the site plan sheet C116/C117, the measurements of the fence between home plate/the bleacher pad scales to be a lot longer than the backstop detail shows. Is this referenced fence supposed to be a continuation of the fence around the field?		Chart on sheet C520 has been updated with the correct lengths	3
145	1/5/26	Corrado American			The middle section of the backstops call for 8' overhang w/ 6g fabric. Would it be acceptable to split the height (attaching 2 4' 6g fabric up one at a time & attach to the rails). There would only have to be 3 rails in this case instead of the 4 shown in the details.		Yes that is acceptable.	3
146	1/5/26	Joseph Rizzo			In addendum #01 RFI #42, the pavers on drawing FA-512 were put in the masonry pack as opposed to the site contractor's, who typically owns this item and all materials related to its system. The masonry scope does not reflect this and should be changed if we are to carry this item.	The scope of work for Contract E-05 Masonry has been modified.		3
147	1/5/26	Joseph Rizzo			Specs and a basis of design for the pavers and any materials related to its installation	See Drawing FA-512 revised per Addendum #3		3
148	1/5/26	Joseph Rizzo			Outlined scope of work of what materials and items that the mason is going to be expected to provide for the pavers	See Contract E-05 Scope of work		3
149	1/5/26	Joseph Rizzo			Drawing details depicting paver installation and all materials related to installation		See sheet FA-512 for paver layout and typical detail issued in Addendum 3	3
150	1/5/26	Joseph Rizzo			Clarification that the pavers shown on FA-512 is the only instance of where the mason would own any site work pavers within the project	See Addendum #3 for Paver clarifications and Alternate		3
151	1/5/26	Assurance Media			What work is required as part of "Contract E-17 Special Systems" for these two line items on the bid form? Alternate No. 1: Add stadium lighting at main stadium and field. Alternate No. 2: Add field lighting to existing practice turf field.	See revised bid form in Addendum #3		3

RFI No.	Date	Submitted By	Sheet No.	Detail/Section	Question	EDiS Response	Design Team Response	Addendum Issued
152	1/5/26	Assurance Media			On bid form for Contract for E-17 Special Systems you have a line item for: "Alternate No. 8 - Audio system basis of design to be audio system mounted on the press box." What should we put in for this? Or will and Addendum 3 remove this line or become inclusive of a AV design?		See Addendum 3	3
153	1/5/26	Assurance Media			Addendum #2 Question #73 awaiting confirmation - Will Game Changer cable be approved for cameras at pole locations?	See RFI #073 above for response		3
154	1/5/26	Assurance Media			Intrusion alarm detail drawing FA-TY-500 shows one intrusion alarm system with (4) keypads in the field house and (3) remote keypads. One security panel cannot support the wiring distance to utilize one intrusion alarm system. Recommendation would be to supply standalone intrusion alarm system at buildings E1 and E5.		We believe the preference would be to have E1 served from the main building intrusion panel and keep the separate intrusion panel in the field house to serve the field house. If E5 is still too far from the Field House panel, then a separate panel can be added for E5.	3
155	1/5/26	Assurance Media			Will any of the doors calling for card readers become Salto Wireless? Minimum one hard wired readers would be needed.		See response to 174	3
156	1/5/26	Kent Construction			Is the 4" straight pole breakaway netting for the bull pen?		That is for the proposed 10' netting behind each of the endzones of the turf field.	3
157	1/5/26	Kent Construction			For the 6' tall temp fence, can they provide a layout of where the temp fence will be going? a.) If there's any temp fence going on any asphalt can we use temp fence panels to minimize damaged? b.) Would they consider stating everyone bidding to use 2" SS40 pipe for any temp fence using windscreen? We've been having major issues with wind bending the standard SS15 and SS20 pipe.	See attachment "T" included in this addendum for the proposed temporary fence layout. All post shall be installed in the ground, including those that cross blacktop. See RFI response #143 for fence post sizing update.		3
158	1/5/26	Kent Construction			Looking at the backstops I am seeing a lot of conflicting measurements. Can they provide the exact measurements for softball and baseball backstops and wing lengths?		Chart on sheet C520 has been updated with the correct lengths	3
159	1/5/26	Kent Construction			It also calls out for 8't overhang but they want 4 rails. It would be almost impossible to get an 8't 6g fabric 18' in the air and safely attach the fabric. We normally split the height, meaning we would take (2) 4't 6g fabric up one at a time and attach those to the rails but that would only have 3 rails instead of the 4 in the details. Would that be acceptable?"		Yes that is acceptable.	3
160	1/5/26	Advantech			If a conflict between the drawings and bid specifications should arise, which should prevail?		The greater option	3
161	1/5/26	Advantech		28 20 00	Bid Specification 28 20 00 – VIDEO SURVEILLANCE SYSTEM – PART 2 – 2.01 D Point 4 states "360 degree cameras shall be Axis M3719-PLE...", but this is an invalid Axis part number. Please confirm the intent for this camera is P3727-PLE (P3735-PLE is latest model).		Should have been P3719-PLE, but this camera has been replaced by the P3737-PLE.	3
162	1/5/26	Advantech		28 20 00	Cameras 198 and 200 are identified on the CCTV Camera Schedule (FA-TY502) as P3727-PLE, but on drawing FA-TY137 they are identified as Axis P4708-PLVE. Please clarify which camera shall be used. Neither camera in specification.		P4708-PLVE is the correct part and should be provided.	3
163	1/5/26	Advantech		28 20 00	Camera 226 is identified on the CCTV Camera Schedule (FA-TY502) as P3727-PLE, but on drawing FA-TY100 it is identified as P1465-LE-3. Please clarify which camera shall be used. Neither camera in specification.		P1465-LE Kit is the correct part and should be provided.	3
164	1/5/26	Advantech		28 20 00	Bid Specification 28 20 00 – VIDEO SURVEILLANCE SYSTEM – PART 2 – 2.01 A States Video Surveillance Equipment shall match the system in the main building. 1. Does this mean that the Network Video Recorder shall be of the same manufacturer as the Main Building or just run the same VMS? If so, who is the manufacturer of the main building NVR? 2. Which version of Milestone is the customer running in the Main Building? (Xprotect+, Corporate, etc)		Yes, all equipment shall match the main building. This equipment has not been provided for review yet. (Assurance Media needs to provide this information.) Milestone XPETDL XProtect Expert is being provided.	3
165	1/5/26	Advantech		08 06 71	Access Control - 08 06 71 – DOOR HARDWARE SCHEDULE Hardware Set 3 – E6A and FH18.2 are identified to receive Salto Wireless equipment, but drawings FA-TY102, FA-TY137, and FA-TY501 do not identify these doors for any access control. Please clarify.		The TY drawings do not indicate wireless locksets. These are battery controlled independent locks and do not require separate card readers	3

RFI No.	Date	Submitted By	Sheet No.	Detail/Section	Question	EDiS Response	Design Team Response	Addendum Issued
166	1/5/26	Advantech		08 06 71	Access Control - 08 06 71 – DOOR HARDWARE SCHEDULE Hardware Set 5 – E2 and E3 are identified to receive Salto Wireless equipment, but drawings FA-TY102 and FA-TY501 do not identify these doors for any access control. Please clarify.		The TY drawings do not indicate wireless locksets. These are battery controlled independent locks and do not require separate card readers	3
167	1/5/26	Advantech		08 06 71	Access Control - 08 06 71 – DOOR HARDWARE SCHEDULE Hardware Set 6 – FH03.1 and FH03.2 are identified to receive Salto Wireless equipment, but drawings FA-TY137 and FA-TY501 do not identify these doors for any access control. Please clarify.		The TY drawings do not indicate wireless locksets. These are battery controlled independent locks and do not require separate card readers	3
168	1/5/26	RE Pierson			In bid package E-01 Demolition, scope item 22 ,states we are to remove all fluids, etc. and we are to include the testing for PCBs and the final regulated removal of fixtures, but scope item 21 states if we find something hazardous to notify the CM so the work can be done by others. These two scope items appear to be in conflict with each other. Please clarify what the E-01 contractor is supposed to do with the PCBs and universal waste.	Contract E-01 Demolition is responsible for the regulated removal of all fluids from equipment, lighting etc. that is part of the existing building and buildin grounds. This includes but is not limited to freon, fuel, PCB's, ballasts etc. Containment and removal of all contaminate lighting fixtures is provided by this contractor. Item #21 is specific to Asbestos. The building will be cleared and signed by the abatement contractor, however while performing your scope of work if you encounter material that could be asbestos you are to notify the CM and we will have the abatement contractor clear the materials.		3
169	1/5/26	Assurance Media			What work is required as part of “Contract E-17 Special Systems” for these two line items on the bid form? Alternate No. 1: Add stadium lighting at main stadium and field. Alternate No. 2: Add field lighting to existing practice turf field.	See revised bid form in this addendum.		3
170	1/5/26	Assurance Media			On bid form for Contract for E-17 Special Systems you have a line item for: “Alternate No. 8 - Audio system basis of design to be audio system mounted on the press box.” What should we put in for this? Or will and Addendum 3 remove this line or become inclusive of a AV design?		See Addendum 3	3
171	1/5/26	Assurance Media			Addendum #2 Question #73 awaiting confirmation - Will Game Changer cable be approved for cameras at pole locations?	See RFI response #073		3
172	1/5/26	Assurance Media			Intrusion alarm detail drawing FA-TY-500 shows one intrusion alarm system with (4) keypads in the field house and (3) remote keypads. One security panel cannot support the wiring distance to utilize one intrusion alarm system. Recommendation would be to supply standalone intrusion alarm system at buildings E1 and E5.		We believe the preference would be to have E1 served from the main building intrusion panel and keep the separate intrusion panel in the field house to serve the field house. If E5 is still too far from the Field House panel, then a separate panel can be added for E5.	3
173	1/5/26	Assurance Media			Will any of the doors calling for card readers become Salto Wireless? Minimum one hard wired readers would be needed.		The card readers shown on the TY drawings are all hard-wired card readers. -These are battery controlled independent locks and do not require separate card readers	3
174	1/6/25	Mid-Atlantic Dismantlement			If we own the removal of an existing underground storage tank. I believe it is located outside the main mechanical room, what size is it, how many gallons, so we know how much backfill. Also, are there are monitoring wells, any special instructions?	Original Building M series drawings are included with Addendum #3 for your review.		3
175	1/6/26	Mid-Atlantic Dismantlement			Will there need to be a temporary site fence around the building being demolished? Or is the temporary fence by the site contractor covering that?	The site fencing will secure the site. Fencing to warn and protect excavations, trenches etc. would be required by Contract		3
176	1/6/26	Mid-Atlantic Steel			E-04: Structural Steel scope of work Item 4 reads that we are to “Furnish misc. anchor bolts and plates required for the bleacher system installation”. This item is already covered under Contract E-13: Bleachers and Grandstands scope of work Item 5. Also, this would be hard for us to quantify as there are no drawings for the bleacher systems. Please confirm this item can be stricken from Contract E-04 scope of work.	See RFI #135 response		3
177	1/6/26	Mid-Atlantic Steel			Please confirm Contract E-05: Unit Masonry is responsible for furnishing and installation of masonry wall connections per D5/FA-004.	Confirmed, Contract E-05 shall provide the anchors and installation.		3
178	1/6/26	Mid-Atlantic Steel			Please confirm Contract E-06: General Trades is responsible for furnishing and installation of all prefab metal canopies. Section 107316.13 Metal Canopies is listed under this contract’s technical specification sections listing, but there is no specific itemized description of this being a responsibility of this contract to furnish and install metal canopies.	See RFI #133 response		3

RFI No.	Date	Submitted By	Sheet No.	Detail/Section	Question	EDiS Response	Design Team Response	Addendum Issued
179	1/6/26	Mid-Atlantic Steel			Please confirm Contract E-06: General Trades is responsible for furnishing and installation of all steel support framing and anchor bolts for all scoreboards as shown on drawing FA-002 is by.	Confirmed, Contract E-06 owns the Scorebords as a complete package.		3
180	1/6/26	Mid-Atlantic Steel			Please confirm Contract E-13: Bleachers and Grandstands is responsible for furnishing and installation of typical stair railings (At Bleachers) shown in D2/FA-004.	Confirmed, Contract E-13 Bleachers will provide stair ralings at bleachers.		3
181	1/6/26	Radius Systems			in specmication section 26 09 23-1 1.2, 26 09 23 -13 2.9 C. 6, 26 09 43 - 5 2.1 C.1, and 26 09 43-8 2.8 G. Building Automation System Interface is mentioned for the lighting system as ‘support an interface, optional, capable of, etc.’ when referencing BACnet BAS interface. This shows that the lighting system should have the ability to interface to the BAS but does not clarify whether the interface should be performed as part of this scope. There is no mention of BAS interface to the Field House or Stadium lighting control systems in the Electrical Drawing Package or the Mechanical ‘Automatic Temperature Controls’ M400s section. Please confirm that there is no BAS BACnet interface of the lighting control system, only that the lighting system is capable of a future interface. a. On FA-E704 Detail 7 – Typical Exterior Lighting Control Diagram, it states “Contract from Building Management System or Timeclock, as indicated on contractor schedule on this drawing.” Will the Exterior Lighting for the Fieldhouse require a BMS contact for on/off, or will it be based on timeclock?		The lighting control system is to be provided with ability to interface with BAS system in future. a. FA-E704 Detail 7 is missing the Lighting Contactor Schedule, this will be included in Addendum 3.	3
182	1/6/26	Radius Systems			In the Addressable Fire Alarm Systems Specification 28 46 21 – 20 2.13 C. it mentions “Provide integration gateway using BACnet for connection to building automation system.” The FA-E502 ‘Schematic Fire Alarm Riser Diagram’ drawing shows the Field House Fire Alarm Riser connection to the existing High School Simplex panel via Fiber Optic Cabling. The Existing Building Automation System for the High School is already interfacing to the fire alarm system located at the Simplex panel in the existing job that will be connected to by the fiber optic cabling. Will the existing BACnet interface be utilized for interfacing the Fieldhouse fire alarm system, or will a new interface be provided in the field house for BAS BACnet Interface as it relates to an extension of the Automated Logic BAS by Radius Systems mentioned for Alternate No. 5 Mechanical Preferred Vendor for Automatic Temperature Control Systems? If a new BAS is to be provided, will the interface need to be made in the High School or Field House?		Utilize the existing BACnet interface at the high school for the Fieldhouse fire alarm system.	3
183	1/6/26	Radius Systems			In a previous RFI it was stated that there is no Mechanical or Plumbing work associated with buildings E1 through E7 support buildings. Just quickly confirming the same as it relates to Building Automation System scope since there can be required interfaces to other equipment outside of those contractor’s scope and there are Alternates 3 and 4 related to E1 and E5 within the Bid Form that Controls falls under.		Confirmed	3
184	1/6/26	Mid-Atlantic Dismantlement			If we own the removal of an existing underground storage tank. I believe it is located outside the main mechanical room, what size is it, how many gallons, so we know how much backfill. Also, are there are monitoring wells, any special instructions?	Existing M1 drawing attached to this Addendum provides general information on underground tanks as per the original building documents. These are for your information, current status of the UG tanks and structures have not been confirmed.		3
185	1/6/26	Mid-Atlantic Dismantlement			Will there need to be a temporary site fence around the building being demolished? Or is the temporary fence by the site contractor covering that?	The site fencing provided by Contract E-02 siytework will secure the site. Temp fencing and protection for excavation, trenches etc. will be the responsibility of Contract E-01 Demolition.		3
186	1/6/26	Filec Electrical Services			Can a schedule for the Muscow Lights be provided? Per detail page E708, precast bases are provided and need to be backfilled with concrete. Depth of these bases will be needed for bidding purposes.	Muscow lighting provides these details as part of their overal design.		3
187	1/6/26	Filec Electrical Services			Is the use of MC Cable allowed where concealed within walls and accessible ceilings for this project? I was unable to find anything within the spec or drawings.	Confirmed.		3
188	1/6/26	Filec Electrical Services			Are all the handholes on this project to be sized per details on page E701?			3

RFI No.	Date	Submitted By	Sheet No.	Detail/Section	Question	EDiS Response	Design Team Response	Addendum Issued
189	1/6/26	Peninsula Avoustical			Who owns the CFMF behind the metal panels at FH	Contract E-06 General Trades to provide the CFMF system. Contract E-07 to provide the sub girts, Z furring and any other fastening systems required to install their metal panels.		3

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The following previously issued Bid Package documentation is included by reference:

- BPB Sitework and Utilities dated 25 May 23
Addendum #1 dated 1 Aug 23
Addendum #2 dated 7 Aug 23
Addendum #3 dated 10 Aug 23
- BPC Foundations and Structures 31 Aug 23
Addendum #1 dated 29 Sept 23
Addendum #2 dated 11 Oct 23
Addendum #3 dated 12 Oct 23
Addendum #4 dated 20 Oct 23
Addendum #5 dated 23 Oct 23
- BPD Building Envelope & Fit-Out dated 5 Dec 23
Addendum #1 dated 28 Dec 23
Addendum #2 dated 12 Jan 24
Addendum #3 dated 19 Jan 24
Addendum #4 dated 24 Jan 24
- BPD.1 Building Envelope & Fit-Out (re-bid) dated 11 March 24
Addendum #1 dated 5 April 24
Addendum #2 dated 11 April 24
- BPD.2 Sitework, Concrete, and Paving Specifications dated 11 Oct 24
BPD.2 Sitework, Concrete, and Paving Drawings dated 18 Oct 24
BPD.2 Sitework, Concrete, and Paving Attachment A dated 11 Oct 24
Addendum #1 dated 17 Jan 25
Addendum #2 dated 29 Jan 25

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	• Consent of Surety

	• Affidavit of Employee Drug Testing Program • Affidavit of Contractor Qualifications • DBE Subcontractor List
004313	Bid Bond
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005413	Supplement to Agreement Between Owner and Contractor A132-2019
005414	Supplement to A132-2019 – Exhibit A - Insurance and Bonds
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All previously issued Bid Packages and Addendum are to be included by reference.

DRWG NO.	DRAWING NAME	BID PACKS	ISSUE DATE	LATEST REV. DATE
General – Volume 1				
G-001	Cover Sheet - Volume 1 (Addendum No. 1)	E	11/4/25	12/22/25
G-002	~~Archival Drawing List~~ Attachments A, B, & C	E	11/4/25	
G-003	Life Safety Plan - Fieldhouse	E	11/4/25	
G-005	Life Safety Plan - Storage Buildings	E	11/4/25	
G-006	Life Safety Plan – Bleachers	E	11/4/25	
Demolition				
AD-101	Demolition Plan – Existing Building Site Plan	E	11/4/25	
AD-102	Demolition Plan – Existing Building 1 st Floor	E	11/4/25	
AD-103	Demolition Plan – Existing Building 2 nd Floor	E	11/4/25	
AD-104	Demolition Plan – Existing Gym & Greenhouse	E	11/4/25	
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C100	Existing Conditions and Demolition Plan	E	11/4/25	
C101	Existing Conditions and Demolition Plan	E	11/4/25	
C102	Existing Conditions and Demolition Plan	E	11/4/25	
C103	Existing Conditions and Demolition Plan	E	11/4/25	
C104	Existing Conditions and Demolition Plan	E	11/4/25	
C105	Existing Conditions and Demolition Plan	E	11/4/25	
C106	Existing Conditions and Demolition Plan	E	11/4/25	
C107	Existing Conditions and Demolition Plan	E	11/4/25	
C110	Site Layout and Utility Plan (Addendum No. 1)	E	11/4/25	12/22/25
C111	Site Layout and Utility Plan	E	11/4/25	
C112	Site Layout and Utility Plan	E	11/4/25	
C113	Site Layout and Utility Plan (Addendum No. 1)	E	11/4/25	12/22/25
C114	Site Layout and Utility Plan	E	11/4/25	
C115	Site Layout and Utility Plan	E	11/4/25	
C116	Site Layout and Utility Plan	E	11/4/25	
C117	Site Layout and Utility Plan	E	11/4/25	
C120	Grading Plan	E	11/4/25	
C121	Grading Plan (Addendum No. 1)	E	11/4/25	12/22/25
C122	Grading Plan	E	11/4/25	
C123	Grading Plan	E	11/4/25	
C124	Grading Plan	E	11/4/25	
C125	Grading Plan	E	11/4/25	
C126	Grading Plan	E	11/4/25	

DRWG NO.	DRAWING NAME	BID PACKS	ISSUE DATE	LATEST REV. DATE
C127	Grading Plan	E	11/4/25	
C127A	Grading Plan	E	11/4/25	
C130	Storm Drainage Profiles	E	11/4/25	
C131	Storm Drainage Profiles	E	11/4/25	
C132	Storm Drainage Profiles	E	11/4/25	
C133	Storm Drainage Profiles	E	11/4/25	
C134	Storm Drainage Profiles	E	11/4/25	
C135	Storm Drainage Profiles	E	11/4/25	
C136	Storm Drainage Profiles	E	11/4/25	
C137	Storm Drainage Profiles	E	11/4/25	
C201	Cover Sheet and General Notes	E	11/4/25	
C202	Overall Construction Site Phasing	E	11/4/25	
C203	Overall Pre-Construction Site Stormwater Management Plan	E	11/4/25	
C204	Pre-Construction Site Stormwater Management Plan	E	11/4/25	
C205	Pre-Construction Site Stormwater Management Plan	E	11/4/25	
C206	Pre-Construction Site Stormwater Management Plan	E	11/4/25	
C207	Pre-Construction Site Stormwater Management Plan	E	11/4/25	
C208	Pre-Construction Site Stormwater Management Plan	E	11/4/25	
C209	Pre-Construction Site Stormwater Management Plan	E	11/4/25	
C210	Pre-Construction Site Stormwater Management Plan	E	11/4/25	
C211	Pre-Construction Site Stormwater Management Plan	E	11/4/25	
C212	Overall Construction Site Stormwater Management Plan	E	11/4/25	
C213	Construction Site Stormwater Management Plan	E	11/4/25	
C214	Construction Site Stormwater Management Plan	E	11/4/25	
C215	Construction Site Stormwater Management Plan	E	11/4/25	
C216	Construction Site Stormwater Management Plan	E	11/4/25	
C217	Construction Site Stormwater Management Plan	E	11/4/25	
C218	Construction Site Stormwater Management Plan	E	11/4/25	
C219	Construction Site Stormwater Management Plan	E	11/4/25	
C220	Construction Site Stormwater Management Plan	E	11/4/25	
C221	Construction Site Details and Notes	E	11/4/25	
C222	Construction Site Details and Notes	E	11/4/25	
C223	Construction Site Details and Notes	E	11/4/25	
C224	Construction Site Details and Notes	E	11/4/25	
C230	Post-Construction Stormwater Management Plan Facility #1	E	11/4/25	
C231	Post-Construction Stormwater Management Plan Facility #1	E	11/4/25	
C232	Post-Construction Stormwater Management Plan Facility #2	E	11/4/25	
C233	Post-Construction Stormwater Management Plan Facility #2	E	11/4/25	
C234	Post-Construction Stormwater Management Plan Facility #3	E	11/4/25	
C235	Post-Construction Stormwater Management Plan Facility #3	E	11/4/25	
C300	Record Landscape Plan	E	11/4/25	

DRWG NO.	DRAWING NAME	BID PACKS	ISSUE DATE	LATEST REV. DATE
C350	Sanitary Sewer Index Plan	E	11/4/25	
C351	Sanitary Sewer Plan and Profiles	E	11/4/25	
C352	Sanitary Sewer Plan and Profiles	E	11/4/25	
C353	Sanitary Sewer Plan and Profiles	E	11/4/25	
C354	Sanitary Sewer Plan and Profiles	E	11/4/25	
C355	Sanitary Sewer Details	E	11/4/25	
C400	Fire Marshal Record Type Plan	E	11/4/25	
C401	Fire Marshal Record Type Plan	E	11/4/25	
C402	Fire Marshal Record Type Plan	E	11/4/25	
C403	Fire Marshal Record Type Plan	E	11/4/25	
C404	Fire Marshal Record Type Plan	E	11/4/25	
C500	Site Construction Details	E	11/4/25	
C501	Site Construction Details	E	11/4/25	
C502	Site Construction Details	E	11/4/25	
C520	Athletic Field Details and Sections	E	11/4/25	
C521	Athletic Field Details and Sections	E	11/4/25	
C522	Athletic Field Details and Sections	E	11/4/25	
C523	Athletic Field Details and Sections	E	11/4/25	
C524	Athletic Field Details and Sections (Addendum No. 1)	E	11/4/25	12/22/25
Structural – Volume 2				
G-001A	Cover Sheet – Volume 2 (Addendum No. 1)	E	11/4/25	12/22/25
FS-001	Cover Sheet	E	11/4/25	
FS-002	General Notes	E	11/4/25	
FS-003	General Notes	E	11/4/25	
FS-004	Project Schedules	E	11/4/25	
FS-101	Foundation Plan – Fieldhouse	E	11/4/25	
FS-102	Roof Framing Plan - Fieldhouse	E	11/4/25	
FS-103	Storage Building E1	E	11/4/25	
FS-104	Storage Building E2 & E3	E	11/4/25	
FS-105	Storage Building E4 & E5	E	11/4/25	
FS-106	Storage Building E6 & E7	E	11/4/25	
FS-501	Typical Foundation Details	E	11/4/25	
FS-502	Typical Foundation Details	E	11/4/25	
FS-503	Foundation Details	E	11/4/25	
FS-504	Foundation Details	E	11/4/25	
FS-511	Typical Framing Details	E	11/4/25	
FS-512	Typical Framing Details	E	11/4/25	
FS-513	Typical Framing Details	E	11/4/25	
FS-514	Framing Sections	E	11/4/25	
FS-515	Framing Sections	E	11/4/25	

DRWG NO.	DRAWING NAME	BID PACKS	ISSUE DATE	LATEST REV. DATE
Architectural				
FA-001	Accessibility Details	E	11/4/25	
FA-002	Architectural Site Plan & Site Details (Addendum No. 2)	E	11/4/25	12/26/25
FA-003	Exterior Wall Assemblies and Site Details	E	11/4/25	
FA-004	Abbreviations, Legends, Partition Types, Notes & Details	E	11/4/25	
FA-005	Stadium Turf Field Graphics (Addendum No. 1)	E		12/22/25
FA-101	Fieldhouse - Floor Plan	E	11/4/25	
FA-131	Fieldhouse - First Floor Reflected Ceiling Plan & Ceiling Details	E	11/4/25	
FA-151	Fieldhouse - Finish Plan	E	11/4/25	
FA-181	Fieldhouse - Roof Plan	E	11/4/25	
FA-201	Fieldhouse - Exterior Building Elevations	E	11/4/25	
FA-301	Fieldhouse - Building Sections (Addendum No. 2)	E	11/4/25	12/26/25
FA-311	Fieldhouse - Wall Sections	E	11/4/25	
FA-312	Fieldhouse - Wall Sections (Addendum No. 2)	E	11/4/25	12/26/25
FA-313	Fieldhouse - Wall Sections (Addendum No. 2)	E	11/4/25	12/26/25
FA-431	Enlarged Plans - Toilet Rooms	E	11/4/25	
FA-441	Interior Elevations	E	11/4/25	
FA-511	Main Entrance Sign Details	E	11/4/25	
FA-512	External Signage Main Building Patio	E	11/4/25	
FA-521	Interior Doors & Misc. Details	E	11/4/25	
FA-531	Hollow Metal Door Details	E	11/4/25	
FA-541	Coiling Door Details	E	11/4/25	
FA-542	Coiling Door Details	E	11/4/25	
FA-543	Coiling Door Details	E	11/4/25	
FA-561	Louver Types and Details	E	11/4/25	
FA-571	Hollow Metal Door Details	E	11/4/25	
FA-581	Fieldhouse SF & Louver Schedule & Details	E	11/4/25	
FA-591	Roofing Details	E	11/4/25	
FA-601	Door Schedule, Door & Frame Types	E	11/4/25	
FA-701	Home Bleachers Plan	E	11/4/25	
FA-702	Press Box Home	E	11/4/25	
FA-703	Home Bleachers - Details	E	11/4/25	
FA-704	Visitor Bleachers – Plans & Details (Addendum No. 2)	E	11/4/25	12/26/25
FA-801	Building E1 – Alternate 3	E	11/4/25	
FA-802	Building E2 & E3	E	11/4/25	
FA-803	Building E4 – Alternate 4	E	11/4/25	
FA-803A	Building E4 Wall Sections	E	11/4/25	
FA-804	Building E5	E	11/4/25	
FA-804A	Building E5 Wall Sections	E	11/4/25	
FA-805	Building E6 & E7	E	11/4/25	
FA-805A	Building 6 & 7 Sections	E	11/4/25	

DRWG NO.	DRAWING NAME	BID PACKS	ISSUE DATE	LATEST REV. DATE
Mechanical				
FA-M001	Legends & Abbreviations – HVAC (Addendum No. 1)	E	11/4/25	12/22/25
FA-M101	First Floor – Fieldhouse – HVAC	E	11/4/25	
FA-MP101	First Floor – Fieldhouse – Mechanical Piping	E	11/4/25	
FA-M181	Roof Plan – Fieldhouse – HVAC	E	11/4/25	
FA-M301	Details – HVAC	E	11/4/25	
FA-M302	Details – HVAC	E	11/4/25	
FA-M303	Details – HVAC	E	11/4/25	
FA-M304	Details – HVAC	E	11/4/25	
FA-M401	Automatic Temperature Controls	E	11/4/25	
FA-M402	Automatic Temperature Controls	E	11/4/25	
FA-M403	Automatic Temperature Controls	E	11/4/25	
FA-M501	Schedules	E	11/4/25	
Fire Protection				
FA-F101	Fire Protection Zoning Plan - Fieldhouse	E	11/4/25	
FA-F302	Details - Fire Protection	E	11/4/25	
Plumbing				
FA-P001	Legends & Abbreviations - Plumbing	E	11/4/25	
FA-P101	First Floor – Fieldhouse – Plumbing	E	11/4/25	
FA-P181	Roof Plan – Fieldhouse – Plumbing	E	11/4/25	
FA-P301	Details – Plumbing	E	11/4/25	
FA-P302	Details – Plumbing	E	11/4/25	
FA-P303	Details – Plumbing	E	11/4/25	
FA-P401	Risers – Plumbing	E	11/4/25	
FA-P401	Risers - Plumbing	E	11/4/25	
FA-P501	Schedules – Plumbing	E	11/4/25	
Electrical				
FA-E001	Electrical Legend, Schedules & Abbreviations	E	11/4/25	
FA-E002	Lighting Fixture Schedule	E	11/4/25	
FA-E003	Electrical Site Plan	E	11/4/25	
FA-E004	Electrical Site Plan	E	11/4/25	
FA-E005	Electrical Site Plan	E	11/4/25	
FA-E006	Electrical Site Plan	E	11/4/25	
FA-E101	Fieldhouse – Power, Lighting and Fire Alarm	E	11/4/25	
FA-E102	Building E1,E4,&E5 – Power and Lighting	E	11/4/25	
FA-E103	Building E2, E3, E6, E6-S, E7 & E7-S – Power and Lighting	E	11/4/25	
FA-E501	Schematic Power Riser Diagram	E	11/4/25	
FA-E502	Schematic Fire Alarm Riser Diagram	E	11/4/25	

DRWG NO.	DRAWING NAME	BID PACKS	ISSUE DATE	LATEST REV. DATE
FA-E601	Panel Schedules	E	11/4/25	
FA-E602	Panel Schedules	E	11/4/25	
FA-E603	Mechanical Equipment Connection Schedule	E	11/4/25	
FA-E701	Electrical Details	E	11/4/25	
FA-E702	Electrical Details	E	11/4/25	
FA-E703	Electrical Details	E	11/4/25	
FA-E704	Electrical Details	E	11/4/25	
FA-E705	Electrical Details	E	11/4/25	
FA-E706	Electrical Details	E	11/4/25	
FA-E707	Electrical Details	E	11/4/25	
FA-E708	Electrical Details	E	11/4/25	
FA-E709	Electrical Details	E	11/4/25	
Technology And Security				
FA-T000	Symbols And Notes	E	11/4/25	
FA-T100	Site Plan	E	11/4/25	
FA-T101	Building E1, E4, & E5 - Technology	E	11/4/25	
FA-T102	Building E2, E3, E6, E7 - Technology	E	11/4/25	
FA-T137	Field House Technology Plan	E	11/4/25	
FA-T500	Telecom Wiring	E	11/4/25	
FA-T501	Pathways And Faceplates	E	11/4/25	
FA-TY000	Security Symbols and Notes	E	11/4/25	
FA-TY100	Site Security Plan	E	11/4/25	
FA-TY101	Building E1, E4, & E5 - Security	E	11/4/25	
FA-TY102	Building E2, E3, E6 & E7 - Security	E	11/4/25	
FA-TY137	Fieldhouse Security Plan	E	11/4/25	
FA-TY500	Intrusion Detection System	E	11/4/25	
FA-TY501	Access Control System	E	11/4/25	
FA-TY502	Video Surveillance System	E	11/4/25	
G-001B	Cover Sheet - Volume 3 (Addendum No. 1)	E	11/4/25	12/22/25
G-002	Attachments A, B, & C Drawing List	E	11/4/25	
Attachment "A" Archival Drawing List		E	11/4/25	
Attachment "B" Civil and Demolition Clarification Notes		E	11/4/25	
Attachment "C" Final Cleaning Contract Package		E	11/4/25	

END OF SECTION

CONTRACT NO: E-01 - DEMOLITION AND REMOVAL

BID FORM

For Bids Due: _____

To: NCCVT School District
1417 Newport Road
Wilmington, DE 19804

Name of Bidder: _____

Bidder Address: _____

Contact Name: _____ E-Mail Address: _____

Delaware Business License No.: _____ Taxpayer ID No.: _____

(Other License Nos.): _____

(A copy of Bidder's Licenses must be attached to this form.)

Phone No.: (____) _____ - _____

Fax No.: (____) _____ - _____

The undersigned, representing that he has read and understands the Bidding Documents and that this bid is made in accordance therewith, that he has visited the site and has familiarized himself with the local conditions under which the Work is to be performed, and that his bid is based upon the materials, systems and equipment described in the Bidding Documents without exception, hereby proposes and agrees to provide all labor, materials, plant, equipment, supplies, transport and other facilities required to execute the work described by the aforesaid documents for the lump sum itemized below:

\$ _____ (\$ _____)

ALLOWANCES

We/I confirm that an Allowances in the amount of \$75,000.00 have been included in the Base Bid price listed above. This allowance is to be used at the Owner and Construction Manager's discretion. All remaining allowance shall be returned to the Owner at completion.

I/We acknowledge Addendums numbered _____ and the price(s) submitted include any cost/schedule impact they may have.

This bid shall remain valid and cannot be withdrawn for sixty (60) days from the date of opening of bids, and the undersigned shall abide by the Bid Security forfeiture provisions. Bid Security is attached to this Bid (if required).

The Owner shall have the right to reject any or all bids, and to waive any informality or irregularity in any bid received.

This bid is based upon work being accomplished by the Sub-Contractors named on the list attached to this bid.

Should I/We be awarded this contract, I/We pledge to achieve substantial completion of all the work within the durations included in the bid schedule provided and Section 013216 Const. Schedule.

The undersigned represents and warrants that he has complied and shall comply with all requirements of local, state, and national laws; that no legal requirement has been or shall be violated in making or accepting this bid, in awarding the contract to him or in the prosecution of the work required; that the bid is legal and firm; that he has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken action in restraint of free competitive bidding.

Upon receipt of written notice of the acceptance of this Bid, the Bidder shall, within twenty (20) calendar days, execute the agreement in the required form and deliver the Contract Bonds, and Insurance Certificates, required by the Contract Documents.

I am/We are an Individual/a Partnership/a Corporation

By _____ Trading as _____
(Individual's / General Partner's / Corporate Name)

(State of Corporation)

Business Address: _____

Witness: _____ By: _____
(SEAL) (Authorized Signature)
(Title)

Date: _____

ATTACHMENTS

Sub-Contractor List
Non-Collusion Statement
Bid Bond
Consent of Surety
Affidavit of Employee Drug Testing Program
Affidavit of Contractor Qualifications
DBE Subcontractor List
New Castle County Contractor License
(Others as Required by Project Manuals)

SUBCONTRACTOR LIST

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b of the Delaware Code, the following subcontractor listing must accompany any bid submittal. The bidder must list **in each category** the full name and address (City & State) of the sub-contractor that the bidder will be using to perform the work and provide material for that subcontractor category. Should the bidder's listed subcontractor intend to provide any of their subcontractor category of work through a third-tier contractor, the bidder shall list that third-tier contractor's full name and address (City & State). **If the bidder intends to perform any category of work itself, it must list its full name and address.** For clarification, if the bidder intends to perform the work themselves, the bidder **may not** insert "not applicable", "N/A", "self" or anything other than its own full name and address (City & State). To do so shall cause the bid to be rejected. In addition, the failure to produce a completed subcontractor list with the bid submittal shall cause the bid to be rejected. If you have more than three (3) third-tier contractors to report in any subcontractor category, print out additional page(s) containing the appropriate category, complete the rest of your list of third-tier contractors for that category, notate the addition in parentheses as (CONTINUATION) next to the subcontractor category and an asterisk (*) next to any additional third-tier contractors, and submit it with your bid.

<u>Subcontractor Category</u>	<u>Subcontractor</u>	<u>Address (City & State)</u>	<u>Subcontractors tax-payer ID # or Delaware Business license #</u>
1. <u>Demolition</u>			
2. _____			
3. _____			
4. _____			
5. _____			
6. <u>NO ADDITIONAL ENTRIES REQUIRED</u>			

NON-COLLUSION STATEMENT

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

All the terms and conditions of Contract: _____ have been thoroughly examined and are understood.

NAME OF BIDDER: _____

AUTHORIZED REPRESENTATIVE
(TYPED): _____

AUTHORIZED REPRESENTATIVE
(SIGNATURE): _____

TITLE: _____

ADDRESS OF BIDDER: _____

E-MAIL: _____

PHONE NUMBER: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

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

CONSENT OF SURETY

DATE _____

To: NCC Vocational Technical School District
1417 Newport Road
Wilmington, DE 19804

Gentlemen:

We, the _____

(Surety Company's Address)

a Surety Company authorized to do business in the State of Delaware hereby agrees that if

(Contractor)

(Address)

is awarded the Contract No. _____

We will write the required Performance and/or Labor and Material Bond required by Paragraph 9 of the Instructions to Bidders.

(Surety Company)

By _____
(Attorney-in-Fact)

AFFIDAVIT
OF
EMPLOYEE DRUG TESTING PROGRAM

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

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

Contractor/Subcontractor Name: _____

Contractor/Subcontractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

Sworn to and Subscribed before me this _____ day of _____ 20_____.

My Commission expires _____. NOTARY PUBLIC _____.

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

**AFFIDAVIT
OF
CONTRACTOR QUALIFICATIONS**

We hereby certify that we will abide by the contractor's qualifications outlined in the construction bid specifications for the duration of the contract term.

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b.3 of the Delaware Code, after a contract has been awarded the successful bidder shall not substitute another subcontractor whose name was submitted on the Subcontractor Form except for the reasons in the statute and not without written consent from the awarding agency. Failure to utilize the subcontractors on the list will subject the successful bidder to penalties as outlined in the General Requirements Section 5.2 of the contract.

Contractor Name: _____

Contractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

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

DBE SUBCONTRACTOR LIST

DBE Name	DBE Address	DBE Phone Number	DBE Email address	DelDOT or OSD Registration Number	DBE % of Contract	Description of Work

Total DBEs on project: _____

END OF SECTION

CONTRACT NO: E-02 - SITEWORK & UTILITIES

BID FORM

For Bids Due: _____

To: NCCVT School District
1417 Newport Road
Wilmington, DE 19804

Name of Bidder: _____

Bidder Address: _____

Contact Name: _____ E-Mail Address: _____

Delaware Business License No.: _____ Taxpayer ID No.: _____

(Other License Nos.): _____

(A copy of Bidder's Licenses must be attached to this form.)

Phone No.: (____) _____ - _____ Fax No.: (____) _____ - _____

The undersigned, representing that he has read and understands the Bidding Documents and that this bid is made in accordance therewith, that he has visited the site and has familiarized himself with the local conditions under which the Work is to be performed, and that his bid is based upon the materials, systems and equipment described in the Bidding Documents without exception, hereby proposes and agrees to provide all labor, materials, plant, equipment, supplies, transport and other facilities required to execute the work described by the aforesaid documents for the lump sum itemized below:

\$ _____ (\$ _____)

ALTERNATES

Alternate prices conform to applicable project specification section. Refer to specifications for a complete description of the following Alternates. An "ADD" or "DEDUCT" amount is indicated by the crossed out part that does not apply.

Alternate No. 3: Provide Building E1 work associated with your contract scope.

Add/Deduct _____ (\$ _____)

Alternate No. 4: Provide Building E5 work associated with your contract scope.

Add/Deduct _____ (\$ _____)

ALLOWANCES

We/I confirm that the following Allowances have been included in the Base Bid price listed above.

1. \$250,000 allowance for soil remediation to be allocated by the Owner/Construction Manager.
2. \$100,000 allowance for work to be determined by Owner and Construction Manager.

I/We acknowledge Addendums numbered _____ and the price(s) submitted include any cost/schedule impact they may have.

This bid shall remain valid and cannot be withdrawn for sixty (60) days from the date of opening of bids, and the undersigned shall abide by the Bid Security forfeiture provisions. Bid Security is attached to this Bid (if required).

The Owner shall have the right to reject any or all bids, and to waive any informality or irregularity in any bid received.

This bid is based upon work being accomplished by the Sub-Contractors named on the list attached to this bid.

Should I/We be awarded this contract, I/We pledge to achieve substantial completion of all the work within the durations included in the bid schedule provided and Section 013216 Const. Schedule.

The undersigned represents and warrants that he has complied and shall comply with all requirements of local, state, and national laws; that no legal requirement has been or shall be violated in making or accepting this bid, in awarding the contract to him or in the prosecution of the work required; that the bid is legal and firm; that he has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken action in restraint of free competitive bidding.

Upon receipt of written notice of the acceptance of this Bid, the Bidder shall, within twenty (20) calendar days, execute the agreement in the required form and deliver the Contract Bonds, and Insurance Certificates, required by the Contract Documents.

I am/We are an Individual/a Partnership/a Corporation

By _____ Trading as _____
(Individual's / General Partner's / Corporate Name)

(State of Corporation)

Business Address:

Witness: _____ By: _____
(SEAL) (Authorized Signature)
(Title)
Date: _____

ATTACHMENTS

Sub-Contractor List
Non-Collusion Statement
Bid Bond
Consent of Surety
Affidavit of Employee Drug Testing Program
Affidavit of Contractor Qualifications
DBE Subcontractor List
New Castle County Contractor License
(Others as Required by Project Manuals)

SUBCONTRACTOR LIST

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b of the Delaware Code, the following subcontractor listing must accompany any bid submittal. The bidder must list **in each category** the full name and address (City & State) of the sub-contractor that the bidder will be using to perform the work and provide material for that subcontractor category. Should the bidder's listed subcontractor intend to provide any of their subcontractor category of work through a third-tier contractor, the bidder shall list that third-tier contractor's full name and address (City & State). **If the bidder intends to perform any category of work itself, it must list its full name and address.** For clarification, if the bidder intends to perform the work themselves, the bidder **may not** insert "not applicable", "N/A", "self" or anything other than its own full name and address (City & State). To do so shall cause the bid to be rejected. In addition, the failure to produce a completed subcontractor list with the bid submittal shall cause the bid to be rejected. If you have more than three (3) third-tier contractors to report in any subcontractor category, print out additional page(s) containing the appropriate category, complete the rest of your list of third-tier contractors for that category, notate the addition in parentheses as (CONTINUATION) next to the subcontractor category and an asterisk (*) next to any additional third-tier contractors, and submit it with your bid.

<u>Subcontractor Category</u>	<u>Subcontractor</u>	<u>Address (City & State)</u>	<u>Subcontractors tax-payer ID # or Delaware Business license #</u>
1. <u>Sitework</u>			
2. <u>Concrete Paving & Curbs</u>			
3. <u>Asphalt Paving</u>			
4. <u>Fencing</u>			
5. <u>Turf Field</u>			
6. <u>NO ADDITIONAL ENTRIES REQUIRED</u>			

NON-COLLUSION STATEMENT

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

All the terms and conditions of Contract: _____ have been thoroughly examined and are understood.

NAME OF BIDDER: _____

AUTHORIZED REPRESENTATIVE
(TYPED): _____

AUTHORIZED REPRESENTATIVE
(SIGNATURE): _____

TITLE: _____

ADDRESS OF BIDDER: _____

E-MAIL: _____

PHONE NUMBER: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

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

CONSENT OF SURETY

DATE _____

To: NCC Vocational Technical School District
1417 Newport Road
Wilmington, DE 19804

Gentlemen:

We, the _____

(Surety Company's Address)

a Surety Company authorized to do business in the State of Delaware hereby agrees that if

(Contractor)

(Address)

is awarded the Contract No. _____

We will write the required Performance and/or Labor and Material Bond required by Paragraph 9 of the Instructions to Bidders.

(Surety Company)

By _____
(Attorney-in-Fact)

AFFIDAVIT
OF
EMPLOYEE DRUG TESTING PROGRAM

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

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

Contractor/Subcontractor Name: _____

Contractor/Subcontractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

Sworn to and Subscribed before me this _____ day of _____ 20_____.

My Commission expires _____. NOTARY PUBLIC _____.

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

**AFFIDAVIT
OF
CONTRACTOR QUALIFICATIONS**

We hereby certify that we will abide by the contractor's qualifications outlined in the construction bid specifications for the duration of the contract term.

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b.3 of the Delaware Code, after a contract has been awarded the successful bidder shall not substitute another subcontractor whose name was submitted on the Subcontractor Form except for the reasons in the statute and not without written consent from the awarding agency. Failure to utilize the subcontractors on the list will subject the successful bidder to penalties as outlined in the General Requirements Section 5.2 of the contract.

Contractor Name: _____

Contractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

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

DBE SUBCONTRACTOR LIST

DBE Name	DBE Address	DBE Phone Number	DBE Email address	DelDOT or OSD Registration Number	DBE % of Contract	Description of Work

Total DBEs on project: _____

END OF SECTION

CONTRACT NO: E-04 - STRUCTURAL STEEL, JOISTS, DECK AND MISC. METALS

BID FORM

For Bids Due: _____

To: NCCVT School District
1417 Newport Road
Wilmington, DE 19804

Name of Bidder: _____

Bidder Address: _____

Contact Name: _____ E-Mail Address: _____

Delaware Business License No.: _____ Taxpayer ID No.: _____

(Other License Nos.): _____

(A copy of Bidder's Licenses must be attached to this form.)

Phone No.: (____) _____ - _____ Fax No.: (____) _____ - _____

The undersigned, representing that he has read and understands the Bidding Documents and that this bid is made in accordance therewith, that he has visited the site and has familiarized himself with the local conditions under which the Work is to be performed, and that his bid is based upon the materials, systems and equipment described in the Bidding Documents without exception, hereby proposes and agrees to provide all labor, materials, plant, equipment, supplies, transport and other facilities required to execute the work described by the aforesaid documents for the lump sum itemized below:

\$ _____ (\$ _____)

ALTERNATES

Alternate prices conform to applicable project specification section. Refer to specifications for a complete description of the following Alternates. An "ADD" or "DEDUCT" amount is indicated by the crossed out part that does not apply.

Alternate No. 3: Provide Building E1 work associated with your contract scope.

Add/Deduct _____ (\$ _____)

Alternate No. 4: Provide Building E5 work associated with your contract scope.

Add/Deduct _____ (\$ _____)

ALLOWANCES

We/I confirm that an Allowances in the amount of \$20,000 have been included in the Base Bid price listed above. This allowance is to be used at the Owner and Construction Manager's discretion. All remaining allowance shall be returned to the Owner at completion.

I/We acknowledge Addendums numbered _____ and the price(s) submitted include any cost/schedule impact they may have.

This bid shall remain valid and cannot be withdrawn for sixty (60) days from the date of opening of bids, and the undersigned shall abide by the Bid Security forfeiture provisions. Bid Security is attached to this Bid (if required).

The Owner shall have the right to reject any or all bids, and to waive any informality or irregularity in any bid received.

This bid is based upon work being accomplished by the Sub-Contractors named on the list attached to this bid.

Should I/We be awarded this contract, I/We pledge to achieve substantial completion of all the work within the durations included in the bid schedule provided and Section 013216 Const. Schedule.

The undersigned represents and warrants that he has complied and shall comply with all requirements of local, state, and national laws; that no legal requirement has been or shall be violated in making or accepting this bid, in awarding the contract to him or in the prosecution of the work required; that the bid is legal and firm; that he has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken action in restraint of free competitive bidding.

Upon receipt of written notice of the acceptance of this Bid, the Bidder shall, within twenty (20) calendar days, execute the agreement in the required form and deliver the Contract Bonds, and Insurance Certificates, required by the Contract Documents.

I am/We are an Individual/a Partnership/a Corporation

By _____ Trading as _____
(Individual's / General Partner's / Corporate Name)

(State of Corporation)

Business Address: _____

Witness: _____ By: _____
(SEAL) (Authorized Signature)

(Title)

Date: _____

ATTACHMENTS

Sub-Contractor List
Non-Collusion Statement
Bid Bond
Consent of Surety
Affidavit of Employee Drug Testing Program
Affidavit of Contractor Qualifications
DBE Subcontractor List
New Castle County Contractor License
(Others as Required by Project Manuals)

SUBCONTRACTOR LIST

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b of the Delaware Code, the following subcontractor listing must accompany any bid submittal. The bidder must list **in each category** the full name and address (City & State) of the sub-contractor that the bidder will be using to perform the work and provide material for that subcontractor category. Should the bidder's listed subcontractor intend to provide any of their subcontractor category of work through a third-tier contractor, the bidder shall list that third-tier contractor's full name and address (City & State). **If the bidder intends to perform any category of work itself, it must list its full name and address.** For clarification, if the bidder intends to perform the work themselves, the bidder **may not** insert "not applicable", "N/A", "self" or anything other than its own full name and address (City & State). To do so shall cause the bid to be rejected. In addition, the failure to produce a completed subcontractor list with the bid submittal shall cause the bid to be rejected. If you have more than three (3) third-tier contractors to report in any subcontractor category, print out additional page(s) containing the appropriate category, complete the rest of your list of third-tier contractors for that category, notate the addition in parentheses as (CONTINUATION) next to the subcontractor category and an asterisk (*) next to any additional third-tier contractors, and submit it with your bid.

<u>Subcontractor Category</u>	<u>Subcontractor</u>	<u>Address (City & State)</u>	<u>Subcontractors tax-payer ID # or Delaware Business license #</u>
1. <u>Structural Steel</u>			
2. <u>Miscellaneous Metals</u>			
3. _____			
4. _____			
5. _____			
6. <u>NO ADDITIONAL ENTRIES REQUIRED</u>			

NON-COLLUSION STATEMENT

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

All the terms and conditions of Contract: _____ have been thoroughly examined and are understood.

NAME OF BIDDER: _____

AUTHORIZED REPRESENTATIVE
(TYPED): _____

AUTHORIZED REPRESENTATIVE
(SIGNATURE): _____

TITLE: _____

ADDRESS OF BIDDER: _____

E-MAIL: _____

PHONE NUMBER: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

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

CONSENT OF SURETY

DATE _____

To: NCC Vocational Technical School District
1417 Newport Road
Wilmington, DE 19804

Gentlemen:

We, the _____

(Surety Company's Address)

a Surety Company authorized to do business in the State of Delaware hereby agrees that if

(Contractor)

(Address)

is awarded the Contract No. _____

We will write the required Performance and/or Labor and Material Bond required by Paragraph 9 of the Instructions to Bidders.

(Surety Company)

By _____
(Attorney-in-Fact)

AFFIDAVIT
OF
EMPLOYEE DRUG TESTING PROGRAM

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

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

Contractor/Subcontractor Name: _____

Contractor/Subcontractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

Sworn to and Subscribed before me this _____ day of _____ 20_____.

My Commission expires _____. NOTARY PUBLIC _____.

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

**AFFIDAVIT
OF
CONTRACTOR QUALIFICATIONS**

We hereby certify that we will abide by the contractor's qualifications outlined in the construction bid specifications for the duration of the contract term.

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b.3 of the Delaware Code, after a contract has been awarded the successful bidder shall not substitute another subcontractor whose name was submitted on the Subcontractor Form except for the reasons in the statute and not without written consent from the awarding agency. Failure to utilize the subcontractors on the list will subject the successful bidder to penalties as outlined in the General Requirements Section 5.2 of the contract.

Contractor Name: _____

Contractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

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

DBE SUBCONTRACTOR LIST

DBE Name	DBE Address	DBE Phone Number	DBE Email address	DelDOT or OSD Registration Number	DBE % of Contract	Description of Work

Total DBEs on project: _____

END OF SECTION

CONTRACT NO: E-05 - UNIT MASONRY

BID FORM

For Bids Due: _____

To: NCCVT School District
1417 Newport Road
Wilmington, DE 19804

Name of Bidder: _____

Bidder Address: _____

Contact Name: _____ E-Mail Address: _____

Delaware Business License No.: _____ Taxpayer ID No.: _____

(Other License Nos.): _____

(A copy of Bidder's Licenses must be attached to this form.)

Phone No.: (____) _____ - _____ Fax No.: (____) _____ - _____

The undersigned, representing that he has read and understands the Bidding Documents and that this bid is made in accordance therewith, that he has visited the site and has familiarized himself with the local conditions under which the Work is to be performed, and that his bid is based upon the materials, systems and equipment described in the Bidding Documents without exception, hereby proposes and agrees to provide all labor, materials, plant, equipment, supplies, transport and other facilities required to execute the work described by the aforesaid documents for the lump sum itemized below:

\$ _____ (\$ _____)

ALTERNATES

Alternate prices conform to applicable project specification section. Refer to specifications for a complete description of the following Alternates. An "ADD" or "DEDUCT" amount is indicated by the crossed out part that does not apply.

Alternate No. 3: Provide Building E1 work associated with your contract scope.

Add/Deduct _____ (\$ _____)

Alternate No. 4: Provide Building E5 work associated with your contract scope.

Add/Deduct _____ (\$ _____)

Alternate No. 9: Provide all work associated with Alternate #9 Brick Paver Patio, Drawing FA-512.

Add/Deduct _____ (\$ _____)

ALLOWANCES

We/I confirm that an Allowances in the amount of \$25,000 have been included in the Base Bid price listed above. This allowance is to be used at the Owner and Construction Manager's discretion. All remaining allowance shall be returned to the Owner at completion.

I/We acknowledge Addendums numbered _____ and the price(s) submitted include any cost/schedule impact they may have.

This bid shall remain valid and cannot be withdrawn for sixty (60) days from the date of opening of bids, and the undersigned shall abide by the Bid Security forfeiture provisions. Bid Security is attached to this Bid (if required).

The Owner shall have the right to reject any or all bids, and to waive any informality or irregularity in any bid received.

This bid is based upon work being accomplished by the Sub-Contractors named on the list attached to this bid.

Should I/We be awarded this contract, I/We pledge to achieve substantial completion of all the work within the durations included in the bid schedule provided and Section 013216 Const. Schedule.

The undersigned represents and warrants that he has complied and shall comply with all requirements of local, state, and national laws; that no legal requirement has been or shall be violated in making or accepting this bid, in awarding the contract to him or in the prosecution of the work required; that the bid is legal and firm; that he has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken action in restraint of free competitive bidding.

Upon receipt of written notice of the acceptance of this Bid, the Bidder shall, within twenty (20) calendar days, execute the agreement in the required form and deliver the Contract Bonds, and Insurance Certificates, required by the Contract Documents.

I am/We are an Individual/a Partnership/a Corporation

By _____ Trading as _____
(Individual's / General Partner's / Corporate Name)

(State of Corporation)

Business Address: _____

Witness: _____ By: _____
(SEAL) (Authorized Signature)
(Title)
Date: _____

ATTACHMENTS

Sub-Contractor List
Non-Collusion Statement
Bid Bond
Consent of Surety
Affidavit of Employee Drug Testing Program
Affidavit of Contractor Qualifications
DBE Subcontractor List
New Castle County Contractor License
(Others as Required by Project Manuals)

SUBCONTRACTOR LIST

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b of the Delaware Code, the following subcontractor listing must accompany any bid submittal. The bidder must list **in each category** the full name and address (City & State) of the sub-contractor that the bidder will be using to perform the work and provide material for that subcontractor category. Should the bidder’s listed subcontractor intend to provide any of their subcontractor category of work through a third-tier contractor, the bidder shall list that third-tier contractor’s full name and address (City & State). **If the bidder intends to perform any category of work itself, it must list its full name and address.** For clarification, if the bidder intends to perform the work themselves, the bidder **may not** insert “not applicable”, “N/A”, “self” or anything other than its own full name and address (City & State). To do so shall cause the bid to be rejected. In addition, the failure to produce a completed subcontractor list with the bid submittal shall cause the bid to be rejected. If you have more than three (3) third-tier contractors to report in any subcontractor category, print out additional page(s) containing the appropriate category, complete the rest of your list of third-tier contractors for that category, notate the addition in parentheses as (CONTINUATION) next to the subcontractor category and an asterisk (*) next to any additional third-tier contractors, and submit it with your bid.

<u>Subcontractor Category</u>	<u>Subcontractor</u>	<u>Address (City & State)</u>	<u>Subcontractors tax-payer ID # or Delaware Business license #</u>
1. <u>Masonry</u>			
2. <u>Spray Foam Assembly</u>			
3. _____			
4. _____			
5. _____			
6. <u>NO ADDITIONAL ENTRIES REQUIRED</u>			

NON-COLLUSION STATEMENT

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

All the terms and conditions of Contract: _____ have been thoroughly examined and are understood.

NAME OF BIDDER: _____

AUTHORIZED REPRESENTATIVE
(TYPED): _____

AUTHORIZED REPRESENTATIVE
(SIGNATURE): _____

TITLE: _____

ADDRESS OF BIDDER: _____

E-MAIL: _____

PHONE NUMBER: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

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

CONSENT OF SURETY

DATE _____

To: NCC Vocational Technical School District
1417 Newport Road
Wilmington, DE 19804

Gentlemen:

We, the _____

(Surety Company's Address)

a Surety Company authorized to do business in the State of Delaware hereby agrees that if

(Contractor)

(Address)

is awarded the Contract No. _____

We will write the required Performance and/or Labor and Material Bond required by Paragraph 9 of the Instructions to Bidders.

(Surety Company)

By _____
(Attorney-in-Fact)

AFFIDAVIT
OF
EMPLOYEE DRUG TESTING PROGRAM

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

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

Contractor/Subcontractor Name: _____

Contractor/Subcontractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

Sworn to and Subscribed before me this _____ day of _____ 20_____.

My Commission expires _____. NOTARY PUBLIC _____.

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

**AFFIDAVIT
OF
CONTRACTOR QUALIFICATIONS**

We hereby certify that we will abide by the contractor's qualifications outlined in the construction bid specifications for the duration of the contract term.

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b.3 of the Delaware Code, after a contract has been awarded the successful bidder shall not substitute another subcontractor whose name was submitted on the Subcontractor Form except for the reasons in the statute and not without written consent from the awarding agency. Failure to utilize the subcontractors on the list will subject the successful bidder to penalties as outlined in the General Requirements Section 5.2 of the contract.

Contractor Name: _____

Contractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

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

DBE SUBCONTRACTOR LIST

DBE Name	DBE Address	DBE Phone Number	DBE Email address	DelDOT or OSD Registration Number	DBE % of Contract	Description of Work

Total DBEs on project: _____

END OF SECTION

CONTRACT NO: E-06 –GENERAL TRADES-CARPENTRY, CFMF, GYP ASSEMBLIES, ACT CLGS.
BID FORM

For Bids Due: _____

To: NCCVT School District
1417 Newport Road
Wilmington, DE 19804

Name of Bidder: _____

Bidder Address: _____

Contact Name: _____ E-Mail Address: _____

Delaware Business License No.: _____ Taxpayer ID No.: _____

(Other License Nos.): _____

(A copy of Bidder's Licenses must be attached to this form.)

Phone No.: (____) _____ - _____

Fax No.: (____) _____ - _____

The undersigned, representing that he has read and understands the Bidding Documents and that this bid is made in accordance therewith, that he has visited the site and has familiarized himself with the local conditions under which the Work is to be performed, and that his bid is based upon the materials, systems and equipment described in the Bidding Documents without exception, hereby proposes and agrees to provide all labor, materials, plant, equipment, supplies, transport and other facilities required to execute the work described by the aforesaid documents for the lump sum itemized below:

\$ _____ (\$ _____)

ALTERNATES

Alternate prices conform to applicable project specification section. Refer to specifications for a complete description of the following Alternates. An "ADD" or "DEDUCT" amount is indicated by the crossed out part that does not apply.

Alternate No. 3: Provide Building E1 work associated with your contract scope.

Add/Deduct _____ (\$ _____)

Alternate No. 4: Provide Building E5 work associated with your contract scope.

Add/Deduct _____ (\$ _____)

ALLOWANCES

We/I confirm that the following Allowances have been included in the Base Bid price listed above.

1. \$50,000.00 for work be used at the Owner and Construction Manager's discretion. All remaining allowance shall be returned to the Owner at completion.
2. \$325,000 to provide dumpsters for **Phase I and Phase II** portions of the project. Work to be directed by the owner and CM.
3. **\$25,000 for the concrete foundations for the scoreboards.**
4. **\$40,000 for the steel support structures for the scoreboards.**

I/We acknowledge Addendums numbered _____ and the price(s) submitted include any cost/schedule impact they may have.

This bid shall remain valid and cannot be withdrawn for sixty (60) days from the date of opening of bids, and the undersigned shall abide by the Bid Security forfeiture provisions. Bid Security is attached to this Bid (if required).

The Owner shall have the right to reject any or all bids, and to waive any informality or irregularity in any bid received.

This bid is based upon work being accomplished by the Sub-Contractors named on the list attached to this bid.

Should I/We be awarded this contract, I/We pledge to achieve substantial completion of all the work within the durations included in the bid schedule provided and Section 013216 Const. Schedule.

The undersigned represents and warrants that he has complied and shall comply with all requirements of local, state, and national laws; that no legal requirement has been or shall be violated in making or accepting this bid, in awarding the contract to him or in the prosecution of the work required; that the bid is legal and firm; that he has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken action in restraint of free competitive bidding.

Upon receipt of written notice of the acceptance of this Bid, the Bidder shall, within twenty (20) calendar days, execute the agreement in the required form and deliver the Contract Bonds, and Insurance Certificates, required by the Contract Documents.

I am/We are an Individual/a Partnership/a Corporation

By _____ Trading as _____
(Individual's / General Partner's / Corporate Name)

(State of Corporation)

Business Address: _____

Witness: _____ By: _____
(SEAL) (Authorized Signature)

(Title)

Date: _____

ATTACHMENTS

Sub-Contractor List
Non-Collusion Statement
Bid Bond
Consent of Surety
Affidavit of Employee Drug Testing Program
Affidavit of Contractor Qualifications
DBE Subcontractor List
New Castle County Contractor License
(Others as Required by Project Manuals)

SUBCONTRACTOR LIST

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b of the Delaware Code, the following subcontractor listing must accompany any bid submittal. The bidder must list **in each category** the full name and address (City & State) of the sub-contractor that the bidder will be using to perform the work and provide material for that subcontractor category. Should the bidder's listed subcontractor intend to provide any of their subcontractor category of work through a third-tier contractor, the bidder shall list that third-tier contractor's full name and address (City & State). **If the bidder intends to perform any category of work itself, it must list its full name and address.** For clarification, if the bidder intends to perform the work themselves, the bidder **may not** insert "not applicable", "N/A", "self" or anything other than its own full name and address (City & State). To do so shall cause the bid to be rejected. In addition, the failure to produce a completed subcontractor list with the bid submittal shall cause the bid to be rejected. If you have more than three (3) third-tier contractors to report in any subcontractor category, print out additional page(s) containing the appropriate category, complete the rest of your list of third-tier contractors for that category, notate the addition in parentheses as (CONTINUATION) next to the subcontractor category and an asterisk (*) next to any additional third-tier contractors, and submit it with your bid.

<u>Subcontractor Category</u>	<u>Subcontractor</u>	<u>Address (City & State)</u>	<u>Subcontractors tax-payer ID # or Delaware Business license #</u>
1. <u>CFMF and Sheathing</u>			
2. <u>Metal Studs and Drywall</u>			
3. <u>ACT Ceilings</u>			
4. <u>Carpentry</u>			
5. _____			
6. <u>NO ADDITIONAL ENTRIES REQUIRED</u>			

NON-COLLUSION STATEMENT

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

All the terms and conditions of Contract: _____ have been thoroughly examined and are understood.

NAME OF BIDDER: _____

AUTHORIZED REPRESENTATIVE
(TYPED): _____

AUTHORIZED REPRESENTATIVE
(SIGNATURE): _____

TITLE: _____

ADDRESS OF BIDDER: _____

E-MAIL: _____

PHONE NUMBER: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

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

CONSENT OF SURETY

DATE _____

To: NCC Vocational Technical School District
1417 Newport Road
Wilmington, DE 19804

Gentlemen:

We, the _____

(Surety Company's Address)

a Surety Company authorized to do business in the State of Delaware hereby agrees that if

(Contractor)

(Address)

is awarded the Contract No. _____

We will write the required Performance and/or Labor and Material Bond required by Paragraph 9 of the Instructions to Bidders.

(Surety Company)

By _____
(Attorney-in-Fact)

AFFIDAVIT
OF
EMPLOYEE DRUG TESTING PROGRAM

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

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

Contractor/Subcontractor Name: _____

Contractor/Subcontractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

Sworn to and Subscribed before me this _____ day of _____ 20_____.

My Commission expires _____. NOTARY PUBLIC _____.

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

**AFFIDAVIT
OF
CONTRACTOR QUALIFICATIONS**

We hereby certify that we will abide by the contractor's qualifications outlined in the construction bid specifications for the duration of the contract term.

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b.3 of the Delaware Code, after a contract has been awarded the successful bidder shall not substitute another subcontractor whose name was submitted on the Subcontractor Form except for the reasons in the statute and not without written consent from the awarding agency. Failure to utilize the subcontractors on the list will subject the successful bidder to penalties as outlined in the General Requirements Section 5.2 of the contract.

Contractor Name: _____

Contractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

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

DBE SUBCONTRACTOR LIST

DBE Name	DBE Address	DBE Phone Number	DBE Email address	DelDOT or OSD Registration Number	DBE % of Contract	Description of Work

Total DBEs on project: _____

END OF SECTION

CONTRACT NO: E-07 - EXTERIOR METAL PANELS AND PRE_ENGINEERED BUILDINGS

BID FORM

For Bids Due: _____

To: NCCVT School District
1417 Newport Road
Wilmington, DE 19804

Name of Bidder: _____

Bidder Address: _____

Contact Name: _____ E-Mail Address: _____

Delaware Business License No.: _____ Taxpayer ID No.: _____

(Other License Nos.): _____

(A copy of Bidder's Licenses must be attached to this form.)

Phone No.: (____) _____ - _____ Fax No.: (____) _____ - _____

The undersigned, representing that he has read and understands the Bidding Documents and that this bid is made in accordance therewith, that he has visited the site and has familiarized himself with the local conditions under which the Work is to be performed, and that his bid is based upon the materials, systems and equipment described in the Bidding Documents without exception, hereby proposes and agrees to provide all labor, materials, plant, equipment, supplies, transport and other facilities required to execute the work described by the aforesaid documents for the lump sum itemized below:

\$ _____ (\$ _____)

ALTERNATES

Alternate prices conform to applicable project specification section. Refer to specifications for a complete description of the following Alternates. An "ADD" or "DEDUCT" amount is indicated by the crossed out part that does not apply.

Alternate No. 3: Provide Building E1 work associated with your contract scope.

Add/Deduct _____ (\$ _____)

Alternate No. 4: Provide Building E5 work associated with your contract scope.

Add/Deduct _____ (\$ _____)

CONTRACT E-07 - EXTERIOR METAL PANELS AND PRE_ENGINEERED BUILDINGS

BID FORM AND ATTACHMENTS

PU19, Revised 12/2022

004100-1

ALLOWANCES

We/I confirm that an Allowances in the amount of \$20,000 have been included in the Base Bid price listed above. This allowance is to be used at the Owner and Construction Manager's discretion. All remaining allowance shall be returned to the Owner at completion.

I/We acknowledge Addendums numbered _____ and the price(s) submitted include any cost/schedule impact they may have.

This bid shall remain valid and cannot be withdrawn for sixty (60) days from the date of opening of bids, and the undersigned shall abide by the Bid Security forfeiture provisions. Bid Security is attached to this Bid (if required).

The Owner shall have the right to reject any or all bids, and to waive any informality or irregularity in any bid received.

This bid is based upon work being accomplished by the Sub-Contractors named on the list attached to this bid.

Should I/We be awarded this contract, I/We pledge to achieve substantial completion of all the work within the durations included in the bid schedule provided and Section 013216 Const. Schedule.

The undersigned represents and warrants that he has complied and shall comply with all requirements of local, state, and national laws; that no legal requirement has been or shall be violated in making or accepting this bid, in awarding the contract to him or in the prosecution of the work required; that the bid is legal and firm; that he has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken action in restraint of free competitive bidding.

Upon receipt of written notice of the acceptance of this Bid, the Bidder shall, within twenty (20) calendar days, execute the agreement in the required form and deliver the Contract Bonds, and Insurance Certificates, required by the Contract Documents.

I am/We are an Individual/a Partnership/a Corporation

By _____ Trading as _____
(Individual's / General Partner's / Corporate Name)

(State of Corporation)

Business Address: _____

Witness: _____ By: _____
(SEAL) (Authorized Signature)

(Title)

Date: _____

ATTACHMENTS

Sub-Contractor List
Non-Collusion Statement
Bid Bond
Consent of Surety
Affidavit of Employee Drug Testing Program
Affidavit of Contractor Qualifications
DBE Subcontractor List
New Castle County Contractor License
(Others as Required by Project Manuals)

SUBCONTRACTOR LIST

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b of the Delaware Code, the following subcontractor listing must accompany any bid submittal. The bidder must list **in each category** the full name and address (City & State) of the sub-contractor that the bidder will be using to perform the work and provide material for that subcontractor category. Should the bidder's listed subcontractor intend to provide any of their subcontractor category of work through a third-tier contractor, the bidder shall list that third-tier contractor's full name and address (City & State). **If the bidder intends to perform any category of work itself, it must list its full name and address.** For clarification, if the bidder intends to perform the work themselves, the bidder **may not** insert "not applicable", "N/A", "self" or anything other than its own full name and address (City & State). To do so shall cause the bid to be rejected. In addition, the failure to produce a completed subcontractor list with the bid submittal shall cause the bid to be rejected. If you have more than three (3) third-tier contractors to report in any subcontractor category, print out additional page(s) containing the appropriate category, complete the rest of your list of third-tier contractors for that category, notate the addition in parentheses as (CONTINUATION) next to the subcontractor category and an asterisk (*) next to any additional third-tier contractors, and submit it with your bid.

<u>Subcontractor Category</u>	<u>Subcontractor</u>	<u>Address (City & State)</u>	<u>Subcontractors tax-payer ID # or Delaware Business license #</u>
1. <u>Door Frames and Hardware Install</u>			
2. <u>Carpentry</u>			
3. <u>Metal Panels</u>			
4. _____			
5. _____			
6. <u>NO ADDITIONAL ENTRIES REQUIRED</u>			

NON-COLLUSION STATEMENT

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

All the terms and conditions of Contract: _____ have been thoroughly examined and are understood.

NAME OF BIDDER: _____

AUTHORIZED REPRESENTATIVE
(TYPED): _____

AUTHORIZED REPRESENTATIVE
(SIGNATURE): _____

TITLE: _____

ADDRESS OF BIDDER: _____

E-MAIL: _____

PHONE NUMBER: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

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

CONSENT OF SURETY

DATE _____

To: NCC Vocational Technical School District
1417 Newport Road
Wilmington, DE 19804

Gentlemen:

We, the _____

(Surety Company's Address)

a Surety Company authorized to do business in the State of Delaware hereby agrees that if

(Contractor)

(Address)

is awarded the Contract No. _____

We will write the required Performance and/or Labor and Material Bond required by Paragraph 9 of the Instructions to Bidders.

(Surety Company)

By _____
(Attorney-in-Fact)

AFFIDAVIT
OF
EMPLOYEE DRUG TESTING PROGRAM

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

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

Contractor/Subcontractor Name: _____

Contractor/Subcontractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

Sworn to and Subscribed before me this _____ day of _____ 20_____.

My Commission expires _____. NOTARY PUBLIC _____.

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

**AFFIDAVIT
OF
CONTRACTOR QUALIFICATIONS**

We hereby certify that we will abide by the contractor's qualifications outlined in the construction bid specifications for the duration of the contract term.

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b.3 of the Delaware Code, after a contract has been awarded the successful bidder shall not substitute another subcontractor whose name was submitted on the Subcontractor Form except for the reasons in the statute and not without written consent from the awarding agency. Failure to utilize the subcontractors on the list will subject the successful bidder to penalties as outlined in the General Requirements Section 5.2 of the contract.

Contractor Name: _____

Contractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

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

DBE SUBCONTRACTOR LIST

DBE Name	DBE Address	DBE Phone Number	DBE Email address	DelDOT or OSD Registration Number	DBE % of Contract	Description of Work

Total DBEs on project: _____

END OF SECTION

CONTRACT NO: E-08 - ROOFING

BID FORM

For Bids Due: _____

To: NCCVT School District
1417 Newport Road
Wilmington, DE 19804

Name of Bidder: _____

Bidder Address: _____

Contact Name: _____ E-Mail Address: _____

Delaware Business License No.: _____ Taxpayer ID No.: _____

(Other License Nos.): _____

(A copy of Bidder's Licenses must be attached to this form.)

Phone No.: (____) _____ - _____ Fax No.: (____) _____ - _____

The undersigned, representing that he has read and understands the Bidding Documents and that this bid is made in accordance therewith, that he has visited the site and has familiarized himself with the local conditions under which the Work is to be performed, and that his bid is based upon the materials, systems and equipment described in the Bidding Documents without exception, hereby proposes and agrees to provide all labor, materials, plant, equipment, supplies, transport and other facilities required to execute the work described by the aforesaid documents for the lump sum itemized below:

\$ _____ (\$ _____)

ALTERNATES

Alternate prices conform to applicable project specification section. Refer to specifications for a complete description of the following Alternates. An "ADD" or "DEDUCT" amount is indicated by the crossed out part that does not apply.

Alternate No. 3: Provide Building E1 work associated with your contract scope.

Add/Deduct _____ (\$ _____)

Alternate No. 4: Provide Building E5 work associated with your contract scope.

Add/Deduct _____ (\$ _____)

ALLOWANCES

We/I confirm that an Allowances in the amount of \$20,000 have been included in the Base Bid price listed above. This allowance is to be used at the Owner and Construction Manager's discretion. All remaining allowance shall be returned to the Owner at completion.

I/We acknowledge Addendums numbered _____ and the price(s) submitted include any cost/schedule impact they may have.

This bid shall remain valid and cannot be withdrawn for sixty (60) days from the date of opening of bids, and the undersigned shall abide by the Bid Security forfeiture provisions. Bid Security is attached to this Bid (if required).

The Owner shall have the right to reject any or all bids, and to waive any informality or irregularity in any bid received.

This bid is based upon work being accomplished by the Sub-Contractors named on the list attached to this bid.

Should I/We be awarded this contract, I/We pledge to achieve substantial completion of all the work within the durations included in the bid schedule provided and Section 013216 Const. Schedule.

The undersigned represents and warrants that he has complied and shall comply with all requirements of local, state, and national laws; that no legal requirement has been or shall be violated in making or accepting this bid, in awarding the contract to him or in the prosecution of the work required; that the bid is legal and firm; that he has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken action in restraint of free competitive bidding.

Upon receipt of written notice of the acceptance of this Bid, the Bidder shall, within twenty (20) calendar days, execute the agreement in the required form and deliver the Contract Bonds, and Insurance Certificates, required by the Contract Documents.

I am/We are an Individual/a Partnership/a Corporation

By _____ Trading as _____
(Individual's / General Partner's / Corporate Name)

(State of Corporation)

Business Address: _____

Witness: _____ By: _____
(SEAL) (Authorized Signature)
(Title)
Date: _____

ATTACHMENTS

Sub-Contractor List
Non-Collusion Statement
Bid Bond
Consent of Surety
Affidavit of Employee Drug Testing Program
Affidavit of Contractor Qualifications
DBE Subcontractor List
New Castle County Contractor License
(Others as Required by Project Manuals)

SUBCONTRACTOR LIST

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b of the Delaware Code, the following subcontractor listing must accompany any bid submittal. The bidder must list **in each category** the full name and address (City & State) of the sub-contractor that the bidder will be using to perform the work and provide material for that subcontractor category. Should the bidder’s listed subcontractor intend to provide any of their subcontractor category of work through a third-tier contractor, the bidder shall list that third-tier contractor’s full name and address (City & State). **If the bidder intends to perform any category of work itself, it must list its full name and address.** For clarification, if the bidder intends to perform the work themselves, the bidder **may not** insert “not applicable”, “N/A”, “self” or anything other than its own full name and address (City & State). To do so shall cause the bid to be rejected. In addition, the failure to produce a completed subcontractor list with the bid submittal shall cause the bid to be rejected. If you have more than three (3) third-tier contractors to report in any subcontractor category, print out additional page(s) containing the appropriate category, complete the rest of your list of third-tier contractors for that category, notate the addition in parentheses as (CONTINUATION) next to the subcontractor category and an asterisk (*) next to any additional third-tier contractors, and submit it with your bid.

<u>Subcontractor Category</u>	<u>Subcontractor</u>	<u>Address (City & State)</u>	<u>Subcontractors tax-payer ID # or Delaware Business license #</u>
1. <u>Metal Panels</u>			
2. <u>Roofing</u>			
3. _____			
4. _____			
5. _____			
6. <u>NO ADDITIONAL ENTRIES REQUIRED</u>			

NON-COLLUSION STATEMENT

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

All the terms and conditions of Contract: _____ have been thoroughly examined and are understood.

NAME OF BIDDER: _____

AUTHORIZED REPRESENTATIVE
(TYPED): _____

AUTHORIZED REPRESENTATIVE
(SIGNATURE): _____

TITLE: _____

ADDRESS OF BIDDER: _____

E-MAIL: _____

PHONE NUMBER: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

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

CONSENT OF SURETY

DATE _____

To: NCC Vocational Technical School District
1417 Newport Road
Wilmington, DE 19804

Gentlemen:

We, the _____

(Surety Company's Address)

a Surety Company authorized to do business in the State of Delaware hereby agrees that if

(Contractor)

(Address)

is awarded the Contract No. _____

We will write the required Performance and/or Labor and Material Bond required by Paragraph 9 of the Instructions to Bidders.

(Surety Company)

By _____
(Attorney-in-Fact)

AFFIDAVIT
OF
EMPLOYEE DRUG TESTING PROGRAM

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

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

Contractor/Subcontractor Name: _____

Contractor/Subcontractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

Sworn to and Subscribed before me this _____ day of _____ 20_____.

My Commission expires _____. NOTARY PUBLIC _____.

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

**AFFIDAVIT
OF
CONTRACTOR QUALIFICATIONS**

We hereby certify that we will abide by the contractor's qualifications outlined in the construction bid specifications for the duration of the contract term.

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b.3 of the Delaware Code, after a contract has been awarded the successful bidder shall not substitute another subcontractor whose name was submitted on the Subcontractor Form except for the reasons in the statute and not without written consent from the awarding agency. Failure to utilize the subcontractors on the list will subject the successful bidder to penalties as outlined in the General Requirements Section 5.2 of the contract.

Contractor Name: _____

Contractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

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

DBE SUBCONTRACTOR LIST

DBE Name	DBE Address	DBE Phone Number	DBE Email address	DelDOT or OSD Registration Number	DBE % of Contract	Description of Work

Total DBEs on project: _____

END OF SECTION

CONTRACT NO: E-09 - HOLLOW METAL, WOOD DOORS, AND FINISH HARDWARE

BID FORM

For Bids Due: _____

To: NCCVT School District
1417 Newport Road
Wilmington, DE 19804

Name of Bidder: _____

Bidder Address: _____

Contact Name: _____ E-Mail Address: _____

Delaware Business License No.: _____ Taxpayer ID No.: _____

(Other License Nos.): _____

(A copy of Bidder's Licenses must be attached to this form.)

Phone No.: (____) _____ - _____ Fax No.: (____) _____ - _____

The undersigned, representing that he has read and understands the Bidding Documents and that this bid is made in accordance therewith, that he has visited the site and has familiarized himself with the local conditions under which the Work is to be performed, and that his bid is based upon the materials, systems and equipment described in the Bidding Documents without exception, hereby proposes and agrees to provide all labor, materials, plant, equipment, supplies, transport and other facilities required to execute the work described by the aforesaid documents for the lump sum itemized below:

\$ _____ (\$ _____)

ALTERNATES

Alternate prices conform to applicable project specification section. Refer to specifications for a complete description of the following Alternates. An "ADD" or "DEDUCT" amount is indicated by the crossed out part that does not apply.

Alternate No. 3: Provide Building E1 work associated with your contract scope.

Add/Deduct _____ (\$ _____)

Alternate No. 4: Provide Building E5 work associated with your contract scope.

Add/Deduct _____ (\$ _____)

I/We acknowledge Addendums numbered _____ and the price(s) submitted include any cost/schedule impact they may have.

This bid shall remain valid and cannot be withdrawn for sixty (60) days from the date of opening of bids, and the undersigned shall abide by the Bid Security forfeiture provisions. Bid Security is attached to this Bid (if required).

The Owner shall have the right to reject any or all bids, and to waive any informality or irregularity in any bid received.

This bid is based upon work being accomplished by the Sub-Contractors named on the list attached to this bid.

Should I/We be awarded this contract, I/We pledge to achieve substantial completion of all the work within the durations included in the bid schedule provided and Section 013216 Const. Schedule.

The undersigned represents and warrants that he has complied and shall comply with all requirements of local, state, and national laws; that no legal requirement has been or shall be violated in making or accepting this bid, in awarding the contract to him or in the prosecution of the work required; that the bid is legal and firm; that he has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken action in restraint of free competitive bidding.

Upon receipt of written notice of the acceptance of this Bid, the Bidder shall, within twenty (20) calendar days, execute the agreement in the required form and deliver the Contract Bonds, and Insurance Certificates, required by the Contract Documents.

I am/We are an Individual/a Partnership/a Corporation

By _____ Trading as _____
(Individual's / General Partner's / Corporate Name)

(State of Corporation)

Business Address: _____

Witness: _____ By: _____
(SEAL) (Authorized Signature)
(Title)

Date: _____

ATTACHMENTS

Sub-Contractor List
Non-Collusion Statement
Bid Bond
Consent of Surety
Affidavit of Employee Drug Testing Program
Affidavit of Contractor Qualifications
DBE Subcontractor List
New Castle County Contractor License
(Others as Required by Project Manuals)

SUBCONTRACTOR LIST

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b of the Delaware Code, the following subcontractor listing must accompany any bid submittal. The bidder must list **in each category** the full name and address (City & State) of the sub-contractor that the bidder will be using to perform the work and provide material for that subcontractor category. Should the bidder’s listed subcontractor intend to provide any of their subcontractor category of work through a third-tier contractor, the bidder shall list that third-tier contractor’s full name and address (City & State). **If the bidder intends to perform any category of work itself, it must list its full name and address.** For clarification, if the bidder intends to perform the work themselves, the bidder **may not** insert “not applicable”, “N/A”, “self” or anything other than its own full name and address (City & State). To do so shall cause the bid to be rejected. In addition, the failure to produce a completed subcontractor list with the bid submittal shall cause the bid to be rejected. If you have more than three (3) third-tier contractors to report in any subcontractor category, print out additional page(s) containing the appropriate category, complete the rest of your list of third-tier contractors for that category, notate the addition in parentheses as (CONTINUATION) next to the subcontractor category and an asterisk (*) next to any additional third-tier contractors, and submit it with your bid.

<u>Subcontractor Category</u>	<u>Subcontractor</u>	<u>Address (City & State)</u>	<u>Subcontractors tax-payer ID # or Delaware Business license #</u>
1. <u>Roofing</u>			
2. <u>Hollow Metal Doors</u>			
3. _____			
4. _____			
5. _____			
6. <u>NO ADDITIONAL ENTRIES REQUIRED</u>			

NON-COLLUSION STATEMENT

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

All the terms and conditions of Contract: _____ have been thoroughly examined and are understood.

NAME OF BIDDER: _____

AUTHORIZED REPRESENTATIVE
(TYPED): _____

AUTHORIZED REPRESENTATIVE
(SIGNATURE): _____

TITLE: _____

ADDRESS OF BIDDER: _____

E-MAIL: _____

PHONE NUMBER: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

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

CONSENT OF SURETY

DATE _____

To: NCC Vocational Technical School District
1417 Newport Road
Wilmington, DE 19804

Gentlemen:

We, the _____

(Surety Company's Address)

a Surety Company authorized to do business in the State of Delaware hereby agrees that if

(Contractor)

(Address)

is awarded the Contract No. _____

We will write the required Performance and/or Labor and Material Bond required by Paragraph 9 of the Instructions to Bidders.

(Surety Company)

By _____
(Attorney-in-Fact)

AFFIDAVIT
OF
EMPLOYEE DRUG TESTING PROGRAM

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

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

Contractor/Subcontractor Name: _____

Contractor/Subcontractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

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

**AFFIDAVIT
OF
CONTRACTOR QUALIFICATIONS**

We hereby certify that we will abide by the contractor's qualifications outlined in the construction bid specifications for the duration of the contract term.

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b.3 of the Delaware Code, after a contract has been awarded the successful bidder shall not substitute another subcontractor whose name was submitted on the Subcontractor Form except for the reasons in the statute and not without written consent from the awarding agency. Failure to utilize the subcontractors on the list will subject the successful bidder to penalties as outlined in the General Requirements Section 5.2 of the contract.

Contractor Name: _____

Contractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

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

My Commission expires _____. NOTARY PUBLIC _____.

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

DBE SUBCONTRACTOR LIST

DBE Name	DBE Address	DBE Phone Number	DBE Email address	DelDOT or OSD Registration Number	DBE % of Contract	Description of Work

Total DBEs on project: _____

END OF SECTION

CONTRACT NO: E-10- OVERHEAD COILING DOORS AND SHUTTERS

BID FORM

For Bids Due: _____

To: NCCVT School District
1417 Newport Road
Wilmington, DE 19804

Name of Bidder: _____

Bidder Address: _____

Contact Name: _____ E-Mail Address: _____

Delaware Business License No.: _____ Taxpayer ID No.: _____

(Other License Nos.): _____

(A copy of Bidder's Licenses must be attached to this form.)

Phone No.: (____) _____ - _____ Fax No.: (____) _____ - _____

The undersigned, representing that he has read and understands the Bidding Documents and that this bid is made in accordance therewith, that he has visited the site and has familiarized himself with the local conditions under which the Work is to be performed, and that his bid is based upon the materials, systems and equipment described in the Bidding Documents without exception, hereby proposes and agrees to provide all labor, materials, plant, equipment, supplies, transport and other facilities required to execute the work described by the aforesaid documents for the lump sum itemized below:

\$ _____ (\$ _____)

ALTERNATES

Alternate prices conform to applicable project specification section. Refer to specifications for a complete description of the following Alternates. An "ADD" or "DEDUCT" amount is indicated by the crossed out part that does not apply.

Alternate No. 3: Provide Building E1 work associated with your contract scope.

Add/Deduct _____ (\$ _____)

Alternate No. 4: Provide Building E5 work associated with your contract scope.

Add/Deduct _____ (\$ _____)

ALLOWANCES

We/I confirm that an Allowances in the amount of \$15,000 have been included in the Base Bid price listed above. This allowance is to be used at the Owner and Construction Manager's discretion. All remaining allowance shall be returned to the Owner at completion.

I/We acknowledge Addendums numbered _____ and the price(s) submitted include any cost/schedule impact they may have.

This bid shall remain valid and cannot be withdrawn for sixty (60) days from the date of opening of bids, and the undersigned shall abide by the Bid Security forfeiture provisions. Bid Security is attached to this Bid (if required).

The Owner shall have the right to reject any or all bids, and to waive any informality or irregularity in any bid received.

This bid is based upon work being accomplished by the Sub-Contractors named on the list attached to this bid.

Should I/We be awarded this contract, I/We pledge to achieve substantial completion of all the work within the durations included in the bid schedule provided and Section 013216 Const. Schedule.

The undersigned represents and warrants that he has complied and shall comply with all requirements of local, state, and national laws; that no legal requirement has been or shall be violated in making or accepting this bid, in awarding the contract to him or in the prosecution of the work required; that the bid is legal and firm; that he has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken action in restraint of free competitive bidding.

Upon receipt of written notice of the acceptance of this Bid, the Bidder shall, within twenty (20) calendar days, execute the agreement in the required form and deliver the Contract Bonds, and Insurance Certificates, required by the Contract Documents.

I am/We are an Individual/a Partnership/a Corporation

By _____ Trading as _____
(Individual's / General Partner's / Corporate Name)

(State of Corporation)

Business Address: _____

Witness: _____ By: _____
(SEAL) (Authorized Signature)
(Title)
Date: _____

ATTACHMENTS

Sub-Contractor List
Non-Collusion Statement
Bid Bond
Consent of Surety
Affidavit of Employee Drug Testing Program
Affidavit of Contractor Qualifications
DBE Subcontractor List
New Castle County Contractor License
(Others as Required by Project Manuals)

SUBCONTRACTOR LIST

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b of the Delaware Code, the following subcontractor listing must accompany any bid submittal. The bidder must list **in each category** the full name and address (City & State) of the sub-contractor that the bidder will be using to perform the work and provide material for that subcontractor category. Should the bidder’s listed subcontractor intend to provide any of their subcontractor category of work through a third-tier contractor, the bidder shall list that third-tier contractor’s full name and address (City & State). **If the bidder intends to perform any category of work itself, it must list its full name and address.** For clarification, if the bidder intends to perform the work themselves, the bidder **may not** insert “not applicable”, “N/A”, “self” or anything other than its own full name and address (City & State). To do so shall cause the bid to be rejected. In addition, the failure to produce a completed subcontractor list with the bid submittal shall cause the bid to be rejected. If you have more than three (3) third-tier contractors to report in any subcontractor category, print out additional page(s) containing the appropriate category, complete the rest of your list of third-tier contractors for that category, notate the addition in parentheses as (CONTINUATION) next to the subcontractor category and an asterisk (*) next to any additional third-tier contractors, and submit it with your bid.

<u>Subcontractor Category</u>	<u>Subcontractor</u>	<u>Address (City & State)</u>	<u>Subcontractors tax-payer ID # or Delaware Business license #</u>
1. <u>Joint Sealants</u>			
2. <u>Overhead Doors</u>			
3. _____			
4. _____			
5. _____			
6. <u>NO ADDITIONAL ENTRIES REQUIRED</u>			

NON-COLLUSION STATEMENT

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

All the terms and conditions of Contract: _____ have been thoroughly examined and are understood.

NAME OF BIDDER: _____

AUTHORIZED REPRESENTATIVE
(TYPED): _____

AUTHORIZED REPRESENTATIVE
(SIGNATURE): _____

TITLE: _____

ADDRESS OF BIDDER: _____

E-MAIL: _____

PHONE NUMBER: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

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

CONSENT OF SURETY

DATE _____

To: NCC Vocational Technical School District
1417 Newport Road
Wilmington, DE 19804

Gentlemen:

We, the _____

(Surety Company's Address)

a Surety Company authorized to do business in the State of Delaware hereby agrees that if

(Contractor)

(Address)

is awarded the Contract No. _____

We will write the required Performance and/or Labor and Material Bond required by Paragraph 9 of the Instructions to Bidders.

(Surety Company)

By _____
(Attorney-in-Fact)

AFFIDAVIT
OF
EMPLOYEE DRUG TESTING PROGRAM

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

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

Contractor/Subcontractor Name: _____

Contractor/Subcontractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

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

**AFFIDAVIT
OF
CONTRACTOR QUALIFICATIONS**

We hereby certify that we will abide by the contractor's qualifications outlined in the construction bid specifications for the duration of the contract term.

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b.3 of the Delaware Code, after a contract has been awarded the successful bidder shall not substitute another subcontractor whose name was submitted on the Subcontractor Form except for the reasons in the statute and not without written consent from the awarding agency. Failure to utilize the subcontractors on the list will subject the successful bidder to penalties as outlined in the General Requirements Section 5.2 of the contract.

Contractor Name: _____

Contractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

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

My Commission expires _____. NOTARY PUBLIC _____.

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

DBE SUBCONTRACTOR LIST

DBE Name	DBE Address	DBE Phone Number	DBE Email address	DelDOT or OSD Registration Number	DBE % of Contract	Description of Work

Total DBEs on project: _____

END OF SECTION

CONTRACT NO: E-11 - FLUID-APPLIED FLOORING

BID FORM

For Bids Due: _____

To: NCCVT School District
1417 Newport Road
Wilmington, DE 19804

Name of Bidder: _____

Bidder Address: _____

Contact Name: _____ E-Mail Address: _____

Delaware Business License No.: _____ Taxpayer ID No.: _____

(Other License Nos.): _____

(A copy of Bidder's Licenses must be attached to this form.)

Phone No.: (____) _____ - _____ Fax No.: (____) _____ - _____

The undersigned, representing that he has read and understands the Bidding Documents and that this bid is made in accordance therewith, that he has visited the site and has familiarized himself with the local conditions under which the Work is to be performed, and that his bid is based upon the materials, systems and equipment described in the Bidding Documents without exception, hereby proposes and agrees to provide all labor, materials, plant, equipment, supplies, transport and other facilities required to execute the work described by the aforesaid documents for the lump sum itemized below:

\$ _____ (\$ _____)

ALLOWANCES

We/I confirm that an Allowances in the amount of \$10,000.00 have been included in the Base Bid price listed above. This allowance is to be used at the Owner and Construction Manager's discretion. All remaining allowance shall be returned to the Owner at completion.

I/We acknowledge Addendums numbered _____ and the price(s) submitted include any cost/schedule impact they may have.

This bid shall remain valid and cannot be withdrawn for sixty (60) days from the date of opening of bids, and the undersigned shall abide by the Bid Security forfeiture provisions. Bid Security is attached to this Bid (if required).

The Owner shall have the right to reject any or all bids, and to waive any informality or irregularity in any bid received.

This bid is based upon work being accomplished by the Sub-Contractors named on the list attached to this bid.

Should I/We be awarded this contract, I/We pledge to achieve substantial completion of all the work within the durations included in the bid schedule provided and Section 013216 Const. Schedule.

The undersigned represents and warrants that he has complied and shall comply with all requirements of local, state, and national laws; that no legal requirement has been or shall be violated in making or accepting this bid, in awarding the contract to him or in the prosecution of the work required; that the bid is legal and firm; that he has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken action in restraint of free competitive bidding.

Upon receipt of written notice of the acceptance of this Bid, the Bidder shall, within twenty (20) calendar days, execute the agreement in the required form and deliver the Contract Bonds, and Insurance Certificates, required by the Contract Documents.

I am/We are an Individual/a Partnership/a Corporation

By _____ Trading as _____
(Individual's / General Partner's / Corporate Name)

(State of Corporation)

Business Address: _____

Witness: _____ By: _____
(SEAL) (Authorized Signature)

(Title)

Date: _____

ATTACHMENTS

Sub-Contractor List
Non-Collusion Statement
Bid Bond
Consent of Surety
Affidavit of Employee Drug Testing Program
Affidavit of Contractor Qualifications
DBE Subcontractor List
New Castle County Contractor License
(Others as Required by Project Manuals)

SUBCONTRACTOR LIST

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b of the Delaware Code, the following subcontractor listing must accompany any bid submittal. The bidder must list **in each category** the full name and address (City & State) of the sub-contractor that the bidder will be using to perform the work and provide material for that subcontractor category. Should the bidder's listed subcontractor intend to provide any of their subcontractor category of work through a third-tier contractor, the bidder shall list that third-tier contractor's full name and address (City & State). **If the bidder intends to perform any category of work itself, it must list its full name and address.** For clarification, if the bidder intends to perform the work themselves, the bidder **may not** insert "not applicable", "N/A", "self" or anything other than its own full name and address (City & State). To do so shall cause the bid to be rejected. In addition, the failure to produce a completed subcontractor list with the bid submittal shall cause the bid to be rejected. If you have more than three (3) third-tier contractors to report in any subcontractor category, print out additional page(s) containing the appropriate category, complete the rest of your list of third-tier contractors for that category, notate the addition in parentheses as (CONTINUATION) next to the subcontractor category and an asterisk (*) next to any additional third-tier contractors, and submit it with your bid.

<u>Subcontractor Category</u>	<u>Subcontractor</u>	<u>Address (City & State)</u>	<u>Subcontractors tax-payer ID # or Delaware Business license #</u>
1. <u>Doors, Frames and Hardware</u>			
2. <u>Fluid Applied Flooring</u>			
3. _____			
4. _____			
5. _____			
6. <u>NO ADDITIONAL ENTRIES REQUIRED</u>			

NON-COLLUSION STATEMENT

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

All the terms and conditions of Contract: _____ have been thoroughly examined and are understood.

NAME OF BIDDER: _____

AUTHORIZED REPRESENTATIVE
(TYPED): _____

AUTHORIZED REPRESENTATIVE
(SIGNATURE): _____

TITLE: _____

ADDRESS OF BIDDER: _____

E-MAIL: _____

PHONE NUMBER: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

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

CONSENT OF SURETY

DATE _____

To: NCC Vocational Technical School District
1417 Newport Road
Wilmington, DE 19804

Gentlemen:

We, the _____

(Surety Company's Address)

a Surety Company authorized to do business in the State of Delaware hereby agrees that if

(Contractor)

(Address)

is awarded the Contract No. _____

We will write the required Performance and/or Labor and Material Bond required by Paragraph 9 of the Instructions to Bidders.

(Surety Company)

By _____
(Attorney-in-Fact)

AFFIDAVIT
OF
EMPLOYEE DRUG TESTING PROGRAM

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

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

Contractor/Subcontractor Name: _____

Contractor/Subcontractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

Sworn to and Subscribed before me this _____ day of _____ 20_____.

My Commission expires _____. NOTARY PUBLIC _____.

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

**AFFIDAVIT
OF
CONTRACTOR QUALIFICATIONS**

We hereby certify that we will abide by the contractor's qualifications outlined in the construction bid specifications for the duration of the contract term.

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b.3 of the Delaware Code, after a contract has been awarded the successful bidder shall not substitute another subcontractor whose name was submitted on the Subcontractor Form except for the reasons in the statute and not without written consent from the awarding agency. Failure to utilize the subcontractors on the list will subject the successful bidder to penalties as outlined in the General Requirements Section 5.2 of the contract.

Contractor Name: _____

Contractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

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

My Commission expires _____. NOTARY PUBLIC _____.

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

DBE SUBCONTRACTOR LIST

DBE Name	DBE Address	DBE Phone Number	DBE Email address	DelDOT or OSD Registration Number	DBE % of Contract	Description of Work

Total DBEs on project: _____

END OF SECTION

CONTRACT NO: E-12 - PAINTING

BID FORM

For Bids Due: _____

To: NCCVT School District
1417 Newport Road
Wilmington, DE 19804

Name of Bidder: _____

Bidder Address: _____

Contact Name: _____ E-Mail Address: _____

Delaware Business License No.: _____ Taxpayer ID No.: _____

(Other License Nos.): _____

(A copy of Bidder's Licenses must be attached to this form.)

Phone No.: (____) _____ - _____ Fax No.: (____) _____ - _____

The undersigned, representing that he has read and understands the Bidding Documents and that this bid is made in accordance therewith, that he has visited the site and has familiarized himself with the local conditions under which the Work is to be performed, and that his bid is based upon the materials, systems and equipment described in the Bidding Documents without exception, hereby proposes and agrees to provide all labor, materials, plant, equipment, supplies, transport and other facilities required to execute the work described by the aforesaid documents for the lump sum itemized below:

\$ _____ (\$ _____)

ALTERNATES

Alternate prices conform to applicable project specification section. Refer to specifications for a complete description of the following Alternates. An "ADD" or "DEDUCT" amount is indicated by the crossed out part that does not apply.

Alternate No. 3: Provide Building E1 work associated with your contract scope.

Add/Deduct _____ (\$ _____)

Alternate No. 4: Provide Building E5 work associated with your contract scope.

Add/Deduct _____ (\$ _____)

I/We acknowledge Addendums numbered _____ and the price(s) submitted include any cost/schedule impact they may have.

This bid shall remain valid and cannot be withdrawn for sixty (60) days from the date of opening of bids, and the undersigned shall abide by the Bid Security forfeiture provisions. Bid Security is attached to this Bid (if required).

The Owner shall have the right to reject any or all bids, and to waive any informality or irregularity in any bid received.

This bid is based upon work being accomplished by the Sub-Contractors named on the list attached to this bid.

Should I/We be awarded this contract, I/We pledge to achieve substantial completion of all the work within the durations included in the bid schedule provided and Section 013216 Const. Schedule.

The undersigned represents and warrants that he has complied and shall comply with all requirements of local, state, and national laws; that no legal requirement has been or shall be violated in making or accepting this bid, in awarding the contract to him or in the prosecution of the work required; that the bid is legal and firm; that he has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken action in restraint of free competitive bidding.

Upon receipt of written notice of the acceptance of this Bid, the Bidder shall, within twenty (20) calendar days, execute the agreement in the required form and deliver the Contract Bonds, and Insurance Certificates, required by the Contract Documents.

I am/We are an Individual/a Partnership/a Corporation

By _____ Trading as _____
(Individual's / General Partner's / Corporate Name)

(State of Corporation)

Business Address: _____

Witness: _____ By: _____
(SEAL) (Authorized Signature)

(Title)

Date: _____

ATTACHMENTS

Sub-Contractor List
Non-Collusion Statement
Bid Bond
Consent of Surety
Affidavit of Employee Drug Testing Program
Affidavit of Contractor Qualifications
DBE Subcontractor List
New Castle County Contractor License
(Others as Required by Project Manuals)

SUBCONTRACTOR LIST

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b of the Delaware Code, the following subcontractor listing must accompany any bid submittal. The bidder must list **in each category** the full name and address (City & State) of the sub-contractor that the bidder will be using to perform the work and provide material for that subcontractor category. Should the bidder's listed subcontractor intend to provide any of their subcontractor category of work through a third-tier contractor, the bidder shall list that third-tier contractor's full name and address (City & State). **If the bidder intends to perform any category of work itself, it must list its full name and address.** For clarification, if the bidder intends to perform the work themselves, the bidder **may not** insert "not applicable", "N/A", "self" or anything other than its own full name and address (City & State). To do so shall cause the bid to be rejected. In addition, the failure to produce a completed subcontractor list with the bid submittal shall cause the bid to be rejected. If you have more than three (3) third-tier contractors to report in any subcontractor category, print out additional page(s) containing the appropriate category, complete the rest of your list of third-tier contractors for that category, notate the addition in parentheses as (CONTINUATION) next to the subcontractor category and an asterisk (*) next to any additional third-tier contractors, and submit it with your bid.

<u>Subcontractor Category</u>	<u>Subcontractor</u>	<u>Address (City & State)</u>	<u>Subcontractors tax-payer ID # or Delaware Business license #</u>
1. <u>Overhead Doors/Grills</u>			
2. <u>Painting</u>			
3. _____			
4. _____			
5. _____			
6. <u>NO ADDITIONAL ENTRIES REQUIRED</u>			

NON-COLLUSION STATEMENT

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

All the terms and conditions of Contract: _____ have been thoroughly examined and are understood.

NAME OF BIDDER: _____

AUTHORIZED REPRESENTATIVE
(TYPED): _____

AUTHORIZED REPRESENTATIVE
(SIGNATURE): _____

TITLE: _____

ADDRESS OF BIDDER: _____

E-MAIL: _____

PHONE NUMBER: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

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

CONSENT OF SURETY

DATE _____

To: NCC Vocational Technical School District
1417 Newport Road
Wilmington, DE 19804

Gentlemen:

We, the _____

(Surety Company's Address)

a Surety Company authorized to do business in the State of Delaware hereby agrees that if

(Contractor)

(Address)

is awarded the Contract No. _____

We will write the required Performance and/or Labor and Material Bond required by Paragraph 9 of the Instructions to Bidders.

(Surety Company)

By _____
(Attorney-in-Fact)

AFFIDAVIT
OF
EMPLOYEE DRUG TESTING PROGRAM

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

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

Contractor/Subcontractor Name: _____

Contractor/Subcontractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

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

**AFFIDAVIT
OF
CONTRACTOR QUALIFICATIONS**

We hereby certify that we will abide by the contractor's qualifications outlined in the construction bid specifications for the duration of the contract term.

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b.3 of the Delaware Code, after a contract has been awarded the successful bidder shall not substitute another subcontractor whose name was submitted on the Subcontractor Form except for the reasons in the statute and not without written consent from the awarding agency. Failure to utilize the subcontractors on the list will subject the successful bidder to penalties as outlined in the General Requirements Section 5.2 of the contract.

Contractor Name: _____

Contractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

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

My Commission expires _____. NOTARY PUBLIC _____.

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

DBE SUBCONTRACTOR LIST

DBE Name	DBE Address	DBE Phone Number	DBE Email address	DelDOT or OSD Registration Number	DBE % of Contract	Description of Work

Total DBEs on project: _____

END OF SECTION

CONTRACT NO: E-13 – BLEACHERS AND GRANDSTANDS

BID FORM

For Bids Due: _____

To: NCCVT School District
1417 Newport Road
Wilmington, DE 19804

Name of Bidder: _____

Bidder Address: _____

Contact Name: _____ E-Mail Address: _____

Delaware Business License No.: _____ Taxpayer ID No.: _____

(Other License Nos.): _____

(A copy of Bidder's Licenses must be attached to this form.)

Phone No.: (____) _____ - _____ Fax No.: (____) _____ - _____

The undersigned, representing that he has read and understands the Bidding Documents and that this bid is made in accordance therewith, that he has visited the site and has familiarized himself with the local conditions under which the Work is to be performed, and that his bid is based upon the materials, systems and equipment described in the Bidding Documents without exception, hereby proposes and agrees to provide all labor, materials, plant, equipment, supplies, transport and other facilities required to execute the work described by the aforesaid documents for the lump sum itemized below:

\$ _____ (\$ _____)

ALLOWANCES

We/I confirm that an Allowances in the amount of \$10,000.00 have been included in the Base Bid price listed above. This allowance is to be used at the Owner and Construction Manager's discretion. All remaining allowance shall be returned to the Owner at completion.

I/We acknowledge Addendums numbered _____ and the price(s) submitted include any cost/schedule impact they may have.

This bid shall remain valid and cannot be withdrawn for sixty (60) days from the date of opening of bids, and the undersigned shall abide by the Bid Security forfeiture provisions. Bid Security is attached to this Bid (if required).

The Owner shall have the right to reject any or all bids, and to waive any informality or irregularity in any bid received.

This bid is based upon work being accomplished by the Sub-Contractors named on the list attached to this bid.

Should I/We be awarded this contract, I/We pledge to achieve substantial completion of all the work within the durations included in the bid schedule provided and Section 013216 Const. Schedule.

The undersigned represents and warrants that he has complied and shall comply with all requirements of local, state, and national laws; that no legal requirement has been or shall be violated in making or accepting this bid, in awarding the contract to him or in the prosecution of the work required; that the bid is legal and firm; that he has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken action in restraint of free competitive bidding.

Upon receipt of written notice of the acceptance of this Bid, the Bidder shall, within twenty (20) calendar days, execute the agreement in the required form and deliver the Contract Bonds, and Insurance Certificates, required by the Contract Documents.

I am/We are an Individual/a Partnership/a Corporation

By _____ Trading as _____
(Individual's / General Partner's / Corporate Name)

(State of Corporation)

Business Address: _____

Witness: _____ By: _____
(SEAL) (Authorized Signature)

(Title)

Date: _____

ATTACHMENTS

Sub-Contractor List
Non-Collusion Statement
Bid Bond
Consent of Surety
Affidavit of Employee Drug Testing Program
Affidavit of Contractor Qualifications
DBE Subcontractor List
New Castle County Contractor License
(Others as Required by Project Manuals)

SUBCONTRACTOR LIST

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b of the Delaware Code, the following subcontractor listing must accompany any bid submittal. The bidder must list **in each category** the full name and address (City & State) of the sub-contractor that the bidder will be using to perform the work and provide material for that subcontractor category. Should the bidder's listed subcontractor intend to provide any of their subcontractor category of work through a third-tier contractor, the bidder shall list that third-tier contractor's full name and address (City & State). **If the bidder intends to perform any category of work itself, it must list its full name and address.** For clarification, if the bidder intends to perform the work themselves, the bidder **may not** insert "not applicable", "N/A", "self" or anything other than its own full name and address (City & State). To do so shall cause the bid to be rejected. In addition, the failure to produce a completed subcontractor list with the bid submittal shall cause the bid to be rejected. If you have more than three (3) third-tier contractors to report in any subcontractor category, print out additional page(s) containing the appropriate category, complete the rest of your list of third-tier contractors for that category, notate the addition in parentheses as (CONTINUATION) next to the subcontractor category and an asterisk (*) next to any additional third-tier contractors, and submit it with your bid.

<u>Subcontractor Category</u>	<u>Subcontractor</u>	<u>Address (City & State)</u>	<u>Subcontractors tax-payer ID # or Delaware Business license #</u>
1. <u>Storefronts and Glazing</u>			
2. <u>Bleachers and Grandstands</u>			
3. _____			
4. _____			
5. _____			
6. <u>NO ADDITIONAL ENTRIES REQUIRED</u>			

NON-COLLUSION STATEMENT

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

All the terms and conditions of Contract: _____ have been thoroughly examined and are understood.

NAME OF BIDDER: _____

AUTHORIZED REPRESENTATIVE
(TYPED): _____

AUTHORIZED REPRESENTATIVE
(SIGNATURE): _____

TITLE: _____

ADDRESS OF BIDDER: _____

E-MAIL: _____

PHONE NUMBER: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

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

CONSENT OF SURETY

DATE _____

To: NCC Vocational Technical School District
1417 Newport Road
Wilmington, DE 19804

Gentlemen:

We, the _____

(Surety Company's Address)

a Surety Company authorized to do business in the State of Delaware hereby agrees that if

(Contractor)

(Address)

is awarded the Contract No. _____

We will write the required Performance and/or Labor and Material Bond required by Paragraph 9 of the Instructions to Bidders.

(Surety Company)

By _____
(Attorney-in-Fact)

AFFIDAVIT
OF
EMPLOYEE DRUG TESTING PROGRAM

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

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

Contractor/Subcontractor Name: _____

Contractor/Subcontractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

Sworn to and Subscribed before me this _____ day of _____ 20_____.

My Commission expires _____. NOTARY PUBLIC _____.

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

**AFFIDAVIT
OF
CONTRACTOR QUALIFICATIONS**

We hereby certify that we will abide by the contractor's qualifications outlined in the construction bid specifications for the duration of the contract term.

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b.3 of the Delaware Code, after a contract has been awarded the successful bidder shall not substitute another subcontractor whose name was submitted on the Subcontractor Form except for the reasons in the statute and not without written consent from the awarding agency. Failure to utilize the subcontractors on the list will subject the successful bidder to penalties as outlined in the General Requirements Section 5.2 of the contract.

Contractor Name: _____

Contractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

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

My Commission expires _____. NOTARY PUBLIC _____.

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

DBE SUBCONTRACTOR LIST

DBE Name	DBE Address	DBE Phone Number	DBE Email address	DelDOT or OSD Registration Number	DBE % of Contract	Description of Work

Total DBEs on project: _____

END OF SECTION

CONTRACT NO: E-14 – FIRE PROTECTION

BID FORM

For Bids Due: _____

To: NCCVT School District
1417 Newport Road
Wilmington, DE 19804

Name of Bidder: _____

Bidder Address: _____

Contact Name: _____ E-Mail Address: _____

Delaware Business License No.: _____ Taxpayer ID No.: _____

(Other License Nos.): _____

(A copy of Bidder's Licenses must be attached to this form.)

Phone No.: (____) _____ - _____ Fax No.: (____) _____ - _____

The undersigned, representing that he has read and understands the Bidding Documents and that this bid is made in accordance therewith, that he has visited the site and has familiarized himself with the local conditions under which the Work is to be performed, and that his bid is based upon the materials, systems and equipment described in the Bidding Documents without exception, hereby proposes and agrees to provide all labor, materials, plant, equipment, supplies, transport and other facilities required to execute the work described by the aforesaid documents for the lump sum itemized below:

\$ _____ (\$ _____)

ALLOWANCES

We/I confirm that an Allowances in the amount of \$10,000.00 have been included in the Base Bid price listed above. This allowance is to be used at the Owner and Construction Manager's discretion. All remaining allowance shall be returned to the Owner at completion.

I/We acknowledge Addendums numbered _____ and the price(s) submitted include any cost/schedule impact they may have.

This bid shall remain valid and cannot be withdrawn for sixty (60) days from the date of opening of bids, and the undersigned shall abide by the Bid Security forfeiture provisions. Bid Security is attached to this Bid (if required).

The Owner shall have the right to reject any or all bids, and to waive any informality or irregularity in any bid received.

This bid is based upon work being accomplished by the Sub-Contractors named on the list attached to this bid.

Should I/We be awarded this contract, I/We pledge to achieve substantial completion of all the work within the durations included in the bid schedule provided and Section 013216 Const. Schedule.

The undersigned represents and warrants that he has complied and shall comply with all requirements of local, state, and national laws; that no legal requirement has been or shall be violated in making or accepting this bid, in awarding the contract to him or in the prosecution of the work required; that the bid is legal and firm; that he has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken action in restraint of free competitive bidding.

Upon receipt of written notice of the acceptance of this Bid, the Bidder shall, within twenty (20) calendar days, execute the agreement in the required form and deliver the Contract Bonds, and Insurance Certificates, required by the Contract Documents.

I am/We are an Individual/a Partnership/a Corporation

By _____ Trading as _____
(Individual's / General Partner's / Corporate Name)

(State of Corporation)

Business Address: _____

Witness: _____ By: _____
(SEAL) (Authorized Signature)

(Title)

Date: _____

ATTACHMENTS

Sub-Contractor List
Non-Collusion Statement
Bid Bond
Consent of Surety
Affidavit of Employee Drug Testing Program
Affidavit of Contractor Qualifications
DBE Subcontractor List
New Castle County Contractor License
(Others as Required by Project Manuals)

SUBCONTRACTOR LIST

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b of the Delaware Code, the following subcontractor listing must accompany any bid submittal. The bidder must list **in each category** the full name and address (City & State) of the sub-contractor that the bidder will be using to perform the work and provide material for that subcontractor category. Should the bidder’s listed subcontractor intend to provide any of their subcontractor category of work through a third-tier contractor, the bidder shall list that third-tier contractor’s full name and address (City & State). **If the bidder intends to perform any category of work itself, it must list its full name and address.** For clarification, if the bidder intends to perform the work themselves, the bidder **may not** insert “not applicable”, “N/A”, “self” or anything other than its own full name and address (City & State). To do so shall cause the bid to be rejected. In addition, the failure to produce a completed subcontractor list with the bid submittal shall cause the bid to be rejected. If you have more than three (3) third-tier contractors to report in any subcontractor category, print out additional page(s) containing the appropriate category, complete the rest of your list of third-tier contractors for that category, notate the addition in parentheses as (CONTINUATION) next to the subcontractor category and an asterisk (*) next to any additional third-tier contractors, and submit it with your bid.

<u>Subcontractor Category</u>	<u>Subcontractor</u>	<u>Address (City & State)</u>	<u>Subcontractors tax-payer ID # or Delaware Business license #</u>
1. <u>Flooring</u>			
2. <u>Fire Protection</u>			
3. _____			
4. _____			
5. _____			
6. <u>NO ADDITIONAL ENTRIES REQUIRED</u>			

NON-COLLUSION STATEMENT

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

All the terms and conditions of Contract: _____ have been thoroughly examined and are understood.

NAME OF BIDDER: _____

AUTHORIZED REPRESENTATIVE
(TYPED): _____

AUTHORIZED REPRESENTATIVE
(SIGNATURE): _____

TITLE: _____

ADDRESS OF BIDDER: _____

E-MAIL: _____

PHONE NUMBER: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

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

CONSENT OF SURETY

DATE _____

To: NCC Vocational Technical School District
1417 Newport Road
Wilmington, DE 19804

Gentlemen:

We, the _____

(Surety Company's Address)

a Surety Company authorized to do business in the State of Delaware hereby agrees that if

(Contractor)

(Address)

is awarded the Contract No. _____

We will write the required Performance and/or Labor and Material Bond required by Paragraph 9 of the Instructions to Bidders.

(Surety Company)

By _____
(Attorney-in-Fact)

AFFIDAVIT
OF
EMPLOYEE DRUG TESTING PROGRAM

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

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

Contractor/Subcontractor Name: _____

Contractor/Subcontractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

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

**AFFIDAVIT
OF
CONTRACTOR QUALIFICATIONS**

We hereby certify that we will abide by the contractor's qualifications outlined in the construction bid specifications for the duration of the contract term.

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b.3 of the Delaware Code, after a contract has been awarded the successful bidder shall not substitute another subcontractor whose name was submitted on the Subcontractor Form except for the reasons in the statute and not without written consent from the awarding agency. Failure to utilize the subcontractors on the list will subject the successful bidder to penalties as outlined in the General Requirements Section 5.2 of the contract.

Contractor Name: _____

Contractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

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

My Commission expires _____. NOTARY PUBLIC _____.

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

DBE SUBCONTRACTOR LIST

DBE Name	DBE Address	DBE Phone Number	DBE Email address	DelDOT or OSD Registration Number	DBE % of Contract	Description of Work

Total DBEs on project: _____

END OF SECTION

CONTRACT NO: E-15- PLUMBING, HVAC, AND CONTROLS

BID FORM

For Bids Due: _____

To: NCCVT School District
1417 Newport Road
Wilmington, DE 19804

Name of Bidder: _____

Bidder Address: _____

Contact Name: _____ E-Mail Address: _____

Delaware Business License No.: _____ Taxpayer ID No.: _____

(Other License Nos.): _____

(A copy of Bidder's Licenses must be attached to this form.)

Phone No.: (____) _____ - _____ Fax No.: (____) _____ - _____

The undersigned, representing that he has read and understands the Bidding Documents and that this bid is made in accordance therewith, that he has visited the site and has familiarized himself with the local conditions under which the Work is to be performed, and that his bid is based upon the materials, systems and equipment described in the Bidding Documents without exception, hereby proposes and agrees to provide all labor, materials, plant, equipment, supplies, transport and other facilities required to execute the work described by the aforesaid documents for the lump sum itemized below:

\$ _____ (\$ _____)

ALTERNATES

Alternate prices conform to applicable project specification section. Refer to specifications for a complete description of the following Alternates. An "ADD" or "DEDUCT" amount is indicated by the crossed out part that does not apply.

Alternate No. 3: Provide Building E1 work associated with your contract scope.

Add/Deduct _____ (\$ _____)

Alternate No. 4: Provide Building E5 work associated with your contract scope.

Add/Deduct _____ (\$ _____)

Alternate No. 5: Mechanical Preferred Vendors

Add/Deduct _____ (\$ _____)

Alternate No. 6: Plumbing Preferred Vendors.

Add/Deduct _____ (\$ _____)

ALLOWANCES

We/I confirm that an Allowances in the amount of \$30,000.00 have been included in the Base Bid price listed above. This allowance is to be used at the Owner and Construction Manager's discretion. All remaining allowance shall be returned to the Owner at completion.

I/We acknowledge Addendums numbered _____ and the price(s) submitted include any cost/schedule impact they may have.

This bid shall remain valid and cannot be withdrawn for sixty (60) days from the date of opening of bids, and the undersigned shall abide by the Bid Security forfeiture provisions. Bid Security is attached to this Bid (if required).

The Owner shall have the right to reject any or all bids, and to waive any informality or irregularity in any bid received.

This bid is based upon work being accomplished by the Sub-Contractors named on the list attached to this bid.

Should I/We be awarded this contract, I/We pledge to achieve substantial completion of all the work within the durations included in the bid schedule provided and Section 013216 Const. Schedule.

The undersigned represents and warrants that he has complied and shall comply with all requirements of local, state, and national laws; that no legal requirement has been or shall be violated in making or accepting this bid, in awarding the contract to him or in the prosecution of the work required; that the bid is legal and firm; that he has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken action in restraint of free competitive bidding.

Upon receipt of written notice of the acceptance of this Bid, the Bidder shall, within twenty (20) calendar days, execute the agreement in the required form and deliver the Contract Bonds, and Insurance Certificates, required by the Contract Documents.

I am/We are an Individual/a Partnership/a Corporation

By _____ Trading as _____
(Individual's / General Partner's / Corporate Name)

(State of Corporation)

Business Address:

Witness: _____ By: _____

(Authorized Signature)

(SEAL)

(Title)

Date: _____

ATTACHMENTS

Sub-Contractor List

Non-Collusion Statement

Bid Bond

Consent of Surety

Affidavit of Employee Drug Testing Program

Affidavit of Contractor Qualifications

DBE Subcontractor List

New Castle County Contractor License

(Others as Required by Project Manuals)

SUBCONTRACTOR LIST

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b of the Delaware Code, the following subcontractor listing must accompany any bid submittal. The bidder must list **in each category** the full name and address (City & State) of the sub-contractor that the bidder will be using to perform the work and provide material for that subcontractor category. Should the bidder's listed subcontractor intend to provide any of their subcontractor category of work through a third-tier contractor, the bidder shall list that third-tier contractor's full name and address (City & State). **If the bidder intends to perform any category of work itself, it must list its full name and address.** For clarification, if the bidder intends to perform the work themselves, the bidder **may not** insert "not applicable", "N/A", "self" or anything other than its own full name and address (City & State). To do so shall cause the bid to be rejected. In addition, the failure to produce a completed subcontractor list with the bid submittal shall cause the bid to be rejected. If you have more than three (3) third-tier contractors to report in any subcontractor category, print out additional page(s) containing the appropriate category, complete the rest of your list of third-tier contractors for that category, notate the addition in parentheses as (CONTINUATION) next to the subcontractor category and an asterisk (*) next to any additional third-tier contractors, and submit it with your bid.

<u>Subcontractor Category</u>	<u>Subcontractor</u>	<u>Address (City & State)</u>	<u>Subcontractors tax-payer ID # or Delaware Business license #</u>
1. <u>Fluid Applied Flooring</u>			
2. <u>Plumbing</u>			
3. <u>HVAC</u>			
4. <u>Controls</u>			
5. _____			
6. <u>NO ADDITIONAL ENTRIES REQUIRED</u>			

NON-COLLUSION STATEMENT

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

All the terms and conditions of Contract: _____ have been thoroughly examined and are understood.

NAME OF BIDDER: _____

AUTHORIZED REPRESENTATIVE
(TYPED): _____

AUTHORIZED REPRESENTATIVE
(SIGNATURE): _____

TITLE: _____

ADDRESS OF BIDDER: _____

E-MAIL: _____

PHONE NUMBER: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

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

CONSENT OF SURETY

DATE _____

To: NCC Vocational Technical School District
1417 Newport Road
Wilmington, DE 19804

Gentlemen:

We, the _____

(Surety Company's Address)

a Surety Company authorized to do business in the State of Delaware hereby agrees that if

(Contractor)

(Address)

is awarded the Contract No. _____

We will write the required Performance and/or Labor and Material Bond required by Paragraph 9 of the Instructions to Bidders.

(Surety Company)

By _____
(Attorney-in-Fact)

AFFIDAVIT
OF
EMPLOYEE DRUG TESTING PROGRAM

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

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

Contractor/Subcontractor Name: _____

Contractor/Subcontractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

Sworn to and Subscribed before me this _____ day of _____ 20_____.

My Commission expires _____. NOTARY PUBLIC _____.

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

**AFFIDAVIT
OF
CONTRACTOR QUALIFICATIONS**

We hereby certify that we will abide by the contractor's qualifications outlined in the construction bid specifications for the duration of the contract term.

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b.3 of the Delaware Code, after a contract has been awarded the successful bidder shall not substitute another subcontractor whose name was submitted on the Subcontractor Form except for the reasons in the statute and not without written consent from the awarding agency. Failure to utilize the subcontractors on the list will subject the successful bidder to penalties as outlined in the General Requirements Section 5.2 of the contract.

Contractor Name: _____

Contractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

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

My Commission expires _____. NOTARY PUBLIC _____.

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

DBE SUBCONTRACTOR LIST

DBE Name	DBE Address	DBE Phone Number	DBE Email address	DelDOT or OSD Registration Number	DBE % of Contract	Description of Work

Total DBEs on project: _____

END OF SECTION

CONTRACT NO: E-16 - ELECTRICAL, LIGHTING, AND FIRE ALARM SYSTEMS

BID FORM

For Bids Due: _____

To: NCCVT School District
1417 Newport Road
Wilmington, DE 19804

Name of Bidder: _____

Bidder Address: _____

Contact Name: _____ E-Mail Address: _____

Delaware Business License No.: _____ Taxpayer ID No.: _____

(Other License Nos.): _____

(A copy of Bidder's Licenses must be attached to this form.)

Phone No.: (____) _____ - _____ Fax No.: (____) _____ - _____

The undersigned, representing that he has read and understands the Bidding Documents and that this bid is made in accordance therewith, that he has visited the site and has familiarized himself with the local conditions under which the Work is to be performed, and that his bid is based upon the materials, systems and equipment described in the Bidding Documents without exception, hereby proposes and agrees to provide all labor, materials, plant, equipment, supplies, transport and other facilities required to execute the work described by the aforesaid documents for the lump sum itemized below:

\$ _____ (\$ _____)

ALTERNATES

Alternate prices conform to applicable project specification section. Refer to specifications for a complete description of the following Alternates. An "ADD" or "DEDUCT" amount is indicated by the crossed out part that does not apply.

Alternate No. 1: Add stadium lighting at main stadium and field.

Add/Deduct _____ (\$ _____)

Alternate No. 2: Add field lighting to existing practice turf field.

Add/Deduct _____ (\$ _____)

Alternate No. 3: Provide Building E1 work associated with your contract scope.

Add/Deduct _____ (\$_____)

Alternate No. 4: Provide Building E5 work associated with your contract scope.

Add/Deduct _____ (\$_____)

Alternate No. 7 - Electrical Preferred Vendors.

Add/Deduct _____ (\$_____)

Alternate No. 8 - Audio system basis of design to be audio system mounted on the press box.

Add/Deduct _____ (\$_____)

ALLOWANCES

We/I confirm that an Allowances in the amount of \$25,000.00 have been included in the Base Bid price listed above. This allowance is to be used at the Owner and Construction Manager's discretion. All remaining allowance shall be returned to the Owner at completion.

I/We acknowledge Addendums numbered _____ and the price(s) submitted include any cost/schedule impact they may have.

This bid shall remain valid and cannot be withdrawn for sixty (60) days from the date of opening of bids, and the undersigned shall abide by the Bid Security forfeiture provisions. Bid Security is attached to this Bid (if required).

The Owner shall have the right to reject any or all bids, and to waive any informality or irregularity in any bid received.

This bid is based upon work being accomplished by the Sub-Contractors named on the list attached to this bid.

Should I/We be awarded this contract, I/We pledge to achieve substantial completion of all the work within the durations included in the bid schedule provided and Section 013216 Const. Schedule.

The undersigned represents and warrants that he has complied and shall comply with all requirements of local, state, and national laws; that no legal requirement has been or shall be violated in making or accepting this bid, in awarding the contract to him or in the prosecution of the work required; that the bid is legal and firm; that he has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken action in restraint of free competitive bidding.

Upon receipt of written notice of the acceptance of this Bid, the Bidder shall, within twenty (20) calendar days, execute the agreement in the required form and deliver the Contract Bonds, and Insurance Certificates, required by the Contract Documents.

I am/We are an Individual/a Partnership/a Corporation

By _____ Trading as _____
(Individual's / General Partner's / Corporate Name)

(State of Corporation)

Business Address: _____

Witness: _____ By: _____
(SEAL) (Authorized Signature)

(Title)

Date: _____

ATTACHMENTS

Sub-Contractor List
Non-Collusion Statement
Bid Bond
Consent of Surety
Affidavit of Employee Drug Testing Program
Affidavit of Contractor Qualifications
DBE Subcontractor List
New Castle County Contractor License
(Others as Required by Project Manuals)

SUBCONTRACTOR LIST

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b of the Delaware Code, the following subcontractor listing must accompany any bid submittal. The bidder must list **in each category** the full name and address (City & State) of the sub-contractor that the bidder will be using to perform the work and provide material for that subcontractor category. Should the bidder’s listed subcontractor intend to provide any of their subcontractor category of work through a third-tier contractor, the bidder shall list that third-tier contractor’s full name and address (City & State). **If the bidder intends to perform any category of work itself, it must list its full name and address.** For clarification, if the bidder intends to perform the work themselves, the bidder **may not** insert “not applicable”, “N/A”, “self” or anything other than its own full name and address (City & State). To do so shall cause the bid to be rejected. In addition, the failure to produce a completed subcontractor list with the bid submittal shall cause the bid to be rejected. If you have more than three (3) third-tier contractors to report in any subcontractor category, print out additional page(s) containing the appropriate category, complete the rest of your list of third-tier contractors for that category, notate the addition in parentheses as (CONTINUATION) next to the subcontractor category and an asterisk (*) next to any additional third-tier contractors, and submit it with your bid.

<u>Subcontractor Category</u>	<u>Subcontractor</u>	<u>Address (City & State)</u>	<u>Subcontractors tax-payer ID # or Delaware Business license #</u>
1. <u>Painting</u>			
2. <u>Lighting</u>			
3. <u>Fire Alarm</u>			
4. _____			
5. _____			
6. <u>NO ADDITIONAL ENTRIES REQUIRED</u>			

NON-COLLUSION STATEMENT

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

All the terms and conditions of Contract: _____ have been thoroughly examined and are understood.

NAME OF BIDDER: _____

AUTHORIZED REPRESENTATIVE
(TYPED): _____

AUTHORIZED REPRESENTATIVE
(SIGNATURE): _____

TITLE: _____

ADDRESS OF BIDDER: _____

E-MAIL: _____

PHONE NUMBER: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

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

CONSENT OF SURETY

DATE _____

To: NCC Vocational Technical School District
1417 Newport Road
Wilmington, DE 19804

Gentlemen:

We, the _____

(Surety Company's Address)

a Surety Company authorized to do business in the State of Delaware hereby agrees that if

(Contractor)

(Address)

is awarded the Contract No. _____

We will write the required Performance and/or Labor and Material Bond required by Paragraph 9 of the Instructions to Bidders.

(Surety Company)

By _____
(Attorney-in-Fact)

AFFIDAVIT
OF
EMPLOYEE DRUG TESTING PROGRAM

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

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

Contractor/Subcontractor Name: _____

Contractor/Subcontractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

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

**AFFIDAVIT
OF
CONTRACTOR QUALIFICATIONS**

We hereby certify that we will abide by the contractor's qualifications outlined in the construction bid specifications for the duration of the contract term.

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b.3 of the Delaware Code, after a contract has been awarded the successful bidder shall not substitute another subcontractor whose name was submitted on the Subcontractor Form except for the reasons in the statute and not without written consent from the awarding agency. Failure to utilize the subcontractors on the list will subject the successful bidder to penalties as outlined in the General Requirements Section 5.2 of the contract.

Contractor Name: _____

Contractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

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

My Commission expires _____. NOTARY PUBLIC _____.

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

DBE SUBCONTRACTOR LIST

DBE Name	DBE Address	DBE Phone Number	DBE Email address	DelDOT or OSD Registration Number	DBE % of Contract	Description of Work

Total DBEs on project: _____

END OF SECTION

CONTRACT NO: E-17 – SPECIAL SYSTEMS

BID FORM

For Bids Due: _____

To: NCCVT School District
1417 Newport Road
Wilmington, DE 19804

Name of Bidder: _____

Bidder Address: _____

Contact Name: _____ E-Mail Address: _____

Delaware Business License No.: _____ Taxpayer ID No.: _____

(Other License Nos.): _____

(A copy of Bidder's Licenses must be attached to this form.)

Phone No.: (____) _____ - _____ Fax No.: (____) _____ - _____

The undersigned, representing that he has read and understands the Bidding Documents and that this bid is made in accordance therewith, that he has visited the site and has familiarized himself with the local conditions under which the Work is to be performed, and that his bid is based upon the materials, systems and equipment described in the Bidding Documents without exception, hereby proposes and agrees to provide all labor, materials, plant, equipment, supplies, transport and other facilities required to execute the work described by the aforesaid documents for the lump sum itemized below:

\$ _____ (\$ _____)

ALTERNATES

Alternate prices conform to applicable project specification section. Refer to specifications for a complete description of the following Alternates. An "ADD" or "DEDUCT" amount is indicated by the crossed out part that does not apply.

Alternate No. 1: Add stadium lighting at main stadium and field.

Add/Deduct _____ (\$ _____)

Alternate No. 2: Add field lighting to existing practice turf field.

Add/Deduct _____ (\$ _____)

Alternate No. 3: Provide Building E1 work associated with your contract scope.

Add/Deduct _____ (\$ _____)

Alternate No. 4: Provide Building E5 work associated with your contract scope.

Add/Deduct _____ (\$ _____)

Alternate No. 8 - Audio system basis of design to be audio system mounted on the press box.

Add/Deduct _____ (\$ _____)

ALLOWANCES

We/I confirm that an Allowances in the amount of \$20,000.00 have been included in the Base Bid price listed above. This allowance is to be used at the Owner and Construction Manager's discretion. All remaining allowance shall be returned to the Owner at completion.

I/We acknowledge Addendums numbered _____ and the price(s) submitted include any cost/schedule impact they may have.

This bid shall remain valid and cannot be withdrawn for sixty (60) days from the date of opening of bids, and the undersigned shall abide by the Bid Security forfeiture provisions. Bid Security is attached to this Bid (if required).

The Owner shall have the right to reject any or all bids, and to waive any informality or irregularity in any bid received.

This bid is based upon work being accomplished by the Sub-Contractors named on the list attached to this bid.

Should I/We be awarded this contract, I/We pledge to achieve substantial completion of all the work within the durations included in the bid schedule provided and Section 013216 Const. Schedule.

The undersigned represents and warrants that he has complied and shall comply with all requirements of local, state, and national laws; that no legal requirement has been or shall be violated in making or accepting this bid, in awarding the contract to him or in the prosecution of the work required; that the bid is legal and firm; that he has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken action in restraint of free competitive bidding.

Upon receipt of written notice of the acceptance of this Bid, the Bidder shall, within twenty (20) calendar days, execute the agreement in the required form and deliver the Contract Bonds, and Insurance Certificates, required by the Contract Documents.

I am/We are an Individual/a Partnership/a Corporation

By _____ Trading as _____
(Individual's / General Partner's / Corporate Name)

(State of Corporation)

Business Address: _____

Witness: _____ By: _____
(SEAL) (Authorized Signature)

(Title)

Date: _____

ATTACHMENTS

Sub-Contractor List
Non-Collusion Statement
Bid Bond
Consent of Surety
Affidavit of Employee Drug Testing Program
Affidavit of Contractor Qualifications
DBE Subcontractor List
New Castle County Contractor License
(Others as Required by Project Manuals)

SUBCONTRACTOR LIST

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b of the Delaware Code, the following subcontractor listing must accompany any bid submittal. The bidder must list **in each category** the full name and address (City & State) of the sub-contractor that the bidder will be using to perform the work and provide material for that subcontractor category. Should the bidder’s listed subcontractor intend to provide any of their subcontractor category of work through a third-tier contractor, the bidder shall list that third-tier contractor’s full name and address (City & State). **If the bidder intends to perform any category of work itself, it must list its full name and address.** For clarification, if the bidder intends to perform the work themselves, the bidder **may not** insert “not applicable”, “N/A”, “self” or anything other than its own full name and address (City & State). To do so shall cause the bid to be rejected. In addition, the failure to produce a completed subcontractor list with the bid submittal shall cause the bid to be rejected. If you have more than three (3) third-tier contractors to report in any subcontractor category, print out additional page(s) containing the appropriate category, complete the rest of your list of third-tier contractors for that category, notate the addition in parentheses as (CONTINUATION) next to the subcontractor category and an asterisk (*) next to any additional third-tier contractors, and submit it with your bid.

<u>Subcontractor Category</u>	<u>Subcontractor</u>	<u>Address (City & State)</u>	<u>Subcontractors tax-payer ID # or Delaware Business license #</u>
1. <u>Specialties</u>			
2. <u>Canopies</u>			
3. <u>Special Systems</u>			
4. _____			
5. _____			
6. <u>NO ADDITIONAL ENTRIES REQUIRED</u>			

NON-COLLUSION STATEMENT

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

All the terms and conditions of Contract: _____ have been thoroughly examined and are understood.

NAME OF BIDDER: _____

AUTHORIZED REPRESENTATIVE
(TYPED): _____

AUTHORIZED REPRESENTATIVE
(SIGNATURE): _____

TITLE: _____

ADDRESS OF BIDDER: _____

E-MAIL: _____

PHONE NUMBER: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

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

CONSENT OF SURETY

DATE _____

To: NCC Vocational Technical School District
1417 Newport Road
Wilmington, DE 19804

Gentlemen:

We, the _____

(Surety Company's Address)

a Surety Company authorized to do business in the State of Delaware hereby agrees that if

(Contractor)

(Address)

is awarded the Contract No. _____

We will write the required Performance and/or Labor and Material Bond required by Paragraph 9 of the Instructions to Bidders.

(Surety Company)

By _____
(Attorney-in-Fact)

AFFIDAVIT
OF
EMPLOYEE DRUG TESTING PROGRAM

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

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

Contractor/Subcontractor Name: _____

Contractor/Subcontractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

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

**AFFIDAVIT
OF
CONTRACTOR QUALIFICATIONS**

We hereby certify that we will abide by the contractor's qualifications outlined in the construction bid specifications for the duration of the contract term.

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b.3 of the Delaware Code, after a contract has been awarded the successful bidder shall not substitute another subcontractor whose name was submitted on the Subcontractor Form except for the reasons in the statute and not without written consent from the awarding agency. Failure to utilize the subcontractors on the list will subject the successful bidder to penalties as outlined in the General Requirements Section 5.2 of the contract.

Contractor Name: _____

Contractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

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

My Commission expires _____. NOTARY PUBLIC _____.

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

DBE SUBCONTRACTOR LIST

DBE Name	DBE Address	DBE Phone Number	DBE Email address	DelDOT or OSD Registration Number	DBE % of Contract	Description of Work

Total DBEs on project: _____

END OF SECTION

CONTRACT NO: E-18 – FINAL CLEANING

BID FORM

For Bids Due: _____

To: NCCVT School District
1417 Newport Road
Wilmington, DE 19804

Name of Bidder: _____

Bidder Address: _____

Contact Name: _____ E-Mail Address: _____

Delaware Business License No.: _____ Taxpayer ID No.: _____

(Other License Nos.): _____

(A copy of Bidder's Licenses must be attached to this form.)

Phone No.: (____) _____ - _____ Fax No.: (____) _____ - _____

The undersigned, representing that he has read and understands the Bidding Documents and that this bid is made in accordance therewith, that he has visited the site and has familiarized himself with the local conditions under which the Work is to be performed, and that his bid is based upon the materials, systems and equipment described in the Bidding Documents without exception, hereby proposes and agrees to provide all labor, materials, plant, equipment, supplies, transport and other facilities required to execute the work described by the aforesaid documents for the lump sum itemized below:

\$ _____ (\$ _____)

ALLOWANCES

We/I confirm that an Allowances in the amount of \$30,000 have been included in the Base Bid price listed above. This allowance is to be used at the Owner and Construction Manager's discretion. All remaining allowance shall be returned to the Owner at completion.

I/We acknowledge Addendums numbered _____ and the price(s) submitted include any cost/schedule impact they may have.

This bid shall remain valid and cannot be withdrawn for sixty (60) days from the date of opening of bids, and the undersigned shall abide by the Bid Security forfeiture provisions. Bid Security is attached to this Bid (if required).

The Owner shall have the right to reject any or all bids, and to waive any informality or irregularity in any bid received.

This bid is based upon work being accomplished by the Sub-Contractors named on the list attached to this bid.

Should I/We be awarded this contract, I/We pledge to achieve substantial completion of all the work within the durations included in the bid schedule provided and Section 013216 Const. Schedule.

The undersigned represents and warrants that he has complied and shall comply with all requirements of local, state, and national laws; that no legal requirement has been or shall be violated in making or accepting this bid, in awarding the contract to him or in the prosecution of the work required; that the bid is legal and firm; that he has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken action in restraint of free competitive bidding.

Upon receipt of written notice of the acceptance of this Bid, the Bidder shall, within twenty (20) calendar days, execute the agreement in the required form and deliver the Contract Bonds, and Insurance Certificates, required by the Contract Documents.

I am/We are an Individual/a Partnership/a Corporation

By _____ Trading as _____
(Individual's / General Partner's / Corporate Name)

(State of Corporation)

Business Address: _____

Witness: _____ By: _____
(SEAL) (Authorized Signature)

(Title)

Date: _____

ATTACHMENTS

Sub-Contractor List
Non-Collusion Statement
Bid Bond
Consent of Surety
Affidavit of Employee Drug Testing Program
Affidavit of Contractor Qualifications
DBE Subcontractor List
New Castle County Contractor License
(Others as Required by Project Manuals)

SUBCONTRACTOR LIST

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b of the Delaware Code, the following subcontractor listing must accompany any bid submittal. The bidder must list **in each category** the full name and address (City & State) of the sub-contractor that the bidder will be using to perform the work and provide material for that subcontractor category. Should the bidder’s listed subcontractor intend to provide any of their subcontractor category of work through a third-tier contractor, the bidder shall list that third-tier contractor’s full name and address (City & State). **If the bidder intends to perform any category of work itself, it must list its full name and address.** For clarification, if the bidder intends to perform the work themselves, the bidder **may not** insert “not applicable”, “N/A”, “self” or anything other than its own full name and address (City & State). To do so shall cause the bid to be rejected. In addition, the failure to produce a completed subcontractor list with the bid submittal shall cause the bid to be rejected. If you have more than three (3) third-tier contractors to report in any subcontractor category, print out additional page(s) containing the appropriate category, complete the rest of your list of third-tier contractors for that category, notate the addition in parentheses as (CONTINUATION) next to the subcontractor category and an asterisk (*) next to any additional third-tier contractors, and submit it with your bid.

<u>Subcontractor Category</u>	<u>Subcontractor</u>	<u>Address (City & State)</u>	<u>Subcontractors tax-payer ID # or Delaware Business license #</u>
1. <u>Bleachers and Grandstands</u>			
2. <u>Final Cleaning</u>			
3. _____			
4. _____			
5. _____			
6. <u>NO ADDITIONAL ENTRIES REQUIRED</u>			

NON-COLLUSION STATEMENT

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

All the terms and conditions of Contract: _____ have been thoroughly examined and are understood.

NAME OF BIDDER: _____

AUTHORIZED REPRESENTATIVE
(TYPED): _____

AUTHORIZED REPRESENTATIVE
(SIGNATURE): _____

TITLE: _____

ADDRESS OF BIDDER: _____

E-MAIL: _____

PHONE NUMBER: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

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

CONSENT OF SURETY

DATE _____

To: NCC Vocational Technical School District
1417 Newport Road
Wilmington, DE 19804

Gentlemen:

We, the _____

(Surety Company's Address)

a Surety Company authorized to do business in the State of Delaware hereby agrees that if

(Contractor)

(Address)

is awarded the Contract No. _____

We will write the required Performance and/or Labor and Material Bond required by Paragraph 9 of the Instructions to Bidders.

(Surety Company)

By _____
(Attorney-in-Fact)

AFFIDAVIT
OF
EMPLOYEE DRUG TESTING PROGRAM

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

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

Contractor/Subcontractor Name: _____

Contractor/Subcontractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

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

**AFFIDAVIT
OF
CONTRACTOR QUALIFICATIONS**

We hereby certify that we will abide by the contractor's qualifications outlined in the construction bid specifications for the duration of the contract term.

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b.3 of the Delaware Code, after a contract has been awarded the successful bidder shall not substitute another subcontractor whose name was submitted on the Subcontractor Form except for the reasons in the statute and not without written consent from the awarding agency. Failure to utilize the subcontractors on the list will subject the successful bidder to penalties as outlined in the General Requirements Section 5.2 of the contract.

Contractor Name: _____

Contractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

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

My Commission expires _____. NOTARY PUBLIC _____.

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

DBE SUBCONTRACTOR LIST

DBE Name	DBE Address	DBE Phone Number	DBE Email address	DelDOT or OSD Registration Number	DBE % of Contract	Description of Work

Total DBEs on project: _____

END OF SECTION

CONTRACT NO: E-19 – GENERAL LABOR AND CLEAN-UP

BID FORM

For Bids Due: _____

To: NCCVT School District
1417 Newport Road
Wilmington, DE 19804

Name of Bidder: _____

Bidder Address: _____

Contact Name: _____ E-Mail Address: _____

Delaware Business License No.: _____ Taxpayer ID No.: _____

(Other License Nos.): _____

(A copy of Bidder's Licenses must be attached to this form.)

Phone No.: (____) _____ - _____ Fax No.: (____) _____ - _____

The undersigned, representing that he has read and understands the Bidding Documents and that this bid is made in accordance therewith, that he has visited the site and has familiarized himself with the local conditions under which the Work is to be performed, and that his bid is based upon the materials, systems and equipment described in the Bidding Documents without exception, hereby proposes and agrees to provide all labor, materials, plant, equipment, supplies, transport and other facilities required to execute the work described by the aforesaid documents for the lump sum itemized below:

\$ _____ (\$ _____)

ALLOWANCES

We/I confirm that an Allowances in the amount of \$7,500 have been included in the Base Bid price listed above. This allowance is for material handling tools. To include but not limited to, wheeled bins for trash removal, shovels, brooms, trash bags etc. purchased materials shall be tracked with receipts and verified. Any funds left unspent will be returned to the owner via credit change order. (all tools purchased under this allocation shall be organized and turned over to the owner at completion of the work).

UNIT PRICES

Unit prices conform to applicable project specification section. Refer to the specifications for a complete description of the following Unit Prices:

	Add	Deduct	Add	Deduct
1. Addition or deletion of manhours from base contract.	_____	_____	_____	_____

NOTE: The difference in price between Add and Deduct in the above Unit Prices should not exceed fifteen percent (10%).

I/We acknowledge Addendums numbered _____ and the price(s) submitted include any cost/schedule impact they may have.

This bid shall remain valid and cannot be withdrawn for sixty (60) days from the date of opening of bids, and the undersigned shall abide by the Bid Security forfeiture provisions. Bid Security is attached to this Bid (if required).

The Owner shall have the right to reject any or all bids, and to waive any informality or irregularity in any bid received.

This bid is based upon work being accomplished by the Sub-Contractors named on the list attached to this bid.

Should I/We be awarded this contract, I/We pledge to achieve substantial completion of all the work within the durations included in the bid schedule provided and Section 013216 Const. Schedule.

The undersigned represents and warrants that he has complied and shall comply with all requirements of local, state, and national laws; that no legal requirement has been or shall be violated in making or accepting this bid, in awarding the contract to him or in the prosecution of the work required; that the bid is legal and firm; that he has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken action in restraint of free competitive bidding.

Upon receipt of written notice of the acceptance of this Bid, the Bidder shall, within twenty (20) calendar days, execute the agreement in the required form and deliver the Contract Bonds, and Insurance Certificates, required by the Contract Documents.

I am/We are an Individual/a Partnership/a Corporation

By _____ Trading as _____
(Individual's / General Partner's / Corporate Name)

(State of Corporation)

Business Address: _____

Witness: _____ By: _____
(SEAL) (Authorized Signature)
(Title)
Date: _____

ATTACHMENTS

Sub-Contractor List
Non-Collusion Statement
Bid Bond
Consent of Surety
Affidavit of Employee Drug Testing Program
Affidavit of Contractor Qualifications
DBE Subcontractor List
New Castle County Contractor License
(Others as Required by Project Manuals)

SUBCONTRACTOR LIST

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b of the Delaware Code, the following subcontractor listing must accompany any bid submittal. The bidder must list **in each category** the full name and address (City & State) of the sub-contractor that the bidder will be using to perform the work and provide material for that subcontractor category. Should the bidder's listed subcontractor intend to provide any of their subcontractor category of work through a third-tier contractor, the bidder shall list that third-tier contractor's full name and address (City & State). **If the bidder intends to perform any category of work itself, it must list its full name and address.** For clarification, if the bidder intends to perform the work themselves, the bidder **may not** insert "not applicable", "N/A", "self" or anything other than its own full name and address (City & State). To do so shall cause the bid to be rejected. In addition, the failure to produce a completed subcontractor list with the bid submittal shall cause the bid to be rejected. If you have more than three (3) third-tier contractors to report in any subcontractor category, print out additional page(s) containing the appropriate category, complete the rest of your list of third-tier contractors for that category, notate the addition in parentheses as (CONTINUATION) next to the subcontractor category and an asterisk (*) next to any additional third-tier contractors, and submit it with your bid.

<u>Subcontractor Category</u>	<u>Subcontractor</u>	<u>Address (City & State)</u>	<u>Subcontractors tax-payer ID # or Delaware Business license #</u>
1. <u>Fire Protection</u>			
2. <u>Labor</u>			
3. _____			
4. _____			
5. _____			
6. <u>NO ADDITIONAL ENTRIES REQUIRED</u>			

NON-COLLUSION STATEMENT

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

All the terms and conditions of Contract: _____ have been thoroughly examined and are understood.

NAME OF BIDDER: _____

AUTHORIZED REPRESENTATIVE
(TYPED): _____

AUTHORIZED REPRESENTATIVE
(SIGNATURE): _____

TITLE: _____

ADDRESS OF BIDDER: _____

E-MAIL: _____

PHONE NUMBER: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

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

CONSENT OF SURETY

DATE _____

To: NCC Vocational Technical School District
1417 Newport Road
Wilmington, DE 19804

Gentlemen:

We, the _____

(Surety Company's Address)

a Surety Company authorized to do business in the State of Delaware hereby agrees that if

(Contractor)

(Address)

is awarded the Contract No. _____

We will write the required Performance and/or Labor and Material Bond required by Paragraph 9 of the Instructions to Bidders.

(Surety Company)

By _____
(Attorney-in-Fact)

AFFIDAVIT
OF
EMPLOYEE DRUG TESTING PROGRAM

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

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

Contractor/Subcontractor Name: _____

Contractor/Subcontractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

Sworn to and Subscribed before me this _____ day of _____ 20_____.

My Commission expires _____. NOTARY PUBLIC _____.

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

**AFFIDAVIT
OF
CONTRACTOR QUALIFICATIONS**

We hereby certify that we will abide by the contractor's qualifications outlined in the construction bid specifications for the duration of the contract term.

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b.3 of the Delaware Code, after a contract has been awarded the successful bidder shall not substitute another subcontractor whose name was submitted on the Subcontractor Form except for the reasons in the statute and not without written consent from the awarding agency. Failure to utilize the subcontractors on the list will subject the successful bidder to penalties as outlined in the General Requirements Section 5.2 of the contract.

Contractor Name: _____

Contractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

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

My Commission expires _____. NOTARY PUBLIC _____.

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

DBE SUBCONTRACTOR LIST

DBE Name	DBE Address	DBE Phone Number	DBE Email address	DelDOT or OSD Registration Number	DBE % of Contract	Description of Work

Total DBEs on project: _____

END OF SECTION

CONTRACT NO: E-20 FLAGGER ENTRANCE PROTECTION

BID FORM

For Bids Due: _____

To: NCCVT School District
1417 Newport Road
Wilmington, DE 19804

Name of Bidder: _____

Bidder Address: _____

Contact Name: _____ E-Mail Address: _____

Delaware Business License No.: _____ Taxpayer ID No.: _____

(Other License Nos.): _____

(A copy of Bidder's Licenses must be attached to this form.)

Phone No.: (____) _____ - _____ Fax No.: (____) _____ - _____

The undersigned, representing that he has read and understands the Bidding Documents and that this bid is made in accordance therewith, that he has visited the site and has familiarized himself with the local conditions under which the Work is to be performed, and that his bid is based upon the materials, systems and equipment described in the Bidding Documents without exception, hereby proposes and agrees to provide all labor, materials, plant, equipment, supplies, transport and other facilities required to execute the work described by the aforesaid documents for the lump sum itemized below:

\$ _____ (\$ _____)

ALLOWANCES

We/I confirm that an Allowances in the amount of \$10,000.00 have been included in the Base Bid price listed above. This allowance is for material handling tools. To include but not limited to, wheeled bins for trash removal, shovels, brooms, trash bags etc. purchased materials shall be tracked with receipts and verified. Any funds left unspent will be returned to the owner via credit change order. (all tools purchased under this allocation shall be organized and turned over to the owner at completion of the work).

I/We acknowledge Addendums numbered _____ and the price(s) submitted include any cost/schedule impact they may have.

This bid shall remain valid and cannot be withdrawn for sixty (60) days from the date of opening of bids, and the undersigned shall abide by the Bid Security forfeiture provisions. Bid Security is attached to this Bid (if required).

The Owner shall have the right to reject any or all bids, and to waive any informality or irregularity in any bid received.

This bid is based upon work being accomplished by the Sub-Contractors named on the list attached to this bid.

Should I/We be awarded this contract, I/We pledge to achieve substantial completion of all the work within the durations included in the bid schedule provided and Section 013216 Const. Schedule.

The undersigned represents and warrants that he has complied and shall comply with all requirements of local, state, and national laws; that no legal requirement has been or shall be violated in making or accepting this bid, in awarding the contract to him or in the prosecution of the work required; that the bid is legal and firm; that he has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken action in restraint of free competitive bidding.

Upon receipt of written notice of the acceptance of this Bid, the Bidder shall, within twenty (20) calendar days, execute the agreement in the required form and deliver the Contract Bonds, and Insurance Certificates, required by the Contract Documents.

I am/We are an Individual/a Partnership/a Corporation

By _____ Trading as _____
(Individual's / General Partner's / Corporate Name)

(State of Corporation)

Business Address: _____

Witness: _____ By: _____
(SEAL) (Authorized Signature)

(Title)
Date: _____

ATTACHMENTS

Sub-Contractor List
Non-Collusion Statement
Bid Bond
Consent of Surety
Affidavit of Employee Drug Testing Program
Affidavit of Contractor Qualifications
DBE Subcontractor List
New Castle County Contractor License
(Others as Required by Project Manuals)

SUBCONTRACTOR LIST

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b of the Delaware Code, the following subcontractor listing must accompany any bid submittal. The bidder must list **in each category** the full name and address (City & State) of the sub-contractor that the bidder will be using to perform the work and provide material for that subcontractor category. Should the bidder’s listed subcontractor intend to provide any of their subcontractor category of work through a third-tier contractor, the bidder shall list that third-tier contractor’s full name and address (City & State). **If the bidder intends to perform any category of work itself, it must list its full name and address.** For clarification, if the bidder intends to perform the work themselves, the bidder **may not** insert “not applicable”, “N/A”, “self” or anything other than its own full name and address (City & State). To do so shall cause the bid to be rejected. In addition, the failure to produce a completed subcontractor list with the bid submittal shall cause the bid to be rejected. If you have more than three (3) third-tier contractors to report in any subcontractor category, print out additional page(s) containing the appropriate category, complete the rest of your list of third-tier contractors for that category, notate the addition in parentheses as (CONTINUATION) next to the subcontractor category and an asterisk (*) next to any additional third-tier contractors, and submit it with your bid.

<u>Subcontractor Category</u>	<u>Subcontractor</u>	<u>Address (City & State)</u>	<u>Subcontractors tax-payer ID # or Delaware Business license #</u>
1. <u>Flagger</u>			
2. _____			
3. _____			
4. _____			
5. _____			
6. <u>NO ADDITIONAL ENTRIES REQUIRED</u>			

NON-COLLUSION STATEMENT

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

All the terms and conditions of Contract: _____ have been thoroughly examined and are understood.

NAME OF BIDDER: _____

AUTHORIZED REPRESENTATIVE
(TYPED): _____

AUTHORIZED REPRESENTATIVE
(SIGNATURE): _____

TITLE: _____

ADDRESS OF BIDDER: _____

E-MAIL: _____

PHONE NUMBER: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

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

CONSENT OF SURETY

DATE _____

To: NCC Vocational Technical School District
1417 Newport Road
Wilmington, DE 19804

Gentlemen:

We, the _____

(Surety Company's Address)

a Surety Company authorized to do business in the State of Delaware hereby agrees that if

(Contractor)

(Address)

is awarded the Contract No. _____

We will write the required Performance and/or Labor and Material Bond required by Paragraph 9 of the Instructions to Bidders.

(Surety Company)

By _____
(Attorney-in-Fact)

AFFIDAVIT
OF
EMPLOYEE DRUG TESTING PROGRAM

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

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

Contractor/Subcontractor Name: _____

Contractor/Subcontractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

Sworn to and Subscribed before me this _____ day of _____ 20_____.

My Commission expires _____. NOTARY PUBLIC _____.

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

**AFFIDAVIT
OF
CONTRACTOR QUALIFICATIONS**

We hereby certify that we will abide by the contractor's qualifications outlined in the construction bid specifications for the duration of the contract term.

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b.3 of the Delaware Code, after a contract has been awarded the successful bidder shall not substitute another subcontractor whose name was submitted on the Subcontractor Form except for the reasons in the statute and not without written consent from the awarding agency. Failure to utilize the subcontractors on the list will subject the successful bidder to penalties as outlined in the General Requirements Section 5.2 of the contract.

Contractor Name: _____

Contractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

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

My Commission expires _____. NOTARY PUBLIC _____.

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

DBE SUBCONTRACTOR LIST

DBE Name	DBE Address	DBE Phone Number	DBE Email address	DelDOT or OSD Registration Number	DBE % of Contract	Description of Work

Total DBEs on project: _____

END OF SECTION

CONTRACT NO: E-21 – JOINT SEALANTS AND PREFORMED JOINT ASSEMBLIES

BID FORM

For Bids Due: _____

To: NCCVT School District
1417 Newport Road
Wilmington, DE 19804

Name of Bidder: _____

Bidder Address: _____

Contact Name: _____ E-Mail Address: _____

Delaware Business License No.: _____ Taxpayer ID No.: _____

(Other License Nos.): _____

(A copy of Bidder's Licenses must be attached to this form.)

Phone No.: (____) _____ - _____ Fax No.: (____) _____ - _____

The undersigned, representing that he has read and understands the Bidding Documents and that this bid is made in accordance therewith, that he has visited the site and has familiarized himself with the local conditions under which the Work is to be performed, and that his bid is based upon the materials, systems and equipment described in the Bidding Documents without exception, hereby proposes and agrees to provide all labor, materials, plant, equipment, supplies, transport and other facilities required to execute the work described by the aforesaid documents for the lump sum itemized below:

\$ _____ (\$ _____)

ALLOWANCES

We/I confirm that an Allowances in the amount of \$10,000.00 have been included in the Base Bid price listed above. This allowance is for material handling tools. To include but not limited to, wheeled bins for trash removal, shovels, brooms, trash bags etc. purchased materials shall be tracked with receipts and verified. Any funds left unspent will be returned to the owner via credit change order. (all tools purchased under this allocation shall be organized and turned over to the owner at completion of the work).

ALTERNATES

Alternate prices conform to applicable project specification section. Refer to specifications for a complete description of the following Alternates. An "ADD" or "DEDUCT" amount is indicated by the crossed out part that does not apply.

Alternate No. 3: Provide Building E1 work associated with your contract scope.

Add/Deduct _____ (\$ _____)

CONTRACT E-21 – JOINT SEALANTS AND PREFORMED JOINT ASSEMBLIES

BID FORM AND ATTACHMENTS

PU19, Revised 12/2022

004100-1

Alternate No. 4: Provide Building E5 work associated with your contract scope.

Add/Deduct _____ (\$_____)

I/We acknowledge Addendums numbered _____ and the price(s) submitted include any cost/schedule impact they may have.

This bid shall remain valid and cannot be withdrawn for sixty (60) days from the date of opening of bids, and the undersigned shall abide by the Bid Security forfeiture provisions. Bid Security is attached to this Bid (if required).

The Owner shall have the right to reject any or all bids, and to waive any informality or irregularity in any bid received.

This bid is based upon work being accomplished by the Sub-Contractors named on the list attached to this bid.

Should I/We be awarded this contract, I/We pledge to achieve substantial completion of all the work within the durations included in the bid schedule provided and Section 013216 Const. Schedule.

The undersigned represents and warrants that he has complied and shall comply with all requirements of local, state, and national laws; that no legal requirement has been or shall be violated in making or accepting this bid, in awarding the contract to him or in the prosecution of the work required; that the bid is legal and firm; that he has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken action in restraint of free competitive bidding.

Upon receipt of written notice of the acceptance of this Bid, the Bidder shall, within twenty (20) calendar days, execute the agreement in the required form and deliver the Contract Bonds, and Insurance Certificates, required by the Contract Documents.

I am/We are an Individual/a Partnership/a Corporation

By _____ Trading as _____
(Individual's / General Partner's / Corporate Name)

(State of Corporation)

Business Address: _____

Witness: _____ By: _____
(SEAL) (Authorized Signature)

(Title)

Date: _____

ATTACHMENTS

Sub-Contractor List
Non-Collusion Statement
Bid Bond
Consent of Surety
Affidavit of Employee Drug Testing Program
Affidavit of Contractor Qualifications
DBE Subcontractor List
New Castle County Contractor License
(Others as Required by Project Manuals)

SUBCONTRACTOR LIST

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b of the Delaware Code, the following subcontractor listing must accompany any bid submittal. The bidder must list **in each category** the full name and address (City & State) of the sub-contractor that the bidder will be using to perform the work and provide material for that subcontractor category. Should the bidder’s listed subcontractor intend to provide any of their subcontractor category of work through a third-tier contractor, the bidder shall list that third-tier contractor’s full name and address (City & State). **If the bidder intends to perform any category of work itself, it must list its full name and address.** For clarification, if the bidder intends to perform the work themselves, the bidder **may not** insert “not applicable”, “N/A”, “self” or anything other than its own full name and address (City & State). To do so shall cause the bid to be rejected. In addition, the failure to produce a completed subcontractor list with the bid submittal shall cause the bid to be rejected. If you have more than three (3) third-tier contractors to report in any subcontractor category, print out additional page(s) containing the appropriate category, complete the rest of your list of third-tier contractors for that category, notate the addition in parentheses as (CONTINUATION) next to the subcontractor category and an asterisk (*) next to any additional third-tier contractors, and submit it with your bid.

<u>Subcontractor Category</u>	<u>Subcontractor</u>	<u>Address (City & State)</u>	<u>Subcontractors tax-payer ID # or Delaware Business license #</u>
1. <u>Joint Sealants</u>			
2. _____			
3. _____			
4. _____			
5. _____			
6. <u>NO ADDITIONAL ENTRIES REQUIRED</u>			

NON-COLLUSION STATEMENT

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

All the terms and conditions of Contract: _____ have been thoroughly examined and are understood.

NAME OF BIDDER: _____

AUTHORIZED REPRESENTATIVE
(TYPED): _____

AUTHORIZED REPRESENTATIVE
(SIGNATURE): _____

TITLE: _____

ADDRESS OF BIDDER: _____

E-MAIL: _____

PHONE NUMBER: _____

Sworn to and Subscribed before me this _____ day of _____ 20____.

My Commission expires _____. NOTARY PUBLIC _____.

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

CONSENT OF SURETY

DATE _____

To: NCC Vocational Technical School District
1417 Newport Road
Wilmington, DE 19804

Gentlemen:

We, the _____

(Surety Company's Address)

a Surety Company authorized to do business in the State of Delaware hereby agrees that if

(Contractor)

(Address)

is awarded the Contract No. _____

We will write the required Performance and/or Labor and Material Bond required by Paragraph 9 of the Instructions to Bidders.

(Surety Company)

By _____
(Attorney-in-Fact)

AFFIDAVIT
OF
EMPLOYEE DRUG TESTING PROGRAM

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

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

Contractor/Subcontractor Name: _____

Contractor/Subcontractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

Sworn to and Subscribed before me this _____ day of _____ 20_____.

My Commission expires _____. NOTARY PUBLIC _____.

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

**AFFIDAVIT
OF
CONTRACTOR QUALIFICATIONS**

We hereby certify that we will abide by the contractor's qualifications outlined in the construction bid specifications for the duration of the contract term.

In accordance with Title 29, Chapter 69, Section 6962(d)(10)b.3 of the Delaware Code, after a contract has been awarded the successful bidder shall not substitute another subcontractor whose name was submitted on the Subcontractor Form except for the reasons in the statute and not without written consent from the awarding agency. Failure to utilize the subcontractors on the list will subject the successful bidder to penalties as outlined in the General Requirements Section 5.2 of the contract.

Contractor Name: _____

Contractor Address: _____

Authorized Representative (typed or printed): _____

Authorized Representative (signature): _____

Title: _____

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

My Commission expires _____. NOTARY PUBLIC _____.

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

DBE SUBCONTRACTOR LIST

DBE Name	DBE Address	DBE Phone Number	DBE Email address	DelDOT or OSD Registration Number	DBE % of Contract	Description of Work

Total DBEs on project: _____

END OF SECTION

[illegible]

SECTION 011100 - SUMMARY OF WORK

1. RELATED DOCUMENTS

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

2. CONTRACTS

- A. The work will be performed under separate prime contracts managed by the Construction Manager.

3. ALTERATIONS & COORDINATION

- A. Contractor shall be responsible to coordinate their work with the work of others, including, but not limited to, the preparation of general coordination drawings, diagrams and schedules, and control of site utilization, from the beginning of activity, through project close-out and warranty periods.

4. KNOWLEDGE OF CONTRACT REQUIREMENTS

- A. The Contractor and his Subcontractors, Sub-subcontractors and material men shall consult in detail the Contract Documents for instructions and requirements pertaining to the Work, and at his and their cost, shall provide all labor, materials, equipment and services necessary to furnish, install and complete the work in strict conformance with all provisions thereof.
- B. The Contractor will be held to have examined the site of the Work prior to submitting his proposal and informed himself, his Subcontractors, Sub-subcontractors and material men of all existing conditions affecting the execution of the Work.
- C. The Contractor will be held to have examined the Contract Documents and modifications thereto, as they may affect subdivisions of the Work and informed himself, his Subcontractors, Sub-subcontractors and material men of all conditions thereof affecting the execution of the Work.
- D. The Scope of Work for the Contract is not necessarily limited to the description of each section of the Specifications and the illustrations shown on the Drawings. Include all minor items not expressly indicated in the Contract Documents, or as might be found necessary as a result of field conditions, in order to complete the Work as it is intended, without any gaps between the various subdivisions of work.
- E. The Contractor will be held to be thoroughly familiar with all conditions affecting labor in the area of the Project including, but not limited to, Unions, incentive pay, procurements, living, parking and commuting conditions and to have informed his Subcontractors and Sub-subcontractors thereof.

5. CONTRACT DOCUMENTS INFORMATION

- A. The Contract Documents are prepared in accordance with available information as to existing conditions and locations. If, during construction, conditions are revealed at variance with the Contract Documents, notify the Construction Manager immediately, but no more than three (3) days from the day the variance is first known. Failure to give timely notice shall operate to waive any claim Contractor might otherwise have for an adjustment to Contract Time or Sum as a consequence of such variance.
- B. The Specifications determine the kinds and methods of installation of the various materials, the Drawings establish the quantities, dimensions and details of materials, the schedules on the Drawings give the location, type and extent of the materials.
- C. Dimensions given on the Drawings govern scale measurements and large scale drawings govern small scale drawings, except as to anything omitted unless such omission is expressly noted on the large scale drawings.
- D. The techniques or methods of specifying to record requirements varies throughout text, and may include "prescriptive", "open generic/descriptive", "compliance with standards", "performance", "proprietary", or a combination of these. The methods used for specifying one unit of work has no bearing on requirements for another unit of work.
- E. Whenever a material, article or piece of equipment is referred to in the singular number in the Contract Documents, it shall be the same as referring to it in the plural. As many such materials, articles or pieces of equipment shall be provided as are required to complete the Work.
- F. Whenever a material, article or piece of equipment is specified by reference to a governmental, trade association of similar standard, it shall comply with the requirements of the latest publication thereof and amendments thereto in effect on the bid date.
- G. In addition to the requirements of the Contract Documents, Contractor's work shall also comply with applicable standards of the construction industry and those industry standards are made a part of Contract Documents by reference, as if copied directly into Contract Documents, or as if published copies were bound herein.
- H. Where compliance with two (2) or more industry standards, contract requirements, or sets of requirements is specified, and overlapping of those different standards or requirements establishes different or conflicting minimums or levels of quality, then the most stringent requirements, which are generally recognized to be also the most costly, is intended and will be enforced, unless specifically detailed language written into the Contract Documents clearly indicates that a less stringent requirement is to be fulfilled. Refer apparently equal but different requirements, and uncertainties as to which level of quality is more stringent, to Architect for decision before proceeding.
- I. Reference standards referenced directly in Contract Documents or by governing regulations have precedence over non-reference standards which are recognized in industry for applicability of work.

- J. Contractor's bid is based on the complete set of Contract Documents including documents not specifically issued as part of the bid pack but referenced in same.

6. SCOPE OF WORK/GENERAL INFORMATION

- A. A Scope of Work for each contract to be awarded on the project follows in this section. When a Contract has been awarded to a Contractor, the successful Contractor will be listed after the title of the Contract. When no Contract has yet been awarded, no Contractor's name will be listed. Previous Scopes of Work include addendum changes.
- B. Contractor is responsible for performing the work listed in the Summary of Work for his contract. Contractor is also responsible for knowing the work that has been assigned to preceding contracts. No additional compensation or extension of time will be allowed a Contractor due to his ignorance of the work assigned to his Contract or to other contracts which may affect his work. The Contractor is responsible, however, for all items which are covered in the Specifications and Drawings relating to their Contract if not specifically mentioned in the Summary of Work.
- C. The Construction Manager will provide on-site a source for temporary electric, temporary water and portable sanitation facilities only. It is each Contractor's responsibility to make the necessary connections, including all material for temporary electric and water. Please note that utility charges for office trailers will be the responsibility of the individual Contractors.
- D. A dumpster will be provided on site for free use by Contractors to dispose of non-hazardous, common, work-related refuse. Clean-up is the responsibility of each Contractor. Clean up shall be performed on a daily basis. Contractors not complying will be advised in writing and back charged for all costs associated with the cleanup of their work.
- E. Contractors are reminded that there are limited storage areas available on site. Off-site storage will be the responsibility of each individual Contractor.
- F. Office trailer permits off site will be the responsibility of each individual Contractor. On site Contractor's field offices, one (1) per Contractor, if required, will be located as directed by the Construction Manager.
- G. Contractor will be prepared to discuss and submit a detailed project schedule seven (7) days after receipt of Notice to Proceed and to begin its submittal process. The Project Schedule is an integral part of this contract. Certain construction sequences and priorities must take place in order to meet the target dates. Concentrated work periods will occur and each Contractor is responsible to staff the project as required by the current Construction Schedule or as directed by the Construction Manager. Contractor will co operate with the Construction Manager in planning and meeting the required sequences of work and Project Schedule as periodically updated by the Construction Manager.
- H. All bids must include insurance limits in accordance with Article 11 of the Section 007300 SUPPLEMENTARY CONDITIONS.

ADDENDUM NO. 3

- I. Hoisting, scaffolding and material handling is the responsibility of each Contractor, unless otherwise noted.
- J. Contractor will be responsible for layout of its own work. The Construction Manager will provide benchmark and layout of the building line.
- K. Contractor will be responsible to keep clean public roadways soiled by construction traffic on a daily basis. If cleaning is not done, the Construction Manager may perform the cleaning on an overtime basis and backcharge the Contractor responsible.
- L. Contractor Scopes of Work and Schedule are interrelated. Familiarity with each is required.
- M. The Construction Manager will provide testing services for soil, concrete and steel. Other testing as required by the Contract Documents will be in accordance with the technical specifications and/or the individual scope of work. Refer to Specification Section 004500 - QUALITY CONTROL.
- N. Safety is the responsibility of each individual Contractor. The project will be governed under the guidelines of OSHA.
- O. Inter-Contractor shop drawing distribution will be performed by the Construction Manager. Contractor is individually responsible for either coordinating his work with these distributed drawings or notifying the Construction Manager, in writing, of any discrepancies.
- P. Coordination with other trades will be required. The Contractor will be required to attend periodic coordination meetings with other trades where requirements, conflicts and coordination issues will be discussed and resolved. Attendance when requested will be mandatory. If inter-Contractor coordination is not satisfactorily performed, the conflicting Contractors shall mutually share the cost to relocate and/or reinstall their work.
- Q. Contractor shall submit a schedule of values to the Construction Manager prior to the submission of their first invoice for approval through Building Blok.
- R. Contractor is expected to review and coordinate its Work with the complete set of Contract Documents, including all items noted as by his trade whether or not shown on that particular set of drawings. Documents are available at the site for review.
- S. Contractor is responsible for obtaining all necessary permits required for his work, including street permits. Unless otherwise noted, building permit shall be secured by the Construction Manager. Any subcontractor who will be restricting access to street, right of way or adjacent property must notify the Construction Manager 48 hours in advance.
- T. Contractor's License: Submit a copy of all business licenses required by local and state agencies.
- U. Contractor shall absorb, without additional compensation, any and all costs of working beyond normal hours to maintain job progress in accordance with the current construction schedule.

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- V. No asbestos or PCB's in or on any material or equipment will be accepted or allowed on this project. All hazardous materials will be treated in accordance with all State and Federal regulations.
- W. Daily cleanup of the work is the responsibility of each individual Contractor which includes broom cleaning of their debris as required. Contractor will be individually back charged by the Construction Manager for cleanup not satisfactorily performed by the Contractor.
- X. In the event asbestos is uncovered, the Contractor shall notify the Construction Manager of the areas requiring removal of asbestos. The Construction Manager shall then coordinate the removal with the Owner.
- Y. This project is to be constructed adjacent to existing buildings. Contractor shall exercise all due precautions to minimize noise, air pollution and any other construction hazards which in any way would cause discomfort or danger to the occupants of the existing building in the area.
- Z. The Safety Cable System shall not be altered or removed without a written request submitted to the Project Manager with a copy to the Field Manager. It shall be the responsibility of each and every Contractor that is removing or altering the Safety Cable System to maintain the fall protection safety provided by the safety cable and not leave the area unprotected. Each and every Contractor shall be responsible to re-install the Safety Cable System immediately after work is completed. Each and every Contractor shall be responsible to re-install the Safety Cable System in accordance to OSHA standards.
- AA. Normal work hours for this project are from 7:00 a.m. to 3:30 p.m. Any work to be performed outside of these hours must receive prior approval from the Construction Manager. Requests to work beyond normal work hours shall be submitted at least 48 hours prior.
- AB. Contractor is responsible for having a competent project superintendent/foreman on-site during all work performed under its contract.
- AC. In the event the Contractor has non-English speaking employees or subcontractors on the project, they shall have a superintendent or foreman on site, at all times, who speaks English and can communicate with Contractor's employees. Should the Contractor fail to meet this requirement, at any time, Construction Manager may direct all Work to stop until the proper supervision is on site. The Contractor will be responsible for maintaining the project work schedule and make up at its own expense, any delay to the Schedule resulting from the work stoppage.
- AD. Punch List Procedures: Contractor shall be given a copy of the punch list with his appropriate work identified. Contractor shall have nine (9) calendar work days to complete its punch list work. On the 10th day or as determined by the Construction Manager, the Construction Manager shall employ other contractors, as required, to complete any incomplete punch list work and retain from the appropriate Contractors retainage all costs incurred.

- AE. Contractor shall provide the necessary safety barricades and railings required to complete their work and comply with all OSHA, local code and contract specifications.
- AF. Prohibition of Using Photographs on EDiS Projects: The Contractor and all associated subcontractors agrees to not issue any news release or advertising pertaining to the Work or the Project, including references to the Project on the Contractor's/subcontractor website or other social media outlets, without obtaining EDiS' prior written approval, in each instance. The Contractor, for itself, its employees, vendors and subcontractors, agrees to not use the name of the Owner, the Project, EDiS or any photographs, videos, or other images of the Project in connection with any of Contractor's business promotion activities, advertising, website, social media outlets, or operations, without EDiS' prior written approval in each instance.
- AG. This is not a secure site. All contractors are responsible for concealing, locking and /or removing any materials on a daily basis. EDiS will not be responsible for any lost tools, materials or equipment.
- AH. Provide all BIM services as specified in Section 013700 BIM Execution Plan. As part of the coordination process all contractors are responsible for obtaining a Revizto license. The cost of this license is \$1,500 and shall be included in your base bid proposal.
- AI. All contractors must provide a silica exposure plan that meets or exceeds the new 2017silica OSHA requirements before any work can commence. At a minimum, it must be implemented into the company safety plan, include all monitoring, testing, limits exposure, provide respiratory plan and/or equipment modifications such as adding water to equipment during exposed work and keep records of exposure.
- AJ. All contractors shall be responsible to protect all non-metallic piping within the building envelope from overspray of the Applied Fireproofing, intumescent coatings, fire caulking and fire safing as it pertains to the scope of your course of work. The contractor shall be familiar with and comply with the NFPA regulations, including but not limited to the following 6.3.7.5 Firestopping materials intended for use on nonmetallic piping penetrations shall be investigated for compatibility with the nonmetallic pipe materials. 6.3.7.5 Protection plan shall be submitted and reviewed with the CM prior to implementation.
- AK. For all contracts which include allocations for CO OP hours with NCCVT students, any unutilized CO OP hours shall be returned to the district at the rates published in the documents, as a credit change order.

CONTRACT NO. E-01: DEMOLITION AND REMOVAL

A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

- Technical Specification Sections:

Division 0	Procurement and Contract Requirements
Division 1	General Requirements
Division 02	Existing Conditions
Section 024116	Structure Demolition
Section 312000	Earth Moving
Section 312300	Excavation & Backfill for Pipelines and Structures

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Provide all labor, material, trucking, equipment, dumpsters/disposal, hoisting, power, temporary facilities, permit fees, supervision, layout, maintenance of traffic/traffic control, clean up, etc. for the complete performance of all demolition work as included within the scope and specifications. **This contract is responsible for the complete Demolition and Removal of the existing Hodgson HS and all demolition notes and Attachments that relate to this scope of work. (Addendum No. 1)** Coordination of onsite utilities and disconnecting/capping of water, irrigation, electric and other identified utilities is the responsibility of this contractor.
2. **This Contractor MUST attend the Mandatory Pre-Bid meeting as identified in Section 001116 Invitation to Bid. Attendance at this meeting is a prerequisite for bidding on this contract. (Addendum No. 1)**
3. **Note:** Included in the contract documents for this project are the drawings of the existing HS for your reference.
4. **Included in Addendum #1 is an Attachment "D" which identifies the Phase I and Phase II areas of the building demolition. Phase I is the gym and greenhouse areas and will be available to begin demolition after the section is fully abated and cleared. (see bidding schedule) This contractor shall include the mobilization costs (complete) for performing the Phase I demolition and then returning to the project once the Phase II work is available. (Addendum No. 1)**
5. **This contractor is responsible to remove or demolish any equipment, furnishings, cabinets, lockers, etc. that is physically attached to the building. Additionally, where items that were attached to the building and had to be removed by the abatement contractor to abate adjacent materials (example Lockers, removed to abate floor tile under the lockers) are to be removed/demolished by this contractor (Contract E-01) (Addendum No. 1)**
6. This contractor shall be responsible to communicate and coordinate with the CM and the asbestos abatement contractor as it relates to demolishing portions of the structure that have been abated. At no time shall this contractor perform any demolition until they receive confirmation from the CM that the building section is free and clear of all asbestos materials.

7. This contractor shall include within their base bid (2) separate mobilizations with the intent that we may need to complete demolition of the building in phased Sections (after abated) while the other portion is being abated. Figure this phasing as part of your base bid.
8. This contractor shall vacate and remove as per all federal, state and local regulations all oils, hydraulic fluids, glycol, gasoline, diesel fuel etc. that is located within the areas of demolition provided for in your contract/scope.
9. Demolition of the existing elevator is part of this contract's scope and includes removal of all elevator equipment, fluids, oils etc. as required by federal, state and local regulations.
10. This contractor shall supply all power and water required to perform the scope of their contract work .
Including water supply for dust control while performing your scope of work.
11. The contractor shall fully acquaint and familiarize himself with the conditions as they exist and the character of the operations to be carried out under the proposed Contract and make such investigation as he may see fit so that he shall fully understand the facilities, physical conditions and restrictions affecting the work under the Contract. Claims for additional compensation and/or extensions of time because of Contractor's failure to familiarize himself with all conditions which might affect the work shall not be allowed.
12. Contractor shall familiarize their teams with the location/proximity of the existing turf practice field. Include protective measures to insure the field is not impacted or damaged during the course of your work on site. (this field will be utilized by the school for practices during the fall of 2026)
13. Work related to Phase 2 of the overall project (Addendum No. 1) areas are included in this contract scope.
14. Demolish all structures, buildings and their appertains construction to a below grade and remove all foundations. Fill in all depressions to a level that allows for positive drainage from all areas of the building pad to the existing storm outlets. Fill must be clean compactable fill or select material. Coordinate with other contractors on site during filling/grading segments of your work. Included in this scope is the removal of all underground piping, wiring, tanks and underground installations within your demolition areas.
15. Contractor is responsible for having a competent supervisor on site during all work performed under this contract. This supervisor will have daily contact with the EDis Field Manager and file all required daily reports.
16. All foundation walls, areaway walls, vault walls, shop walls, yard walls shall be demolished and completely removed. Depressions to be filled with suitable filler subgrade material, compacted to 95 percent of ASTM D698 and sloped to drain.
17. Before ANY excavation work is to commence, the Contractor/Excavator shall contact the utility companies or utility owners and advise them of the proposed work and ask them to mark the location of the underground utility installations. This notification shall be done within established or customary

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local response times. If the work is on private property and the utility company will not mark out the utilities, the Contractor/Excavator will hire a private locating service to mark the utilities. Once the utilities are located and marked, the Contractor/Excavator will excavate by hand or use a vacuum truck to expose the utilities and record the exact location and elevation of the utilities. The Contractor/Excavator must submit the Excavation Permit to EDiS Company verifying their assurance of communication with the utility companies or utility owners. The Contractor/Excavator must follow State, Local, and Federal Guidelines prior to proceeding with excavations. The Contractor/Excavator will have these marks restored as long as there is work to perform.

18. Salvage and store on-site all materials indicated to be saved by contract documents. Materials can be removed from site for cleaning and returned to site at the contractor's expense. All salvaged materials are to be properly palletized and protected prior to being stored at the location directed by the construction manager.
19. Coordinate with the owners (NCCVT) maintenance team on items to be salvaged and utilized by the district. (if they are to be salvaged, they will be marked in the field with a tag/marker that identifies what happens to each item.)
20. Remove from site all combustible material including, but not limited to wood, steel, iron, structural steel, and dispose of it in a legal manner. No on-site burning of material will be allowed at any time.
21. Remove from site concrete slabs on grade, hot mix paving, retaining walls (concrete and masonry) in a legal manner.
22. Items of demolition shall include, but not necessarily be limited to, complete structures, foundations, below grade footings, concrete duct banks, MEP utilities, equipment, furnishings and general debris within the areas defined to be demolished.
23. This Contractor shall notify the Construction Manager immediately if hazardous materials (i.e. asbestos, lead, PCB's, etc.) are uncovered. At that time, all work in the affected area will be stopped until proper removal can be completed by others (i.e. hazardous material abatement contractor).
24. This contractor is to remove all fluids and refrigerants from existing mechanical, plumbing, fire protection piping, and electrical equipment and lighting prior to demolition of said equipment in accordance with all Local, State and Federal regulations. Include testing for PCB's and the final regulated removal of fixtures, bulbs equipment etc.
25. The owner and CM will not provide any dumpsters or trash removal for this contract, all dumpster required for your work to be provided by this contract.
26. Temporary maintenance standby labor such as for temporary water, temporary power, temporary light and the like where required due to this Contractor's work is to be included within the Contract Price.
27. If your work impacts the local streets or roadways with debris, soil, dirt etc. you will clean immediately with proper paving cleaning equipment. (Sweeper truck with water)
28. This Contractor shall include in the Contract Price and unit prices, the cost of all police traffic details required for the execution of the work.

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29. All light, power, water, gas and any other utilities, including special provisions for hookups to same for this Contractor's operations will be provided by this Contractor within the Contract Price.
30. This Contractor shall comply with all Federal, State and local laws requiring noise control and hours which work is to be conducted. Mufflers, "whisperized" compressors, etc., shall be used as required for compliance with laws and ordinances throughout the course of the Work.
31. It is understood that all Work under this Contract shall be in strict accordance with the Building Code with the City, State and any other agency having jurisdiction. In the event of any conflict in any provisions of any regulatory agency and Contract Documents, the more stringent requirements shall apply.
32. This Contractor shall provide any and all "fire watch" personnel required due to the Contractor's cutting, burning, welding or other open flame activity.
33. This Contractor shall submit proposed methods and operations of building demolition to the Owner and CM for review prior to the start of work, including a schedule of coordinating the shut off, capping and/or continuation of utility services as required. Pre-Install meeting with EDiS required before demolition may occur.
34. Before proceeding with the demolition work, this Contractor shall obtain a permit from the City, County, or Authority Having Jurisdiction, protect all public sidewalks, streets or thoroughfares and all property adjacent to the site as required by such codes, ordinances, rules and regulations, including, but not limited to, scaffolding, sidewalk bridges, fences, barricades, aprons, warning signs and lights.
35. This Contractor shall maintain all required means of egress into and out of the project site, no roadways shall be blocked or deemed inaccessible.
36. Before demolition work is started, existing sewer, water, gas and other service lines to the existing buildings shall be located, identified and shut off, disconnected and capped or plugged in accordance with the requirements of the utility companies or other authorities having jurisdiction. If required to disconnect and cap at the "source" is required by the governing utility company, this contractor will be responsible for the work/cost. This Contractor shall notify all such authorities in advance and obtain their approval and co operation in shutting off utilities. All costs associated with disconnecting utilities shall be borne by this Contractor.
37. This Contractor shall take special precautions to shore, brace, support or relocate any utility lines as may be required to satisfy all agencies having jurisdiction.
38. This Contractor shall, in cooperation with utility companies, remove or cause to be removed all light and power poles if required to be removed, at such time as the services utilizing said poles are no longer required.
39. Street openings made for the shutting off or tapping of utility lines or for any other purpose shall be backfilled, tamped and the surfaces restored in accordance with the requirement of applicable local codes or to match existing; whichever is greater.

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40. Existing services to remain will be defined by the Owner prior to or immediately after the start of demolition work. Owner to work with this contractor to relocate identified equipment/ items per drawing notes.
41. This Contractor shall make a careful examination of the structures to be demolished and the adjoining property and utilities which are to remain; take whatever precautions are necessary and carry on operations to prevent personal injury and any settlement, collapse, damage from falling debris or other causes to adjacent building.
42. This Contractor is aware of the structural capacities of various portions of the structure. Cranes, materials, deliveries and material storage, shall not exceed rated capacities without this Contractor taking appropriate steps to compensate for the imposition of loads which may exceed the design criteria and which are imposed solely by this Contractor's operations.
43. Any damage to public property, private property, or to utilities due to demolition operations, or the Contractor's neglect, shall be corrected by this Contractor, in a manner approved by the Owner and the parties whose property has been damaged, all at no additional cost to the Owner.
44. Miscellaneous equipment and furnishings belonging to the Owner, if to be retained by the Owner, will be removed before the commencement of the demolition work. All other equipment or furnishings attached, remaining, in the buildings at the start of the demolition work shall become the property of this Contractor and shall be removed and disposed of by this Contractor. This includes equipment, furnishings, small wares and general debris that remains after the owner turns the building over to this contractor.
45. All equipment, materials and debris shall be regularly removed by this Contractor from the Site as work progresses in such manner as not to create a nuisance and shall be disposed of by this Contractor at his own expense, at locations to be determined by this Contractor. Permits required in connection with the disposal of the materials shall be obtained by this Contractor. Disposal shall be in accordance with all Federal, State and local laws, rules, codes, orders and regulations.
46. Contractor shall remove debris promptly and will not burn anything on the site. Contractor shall keep required fire extinguishing equipment in serviceable condition, properly distributed so that it will be available for immediate use, particularly during any acetylene cutting operations.
47. This Contractor shall, prior to the start of Work, provide the name and location of proposed dump site to receive the demolition debris. Dump site must be licensed and acceptable to all local government agencies having jurisdiction.
48. This Contractor shall provide signed and stamped dump site debris tickets identifying the location, date, time, and quantity of debris deposited at the dump site.
49. This is not a secure site. All contractors are responsible for concealing, locking and/or removing any materials daily. EDiS will not be responsible for any lost tools, materials, or equipment.
50. Note: The existing school and all associated activities will be ongoing as your work is performed, caution shall be utilized by your crews at all times. The main entrance to the new school will be your access, extreme caution must be utilized, including limited access between the hours of 7:00 AM and 8:30 AM

and from 2:45 PM to 3:15 PM

51. This Contractor shall provide any and all "fire watch" personnel required due to the Contractor's cutting, burning, welding or other open flame activity.
52. This Contractor shall submit proposed methods and operations of building demolition to the Owner, his representative or agents for review prior to the start of work, including a schedule of coordinating the shut off, capping and/or continuation of utility services as required.
53. This Contractor shall visit the site of the proposed work, fully acquaint and familiarize himself with the conditions as they exist and the character of the operations to be carried out under the proposed Contract, and make such investigation as he may see fit so that he shall fully understand the facilities, physical conditions and restrictions affecting the work under the Contract. Claims for additional compensation and/or extensions of time because of Contractor's failure to familiarize himself with all conditions which might affect the work shall not be allowed.
54. Contractor shall remove debris promptly and will not burn anything on the site. Contractor shall keep required fire extinguishing equipment in serviceable condition, properly distributed so that it will be available for immediate use, particularly during any acetylene cutting operations. This Contractor shall afford adequate facilities for inspection by, and carry out the recommendations of, the local Fire Department. This Contractor shall maintain one fire riser during demolition.
55. Provide a \$75,000 allowance, included in base bid, to be utilized for work directed by the CM and Owner. All unused allowance shall be returned to the owner.

CONTRACT NO. E-02: SITEWORK & UTILITIES

A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

- Technical Specification Sections:

Division 0	Bidding and Contract Requirements
Division 1	General Requirements
Section 024100	Site Demolition
Section 033000	Cast in Place Concrete
Section 116833	Baseball/ ~~Dugout~~ Field Equipment (Addendum No. 1)
Section 116834	Athletic Field Equipment
Section 220500	Common Work Results for Plumbing
Section 221113	Facility Water Distribution Piping
Section 312000	Earth Moving
Section 312300	Excavation & Backfill for Pipelines and Structure
Section 321216	Asphalt Paving
Section 321313	Concrete Paving
Section 321800	Synthetic Turf Shock Pad
Section 321813	Synthetic Turf Carpet
Section 321814	Subgrade and Stone Aggregate Drainage Layer
Section 321824	Running Track Surfacing
Section 323113	Chain Link Fences and Gates
Section 328000	Site Irrigation
Section 334100	Storm Utility Drainage Piping
Section 329200	Grass Athletic Field Construction
Section 321823.26	Natural Grass Athletic Field Surfacing (Addendum #3)

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Provide sitework, storm, sanitary and water utilities, concrete and asphalt paving, striping, curbs, walks, signage, exterior concrete steps and ramps, sod and topsoil/seeding. This Contractor shall include in the Base Bid the cost of remobilization, cleaning and tack coating the asphalt base course in order to install the asphalt top coat.
2. **This contract to include all sidewalks and exterior concrete. The building concrete as shown on the structural drawings is provided by Contract E-03 Concrete and Reinforcing. (Addendum No. 1)**
3. **This contractor shall provide the excavation, concrete and backfill associated with the entrance sign drawing FA-512 and the external signage at the building patio drawing FA-512. This includes topsoiling and seeding at the areas once completed. (Addendum No. 1)**
4. Work related to Phase 2 and Phase 2A are to be included in this contract scope. (including attachment drawings)

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5. **This contractor to provide the concrete patio as reflected on the drawing C113 and drawing FA-512 included in Addendum #3. Provide this work as part of your base bid. (if the paver section Alternate #9 is accepted you will provide a credit for you patio concrete and Contract E-04 Masonry will provide the paver section complete. (Addendum #3)**
6. Demolition of the existing HS is not included in this contract. Contract E-01 will perform that work. This contractor is responsible for coordinating with the contractor demolition contractor (E-01) as it relates to the scope of your work. **Refer to Attachment "D" for demolition phasing. (Addendum No. 1)**
7. This contract shall remove all curbs, sidewalks, pads, paving, asphalt etc. throughout Phase 2 and 2a excluding work within the existing building footprint. **This includes the concrete sidewalks shown on drawing FA-571 Detail A4 typical for all similar conditions. (Addendum No. 1)**
8. Provide identification and removal of all site utilities, electric, water, sanitary, storm and gas as required by the contract documents and in order to perform your contract scope of work. This scope includes removal of all utilities (electric, water, gas, storm water , sewer) to within 5 feet of the existing building and outbuildings. The demolition contractor then removes the rest.
9. Provide dumpsters as required for the scope of work of your contract. The CM and Owner will not provide any dumpsters for this contract. Waste materials such as asphalt paving, concrete debris, rubble, etc. may not be stored on site for removal later. All debris must be removed from site as it is displaced.
10. This contractor to supply their own source of power and water for the scope of work included in this contract. No power or water will be provided by the Owner or CM
11. This Contractor shall visit the site of the proposed work, fully acquaint and familiarize themselves with the conditions as they exist and the character of the operations to be carried out under the proposed contract and make such investigation as they may see fit so that they shall fully understand the facilities, physical conditions and restrictions affecting the work under the Contract. Claims for additional compensation and/or extensions of time because of Contractor's failure to familiarize themselves with all conditions which might affect the work shall not be allowed.
12. Provide all site survey and layout of this contract work from a licensed surveyor. This work includes, but not limited to, accomplishing cuts and fills, locating utilities, layout of roads and walkways, and establishing site boundaries. Benchmarks and control points will be established by the CM.
13. Furnish and install all site signage. This includes all traffic, pedestrian and School related signage not mounted on buildings, including fire lane curbing paint and/or stripping and signage as required by contract documents and applicable codes.
14. Before ANY excavation work is to commence, the Contractor/Excavator shall contact the utility companies or utility owners and advise them of the proposed work and ask them to mark the location of the underground utility installations. This notification shall be done within established or customary local response times. If the work is on private property and the utility company will not mark out the utilities, the this contractor will hire a private locating service to mark the utilities. The report generated

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from the sub-surface private locating firm shall be provided to EDiS as a project submission. Once the utilities are located and marked, the Contractor/Excavator will excavate by hand or use a vacuum truck to expose the utilities and record the exact location and elevation of the utilities. The Contractor/Excavator must submit the Excavation Permit to EDiS Company verifying their assurance of communication with the utility companies or utility owners. The Contractor/Excavator must follow State, Local, and Federal Guidelines prior to proceeding with excavations. The Contractor/Excavator will have these marks restored as long as there is work to perform. Once the Contractor has installed new utilities, they will provide to EDiS Company an as-built drawing, within 7 days, showing the exact location and elevation of the utilities. The installing Contractor will be responsible for locating and marking these utilities for other contractors that may have work in the same area.

15. Provide all required water service piping and final connection indicated in Phase 2 and 2A.
16. This contract shall provide a complete irrigation system as identified on the contract documents and specifications. **Water to be provided by the well systems currently installed at each system location. (Addendum No. 1)**
17. This contractor shall coordinate with the sprinkler and plumbing contractor to flush all mains into buildings.
18. Provide all sanitary and storm sewer work, including relocation of existing lines, man holes and structures as necessary. Include all required inspections as required by local code authorities. Include all permits necessary for your work. This contractor to include a full camera/video for all sanitary and storm lines/structures for submission and review by the CM, design team and governing authorities. Contractor shall provide imported structural fill material for all new utility trench backfill. Material shall conform to the requirements identified within the contract documents. AASHTO #10 screenings are also an approved material for utility trench backfilling.
19. Provide fire supply piping including fire hydrants and loop. Color code fire hydrants as required by the local jurisdiction based upon water pressure. Provide fire lane striping including painting of adjacent curbs as required by local jurisdiction having authority.
20. Provide site amenities and steel pipe bollards and decorative bollards, bike racks, flagpoles, manual and automatic gates (including associated gate hardware, **coordinate with security and access controls.**) **(Addendum No. 1)** Include excavation and concrete to support these amenities as shown in the project documents and required by manufacturer's instructions. This contractor shall provide "all" bollards at the field house and all outbuildings as well as site bollards.
21. **Provide the work associated with Section 129300 Site Furnishings. (Addendum #2)**
22. Provide all flag poles, flag poles foundations, anchor bolts, excavation and grading associated with their installation.
23. Provide Baseball field equipment and athletic field equipment as per documents.
24. Provide all permanent fencing (chain link and ornamental) including gates and gate hardware. Provide manual swing arm gates and automatic gates and sliders as indicated in documents.

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25. **Furnish and install and maintain a concrete washout station for the work or your contract and all other subcontractors until the completion of the project. (Addendum No. 1)** You are responsible for the maintenance and DNREC upkeep of the washout station whether you are actively working on site or not. Remove this item at conclusion of project and provide the required final site work, seeding, sodding, curbs, etc. indicated on finished drawings. Provide signage to identify concrete wash out areas.
26. Furnish, install, maintain and remove sediment control system including sediment control plan. Maintain sediment control until substantial completion is established by DNREC. Repairs, revisions and adjustments required by the weekly CCR reports is the responsibility of this contractor.
27. This Contractor shall, in cooperation with utility companies, remove or cause to be removed all light and power poles if required to be removed, at such time as the services utilizing said poles are no longer required. Remove existing utilities and structures (water, storm, sewer, gas, electric etc.) from their source to 5' outside of existing building footprint. Coordinate shut-off with utility companies, cut and cap as required by governing agency. Patch existing manholes where existing utilities are removed, in accordance with DelDOT and NCCo regulations.
28. If required, this Contractor shall relocate power or light poles, fire hydrants, traffic signs or signals and similar utility and public service items in use and shall cooperate with all governmental agencies having jurisdiction over such items so as not to interfere with the services of such governmental agencies.
29. Street openings made for the shutting off or tapping of utility lines or for any other purpose shall be backfilled, tamped and the surfaces restored in accordance with the requirement of applicable local codes or to match existing; whichever is greater.
30. Utility equipment belonging to the utility companies, if to be retained by these companies, will be removed from the site by the company owning the equipment upon notification by this Contractor.
31. Any damage to public property, private property, or to utilities due to demolition operations, or the Contractor's neglect, shall be corrected by this Contractor, in a manner approved by the Owner and the parties whose property has been damaged, all at no additional cost to the Owner.
32. All clearing, grubbing and removal of vegetation, trees, roots and stumps whether indicated on documents or not. A site visit to review existing areas within Phase 2 and Phase 2A prior to bidding is required.
33. Topsoil stripping and stockpiling on site. Respread topsoil from the established topsoil stockpiles and fertilize as specified in the civil drawings. The topsoil must be **triple screened (Addendum No. 1)** to remove all inorganic materials in excess of ¾ inches or import material certified as triple screened. Prior to seeding, this contractor is responsible to have the topsoil tested and to supply and install amenities (fertilizer, lime, etc.) as required by the test report. Provide temporary and permanent stabilization grass seeding at all areas following the completion of construction activities. This contractor is responsible for all weeding, watering, fertilization, and grass cutting to ensure 100% grass growth in the entirety of these areas until permanent certificate of occupancy is approved, including meeting all DNREC approvals and the areas are accepted by the Owner.

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34. Contractors should carefully review the soil borings as they relate to the extent of rubble to be removed and other man made obstructions. Saw cutting and removal of sidewalks, curbs, etc. in the performance of work is this Contractor's responsibility.
35. Provide, maintain, and remove stabilized construction entrances (SCE). Furnish and install wash station, labor to wash tires, clean and drain the area as required before vehicles leave the site daily. Clean tires and tracks of all vehicles before leaving the construction site. Wash station will be utilized by other contractors and will be removed only when directed by EDis. Furnish and install Non-freeze Hose Bib, water line, valve box, drainpipe etc. as required to provide a fully functioning tire wash station for the projects use. Provide (2) 50 heavy duty hoses and one brass nozzle for CM's use.
36. Protect all existing trees to remain within the limits of construction. Includes all SAP requirements. (sensitive area protection)
37. All tree removal, stump removal and grubbing removal as identified on contract documents is the responsibility of this contractor, complete.
38. Provide a temporary water means for other trades to utilize. Include all costs associated with metering from local utilities as well as valves and hoses for contractors to utilize. The Construction Manager will not provide this service.
39. This contractor shall provide, maintain, refurbish and remove ~~2000~~ 3000 (Addendum No. 1) linear feet of stoned roadway from the Stabilized Construction Entrances, 25'-0" wide. Road shall consist of fabric, 10" of #3 stone for the length of the road and the means to compact it. The location will be determined by construction manager. Include removal of temporary stone road from site upon request from construction manager. This work is in addition to the construction entrance identified on the contract documents.
40. Provide in base bid, the cost to provide, maintain and remove upon construction manager direction, a total of 2 temporary crane pad's: each a 35'x35' (Addendum No. 1) stoned area. Pads shall consist of fabric, 10" of #3 stone for the area of the pad, and the means to compact it. Include removal of temporary stone pads from site upon request from construction manager.
41. Provide in base bid, the cost to provide, maintain and remove upon construction manager direction, a temporary stone parking area that is 150' X 150'. Area shall consist of fabric, 10" of Crushed concrete or crush and run stone for the area of the pad, and the means to compact it. Include removal of temporary stone pads from site upon request from construction manager.
42. Rough grading for area defined on site drawings for building, lawn areas, bituminous roads, parking and walkways. Preparation of subgrade for building slabs, walks, pavements, grass fields, baseball and softball fields Etc.
43. Sitework contractor is to provide rough grading for area defined on site drawings for building, lawn areas, bituminous roads, parking and walkways. Preparation of subgrade for slabs, walks, and pavements. The Sitework Contractor to extend the bulk excavation 10' outside building plan in order to facilitate foundation construction and maintain safety requirements. Written acceptance of the building pad condition will be provided by the concrete contractor before foundation work proceeds. The Concrete Contractor will be responsible for laying out all concrete work as shown on the structural and architectural drawings. Once the Concrete Contractor has accepted this work it will be

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the responsibility of the Concrete Contractor to maintain and dewater the building pad and all excavations until the concrete work is complete and backfilled. The Concrete Contractor and Sitework Contractor are to coordinate this procedure so that there are no additional costs to the Owner for additional excavation or concrete. Spoils left after backfilling of foundations is complete are to be left outside the building perimeter by the concrete contractor and neatly piled in a single location for each building area. The site contractor will then remove the spoils off site unless directed by the CM to spread on site (Include costs to move off site)

44. Backfilling as detailed below is the responsibility of this Contractor. Soil types shall be in accordance with Del Dot standard specifications.
45. The use of this on site material shall conform with the compaction requirements as specified and identified in the Geo-Tech reports, civil drawings and specifications. The intent is to utilize the onsite materials to establish grades and construct the building pad. It is the sole responsibility of this contractor to evaluate the soil information provided and determine if the soil will be acceptable to meet the structural fill requirements identified, when excavated and placed at the time of year indicated in the bidders schedule. If sufficient amounts of suitable fill material are not found within the limits of disturbance (LOD) the contractor shall be responsible to purchase, deliver and install off site fill materials to allow the building pad, Stadium, parking areas, driveways and site grades to be achieved. It is this contractor's responsibility to restore all areas disturbed by harvesting operations completely. It is the responsibility of this contractor to understand fully the existing soil conditions and how they can be utilized to achieve grades within the project schedule timeline . The contractor may request permission test/review the soils in the field prior to bidding.
46. This contractor **shall provide off site fill that meet the project specifications, to establish the grades for the field house pad, stadium turf and track areas as well as the bleacher locations.** (Addendum No. 1)
47. All structural soils that are to be stock pile on site shall be covered as the stockpile is being created and them kept covered as needed to insure the integrity of the materials (keep it dry)
48. Provide all concrete curbs, sidewalks, pads and ramps, including bituminous joint filler. All backfilling at concrete curbs, sidewalks, pads and ramps shall be flush with top of concrete. Include all stone bedding as detailed on the contract documents. Curb excavations shall be bedded with 4" of crush and run stone material prior to installation of the concrete curbs.
49. Provide curb cuts, depressions and filter strips as designated.
50. Provide all unloading and material handling for the work of this contract.
51. Provide all concrete bumper blocks at parking areas.
52. Provide all bituminous paving to include but not limited to drive lanes, parking lots, bus parking, paved islands, pathways etc.
53. This contractor to include in the base bid the cost associated with installing the base course on the drive lanes and parking areas prior to the scheduled installation of the top coat. Include remobilization, cleaning, tacking etc. as necessary to prepare utilized base course for final paving top coat.

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54. Provide all concrete paving as indicated on the contract documents.
55. Millings may not be used as a substitute for stone base.
56. This Contractor will provide all pavements markings, fire lane signs, and traffic signs.
57. The certified construction reviewer (CCR) will be provided by the Owner. Review controls on a weekly basis and complete repairs to stay complaint with DNREC & CCR requirements.
58. Furnish, install and remove approximately ~~3000~~ **4000 (Addendum #3)** linear feet of temporary construction fence required. The fence shall consist of new 6' high #9 gauge galvanized chain link fence with top rail and bottom tension wire. Provide (2) 12' wide gates. The posts shall be installed in the ground. This fence is required to be in-place for the duration of the project. Maintain this work until Substantial Completion of this project. At the end of the project remove the fence, patch and repair the finished surfaces to a like-new condition. Provide black wind screen material for all areas of the temporary fencing.
59. Proof rolling of limit of excavation prior to fill operations, coordinate all work with the CM and the Geo-Tech engineer assigned.
60. All utilities shall be brought to within +/- 5 feet of the building line by this Contractor. The connection and all utilities from +/- 5 feet and into the building shall be by others. This does not include the storm water line; this contractor shall tie in the storm water to the building.
61. Temporary maintenance standby labor such as for temporary water, temporary power, temporary light and the like where required due to this Contractor's work is to be included within the Contract Price.
62. Provide perimeter protection of all excavated areas until suitably backfilled. Fencing and posts is required; no other method will be acceptable. "Caution" tape is not acceptable protection.
63. ASPHALT CEMENT COST ADJUSTMENT
 - a. Payments to the Contractor shall be adjusted to reflect increase or decreases in the Delaware Posted Asphalt Cement Price when compared to the Project Asphalt Cement Base Price, as defined in these Special Provisions.
 - b. The Delaware Posted Asphalt Cement Price will be issued monthly by the Department and will be the industry price for Asphalt Cement, F.O.B. Philadelphia, Pennsylvania.
 - c. All deviations of the Delaware Posted Asphalt Cement Price from the Project Asphalt Cement Base Price are eligible for cost adjustment. No minimum increases or decreases or corresponding percentages are required to qualify for cost adjustment.
 - d. Actual quantity of asphalt cement qualifying for any Asphalt Cement Cost Adjustment will be computed on the basis of weight tickets and asphalt percentage from the approved job mix formula.
 - e. For Recycled Hot-Mix the asphalt percentage eligible for cost adjustment shall be only the new asphalt cement added to the mix.
 - f. The Asphalt cement cost adjustment will be calculated on grade PG 64-22 asphalt regardless of the actual grade of asphalt used. The Project Asphalt Cement Base Price for the project will be based on the August 1st price posted on DelDOT's website.
 - g. If the Contractor exceeds the authorized allotted completion time, the price of asphalt cement on

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the last authorized allotted work day, shall be the prices used for cost adjustment. However, if the industry posted price for asphalt cement goes down, the asphalt cement cost shall be adjusted downward accordingly.

64. Provide street cleaning of mud, etc. on a daily basis when actively performing work on the site.
65. Include all costs for temporary barricades, arrows, pedestrian protection, flagmen, etc. required to complete the work.
66. Base bid shall include all standard dewatering measures, utilizing trenches, crocks, stone and portable pumping measures. This contractor to provide these measures as required to perform their work. Well pointing if necessary, will be handled as a negotiated cost by the Owner.
67. Furnish and install (5) dewatering crocks within the building pad or stadium areas as directed by construction manager. Dewatering crocks shall consist of 2' diameter, 3' long perforated pipe with a #3 stone base. This contractor shall remove and fill the dewatering crocks when directed by construction manager.
68. This Contractor shall provide and maintain all temporary access roads as detailed in Contract Documents, until completion of project.
69. Provide all plant material and all associated work including, but not limited to, staking, watering, weeding, fertilizing, etc.
70. Planting soil mix in beds and topsoil to be provided by the Sitework Contractor. Provide all additional soil mix required to set plant materials and final grading. (triple screened topsoil is required in all areas)
71. Provide filter fabric, weed, check and mulch at all planting areas.
72. Provide sod at all grass areas surrounding Fieldhouse, ponds and adjacent driveway islands. Include maintenance, care, watering and replacement as necessary up to the owners occupancy and an additional (3) months of this service shall be provided.
73. Provide specified warranties, general two year and all extended warranties.
74. Provide all dewatering of excavations until final acceptance.
75. Provide temporary shoring to support and maintain adjacencies and excavations per OSHA standards.
76. This contractor must provide a silica exposure plan that meets or exceeds the new 2017 silica OSHA requirements before any work can commence. At a minimum, it must be implemented into the company safety plan, include all monitoring, testing, limits exposure, provide respiratory plan and/or equipment modifications such as adding water to equipment during exposed work and keep records of exposure.
77. Provide As-Built Drawings both in electronic format and a hard copy.
78. Provide pricing for alternates as described in Section 012300-Alternates.

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79. Provide perimeter stormwater drains at all buildings (including within 5' of the building perimeter). This contractor to provide the final connections. Provide downspout adaptors and cast iron boots, coordinate with roofer for the correct downspout size. Provide splash block where called for.
80. Provide all BIM services as specified in Section 013700 BIM Execution Plan. As part of the coordination process all contractors are responsible for obtaining a Revizto license. The cost of this license is \$1,500 and shall be included in your base bid proposal.

Stadium Field, Running Track, Courtyard Turf Areas, Baseball and Softball Fields, Bleachers Areas.

81. This contractor shall provide all work associated with the stadium turf field, running track and athletic field equipment. This shall include but not be limited too, all subbase construction, concrete curbs, drainage systems, concrete paving, fencing , gates, sidewalks, shock pad, turf, running track base and surface, athletic equipment and associated work to provide completed system.
82. **This contractor shall provide all work associated with Section 321823.26 Natural Grass Athletic Field Surfacing. (Addendum #3)**
83. Provide all practice fields, baseball and softball fields, shot put area, fencing, gates, back stops and all other athletic accessories identified in the contract documents.
84. This contract owns all chain link fencing and ornamental fencing, gates and hardware.
85. This contractor shall coordinate the shop drawings and submittals for the turf field and track. This includes coordinating the specific sports lining for each area with the CM and owner for final review.
86. Provide all concrete foundations, slabs and stones areas as required for the **bleachers and grandstands as well as the mobile bleachers at field areas. (Addendum No. 1)** Including excavation, backfill, concrete, reinforcing clean up and fine grading and sodding of disturbed areas. **This includes asphalt paving under all bleacher areas. (Addendum No. 1)**
87. Provide Synthetic turf, including subbase preparation, subbase completed, shock pad, stone aggregate drainage layer, concrete curbs, and clean up after installation area as directed by the contract documents. This applies to the (include all required soil stabilization at subbase)
88. The Turf Shock Pad shall be delivered and kept sealed until use/installation
89. Provide all unloading and material handling for this work.
90. This contractor shall provide all Bio-Retention areas as indicated on the contract documents complete. Including all planting's, Bio-Media materials, etc. and maintenance of planting as identified. This contractor shall provide the required As-Built for submission to DNREC within 1 week of completion of this work. All ponds shall be sodded where grass areas are indicated.

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91. The existing sediment pond shall be filled as per DNREC's approval, include structural fill drainage material compacted to 95% of ASTM D698 to complete this area. Provide topsoil and sod at completion.
92. This contract shall provide the concrete "mow" strip adjacent to the field house perimeter. Detail provided on sheet C-500
93. All sidewalks and paved areas indicated on the contract documents are part of this contractors scope.
94. This contractor shall provide all manual swing arm gates complete as Detail shown on sheet C-501 and located on the contract documents.
95. Provide a \$250,000 allowance soil remediation to be allocated by the Owner/Construction Manager. All unused allowance will be returned to the owner.
96. Provide a \$100,000 allowance for work to be performed at the direction of the Owner/Construction Manager. All unused allowance will be returned to the owner.

CONTRACT NO. E-03: CONCRETE AND REINFORCING

A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

- Technical Specification Sections:

Division 0	Bidding and Contract Requirements
Division 1	General Requirements
Division 03	Concrete
Section 033000	Concrete
Division 07	Thermal and Moisture Protection
Section 071300	Sheet Waterproofing
Section 072100	Thermal Insulation
Section 072600	Under-Slab Vapor Barrier
Section 079100	Preformed Joint Sealants
Section 079200	Joint Sealants
Section 312000	Earth Moving
Section 312300	Excavation and Backfill for Pipeline and Structures

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Provide concrete footings, foundations, foundation walls, piers, wall footings, grade beams, slabs on grade, slabs on deck, structural pads, equipment pads, dumpster pads etc. and all excavation, backfill, stone subbase, forms, and reinforcing required. Note: the following buildings are included in this scope of work, Field House, E1, E2, E3, E4, E5, E6, E7, E6S and E7S. (review Alternate section as it applies)
2. This Contractor will be responsible for laying out all concrete work as shown on the structural and architectural drawings and certifying the layout. Provide certification in writing to CM for their records.
3. This Contractor to furnish and install reinforcing steel, admixtures, curing compound, sealers, accessories, bolsters, ties and braces as required in the Contract Documents and for the performance of the work of this contract.
4. Provide Preformed Joint Seal systems and all Joint Sealants related to work of your contract. **Caulking of the interior foundation slab joints at sealed concrete floors provided by Contract 21 Joint Sealants. (Addendum No. 3)**
5. This contractor shall provide installation of sleeves required for MEP lines, under footings, below frost walls, under thickened slabs, etc. This includes all excavation and backfill required for these installations. (sleeves will be supplied by the contractor installing the services in BP-E) Coordinate with Arch and MEP documents for full extent of this work.
6. Provide all door stoops, pads, entrance/exit concrete complete as detailed on the structural and architectural documents. This will be out of sequence work, contractor to include (5) re-

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mobilization to perform work out of sequence, this shall include premium costs for short load concrete pours, concrete pumps, contractors' equipment costs and misc. small tool expenses. For each mobilization the contractor shall communicate in writing to the CM that they are remobilizing and utilizing one of the (5) remobilizations included in their base bid. Until all (5) mobilization as described are completed, no claims for costs related to this work will be accepted.

7. Provide exterior concrete slabs, turndown slabs, equipment foundations and housekeeping pads as shown on the contract documents.(all contract documents) This will be out of sequence work, contractor to include (3) re-mobilization to perform this work out of sequence, this shall include premium costs for short load concrete pours, concrete pumps, contractors' equipment costs and misc. small tool expenses. For each mobilization the contractor shall communicate in writing to the CM that they are remobilizing and utilizing one of the (3) remobilizations included in their base bid. Until all (3) mobilization as described are completed, no claims for costs related to this work will be accepted. **The exterior concrete slabs are indicated as structural on the drawings and are provided by this contractor. The Site contractor would own the standard sidewalks which are indicated as "civil" on the drawing notes. Provide the exterior slab as shown on FA-541 Detail A1 typical at all similar conditions. (Addendum No. 1)**
8. Provide thickened slab footings at all interior CMU walls as shown on the structural and architectural drawings including all notes and the contract specifications. This contractor owns the coordination and verification of all thickened slabs, haunches etc. whether identified on structural or architectural documents, including the contract specifications.
9. Underslab vapor barrier, insulation, reglets, waterstops, control and construction joints (including required caulking at control and construction joints).
10. Provide foundation wall insulation and insulation under slabs. Include backfill of all foundation walls as detailed. Stone under slab to be provided by this contractor. Include at no additional cost re-dressing the stone after the MEP contractors have installed their UG work.
11. Placement of related items furnished under other Specification Sections.
12. Anchor bolts and leveling plates to be installed by this Contractor and furnished by the Structural Steel contractor. Installation within required tolerances. Anchor bolt assemblies to be placed with templates only. This contractor shall include grouting of the leveling plates.
13. Contractor shall supply signed/sealed engineered drawing as-builts to steel the erector for coordination prior to steel placement. This engineered sheet shall be reviewed by the CM, Steel contractor and this contractor at a site meeting in person before acceptance by all parties. Steel erector must sign off that the placements are accurate and accepted. If there are discrepancies; ownership of the error, corrective actions and costs of the repairs shall be identified and assigned to the responsible contractor.
14. All blockouts and embedments required by plans and specifications.
15. This Contractor is responsible for grouting all structural steel base or leveling plates.
16. Include all weather, frost protection, and water pumping as required. This Contractor is also

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responsible for the premiums required for hot water, heated aggregate and admixtures for cold weather concrete.

17. Coordinate the "Notch" in the concrete slabs to allow for a future Contractor to easily install expansion joint details.
18. Provide dewatering after acceptance from Sitework Contractor until re-acceptance by the Sitework Contractor.
19. The sitework contractor is to provide a flat, compacted surface at subgrade prior to the start of foundation layout and installation. This contractor shall furnish, install and maintain the stone underslab for the SOG area and structural pads. Written acceptance of the building pad condition will be provided by the concrete contractor before foundation work proceeds. Once the Concrete Contractor has accepted this work it will be the responsibility of the Concrete Contractor to maintain and dewater the building pad and all excavations until the concrete work is complete and backfilled. The Concrete contractor is to provide access to foundation excavations for the Masonry contractor. Concrete contractors own dewatering during masonry and waterproofing work and backfill after foundation masonry work is complete. Spoils left after backfilling of foundations is complete are to be left outside the building perimeter by the concrete contractor in pre-determined stockpile location in accessible areas. The material will then be gathered by the sitework contractor and spread on site. Concrete Contractor will also be responsible for additional excavation and backfilling within the building as may be required to accommodate the sloped floors, varying slab thicknesses, depressed slabs and grade changes. Close coordination with the Sitework, Masonry, Mechanical and Electrical Contractors is required.
20. This contractor shall re-grade the stone slab areas to prepare for the vapor barrier installation after "all" other contractors have installed their UG work. This includes but is not limited to UG work associated with MEP trades.
21. This contractor shall provide all de-watering measures as required to perform the work of their contract. Refer to Geo-Tech reports for estimated ground water depths and prepare your bid accordingly.
22. Additionally, over and above de-watering for your course of work, provide (2) 2'x2' crocks, stone infill and sloping of graded area to allow for general de-watering as directed by CM. Areas of use to be coordinated with Superintendent on site.
23. This contractor shall provide all excavation to depths and areas required to allow proper forming, pouring and stripping of all concrete work identified on the contract documents. (All contract documents, not just Structural's)
24. Provide and maintain perimeter fall protection at excavated area per OSHA standards. Orange barrier fencing shall be utilized, no caution tape will be allowed.
25. Provide certified anchor bolt verification drawings to the Construction Manager for review prior to steel erection.
26. Asphalt concrete paving and Portland cement concrete paving, sidewalks and curbs shall be

provided by others.

27. All concrete testing will be completed by the Construction Manager; however, it will be the responsibility of this Contractor to furnish all samples.
28. Provide off site disposal of all unsuitable excavated materials.
29. Construction Manager to ensure that FF/FL compliance is verified by an independent testing agency within 48 hours of completion of pour, per ACI (Section 8.15.4). A report must be provided to the concrete contractor within 72 hours of pour per ACI to allow corrective action.
30. Provide specified sloping for floor drains/trenches as detailed (Drains to be furnished by Mechanical Contractor.) This contractor to communicate and review drain sloping with CM before each pour.
31. This Contractor shall include the finishing of concrete slabs around all stub ups, conduits, drains etc. as indicate on project documents. The items will consist of electrical boxes, stubbed conduits, mechanical piping and electrical and technology conduit stubs, etc. Include finishing around (30) un-identified items within your base bid.
32. This Contractor shall also include all work included in finishing the concrete floors to a minimum of (25) floor drains and or trench drains. Include all sloping and beveling to create a positive flow to the drains. Sloping to be reviewed with the CM prior to each pour.
33. This Contractor shall provide written documentation that all concrete slabs are within the tolerance required by the contract documents.
34. There shall be no minimum number of square feet required or mandated by the contractor for S.O.G pours.
35. Provide all foundation and below slab waterproofing. Provide waterproofing at blind side of concrete footings and all foundations. (sheet waterproofing and protection board included) Include all testing as specified. This contractor shall provide de-watering of the areas to receive waterproofing as well as cleaning and drying of the surfaces prior to application.
36. This contractor owns coordinating all slab depressions identified on the documents with the products, flooring, insulation etc. shop drawings and layout drawings for each material that will be installed in the recess. A pre-install meeting will be held to review this information before each depressed pour.
37. Provide Column diamond protection after floor pours are completed at all recessed columns to meet OSHA Requirements. 1926.502(i)(2) All other covers shall be capable of supporting, without failure, at least twice the weight of employees, equipment, and materials that may be imposed on the cover at any one time.
38. Provide all means of transporting concrete including, but not limited to: pump trucks, cranes, ramps, chutes, buggies.

39. Provide at least 48 hours' notice prior to any delivery. All deliveries are to be between 7:00 AM and 3:30 PM.
40. This is not a secure site. All contractors are responsible for concealing, locking and/or removing any materials on a daily basis. NCCVT and EDiS will not be responsible for any lost tools, materials or equipment.
41. This contractor must provide a silica exposure plan that meets or exceeds the silica OSHA requirements before any work can commence. At a minimum, it must be implemented into the company safety plan, include all monitoring, testing, limits exposure, provide respiratory plan and/or equipment modifications such as adding water to equipment during exposed work and keep records of exposure.
42. Provide daily fine cleanup of the work is the responsibility of each individual Contractor which includes broom cleaning of their debris as required. Daily Fine clean up, on a daily basis, shall be defined as those means/methods utilized to perform the daily cleaning tasks without producing dust, noise and stacking of stored materials. Furnish fine clean up on a daily basis. All debris must be removed from the work area at the end of each workday to the appropriate dumpster. Cleaning of roadways shall be included and performed daily while this contractor is on site performing work of this contract.
43. Provide generators and other means for temporary services for the completion of your work.(CM/Owner will not provide temporary power)
44. All materials excavated for installation of footings and foundations shall immediately be protected with appropriate moisture protection. This Contractor owns protecting excavated backfill material from exposure to wet conditions.
45. Provide pricing for alternates as described in Section 012300-Alternates.
46. This contractor shall include an allowance amount of \$30,000 within the base bid for work to be identified by NCCVT and the CM. All unused portions of this allowance to be returned to the owner.

CONTRACT NO. E-04: STRUCTURAL STEEL, JOISTS, DECK AND MISC. METALS

A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

- Technical Specification Sections:

Division 0	Bidding and Contract Requirements
Division 1	General Requirements
Division 05	Metals
Section 051200	Structural Steel
Section 052100	Steel Joist
Section 053100	Steel Deck
Section 055000	Metal Fabrications
Section 055133	Metal Ladders

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Provide structural steel, joists and metal floor and roof decking.
2. Provide all miscellaneous steel as required by the contract documents including but not limited to gauged steel support angles, metal stairs, metal ladders, lintels, etc. Loose lintels will be delivered only, all other Misc. Metals items and gauged angles will be furnished and installed. Note: the following buildings are included in this scope of work, Field House, E1, E2, E3, E4, E5, E6, E7, E6S and E7S. (review Alternate section as it applies)
3. All lintels for CMU and Brick walls will be steel; no concrete lintels will be utilized.
4. Furnish Misc. Anchor bolts and plates as required for the bleacher system installation.
5. Furnish anchor bolts and leveling plates to the Concrete Contractor for placement in concrete piers.
6. Furnish Cable protection and flags as required during and after erection of steel. (flags must be installed as cable is installed) Provide warning lines with flags for swing radius and work areas (include Signage)
7. Field check all anchor bolts prior to beginning erection and sign the anchor bolt survey drawing provided by the concrete contractor.
8. Roof sump pans and related work, including supporting steel frames, braces, brackets etc. related to roof drains. (as indicated)
9. Framing out for openings (roof drains, mechanical openings, access hatches, etc.). Assume opening frames will be field installed. This contractor shall provide "all" floor opening and roof deck opening frames, angles, reinforcing, clips, welding etc. as indicated on the contract documents.
10. Prime paint systems, galvanizing, and related finishing of steel items, including touch up. Provide

11. Furnish, install, maintain and remove perimeter safety steel cables at roof level to conform with all OSHA standards for all trades. Install flagging on cabling at time of installation.
12. The Steel Contractor will own all connections to masonry whether they are field welds or shop welds. Conditions that require in field welding and assembly are the responsibility of this Contractor. Field coordination with the masonry installer will be this Contractor's responsibility.
13. All steel testing will be the responsibility of the Construction Manager; however, this Contractor will co operate with the testing agency in the inspection at the fabrication shop and in the field.
14. Layout, installation and alignment of attachments at the slab edge condition.
15. No electrical power for this contractor's equipment or welders will be provided. Electrical power to be provided as needed by this contractor.
16. Provide data and submittal information related to the Scope of this Contract signed and sealed by a Professional Engineer as required by the Contract Documents.
17. This Contractor shall fabricate, weld and install all reinforcing anchors that connect the structural steel to the masonry systems. Provide all shop fabrication, field installation and field welding regardless of the weld symbols.
18. This Contractor shall include all necessary staging, rigging, matting and remobilizations to accommodate this erection sequence. Sequencing of work will need to be coordinated with CM and other trades.
19. Remove, modify, and replace the plywood covers installed by the concrete contractor at all Diamonds during the erection of steel, as required to meet OSHA requirements.
20. This is not a secure site. All contractors are responsible for concealing, locking and/or removing any materials on a daily basis. EDiS will not be responsible for any lost tools, materials or equipment.
21. This contract shall include in their bid the necessary crews to complete the work as per the project schedule. Provide additional crews as required to maintain schedule at no additional cost to the project.
22. Provide all BIM services as specified in Section 013700 BIM Execution Plan. As part of the coordination process all contractors are responsible for obtaining a Revizto license. The cost of this license is \$1,500 and shall be included in your base bid proposal.
23. Provide pricing for alternates as described in Section 012300-Alternates.
24. This contractor shall include an allowance of \$20,000 for work to be identified and assigned by the owner/CM. Any unused portions of the allowance will be returned to the owner.

CONTRACT NO. E-05: UNIT MASONRY

- A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

Technical Specification Sections:

Division 0	Bidding and Contract Requirements
Division 1	General Requirements
Section 033000	Concrete (coordination)
Section 042000	Unit Masonry
Section 044316	Stone Fabrications
Section 070553	Fire and Smoke Assembly Identification
Section 072100	Thermal Insulation
Section 072500	Weather Barriers
Section 072640	Sprayed Polyurethane Foam Insulating Air Barrier
Section 076200	Sheet Metal Flashing and Trim
Section 078400	Firestopping
Section 079100	Preformed Joint Sealers
Section 007900	Joint Sealers

This contract provides and includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Provide masonry work indicated on the construction documents, including but not limited to masonry units, cast stone, stone fabrications, reinforcing, grout, accessories and related work.
Note: the following buildings are included in this scope of work, Stadium, Field House, E1, E2, E3, E4, E5, E6, E7, E6S and E7S. (review Alternate section as it applies)
2. **Contract E-05 Masonry to provide all work associated with drawing FA-512, to include but not limited to the seat walls, grading, subbase, concrete paving and the brick pavers. Contract E-02 Site Work will provide a concrete patio at the paver area under the Base Bid work. If Alternate #9 to provide the brick paver patio section is accepted, Contract E-02 will credit back their patio concrete to the owner and Contract E-05 will provide the Alt #9 patio section complete. This includes but is not limited to, excavation, grading, compacted aggregate base, concrete slab, tack coat, bituminous sand, neoprene adhesive, pavers and stabilized joint sand.**
(Addendum #3)
3. **This contractor to provide all Masonry, Flashing, Cast Stone, Date Stone and all other accessories indicate on Drawing FA-512 dated 1/8/26. Contract E-02 Sitework will provide the foundation concrete and backfill once your foundation is in place.** **(Addendum #3)**
4. Provide work specified in Section 044316 Stone Fabrications.
5. Provide all special shape, cast stone masonry and custom masonry units as defined in the construction documents.

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6. This contract shall provide all Sprayed Polyurethane Foam Insulating Air Barrier with intumescent coatings, special paint layer per NFPA 285, and all "Self-Adhering Flashing Tape" at all locations (vertical and horizontal) behind vertical brick, block, metal panels, canopies and overhangs. The Flashing tape shall be applied to seal all exterior openings, including but not limited to doors, louvers, windows, curtain walls, storefronts etc. This includes all exterior sheathed areas, and block back up areas, whether behind masonry or not. Include spray insulation termination angles as needed for the spray foam insulation installation Coordination of work with other trades shall be required and final installation work to be coordinated with project schedule and CM. Provide a "complete system" in its entirety for this project.
7. This contractor shall include multiple mobilizations within their base bid amount to accommodate the exposure time recommendation for the sprayed insulation, special coatings and self-adhering flashing tape in all areas per the construction schedule and project phasing. (include all "Blueskin" application as required)
8. This contractor shall provide installation and coordination of sleeves required to go through any masonry walls above finished floor elev. 0.00. Coordinate with the MEP contractors for sleeves (to be provided by MEP contractor) and coordinated/installed by the Masonry contractor.
9. Provide all caulking and sealants for masonry to masonry and masonry to dissimilar materials.
Masonry control joints at exterior and interior to be provided by Contract 21 Joint Sealants.
(Addendum No. 3)
10. Integral masonry flashings, expansion joints, insulation and other related items as required.
11. Mock up as required. Provide a complete mockup of all masonry items within a sample wall to be coordinated by the CM. This contractor to provide and install the concrete footing required for the mock up. Include demolition, removal and clean up of the mock up area.
12. This contractor shall include within their bid the incorporation of **200 hours of CO OP participation** by a NCCVT student. Contractor to comply with project documents and requirements set forth in 19 del. C.ch.5.
13. Grouting of door frames at all masonry openings. Include grouting of HM vision panels in CMU.
14. Weather protection and temporary heat as required to perform the work and maintain the project schedule. This would include tenting, tarping, heating (providing fuel and equipment), installation, maintenance and removal. Kerosene is not an acceptable fuel for work within the interior spaces.
15. Layout of the work including responsibility for all elevations and dimensions as they affect other Contractor's work.
16. Lintels either required by this Contract or install loose lintels furnished by others. Include bolting or welding of lintels as per details. "All lintels will be steel, and provide by the steel contractor for your use.

17. Provide mixing stations as required to perform your work. The station locations shall be coordinated with the CM. The mixing area shall be protected as required by DNREC and it shall be this contractor's responsibility to maintain the station area at all times. Remove all components and restore area when work of this contract is complete.
18. Concrete fill/grout at all masonry units as identified.
19. Provide a concrete dumpster to collect and remove the spoils from all masonry grouting operations.
20. Purchasing and installing reinforcing steel in block walls.
21. Provide all fire safing/fire stopping, and continuous fire sealant at top and bottom of masonry walls as shown on the contract documents. Also include these sealants at all steel penetrations through the provided masonry.
22. This contractor shall provide the required firewall/smoke wall assembly identification for work of this contract. (labelling of the walls with fire rating)
23. Interior exposed masonry walls shall be cleaned and scraped thoroughly; a second pass of scraping and refining the cleaning shall be included in the base bid. CM to review and coordinate second pass with the masonry foreman in the field.
24. Temporary protection for final wash down/cleaning of masonry. This includes covering and protecting the windows and doors as necessary.
25. This contractor shall supply and install straw at the base of wall when work of this contract has been completed to stop splashing of mud and water on completed walls.
26. Flashing at locations indicated on drawings for your work.
 - a) Thru wall and cavity flashing below the roof line shall be by the Masonry Contractor.
 - b) Thru wall and cavity flashing above the roof line shall be by the Roofing Contractor.
 - c) Flashings at rising wall conditions shall be provided by this contractor.
27. Cutting, fitting and building into masonry work, embedments provided by others. Coordinate all work with other trades as required.
28. Provide all firesafing and fire caulking as required for your course of work.
29. Provide masonry veneer anchors as required for your course of work.
30. Bond beams including supplying and installing reinforcing and fill.
31. Furnish and install all masonry veneer anchors where required. Welding of anchors that are not shown to be fabricated with the structural steel shall be welded in place as needed by this contractor.

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32. Masonry contractor shall supply and manage dumpsters for use in removal of masonry debris. The project dumpsters may not be used for masonry debris.
33. Mockup as required. Provide your portion of a complete mock-up of the exterior wall assembly. Coordinate with the CM.
34. Provide generators and services as required to provide temp power, water etc. as needed for your course of work. CM/Owner will not be supplying any Temporary power.
35. This is not a secure site. All contractors are responsible for concealing, locking and /or removing any materials on a daily basis. EDiS will not be responsible for any lost tools, materials or equipment.
36. This contract includes all Division 0 and Division 1 General Requirements. All commissioning requirements are identified in Division 1 and are a requirement of this contract.
37. Provide pricing for alternates as described in Section 012300-Alternates.
38. This contractor must provide a silica exposure plan that meets or exceeds the new 2017silica OSHA requirements before any work can commence. At a minimum, it must be implemented into the company safety plan, include all monitoring, testing, limits exposure, provide respiratory plan and/or equipment modifications such as adding water to equipment during exposed work and keep records of exposure.
39. Include within this contracts base bid an allowance of \$25,000 for work to be determined by owner and construction manager. Unused allowance funds to be returned to the owner.

CONTRACT NO. E-06: GENERAL TRADES-CARPENTRY, CFMF, GYP ASSEMBLIES, ACT CLGS.

- A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

Technical Specification Sections:

Division 0	Bidding and Contract Requirements
Division 1	General Requirements
Section 055000	Metal Fabrications (related work)
Section 054000	Cold-Formed Metal Framing
Section 054400	Cold Formed Metal Trusses
Section 061000	Rough Carpentry
Section 070553	Fire and Smoke Assembly Identification
Section 077100	Roof Specialties (blocking coordination)
Section 072100	Thermal Insulation
Section 072640	Spray Polyurethane Foam Insulating Air barrier (coordination)
Section 072500	Weather Barriers (coordination with mason contractor)
Section 078400	Firestopping
Section 079100	Preformed Joint Sealants
Section 079200	Joint Sealants
Section 081113	Hollow Metal Doors and Frames (coordination, handing, installation)
Section 083100	Access Doors and Panels
Section 083300	Rolling Service Doors
Section 084313	Aluminum Framed Storefronts (install frames-provide glazing)
Section 087100	Door Hardware (coordination, handing, installation)
Section 080671	Door Hardware Schedule (coordination, handing, installation)
Section 088000	Glazing
Section 089100	Louvers
Section 092116	Gypsum Board Assemblies
Section 095100	Acoustical Ceilings
Section 096500	Resilient Flooring
Section 102113	Plastic Toilet Compartments
Section 102800	Toilet Accessories
Section 104400	Fire Protection Specialties
Section 105100	Metal Lockers
Section 107316.13	Metal Canopies
Section 114000	Food Service Equipment
Section 116833	Baseball/Dugout Equipment (Addendum No. 1)
Section 116843	Exterior Scoreboards (Baseball & Softball)
~~Section 116843~~	~~Exterior Scoreboards (Football & Track)~~ (Addendum No. 1)
Section 116844	Stadium Scoreboard & Outdoor Live Display (Addendum No. 1)
Section 123600	Countertops, Backsplashes and Window Stools
Section 129300	Site Furnishings

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

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1. Provide all cold formed metal framing, sheathing, insulation, metal stud framing, gypsum assemblies and drywall as indicated on the contract documents. (includes CFM Trusses)
2. This contractor owns all contract documents, which includes but is not limited to the following areas of work, Stadium, Field House, E1, E2, E3, E4, E5, E6, E7, E6S and E7S. (review Alternate section as it applies)
3. Provide metal studs, framing, insulation, gypsum wallboard, taping, spackling and specified wall finishes. Include all trims and finish pieces for a complete installation.
4. **This contract shall provide all work related to Section 107316.13 Metal Canopies, complete. (Addendum No. 3)**
5. Provide all engineered metal truss roofing systems complete, including all delegated design requirements. (include within your base bid expedited shop drawing submissions and reviews)
6. This contractor shall be responsible to coordinate with the masonry contractor as related to the exterior wall assembly and the installation of the spray foam insulation system. installation.
7. Include fire taping and sealing at perimeter edge and as shown or indicated in the contract documents.
8. **Provide all Joint sealants as required for your work scope. Note: Contract 21 Joint Sealants will provide the caulking at HM frames on the exterior and interior, including caulking frames to floors, exterior perimeter caulking of louvers and OH doors and caulking of interior windows. (Addendum No. 3)**
9. Provide architectural expansion joint systems, including joint covers materials at concrete slab, drywall and masonry construction (interior and exterior)
10. Steel stud construction as related to the roof parapet construction.
11. Steel stud construction related to framing out for openings in exterior walls.
12. Provide secondary support framing as required.
13. Clips, anchors, supports and other accessories that interface between steel framing and steel studding and steel studding with masonry interaction.
14. Expansion systems as required for performance of your course of work.
15. Scaffolding, lifts, and all necessary equipment required for your contract's course of work.
16. Provide engineered drawings (delegated design requirements.)
17. This contractor shall be responsible for coordinating with other trades for exterior openings and layout of design features.

18. Provide labor and materials to perform the work related to all carpentry and general work.
19. Provide all glass and glazing.
20. All rough carpentry related to the exterior skin of the building and roof areas, including wood nailers and blocking, roof blocking, curb blocking, MEP blocking coordinated with MEP trades. This will include all galvanized angles at blocking locations for support as detailed.
21. All rough carpentry related to the interior of the building including blocking, wood nailers, etc. for the installation of fire extinguishers, doors, windows, toilet accessories, cabinets, toilet partitions, counter tops, AED's, rollup doors, coiling doors, and accessory blocking, etc. including fire treating as required. Provide all roof framing, wall framing and sheathing
22. Provide all counter tops, back splashes and accessories.
23. Provide and install plywood back boards on all wall areas, floor to ceiling in all electric, MDF and IDF rooms. Backboards to be $\frac{3}{4}$ inch plywood, painted one side with white Fire Proof paint and fire caulked to the walls tightly.
24. Provide blocking and anchoring for all roof ladders, TV and monitor mounts, Visual display boards, chalk, tack, white board assemblies, lockers etc. Coordinate with other trades for locations and installation direction.
25. Provide blocking for door hold opens, wall mounted closers, and wall door stops.
26. Install Aluminum storefront vision panels and provide glazing for these panels (door contractor to supply frames)
27. This contractor shall install the interactive displays as furnished by the owner.
28. Install metal doors and frames, including receipt of doors and frames at the curb side. Contractor shall receive the doors, frames and hardware and inventory immediately. This contractor responsible for safe keeping of all materials and shall provide written documentation that all materials were received. All hardware shall be secured in a fully locked and protected area. By this contractor.
29. Install finish hardware related to all doors (hollow metal, wood and coordinate keying with aluminum hardware) including receipt of hardware at the curb side. This contractor is responsible for coordinating door hardware with their work to ensure each opening is properly prepped for hardware being supplied by others. All low voltage wiring within the doors and frames to be installed by this contractor. Conduits and raceways will be provided by the electrical contractor, as well as installation of the electrical supply power and the final power connections to equipment. Final connections of low voltage wiring to hardware to be provided by the Special Systems contractor. This contractor to work with the electrical contractor and Special Systems contractor to provide a complete installation. Salto hardware will be supplied by the Special Systems contractor and installed by this contractor.

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30. This contractor shall advise the hardware supply contractor of any deficiencies or missing item immediately after initial inventory (in writing) as installation takes place. Reporting and tracking is the responsibility of this contractor.
31. All field trimming required to adjust to the existing in place conditions shall be part of this contractors scope of work. Field measuring and verification is to be included.
32. Anchoring devices, fasteners, inserts and other related items associated with the installation of the above items.
33. Provide all architectural louvers, including insulated panels etc. All louvers are to be included within this contract, they are shown on the architectural drawings and specs and referenced by MEP documents. Provide 'custom' color costs in the base bid. This contractor shall coordinate with other trades for integration of the louvers into their course of work. All material handling and on site protection of the louvers is this contractors responsibility.
34. Provide blocking and support for the Visual Display Boards and Display Case
35. Provide all Plastic toilet compartments, toilet accessories, fire protection specialties and metal lockers.
36. This contractor shall provide and install all Site Furnishings as detailed in the contract documents. Include all work related to this course of work, concrete pads, anchoring, touch up paint etc.
37. **This contractor is to provide all work associated with Section 116833 Baseball/Dugout Equipment. (Addendum No. 2)**
38. **This contractor shall provide all work associated with Section 116844 Stadium Scoreboard & Outdoor Live Display (Addendum No. 2)**
39. **This contractor is to provide all work associated with Section 116843 Exterior Scoreboards (Baseball & Softball) (Addendum No. 2)**
40. This contractor to coordinate all card reader blocking requirements with Special Systems contractor.
41. Provide Exterior Scoreboards complete, including required excavation and foundations. Provide (2) separate scheduled training sessions within your base bid) **Include an allowance of \$25,000 for the concrete foundations for the scoreboards (Addendum #3)**
42. **This contract to include an Allowance of \$40,000 for the steel support structures for the scoreboards. (Addendum #3)**
43. Provide Food Service Equipment as per contract documents. **Please refer to revised section 11400 in this Addendum #2. Contract E-06 provides all equipment as per this spec section. This includes any blocking, set up and coordination with other trades. (Addendum No. 2)**

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44. This Subcontractor shall at a minimum provided, maintained, and inspect for the length of the project, one temporary fire extinguisher for each 3,000 sq. ft of the protected building area. Travel distance from any point of the protected area to the nearest fire extinguisher shall not exceed 100 feet. In multistory buildings, at least one fire extinguisher shall be located adjacent to stairway. Fire extinguishers shall be at least 10lb, Multi-Purpose (ABC) dry chemical, UL labeled, with a rating of 3a:40bc. Maintain for the duration of the project until substantial completion to ensure coverage and compliance.
45. Coordinate electrical requirements with any automatic door operations. This contractor owns all controls, switches and wiring as required for a complete system. Power to be supplied by Electrical contractor.
46. Provide three Knox Boxes coordinated with the local fire company for installation at locations identified by the owner/CM.
47. This contractor will work with the Special Systems contract to allow the installation of harnesses, whips and connections while installing frames, doors, hardware and access controls.
48. Provide (1) scaffold stairway, to be erected to accommodate access to the roof area from the exterior of the building. Include a rental duration of 7 months.
49. This is not a secure site. All contractors are responsible for concealing, locking and /or removing any materials on a daily basis. EDiS will not be responsible for any lost tools, materials or equipment.
50. This contractor must provide a silica exposure plan that meets or exceeds the new 2017silica OSHA requirements before any work can commence. At a minimum, it must be implemented into the company safety plan, include all monitoring, testing, limits exposure, provide respiratory plan and/or equipment modifications such as adding water to equipment during exposed work and keep records of exposure.
51. Layout of the work including responsibility for all elevations and dimensions as they affect other Contractor's work.
52. Provide all work related to the building mock up, blocking, installation of door frame, doors, hardware, flashings, fasteners etc. as it relates to mocking up of the systems included in this contract scope.
53. This contractor shall provide temporary rails at all exterior opening on the building until permanent window/doors/curtainwall etc. installed.
54. This contractor shall include protective wooden covers and marking for any floor openings, holes, shafts etc. Include labelling of the covers with clear and readable markings or stickers.
55. This contractor shall provide and include all costs associated with installing temporary doors and windows at the exterior of all building (all openings)

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56. Provide wood safety barricades to OSHA required height during construction. These rails shall be installed immediately after the roof blocking is installed. These rails/barricades shall stay in place and be maintained until all activities on the roof area are complete or as directed by the CM. Coordinate removal, roof patching etc. with roofing contractor and CM.
57. Comebacks and out-of-sequence work may be required and as such should be included in your base bid proposal.
58. No power for welding equipment will be provided. This contractor shall provide portable generators, fuel, etc. to power equipment required for their scope of work.
59. Coordinate Self Sealing Flashing installation at base of wall assemblies and flashed areas. with Masonry contractor who is providing. This contract to provide any required metal flashings for your course of work.
60. ~~This contractor shall supply and install any access panels in the exterior wall assembly that are required by the contract documents.~~ In addition the contractor shall install (10) 2'X2' Access panels provided by other. **(Addendum #3)**
61. Provide fire resistant joint sealants, fire safing, fire stopping, as it relates the work of your contract.
62. This is not a secure site. All contractors are responsible for concealing, locking and /or removing any materials on a daily basis. EDiS will not be responsible for any lost tools, materials or equipment.
63. This contractor must provide a silica exposure plan that meets or exceeds the new 2017 silica OSHA requirements before any work can commence. At a minimum, it must be implemented into the company safety plan, include all monitoring, testing, limits exposure, provide respiratory plan and/or equipment modifications such as adding water to equipment during exposed work and keep records of exposure.
64. Layout of the work including responsibility for all elevations and dimensions as they affect other Contractor's work.
65. This contractor shall include within their bid the incorporation of **150 hours of CO OP participation** by a NCCVT student. Contractor to comply with project documents and requirements set forth in 19 del. C.ch.5.
66. This contract shall include in their bid the necessary crews to complete the work as per the project schedule. Provide additional crews as required to maintain schedule at no additional cost to the project.
67. This is not a secure site. All contractors are responsible for concealing, locking and /or removing any materials on a daily basis. EDiS will not be responsible for any lost tools, materials or equipment.
68. Include all necessary field measurements.

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69. Include three (3) passes per floor to “touch-up” mechanical penetrations to ensure ratings required. The first pass will be required prior to ceiling grid installation and the second pass will be required prior to final inspection for Certificate of Occupancy.
70. Bidders are advised to pay particular attention to top of wall conditions, fire and smoke safing of slabs and acoustical sealants. This work is include within the scope of this contract.
71. ~~This contractor to provide caulking at the base and top of drywall partitions, furred walls and all drywall conditions.~~ (Addendum #3)
72. This contractor shall work with other trades to install openings that are in wall assemblies being constructed.
73. Provide metal furring as required.
74. Engineered shop and installation drawings. (delegated design, with expedited submission and review costs included)
75. Provide complete acoustical ceiling systems to include suspension system, hangers and all required components for a complete system.
76. ~~Acoustical lay in insulation blankets and rigid panels above ceilings and behind wall grid systems as identified in the contract documents.~~ (Addendum #3)
77. Supplemental suspension hangers at large ducts above ceilings and at openings for lighting fixtures shall be provided and coordinated to minimize exposed clips, anchors, and wires.
78. Continuous acoustical sealant on back of vertical leg before installing moldings as indicated
79. Furnish and install hold down clips where required by governing regulations for fire resistant ratings.
80. Provide all material handling, scaffolds, lifts, Spyder cranes, access to work etc. as required for the scope of this contracts work.
81. Expansion joints for all acoustical ceilings, specialty ceilings and acoustical systems.
82. Provide ceiling grid layout on floor for cassette and duct placement in ceiling grid system.
83. This contractor shall review all documents, shop drawings, plans, and drawing model for ceiling height issues. All issues shall be reported to the EDiS prior to installing wall angles.
84. This Contractor shall cut openings in ceilings for sprinkler heads, lights, mechanical diffusers and grilles, etc. Coordinate work with other trades.
85. Coordinate with other trades for layout and install of their materials into the grid system provided by this contract.

86. Attic stock as per the contract documents, delivered, inventoried, and moved to a storage area within the building at the owner's direction.
87. Provide all resilient base required per Section 096500 Resilient Flooring.
88. Provide all site furnishings.
89. Provide pricing for alternates as described in Section 012300-Alternates.
90. Provide within this contract's base bid an allowance of \$50,000 for work to be directed by the owner and CM. Unused portions of the allowance shall be returned to the owner.
91. Provide an allowance of \$325,000 to provide dumpsters for **Phase I and Phase II** portions of the project. Work to be directed by the owner and CM. Unused portions of the allowance shall be returned to the owner.

CONTRACT NO. E-07: EXTERIOR METAL PANELS AND METAL ROOFING

- A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

Technical Specification Sections:

Division 0	Bidding and Contract Requirements
Division 1	General Requirements
Section 054000	Cold-Formed Metal Framing
Section 055000	Metal Fabrications (for your work)
Section 074213.13	Metal Wall and Roof Panels
Section 074213.23	Metal Composite Material Wall Panels
Section 076200	Sheet Metal Flashing and Trim
Section 077123	Manufactured Gutters and Downspouts
Section 079100	Preformed Joint Sealants
Section 079200	Joint Sealants

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Provide all metal panels, framing, sub girts, Z furring, insulation and all other components to provide a complete metal panel system for the field house as required by the contract documents.
2. Provide a complete metal siding, roofing, downspouts, gutters and required flashing for building buildings E4 and E5.(review alternate section) This contractor to coordinate closely with the CFMF contractor.
3. Provide all metal panels and accessories as indicated on the contract documents. This includes all panels associated with the stadium, field house and all out buildings as shown.
4. The spray installation system will be provided by the Masonry contractor, however this contractor is responsible to coordination. Specifically for installation durations and the completeness of the installation of the Z furring system this contract is providing. Timely installation to not impact the spray foam installation is required by this scope of work.
5. Provide all fascia's, soffits, overhangs etc. as required for a complete system. Complete system includes all caulking and sealants as required by the provided system.
6. Flashing of panels integral with the panel system.
7. Coordinating, cutting and fitting around the work of other trades is required by this contract and should be part of your base bid work.
8. Caulking of panels as required to provide a complete system. Vertical joints where metal panels meet adjacent materials shall be caulked by this contractor.
9. Miscellaneous metal items necessary to support panels other than required structural steel.

10. Furnish anchorage items for embedding into other construction for support of panels.
11. No electrical power for this contractor's equipment or welders will be provided. Electrical power to be provided as needed by this contractor.
12. Galvanized, epoxy or stainless steel, etc. anchors as specified.
13. Metal fascias and copings related to the panel system
14. All material handling, lifts, cranes etc. are the responsibility of this contractor.
15. Verification of field dimensions is the responsibility of this Contractor. Coordination and review window openings, door openings and others during the shop drawing process is required so materials can be ordered to accommodate schedule. Material may be required to be ordered in advance of the ability to field measure. This coordination is the responsibility of this contractor.
16. Provide all flashing as identified with the metal panel installation. Provide all hat channels and sub-girts for the panel installation. Coordinate with the work of other contractors related to the spray foam installation.
17. This is not a secure site. All contractors are responsible for concealing, locking and /or removing any materials on a daily basis. NCCVT and EDiS will not be responsible for any lost tools, materials or equipment.
18. This contractor must provide a silica exposure plan that meets or exceeds the new 2017 silica OSHA requirements before any work can commence. At a minimum, it must be implemented into the company safety plan, include all monitoring, testing, limits exposure, provide respiratory plan and/or equipment modifications such as adding water to equipment during exposed work and keep records of exposure.
19. Provide pricing for alternates as described in Section 012300-Alternates.
20. Include within this contracts base bid an allowance of \$20,000 for work to be determined by owner and construction manager. Unused allowance funds to be returned to the owner.

CONTRACT NO. E-08: ROOFING

- A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

Technical Specification Sections:

Division 0	Bidding and Contract Requirements
Division 1	General Requirements
Section 072100	Thermal Insulation
Section 075300	Elastomeric Membrane Roofing
Section 076200	Sheet Metal Flashing and Trim
Section 077100	Roof Specialties
Section 077123	Manufactured Gutters and Downspouts
Section 077200	Roof Accessories
Section 079100	Preformed Joint Sealants
Section 07900	Joint Sealants
Division 26	Electrical (power, fire alarm, lightning protection)

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Provide single ply flexible roofing system, including rigid and tapered insulation and all related accessories. (Field House, Building E1 E2, E3, and all 4 E6 Roofs)
2. This contractor shall carefully review the edge of roof details to determine if the roof can be placed before the exterior wall assembly is complete. This contractor shall include all costs associated with returning to the jobsite to complete the roof perimeter after wall assembly is complete.
3. Provide caulking and joint assemblies related to roofing, flashing and roof accessories.
4. Roof drains and associated plumbing shall be provided by the Mechanical Contractor. Flashing of the roof drains shall be by the Roofing Contractor. Openings for the roof drains in the roofing materials shall be cut by the Roofing Contractor. Openings in the metal deck shall be cut by others. This contractor shall be responsible to coordinate the roof drain locations as needed by the steel contractor and plumbing contractor so reinforcing of the decking and roof support frames may be installed in accordance with the sequence of work.
5. Metal parapet coping, receiver system and all components required for a complete coping assembly. Caulking and sealing of all copings is the responsibility of this contractor.
6. Provide boot for piping and conduits that penetrate the roofing assembly. Coordinate with other trades.
7. Coordinate the roofing installation and flashing required for line sets, piping, electric and control penetrations. Coordinate with MEP contractors.
8. Roof hatches, smoke vents, smoke hatches, access covers etc. are to be provided by this contractor.

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Coordination of this work with other trades and the MEP vendors are required by this contract. Rail systems and curbs to be provided by this contract. The smoke hatches are not accessible shall be provided with remote controllers to test and re-set.

9. Walk pads and walk pad layout shop drawings are required by this contract.
10. Metal drip edges, complete including all caulking and sealants.
11. Gravel stops, complete including all caulking and sealants.
12. Roof curbs to be installed by this contractor, provided by the MEP trades as identified in the contract documents. Coordination with the Carpentry contractor on the roof blocking thickness is required by this contractor. Provide detail shop drawings identifying the insulation thickness so blocking can be installed accordingly.
13. This contractor shall coordinate with the carpentry contractor on location of wood blocking, curbing, etc. to facilitate the installation of the tapered insulation, crickets etc.
14. Provide expansion joints that are integral to the roof.
15. Gutters, downspouts, splash pans, splash blocks. This contractor shall be responsible to coordinate with the plumbing contractor for the connection to the RW system. Provide membrane flashing, metal flashings, sealants, drip edge, gutters, drain covers etc. as related the gutter systems for this course of work.
16. Metal scuppers, over flows, drains etc. as required by the contract documents are this contractors responsibility.
17. Provide a means to lift materials to the roof for materials not stored on the roof at initial time of delivery. All costs shall be the responsibility of the roofing contractor.
18. This contractor shall provide waterproof seals around lightning protection system as required by roof manufacturer requirements. If location of lightning protection conduits are not clearly shown on the roof plan, include within your base bid an additional; cost to seal one penetration for every 1000 sf of roof area.
19. This contractor shall review the schedule for the roofing scope of work and include within the base bid considerations (costs) for cold weather roofing installations. This shall include but is not limited to providing a warming hut/enclosure to keep material warm and allow the roof installation to continue in cold temperatures. All costs related to cold weather roof installation shall be the responsibility of this contractor.
20. The owner may at any time select to have a third party roof inspector review and inspect the roofing installation and finished roof system. This contractor shall work with and allow access to this third party inspector as needed.
21. All trash shall be removed from this contractors work area daily to the dumpsters. No trash may be stored on the roof area.

22. Flashing and sheet metal systems related to the scope of this contract work.
23. This is not a secure site. All contractors are responsible for concealing, locking and /or removing any materials on a daily basis. EDiS will not be responsible for any lost tools, materials or equipment.
24. This contractor shall include within the base bid proposal (2) additional roofing inspections of all roofing assembly to facilitate any damage or overuse repairs that may be required. These inspections will be schedule by the CM within the duration of the construction schedule. These inspections do not in any way take the place.
25. This contractor shall include a \$20,000 allowance within their base bid for work to be determined by the CM and NCCVT. All unused allowance dollars will be returned to the owner.
21. Flashing Summary:
 - a. Thru wall and cavity flashing below the roof line shall be by the Masonry Contractor.
 - b. Thru wall and cavity flashing above the roof line shall be by the Roofing Contractor.

CONTRACT NO. E-09: HOLLOW METAL, WOOD DOORS, AND FINISH HARDWARE

- A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

Technical Specification Sections:

Division 0	Bidding and Contract Requirements
Division 1	General Requirements
Section 081113	Hollow Metal Doors and Frames
Section 081416	Flush Wood Doors
Section 087100	Door Hardware
Section 080671	Door Hardware Schedule
Section 088000	Glazing (coordinate with Carpentry contractor)
Section 084313	Aluminum Framed Storefronts
Section 089100	Louvers (as related to doors)
Division 26	Electrical (coordination)
Division 27	Communications (coordination)
Division 28	Electronic Safety and Security (Coordination)

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Furnish only hollow metal doors, frames, vision panels and finish hardware.
2. Keying. All lock sets. Provide Owner with a complete schedule of all keying and pin schedules as required. (coordinate keying schedule with NCCVT)
3. **This contractor shall coordinate with the Special Systems contractor for coordination of Salto hardware.**
4. Furnish Aluminum Storefront vision panels to be installed by the carpentry contractor.
5. Construction door cylinders shall be provided by this contractor to the Carpentry contractor for use during construction. Plan and include the cost of providing (3) three separate levels of cylinders (green, red, blue) to allow areas to be secured separately as required by the CM. Provide (10) keys per color system.
6. All exterior Hollow Metal frames shall include a box and raceway built into the door frame for locations at the latch and hinge as required. Provide a box and raceway at the head of the frames for door contact access and installation.
7. This contractor shall coordinate the hardware and door materials with the Carpentry contractor prior to ordering materials. Including but not limited to all coordination meetings with the Owner, CM Carpentry contractor and Special Systems contractor as required to properly coordinate all doors, frames, hardware and connections, prior to ordering of materials.
8. This contractor shall deliver all materials as coordinated with the installer to the project site in an

orderly organized manner. Deliveries will not be received unless the Carpentry contractor is notified and the delivery is coordinated. The Owner and EDiS will receive any materials. Additionally provide 48 hour notice prior to delivery. All deliveries are to be between 7:00 AM and 3:30 PM (allow time for check in of all hardware when scheduling)

9. Provide field assistance to Electrical and Carpentry Contractor as required to facilitate the installation of the materials supplied by your course of work.
10. This contractor to coordinate with the Special Systems contractor and Electrical contractor to ensure that all cut outs, plates, receiver etc. that are required to be built into your doors and frames are fully coordinated. In person attendance at review and coordination meetings for the doors, hardware, special systems, raceway and electrical connections shall be the responsibility of this contractor.
11. As changes are made to the hardware schedule, whether due to issued ASI's, RFI's, architectural changes etc., this contractor shall make updates to the hardware schedule and re-issue so the schedule is always updated and submitted to EDiS.
12. Coordinate electrical requirements with any automatic door operations.
13. Provide harness lengths to reach above accessible ceilings. Coordination of this work and the lengths required is the responsibility of this contractor. Provide any harness adapters and connectors required allow hardware to have a splice free system.
14. This contractor shall provide all magnetic hold open hardware, including extensions as required.
15. Provide a key box system to hold up to 25% over the amount of keys being supplied. Provide (10) additional Locking Key Box's 18" x12" for NCCVT use.
16. Provide all BIM services as specified in Section 013700 BIM Execution Plan.
17. Provide pricing for alternates as described in Section 012300-Alternates.
18. Coordinate with the Division 28 contractor on all Salto hardware requirements. Salto hardware supplied by Div 28 contractor.

CONTRACT NO. E-10: OVERHEAD ROLLING DOORS AND SHUTTERS

- A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials, and equipment for:

Technical Specification sections:

Division 0	Bidding and Contract Requirements
Division 1	General Requirements
Section 055000	Metal Fabrications
Section 083300	Rolling Service Doors
Division 26	Electrical (coordination)
Division 28	Electronic Safety and Security (coordination)

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Provide all rolling service doors, overhead rolling doors and rolling counter shutters as required by the contract documents. To include but not limited to exterior and interior coiling doors systems. Hardware, openers, buttons and controllers required for a complete system shall be provided by this contractor.
2. Provide all overhead coiling grilles.
3. Provide all overhead counter doors.
4. Include all wall framed openings and openings including trims, flashings, and sealants as required to perform your course of work.
5. Provide additional supports for overhead coiling doors. Structural members identified on the structural drawings are not part of this contract scope. Provide ancillary steel, connectors, all thread and other misc. items as required. Coordinate all electrical and special systems requirements for work of this contract with the appropriate contractors. Provide keyed switches for both electric and low voltage to match building keying.
6. Keying coordination for all lock sets. (coordinate with same hardware system as Door Hardware supply contract.)
7. Coordinate electrical requirements with any automatic overhead door operations.
8. Provide low-voltage wiring required for overhead doors automatic door operations. Include all raceways, boxes and switches required for a complete installation.
9. Ensure doors fully open the entire height of the door opening and close with the bottom edge touching the ground. Doors will fit square in the openings with no gaps along the top, bottom or sides when the door is closed.

10. This is not a secure site. All contractors are responsible for concealing, locking and /or removing any materials on a daily basis. EDiS will not be responsible for any lost tools, materials or equipment.
11. Provide all sensing and safety devices as specified for each assembly to provide a complete assembly.
12. Exterior overhead doors and grilles shall have the appropriate specified seals, and weatherstripping at all edges. Top, sides and bottom. Seals shall maintain water tightness when installed.
13. Provide all BIM services as specified in Section 013700 BIM Execution Plan.
14. Provide pricing for alternates as described in Section 012300-Alternates.
15. Provide an Allowance of \$15,000 for work to be determined by the CM and NCCVT. All unused allowance dollars will be returned to the owner.

CONTRACT NO. E-11: FLUID-APPLIED FLOORING

- A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials, and equipment for:

Technical Specification sections:

Division 0	Bidding and Contract Requirements
Division 1	General Requirements
Section 079200	Joint Sealants
Section 090561	Common Work Results for Flooring Preparation
Section 096700	Fluid Applied Flooring

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Provide fluid-applied flooring and integral base.
2. Provide mock-ups as required by plans and specifications.
3. Provide standard and custom color samples for review and approval.
4. Provide vapor retarding sealer prior to resinous application, as required by specifications or manufacturer's installation instructions.
5. Provide protection of work of others as well as cutting and fitting around work installed by others.
6. Patching and leveling of areas to receive resinous flooring to be included in the base bid of this contract.
7. Provide cleaning, finishes and protection. Protection shall be RamBoard Pro sheets with Ram tape. Provide protection of finished products until acceptance by Construction Manager.
8. Provide crack suppression membrane required for the work of this contract. The submitted shop drawing for the Resinous Flooring areas shall reflect all control joints, expansion joints and crack suppression locations for review and approval.
9. Provide at least a 48-hour notice prior to any delivery. All deliveries are to be between 7:00 AM and 3:30 PM.
10. This is not a secure site. All contractors are responsible for concealing, locking and/or removing any materials on a daily basis. NCCVT and EDiS will not be responsible for any lost tools, materials or equipment.
11. This contractor must provide a silica exposure plan that meets or exceeds the new 2017 silica OSHA requirements before any work can commence. At a minimum, it must be implemented into the company safety plan, include all monitoring, testing, limits exposure, provide

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respiratory plan and/or equipment modifications such as adding water to equipment during exposed work and keep records of exposure.

12. Contractor must provide additional crews as needed to maintain the project schedule.
13. Include within this contracts base bid an allowance of \$10,000 for work to be determined by owner and construction manager. Unused allowance funds to be returned to the owner.

CONTRACT NO. E-12: PAINTING

- A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

Technical Specification Sections:

Division 0	Bidding and Contract Requirements
Division 1	General Requirements
Section 079200	Joint Sealants
Section 099113	Exterior Painting
Section 099123	Interior Painting

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Provide all painting (all walls and ceilings indicated on the finish schedule) include all preparation of surfaces, trims and finish wood locations.
2. Provide sealing of all interior joints between dissimilar materials that require sealants before painting.
3. This contractor shall provide "all" interior and exterior painting complete.
4. Paint all exposed block work and concrete work as shown on the room finish schedule and contract documents.
5. Prime, stain or seal, all wood trim and doors as required by the contract documents.
6. Paint exposed piping (sprinkler, plumbing, gas piping, electrical) and ductwork in accordance with the contract documents. Include preparation work for all items specified. Review and coordinate any color requirements specified in the contract documents or as required by code. Pay close attention to MEP documents for specific locations of piping colors.
7. Provide Fire and Smoke Identify markings on all masonry walls that require marking per governing jurisdictions. Coordinate marking walls with painted/stencils with the CM on site.
8. Provide supplementary ventilation as required in enclosed spaces.
9. Paint and caulk all hollow metal frames and doors as shown on the door schedule.
10. Paint metal stairs and railings.
11. Prefinished items WILL NOT be painted by this Contractor.
12. Paint all semi-exposed wood blocking as indicated on the drawing.
13. Include "preparation" of all surfaces and items required to be covered by the scope of this contract.

14. This contractor shall allow a touch up pass from drywall contractor/mason contractor between prime coat and first coat of finish.
15. Protection of adjacent surfaces required by this contractor.
16. Minor patching prior to application of finishes shall be included in the base bid.
17. This contractor shall provide sealing/hardener of concrete floors, including scraping, brushing, removal of markings, grease, foreign materials and thoroughly cleaning all the floors prior to installation of the sealer/hardener materials. Mechanical cleaning of floors as required prior to sealing. Coordination with other finishes will require multiple mobilizations for the sealer/hardener preparation and installation.
18. Installation of rated wall identification to be provided by this contractor. Access, lifts, ladders etc. to be provided by this contractor.
19. Provide painting of all exterior bollards and gates that are not prefinished.
20. Paint gas lines at both the interior and exterior of the building.
21. All lintels shall be painted by this contractor.
22. Paint all railings and handrails that are not prefinished.
23. Provide cleanup of your work areas and storage areas on a daily basis. Removal of spent paint cans and buckets is the responsibility of this contractor.
24. This contractor shall protect all areas, materials and work of others from over-spray from the work of this contract.
25. Provide at least a 48-hour notice prior to any delivery. All deliveries are to be between 7:00 AM and 3:30 PM.
26. This is not a secure site. All contractors are responsible for concealing, locking and/or removing any materials on a daily basis. NCCVT and EDiS will not be responsible for any lost tools, materials or equipment.
27. This contractor must provide a silica exposure plan that meets or exceeds the new 2017 silica OSHA requirements before any work can commence. At a minimum, it must be implemented into the company safety plan, include all monitoring, testing, limits exposure, provide respiratory plan and/or equipment modifications such as adding water to equipment during exposed work and keep records of exposure.
28. Contractor must provide additional crews as needed to maintain the project schedule.
29. Provide pricing for alternates as described in Section 012300-Alternates.

CONTRACT NO. E-13: BLEACHERS AND GRANDSTANDS

- A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

Technical Specification sections:

Division 0	Bidding and Contract Requirements
Division 1	General Requirements
Section 061000	Rough Carpentry
Section 079200	Joint Sealers
Section 131250	Bleachers, Grandstands

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Provide all Bleachers and Grandstands as indicated on the contract documents. (foundations as detailed provided by Site contractor)
2. Provide bleacher seating systems, both stationary and removable.
3. Provide Press Box configurations as per the contract documents.
4. Verification of field dimensions is the responsibility of this Contractor. Coordinate with the MEP contractors to insure proper installation related to their work.
5. Anchoring devices, fasteners, inserts and other related items associated with the installation of the above items. Provide all material handling and access equipment required for the scope of your contract.
6. All material handling. Loading, moving, lifting of the materials of this contract shall be the responsibility of this contractor. The CM will not receive or unload your materials.
7. Provide at least a 48-hour notice prior to any delivery. All deliveries are to be between 7:00 AM and 3:30 PM.
8. This is not a secure site. All contractors are responsible for concealing, locking and/or removing any materials on a daily basis. NCCVT and EDis will not be responsible for any lost tools, materials or equipment.
9. This contractor must provide a silica exposure plan that meets or exceeds the new 2017 silica OSHA requirements before any work can commence. At a minimum, it must be implemented into the company safety plan, include all monitoring, testing, limits exposure, provide respiratory plan and/or equipment modifications such as adding water to equipment during exposed work and keep records of exposure.
10. Provide pricing for alternates as described in Section 012300-Alternates.

11. Provide all BIM services as specified in Section 013700 BIM Execution Plan. As part of the coordination process all contractors are responsible for obtaining a Revizto license. The cost of this license is \$1,500 and shall be included in your base bid proposal.
12. Include within this contracts base bid an allowance of \$10,000 for work to be determined by owner and construction manager. Unused allowance funds to be returned to the owner by means of a credit change order.

CONTRACT NO. E-14: FIRE PROTECTION

- A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

Technical Specification Sections:

Division 0	Bidding and Contract Requirements
Division 1	General Requirements
Division 22	Plumbing
Division 26	Electrical
Division 32	Site Improvements
Section 312300	Excavation and Backfill for pipelines and Structures
Section 03310	Cast in Place Concrete
Section 210500	Common Work Results for Fire protection
Section 210505	Fire Suppression System Piping, Fittings and Valves
Section 211003	Water Based Fire Suppression System-Sprinklers

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Provide piping, fittings, couplings, valves and sprinkler heads to provide a complete Fire Protection Dry Action System.
2. Excavation and backfill related to fire protection work as detailed below is the responsibility of this Contractor. (Geo-Tech reports included for this contractors review)
3. Backfilling is the responsibility of this Contractor. Soil types shall be in accordance with project documents. Backfill materials shall be covered after excavation and protected. If materials become wet and unusable this contractor shall remove the material from site and provide stone dust (#10 stone dust) to backfill all piping trenches and remove unsuitable material off site.
4. Provide As-built drawings in both hard copy and BIM format.
5. Provide concrete equipment pads, curbs and thrust blocks related to the Fire Protection work (sprinkler system) and Fire Pump system.
6. Permits, testing and inspections required for the Fire Protection work are to be provided by this contractor.
7. Providing of sleeve assemblies for work of this contract that penetrates the foundation wall, interior footings or any concrete footings shall be provided to the masonry and concrete contractor for installation. This contractor shall coordinate and assist with the sleeving install. Sleeves are to be sealed per contract documents.
8. Firesafing of all penetration is a requirement of this contract.
9. Design of the system, submissions to the Fire Marshall, review with Fire Marshall and expediting

the permit for the Fire Suppression system is a priority of this contract scope.

10. Flow and tamper and sensor switches to be supplied by this Contractor and wired by the Electrical Contractor. It is this Contractors responsibility to provide flow and tamper switches to meet applicable state and local codes as well coordinate with the MEP contract documents.
11. Dry Pipe Fire Protection System Air Compressor, controller and related work. Electric power wiring of compressor and controller to be by the Electrical Contractor.
12. If a water meter is required when the review process and permitting is completed, this contractor shall purchase, pay for, install and coordinate all work with the required authorities.
13. This Contractor to coordinate the need for and compatibility of his system to the emergency generator, supplied by other.
14. Pipe identification and labelling is a requirement of this contract. Valve labels, etc. are required as per the contract documents.
15. Provide fire main from +/- 5 feet outside building including connection in the building. Final connection of your fire line and the line provided by the site contractor shall be the Fire Protection contractors responsibility. Provide a registered plumbing contractor licensed to perform the tie in as part of you base bid.
16. This contractor will flush the UG system with the assistance of the site contractor and provide written documentation to the CM.
17. All cored walls require sleeves and are required to be sealed per contract documents. Any mess from the coring operation shall be immediately cleaned up by this contractor and shall not affect any installed finishes. If this work is not performed efficiently, the work will be performed by the owner and back charged to this contractor.
18. This contractor shall be onsite while walls are being constructed for layout and installation of valve cabinets, concealed, piping, etc.
19. The work of this contract will require out of sequence installations. This should be considered and included in your base bid.
20. This contractor shall provide all access panels required for the work of this contract. They should be lockable, fire rated where required. Panels shall meet the requirements of the contract documents.
21. This contractor shall include within their bid the incorporation of **75 hours of CO OP participation** by a NCCVT student. Contractor to comply with project documents and requirements set forth in 19 del. C.ch.5.
22. Provide all BIM services as specified in Section 013700 BIM Execution Plan. As part of the coordination process all contractors are responsible for obtaining a Revizto license. The cost of this license is \$1,500 and shall be included in your base bid proposal.

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23. This contractor must provide a silica exposure plan that meets or exceeds the new 2017 silica OSHA requirements before any work can commence. At a minimum, it must be implemented into the company safety plan, include all monitoring, testing, limits exposure, provide respiratory plan and/or equipment modifications such as adding water to equipment during exposed work and keep records of exposure.
24. This is not a secure site. All contractors are responsible for concealing, locking and /or removing any materials on a daily basis. EDiS will not be responsible for any lost tools, materials or equipment.
25. Provide the necessary coordination with trades to avoid interferences with other work and make corrections at no extra charge.
26. Include within this contracts base bid an allowance of \$10,000 for work to be determined by owner and construction manager. Unused allowance funds to be returned to the owner.

CONTRACT NO. E-15: PLUMBING, HVAC, AND CONTROLS

- A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

Technical Specification Sections:

Division 0	Bidding and Contract Requirements
Division 1	General Requirements
Division 21	Fire Protection (coordination)
Division 22	Plumbing
Division 23	HVAC (all sections)
Division 26	Electrical (coordination)
Division 28	Electronic Safety and Security (coordination of work)
Division 26	Electrical (coordination)
Division 32	Site Improvements
Section 312300	Excavation and Backfill for pipelines and Structures
Section 03310	Cast in Place Concrete

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Provide a complete system for all plumbing, HVAC, and ATC controls as indicated by the contract documents.
2. This contractor shall provide all pipe insulation, insulation coverings, valve insulation, labelling, and identification of for the plumbing, HVAC and control system.
3. This contract includes all Division 0 and Division 1 General Requirements. All commissioning requirements are identified in Division 1 and are a requirement of this contract.
4. Division 16 of the specifications should be reviewed as it relates to the power wiring and other requirements for HVAC equipment including the coordination of furnishing and installing motor starters as provided in the specifications.
5. Division 26 of the specifications should be reviewed as it relates to the power wiring to trap primers and controls within this contracts scope of work. Coordinate this work with the electrical contractor.
6. Permits, testing, inspections required for the Plumbing and HVAC system work are to be provided by this contractor. This contractor shall pay all permit and inspection fees for the work of their contract.
7. This Contractor shall be responsible to designate an individual within his organization, intimately familiar with this project and assigned on site, to act as the System Start-up Coordinator. This individual must be pre-approved by the Construction Manager. This individual's responsibilities shall include, but not be limited to, coordinating the start-up of all mechanical equipment, including the coordination between the Electrical Contractor, the Controls Contractor, and all

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testing, adjusting and balancing work. This individual shall report on a weekly basis, in written form, to the Construction Manager. These reports shall include a summary of current conditions including manufacturers' start-ups, systems' deficiencies noted to date and the remediation of same, coordination issues between trades, system interfacing and forecasting, as necessary to project the completion of each individual system within the building.

8. Excavation and backfill for underground plumbing work as detailed below is the responsibility of this Contractor. Soil types shall be in accordance with the contract documents Refer Section 312300 for requirements on soils. (Geo-Tech reports included for reference and use)
9. Backfilling is the responsibility of this Contractor. Soil types shall be in accordance with project documents. It is the intent to use on site material and not imported fill. The use of this on site material shall conform with the compaction requirements identified in Section 312300. Excavated materials shall be covered immediately and protected from moisture mitigation. If Materials become unusable, this contractor shall own purchasing #10 stone dust to utilize as backfill in all trench or structure locations. Excess unsuitable materials from plumbing excavations shall be removed from the site by this contractor. (includes water meter pit installation) it is not acceptable for any UG piping to be in the stone layer installed by the concrete contractor, all UG piping must be installed in the subbase with adequate soil coverage. Coordinate inverts through foundations with outside piping.
10. The Concrete Contractor shall furnish, install and maintain stone fill under slab. The Sitework Contractor shall leave the building pad site at subgrade to the required tolerance in the contract documents to receive stone fill. The Plumbing, Mechanical and Electrical contractors shall complete their work under the slab on grade and shall be responsible to return the pad to the subgrade elevation left by the Sitework Contractor. The Concrete Contractor shall then adjust the select material to final subgrade, fine grade the slab and place the vapor barrier and stone fill. Note: while working on the building pad area this contractor shall utilize track drive equipment only. No rubber tire equipment will be allowed. Preservation of the building pad shall be the responsibility of this contractor. The onsite testing and inspection agency provided the owner will monitor the excavation, travel and backfilling operation.
11. The plumbing and concrete contractor and CM will meet to review the building pad for turnover to the next trade. If not accepted correction will need to be made to correct concerns and sign off.
12. Equipment bases and housekeeping pads required for the equipment of this scope of work to be provide by this contractor.
13. This contractor shall provide all necessary material handling equipment, cranes, scaffolds, hoisting and rigging equipment and supplies for work associated with this contracts.
14. Providing of sleeve assemblies for work of this contract that penetrates the foundation wall, interior footings or any concrete footings shall be provided to the masonry and concrete contractor for installation. This contractor shall coordinate and assist with the sleeving install. All sleeves must be provided with the appropriate seals, this contract owns sealing the sleeves related to this contracts work.
15. Pipe insulation, insulation coverings, valve insulation, labelling and identification of plumbing

lines shall be provided by this contractor.

16. Valve tags, charts, and labelling shall be part of this contractor's responsibility.
17. Provide Mop sinks and Receptors as indicated on the contract documents.
18. Penetrations through wall, floors, etc. including cutting, patching and fire safing.
19. Testing and balancing of all systems shall be provide by this contractor.
20. Clean up shall be provided daily, all trash, debris, crates, boxes etc. shall be moved out of the building to the dumpsters each day. No storage of trash will be allowed inside the building or courtyards.
21. Ductwork, flex duct, grilles, diffusers, including detailed layout for the drywall and ceiling contractor shall be provided by this contractor.
22. Louvers and vents related to HVAC operations. Furnish flashings required, steel frames, caulking/sealants and covers if identified. Louvers must be installed so water does not accumulate beyond face of louver, this contractor to maintain these louvers until project is substantially complete. Flashing of louvers at exterior and interior wall assemblies is the responsibility of this contractor. (flashing details must be submitted and approved by the design team).
23. Coordinate damper size, location and type of damper with contract documents, pay special attention to architectural drawings and finish surfaces. Fire dampers are to be included as part of this contractors scope.
24. This contractor shall be on site to coordinate when walls are being installed for penetrations and sleeve installations. If penetrations and sleeves are missed, this will be the responsibility of this contractor to cover associated costs of fixing.
25. Temporary heat and ventilation installation, maintenance and removal. Refer to Division 1, Specification Section 015123 - TEMPORARY HEAT AND VENTILATION, for specific scope.
26. All guarantees and warranties to begin at the substantial completion of the entire project. Maintain equipment prior to substantial completion.
27. Roof curbs, rails, etc. to be provided and loaded to the roof by this contractor. Layout and installation by this contractor, coordinate with the carpentry contractor for blocking and the roofing contractor for flashing and roofing details. Include any doghouses or raceways for service lines, including coordination of flashing.
28. Roof drains, pans, sumps and all related anchoring, support and adjustment elements that are required per the contract documents.
29. This contractor is responsible for providing, setting, bracing, anchoring, and aligning all floor drains, floor basins etc. required by the contract documents. The plumbing contractor shall have a plumber on site 100% of the time when the concrete contractor is pouring S.O.G. floors or elevated

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slabs. Drains that are misaligned will be demolished, removed, and replaced by this contractor. Including but not limited to replacing and re-engineering floor reinforcement and paying the concrete contractor to re-pour the slab areas.

30. Gas piping, meter and pressure regulator valve. (proper sizing of the regulators is the responsibility of this contractor.) Include anchoring this equipment to the concrete pad provided by the concrete contractor and anchoring the piping and stand to the exterior wall.
31. Trap priming system, including detailed submittals of the system and then provide as-builts of the location of the rack installations. Photos marked with locations to be provided by this contractor.
32. All utilities will be brought to within +/- 5 feet of the building line by others. The Plumbing Contractor **is responsible** for connecting the utilities from +/- 5 feet outside the building line and completing the system within the building. This contractor shall own the underground line with the assistance of the site contractor, including any chemical treatment required by NCCo, Artesian or any other regulatory agency. Reports shall be submitted to CM. This includes any adjustments to HWS & R RicWil piping installed under previous contract from Main Building to Fieldhouse Mech. Rm.
33. This contractor will flush the underground with the assistance of site contractor and provide documentation to CM.
34. Provide complete water sterilization, testing and reporting. Include within your proposal (4) additional testing mobilization for potential Phase utilization.
35. Install Owner pre-purchased equipment, if identified within the contract documents.
36. Provide access panels to the drywall contractor for framing information and final installation.
37. This contractor shall be on site to coordinate when walls are being installed for penetrations and sleeve installations. If penetrations and sleeves are missed, this will be the responsibility of this contractor to cover associated costs of fixing.
38. This contractor shall provide all required fire dampers, connections and remote controllers for the HVAC system.
39. Provide all VFD's related to HVAC equipment complete for electrical contractor to install.
40. Provide (2) sets of filters for construction use. Include changing out the filters during the construction phase. Additionally include a complete change out of all filters prior to turn over to the owner (these filters shall be separate from the attic stock filters required) Providing a complete filter listing as part of the closeout documents is required.
41. This contractor shall provide the work of Section 230900 Instrumentation and Controls of HVAC system in its entirety. Coordinate with all other trades as required. Provide all instrumentation, controls, coordination of work, testing as required to provide a complete ATC system for this project. This work shall include but not be limited to instrumentation and controls for: Provide all instrumentation, controls, coordination of work, testing as required to provide a complete ATC

system for this project.

42. Motorized dampers when not specified as part of the factory packaged equipment supplied to job site for distribution and installation by others.
43. This contract shall supply control valves per contract documents and drawings.
44. Building life safety control and equipment safety control including: operators and controls for motorized smoke dampers, operators and controls for motorized fire dampers, firestats, freeze protection thermostats, shut down safety devices forming part of automatic temperature control.
45. As-built drawings is both hard copy and BIM submission as part of the project closeout.
46. This contractor shall include within their bid the incorporation of 200hours of CO OP participation by a NCCVT student. Contractor to comply with project documents and requirements set forth in 19 del. C.ch.5
47. Provide all BIM services as specified in Section 013700 BIM Execution Plan. As part of the coordination process all contractors are responsible for obtaining a Revizto license that encompasses the entirety of this project. The cost of this license is \$1,500 and shall be included in your base bid proposal.
48. This contractor must provide a silica exposure plan that meets or exceeds the new 2017silica OSHA requirements before any work can commence. At a minimum, it must be implemented in to the company safety plan, include all monitoring, testing, limits exposure, provide respiratory plan and/or equipment modifications such as adding water to equipment during exposed work and keep records of exposure.
49. This is not a secure site. All contractors are responsible for concealing, locking and /or removing any materials on a daily basis. EDiS will not be responsible for any lost tools, materials or equipment.
50. Provide the necessary coordination with trades to avoid interferences with other work and make corrections at no extra charge.
51. Provide all permits and inspections required for the work of this contract, pay all fee's.
52. Include within this contracts base bid an allowance of \$30,000 for work to be determined by owner and construction manager. Unused allowance funds to be returned to the owner by means of a credit change order.

CONTRACT NO. E-16: ELECTRICAL, LIGHTING, AND FIRE ALARM SYSTEMS

- A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

Technical Specification Sections:

Division 0	Bidding and Contract Requirements
Division 1	General Requirements
Division 22	Plumbing (coordination of work)
Division 21	Fire Protection (coordination of work)
Division 23	HVAC (coordination of work)
Division 26	Electrical
Division 27	Communications
Division 28	Electronic Safety and Security (raceways and coordination)
Section 284621	Addressable Fire Alarm Systems (complete)

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Provide a complete electrical system, lighting(including Stadium & Field Lighting), addressable fire alarm system and infrastructure for all Division 21, Division 27 and Division 28 as indicated on the contract documents.
2. Review and coordinate pricing with Alternate Section (multiple alternates relate to this contract)
3. This contract includes the complete foundation systems for all pole lighting, bollard lights and stadium lighting. Including excavation, backfill, concrete, reinforcing, setting all anchor bolts and spoils removal.
4. Provide all electrical raceways and wiring for the well pumps as located on the contract documents. (two locations)
5. Provide electrical raceways and power wiring to the E1 building. (see alternate section)
6. Lightning protection shall be provided by this contract and coordinated with the Carpentry contractor and Roofing Installer.
7. This contractor to supply power to all areas of work of other trades requiring electrical power.
8. Provide complete infrastructure system for all Division 27 and Division 28 systems. Including all interior and exterior duct banks, raceways and sleeves for special systems.
9. This contractor shall include in the base bid temporary exterior lighting installed and maintained to provide lighting adequate for safety and security purposes for the exterior of the building. The lights must be installed to meet the requirements for exterior use and illuminated during low light hours. These lights will be utilized until permanent exterior lighting has been installed and powered. Supplying the temp power for this lighting is part of this contract. Include providing

temporary power and lighting as needed for the entire duration of the project. This include the necessary power outlets required for all contractor use. Power must be available within a reasonable distance at all times.

10. Division 23 of the specifications should be reviewed as it relates to the power wiring and other requirements for HVAC equipment including the coordination of furnishing and installing motor starters and controllers as detailed in the Specifications and on the Drawings.
11. This contractor shall provide all conduits, raceways and boxes required for all special systems, including ATC controls, thermostat and sensor installation and security systems and CCTV. Including any raceways or conduits required by the Div 27 and 28 Special Systems Contractor
12. The HVAC contractor will supply all VFD's to the electrical contractor for installation and powering.
13. Provide all smoke damper, power and remote controllers as required by the contract documents.
14. Excavation and backfill for underground electrical work as required below is the responsibility of this Contractor. Soil types shall be in accordance with project specifications and the Geo-Tech report. Geo-Tech reports included for review and acceptance.
15. Backfilling is the responsibility of this Contractor. Soil types shall be in accordance with project documents. It is the intent to use on site material and not imported fill. The use of this on site material shall conform to the compaction requirements identified in Section 312300. Excavated materials shall be covered immediately and protected from moisture mitigation. If Materials become unusable, this contractor shall own purchasing acceptable off site materials.
16. Provide all excavation, layout, concrete, reinforcing for duct banks, light standards, pole lighting, bollard lighting and Stadium lighting, above ground conduit encasement, equipment bases and any other concrete work specifically related to the electrical work. This shall include services from the roadways and all communication duct banks as required. Include requirements of New Castle County, State and local codes for concrete encasement.
17. All runs in exposed ceilings are to be in conduit.
18. All exterior underground raceways and infrastructure are to be installed by this contractor as required by the contract documents. (Cameras, security, electric etc.)
19. Temporary electric installation, maintenance and removal. Refer to Division 1, Specification Section 015113 - TEMPORARY ELECTRIC, for additional information.
20. Power Centers for miscellaneous tools and equipment used in the construction work shall be provided with a minimum of four 20-amp, 120 volt grounding type outlets. Each outlet shall be provided with ground fault detecting circuit breaker protection. The distance between each receptacle location shall not exceed 50 feet.
21. Construction areas, ramps, runways, corridors, offices, and storage areas shall be lighted to not less than the minimum illumination intensities at five (5) foot candles and any additional OSHA

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Temporary lighting and receptacles exposed to wet or damp locations must be weatherproof. Adequate lighting for safe working conditions and the exterior of the structure shall be provided and maintained on a 24 hour per day basis throughout the building. Voltage of each lighting component must be able to accommodate lighting requirements.

22. Rough in and final connection and related work for equipment provided under other contracts (i.e. , HVAC, sprinkler, motorized doors, vertical walls, etc.)
23. Provide all permits and inspections. Pay all fees associated with the permits and inspection.
24. Penetrations through walls, floors, etc. including cutting, patching and fire safing.
25. Testing of all systems, as related to the scope of work for this contract shall be provided. Reporting and verification documentation shall be supplied to NCCVT and EDiS.
26. This contractor shall provide all supplemental hangers and fasteners for lighting installation to the building structure.
27. All runs in exposed ceilings shall be installed in conduit.
28. Clean up on a daily basis shall be provided by this contractor. All work areas shall be organized and cleaned up to the dumpsters each day.
29. The Concrete Contractor shall furnish, install and maintain stone fill under slab. The Sitework Contractor shall leave the building pad site at subgrade required by the contract documents in preparation to receive stone fill. The Mechanical and Electrical Contractors shall complete their work under the slab on grade and shall be responsible to return the pad to the subgrade elevation left by the Sitework Contractor. The Concrete Contractor shall then adjust the select material to final subgrade, fine grade the slab and place the vapor barrier and stone fill. Note: while working on the building pad area this contractor shall utilize track drive equipment only. No rubber tire equipment will be allowed. Preservation of the building pad shall be the responsibility of this contractor. The onsite testing and inspection agency provided the owner will monitor the excavation, travel and backfilling operation.
30. The electrical, and concrete contractor and CM will meet to review the building pad for turnover to the next trade. If not accepted correction will need to be made to correct concerns and sign off.
31. Note: all raceways are to be installed into the subgrade soils and shall have adequate cover for protection from traffic above. No raceways will be installed in the stone base provided by the concrete contractor.
32. All guarantees and warranties to begin at the substantial completion of the entire project. Maintain equipment prior to substantial completion.
33. Hoisting, rigging and scaffolding required to perform you scope of work shall be provided by this contractor.
34. Provide a complete fire alarm system. Water flow devices are supplied and installed by the

Sprinkler Contractor and wired by this Contractor. Include tie-in to fire sprinkler flow and tamper switch. (fire dampers, smoke detectors, remote testing switches are all part of this contract)

35. Provide all heat tracing and insulation systems as required.
36. Coordinate closely with the work of the Special Systems contractor. This contract (electrical) provides all infrastructure, conduit and raceways required for the Special Systems work. Provide pull strings and boxes for all systems. (voice, data, communication, fire alarm, AV systems, Audio systems, and public address system, clock system etc.) Include all required sleeving, sealing and fire sealing for raceways and conduits through walls, floors, ceilings etc. for this work.
37. This contract shall provide and install wire mesh cable tray if indicated.
38. This contractor shall provide and install 4' conduits as shown for low voltage distribution.
39. This contractor shall provide and install 2' conduits into each space above the ceiling for low voltage distribution.
40. Coordinate, review and fully understand and integrate all cable tray, raceways and infrastructure interior or exterior that may be indicated on all contract documents including the T series drawings.
41. Lightning protection with master UL certification. Coordinate with the Carpentry and Roofing contractors.
42. Coordinate and provide a complete grounding system for the entire project. This includes but is not limited to the building columns, interior spaces, exterior wall assemblies, Electrical rooms, IDF and IDF rooms) and provide any testing and reports required.
43. As-built drawings in both hard copy, electronic and final BIM modelling per contract documents.
44. Provide rough-in and final connection and related work for equipment provided under other contracts (i.e. kitchen, HVAC, sprinkler, motorized doors, etc.). Provide power to automatic hardware. Low voltage wiring from the controller to hardware shall be provided by the Doors, Frames and Hardware Contractor. Include power panels and power supplies supplied by other trades.
45. Provide complete infrastructure(raceways, pull strings and boxes) for video surveillance systems.
46. This contractor shall include within their bid the incorporation of **150** hours of CO OP participation by a NCCVT student. Contractor to comply with project documents and requirements set forth in 19 del. C.ch.5
47. Perform certification testing for all wiring and systems supplied by this contract scope.
48. Provide all BIM services as specified in Section 013700 BIM Execution Plan. As part of the coordination process all contractors are responsible for obtaining a Revizto license that encompasses the entirety of this project. The cost of this license is \$1,500 and shall be included in your base bid proposal.

49. Provide access doors and frames for all access to Structured Cable components or equipment that require routine or periodic maintenance. Installation of access doors and frames provided by the Metal Stud & Drywall Contractor. (provide (5) 2'x2' access panels within your base proposal)
50. Provide pricing for alternates as described in Section 012300-Alternates.
51. Include within this contracts base bid an allowance of \$25,000 for work to be determined by owner and construction manager. Unused allowance funds to be returned to the owner.

CONTRACT NO. E-17: SPECIAL SYSTEMS

- A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

Technical Specification Sections:

Division 0	Bidding and Contract Requirements
Division 1	General Requirements
Division 26	Electrical (coordination of work)
Section 078400	Firestopping
Section 079200	Joint Sealants
Section 270500	Telecommunications Pathways and Spaces
Section 271000	Structured Cabling
Section 272000	Network Equipment
Section 274116.63	Integrated Audio Video Systems Equipment (Addendum #3)
Section 280501	Security Pathways and Spaces
Section 281000	Intrusion Detection System
Section 281100	Access Control System
Section 282000	Video Surveillance System

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Provide a complete Special System package as to include but not limited to, structured cabling, network equipment, AV systems, intrusion detection, access controls and video surveillance
2. **This contractor to provide all work associated with Section 274116.63 Integrated Audio Video Systems Equipment complete. (Addendum #3)**
3. Telephone and voicemail system including telephone handsets and patch cables from device to jack will be provided by owner.
4. The electrical contractor shall provide and install the fire alarm system, this contractor (Special Systems) will wire fire alarm terminations, and programming of electrified hold open hardware. Low voltage power to electrified hold open hardware provided by this contract. Hold open hardware provided by Carpentry and General Work Contractor.
5. Provide complete intrusion system.
6. Provide access control and security management system complete. Provide coordination with door and frame installation for a complete system. The contractor responsible for supplying the doors, frames, and hardware shall provide all wiring and accessories from the power supply (or junction box) to the door hardware. The contractor responsible for installation of doors and hardware shall provide terminations from door hardware to door whip, from door whip to power transfer, and from frame whip to power transfer. Frame whip shall be secured and protected by the door, frame, and hardware contractor(s) for the direct access of the Special Systems Contractor. Termination of the frame whip to the power supply (or junction box) shall be

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provided by the Special Systems Contractor. Power supply shall be furnished by the door, frame, and hardware contractor(s) and installed by the Special Systems Contractor. The Special Systems Contractor shall provide low-voltage wire from the card reader to the access controller, from the status switch (door contact) to the access controller, from access controller to the power supply (or junction box), and from power supply (or junction box) to power supply (or junction box) as necessary. The Electrical Contractor is responsible for providing 120v circuits to all power supplies and/or transformers as indicated in the documents. The Electrical Contractor shall provide conduits, device boxes, raceways, and pull strings for low-voltage wiring at doors receiving electronic, security, or access control hardware. Electrical contractor shall provide a junction box above each door scheduled to receive a card reader and a pathway & pull string. A mock-up shall be field installed and coordinated by all related Contractors for review prior to commencing work.

7. Provide a complete CCTV - Network Digital Video surveillance System.
8. Provide all patch cords from communication port (jack) to each device included in this Contractor's scope. Patch cords at source (MDF/IDF) from patch panel to network switch provided by owner.
9. Provide all patch cords for switches.
10. Supply and install any fiber lines need for a complete installation including terminations.
11. Provide all testing of all installations.
12. Provide and install the racks, switches, uninterrupted power supplies etc. for a complete installation.
13. Coordinate all WAP's as per the specifications if supplied by the owner, install if not supplied provide and install under this contract.
14. This contractor shall own all notes as per the T series drawings unless note otherwise in the scope of this contract or the electrical contract.
15. Provide coordination of the work of this contract with the Electrical including final equipment locations. This contractor must coordinate with Electrical Contractor as indicated on the drawings and as specified. The Electrical Contractor shall provide all device boxes, conduit and pull strings to circuits for special systems as indicated and also to provide 120 Volt circuits for all Special Systems. This Contractor will be responsible for providing independent support systems, as indicated in the specifications, for all cable and wiring installed by this Contractor in locations where pathways and raceways are not required by the documents. All runs of cable/low voltage in open areas shall be installed in conduit. If raceways are required for the scope of this contract and they are not identified, this contractor shall provide.
16. This contract includes all Division 0 and Division 1 General Requirements. All commissioning requirements are identified in Division 1 and are a requirement of this contract.
17. This contractor shall be on site to coordinate when walls are being installed for penetrations and sleeve installations. If penetrations and sleeves are missed, this will be the responsibility of this

contractor to cover associated costs of fixing.

18. Provide access doors and frames for all access to Special Systems components or equipment that require routine or periodic maintenance. Installation of access doors and frames provided by the Metal Stud & Drywall Contractor.
19. Provide all network cabling including wiring, devices, and terminations to communication devices identified in plans and referenced on "Communications Outlet Configuration" chart on Drawing E-501. Two (2) terminations should be provided (1) at the source (MDF/IDF patch panel) and (1) at the communication port (jack) in all instances.
20. This contract shall provide communication wiring from the (3) access control panels to the source (MDF/IDF patch panel) including terminations on both ends. Location of access control panels to be coordinated with the documents and the Construction Manager prior to installation.
21. This contractor shall provide communication wiring from the intrusion control headend to the source (MDF/IDF patch panel) including terminations on both ends. This communication wiring shall include (1) dedicated POTS line from the MDF room to the intrusion control dialer. Location of intrusion control headend to be coordinated with the documents and Construction Manager prior to installation.
22. This contractor shall provide communication wiring from the Fire Alarm Control Panel (FACP) to the source (MDF/IDF patch panel) including terminations on both ends. This communication wiring shall include (2) dedicated POTS line from the MDF room to the FACP dialer(s). Location of FACP to be coordinated with the documents and the Construction Manager prior to installation.
23. This contractor shall supply communication wiring from the intercom/public address amplifiers to the source (MDF/IDF patch panel) including terminations on both ends. Location of amplifiers to be coordinated with the documents and the Construction Manager prior to installation. Contractor should assume (3) amplifiers, one located in each MDF/IDF.
24. This contractor shall provide communication wiring from the Building Management System headend to the source (MDF/IDF patch panel). Location of Building Management System headend to be coordinated with the documents, the Mechanical Contractor, and the Construction Manager prior to installation.
25. Provide installation for all wireless access points furnished by owner. Patch cords from device to communication port (jack) provided by this Contractor.
26. Provide penetrations through walls, floors, etc., including cutting, patching and fire safing.
27. Provide all design and coordination necessary to provide complete systems.
28. Provide and coordinate for inspections and testing.
29. Provide fire resistive sealants for the work of this contract.
30. Provide pricing for alternates as described in Section 012300-Alternates.

31. Provide video documentation of training on systems.
32. Provide at least a 48 hour notice prior to any delivery. All deliveries are to be between 7:00 AM and 3:30 PM.
33. This is not a secure site. All contractors are responsible for concealing, locking and/or removing any materials on a daily basis. NCCVT and EDiS will not be responsible for any lost tools, materials or equipment.
34. This contractor must provide a silica exposure plan that meets or exceeds the new 2017 silica OSHA requirements before any work can commence. At a minimum, it must be incorporated into the company safety plan, include all monitoring, testing, limits exposure, provide respiratory plan and/or equipment modifications such as adding water to equipment during exposed work and keep records of exposure.
35. Contractor must provide additional crews as needed to maintain the project schedule.
36. This contractor shall include within their bid the incorporation of 75 hours of CO OP participation by a NCCVT student. Contractor to comply with project documents and requirements set forth in 19 del. C
37. Provide all BIM services as specified in Section 013700 BIM Execution Plan. As part of the coordination process all contractors are responsible for obtaining a Revizto license that encompasses the entirety of this project. The cost of this license is \$1,500 and shall be included in your base bid proposal.
38. Complete Stadium Sound Systems as per Design Documents
39. Include within this contracts base bid an allowance of \$20,000 for work to be determined by owner and construction manager. Unused allowance funds to be returned to the owner.

CONTRACT NO. E-18: FINAL CLEANING

- A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials, and equipment for:

Technical Sections:

Division 0	Bidding and Contract Requirements
Division 1	General Requirements

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. The work of this contract shall include the final cleaning of both the Buildings listed in BP-E and the final cleaning of the New Hodgson Vo-Tech H.S. Documents for the New HS will be listed in Attachment #3 in the drawing set.
2. The New Hodgson HS building will be available for review if the bidders desire. The construction will not be complete and there is no implied references to anything other than the contract documents. If you wish to walk the building under construction, contact Hayley Savage at hsavage@ediscompany.com or Kevin Lucas at klucas@ediscompany.com
3. Clean all window units, interior and exterior. (provide all lifts and equipment to access the windows) No equipment will be allowed in grass or planting areas, only on paved surfaces.
4. Protection of existing surfaces, floors, walls, grass etc. is the responsibility of this contractor.
5. Clean interior door glass, side glass, vestibules, and entrance doors.
6. Vacuum all floor areas, i.e., carpet, vinyl floor, ceramic tile, epoxy floor, seamless floors, etc.
7. Wax all flooring products that have Mfg. recommendation requiring waxing, Apply 2 coats of wax, coordinate the type of wax with NCCVT prior to starting any waxing operation. **This contractor to provide two (2) coats of wax as described on all Quartz tile and Terrazzo flooring. (Addendum No. 1)**
8. Clean and polish the following areas:
 - a. Casework and cabinets - interior of units and exterior of units, complete
 - b. Countertops
 - c. Soffits
 - d. All woodwork, i.e., railings, baseboards, doors, etc.
 - e. Science casework and fixtures. (include hood assembly)
 - f. Vinyl base
 - g. Wall protection system
 - h. Ceramic tile walls
 - i. Miscellaneous metals
 - j. Window frames
 - k. Metal lockers
 - l. Kitchen equipment, coolers, freezers, exhaust hoods etc.

- m. Clean and polish all cleanouts and drains
- 9. Wet mop/clean and polish vinyl floors, epoxy flooring, seamless floors, Terrazzo floors per manufacturer's recommendations.
- 10. Prior to cleaning and polishing any surfaces this Contractor shall confirm the cleaning requirements from the manufacturer's literature provided for each separate surface. All cleaning should conform to these requirements.
- 11. Clean and polish all plumbing fixtures, i.e., sinks, showers, tubs, toilets, etc.
- 12. Dust all lighting fixtures (Note: Do not touch light fixtures with bare hands)
- 13. Clean and polish all stainless steel hardware, doors, equipment, sinks, etc.
- 14. Provide a final cleaning of the kitchen prior to all inspections (Include two separate cleanings)
- 10. Include multiple trips to complete scope as follows: Include (6) Phases of cleaning to be determined by owner and CM. This includes full remobilization costs, including equipment, manpower and supplies.
- 11. This contractor shall include an Allowance of \$30,000 for work to be determined by the CM and NCCVT. Any allowance dollars not utilized will be returned to the owner.

CONTRACT NO. E-19: GENERAL LABOR AND CLEAN-UP

- A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

Technical Specification Sections:

Division 0	Procurement and Contract Requirements
Division 1	General Requirements

This contract also includes, but is not necessarily limited to, all labor, materials, and equipment for the following:

1. This contractor shall provide General labor to the project the direction of the owner and project manager.
2. Include within the Base Bid for this contract a \$7,500 allowance for material handling tools. To include but not limited to, wheeled bins for trash removal, shovels, brooms, trash bags etc. purchased materials shall be tracked with receipts and verified. Any funds left unspent will be returned to the owner via credit change order. (all tools purchased under this allowance shall be organized and turned over to the owner at completion of the work)
3. The contract shall include a total ~~5000~~ 7000 (Addendum No. 1) manhours of general labor to be scheduled by the Construction Manager. The work will start February 2026 and the duration of the coverage could extend to ~~15 May~~ July 2027. (Addendum No. 1) This work may be scheduled anytime within the scheduled date range without penalty or additional costs to NCCVT or the CM. These hours may be utilized for Phase II or Phase I work.
4. The contract shall include a total 3000 manhours of general labor to be scheduled by the Construction Manager. This portion of work will be associated with moving equipment, furniture, loose items and debris from the existing school and new building as directed. The crew size required will be in the range of (10) laborers per day for a period of 25 days. **during this work The initial 10 man crew will mobilize on site early June 2026 to begin removal of loose furniture and items from the existing school. 10 men will be required for 25 calendar days straight.** (Addendum No. 1) The remaining hours will then be scheduled on an as needed basis. The work will start June 2026 and the duration of the coverage could extend to 15 May 2027. This work may be scheduled anytime within the scheduled date range without penalty or additional costs to NCCVT or the CM. These hours may be utilized for Phase II or Phase I work.
5. A unit price will be provided by this contractor that will pertain to any hours that may be deducted or added to this contract. Any hours not utilized under this contract will be returned to the owner at the identified unit cost amount per hour.
6. Pay Applications each month will be backed up with daily tickets and a complete accounting of the monthly hours utilized. Field Superintendent or hid designated representative shall sign all daily tickets.
7. The owner and CM have the right to request replacement of any personnel provided to service this

contract, without obligation or explanation.

CONTRACT NO. E-20 FLAGGER ENTRANCE PROTECTION

A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

- Technical Specification Sections:

Division 0	Procurement and Contract Requirements
Division 1	General Requirements

This contract also includes, but is not necessarily limited to, all labor, materials, and equipment for the following

1. This contractor to provide a traffic Maintenance/Flagger individual **or individuals as required** to manage the entrance and exit traffic at the New Hodgson HS project as directed by the Construction Manager.
2. This contractor shall supply the flagger with all necessary flagger materials, pedestrian and vehicular signage/placards and required PPE as required to perform the task of maintaining vehicular and pedestrian access to the project sight or any area within the site directed by the CM.
3. The contract shall include a total of 1500-man hours of flagger coverage, to be scheduled by the Construction Manager. The work will start June 15, 2026 and the duration of the coverage could extend out to May 30, 2027. This work may be scheduled anytime within the scheduled date range without penalty or additional costs to NCCVT or the CM.
4. A unit cost will be provided by this contractor that will pertain to any hours that may be deducted or added to this contract. (see Unit Cost section)
5. This individual must be trained and certified to perform the duties of a traffic maintenance flagger. This individual must also be OSHA 40 Certified.
6. All flaggers that will be utilized for this contract shall be trained and certified by one of the following recognized flagger certification programs.
 - American Traffic Safety Services Association (ATSSA) Flagger Certification Program – In classroom Training.
 - American Traffic Safety Services Association (ATSSA) Flagger Certification Program – Online Flagger Training Program.
 - OnlineFlagger.com – Online ATSSA Flagger Training Program.
 - Laborer’s International Union of North America (LIUNA) Work Zone Safety Program, provided by the Construction Craft Laborers Training and Apprenticeship Fund of New Jersey and Delaware – includes flagger certification and Traffic Control Supervisor certification.
 - Delaware Safety Council Flagger Certification program.
7. Provide in the base bid \$10,000 allowance for work as directed by the Construction Manager.

CONTRACT NO. E-21 – JOINT SEALANTS AND PREFORMED JOINT ASSEMBLIES
(Addendum No. 1)

- A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials, and equipment for:

Technical Specification sections:

Division 0	Bidding and Contract Requirements
Division 1	General Requirements
Section 078400	Firestopping
Section 079100	Prefomed Joint sealants
Section 079200	Joint Sealants

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Provide required caulking at control and construction joints.
2. Provide all preformed joint sealant products if indicated on the documents.
3. Provide caulking of masonry to masonry.
4. Provide within your Base Bid proposal (80) man hours and \$3000 in materials to be utilized for Misc. fire safing and Fire sealants that may be required due to agency walk throughs and inspections. This work shall only be authorized by NCCVT or EDiS. Any remaining funds shall be returned to the owner via credit change order.
5. Provide caulking of vertical joints on exterior metal panels to adjacent materials (Metal Panel contractor to provide sealants and caulking between panels and as required to seal their assembly, including where metal panels sit on masonry.)
6. Provide caulking related to interior glazing. Caulking of interior perimeter of new aluminum windows, storefront and curtainwall to finished surfaces to be provided by this contract.
7. Provide caulking of exterior perimeter of hollow metal door frames, including overhead doors.
8. Provide caulking of interior perimeter of hollow metal door frames to masonry. (HM frames to drywall shall be provided by the Painting contractor)
9. Provide caulking of all hollow metal frames to the floor. Coordinate caulking with flooring materials.
10. Provide caulking of all interior exposed drywall to masonry and metal wall panels.
11. Provide caulking at the tops and bottoms of all exterior and interior column covers.

12. Provide caulking of all interior exposed concrete slab control joints, expansion joints and perimeter slab to walls.
13. Provide caulking for interior perimeter of sinks, urinals, toilets, bath accessories, toilet partitions, fire extinguisher cabinets, hose reel cabinets, gas cabinets and any other accessories identified on the contract documents. (work as indicated on contract documents)
14. Provide caulking of joints in ceramic tile areas, including and ceilings.
15. Examine areas and conditions where joint sealers are to be installed and correct any conditions detrimental to the proper and timely completion of this scope of work. Do not proceed with work until unsatisfactory conditions are corrected to permit proper installation.
16. Provide mock ups of all products and adhesion tests for exterior caulking.
17. Provide custom colors or all caulks and sealants.
18. Protection and cleaning of adjacent surfaces to be the responsibility of this contractor.
19. This contractor shall include the Pollution Insurance coverage as specified in the contract documents.
20. This is not a secure site, the contractor is responsible for the safe storage of all of their materials. NCCVT and EDiS will not be responsible for lost or stolen materials
21. All subbase preparation, priming etc. to be performed before caulking is applied.
22. Include within this contracts base bid an allocation of \$10,000 for work to be determined by owner and construction manager. Unused allocation funds to be returned to the owner by means of a credit change order.

END OF SECTION

SECTION 012100 - ALLOWANCES

1. RELATED DOCUMENTS

- A. The general provisions of the Contract, including the Conditions of the Contract (General, Supplementary and other Conditions, if any) and Division 1 as appropriate, apply to the Work specified in this Section.
- B. Refer to provisions in AIA Document A232 – 2019 EDITION, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, CONSTRUCTION MANAGER AS ADVISOR EDITION, for requirements in addition to those specified in Division 1.
- C. Refer to Scope Information Sheets for all contracts bound in the Project Manual under Section 011100 - SUMMARY OF WORK. The Scope Information Sheets describe generally the work included in each contract, but the work is not necessarily limited to that described.
- D. For work being constructed under separate prime contracts, provisions of this Section apply to each contract being bid.
- E. Include in the Contract Sum all lump sum and unit cost allowances stated in the Contract Documents.
- F. Designate in the construction progress schedule the delivery dates for products specified under each allowance.
- G. Designate in the Schedule of Values the quantities of materials required under each unit cost allowance.

2. ALLOWANCES FOR PRODUCTS

- A. The amount of each allowance includes:
 - 1. The cost of the product or labor to the Contractor or Subcontractor, less any applicable trade discounts.
 - 2. Delivery to the site.
 - 3. Labor required under the allowance, only when labor is specified to be included in the allowance. If labor is not specified to be included in the allowance, it shall be included in the Contractor's bid and in the resulting Contract Sum.
 - 4. Applicable taxes.
 - 5. Profit and overhead.
- B. In addition to the amount of each allowance, include in the Contract Sum the Contractor's costs for:

1. Handling at the site; including unloading, uncrating and storage.
 2. Protection from the elements and from damage.
 3. Labor for installation and finishing, except where labor is specified to be a part of the allowance.
 4. Other expenses required to complete the installation.
 5. Contractor's and Subcontractor's overhead and profit.
- C. Refer to Scope Information Sheets under Section 011100 - SUMMARY OF WORK for the amount of each lump sum allowance and for work specified in the specification sections listed below.
1. Section 011100 Contract E-01 Demolition and Removal: Provide a \$75,000 allowance for work to be determined by Owner and Construction Manager.
 2. Section 011100 Contract E-02 Sitework & Utilities:
 - a. Provide a \$250,000 allowance soil remediation to be allocated by the Owner/Construction Manager.
 - b. Provide a \$100,000 allowance for work to be determined by Owner and Construction Manager.
 3. Section 011100 Contract E-03 Concrete and Reinforcing: Provide a \$30,000 allowance for work to be determined by Owner and Construction Manager.
 4. Section 011100 Contract E-04 Structural Steel, Joists, Deck, and Misc. Metals: Provide a \$20,000 allowance for work to be determined by Owner and Construction Manager.
 5. Section 011100 Contract E-05 Unit Masonry: Provide a \$25,000 allowance for work to be determined by Owner and Construction Manager.
 6. Section 011100 Contract E-06 General Trades-Carpentry, CFMF, Gyp Assemblies, Act Clgs:
 - a. Provide a \$50,000 allowance for work to be determined by Owner and Construction Manager.
 - b. Provide an allowance of \$325,000 to provide dumpsters for Phase I and Phase II portions of the project. Work to be directed by the owner and CM.
 - c. **Provide an allowance of \$25,000 for the concrete foundations for the scoreboards (Addendum #3)**
 - d. **Provide an Allowance of \$40,000 for the steel support structures for the scoreboards. (Addendum #3)**

7. Section 011100 Contract E-07 Exterior Metal Panels and Pre-Engineered Buildings: Provide a \$20,000 allowance for work to be determined by Owner and Construction Manager.
8. Section 011100 Contract E-08 Roofing: Provide a \$20,000 allowance for work to be determined by Owner and Construction Manager.
9. Section 011100 Contract E-10: Overhead Rolling Doors and Shutters: Provide a \$15,000 allowance for work to be determined by Owner and Construction Manager.
10. Section 011100 Contract E-11 Fluid Applied Flooring: Provide a \$10,000 allowance for work to be determined by Owner and Construction Manager.
11. Section 011100 Contract E-13 Bleachers and Grandstands: Provide a \$10,000 allowance for work to be determined by Owner and Construction Manager.
12. Section 011100 Contract E-14 Fire Protection: Provide a \$10,000 allowance for work to be determined by Owner and Construction Manager.
13. Section 011100 Contract E-15 Plumbing, HVAC, and Controls: Provide a \$30,000 allowance for work to be determined by Owner and Construction Manager.
14. Section 011100 Contract E-16 Electrical, Lighting, and Fire Alarm Systems: Provide a \$25,000 allowance for work to be determined by Owner and Construction Manager.
15. Section 011100 Contract E-17 Special Systems: Provide a \$20,000 allowance for work to be determined by Owner and Construction Manager.
16. Section 011100 Contract E-18 Final Cleaning: Provide a \$30,000 allowance for work to be determined by Owner and Construction Manager.
17. Section 011100 Contract E-19 General Labor and Clean-up: Provide a \$7,500 allowance for material handling tools. To include but not limited to, wheeled bins for trash removal, shovels, brooms, trash bags etc. purchased materials shall be tracked with receipts and verified. Any funds left unspent will be returned to the owner via credit change order. (all tools purchased under this allocation shall be organized and turned over to the owner at completion of the work)
18. Section 011100 Contract E-20 Flagger Entrance Protection: Provide a \$10,000 allowance for work to be determined by Owner and Construction Manager.

3. ADJUSTMENT OF COSTS

- A. Should the net cost be more or less than the specified amount of the allowance, the Contract Sum will be adjusted accordingly by Change Order.

1. For products and labor specified under a unit cost allowance, the unit cost shall apply to the quantities actually used with a nominal allowance for waste, as determined by receipted

invoices, or by field measurement.

- B. At Contract closeout, reflect all approved changes in Contract amounts in the final statement of accounting.

END OF SECTION

STATE OF DELAWARE

DIVISION OF FACILITIES MANAGEMENT

ALLOWANCE AUTHORIZATION

Project:

Architect:

Project No.

Contractor:

AAA No.:

Initiation Date:

The Allowance is allocated as follows:

Total original Contract Allowance was:	\$
Amount of Contract Allowance Access previously authorized:	\$
Adjusted Contract Allowance prior to this authorization is:	\$
The amount of available Allowance will Decrease by this Access Authorization:	\$
The remaining Contract Allowance, after this Access Authorization will be:	\$

Recommended by:
Architect

By (Signature): _____
Date: _____

Accepted by:
Contractor

By (Signature): _____
Date: _____

Approved by:
Owner

By (Signature): _____
Date: _____

SECTION 012300 - ALTERNATES

1. GENERAL PROVISIONS

- A. The general provisions of the Contract, including the Conditions of the Contract (General, Supplementary and other conditions, if any) and Division 1 as appropriate, apply to the Work specified in this Section.
- B. Refer to provisions in AIA Document A232 – 2019 Edition, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, CONSTRUCTION MANAGER AS ADVISOR EDITION, for requirements in addition to those specified in Division 1.
- C. For work being constructed under separate prime contracts, provisions of this Section apply to each contract being bid.

2. BASE BID

- A. The Base Bid shall consist of all Work shown or specified in the Contract Documents, to which Work may be added or from which Work may be deleted for sums stated in Alternate Bids (if any are required to be stated in the bid).
- B. The Base Bid shall include all work in any Subtractive Alternates specified herein.

3. ALTERNATES

Alternate No. 1: Add stadium lighting at main stadium and field.

Alternate: Provide Athletic Field Lighting for the stadium including, but not limited to fixtures, poles and foundations, control panels and all associated wiring. Conduit rough in shall be included in base bid.

Alternate No. 2: Add field lighting to existing practice turf field.

Alternate: Provide Athletic Field Lighting for the existing practice turf field including, but not limited to fixtures, poles and foundations, control panels and all associated wiring. Conduit rough in shall be included in base bid.

Alternate No. 3: Provide Building E1 work associated with your contract scope.

Alternate: Provide all work related to the construction of Building E1 as defined by the contract documents and as associated with your individual contract scopes of work.

The construction of Building E-1 must be coordinated with NCCVT for access and storage. For bidding purposes contractors should include storing all materials and equipment on the Phase II side of the project. School will be in session when E1 is constructed and the school's operation cannot be interrupted. Daily cleanup and

removal of debris/trash is mandatory. Contractors should figure parking at the Phase II portion of the project and carpooling over to the E1 building location. (Addendum No. 1)

Alternate No. 4: Provide Building E5 work associated with your contract scope.

Alternate: Provide all work related to the construction of Building E5 as defined by the contract documents and as associated with your individual contract scopes of work.

Alternate No. 5: Mechanical Preferred Vendors

Alternate: Additional cost to provide mechanical equipment by vendors utilized in the main school to provide continuity of products as indicated below:

EQUIPMENT	PREFERRED VENDOR
ERV's	Venmar
Unit Heaters (Hydronic)	Rittling
Unit Heaters (Electric)	Markel
Airflow Monitoring Station	Air Monitor Electra-Flo
Electric Radiant Heat Panels	Markel
Ductless Split System	Samsung
Automatic Temperature Control System	Radius Systems

Alternate No. 6: Plumbing Preferred Vendors

Alternate: Additional cost to provide plumbing equipment by vendors utilized in the main school to provide continuity of products as indicated below:

EQUIPMENT	PREFERRED VENDOR
Gas-Fired Water Heaters	A.O. Smith
Domestic Water Expansion Tank	Bell & Gossett
Domestic Re-Circ Pump	Bell & Gossett
Backflow Preventers	Zurn (Double check and RPZs)
Water Meter	Niagara
Hose Bibb	Chicago Faucet
Trap Primer Stations	PPP
Plumbing Fixtures and faucets	Zurn
Mop Sink	Stern Williams
Service Sink (SS)	Elkay
Floor Drains/Sinks	Zurn
Hydrants (Exterior, Interior, Roof)	Zurn
Water Coolers (integral bottle filler)	Elkay
Shower Controls	Powers
Gas Pressure Regulator	Maxitrol

Alternate No. 7 - Electrical Preferred Vendors

Alternate: Additional cost to provide Electrical Distribution Equipment by vendors utilized in the main school to provide continuity of products as indicated below:

EQUIPMENT	PREFERRED VENDOR
Electrical Distribution Equipment	Siemens

Alternate No. 8: Audio system basis of design to be audio system mounted on the press box.

Alternate: Provide all work related to the construction of a pole mounted audio system that would be mounted on the Stadium Lighting poles as defined by the contract documents and as associated with your individual contract scopes of work. **(Addendum No. 1)**

Alternate No. 9: Provide brick paver patio area at entrance to main building as shown on Drawing FA-512, See detail E5/A512 and Partial Site Plan A4/A512 for location.

Alternate: Provide all work related to concrete pavers on concrete substrate as defined by the contract documents and associated with your individual contract scopes of work. **(Addendum No. 3)**

END OF SECTION

SECTION 11 40 00
FOODSERVICE EQUIPMENT

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Provide all material, labor, equipment and services required to execute and complete all items of work relating to the food service equipment, both existing and new, all as required to make the resulting facility a fully functional and reliable operating unit in accordance with this Specification. All food service equipment shall be furnished as specified, delivered prepaid, unloaded and uncrated, assembled with all components and accessories connected within the equipment, set-in-place in proper location as indicated on the drawings, leveled and fastened to the wall, ceiling or floor as required, left ready for final utility connections. The work shall include:
 - 1. To prevent extended warehousing of all food service equipment, no pre-ordering of equipment is permitted; schedule ordering of the equipment so that warehousing of the equipment shall not be required for longer than 60 days prior to delivery to the site for installation.
 - 2. All food service equipment shall have a manufacturer extended warranty covering parts and labor for a period of two years which shall take effect only after acceptance and beneficial use by the District. All labor shall be performed by a factory authorized and qualified representative.
 - 3. A “complete and thorough” demonstration and start-up for each item of equipment must be conducted by a qualified manufacturer representative in the use, sanitation and maintenance of the equipment.
- B. Furnishing scheduled items of custom fabricated food service equipment as specified utilizing a food service equipment fabricator listed with the National Sanitation Foundation (NSF) for custom equipment fabrication.
- C. Delivery of food service equipment in factory fabricated containers designed to protect equipment and finish until final installation. Delivery of food service equipment shall be coordinated with the construction schedule. If necessary, delivery of the food service equipment shall be by means other than common carrier to expedite delivery and to maintain project schedule.
- D. Warehousing of the food service equipment in a bonded warehouse and re-delivery of the food service equipment from the storage facility to the project site or arrangement for secured storage at the project site to assure availability of the food service equipment to maintain project schedule.
- E. Field installation of the food service equipment including buy out equipment at the project site including on site receiving and unloading, uncrating from packing containers, conveyance of the

food service equipment from the receiving area to the installation location, erection and assembly of the food service equipment including field welding and polishing of sub assemblies and installation of fixtures and components and setting in place in final location.

- F. Removal and disposal of discontinued items of food service equipment not to be reused including costs for transport and scrapping. This shall include pump-down and reclaim of refrigerant and fire system propellant and disposal costs of all refrigeration systems as required. Utility disconnection and termination of utility services shall be provided by the Plumbing, Electrical and Mechanical (HVAC) Trades.
- G. Removal and disposal of discontinued items of food service equipment not to be reused including costs for transport and scrapping. This shall include pump-down and reclaim of refrigerant and disposal costs of all refrigeration systems as required. Utility disconnection and termination of utility services shall be provided by the Plumbing, Electrical and Mechanical (HVAC) Trades.
- H. Removal, cleaning, servicing, reassemble and reinstallation of items of food service equipment to be reused including warehousing and transportation costs for scheduled items of food service equipment to be refurbished off-site or to be temporarily stored off-site. This shall include pump-down and reclaim of refrigerant and disposal costs of all refrigeration systems as required. Utility disconnection and termination of discontinued services and modification or preparation or relocated utility services shall be provided by the Plumbing, Electrical and Mechanical (HVAC) Trades.
- I. Removal, cleaning, servicing, crating and delivery including costs for transport of items of food service equipment to be reused in an alternate location. This shall include pump-down and reclaim of refrigerant and disposal costs of all refrigeration systems as required. Utility disconnection and termination of utility services shall be provided by the Plumbing, Electrical and Mechanical (HVAC) Trades.
- J. Removal and disposal of all packing material.
- K. All costs for special tools, crane rental or usage cost or rigging as may be required for delivery or installation of the food service equipment.
- L. All work is to be performed by skilled labor utilizing the proper Trades having respective jurisdiction thereto. All work shall be performed at hours required to maintain consistent work schedules with all other Trades without additional cost.
- M. Preparation of dimensioned utility rough-in floor plans coordinated with the Contract Documents and site conditions and the food service equipment manufacturers' utility connection points for all food service equipment.
- N. Assist in the preparation of "chalk-line" mark-up of utility rough-in locations on the building floor at the job site.
- O. Take complete financial responsibility for any and all additional expenses resulting from incomplete or inaccurate rough-in drawings or instructions for the final rough-in dimensioning at the job site.
- P. Provide complete manufacturers' and fabricator shop drawings of all related items of food service equipment.

- Q. Provide competent on site supervision for the coordination of work and to assist and supervise the erection, assembly and installation of the food service equipment, this shall include any moving, shifting or disassembly of the food service equipment to enable work to be performed free of obstruction.
- R. Attend all job conferences and meetings.
- S. Maintaining coordination and control over the form, fit, function and utility requirements of all food service equipment, from placement of purchase orders through Final Acceptance
- T. Provide competent on-site final testing, demonstration and instruction in the use and service of all items of food service equipment in the form of a qualified manufacturer's representative for each item of food service equipment.
- U. Providing access to the custom equipment fabricator's shop for inspection of construction and materials used at any time during the progress of fabrication.
- V. Field verification of all measurements at the project site prior to the fabrication of custom fabricated and buy-out equipment and correct any deviation from the dimensions indicated on any plans and shop drawing which may affect the final form or fit of any item of food service equipment as a result of final building conditions and actual field dimensions.
- W. All food service equipment shall conform to field verified dimensions and to the finished building conditions with edges scribed and sealed to wall surfaces, fitting to and around building obstructions. All joints, seams or surfaces shall be fully sealed with General Electric or equivalent clear silicone sealer.
- X. Field verification of delivery access into and through the building to the final equipment location including access and clearance through hallways, doorways and elevators (cab size and weight restrictions); furnish food service equipment in sections or sub-assemblies as required for access.
- Y. Keeping the premise free from accumulation of waste material and rubbish caused by his work. At the completion of each workday all waste material and rubbish must be removed and all areas swept broom clean.
- Z. Physical damage to equipment, building or previous work completed or in the process of completion shall be repaired or replaced.
- AA. Furnish as part of and affixed to the food service equipment, accessories, components and fixtures furnished standard with the equipment as specified or listed as an option and shall include the following:
 - 1. REFRIGERATION ACCESSORIES: Copper insulated refrigeration tubing, valves, fittings, hangers, high and low pressure control switches, solenoid valves, evaporator coils, expansion valves, condensing units and condensate evaporators.

1.3 SUBMITTALS

- A. Product Data: For each buy-out item of food service equipment indicated. Include manufacturer's model number and accessories and requirements for access and maintenance clearances, water and drainage, power or fuel and service connections including roughing-in dimensions.

- B. Copies of original maintenance and repair manuals including a list of all authorized service agencies responsible for each item of food service equipment.

1.4 QUALITY ASSURANCE

- A. Manufacturer's qualifications shall include a firm that has regularly engaged in the manufacturing of food service equipment of the same type, capacity, performance and size as specified and whose products have been in similar service for not less than five years.
- B. Installer's qualifications shall include a firm with at least three years of successful installation experience on projects with a similar scope to that as required for this project.
- C. Food service equipment dealers' qualifications shall include a firm which is regularly engaged in the purchasing of food service equipment as is a manufacturer authorized agent of the specified equipment for not less than five years. The dealer shall also employ a full time project management staff to oversee the purchase of the equipment in compliance with the specifications, coordinate the form and fit of the equipment to the project site conditions, attend all project meetings, coordinate shop drawing review, coordinate installation with the Trades, coordinate factory training and address all issues as they relate to the satisfactory completion of the facility in compliance with the specifications and related documentation.
- D. Codes and Standards: All food service equipment furnished and installed under this specification shall be manufactured in strict compliance with the following publications or the current or revised related publication as well as all state, national and local codes and agencies having jurisdiction over same:
 - 1. National Electrical Manufacturer Association NEMA
 - a. ICS-77 Industrial Controls and Systems
 - 2. National Electrical Manufacturer Association NEMA
 - a. ICS-77 Industrial Controls and Systems
 - b. 17.4 Local Application System
 - c. 17.13 Water Sprinkler Systems
 - d. 96-76 Installation of Equipment for the Removal of Smoke and Grease Laden Vapors for Commercial Cooking Equipment
 - 3. National Sanitation Foundation NSF
 - a. 11 76 Food Service Equipment
 - b. 4 73 Commercial Cooking and Warming Equipment
 - c. C-2-72 Special Equipment and/or Devices
 - 4. National Electrical Manufacturer Association NEMA
 - a. 57-78 Electric Lighting Fixtures
 - b. 197-78 Commercial Electric Cooking Appliances
 - c. 300 Fire Extinguishing Systems
- E. All food service equipment shall be manufactured in strict compliance with standards as set forth by the National Sanitation Foundation (NSF) including fabrication of custom built equipment and shall be listed with same and shall bear their seal. Any item of food service equipment lacking the NSF seal will be rejected.

- F. All electrically operated food service equipment shall be constructed in strict compliance with standards as set forth by the Underwriters Laboratories (UL) and shall utilize approved components and assemblies and shall bear the label thereof.
- G. All refrigeration equipment and all pressurized vessels shall be constructed, approved, inspected, registered and stamped and installed in strict compliance with the American Society of Mechanical Engineers (ASME), state and local codes for Unfired Pressure Vessels and all other agencies having jurisdiction thereof.
- H. Product Options: Drawings indicate food service equipment based on the specific products indicated. Other manufacturers' equipment with equivalent size and performance characteristics may be considered.
- I. Preinstallation Conference: Conduct conference at Project site to comply with requirements of Division 1 Section "Project Meetings." Review methods and procedures related to food service equipment including, but not limited to the following:
 - 1. Review access requirements for equipment delivery.
 - 2. Review equipment storage and security requirements.
 - 3. Inspect and discuss condition of substrate and other preparatory work performed by other Trades.
 - 4. Review structural loading limitations.
 - 5. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment and facilities needed to make progress and avoid delays.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Deliver food service equipment as factory-assembled units with protective crating and covering.
- B. Store food service equipment in original protective crating and covering and in a dry location.

1.6 WARRANTIES

- A. General Warranty: The special warranty specified in this Article shall not deprive the District of other rights the District may have under other provisions of the Contract Documents and shall be in addition to and run concurrent with other warranties made by the Contractor under requirements of the Contract Documents.
- B. Refrigeration equipment shall include start-up and two year parts and labor warranty on the entire refrigeration system and manufacturers five year parts warranty on hermetic scroll and semi-hermetic sealed compressors.

PART 2 - PRODUCTS

2.1 MATERIALS AND WORKMANSHIP

2.2 ACCESSORIES

- A. Casters: NSF-certified standard-duty stainless-steel swivel stem casters with 5-inch (125-mm) diameter wheels, polyurethane tires with 1-inch (25-mm) tread width and 300-lb (90-kg) load capacity per caster. Provide brakes on 2 casters per unit.

2.3 FABRICATION, GENERAL

- A. All exposed surfaces of the food service equipment shall be free from bolts, screws and rivet fastenings. Wherever bolts are required they shall be of similar composition and finish as the metal to which they are applied.
- B. Wherever practical all food service equipment and fixtures shall be factory or shop fabricated of one-piece construction, shipped to the project site as one unit completely assembled.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and conditions with Installer for compliance with requirements for installation tolerances, service-utility connections and other conditions affecting installation and performance of food service equipment. Do not proceed with installation until unsatisfactory conditions have been corrected.
- B. Examine roughing-in for piping, mechanical and electrical systems to verify actual locations of connections before installation

3.2 INSTALLATION

- A. Set each item of fixed food service equipment securely in place, level and adjust to correct height.

3.3 PROTECTION AND CLEANING

- A. Provide final protection and maintain conditions in a manner acceptable to District, Manufacturer and Installer that ensure food service equipment is without damage or deterioration at the time of Substantial Completion.
- B. After completion of the food service equipment installation and completion of other major work in the food service area remove protective coverings and clean and sanitize all food service

equipment both internally and externally. Restore exposed and semi-exposed finished to remove abrasions or other surface damage, polish exposed metal surfaces and touch-up painted surfaces. Replace work which cannot be successfully restored.

3.4 COMMISIONING

- A. Delay start-up of the food service equipment until utility services have been installed, completed and tested, balanced and adjusted for pressure and voltage, and until water and steam lines have been treated and cleaned for sanitation. Before start-up of the food service equipment lubricate in accordance with manufacturer's instructions.
 - 1. Coordinate food service equipment startup with service-utility testing, balancing and adjustments. Do not operate steam lines before they have been cleaned and sanitized.
- B. Provide on-site demonstration and formal technical training by the manufacturer's technical representative for each item of food service equipment as required to instruct the District and its personnel in the safe operation and sanitation and maintenance of the food service equipment.
- C. Test each item of food service equipment for proper operation.
 - 1. Repair or replace equipment that is defective in operation including units that operate below required capacity or that operate with excessive noise or vibration.
 - 2. Test refrigeration equipment's ability to maintain specified operating temperature under heavy-use conditions. Repair or replace equipment that does not maintain specified operating temperature.
 - 3. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
 - 4. Test motors and rotating equipment for proper rotation and lubricate moving parts according to manufacturer's written instructions.
 - 5. Test water, drain, gas, steam, oil, refrigerant and liquid-carrying components for leaks. Repair or replace leaking components.
 - 6. Train District's maintenance personnel on procedures and schedules related to startup and shutdown, troubleshooting, servicing and preventive maintenance for each food service equipment item.
 - 7. Review data in the operation and maintenance manuals. Refer to Division 1 Section "Contract Closeout".
 - 8. Review data in the operation and maintenance manuals. Refer to Division 1 Section "Operation and Maintenance Data".
 - 9. Schedule training with District through Construction Manager with at least seven days advance notice.

3.5 SCHEDULE OF EQUIPMENT

- A. Equipment Schedule: Refer to all Contract Documents pertaining to the food service areas. Equipment itemized along with brands and model numbers and salient features establish the standard for construction, operation and engineering criteria.

- B. Equipment indicated below is intended to establish the standard of quality of the food service equipment. Alternate “Equal” products by other manufacturers may be considered if equivalent in design, performance, durability and function.
- C. This document is the intellectual property of Corsi Associates and as such use by any other entity is prohibited.

ITEM #01 REACH-IN FREEZER
Quantity: One (1)
Manufacturer: True / Continental / Victory
Model: TS-43F-HC
Options: Stainless steel interior
 Stainless steel exterior
 Stainless steel case back
 Field reversible doors
 Exterior mounted digital thermometer
 Automatic condensate evaporator
 Castors, 4”
 Plug and cord set
 Pan slides on top sections
 Shelves on bottom sections

ITEM #02 REACH-IN REFRIGERATOR
Quantity: One (1)
Manufacturer: True / Continental / Victory
Model: TS-43-HC
Options: Stainless steel interior
 Stainless steel exterior
 Stainless steel case back
 Field reversible doors
 Exterior mounted digital thermometer
 Automatic condensate evaporator
 Castors, 4” (set of 4)
 Plug and cord set
 Pan slides on top sections
 Shelves on bottom sections

ITEM #03 REFRIGERATED MERCHANDISER
Quantity: One (1)
Manufacturer: True / Continental / Traulsen
Model: GDM-49-HC~TSL01
Options: Stainless steel interior
 Stainless steel exterior
 Stainless steel case back
 Field reversible doors
 Exterior mounted digital thermometer
 Automatic condensate evaporator
 Castors, 4” (set of 4)
 Plug and cord set

NEW CASTLE COUNTY VOCATIONAL –
TECHNICAL SCHOOL DISTRICT

PAUL M. HODGSON VOCATIONAL
TECHNICAL HIGH SCHOOL

ITEM #04 ICE MAKER
Quantity: Two
Manufacturer: Hoshizaki / Manitowoc / Ice-o-Matic
Model: KM-660MAJ

ITEM #04A STORAGE BIN
Quantity: Two
Manufacturer: Hoshizaki / Manitowoc / Ice-o-Matic
Model: B-300SF

General contractor shall provide wall blocking as required for mounting.

END OF SECTION 114000

SECTION 13 12 50 - GRANDSTANDS AND PRESS BOX

PART 1 GENERAL

1.01 SCOPE OF WORK

- A. Provide outdoor permanent grandstands and press boxes as detailed in these performance specifications. Drawings required with bid for clarification of design intent.
- B. Provide necessary engineering, material, freight, installation and supervision to provide grandstand seating systems in accordance with the following performance criteria.

1.02 PERFORMANCE CRITERIA

- A. The minimum acceptable standards of design are:
 - 1. Grandstand Design to match schematic layouts. Front Walkway to be 6'-2" deep. Overall length per plans. Grandstand is a clear span I-beam substructure designed for L/200.
 - 2. Decking System - Tread depth and riser heights to be per schematic layouts
 - i. Interlock decking system with secondary gutter system. Home side grandstand
 - ii. Tongue and groove semi-closed deck with angle closures. Visitor grandstand
 - 3. Aisle layout is per schematic plans. There shall be center aisle rails or end aisle rails per code.
 - 4. Handicap seating areas per schematic plans and in accordance with local, state and national guidelines.
 - 5. Finishes to be "hot dipped" galvanized on the steel understructure, clear anodized on the seat boards. Riser boards to be Dur-Kyn painted finish from standards. Black painted aluminum aisle nosing strips at aisles and stairs risers. Perimeter steel railing risers to be hot dipped galvanized, horizontal pipe rails to be clear anodized and utilizes 6 ga. black vinyl chain link fencing with a 2" mesh pattern.
 - 6. Aluminum footboards added to the standard mill finish is an applied Premium traction coating system. Provide a premium traction finish that achieves a "high traction" rating as defined by the ANSI/NFSI B 101.1 standards with a minimum of .80 slip co-efficiency rating. The premium traction system must be verified, tested, and proven. Finishes must prevent any surface oxidation staining. Required on grandstand footboards, stairs, and ramps.
 - 7. Front façade on both the home side and visitor stands are dur-kyn high performance painted finish aluminum riser boards with concealed fasteners.
- B. Signage
 - 1. Properly label all handicap seating areas
- C. Press Box – Type II construction
 - 1. Press box to be constructed of steel framing.
 - 2. Viewing glass per plans.
 - 3. Full length rooftop filming platform.
 - a) Home side stand to have an exterior rear stair access to rooftop filming platform.
 - b) Home side stand to have a steel framed roof system covering the entire width and depth of the platform.

4. Interior finishes shall be as listed on the plans without deviations.
- D. An AISC certified steel fabricating plant is a requirement of this project for quality control and assurances. See Section Quality Assurance, C.
- E. Stairs and ramps per plans and in accordance with State and Local codes and guidelines.

1.03 RELATED WORK/ RELATED SECTION

- A. In accordance with plans and specifications:
 1. Demolition of existing if required
 2. Concrete Foundations/Pads
 3. Main electrical feed and final hook-up to press box
 4. Press box Sound System
 5. Surveying, site preparation and final grading
 6. Access to the site for installation equipment and staging.

1.04 QUALITY ASSURANCE

- A. Manufacturers Qualifications:
 1. Manufacturers must have a minimum of ten years of experience in the manufacturing of grandstands and press boxes under current company name.
 2. Manufacturer must provide five references of similar projects within the State of Delaware. References shall include scope of work, contract amount, owner's name and phone numbers, contract completion date and actual completion date.
- B. Welders must be AWS certified; manufacturing capabilities in accordance with the governmental agencies having jurisdiction.
- C. Steel fabrication to be done in an AISC certified plant or in compliance with IBC Chapter 17. A third party AISC approved inspection agency must be hired to complete and properly document these inspections. The agency must disclose any possible conflicts of interest so that objectivity can be confirmed. Certified reports shall be submitted directly to the architect for confirmation. All associated costs shall be inclusive with the manufacturers bid.
- D. Installers Qualifications:
 1. Factory-trained and experienced in the installation of grandstands.
 2. Source Quality Control: Mill Test Certification.
 3. Single Source Responsibility: Obtain all of each distinct material required from a single manufacturer.
- E. Code Compliance: Provide aluminum bleachers to meet or exceed all State and Local applicable codes and in compliance with the International Building Code and the IBC/ICC National Code and CABO/ANSI A117.1 Barrier Free Sub code, Current Adopted Edition.

1.05 SUBMITTALS

- A. Product Data: Submit technical data for each distinct type of material, component and accessory indicated.
 1. Include information which specifically details physical properties and performance characteristics.
- B. Shop Drawings: Manufacturer to submit shop drawings. After award submittal drawings should be submitted with structural design calculations signed and sealed by a licensed

Professional engineer (state of project location), and schedules for type, location, quantity and details of all aluminum components required for this project.

1. Shop drawings to be in compliance with International Building Code and all other State and Local Codes and Regulations.
 2. Concrete designed per American Concrete Institute Guidelines
 3. Samples: Submit manufacturer's samples upon request.
- C. Certificate: Submit manufacturer's certification that materials furnished comply with requirements indicated and also in compliance with the International Building Code along with all other applicable Federal, State and local codes, and that materials meet or exceed test requirements indicated.

1.06 WARRANTY

- A. Submit a written warranty signed by the manufacturer, installer, and the contractor, guaranteeing to correct failures for a period of one (1) year after substantial completion, without reducing or otherwise limiting any other rights to correction which owner may have under the contract documents. Failures are defined to include faulty workmanship or faulty materials. Correction may include repair or replacement.

1.07 BUILDING CODES

- A. Comply with all applicable which includes but not limited to the following:
1. International Building Code- Current Edition
 2. AISC Manual of Steel Construction, 9th Edition
 3. Aluminum Association of America Guidelines
 4. International Building Code Guidelines for Accessibility, Current Edition
 5. American Concrete Institute
 6. COMcheck approval required for the Press box using the 2018 energy conservation code
- B. The bleacher shall be designed to support, in addition to its own weight, a uniformly distributed live load of not less than 100 pounds per square foot of gross horizontal projection of the bleacher. And 6 pounds per square foot of dead load on seats, footboards, risers and steel framing.
- C. All seat and footboard members shall be designed to support not less than 120 pounds per linear foot. The bleacher shall be designed to resist, with or without live load, horizontal wind load appropriate for local conditions. It shall also be designed to resist, in addition to the live load, sway forces applied to the seats in a direction parallel to the length of the seat planks 24 pounds per linear foot; and, in a direction perpendicular, stresses in aluminum members and connections shall not exceed those specified for Building Type Structures by the Aluminum Association.
- D. General: The structure shall be properly braced for wind and construction loads until all structural elements are secured. Lateral and longitudinal bays shall be cross-braced as required. Guardrails shall be of adequate size, location, and height to meet specified codes and designed to carry required loads. Exit stairs and intermediate aisle stairs shall be completely closed, in the direction of travel and shall have a maximum rise of 7" and a minimum tread of 11".
- E. Code Compliance: Submittals shall be based upon specifications and drawings contained in the bid documents. Architect will not review any design or product changes prior to the bid date. Design changes to reduce overall aisle egress calculations or number of stair and ramp exits will not be allowed. All bidders must bid in accordance with these specifications.

1. The Bleacher Contractor shall be responsible to meet the code interpretation provided in the bid documents and modify as required by state or local governmental review boards.
2. Calculations that demonstrate code compliance with egress and exit of aisles, stairs, and ramps are a required submission with approved drawings.

1.08 MAINTENANCE

- A. Manufacturer's Recommendations:
 1. Owner conducts annual visual inspection and required maintenance of grandstand and press box to assure safe conditions.
 2. It is also recommended that a professional engineer, registered architect or certified grandstand representative performs inspections biennially.

PART 2 - PRODUCTS

2.01 PRODUCT MANUFACTURERS

- A. Basis of design is Southern Bleacher Company, Graham, TX.
<https://www.southernbleacher.com/> or approved others.
- B. Products by other manufacturers that meet the basis of design specification and design intent may be provided including, but not limited to:
 - Sturdisteel. Waco, TX. <https://www.sturdisteel.com/>
 - GT Grandstands, Plant City, FL. <https://www.gtgrandstands.com/>
- D. Substitutions: See Section 016000 - Product Requirements.

2.02 GALVANIZED STEEL CLEAR SPAN I-BEAM GRANDSTAND - HOME STAND / LEG TRUSS SYSTEM – VISITOR STAND

- A. Product Description Home Side Interlock Decking System. Visitor stand is to be tongue and groove semi-closed decking with angle closures, per plans.
 1. The intent of the product design is to reduce and minimize the deflection of the aluminum deck and allow for future reconfiguration of seating as may be needed. All individual deck members shall be fitted together longitudinally at all tread, front walk and cross walk locations. This design, in ambient conditions, allows for expansion and contraction without damage or deformation of the aluminum deck. All deck members shall be secured with two hold down clips at each structural member.
 2. Galvanized steel elevated permanent I-Beam home grandstand home and leg truss, visitor
 3. Framing and spacing of all columns to follow the drawings. Cross bracing will be within every other bay starting with the end section.
 4. Front Walkway:
 - a. Depth of the front walkway, per plans is to be 6'-2" from front fence to first row.
 - 1) Grandstand: Elevated per plans.
 5. Entry stairs to be firmly anchored to uniformly poured concrete bases.
 - a. Stair rise: 7 inches (max) per Building Code with vertical aluminum closure.
 - b. Stair tread depth: 11 inches (min) per Building Code with contrasting extruded aluminum aisle nosing at leading edge of each tread.
 - c. Guardrails on Stair to be 42 inches above leading edge of step with two- line anodized aluminum rail and filled with 6-gauge black vinyl coated chain link fence (2" mesh).

- d. Stairs to have offset handrail extensions on each side of stair. The handgrip portion of handrails shall not be less than 1 1/2 inches or more than 2 inches in cross-sectional dimension or the shape shall provide an equivalent gripping surface. The handgrip portion of handrails shall have a smooth surface with no sharp corner. The top of handrails and handrail extensions shall be placed not less than 34 inches or more than 38 inches above the nosing of treads and landings. Handrails shall be continuous the full length of the stairs and shall extend in the direction of the stair run not less than 12 inches beyond the bottom riser. Ends shall be returned or shall terminate in newel posts or safety terminals. Handrails shall be extruded anodized aluminum.
6. Aisles:
 - a. Aisles with seating on both sides to have 34-inch high handrail with intermediate rail at approximately 22 inches above tread. Aisles with seating on one side shall have 34-inch high handrail attached to guardrail system. Handrail shall be mounted to provide clearance from guardrail system in accordance with building code.
 - b. Pre-fabricated anodized aluminum handrails with continuous rounded ends are discontinuous to allow access to seating through a space 22 inches (min.) to 36 inches (max.).
 - 1) Handrails shall connect to decking / riser surface without penetration of the deck system. Any attachment which must have holes drilled through the decking or intermediate step members is not acceptable.
 - 2) If half steps are required, these steps shall be constructed of the same materials as the treads and risers of the grandstands. Ends shall be completely closed and attached with same mechanical fasteners as used for seat brackets. Extruded aluminum contrasting aisle nosing shall be mechanically fastened to the leading edge of each step.
7. Aluminum Decking System:
 - a. Bleachers: rise per and tread depth per plans.
 - b. Each seat 17 inches above its respective tread.
 - c. Decking Arrangement interlock decking home grandstand - per section plans
 - d. The seats shall be 2 x 10 flat designed extruded aluminum alloy, 6063-T6 with clear anodized 204R1, AA-M10C22A31, Class II finish. Seats shall have serrations on top side to allow for safety of occupants.
 - e. The intent of the product design is to reduce deflection of aluminum deck and to minimize fluid drainage below spectator seating.
 - f. All individual deck members shall be locked together longitudinally at all treads, front walk and cross walk locations.
 - g. This design, in ambient conditions, allows for expansion and contraction without damage or deformation of the aluminum deck.
 - h. The locking design does not allow any fluids to pass to the ground under the spectator seating.
 - i. The system shall cause the deck planks to react together at all treads and cross walks to live load and form the appearance of a single tread system. By design, this system forms a solid, overlapping tread and riser installation.
 - j. The nose extrusion at aisles shall allow for a 1" extruded aluminum contrasting nose piece to be flush mounted on the leading edge and shall capture the vertical riser plank in an extruded pocket. The heel extrusion shall have a .70" vertical lip at the rear of the plank to allow for placement of vertical riser plank.
 - k. These extrusions shall be such that the attachment of the seat brackets, step brackets, mid-aisle rails and all other components is accomplished without deck penetrations at aisle locations.

- l. The system shall allow for seat and aisle reconfiguration at any time without evidence of its previous configuration.
 - m. A secondary gutter placed below footboard butt joints shall consist of doubling the stringers at these locations and placing a galvanized formed gutter between the stringers placed approximately 12" apart. The gutter starts at the top of the stand and terminates at a collector box just below row #1. Transferring the water from the collector box to the site drainage location will be the responsibility of the general contractor. Home stand only
 - n. Entry stairs to be a minimum 2 x 11 mill finish aluminum with inset extrusion to accept contrasting nosing member.
 - o. Ramp planks to be interlocking to resist deflection of live loads.
 - p. Open ends of planks to be covered with anodized aluminum end caps, securely fastened to the plank.
 - q. Joint sleeves: Dual joint sleeves to be inserted at each butt joint of each load bearing aluminum plank, and to penetrate 6 inches into each plank at the joint.
10. Guard railing: To be at all sides of bleacher, entry stairs, ramps portals and landings.
 - a. Vertical rail risers to be galvanized steel angle 3" x 3" x 1/4 (50 ksi) for steel to steel connection and fastened with 3/8" galvanized hardware
 - b. Horizontal railing to be anodized aluminum with aluminum cast end plugs at ends of straight runs and/or elbows at corners.
 - c. All guards shall be secured to vertical rail members with hot dipped galvanized fasteners and clamps
 - d. Railings shall be placed at a minimum of 42" above walkways, entrances and adjacent seat boards.
 - e. The barrier material shall include 6 - gauge black vinyl coated chain link fencing, fastened in place with hot dipped galvanized tension bars and aluminum ties.
11. Ramps:
 - a. Slope: 1 in 12.
 - b. Guardrails to be 42 inches above ramp with two-line anodized aluminum rail and in filled with 6- gauge black vinyl coated chain link fence (2" mesh) and 2 x 6 extruded aluminum toe board.
 - c. Handrail: Ramps to have handrail extensions. The handgrip portion of handrails shall not be less than 1 1/2 inches or more than 2 inches in cross-sectional dimension or the shape shall provide an equivalent gripping surface. The handgrip portion of handrails shall have a smooth surface with no sharp corners. The top of handrails and handrail extensions shall be placed not less than 34 inches or more than 38 inches above the ramp surface. Handrails shall be continuous the full length of the ramp and shall extend in the direction of the ramp not less than 12 inches beyond the end of the ramp. Ends shall be returned or shall terminate in newel posts or safety terminals. If returned, rail must be smooth with no external fittings.
 - d. Termination: Ramps shall end with smooth transition onto level concrete pad at benchmark elevation. Aluminum plate with end closures required.
12. Handicap provision:
 - a. Quantity of wheelchair spaces: as shown on drawings and in full compliance with ADA Standards set forth in International Building Code Accessibility Regulations
 - b. Riser area adjacent to wheelchair spaces to have intermediate construction so 4-inch sphere cannot pass through opening.
 - c. Guardrail: Area directly behind handicap areas shall have two-line anodized aluminum rail attached to the riser members. These rails shall be pre-fabricated to

match the appearance of the mid-aisle handrails. A toe rail shall be attached to the base of the rail.

- B. Substructures:
 - 1. Structural shapes meet one of the following ASTM specifications: A36, A36/A572 grade 50, A572 grade 50, A529-50, or A500 grade B.
 - 2. Shop connections are seal welds.
 - 3. After fabrication, all steel is hot-dipped galvanized to ASTM-A-123 specifications. Painted and/or powder coated steel does not offer proper protection and is not an acceptable protective finish for this project
 - 4. All hardware shall be hot-dipped galvanized to ASTM A-123, mechanically galvanized or aluminum (aluminum applies to pop rivets, drive rivets, wire ties).
 - 5. A minimum of 3/8" galvanized connection hardware to be used on the substructure
- C. Extruded Aluminum:
 - 1. Seat Planks and Railing are extruded aluminum alloy, 6063-T6 with clear anodized 204R1, AA-M10C22A31, Class II finish.
 - 2. Riser planks are extruded aluminum alloy, 6063-T6 with Dur-Kyn painted finish, per location on plans.
 - 3. Tread, stair and ramp planks are extruded aluminum alloy 6063-T6 mill finish
 - 4. Joint Sleeve Assembly to be inserted in flat plank to maintain true alignment in joining together two plank pieces. Extruded aluminum alloy, 6063-T, mill finish.
- D. Accessories:
 - 1. Channel End Caps: Aluminum alloy 6063-T6, clear anodized 204R1, AA-M10C22A31, Class II. Mechanically fastened.
 - 2. Cast End Plugs: Aluminum 319 alloy, cast finish. (Required at termination ends of railing)
 - 3. Hardware:
 - a. Bolts, Nuts: Hot-dipped galvanized or mechanically galvanized.
 - b. Hold-down Clip Assembly: Aluminum alloy 6005A-T6, mill finish.
 - c. Structural Hardware: Equal to or greater than hot dipped galvanized ASTM-A307. No connections utilizing high strength bolts are classed as slip critical.
 - d. Aisle Nose and Stair Nose: Aluminum alloy, 6063-T6, slip-resistant black painted finish. Mechanically fastened.
 - e. Fabrication:
- E. Design Load:
 - 1. Live Load: 100 psf gross horizontal projection.
 - 2. Lateral Sway Load: 24 plf seat plank.
 - 3. Perpendicular Sway Load: 10 plf seat plank.
 - 4. Live Load of Seat and Tread Planks: 120 plf.
 - 5. Handrails and Guardrail: Designed to resist a single concentrated load of 200# applied in any direction at any point along the top. Per the International Building Code.
 - 6. Wind load: Per State and Local Building Code.
 - 7. Live load deflection of structural members shall be limited to L/200 of the span.
- F. All manufactured connections to be shop welded.
 - 1. Manufactured by certified welders conforming to AWS Standards.

2.03 PRESS BOX WITH STEEL FRAME CONSTRUCTION

- A. Product Description: Steel Frame Construction.

- B. Press box Dimensions: Home stand is (8) feet wide x (36) feet long – straight front design.
- C. Press box to be constructed with rear exterior stair access to filming platform for the home side.
- D. Special Inspections- third party inspection to be completed and documented at the fabrication facility in accordance with DE Regulations.
- E. Press Box Support Structure:
 - 1. Structural shapes meet one of the following ASTM specifications: A36, A36/A572 grade 50, A572 grade 50, A529-50, or A500 grade B.
 - 2. Shop connections are seal welds.
 - 3. After fabrication, all steel is hot-dipped galvanized to ASTM-A-123 specifications.
- F. Press Box: All materials shall be new and shall comply with ASTM specifications.
 - 1. Floor
 - a. Main support to be a galvanized steel floor frame sized to support structure and metal belly pan for support of insulation.
 - b. Floor to be INTERLOCK Aluminum Decking System, extruded aluminum alloy 6063-T6. Attach Decking System to steel floor frame with mechanical fasteners at end of plank and at intermediate supports. Wood/plywood base decking has proven to deteriorate over time and is not an acceptable alternative.
 - c. Insulation: Kraft faced fiberglass building insulation thickness in compliance with 2015 energy conservation code. Batt or roll as manufactured by Owens-Corning Fiberglass Corp., or equal.
 - d. Wall Structure Steel Framing
 - 1) 4 inch x 4 inch x 11 gauge square tubing with maximum span of 14 feet on front wall and maximum span of 6 feet on back wall and 4 inch x 2 1/2 inch x 14 gauge steel "cees" with maximum spacing of 5 feet for all walls with siding. Spans greater than these require engineered calculations for design.
 - 2) Insulation: Kraft faced fiberglass building insulation R-11, 3 1/2 inches thick. Batt or roll as manufactured by Owens-Corning Fiberglass Corp., or equal. Insulation shall be in accordance with the 2021 International Energy Conservation code.
 - 3) Interior Finish
 - (a) 1/2 inch vinyl coated gypsum panels, Gold Bond vinyl-surfaced
 - (b) Cove Base: Vinyl 4 inches x .080 color to be medium gray.
 - 4) Exterior Finish
 - (a) 26 - gauge prefinished R-Panel paneling as manufactured by MBCI, Signature 200 color series, color to be determined. Vinyl clad siding is not an acceptable product.
 - (b) Wall panels are attached with #12 TEK screws - 6" O.C. at the top and bottom of the panels. Lap screws are placed at each end of the panels, at the intermediate supports, and at the mid-point between supports (TEK #14). All fasteners to be painted same color as exterior paneling.
 - e. Roof Structure
 - 1) 4 inch x 4 inch x 11 gauge square tubing with maximum spacing of 6 feet on center and 4 inches x 2 1/2 inches x 14 gauge steel "cees" with maximum spacing of 2 feet on center.
 - 2) Roof: 1/8 inch four way steel plate roof, continuous welded seams coated with acrylic metal primer as manufactured by Coronado and 36 mils of acrylic roof coating as manufactured by Isothermal Protective Coatings, or equal. Plate is

- welded on both sides of rafters with 1-1/2 inch long 1/8 inch fillet welds on 12 inch centers. Plywood sheathing will not be accepted.
- 3) Insulation: Kraft faced fiberglass building insulation, R-19 (minimum) 6 inches thick. Batt or roll as manufactured by Owens-Corning Fiberglas Corp., or equal.
 - 4) Cornice: 26 gauge steel prefinished- color to be determined.
 - 5) Ceiling: 24 inch x 24 inch x 5/8 inch acoustical ceiling tile architectural revealed edge style wind clips and other components as manufactured by USG, or equal.
- f. Exterior Doors
- 1) Full flush steel construction with honeycomb core. 18 gauge skin sheets. Dimensions: 3 feet 0 inches x 6 feet 8 inches. Color: White.
 - 2) Steel door frame (16 gauge) complete with 1/2 inch threshold and weather-stripping.
 - 3) Exterior Hardware (Prior to completed fabrication check with the district to verify what core lock system they use): Yale 546F Exterior Trim, or equal. Handles shall be lever type that allows operation without tight grasping or twisting of the wrist. All exterior hardware must accommodate this.
 - 4) Interior Hardware: Yale 2100 Exit Device, or equal. Handle shall be panic bar that allows for opening without any grasping, twisting or turning.
 - 5) Interior Walls
 - (a) Framing to be steel galvanized studs (25 gauge) 1 1/4 inch x 3 5/8 inch at maximum 2 feet on center.
 - (b) Finishes to be consistent with all other interior finishes.
 - (c) A 24" x 56" interior window in each wall.
- g. Windows
- 1) Frame: Extruded aluminum single hung, horizontal sliding unit, thermal break.
 - 2) Sash: Tilt toward inside for easy cleaning.
 - 3) Glazing: Clear tempered panes.
 - 4) Dimensions of each unit: See Drawings. At interior wall locations or structural support locations the dimension between windows shall be no greater than 6 inches.
 - 5) Finish: Electrostatically applied acrylic enamel.
- h. Work Bench
- 1) 18 inch deep clear anodized aluminum countertop with a radius front edge.
 - 2) Support using 4" x 2" x 14 ga. Steel "cee" on 4" x 4" x 11 ga. Sq. tubing welded to steel.
 - 3) Shelf brackets do not provide proper support and are not acceptable.
- i. Painting: Materials equal to. Coronado or equal.
- 1) Surfaces: Exterior Door(s), Door Frame(s)
 - (a) Primer: Applied by Door Manufacturer.
 - (b) Finish: 2 coats acrylic latex semi-gloss enamel applied by press box manufacturer.
 - 2) Surfaces, Exterior Siding
 - (a) Primer: Applied by Siding Manufacturer.
 - (b) Finish: Applied by Siding Manufacturer.
 - (c) Touchup: If applicable
 - 3) Surfaces: Wall and Roof Structure
 - (a) Primer: Coronado DTM Industrial 180-11 acrylic metal primer applied after welding, or equal.

- j. Caulking: Sonneborn NP1 - Polyurethane sealant, All temperature, UV resistant, or equal. Silicone products are not acceptable.
- k. Electrical Work:
 - 1) Submittal drawing shall indicate devices and circuitry.
 - 2) Fixtures: Recessed Edge lit LED panel light fixture for use in grid ceiling systems.
 - 3) Wiring to be in nonmetallic Panduit, or equal. N.E.C. breaker box to be 200 amp service mounted on wall with 2 inch rigid conduit to be stubbed out at back wall of press box ready for service line to be connected.
 - 4) Service line to Press Box (By Electrical Contractor)
 - 5) Electrical outlet(s) installed per NEC shall be standard duty.
 - (a) All outlets shall be surface mounted on wall.
 - 6) Sound, Telephone, Clock, Field Communication: Empty double outlet boxes per N.E.C. with 3/4 inch conduit stubbed out bottom of Press Box. Electrical contractor is responsible for re-connecting all electric, telecommunications and audio visual wiring, conduit and equipment to the press box.
 - 7) Outlet boxes to be flush mounted into wall. Any wiring completed on-site will be responsibility of such contractor for inspections. Quantity per plans.
 - 8) Provide wall mounted PTAC heat/air conditioning units as required per plans.
 - 10) Provide in each room an emergency combination exit/flood light with battery back-up. Also provide exterior emergency light with remote heads.
 - 11) Provide (2) wall mount exterior lights with photocell
- 2. Provide fire extinguishers at each exit door (2) total.

PART 3 – EXECUTION

3.01 INSTALLATION

- A. All work performed by technicians experienced in bleacher seating. Project references may be required to verify the quality of finished projects.
- B. Installation with proven experience in the northeast region. Requirement for a minimum of (3) installer references in for this project of similar size and scope.
- C. Project is only to be installed as per approved shop drawings.

3.02 EXAMINATION

- A. Verify that foundation, floor slab, mechanical and electrical utilities, and placed anchors are in correct position

3.03 ERECTION

- A. Provide for erection and wind loads. Provide temporary bracing to maintain structure plumb and in alignment until completion of erection and installation of permanent bracing. Locate braced bays as indicated.
- B. Do not field cut or alter structural members without approval.

3.04 CLEAN-UP

- A. Clean up all debris caused by work of this section removed from site.

- B. Upon completion of the work and final inspections, bleacher manufacturer installer shall broom clean the stand removing all loose debris.

END OF SECTION 131250

SECTION 27 41 16.63
INTEGRATED AUDIO-VIDEO SYSTEMS AND EQUIPMENT FOR STADIUMS

PART 1 – GENERAL

1.1 SUMMARY

- A. This Scope of Work outlines the tasks and deliverables required to provide and install a complete outdoor audio system for the press box located on the home side bleachers. The system will enhance audio coverage across the field and seating areas, provide microphone and Bluetooth connectivity, and include optional subwoofer integration.

1.2 QUALITY ASSURANCE

- A. Codes and Standards: Provide products and materials conforming to the following:
 - 1. Electronic Industries Association (EIA): Comply with the following EIA standards:
 - RS-160 Sound Systems
 - RS-299-A Loudspeakers, Dynamic Magnetic Structures and Impedance
 - RS-310-C Racks, Panels & Associated Equipment
 - SE-101-A Amplifiers for Sound Equipment
 - SE-103 Speakers for Sound Equipment
 - 2. National Fire Protection Association (NFPA): Provide work complying with applicable requirements of NFPA 70 "National Electrical Code" including, but not limited to the following:
 - Article 250 Grounding
 - Article 300 Part A. Wiring Method
 - Article 310 Conductors for General Wiring
 - Article 725 Remote Control, Signaling Circuits
 - Article 800 Communication Systems
 - 3. Comply with requirements of Underwriters Laboratories, Inc. (UL) 50. "Cabinets and Boxes"
 - B. Certification: Provide certificate of compliance with the referenced standards from the equipment manufacturer.
- 1.3 CONTRACTOR QUALIFICATIONS
- A. The installation (electrical) contractor shall hire the services of a sound system contractor to supply the equipment, design, supervise and complete final checkout and certification procedures.
 - B. The sound system contractor shall be a factory authorized sales and service distributor of the specified equipment and must provide with his submittals manufacturer documentation stating that they are in fact authorized distributors of the specified equipment.

- C. Provide installation supervision by personnel, who are factory authorized service representatives of the specified equipment manufacturer and who currently provide maintenance service for equipment of the type specified.

PART 2- PRODUCTS

2.1 PRESS BOX HARDWARE

- A. Provide and install all necessary hardware and infrastructure inside the press box.
 - 1. Mount and secure a wall -mount 12RU AV rack in the booth
 - 2. Install and configure the following audio components within the AV rack:
 - o (1) Biamp 4-channel ALC-1 604D Class D Power Amplifier with DSP
 - o (1) Biamp 2-channel ALC-3200D Class D Power Amplifier
 - o (1) JuiceGoose Power Distribution Unit (PDU) with remote power switch

2.2 SPEAKER INSTALLATION

- A. Install four (4) R.5-66Z Community Professional outdoor loudspeakers on the exterior wall of the press box
- B. Install one (1) R. 2-52Z high power cross-field loudspeaker on the roof of the press box, secured and weatherproofed per manufacturer recommendations.

2.3 Microphone and Audio Input Points

- A. Install one (1) audio input and one (1) microphone input connection inside the press box booth
- B. Install one (1) audio input and one (1) microphone input connection inside the press box booth
- C. Provide one (1) Shure handheld microphone kit
- D. Provide one (1) Shure Lavalier microphone kit
- E. Provide one (1) Shure referee belt switch for the Lavalier MIC
- F. Provide one (1) 10" Crestron tabletop touch panel for control
- G. Install a microphone antenna extension system with two (2) roof-mounted long-range antennas
- H. All level controls will be handled by the 10" Crestron touch panel

2.4 Connectivity & Bluetooth Integration

- A. Install and configure Bluetooth receiver

2.5 Cabling & Infrastructure

- A. Provide and install all required cabling from the AV rack to:
 - 1. All loudspeakers
 - 2. Microphones and audio input locations
 - 3. Antenna system

2.6 System Setup, Configuration, & Commissioning

- A. Configure and calibrate the audio system, including DSP settings
- B. Configure and calibrate the audio system, including DSP settings
- C. Perform final commissioning to ensure proper functionality and coverage
- D. Provide basic user training and documentation for operation and maintenance

2.7 Subwoofer Installation

- A. Install one (1) Biamp Community Medium Power Dual 15- inch Subwoofer (Weather Resistant, Grey)
- B. Install one (1) Biamp 2-channel ALC-3200D Class D Power Amplifier dedicated to the subwoofer
- C. Provide and install all necessary rigging and mounting hardware
- D. Securely mount the subwoofer under the bleachers using chains and hardware per safety standards
- E. Install cabling from amplifier to subwoofer, configure DSP settings, and integrate with the main audio system

2.8 Alternate: Option to install speakers on the 4 poles

- A. Provide banding hardware to install speakers on the four poles
- B. Provide outdoor rated 12/2 speaker cable
- C. Provide an outdoor boom lift to allow for maximum of 65' height installation
- D. Provide an outdoor boom lift to allow for maximum of 65' height installation
- E. Tune the audio system
- F. Test the operation

PART 3 EXECUTION

3.1 GENERAL REQUIREMENTS

- A. Provide all required testing apparatus specified herein to complete successfully the equalization and tests. Provide factory trained personnel to perform the tests and adjust the equalizers required. The purpose of the equalization is to adjust the acoustic amplitude response of the sound system to a specified uniformity measured throughout the entire audience area. This adjustment is made to realize maximum acoustic gain and optimum tonal balance from the sound system throughout the audience area and stage monitored area.

3.2 INSTRUMENTATION

- A. Prior to initial testing, the contractor must submit to the engineer a list of test equipment to be supplied by the contractor and the date calibrated. Provide the following minimal standard laboratory test equipment. Any substitutions or additions to the following list must be approved by the engineer.
 - 1. An impedance bridge
 - 2. Audio oscillator
 - 3. Random-noise generator
 - 4. Precision sound-level meter
 - 5. 1/3-octave real-time audio frequency analyzer
 - 6. Oscilloscope

Kits, home-built and other non-professional test equipment shall be unacceptable.

B. INSPECTION OF SOUND SYSTEM PRIOR TO EQUALIZATION

Prior to undertaking equalization of the sound system, perform the following inspections on the sound system, and submit to the engineer the written results of each inspection for inclusion in the permanent records of the sound system.

1. Measure and record the impedance of each loudspeaker line before connecting it to the output of its respective amplifier. The load impedance shall be equal to or greater than the rated impedance. Record the total impedance.
2. Measure and record the acoustic distribution of the loudspeaker in the sound system throughout the entire seating area. Record the location of all positions in the seating area where any 1/3-octave band, 350-5000 HZ, deviates more than ± 3 dB from the desired house curve.
3. Measure and record with an oscilloscope, the output of each power amplifier. The input source to each amplifier being measured shall be a sinewave oscillator with less than 0.5% THD adjusted to 10dB less than full power output of the amplifier. Inspect the output sinewave appearing on the oscilloscope for complete freedom from hum and noise, parasitic oscillation and RF interference.
4. Adjust alignment delay for minimal comb filtering and lobing.

3.3 HOUSE-CURVE EQUALIZATION

- A. Use pink noise as a source signal, and place a calibrated measuring microphone in the seating area at twice the critical distance ($2D_c$). (Critical distance is defined as that distance from the sound source at which the direct sound from the source and the reverberation sound are in a ratio of one to one.) The acoustic amplitude response that appears on the screen of the real-time spectrum analyzer shall be recorded. Point-to-point measurement, averaging estimates and any other non-real-time dynamic measurements shall be unacceptable. After the unequalled acoustic amplitude response is recorded, the master equalizer set shall be used to bring the observed acoustic amplitude with ± 3 dB uniformity and to conform to the predetermined high-frequency roll off dictated by the combination effect of humidity, air absorption, and the random incidence of the measuring microphone. The equalized house curve shall be recorded in graphic form and provided to owner.

3.4 DOCUMENTATION OF TESTS, MEASUREMENTS AND ADJUSTMENTS PERFORMED

- A. The contractor shall provide the following documentation to owner:
1. List of personnel and certified test equipment used
 2. Impedance of all loudspeakers
 3. The variation of acoustic distribution throughout the seating area above and below a reference level at each 1/3-octave center frequency from 350-5000Hz.

4. The recorded inspection results observed for hum, noise, parasitic oscillation, and RH interference from the output of each power amplifier.
5. The equalized house curve made with the measuring microphone.
6. All filter settings.

3.5 GENERAL

- A. The contractor shall leave the sound system in proper working order, and without additional expense to the owner, shall replace any defective materials or equipment provided by him under this contract within one (1) year (365 days) from the date of final acceptance by the awarding authority. Warranty work shall be completed during normal business hours, a maximum of 24 hours after notification of the service request.

3.6 FINAL TEST

Before the installation shall be considered complete and acceptable by the awarding authority, a test on the system shall be performed as follows:

- A. The contractor's job foreman, in the presence of a representative of the owner, and the fire marshal's office shall operate every building fire alarm device to ensure proper operation and correct annunciation at each remote annunciator and control panel.
- B. When the testing has been completed to the satisfaction of both the contractor's job foremen and the representatives of the manufacturer and owner, a "Certificate of Installation" shall be completed and signed by the necessary personnel, stating that the system is installed in accordance with this specification.

3.7 AS BUILT DRAWINGS, TESTING AND MAINTENANCE INSTRUCTIONS

- A. As Built Drawings
A complete set of reproducible "as-built" drawings showing installed wiring, specific interconnections between all equipment, and internal wiring of the equipment shall be delivered to the owner upon completion of system.
- B. Operating and Instruction Manuals
Three (3) complete sets of operating and instruction manuals, each placed in a 3-ring binder, shall be delivered to the owner upon completion. Each manual shall contain a copy of the as-built sound system drawings. The instruction period for the owner or its representatives shall be 16 hours, performed during normal business hours.

END OF SECTION 274116.63

SECTION 32 13 13
CONCRETE PAVING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
 - 1. Walks.
 - 2. Concrete Pavement
 - 3. Concrete Pads
 - 4. Concrete Curb
 - 5. Concrete paver units
 - 6. Bedding and joint sand
 - 7. Edge restraints
- B. Related Sections:
 - 1. Division 03 Section "Cast-in-Place Concrete" for general building applications of concrete.
 - 2. Division 32 Section "Concrete Paving Joint Sealants" for joint sealants in expansion and contraction joints within concrete paving and in joints between concrete paving and asphalt paving or adjacent construction.
- C. Delaware Department of Transportation (DelDOT) Standard Specifications.
- D. Delaware Department of Natural Resources and Environmental Control (DNREC) Sediment and Erosion Control Handbook.
- E. Interlocking Concrete Pavement Institute (ICPI) Technical Bulletins

1.3 DEFINITIONS

- A. Cementitious Materials: Portland cement alone or in combination with one or more of blended hydraulic cement, fly ash and other pozzolans, and ground granulated blast-furnace slag.

1.4 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Shop Drawings: Indicate pavement markings, lane separations, and defined parking spaces. Indicate, with international symbol of accessibility, spaces allocated for people with disabilities.
- C. Other Action Submittals:
 - 1. Design Mixtures: For each concrete paving mixture. Include alternate design mixtures when characteristics of materials, Project conditions, weather, test results, or other circumstances warrant adjustments.
- D. Material Certificates: For the following, from manufacturer:
 - 1. Cementitious materials.
 - 2. Steel reinforcement and reinforcement accessories.
 - 3. Admixtures.
 - 4. Curing compounds.
 - 5. Applied finish materials.
 - 6. Bonding agent or epoxy adhesive.
 - 7. Joint fillers.
 - 8. Aggregates and sand materials.
 - 9. Concrete paver units. Include Two representative full-size samples of each paver type, thickness and color finish
- E. Field quality-control reports.

1.5 QUALITY ASSURANCE

- A. Ready-Mix-Concrete Manufacturer Qualifications: A firm experienced in manufacturing ready-mixed concrete products and that complies with the DelDOT Standard Specifications.
- B. Testing Agency Qualifications: Qualified according to ASTM C 1077 and ASTM E 329 for testing indicated.
 - 1. Personnel conducting field tests shall be qualified as ACI Concrete Field Testing Technician, Grade 1, according to ACI CP-1 or an equivalent certification program.
- C. Pre-installation Conference: Conduct conference at Project site.
 - 1. Review methods and procedures related to concrete paving, including but not limited to, the following:

- a. Quality control of concrete materials and concrete paving construction practices.
2. Require representatives of each entity directly concerned with concrete paving to attend, including the following:
 - a. Contractor's superintendent.
 - b. Concrete paving subcontractor.
3. Paving Subcontractor Qualifications:
 1. Utilize an installer having successfully completed concrete paver installation similar in design, material, and extent indicated on this project.
 2. Utilize an installer holding a current certificate of completion from the Interlocking Concrete Pavement Institute Concrete Paver Installer Certification program.

1.6 PROJECT CONDITIONS

- A. Traffic Control: Maintain access for vehicular and pedestrian traffic as required for other construction activities.

PART 2 - PRODUCTS

2.1 FORMS

- A. Form Materials: Plywood, metal, metal-framed plywood, or other approved panel-type materials to provide full-depth, continuous, straight, and smooth exposed surfaces in accordance with the DelDOT Standard Specifications.
- B. Form-Release Agent: In accordance with the DelDOT Standard Specifications

2.2 STEEL REINFORCEMENT

- A. Plain-Steel Welded Wire Reinforcement: ASTM A 185/A 185M, fabricated from steel wire into flat sheets as shown on the plans and in accordance with the DelDOT Specifications.

2.3 CONCRETE MATERIALS

- A. Cementitious Material: Use the following cementitious materials, of same type, brand, and source throughout Project:
 - a. Portland Cement: Per the DelDOT Standard Specifications.
- B. Normal-Weight Aggregates: Per the DelDOT Standard Specifications.

C. Water: Per the DelDOT Standard Specifications.

D. Air-Entraining Admixture: Per the DelDOT Standard Specifications.

2.4 CURING MATERIALS: All curing shall be in accordance with the DelDOT Standard Specifications.

2.5 RELATED MATERIALS

A. Joint Fillers: In accordance with the DelDOT Standard Specifications.

2.6 CONCRETE MIXTURES

A. All concrete shall be Type "B" (3,000 PSI) in accordance with the DelDOT Standard Specifications.

2.7 CONCRETE MIXING

A. Ready-Mixed Concrete: Measure, batch, and mix concrete materials and concrete in accordance with the DelDOT Standard Specifications.

2.8 CONCRETE PAVERS

A. Manufacturer: Belgard, Nicolock or approved equal

B. Interlocking Concrete Pavers:

a. Material Standard: Comply with material standards in ASTM C936.

b. Color to be selected by owner.

c. Color Pigment Material Standard: Comply with ASTM C979.

d. Size: Per plans.

e. Average Compressive Strength (ASTM C140): 4000 psi

f. Average Water Absorption (ASTM C140): 5% with no unit greater than 7%.

g. Freeze/Thaw Resistance (ASTM C1645): 28 freeze-thaw cycles with no greater loss than 225 g/m² of paver surface area or no greater loss than 500 g/m² of paver surface area after 49 freeze-thaw cycles when immersed in a 3% saline solution. Use -15° C as the lowest test temperature for applications subject to deicers. Freeze-thaw testing requirements shall be waived for applications not exposed to freezing conditions

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine exposed subgrades and subbase surfaces for compliance with requirements for dimensional, grading, and elevation tolerances.
- B. Proof-roll prepared subbase surface below concrete paving to identify soft pockets and areas of excess yielding.
 - 1. Completely proof-roll subbase in one direction. Limit vehicle speed to 3 mph.
 - 2. Proof-roll with a pneumatic-tired and loaded, 10-wheel, tandem-axle dump truck weighing not less than 15 tons.
 - 3. Correct subbase with soft spots and areas of pumping or rutting exceeding depth of 1/2 inch according to requirements in Division 31 Section "Earth Moving."
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Remove loose material from compacted subbase surface immediately before placing concrete.

3.3 EDGE FORMS AND SCREED CONSTRUCTION

- A. Set, brace, and secure edge forms, bulkheads, and intermediate screed guides to required lines, grades, and elevations. Install forms to allow continuous progress of work and so forms can remain in place at least 24 hours after concrete placement.
- B. Clean forms after each use and coat with form-release agent to ensure separation from concrete without damage.

3.4 STEEL REINFORCEMENT

- A. General: In accordance with the DelDOT Standard Specifications.
- B. Clean reinforcement of loose rust and mill scale, earth, ice, or other bond-reducing materials.
- C. Install welded wire reinforcement in lengths as long as practicable. Lap adjoining pieces at least one full mesh, and lace splices with wire. Offset laps of adjoining widths to prevent continuous laps in either direction.

3.5 JOINTS

- A. General: Form construction, isolation, and contraction joints and tool edges true to line, with faces perpendicular to surface plane of concrete. Construct transverse joints at right angles to centerline unless otherwise indicated.
 - 1. When joining existing paving, place transverse joints to align with previously placed joints unless otherwise indicated.
- B. Construction Joints: Set construction joints at side and end terminations of paving and at locations where paving operations are stopped for more than one-half hour unless paving terminates at isolation joints.
 - 1. Continue steel reinforcement across construction joints unless otherwise indicated. Do not continue reinforcement through sides of paving strips unless otherwise indicated.
 - 2. Provide tie bars at sides of paving strips where indicated.
 - 3. Butt Joints: Use bonding agent at joint locations where fresh concrete is placed against hardened or partially hardened concrete surfaces.
- C. Isolation Joints: Form isolation joints of preformed joint-filler strips abutting concrete curbs, catch basins, manholes, inlets, structures, other fixed objects, and where indicated.
 - 1. Locate expansion joints at intervals of 50 feet for paving and 20 feet for sidewalks and curbing unless otherwise indicated.
 - 2. Extend joint fillers full width and depth of joint.
 - 3. Terminate joint filler not less than 1/2 inch or more than 1 inch below finished surface if joint sealant is indicated.
 - 4. Place top of joint filler flush with finished concrete surface if joint sealant is not indicated.
 - 5. Furnish joint fillers in one-piece lengths. Where more than one length is required, lace or clip joint-filler sections together.
 - 6. During concrete placement, protect top edge of joint filler with metal, plastic, or other temporary preformed cap. Remove protective cap after concrete has been placed on both sides of joint.
- D. Contraction Joints: Form weakened-plane contraction joints, sectioning concrete into areas as indicated. Construct contraction joints for a depth equal to at least one-fourth of the concrete thickness at 25-foot intervals for paving and 5-feet for sidewalks.
 - 1. Grooved Joints: Form contraction joints after initial floating by grooving and finishing each edge of joint with grooving tool to a 1/4-inch radius. Repeat grooving of contraction joints after applying surface finishes.
- E. Edging: After initial floating, tool edges of paving, gutters, curbs, and joints in concrete with an edging tool to a 1/4-inch radius. Repeat tooling of edges after applying surface finishes.

3.6 CONCRETE PLACEMENT

- A. Placement of concrete shall be as shown on the plans and in accordance with the DelDOT Standard Specifications.

3.7 FLOAT FINISHING

- A. Float finishing shall be in accordance with the DelDOT Standard Specifications.

3.8 CONCRETE PROTECTION AND CURING

- A. Concrete protection and curing shall be in accordance with the DelDOT Standard Specifications.

3.9 PAVING TOLERANCES

- A. Paving tolerances shall be in accordance with the DelDOT Standard Specifications.

3.10 FIELD QUALITY CONTROL

- A. Testing Agency: Owner will engage a qualified testing agency to perform tests and inspections.
- B. Testing Services: Testing of composite samples of fresh concrete obtained according to ASTM C 172 shall be performed according to the following requirements:
 - 1. Testing Frequency: In accordance with the DelDOT Standard Specifications.
 - 2. Compression Test Specimens: ASTM C 31/C 31M; cast and laboratory cure one set of three standard cylinder specimens for each composite sample.
 - 3. Compressive-Strength Tests: ASTM C 39/C 39M; test one specimen at seven days and two specimens at 28 days.
 - a. A compressive-strength test shall be the average compressive strength from two specimens obtained from same composite sample and tested at 28 days.
- C. Strength of each concrete mixture will be satisfactory if average of any three consecutive compressive-strength tests equals or exceeds specified compressive strength and no compressive-strength test value falls below specified compressive strength by more than 500 psi.
- D. Test results shall be reported in writing to Architect, concrete manufacturer, and Contractor within 48 hours of testing. Reports of compressive-strength tests shall contain Project identification name and number, date of concrete placement, name of concrete testing and inspecting agency, location of concrete batch in Work, design

compressive strength at 28 days, concrete mixture proportions and materials, compressive breaking strength, and type of break for both 7- and 28-day tests.

- E. Concrete paving will be considered defective if it does not pass tests and inspections.
- F. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.

3.11 REPAIRS AND PROTECTION

- A. Remove and replace concrete paving that is broken, damaged, or defective or that does not comply with requirements in this Section. Remove work in complete sections from joint to joint unless otherwise approved by Architect.
- B. Drill test cores, where directed by Architect, when necessary to determine magnitude of cracks or defective areas. Fill drilled core holes in satisfactory paving areas with portland cement concrete bonded to paving with epoxy adhesive.
- C. Protect concrete paving from damage. Exclude traffic from paving for at least 14 days after placement. When construction traffic is permitted, maintain paving as clean as possible by removing surface stains and spillage of materials as they occur.
- D. Maintain concrete paving free of stains, discoloration, dirt, and other foreign material. Sweep paving not more than two days before date scheduled for Substantial Completion inspections.

END OF SECTION 32 13 13

SECTION 32 18 23.26
NATURAL GRASS ATHLETIC FIELD SURFACING

PART 1 - GENERAL

1.01 GENERAL REQUIREMENTS

- A. Attention is directed to the CONTRACT AND GENERAL CONDITIONS and all Sections within DIVISION 01 - GENERAL REQUIREMENTS, which are hereby, made a part of this Section of the Specifications.
- B. Examine all other Sections of the Specifications for requirements that affect work of this Section whether or not such work is specifically mentioned in this Section.
- C. Coordinate work with trades affecting, or affected by, work of this Section. Cooperate with such trades to assure the steady progress of all work under the Contract.

1.02 SCOPE OF WORK

- A. Refer to the Drawings for the extent and details of this work.
- B. The work of this Section consists of athletic field construction and related work as shown on the Drawings or required herein and includes, but is not limited to the following:
 - 1. Screening stripped and stockpiled topsoil
 - 2. Providing and incorporating all soil amendments as required to complete the work of this Section
 - 3. Spreading, compacting and laser grading of all amended topsoil for athletic field construction
 - 4. Seeding of prepared athletic field surface
 - 5. Athletic field turf grass maintenance and guarantee

1.03 RELATED WORK

- A. Athletic Equipment
- B. Earthwork
- C. Site Preparation
- D. Infield Mix
- E. Chain Link Fence and Gates

1.04 SUBMITTALS

- A. To be included with the Bid:
 - 1. Provide Proof of Experience Criteria as outlined in QUALITY ASSURANCE below. Contractor shall provide project name, project start and completion date, contact name, address and telephone number for each project to enable such data to be validated prior to Contract Award.
- B. To be provided during the project:
 - 1. Product information on field construction and laser controlled hydraulically operated grading system and equipment.
 - 2. Amended Topsoil:
 - a. Contractor shall submit source information and sieve analyses for approval of all amendment materials he intends to use as components of

- the Amended Topsoil prior to blending operations.
- b. Seed: Submit seed grass mix data and name of supplier for approval.
 3. All material testing requirements and results (refer to Material Testing section of this specification).
 4. Fertilizer recommendations for the approved soils and product information on all soil additives for approval.
 5. Survey (10' grid) of the finished grades of the amended topsoil prior to sodding operations.
 6. Submit a draft 12-month maintenance plan for review and approval based on the final amended soil composition including the recommended timing for cultural maintenance operations for the first year. A Certified Sportsfield Manager certified through the Sports Turf Managers Association shall provide plan. Maintenance plan shall include, but may not be limited to, the following:
 - a. Pest Management
 - b. Fertilization
 - c. Core Aeration
 - d. Deep Tine Aeration
 - e. Dethatching Procedures

1.05 MATERIALS TESTING (SUBMITTALS TO BE PROVIDED DURING THE PROJECT)

- A. Testing of the subgrade materials (for compaction testing) and amended topsoil shall be performed and evaluated in accordance with the current standards of the Association of Official Agriculture Chemists and American Society of Testing and Materials (ASTM) Test Methods described in these specifications for putting green and sports turf root zones by an Approved Soil Testing Laboratory with A2LA Accreditation in these procedures.
1. The cost of all testing shall be borne by the Contractor. The Owner reserves the right to perform its own testing of all materials.
 2. All testing reports and recommendations shall be submitted to the Owner's Representative for review prior to use of or spreading of materials.
 3. Approved Soil Testing Laboratories:

A. McNitt & Seren Soil Testing, LLC
306 Ravendale Road
Pennsylvania Furnace, PA 16865
(610) 360-5985

Turf & Soil Diagnostics
35 King Street
Trumansburg, NY 14886
1-855-769-4231

- B. Amended Topsoil Testing and Analysis:
1. Sampling shall be taken in several locations within the stockpile. The outer 6 inches of the piles should be pulled back and a sampling tube (PVC is adequate) inserted into the pile. Withdraw the sample and place it in a large container, such as a 5-gallon pail. A minimum of 6 samples should be removed from different sections and levels in the pile. Once all the samples are taken, the composite sample should be spread on a tarp, mixed thoroughly, and split in half. Discard half. Split the remaining material in half, and discard half again. Continue doing

this until you have a one-gallon sized sample.

- a. Testing shall consist of fertility, particle size and organic matter analysis.
- b. Amended Topsoil analysis shall show recommendations for soil additives to correct soils deficiencies as necessary, and for additives necessary to accomplish particular agricultural, horticultural, or sportsturf management objectives noted.
- c. All tests shall be performed in accordance with the current standards of the Association of Official Agricultural Chemists.
- d. All reports and fertility program recommendations shall be submitted to the Owner's Representative for approval prior to spreading.
- e. Organic Matter Analysis (ASTM F1647, method A)
- f. Proctor Testing per ASTM D698 or D1557

C. Compaction Testing:

1. Provide compaction test results (ASTM D698) for the subgrade following rough grading procedures and on the amended topsoil following fine grading procedures to the Owner's Representative for approval. Testing shall be conducted and paid for by the Contractor by a testing agency approved by the Owner's Representative.
 - a. Obtain appropriate Proctor Test results as described above for the subsoil and amended topsoil mix.
 - b. Complete one (1) compaction test for every 15,000 sf of area within the athletic field limits. Final locations of testing shall be determined by the Owner's Representative.

1.06 QUALITY ASSURANCE

- A. Work under this Section shall be completed by skilled workers who are completely familiar with the specific requirements and methods needed for the proper completion of the work of this Section.
- B. Experience: Natural Grass Athletic Field construction shall be performed by an experienced specialty firm, which shall have constructed at least ten (10) outdoor natural grass athletic fields of 30,000 s.f. or greater of the general type and installation process herein specified within the last 4-year period. Key staff and equipment operators must have a minimum of three (3) years of outdoor natural grass athletic field construction experience. All experience must have been from one company (either general contractor or the sub-contractor). Combining work to meet the experience criteria will not be allowed.
- C. All seed shall comply with all Federal, State and local laws and regulations requiring inspection for plant disease and insect control.

1.07 PRODUCT HANDLING

- A. Delivery and storage:
 1. Deliver all items to the job site in their original containers with all labels intact and legible at time of Owner's Representative's inspection.
 2. Immediately remove from the site all materials which are not true to name, and all materials which do not comply with the specified requirements.
 3. Use all means necessary to protect materials before, during and after installation, and to protect the work and materials of all other trades.

4. Repair and Replacement: in the event of damage, immediately make all repairs and replacements necessary to the approval of the Owner's Representative and at no additional cost to the Owner.
5. Contamination: Immediately remove from the site all materials that have been contaminated. In the case of contamination of stockpiled items, remove entire stockpile from site immediately.

1.08 JOB CONDITIONS

- A. Utilities: Determine location of underground utilities and perform work in a manner which will avoid possible damage. Hand excavate as required.
- B. Excavation: When conditions detrimental to plant growth are encountered, such as rubble fill, adverse drainage conditions, or obstructions, notify the Owner's Representative before spreading Amended Topsoil.

PART 2 - PRODUCTS

2.01 ATHLETIC FIELD CONSTRUCTION EQUIPMENT

- A. Tractors and other Vehicles:
 1. All vehicles trafficking the subgrade, amended topsoil, or finished athletic field shall be Low Ground Pressure (8 lbs per square inch – maximum) tracked vehicles or be equipped with special flotation tires designed to minimize compaction of the athletic profile and surface.
- B. Laser Grader:
 1. The finished athletic field amended topsoil shall be graded to the specified tolerances with a machine equivalent to Laser-Grader by P. Ronci Machine Company or LeeBoy 635B Motor Grade and meeting the following requirements:
 - a. Remote laser controlled, via the use of a GPS positioning survey system, hydraulically operated dual slope grading apparatus with self-correcting blade not exceeding 6 feet in width and dual angle sensors adequate to calculate the cross-slope of the blade.
 - b. The tolerance of the machine shall be able to grade to +/- 1/8" accuracy with processed material.
 - c. Maximum machine weight of 3300 lbs
 - d. Maximum ground tire compression of 550 lbs per tire
 2. Dozers and rear mounted box style graders will not be permitted.

2.02 AMENDED TOPSOIL

- A. Existing Topsoil stockpiled from on-site stripping shall be triple screened, amended and utilized for athletic field areas at a minimum depth of eighteen (18") inches.
- B. The Contractor shall submit representative samples of Existing Topsoil that was stockpiled from on-site stripping, to a Soil Plant Testing Laboratory for Testing and Analysis. Refer to Section 1.02 MATERIALS TESTING. Testing of materials shall include proposed amendment materials. Soil analysis tests shall include recommendation for soil additives to correct soil deficiencies as necessary, and for additive to accomplish particular objectives noted.

- C. Amended Topsoil shall consist of the existing stripped and triple-screened topsoil, washed screened sand (if deemed a requirement by Soil Plant Testing Laboratory), and organic matter. Materials shall meet requirements set forth below:
1. Topsoil (if additional is required, although not anticipated due to the volume of available topsoil that will be generate on-site):
 - a. Topsoil shall be natural, fertile, friable loam or sandy loam typical of cultivated topsoils of the locality, containing not less than 3.5% or more than 8% by weight of decayed organic matter (humus), as determined by ASTM F-1647. Topsoil shall be taken from a well-drained, arable site, free of sub-soil, large stone, earth clods, sticks, stumps, clay lumps, roots or other objectionable extraneous matter or debris. Topsoil shall also be free of Quackgrass rhizomes, *Agropyron Repens*, and nut-like tubers of Nutgrass, *Cyperus Esculentus*, and all other primary noxious weeds. Topsoil shall not have a pH factor less than 6.0 or greater than 7.0. Topsoil shall not be delivered or used for planting while in frozen or muddy condition. Topsoil shall conform to particle size distribution with a maximum three eights (3/8") inches largest dimension, as determined by pipette method in compliance with ASTM F-1632:

Sand:	40 – 60%
Silt:	30 – 40%
Clay:	5 – 20%
 2. Washed Screened Sand (if deemed required by Soil Plant Testing Laboratory):
 - a. Washed Screened Sand for Amended Topsoil shall be concrete sand meeting the requirements of ASTM C-33 with the following addenda: The sand shall have a fineness modulus of 2.5 to 3.2 and a coefficient of uniformity of less than 4.

2.03 LIME

- A. Lime shall be an approved agricultural limestone containing no less than fifty percent (50%) of the total carbonates and twenty-five percent (25%) total magnesium with a neutralizing value of at least one hundred percent (100%). The material shall be ground to such a fineness that forty percent (40%) will pass through a number 100 U.S. Standard Sieve, and ninety-eight percent (98%) will pass through a number 20 U.S. Standard Sieve. The lime shall be uniform in composition, dry and free flowing and shall be delivered to the site in the original, un-opened containers, each bearing the manufacturer's guaranteed analysis – submit to the Owner's Representative for approval.

Any lime, which becomes caked or otherwise damaged making it unsuitable, will be rejected.

1. Soil pH: The amount of lime or sulfur required to change pH should be based on a soil test. Spread ground limestone as recommended by the soil test over the athletic field surface. Do not exceed one hundred fifty (150) pounds of lime per one thousand (1,000) square feet. When using pelletized limestone materials, apply at the same rate as for ground limestone for rapid pH change and at one half (1/2) the rate for normal applications. Do not apply sulfur during mid-summer stress period and do not exceed five (5) pounds per one thousand (1,000) square feet per year. On sandy soils, apply sulfur as a split application.

2.04 FERTILIZER

- A. All fertilizer products shall be uniform in composition, dry and free flowing and shall be delivered to the site in the original un-opened containers, each bearing the manufacturer's guaranteed analysis – submit to the Owner's Representative for approval. Any product, which becomes caked or otherwise damaged making it unsuitable for use, will be rejected.
- B. Contractor shall have the amended topsoil mix tested for soil fertility by an approved soil testing laboratory (at the Contractor's expense). A complete fertilization program for the installation maintenance period shall be recommended by the soil-testing laboratory for approval by the Owner's Representative.
- C. Continue with the application of recommended fertilization program until all turf areas are in acceptable condition and are approved in writing by the Owner's Representative.
- D. Costs for the fertilization program shall be borne by the Contractor until final acceptance by the Owner's Representative.
- E. Prior to seeding, apply fertilizer supplements and a commercial turfgrass starter fertilizer at a rate determined by the approved soil testing laboratory.

2.05 SUPERPHOSPHATE

- A. Superphosphate shall be composed of finely ground phosphate rock as commonly used for agricultural purposes, and containing not less than twenty percent (20%) available phosphoric acid. The superphosphate shall be delivered to the site in the original, un-opened containers each bearing the manufacturer's guaranteed analysis – submit to the Owner's Representative for approval. Any superphosphate, which becomes caked or otherwise damaged making it unsuitable for use, will be rejected.

2.06 WATER

- A. Owner provided water shall not be utilized for anything other than this project and shall not be used for purposes unrelated to the construction of the field.
- B. Water for settling the installed amended topsoil, establishing and irrigating the proposed field will be in the form of hoses and/or temporary irrigation system provided at no additional cost to the Owner.

2.07 HERBICIDES, PESTICIDES AND FUNGICIDES

- A. Herbicides, pesticides and fungicides may be used subject to the approval of the Owner and the Owner's Representative, if they are handled and applied by a state licensed operator.

2.08 SEED

- A. Grass seed shall be clean, new crop seed, composed of a mixture of varieties, mixed in proportion by weight and tested for minimum percentages of purity and germination. Submit proposed mixture to the Owner's Representative for approval.
- B. Athletic Field Seed Mix:
 - 1. Seed shall be fresh, clean seed from the latest year's crop. The seed shall meet requirements of DNREC's permanent Seed Mix #7 of the *Delaware Erosion & Sediment Control Handbook*.
 - 2. The seed mix shall consist of Tall Fescue (150 lb/Ac), Kentucky Bluegrass (three cultivars at 20 lb/Ac), and Perennial Ryegrass (20 lb/Ac).
- C. Hydroseed Mix:
 - 1. All work will be carried out by an approved spraying machine specifically used for this work. The Contractor shall submit to the Owner's Representative for approval, prior to the start of work, a certified statement as to number of pounds of fertilizer, amount and types of grass seed (shall match Athletic Field Seed Mix), and processed fiber, per one hundred (100) gallons of water.
 - 2. Hydromulch: Shall be Terra-Sorb GB, or an approved equal. Add Terra-Sorb to the hydroseed tank at the amount of 60 pounds per acre.

PART 3 - EXECUTION

3.01 SCREENED TOPSOIL

- A. All topsoil that was stripped and stockpiled shall be triple-screened to a maximum stone size of 3/8 in.

3.02 SUBGRADE VERIFICATION

- A. The slope of the subgrade shall conform to or be slightly greater than the general slope of the finish grade. Confirm that the subgrade slopes without settlement or pockets promoting the collection of water.
- B. Provide subgrade compaction tests. Subgrade compaction results shall not exceed 93% of maximum compaction as performed in laboratory testing. If requested by the Owner's Representative, proof-roll the subgrade in the presence of the Owner's Representative.
- C. Move no heavy objects over the subgrade after preparation.
- D. Subsequent to completion of the subgrade preparation by General Contractor, the General Contractor and Athletic Field Contractor shall verify that the subgrade is with the specified slope tolerances and is not over-compacted. The General Contractor shall provide written verification to the Owner and Owner's Representative. Commencement of work by the Athletic Field Contractor prior to written verification constitutes acknowledgement that the subgrade meets the specified grade and compaction tolerances.

3.03 AMENDED TOPSOIL INSTALLATION

- A. Notify Owner's Representative 48 hours prior to spreading of approved Amended Topsoil for approval of subsurface grades. The slope of the subgrade shall conform or be slightly greater than the general slope of the finish grade. Confirm that subgrade slopes to drainage system without settlement or pockets promoting collection of water.

- B. Loosen and mix subgrade material four inches to six inches (4"-6") deep. Remove stones over two (2") inches, sticks and rubbish. Move no heavy objects over athletic field area after preparing subgrade surface.
- C. Apply the Amended Topsoil at athletic fields over the complete subgrade to the depths and finished grades shown on the drawings. Material shall be installed in a moist condition with approved field construction equipment and shall be fine graded with a laser controlled hydraulically operated grading machine with a tolerance of ¼ inch in 25 feet in either direction plus or minus of elevations shown on the drawings when compacted. Contractor shall move the material from the approved stockpiles in such a manner that contaminated materials are not tracked onto the field from tracks or tires. Any contamination or over compacted conditions will require immediate action by the Contractor to satisfy the intent of the specification.
- D. Compaction of soil: Operate the irrigation system one full cycle. Fill in low spots to finish grade with Amended Topsoil as appropriate and water thoroughly. The process shall be repeated as necessary to bring the field to finish grade within the tolerances described. Finish grades shall be verified by survey instruments. If a light roller is used to obtain field grade, the surface shall be scarified before laying of sod. Field compaction shall not exceed the bulk density as performed in laboratory testing.
- E. Provide the Owner's Representative with a laser level topological survey using a 10-foot grid pattern for review. By seeding and/or sodding prior to receiving the written approval of the Owner's Representative, the Contractor assumes acceptance of the finish grade condition and the responsibility to repair deficiencies resulting from incorrect grades at his sole cost. Obtain the written approval of the Owner's Representative for finish grade of athletic field surfaces prior to seeding and/or sodding operations.
- F. Soil pH: Spread ground limestone as recommended by the soil testing laboratory evenly over the athletic field surface. Do not exceed one hundred (100) pounds of lime per one thousand (1,000) square feet. The rate is based on an incorporation depth of four (4") inches. When using pelleted limestone materials, apply at the same rate as for ground limestone for rapid pH change and at one half (1/2) the rate for normal applications.
- G. Prior to seeding, apply a commercial turfgrass starter fertilizer at a rate determined by the Approved Soil Testing Laboratory.

3.04 FERTILIZING

- A. Athletic Field Contractor to have Amended Topsoil Mix tested for soil fertility by the Approved Soil Testing Laboratory, and a complete fertilization program will be recommended by the testing laboratory for the installation maintenance period and be reviewed and approved by the Owner and Owner's Representative.
- B. Continue with application of recommended fertilization program until all turf areas are in acceptable condition and are approved in writing by the Owner's Representative.
- C. The cost of the fertilization program shall be borne by the Athletic Field Contractor until final acceptance by the Owner's Representative.

3.05 SEEDING

- A. Schedule for Seeding: Sow grass seed between March 1 and April 30, or between August 1 and October 31, except as otherwise approved in writing by the Landscape Architect.

- B. If seeding out of season as described above, the Contractor is still obligated by all conditions and responsibilities described under 3.06 TURF MAINTENANCE AND INSPECTION until final acceptance of the athletic field.
- C. Natural Grass Athletic Field as indicated in the Drawings shall be double slice seeded. The second seed application shall be installed perpendicular to the first slice seed application.
- D. Before seed is sown, scarify soil and rake until surface is smoother, friable, and of uniformly fine texture. Slive seed evenly at Seed Mix's approved rate, applying seed in two half rate applications at 45-degree angles, lightly rake, roll with two hundred (200) pound roller and water with fine spray. Method of seeding may be varied at discretion of Contractor with the written approval of the Landscape Architect. It is the Contractor's responsibility to establish a smooth, uniform turf composed of approved grasses.
- E. Following slice seeding operations of the Natural Grass Athletic Field, hydroseed on top of slice seed.

3.06 TURF MAINTENANCE AND INSPECTION

- A. Maintenance of the athletic field turfgrass shall begin immediately after seeding operations, and generally consist of watering, weeding, mowing and edging, fertilization, aerification, reseeding, disease and insect pest control, repair of all erosion, and any other procedure consistent with good horticultural practice, necessary to insure normal, vigorous and healthy turfgrass growth.
- B. Maintenance shall also include all temporary protection fences, barriers, signs and all other work incidental to proper maintenance.
- C. The Contractor shall be responsible for maintenance to establish a uniform stand of the approved grasses until acceptance. After seed has germinated, all areas and parts of areas shall be re-seeded, repeatedly, until all areas are covered with a satisfactory growth of grass.
- D. At the time of the first cutting, mow turf not less than one (1") inch high with sharp reel type mowing units. Turf shall be maintained at one inch (1") high. Do not remove more than one third (1/3) of the grass blade during a mowing which should result in no visible clippings left after a mowing.
 - 1. The athletic field will not be considered acceptable, and the Athletic Field Contractor's maintenance responsibilities will continue, until the entire athletic field exhibits uniform, healthy and vigorous turfgrass growth. A minimum of ten (10) mowings must be completed before final acceptance.
 - 2. The machine used to mow the field shall have a deck no larger than 72" and utilize low ground pressure tires to minimize compaction at the field.
- E. Watering: Athletic Field Contractor shall provide at his cost daily, and if necessary continuous watering of all grass areas during a normal 8 hour working day. The growing medium shall be maintained in a continuous moist condition, satisfactory for good germination and growth of grass, as specified until acceptance. The Athletic Field Contractor is responsible for providing all equipment, hoses, etc. for watering throughout the project and until final acceptance of athletic field turf by the Landscape Architect.
- F. Full and complete written records for the maintenance of the athletic fields are to be furnished to the Owner, by the Contractor at least ten (10) days prior to the end of the contractual maintenance period, to familiarize him with the maintenance requirements for proper care and development of the turfgrass.

3.07 INSPECTION AND ACCEPTANCE

- A. The Owner's Representative shall inspect the athletic field turf for acceptance upon written request by the Athletic Field Contractor. The request shall be received at least ten (10) days before the anticipated date of inspection.
- B. Final acceptance will not be granted until all seeded areas are in satisfactory condition.
- C. If the turfgrass is in satisfactory condition, the Athletic Field Contractor's care and maintenance responsibilities will end. If the grass stand is unsatisfactory, the Athletic Field Contractor's maintenance responsibilities shall continue until an acceptable stand of grass is achieved. The Athletic Field Contractor shall fertilize the turf and/or treat pests if, in the Owner's Representative's opinion, it is needed in order to achieve an acceptable athletic field.

3.08 POST CONSTRUCTION MAINTENANCE PROGRAM

- A. Once the Owner accepts the athletic field seeded areas per section 3.07, a one (1) year post construction maintenance program shall commence. The contractor shall provide a formal written plan to the owner's representative prior to commencement of the work. The contractor shall provide the Owner a minimum of 48 hours notice prior to performing any work.
- B. General Contractor shall engage a professional landscape maintenance company to perform the following work
- C. Growing Season:
 - 1. Late April/Early May
 - a. Soil test for development of annual fertilizer program
 - b. Core aeration (3/4" equivalent to Toro ProCore) 4-5" depth remove and dispose of cores)
 - c. Overseed (injection) 70/20/10 tall fescue/rye/blue 4 x lbs. /1,000 SF
 - d. Topdress with 2mm sand topdressing
 - e. Fertilize (macros and micronutrients) per soil test
 - f. Apply granular lime per soil test
 - g. Apply herbicide
 - i Apply pre-emergent crabgrass preventer at manufacturer's recommended rates in high use areas.
 - 2. June:
 - a. Overseed (broadcast) 70/20/10 tall fescue/rye/blue 4 x lbs. /1,000 SF
 - b. Fertilize (macros and micronutrients) per soil test
 - c. Apply Liquid Organic Fertilizer – Holganix 66 GC liquid compost mix (or similar) @7-14 oz//1,000 SF
 - d. Apply BioPro H30 wetting agent (or similar) at manufacturer's recommended rates
 - 3. July:
 - a. Apply liquid herbicide
 - i Apply post-emergent crabgrass control at manufacturer's recommended rates as needed.
 - ii Apply post-emergent broadleaf control at manufacturer's recommended rates as needed
 - iii Include crop oil surfactant to increase efficacy
 - b. Apply granular Grub Control at manufacturer's recommended rates
 - c. Fertilize (macro and micronutrients) per soil test

4. Mid-August/Early September
 - a. Slice seed with 70/20/10 tall fescue/rye/blue 4 x lbs. /1,000 SF
 - b. Core aeration (3/4" similar to Toro ProCore) 4-5" depth (remove and dispose of cores)
 - c. Topdress with 2mm sand topdressing
 - d. Fertilize (macro and micronutrients) per soil test
 - e. Apply Liquid Organic Fertilizer – Holganix 66GC (or similar) liquid compost mix @ 7-14 oz./1,000 SF
 - f. Apply Bio Pro H30 (or similar) liquid compost mix @ 7-14 oz./1,000 SF
5. Late October/Early November:
 - a. Slice seed (2x at 90 degree angle) with 70/20/10 tall fescue/rye/blue 4 x lbs. /1,000 SF
 - b. Fertilize (macro and micronutrients) per soil test

3.09 CLEAN UP

- A. Absolutely no debris may be left on the site. Excavated material shall be removed as directed. Repair any damage to site or structures to restore them to their original condition, as directed by the Owner's Representative, at no cost to the Owner.

END OF SECTION

SECTION 32.8000
SITE IRRIGATION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes

1. Criteria and requirements for the design and construction of an underground, automatically controlled sports field irrigation system including electrical connections, water main connections, and accessories.

B. Related Requirements

1. Earthwork - Trenching, backfill, and compaction for utilities.
2. Water Distribution Systems.
3. Planting.
4. Planting Soils.
5. Erosion Control.

1.2 REFERENCES

A. ASTM International (ASTM)

1. ASTM D2239 - Polyethylene (PE) Plastic Pipe (SIDR-PR) Based on Controlled Inside Diameter.
2. ASTM D2241 - Poly (Vinyl Chloride) (PVC) Pressure-Rated Pipe (SDR-Series).
3. ASTM D2564 - Solvent Cement for poly (Vinyl Chloride) (PVC) Plastic Pipe and Fittings.
4. ASTM D2609 - Plastic Insert Fittings for Polyethylene (PE) Plastic Pipe.
5. ASTM D2855 - Making Solvent-Cemented Joints with Poly (Vinyl Chloride) (PVC) Pipe and Fittings.
6. ASTM D3350 – High Density Polyethylene (PE)

B. National Fire Protection Agency (NFPA)

1. NFPA 70 - National Electrical Code (NEC).

C. American Society of Safety Engineers

1. ASSE 1013 - Performance Requirements for Reduced Pressure Principle Backflow Preventers and Reduced Pressure Fire Protection Principle Backflow Preventers.
2. ASSE 1015 - Performance Requirements for Double Check Backflow Prevention Assemblies and Double Check Fire Protection Backflow Prevention Assemblies.

1.3 SUBMITTALS

- A. Submittal process:** Provide all required submittals within 30 days after contract award. Submittals shall be available at all times to the Construction Manager.

B. Quality Assurance Submittals:

1. Irrigation Contractor Qualifications: Provide minimum of 3 references and list of similar projects with owner's names, addresses, and telephone numbers.

C. Test Reports

D. Closeout Submittals:

1. As-Built Drawings:
 - a. Electronic: 2 CD/DVD with PDF and CAD file of irrigation plan.

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- b. Hardcopy: Furnish three sets, noting exact locations of elements and changes to Construction Drawings as well as Field notes (as-built completed by the in-field lead irrigator/Irrigation tech).
 2. Operation Manual:
 - a. Format
 - 1) Electronic: 2 CD/ DVD of manual.
 - 2) Hardcopy: Furnish three copies in a 3 ring binder.
 - b. Manuals shall include the following:
 - c. Approved submittals as specified herein.
 - d. Installation instructions including mounting details for control valves.
 - e. Operating Instructions:
 - 1) Winterization procedures.

Recommended operation sequence, frequency, and length of operation cycle, as per relationship to estimated absorption rate, evaporation rate, plant type and anticipated flow. Provide schedule for winterization procedures.
 - f. Maintenance Instructions:
 - 1) Manufacturers' product data, installation, and maintenance instructions.

Copies of completed warranty information. Contractor to complete and mail necessary warranty registration information to manufacturer keeping copies for Owner.
 3. Supply friction loss calculations for each zone within system.
 4. Controller Chart: Prepare color coded chart reduced in size, mounted on the inside of the controller cabinet, containing same plan information as as-built drawings, and laminated in plastic on both sides, with following specific information:
 - a. Note routing of main line, control wires, and controller location.
 - b. Identify valves as to size, station number shown on controller, and type of irrigation head (e.g. micro spray head, rotary head) for each valve with estimated GPM.
 - c. Delineate each station's limits of coverage by color-coding, with each station having different color showing its zone with zone number designation.
 - d. Size, piping type, distance, and location to the distribution water source from POC to isolation valve.
 - e. Size, type, and location of water source.
 5. Meetings and Inspections Log.

1.4 QUALITY ASSURANCE

- A. Contractor Qualifications: Minimum of 3 consecutive years' experience in area of project and having installed other jobs of similar size and scope.
- B. Pre-Work Meeting and Conference Call: Convene a pre-work meeting and conference call at the Project site prior to commencing subgrade preparation for site paving to review conditions of operations, procedures and coordination with related work. Require attendance of parties directly affecting work of this Section including but not limited to Contractor, irrigation contractor, site work contractor, and Landscape Architect.
 1. Discuss conditions of Project site.
 2. Review approach and schedule for, but not limited to, the following items:
 - a. Water source.
 - b. Mainline routing and installation.
 - c. Zone installation and site preparation.
 - d. Material availability.
 - e. Sleeve installation, installation of curb and paving markings for sleeve locations and coordination with site work contractor.
 - f. Status of irrigation schedule
 - g. Potential conflicts between irrigation and other site utilities
 - h. Required Inspections.

- C. Meeting and Inspection Log: Contractor to maintain log of required meetings and inspections. Record the date; time; weather conditions; and a brief summary of the discussions, decisions, and agreements reached. Landscape Architect will review and sign log at the conclusion of the each meeting and inspection. Furnish copy of log to each party attending.

1.5 MEETING AND INSPECTION NOTIFICATIONS

- A. Provide the following notifications to the Owner's Civil Engineering Consultant within the time period listed below. Engineer will notify Owner, Landscape Architect, and other necessary sub consultants:
 - 1. Pre-Work Conference Call: Minimum 14 calendar days prior to meeting date.
 - 2. Static Pressure Test: 14 calendar days prior to inspection date.
 - 3. Mainline Inspection and Hydrostatic Test: 7 calendar days prior to beginning irrigation work.
 - 4. Substantial Completion Inspection: 7 calendar days prior to irrigation substantial completion.
 - 5. Final Inspection: 7 calendar days prior to irrigation final inspection date.
 - 6. Warranty Inspection: 14 calendar days prior to inspection date.
- B. Provide notifications by email or other written means to show proof of delivery.

1.6 PROJECT CONDITIONS

- A. Irrigation contractor to visit site and become familiar with nature and location of work, existing conditions, and conditions that will exist during installation.

1.7 WARRANTY

- A. Guarantee Site Irrigation System for a period of 12 months following the Final Inspection approval in accordance with the following:
 - 1. Defects in material, equipment, and workmanship.
 - 2. Repair of damage to premises resulting from leaks or other defects in material, equipment, and workmanship to satisfaction of Owner.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable manufacturers shall include:
 - 1. Hunter Industries, Inc., (800) 733-2823
 - 2. FEBCO, (800) 767-1234.
 - 3. The Toro Company - Irrigation Division, (888) 384-9939.
 - 4. Site One Landscape Supply, (800) 748-3663

2.2 PIPE

- A. Polyvinyl Chloride (PVC): All PVC pipe shall be Schedule 40 or Class 200
- B. Schedule 40 Flexible Polyethylene (PE): Pipe shall conform to ASTM D2239, SDR 11, PE23, rated at 160 PSI, National Sanitation Foundation (NSF) approved. Subject to approval of Owner, PE shall be used for laterals in areas where ground is subject to freezing for extended periods of time each year.

SITE IRRIGATION

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- C. Class 200 Flexible Polyethylene (PE): Pipe shall conform to ASTM D2241, SDR 21, rated at 200 PSI, National Sanitation Foundation (NSF) approved. Subject to approval of Owner, PE shall be used for laterals in areas where ground is subject to freezing for extended periods of time each year.
- D. HDPE PE4710 D13.5 Flexible Polyethylene (PE): Pipe shall conform to ASTM D3350, DR 13.5, rated at 160 PSI, National Sanitation Foundation (NSF) approved. Subject to approval of Owner, PE shall be used for main line pipe in areas where ground is subject to freezing for extended periods of time each year.
- E. HDPE PE4710 D11 Flexible Polyethylene (PE): Pipe shall conform to ASTM D3350, DR 11, rated at 200 PSI, National Sanitation Foundation (NSF) approved. Subject to approval of Owner, PE shall be used for main line pipe in areas where the main line cross a street and where ground is subject to freezing for extended periods of time each year.
- F. Joints:
 - 1. Pipe sizes 3 inch or smaller shall have ball and socket joints. Thrust blocking shall be required in accordance with industry standards.
 - 2. Pipe sizes larger than 3 inch shall have snap connections with rubber gasket joints. Thrust blocking shall be required in accordance with industry standards.
- G. Pipe used for reclaimed water shall be appropriate color and marked as designated for such use.
- H. Fittings:
 - 1. Polyvinyl Chloride (PVC) Fittings: Fittings shall conform to ASTM D2241, Schedule 40, and Molded.
 - 2. Flexible Polyethylene (PE) Lateral Line Fittings: Fittings shall conform to ASTM D3350, Type 1 PVC insert fittings designed for used with this type of pipe. Pipe and fittings shall be joined with stainless steel pinch clamps or worm gear clamps, including stainless steel screw where pressure levels deem necessary.
- I. Risers above finished grade shall be black in color or receive 2 coats of black exterior semi-gloss enamel paint if a color other than black.

2.3 ACCESSORIES

- A. Sleeves: Sleeves for pipes passing beneath paving shall conform to ASTM D2241, Schedule 40. Minimum diameter of 2 inch or 2 sizes larger than pipe scheduled to pass through them.
- B. PVC Solvent Cement: Cement shall conform to ASTM D2564.
- C. Swing Joint Connections: Connections between heads and laterals shall be thick wall, flexible, polyethylene pipe, with fittings that have male barbs on one end and either male or female screw ends opposite. Glue fittings and female barb adapters are not allowed.

2.4 RECLAIMED WATER PRODUCTS AND MATERIALS

- A. Irrigation products used with reclaimed water shall be the appropriate color and marked as designated for such use.

2.5 CUTOFF OR ISOLATION VALVES

- A. 3 inches or Smaller: Provide full port brass ball valves with 600 WOG rating as manufactured by Red-White Valve Corporation, Carson, CA or equal.
- B. Larger than 3 inches: Provide cast iron and bronze mechanical joint valves, fusion bonded epoxy coated exterior

and interior, Resilient Wedge Valve as manufactured by Clow Valve Co., Oskaloosa, IA.

- C. Provide a valve key and cast iron cylindrical valve box with top with each valve.

2.6 QUICK COUPLER VALVES

- A. Provide the following as shown on the plans:
1. Hunter model HQ-44LRC with model HK-44 Key.
- B. Provide each valve with key having 3/4 inch male top pipe threads for hose connection.

2.7 ELECTRIC CONTROL VALVES

- A. Provide the following as shown on the plans:
1. Hunter ICV Series electric remote control valves
- B. Provide 3M DBY watertight connectors.

2.8 PUMP

- A. Provide a 208V 3 phase pump

2.9 SPRINKLER HEADS

- A. Full or Part Circle Pop-up Gear Driven Rotor Sprinkler:
1. Acceptable Products:
 - a. Hunter I-25 series pop-up rotors, with check valve.

2.10 DECODERS

- A. Provide the following as shown on the plans:
1. Hunter ICD-100 Single-station decoder with surge suppression and ground wire
 2. Hunter IDC -200 2-Station decoder with surge suppression and ground wire
 - a. The minimum recommended level of protection is to have one decoder grounded at the end of each wire path and one decoder grounded every 500 feet.
 - b. Both the controller and the decoders are to be grounded to ground rods or plates with less than 10 ohms resistance.

2.11 VALVE BOX

- A. Valve boxes shall be manufactured by Ametek, Plymouth Products Division, Sheboygan WI., RainBird Corporation or equal by acceptable manufacturer. No irrigation valve box shall be placed in pavement areas or sports field unless otherwise shown on the Drawings.
1. When used with single valve, provide Economy Turf Box or Rain Bird model VB-RND with green colored snap fit cover labeled "Valve Box".
 2. When used with 2 or more valves, provide Jumbo Box or Rain Bird model VB-STD with 20 inch x 14 inch cover opening with cover labeled "Control Valve".
 3. Support bases of valve boxes with at least 1(one) brick layer to distribute weight over valve box and reduce valve box sinking due to general landscape equipment (I.E ZTR mowers, gators, etc.). If more than one brick layer is required, alternate brick stack pattern.

2.12 MANUAL DRAIN VALVES

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- A. Manual drain valves shall be provided by acceptable manufacturers specified above.

2.13 CONTROL WIRE

- A. Number 14-size minimum copper wire, U. L. approved for underground direct burial.

2.14 BACKFLOW PREVENTOR

- A. Comply with requirements and codes of local governing authority regarding backflow prevention.
- B. Provide the necessary materials, insulation/draining capabilities, and insulated hotbox fiberglass enclosure, dark green in color.
- C. Backflow preventers shall be type suitable for use in high hazard cross connection to potable water system as manufactured by one of the following manufacturer's: Watts Regulator Company, Febc, or Wilkins.
 - 1. Reduced pressure backflow preventers shall be ASSE # 1013 and labeled accordingly.
 - 2. In absence of local codes or requirements, provide double check assembly backflow preventer installed in strict accordance with manufacturer's written instructions.

2.15 METER

- A. Contractor to provide appropriate meter.
- B. Meter and meter box shall conform to requirements of local utility company.

2.16 RAINFALL / FREEZE SENSOR

- A. Rainfall / Freeze Sensor:
 - 1. Hunter Wireless Rain/ Freeze Sensor

2.17 FLOW SENSOR

- 1. Acceptable product:
 - a. Toro TFS Flow Sensor

2.18 MASTER VALVE

- 1. Acceptable product:
 - a. Hunter IBV – to be Commercial Grade, Brass

2.19 AUTOMATIC CONTROLLER

- 1. Acceptable Product:
 - a. Hunter ACC-99D-PED-SS
 - b. Controller shall have an integral weatherproof, lockable stainless steel pedestal cabinet with internal transformer.
 - c. Provide necessary electrical power per local and federal code.
 - d. Mounting controller to surface provided by contractor if applicable.
 - e. Setting the forms, conduit, and cement per manufacturers specs provided by the contractor if applicable.

PART 3 - EXECUTION

3.1 CONSTRUCTION PREPARATION

- A. Pressure/Flow Test: Perform calculations according to the Irrigation Association's 3-Step Method. Provide written calculations to the Owner's Engineer including the following site information:
 - 1. Static or residual pressure at the POC.
 - 2. Calculation of pressure for "worst case" sprinkler head.
 - 3. Calculation of GPM per zone.

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- B. Prior to installation, receive approval from General Contractor to proceed with construction.
- C. Contractor shall field verify all aboveground and underground utilities prior to start of work.

3.2 EXCAVATION

- A. Trenching and Backfilling:
 - 1. Trenching and backfilling shall conform to Earthwork Specifications.
 - 2. Excavate trench to proper depth as shown or specified.
 - 3. Minimum trench width shall be 3 1/2 inches.
 - 4. Over excavate trenches deeper than required in soils containing rock or other hard material that might damage pipe and backfill to proper depth with selected fine earth or sand.
 - 5. Backfill and hand tamp over excavation prior to installing piping. No depressions or sunken lines should be evident along trenched paths or swing joints. All grading should be maintained through the warranty.
 - 6. Keep trenches free of obstructions and debris that would damage pipe.
 - 7. Irrigation piping shall not be installed in same trench as heating duct, electric ducts, storm and sanitary sewer lines, water and gas mains.
- B. Do not cut sidewalks, paved areas, or curb and gutter when trenching for piping unless otherwise noted on the Drawings.
 - 1. Provide sleeves as specified in Part 2 above under paving prior to installation of paving.
 - 2. Auger, bore, or tunnel under existing paving without disturbing pavement. Damaged pavement shall be removed and replaced in accordance with Paving Specifications.

3.3 WATER METER

- A. Provide water meter box and meter for irrigation system as shown.

3.4 PIPING INSTALLATION

- A. Minimum cover from top of piping to finished grade shall be provided as follows:
 - 1. Lawn and planting areas:
 - a. Mains and Control Valves: 18 inches.
 - b. Laterals: 12 inches.
 - 2. Drives or parking areas: 24 inches.
- B. Clearances: Maintain 3 inch minimum horizontal clearance between parallel lines in same trench or vertical clearance between lines crossing at angles.
- C. Special Requirements - PVC and PE pipe:
 - 1. Snake pipe in trench at least 1 foot per 100 feet of pipe to allow for thermal expansion.
 - 2. Pipe laterals shall be laid to drain to low point drains located at lowest elevations of each zone.
- D. Rest full length of pipe section on bed of trench, excavating recesses to accommodate joints. Do not lay pipe on unstable material or blocking, or when in opinion of Owner deems the conditions are unsuitable.
- E. Threaded Plastic Pipe Jointing:
 - 1. Do not use solvent cement on threaded joints.
 - 2. Wrap joints with Teflon tape or use virgin Teflon lubricant.
- F. Bell and Socket Plastic Pipe Jointing: Cement joints in accordance with ASTM D2855.

3.5 QUICK COUPLER AND AUTOMATIC LOW POINT DRAIN VALVES

- A. Provide quick coupler valves as shown on the drawings to accommodate winterization.
- B. Provide automatic low point drain valves on all zones. Provide two valves at lowest point of each zone with each drain installed above a 12 inch by 12 inch by 12 inch deep area of coarse washed gravel.

3.6 SLEEVING

- A. Provide sleeves for both piping and control wiring where either passes under paved surfaces.
 - 1. Depths of sleeves shall be same as that required for piping at each location or condition.
 - 2. Extend sleeves 12 inches beyond paving at each end.
 - 3. Install permanent benchmark at top of curbs for reference to sleeve locations.
 - 4. Maximum depth of sleeves will be no more than 24" (inches).

3.7 VALVES

- A. Do not locate beneath paved surfaces.
- B. Install plumb to within 1/16 inch.
- C. Locate within valve box with 6 inch deep layer of coarse gravel beneath bottom of valve.
- D. Install PVC ball valve for plastic valves, or brass gear isolation valves for brass valves immediately before (upstream) all valves and PVC ball valves prior to swing joint, but within valve box of quick couplers matching size of pipe prior to valve or quick coupler
- E. Top of quick coupler valves shall be 6 inches to top of valve box. Top of gravel layer shall be 3 inches below top of valve. Support with 2 (two) metal rods with stainless steel worm gear clamp. Purple valve lid and purple quick coupler cap to be used.
- F. Master Valve:
 - 1. Locate immediately behind backflow preventer.
 - 2. Valve shall be energized by master valve circuit on automatic controller.
 - 3. Provide 6 wires to connection plus two sets of three of which the color must differ from red and white.

3.8 SPRINKLERS

- A. Install plumb to within 1/16 inch with top collar, not nozzle, flush with finish grade.
- B. Provide swing joint with each sprinkler except where entire head is raised above grade and/or where rigid riser piping is required.
- C. Heads adjacent to paving and curb: Locate 6" (inches) from edge of paving or back of curb to prevent car overhang to conflict with a fully extended sprinkler.

3.9 ELECTRICAL CONNECTIONS AND CONTROL WIRE

- A. Conform to the National Electrical Code (NEC) and local electrical codes.
- B. Provide electrical connection to system as designated on the Drawings and as specified herein.

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C. Wire Placement:

1. Do not run control and power supply wiring in same conduit.

2. Provide continuous runs of wire between controller and valves. Splices shall be made with one of following:
 - a. Watertight in ground electrical junction boxes. DBR/Y 600
 - b. Water-tight connectors, such as utilized for valves, and located within valve box for ease of locating.
 - c. The location of electrical splices shall be shown on the As-Built drawings.
3. Bury control wire beside pipe in same trench. Bundle and tape together at not more than 10 ft intervals

- D. Expansion Loops: Construct by wrapping wire around 1/2 inch diameter pipe to create coil. A 3 foot section of wire shall be used to create 12 inch coil with 6 foot section being used to create 24 inch coil.
1. Provide 12 inch coils at each wire splice, not including valves, and at each change of wire direction.
 2. Provide 24 inch coils at each control valve, master valve, flow meter and where each valve enters conduit for automatic controller.

3.10 BACKFILLING

- A. Sand or fine-grained soils free of weeds, debris, and rock shall be used for initial backfill to sufficient depth to prevent damage to pipe from rocks or other debris during compaction of subsequent backfill.
- B. Fill trench to within 3 inches of finish grade with excavated soil and compact in accordance with Earthwork Specifications.
- C. Fill top 3 inches with existing topsoil in planting or turf areas and wheel roll until compaction of backfill is same as surrounding soil.
- D. Grade backfilled trench uniform with surrounding grades.

3.11 BACKFLOW PREVENTOR

- A. Comply with local codes for installation of backflow preventer. In absence of local codes, install in accordance with manufacturer's written instructions.

3.12 RAINFALL / FREEZE SENSOR

- A. Location and installation shall be as shown on the Drawings and per manufacturer's written recommendations.

3.13 FLOW SENSOR

- A. Location and installation shall be as shown on the Drawings and per manufacturer's written recommendations.

3.14 MASTER VALVE

- A. Location and installation shall be as shown on the Drawings and per manufacturer's written recommendations.
 1. Master valve normal operating position shall be open and shall be electronically actuated.

3.15 AUTOMATIC CONTROLLER

- A. Location and installation shall be as shown on the Drawings and approved by Owner prior to installation.
- B. Install rigid conduits for both power supply and control wiring.
 1. Control wire conduit shall extend to 18 inches below grade.
 2. Pull spare wires for future valves and extend to area outside paved surfaces.

- C. Install electrical grounding for controller in accordance with manufacturer's written instructions.

- D. All wires (valves and spares) to be labeled within the control box with professional typed lettering labels, numbered and installed in order.

3.16 FIELD QUALITY CONTROL

- A. Irrigation Inspections: Conduct the following inspections during the course of the work in the presence of the Landscape Architect, (each to be notified electronically/over the phone) to verify conformance to specification requirements. Notify Engineer for observation of inspection by the Landscape Architect. Correct noted deficiencies during each inspection prior to proceeding with subsequent work.
1. Mainline/lateral line Inspection: Inspect the installed main line, electronic control valves, Valve box, wiring and wiring splices, quick-coupler valves, isolation valves prior to backfilling.
 2. Substantial Completion Inspection: Inspect all completed irrigation work. Landscape Architect will develop a punch list of deficient or incomplete items and deliver to Contractor within 3 calendar days of inspection date.
 3. Final Inspection: Within 30 days of project substantial completion date and subsequent to correction of punch list deficiencies, convene a final inspection of all irrigation work.
 4. Warranty Inspections: Convene a warranty inspection each 60 calendar days, till expiration of warranty period specified in Landscape Specifications.
- B. Inspection and Adjustments: Following installation and prior to Substantial Completion Inspection, make final adjustments to site irrigation including but not limited to the following:
1. Flush system completely, with nozzles and screens removed and drip lines ends open to extract debris.
 2. Verify sprinkler operation (head to head spacing), depth, and alignment for direction of throw. Correct as necessary.
 3. Check rotors for proper arc of spray with no overthrow onto pavement. Adjust nozzles as necessary for proper throw and matched precipitation rate.
 4. Ensure uniform distribution exists.
 5. Ensure proper irrigation head operational after landscaping and/or sod installation.
- C. Main Line and lateral lines Inspection and Hydrostatic Tests:
1. Owner's Landscape Architect, Maintenance personnel and/or Irrigation Designer will observe testing.
 2. Center load piping with small amount of backfill to prevent arching or slipping under pressure.
 3. Install risers and caps on mainline and sub-main lines. Apply continuous and static water pressure of 120 psi for a minimum of 3 hours when welded plastic joints have cured at least 3 hours.
 4. Allowable Leakage:
 - a. Utilize the following formula to calculate the allowable leakage for O-ring gasket pipe.
$$L = \frac{SD(P)^{0.5}}{133,200}$$
In which: L=Allowable leakage in gallons per hour
S=Length of pipe tested in feet
D=Pipe diameter in inches
P=Average test pressure in PSI gauge
 - b. No allowable leakage shall be acceptable with solvent based mainline system.
 5. Repair leaks and retest.

3.17 CLOSEOUT ACTIVITIES.

- A. Demonstration: Following final adjustment, operate entire irrigation installation to demonstrate complete and successful operation of equipment.
- B. Cleanup: Contractor to have all excess materials removed from site and the site in proper order for closeout.

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END OF SECTION

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