



ADDENDUM NO. 1

GARRETT COLLEGE FURNISH AND INSTALL SYNTHETIC TURF AT THE MULTIPURPOSE FIELD

Date of Issue: September 23, 2022

SPECS JOB NO. 5593

Page 1 of 5

CONTRACTOR IS TO ACKNOWLEDGE RECEIPT OF THIS ADDENDUM (1) ON BID FORMS.

GENERAL:

1. **CHANGE:** Bid due date to Friday, September 30, 2022.
2. **CLARIFICATION:** Prevailing wages are not required for this project.
3. **CLARIFICATION.** There is no separate color for the warning track in the outfield. The infield will be a separate color to be selected from the supplier's standard colors chart. There is an add alternate for color logos in the two batter's circles.
4. **CLARIFICATION:** The prefabricated portable mound and bases are to be included in the turf proposal. Refer to Section 11 68 33 ATHLETIC FIELD EQUIPMENT, attached.
5. **CLARIFICATION:** Contractor may submit multiple bids. Each bid must be stand-alone and separate from other bids.

DRAWINGS:

SPECIFICATIONS:

1. **REPLACE** Section 00 10 10 – Request for Proposal with attached pages. Documented updated for consistency with the contractor selection process.
2. **REPLACE** Section 00 20 00 – STANDARD FORM OF PROPOSAL with attached pages.
3. **REPLACE** Section 01 10 00 – SUMMARY OF WORK with attached pages. Summary modified to reflect contractor selection process.
4. **ADD** Section 11 68 33 ATHLETIC FIELD EQUIPMENT. Documented added to clarify bases and portable pitcher's mound to be supplied and installed in this contract.

	105 S. CENTRE ST., SUITE 100 • CUMBERLAND, MD 21502	
	PHONE: 301.777.2510 • FAX: 301.777.8419	

ADDENDUM NO. 1

SITE PREPARATION OF ATHLETIC FIELDS AT NORTHERN AND SOUTHERN GARRETT HIGH SCHOOLS

Date of Issue: March 20, 2020

SPECS JOB NO. 5207

Page 2 of 2

5. **REPLACE** Section 32 18 13 – FURNISH AND INSTALL SYNTHETIC TURF with attached pages. Documented updated for consistency with Section 00 20 00 and for carpet technology.

Respectfully,

A handwritten signature in blue ink, appearing to read "Raymond C. Rase", is placed over a light yellow rectangular background.

Raymond C. Rase, PE, PS
President

Attachments: Section 00 10 10 REQUEST FOR PROPOSAL
 Section 00 20 00 PROPOSAL FORM
 Section 01 10 00 SUMMARY OF WORK
 Section 11 68 33 ATHLETIC FIELD EQUIPMENT
 Section 32 18 13 SYNTHETIC TURF CARPET



REQUEST FOR PROPOSALS

Scope of Work / Background

Provide all equipment, materials and services to furnish and install the synthetic turf at the Multipurpose Turf Field which shall be installed on a prepared base by separate contract. The work and product shall provide a finished surface for athletic sporting events.

RFP Requirements, Specifications and Drawings

The RFP document including the RFP requirements, specifications, drawings, and other related information, can be accessed at www.garrettcollege.edu/purchasing - Contact No. GC2305.

Evaluation and Selection

Evaluation

The proposals will be evaluated based on weighted selection criteria. Each proposal will be assigned a point value as listed below.

1.	Warranty	20%
2.	Financial Stability of Company	10%
3.	Carpet Technology	15%
4.	Cost	25%
5.	Manufacturer Experience	15%
6.	Installer experience	15%
	TOTAL	100%

Selection

The contractor that is judged to be the best qualified to render an outstanding product and value will be selected. It is the College's intent to award the contract to the firm which is the most responsive and reliable firm to provide the product. The College reserves the right to request additional information and to make any additional investigations to make a determination relating to the qualifications of an applicant.

Throughout the selection, safeguards will be in place to ensure impartiality and objectivity. To protect the integrity of the process, deliberations will be confidential, although the selection results are a matter of public record. Garrett College will not discriminate against any firm or individual on the grounds of race, creed, sex, age, handicap, or national origin in the contract award. The College reserves the right to waive minor irregularities and omissions in the information contained in a submission.

Pre-Proposal Meeting, Questions and Additional Information

A pre-proposal meeting will be held at Garrett College GIEC Building - Room 102 on September 20, 2022 at 11:00 AM.

Questions pertaining to the Request for Proposals and/or Project Scope should be sent to Chris Jones chris.jones@garrettcollege.edu by 2:00 PM September 22, 2022. Additional information in response to questions received by the deadline will be posted to the College's purchasing website at least 48 hours prior to the application due date. It is the contractor's responsibility to visit the Garrett College website for updates.

Proposal Format

The proposal should be comprised of completed specifications for items 1-3 below, plus the supporting documentation for items 4-12 below. Submit two (2) paper copies with one (1) electronic copy on a flash drive in .pdf format

1. Bid / Proposal Affidavit

Refer to Section 00 21 00

2. Price Proposal with Conflict of Interest Statement and Acknowledgement of Addenda

Refer to Section 00 20 00

3. Acknowledgment of Documents

Refer to Section 00 24 00

4. Firm Qualifications / References

Please provide a summary of your experience in this area and if you will be sub-contracting the work or handling the work internally.

Please provide the name and contract information for three facilities where your firm has provided similar equipment / performed similar installations. Include general design information so that similarity can be determined.

5. Technical Proposal

Please provide a detailed plan, description, and product data for carpet material. Please provide drawings and product specifications, as necessary.

6. Bid Guarantee

The bidder shall provide bid security made payable to the owner in the form of a cashier's check, bank money order, or bid bond in an amount equal to five percent of the Base Bid amount.

The Bidder agrees to execute a contract for this Work in the bid amount and to furnish surety as specified within 10 days after a written Notice of Award, if offered within 60 days after receipt of bids. The bidder agrees that failure to do so, will result in forfeiture of the security to the Owner.

7. Licensure

Contractors shall be registered, licensed, and qualified for the type of work proposed, as necessary, in Garrett County and in the State of Maryland.

Provide copies of applicable Licensure and Certifications, including license numbers, classifications, and expiration dates of Maryland contractor licenses and certifications.

8. Insurance

The Contractor shall maintain in force at all times during the term of the contract, insurance that will indemnify and hold harmless the College.

Provide insurance certification in accordance with Section 00 35 00, Article 3.7.

9. Carpet Warranty

The Contractor shall provide warranty information as defined in Section 32 18 13 Article 1.5.C.

10. Financial Stability

The Contractor shall provide Financial Stability information as defined in Specification 32 18 13 Article 1.5.B and C(f).

11. Manufacturer Experience

The Contractor shall provide Manufacturer Experience information as defined in Specification 32 18 13 – Article 1.5.A.

12. Installer Experience

The Contractor shall provide Installer Experience information as defined in Specification 32 18 13 – Article 1.5.A.

Terms and Conditions

1. Garrett College Terms and Conditions

Refer to Section 00 10 50.



TO: Garrett College
Purchasing Department
687 Mosser Road
McHenry, MD 21541

Proposal Due Date: September 28, 2022
Time: 2:00 PM EST/DST

PROJECT: **GARRETT COLLEGE
MULTIPURPOSE TURF FIELD
FURNISH AND INSTALL SYNTHETIC TURF
CONTRACT NO. GC2305**

Proposal of _____ (hereinafter called "Bidder"),
* a corporation, organized and existing under the laws of the State of _____ *
a partnership, or and individual doing business as _____.

The bidder, in compliance with your invitation for bids for the referenced project, has examined the plans and specifications with related documents and the size of the proposed work, and being familiar with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, hereby proposes to furnish all labor, materials, and supplied, and to construct the project in accordance with the Contract Documents and Addenda within the time set forth therein, and at the prices stated below. These prices are to cover all expense incurred in performing the work required under the Contract Documents, of which this proposal is a part.

COMPLETION TIME:

To begin the performance at the time stated in the Notice to Proceed and to complete the work in accordance with the provisions of the Contract Documents.

The undersigned agrees to meet the following deadlines:
Field will be ready for turf on or before July 19, 2023 (separate contract by other)
Field Turf installed and ready for play on August 14, 2023

ACKNOWLEDGEMENT OF ADDENDA:

Bidder acknowledges receipt of the following Addenda:

- No. _____ Dated _____
- No. _____ Dated _____
- No. _____ Dated _____
- No. _____ Dated _____

Signature of Acknowledgement

*Insert corporation, partnership or individual as applicable.

Sign for Identification

A. BASE BIDS

There are four base bids. Each base bid is based on a type of carpet approved by the Owner. Contractor may provide a bid for one or any number of base bids below.

BASE BID 1 – Hellas Major Play “Fusion”

To furnish labor, materials, equipment, and services necessary to properly complete the work required per BASE BID for the FURNISH AND INSTALL SYNTHETIC TURF in strict accordance with the aforesaid documents for the following sum:

_____ (Dollars \$ _____).
(Written) (Figures)

BASE BID 2 - ASTROTURF “3D3-60 w/ Thatch”

To furnish labor, materials, equipment, and services necessary to properly complete the work required per BASE BID for the FURNISH AND INSTALL SYNTHETIC TURF in strict accordance with the aforesaid documents for the following sum:

_____ (Dollars \$ _____).
(Written) (Figures)

BASE BID 3 – Sprinturf “DFE -60 Extreme with THATCH” system

To furnish labor, materials, equipment, and services necessary to properly complete the work required per BASE BID for the FURNISH AND INSTALL SYNTHETIC TURF in strict accordance with the aforesaid documents for the following sum:

_____ (Dollars \$ _____).
(Written) (Figures)

BASE BID 4 – Shaw Sports Turf “Spike Zone Pro 2”

To furnish labor, materials, equipment, and services necessary to properly complete the work required per BASE BID for the FURNISH AND INSTALL SYNTHETIC TURF in strict accordance with the aforesaid documents for the following sum:

_____ (Dollars \$ _____).
(Written) (Figures)

BASE BID 5 - _____ (Other blended 50/50% monofilament/split film product acceptable to the Owner),

To furnish labor, materials, equipment, and services necessary to properly complete the work required per BASE BID for the FURNISH AND INSTALL SYNTHETIC TURF in strict accordance with the aforesaid documents for the following sum:

_____ (Dollars \$ _____).
(Written) (Figures)

Above prices to include all labor, materials, overhead, profit, insurance, etc., to cover the finished work required.

Sign for Identification

B. ALTERNATES

1. Alternate No. 1 – On-Deck Logo Circles -

_____ (Dollars \$ _____)
(Written) (Figures)

Above prices to include all labor, materials, overhead, profit, insurance, etc., to cover the finished work required.

C. UNIT PRICES

1. Unit Price No. 1 – Additional Carpeting per Square Yard

_____ (Dollars \$ _____) per SY
(Written) (Figures)

Above prices to include all labor, materials, overhead, profit, insurance, etc., to cover the finished work required.

SUBCONTRACTORS:

The undersigned proposed to use the following subcontractors for the trades indicated. The Owner reserves for right to reject a subcontractor who in its opinion has inadequate experience or has a history of poor performance in the trade, or who is financially unable to properly execute this project. All subcontractors shall have a pre-qualification form on file with the Garrett County Board of Education or shall be submitted at the time of bid if listed as a subcontractor. The General Contractor will be prudent to list only those subcontractors that meet the criteria because no extra cost will be paid for changing to a responsible subcontractor. Subcontractors whose portions of work are \$100,000 or more shall provide Performance/ Payment Bond for their portion of work in addition to the General Contractor. Before Award of Bids, a complete list of all subcontractors shall be submitted for review and approval by the Owner.

List of Proposed Subcontractors and Discipline:

CONDITIONS:

Failure to properly and completely fill in all blanks may be cause for rejection of this proposal.

All alternates and unit prices called for in the Contract Document must be submitted herewith. Bidder understands that the Owner reserves the right to reject any or all bids and to waive any informalities in the bidding.

The bidder agrees that this bid shall be good and may not be withdrawn for a period of 60 calendar days after the scheduled closing time for receiving bids. That if the undersigned by notification of acceptance of this proposal within this time period, the firm shall complete the total work within the time from previously stated from the date established for written "Notice to Proceed". If this work is not completed within the

Sign for Identification

SECTION 00 20 00 -STANDARD FORM OF PROPOSAL

Signature of Officer & Title (SEAL)

SUBSCRIBED AND SWORN to before me, a Notary Public in the State of _____,

County of _____ City of _____

this _____ day of _____, 20__.

Commission Expires: _____
(date)

CONFLICT OF INTEREST STATEMENT

The undersigned hereby affirms and attests that to the best of my knowledge, no trustee, employee, spouse, parent, child, brother or sister of the trustee or employee, own assets in this business, and as of this date are also employed by Garrett College.

Company Name _____ Name _____

Date _____ Authorized signature _____

Sign for Identification

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Contract description.
- B. Work by Owner.
- C. Owner supplied products to be installed by Contractor.
- D. Contractor's use of site and premises.
- E. Work sequence.
- F. Owner Occupancy.
- G. Description of Base Bid.
- H. Subcontractor Bond
- I. Wage Rates.
- J. Liquidated Damages
- K. Project Manager, Superintendent and Assistant Superintendent.
- L. Documents.
- M. Evaluation of Proposals

1.2 CONTRACT DESCRIPTION

- A. Work for this Project shall furnish and install a synthetic turf system as identified within the Contract Drawings and Specifications. The Contractor shall provide all materials, labor, equipment, and services necessary for a complete installation of the turf field surface.
- B. Perform Work under a stipulated fee contract with Owner in accordance with the General Conditions of Contract for Construction.
- C. Preparation of base field shall be prepared by separate contract.

1.3 WORK BY OWNER

- A. Items noted NIC (Not in Contract), will be furnished and installed by Owner or under other contracts unless noted otherwise.

1.4 OWNER SUPPLIED PRODUCTS TO BE INSTALLED BY CONTRACTOR

- A. Owner's Responsibilities:
 - 1. Arrange for and deliver Owner-reviewed Shop Drawings, Product Data, and Samples, to Contractor and Engineer.
 - 2. Arrange and pay for delivery to site.
 - 3. On delivery, inspect products jointly with Contractor.
 - 4. Submit claims for transportation damage and replace damaged, defective, or deficient items.
 - 5. Arrange for manufacturers' warranties, inspections, and service
- B. Contractor's Responsibilities:
 - 1. Review and coordination of Owner-reviewed Shop Drawings, Product Data, and Samples.

2. Receive and unload products at site; inspect for completeness or damage jointly with Owner.
 3. Handle, store, install and finish products as required.
 4. Repair or replace items damaged after receipt.
- C. Products furnished to site and installed by Owner:
1. None at this time.
- D. Items furnished by Owner for installation by Contractor:
1. None at this time.

1.5 CONTRACTOR'S USE OF SITE AND PREMISE

- A. Limit use of site and premises to allow:
1. Owner occupancy.
 2. Work by Others and Work by Owner.
- B. Access to Site: Limited to 7:00 A.M. to 10:00 P.M.
- C. Construction Operations: Limited to areas noted on Drawings.
- D. Utility Outages and Shutdown: Provide 72 hour written notice prior to shutdown.
- E. Use or possession of alcohol, drugs, tobacco, and firearms on site is strictly prohibited.
- F. Wearing of "statement clothing" which can be determined to be offensive is strictly prohibited.
- G. All persons engaged in the construction of the project, including employees of the general contractor, subcontractors, suppliers and delivery companies working for any of the above, while on the job site, shall conduct themselves in a courteous manner with respect to and when in the presence of staff and students of the School System. Disrespectful, abusive and/or profane language and/or gestures, and/or harassment of students and staff will not be tolerated and shall represent cause for the Owner to direct the Contractor to remove persons committing such acts from the project.

1.6 WORK SEQUENCE

- A. All work shall be performed in accordance with the construction schedule to be prepared by the separate contract (field preparation contractor) which shall reflect milestone completion dates established elsewhere in the specifications.

1.7 OWNER OCCUPANCY

- A. Multi-Purpose Field will be ready for turf on or before July 19, 2023.
- B. Multi-Purpose Field Turf shall be installed and ready for games on August 15, 2023.
- C. Final completion date for the project shall be within 30 days of the Substantial Completion.
- D. Cooperate with Owner to minimize conflict, and to facilitate Owner's operations. The Owner will occupy the facility during the course of the project.
- E. Schedule the Work to accommodate Owner occupancy.
- F. Cooperate with Owner to minimize conflict, and to facilitate Owner's operations.
- G. Schedule the Work to accommodate Owner occupancy.

1.8 SPECIFICATION CONVENTIONS

- A. These specifications are written in imperative mode and streamlined form. This imperative language is directed to the Contractor, unless specifically noted otherwise. The words “shall be” are included by inference where a colon (:) is used within sentences or phrases.

1.9 DESCRIPTION OF BASE BIDS

- A. General: It is the intent of Garrett College to award one contract to the Turf Installer Contractor to furnish and install synthetic turf as indicated within the contract drawings, specifications, and addenda. Site preparation will be a separate contract. Both contracts will run concurrently and will require close coordination by both to meet the Owner’s completion date.

1.10 SUBCONTRACTOR BOND

- A. Owner retains the right to request a subcontractor to submit a performance and payment bond in the amount of his Contract to the Contractor.
- B. Owner shall reimburse the subcontractor in the amount of the direct cost of the bond without subcontractor or Contractor markup for overhead, profit, or any other associated cost.

1.11 LIQUIDATED DAMAGES

- A. In case of failure on the part of the Contractor to complete the work within the time fixed in the contract or any extensions thereof, the Contract shall pay the Owner, as fixed and agreed, liquidated damages in the sum of one thousand (\$1,000.00) dollars for each calendar day of delay.

1.12 PROJECT MANAGER, SUPERINTENDENT AND ASST. SUPERINTENDENT

- A. The Project Manager, Superintendent and Assistant Superintendent shall be satisfactory to the Owner in all respects, and the Owner shall have the right to require Contractor to dismiss from the project any Project Manager and/or Superintendent with personnel satisfactory to Owner, at no additional cost. The Contractor shall not replace the Project Manager and/or Superintendent without the consent of the Owner except with personnel satisfactory to the Owner in all respects.

1.13 EVALUATION OF PROPOSALS

- A. The Owner has requested bids on different types of products. The Owner will award the contract to the responsible and responsive bidder providing a product and related installation and service plus any discounts, warranty upgrades or product enhancements acceptable to the Owner; and that provides the best value to the Owner. In determining what products and related installation and service are acceptable to the Owner, and what products and related installation and service provide the best value to the Owner, the Owner will consider all of the above factors. In making these determinations, the Owner will rely on the recommendation of its consultants and other information available to the Owner. Bidders are invited to provide information on all of the above factors.
- B. Contractor shall include any information in the bid package which will be beneficial to the owner in making a selection.
- C. Submit two (2) paper copies and one (1) electronic copy on a flash drive in .pdf format of the proposal. Provide all in a sealed envelope and labeled per the Request for Proposal requirements.

- D. This contract utilizes a qualifications-based selection process. Selection criteria and weighting of the responses will be calculated as follows:
1. Warranty 20% per section 32 18 13 – Article 1.5.C
 2. Financial Stability of Company 10% per section 32 18 13 – Article 1.5.B & C.(f)
 3. Carpet Technology 15% per section 32 18 13
 4. Cost 25% per Section 00 20 00 - Proposal Form
 5. Manufacturer Experience 15% per section 32 18 13 – Article 1.5.A
 6. Installer experience 15% per section 32 18 13 – Article 1.5.A
- E. The selection committee may require the vendor to clarify an answer. Failure to do so may result in sufficient cause for being non-responsive. Upon review, the selection committee may select a short list of potential awardees that meet the minimum qualifications for further review
- F. The Board reserves the right to conduct interviews of respondents included on the short list of potential awardees. The selection committee will contact the designated respondent’s representative, as indicated on the Cover Sheet, to schedule an interview date and time. Interviews are anticipated to occur October 6, 2022. If interviews are conducted, performance at the interview may weigh on the selection process.
- G. Contractors may submit more than one proposal. Each proposal shall be clearly identified as to the respondent and which turf is being presented.

PART 2 PRODUCTS - Not Used

PART 3 EXECUTION - Not Used

END OF SECTION

PART 1 GENERAL

1.1. SUMMARY

- A. This work includes furnishing and installing a portable pitching mound, all plates and bases for both softball and baseball.

1.2. SUBMITTALS

- A. Product Data: Submit manufacturer's product literature, technical specifications, and other data required to demonstrate compliance with specified requirements for all athletic equipment.

1.3. QUALITY ASSURANCE

- A. Fabrication and installation of site improvements by experienced craftsmen with excellent record of performance on completed projects of comparable size, scope, and quality.
B. All materials, hardware and furnishings shall be new, first quality.

1.4. FIELD MEASUREMENTS

- A. Contractor shall verify position and layout of all athletic field equipment. Verify dimensions by field measurements.

1.5. DESCRIPTION

- A. Baseball Bases, Home Plate, and Pitching Rubber.

PART 2 PRODUCTS

2.1. BASEBALL / SOFTBALL PRODUCTS

- A. Base; manufacturers and product selections named are provided to establish the minimum standard, and shall be as supplied by:

1. SportsEdge®
2. P.O. Box 837
3. 259 Murdock Rd.
4. Troutman, NC 28166
5. P: 800-334-6057
6. F: 704-528-0179
7. info@sportsedge.com
8. www.sportsedge.com

B. COMPONENTS

1. **BASES:** Model SEBBPL; Jack Corbett MLB Hollywood Bases. Constructed of high quality rubber with tapered base lip and six (6) inch steel stanchion. Features 1,200 lb. of tensile strength to prevent most cuts and tears. One (1) set (3 Bases) per field.
 - a. Included Accessories: Ground Anchors (SEBBP-44) and Mushroom Ground Anchor Plugs (SEBBP-64), three for baseball, three for softball.
2. **HOMEPLATE:** Model SESHP-PS; Rugged, molded rubber constructed home plate with stanchion mounted steel. Includes ground anchor. One (1) per field.
3. **PITCHER'S RUBBER:** Model SESPR-4SO; Four-Sided Professional Pitching Rubber. Made of solid white rubber with PVC inner core. One (1) per field (softball use).
4. **PORTABLE PITCHERS MOUND:** 18 ft diameter x 10" high prefabricated pitcher's mound shall be as manufactured by Beacon Athletics, Middleton, WI, (800) 747-5985, www.beaconathletics.com. Submit complete manufacturer's technical and installation information for approval. Mound is to include integrated pitcher's rubber.

SECTION 11 68 33 - ATHLETIC FIELD EQUIPMENT

PART 3 EXECUTION

3.1. INSTALLATION OF EQUIPMENT

- A. All athletic equipment shall be installed as recommended with manufacturer's written directions, and as indicated on the drawings.

END OF SECTION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. General Conditions, Special Conditions and Section "Scope of Work" are part of and govern work under this section.

1.2 SCOPE OF WORK

- A. Furnish all labor, materials, tools, and equipment necessary to install, in place, all synthetic turf carpet, as indicated on the plans and as specified herein. The installation of all new materials, including testing, shall be performed in accordance with these specifications, in strict accordance with the manufacturer's written installation instructions, and in accordance with all approved shop drawings.

1.3 SUBMITTALS

- A. Submit with bid:
 - 1. Synthetic Turf - one (1) sample, approximately 100 sq.in., one with infill, properly labeled.
 - 2. Seam - one (1) sample, seam length of 6" minimum, sewn or glued, properly labeled.
 - 3. Knitted-in 4" white line.
 - 4. Manufacturer's data offering full product technical documentation.
 - 5. Submit to Engineer and Owner for approval three (3) copies of quality assurance information as required herein, for initial testing and installation, and for ongoing testing responsibility.
 - 6. Certified list of existing installations, including owner representative and telephone number, attesting compliance with quality assurance information.
 - 7. Laboratory test reports for fabric, backing, ribbon, in accordance with ASTM designated test numbers. Tests shall include, but not be limited to pile height and weight, tuft bind, grab tear strength, backing strength.
 - 8. Laboratory test data for rubber crumb infill.
 - 9. Complete warranty information, including sample warranty.
- B. Prior to order of materials, the Contractor shall submit the following:
 - 1. Field layout indicating striping plans for all specified sports.
 - 2. Seam layout of the field.
 - 3. Details on construction, especially any details that may deviate from these plans and specifications including, but not limited to edge details, pitching mound details, other inserts, covers, etc.
- C. Prior to Final Acceptance, the submit to the Owner three (3) copies of Maintenance Manuals, which will include all necessary instructions for the care and preventative maintenance of the synthetic turf system, including painting and striping.
- D. Prior to the beginning of installation, the manufacturer/installer of the synthetic turf shall inspect the existing stone aggregate base layer and supply to the OWNER a Certificate of Acceptance for the purpose of obtaining manufacturer's warranty for the finished synthetic playing surface.

1.4 SHOP DRAWINGS

- A. Shop drawings shall be prepared at the scale of the construction documents and contain all pertinent information regarding installation. These drawings shall be submitted to the Owner for approval prior to the manufacturing and shipment of materials.
- B. Submit drawings for:
 - 1. Seaming plan; seams of pad are not to coincide with seams of synthetic turf nor interfere with subsurface drain system.
 - 2. Installation details; edge detail, pitching mound, other inserts, etc.
 - 3. Striping plan: lay-outs for each sport as called for on the drawings, and showing field lines, markings and boundaries as required by the respective sports sanctioning organization.

1.5 QUALITY ASSURANCE

- A. Bidder/Manufacturer/Installer's experience:
 - 1. The Bidder/Prime Contractor shall have been actively and directly engaged in constructing stadium athletic fields for a period of five (5) years or more.
 - 2. The manufacturer and installer shall have been actively and directly engaged in constructing stadium athletic fields for a period of five (5) years or more, and provide proof of ten (10) or more tufted blended-fiber slit film/ monofilament, polyethylene grass-like fabric sports field installations completed by them within the last three (3) years, five of which must be synthetic turf fields in locations and operating conditions similar to those in Western Maryland.
 - 3. The manufacturer/installer must provide a quality control program, for initial installation and testing, and for ongoing testing regarding responsibility, methodology and protocol. An independent recognized third-party testing facility, experienced with synthetic turf, acceptable to the Owner and Engineer shall be utilized to test for compliance and acceptance.
 - 4. In addition, the Owner may make such investigations as he deems necessary to determine the ability of the bidder to perform the work, and the bidder shall furnish to the Owner all such information and data for this purpose as the Owner may request. The Owner reserves the right to reject any bid if the evidence submitted by, or investigation of such bidder fails to satisfy the Owner that such bidder is properly qualified to carry out the obligations of the contract and to complete the work specified herein.
 - 5. The Contractor shall employ only qualified, experienced supervisors and technicians skilled in the installation of this system. All turf technicians shall be full-time statutory employees of the turf manufacturer/installer. Submit resumes of the top two (2) technicians and supervisors with the bid.
- B. Prospective bidders must meet the following criteria:
 - 1. Have proper license, in good standing, and have never had a license revoked.
 - 2. Can substantiate currently available bonding capacity in excess of \$2,000,000 per project and an aggregate bonding line in excess of \$10,000,000
 - 3. Have not had a Surety or Bonding company finish work on any contract within the last five (5) years.

4. Have not been disqualified or barred from performing work for any public Owner or other contracting entity.
5. Shall have demonstrated financial strength to fully service and warrant the systems throughout the provision of audited financial statements for the past three years.

C. Warranty:

1. The Manufacturer's Warranty, which guarantees usability and playability of the synthetic turf system shall not be prorated nor limited to the amount of usage. The form of warranty must be furnished and submitted together with the bid for consideration by the Owner and Owner's legal council.
2. The warranty submitted must have the following characteristics and must be satisfactory to Owner in all other respects:
 - a. Must provide full coverage without pro-ration or reduction in amount, for ten (10) years from the date of Substantial Completion.
 - b. Must warrant materials, workmanship, installation and performance.
 - c. Must warrant that the materials installed meet or exceed product specifications.
 - d. Must have a provision to either repair or replace, without cost to Owner, such portions of the installed materials that are no longer adequate as a serviceable and playable surface. The repair or replacement must provide a serviceable and playable surface comparable to a new surface.
 - e. Must be a warranty from a single source covering workmanship, installation and all self-manufactured or procured materials.
 - f. Guarantee the availability of replacement materials for the synthetic turf system installed for the full warranty period.
3. The Contractor shall provide the names of three (3) existing clients for whom significant after-the-sale service work has been performed or for whom the Contractor has performed significant synthetic turf Warranty Services. Provide this information with the bid.
4. Full warranty information regarding the warranty offered and warranty performance of each warrantor shall be provided with the bid, for evaluation by the Owner and Engineer.

1.6 EXISTING CONDITIONS

- A. Contractor will be responsible for any damage to any pavement, curbs, fencing, utilities, vegetation or structures during installation of the synthetic turf system, and shall restore any damage to original or better condition.

1.7 SURFACE AREA

- A. See Site Plans for layout. Contractor to verify all measurements.

1.8 UTILITIES

- A. Owner will supply necessary water and electricity for installation.

PART 2 - PRODUCTS

2.1 MATERIALS – BASIC REQUIREMENTS

- A. The synthetic turf and all components shall be of national reputation with previous acceptance at all levels of competition, including professional and collegiate levels of baseball, softball and soccer, etc. The turf fabric shall be manufactured and installed by a sole responsible entity; "jobbers" shall not be permitted, only licensed subcontractors.
- B. All components and their installation method shall be designed and manufactured for use on outdoor athletic fields. The materials as hereinafter specified, should be able to withstand full climatic exposure in Western Maryland, be resistant to insect infestation, rot, fungus and mildew; to ultra-violet light and heat degradation, and shall have the basic characteristic of flow through-drainage allowing free movement of surface run-off through turf and pad where such water may flow to the prepared subbase and into the field drainage system. The finished playing surface shall appear as mowed grass with no irregularities and shall afford excellent traction for conventional athletic shoes of all types. The finished surface shall resist abrasion and cutting from normal use. The Synthetic Turf Carpet shall be designed for multi-sport use.
- C. Turf Carpet:
 - 1. Turf carpet shall be furnished in 15 feet width rolls, field-attached to the next with a seam to form the fabric of the field. Seams shall be sewn or glued with supplemental backing material and/or seaming tape, and adhered with a UV and moisture-resistant adhesive between the carpet backing and the seaming tape. The fabric utilized for the seaming tape shall provide dimensional strength and proper surface texture to permit a tight, secure and hazard free bond to the carpet utilizing the adhesive, and a subsequent bond between adjacent turf panels. The same applies for inlaid or "cut-in" lines, letters, numbers and field marking or graphics.
 - 2. The carpet shall be anchored to the concrete curbing/ nailer , in accordance with the drawings and manufacturer's recommended details, which shall be submitted for approval.
 - 3. Lines and field markings shall be installed as specified, utilizing manufactured lines at the end of each 15' roll and inlaid lines and markings as specified.
 - 4. The entire carpet and pad system shall provide a uniform, comfortable and safe playing surface, free from defects and providing consistent footing in all directions. Footing includes wet and dry traction, slip resistance and rotational resistance. The design of the turf fibers shall minimize skin abrasions, and minimize fly-out of rubber crumb infill.
 - 5. Impact Absorption (force reduction) of the finish field surface and underlying pad shall provide the current industry standard of less than 165 G-max (ASTM F355) over the entire surface, measured at any given test point throughout the entire warranty period. It is understood that G-max values may vary from point-to-point. Initial G-max shall not exceed 110 nor be less than 85 at the time of installation. Submit test results in accordance with Part 4, Post Installation Testing.
 - 6. Finished field surfaces shall provide adequate stability for athlete body control, and provide consistent and predictable ball performance reaction characteristics.

7. The finished field surfaces shall have 15 ft. turf panels, each possessing consistent color and shade, without significantly noticeable streaks, irregularities, or off-color areas, when observed in any direction.

2.2 SYNTHETIC TURF SYSTEM

- A. Synthetic Turf Carpet (BASE BIDS 1 through 4): Shall be 2" height, and shall exhibit suitable ultraviolet resistance, tufted into a backing system having primary, secondary and tertiary layers for dimensional stability and longevity, utilizing polyurethane coating(s). Backing shall be water-permeable, utilizing perforations or other acceptable methods for drainage. Total carpet weight - not less than 70 oz/square yard, utilizing a blended top fiber consisting of equal proportions of monofilament and split film fibers, as well as a textured root zone fiber. Carpet infill shall be comprised of blended SBR rubber (10-20 sieve size), and clean, sub-angular silica sand, proportions as acceptable to the Owner, and as compatible for multi-sport capability, as selected. The carpet shall exhibit and demonstrate appropriate infill retention, fiber memory retention, and long wear capability, acceptable to the Owner and Engineer. Color of carpet shall be as selected by Owner.
- B. Provide complete synthetic turf carpet system as noted above, provide bid pricing for the product submitted for this project as follows, and as called for on the Bid Forms.:
- C. Provide complete synthetic turf carpet system as noted above from the following list, provide bid pricing for the product submitted for this project as follows, and as called for on the Bid Forms.:
1. Major Play "Fusion", as manufactured by Hellas, (512) 250-2910, hellasconstruction.com
 2. "3D3-60 w/Thatch" system, as manufactured by Astroturf, (800) 723-8873, astroturfusa.com
 3. "DFE-60 Extreme w/Thatch" system, as manufactured by Sprinturf, (877) 686-8873, sprinturf.com
 4. "Spike Zone Pro 2" as manufactured by Shaw Sports Turf, (866) 703-4004, shaw sportsturf.com.
 5. Other: _____: Blended, monofilament/split film with thatch product acceptable to the Owner, meeting or exceeding the requirements of this specification, and named products.
- D. All materials, installation and warranty shall be in accordance with the latest manufacturer's specification and in accordance with the Contract Documents.
- E. Any deviation from the performance specification above shall be noted on the Bid.
- F. All materials, installation and warranty shall be in accordance with the latest manufacturer's specification and in accordance with the Contract Documents.

2.3 SWEEPER/GROOMER

- A. Provide with the bid a Synthetic Turf Sweeper, as Litterkat, 72", as manufactured by Greensgroomer, (888)298-8852, greensgroomer.com, or approved equal.

2.4 ATTIC STOCK

- A. Provide a minimum of 750 square feet of synthetic turf carpet for the Owner's use for future repairs.

PART 3 - EXECUTION

3.1 GENERAL

- A. The installation shall be performed in full compliance with approved shop drawings and manufacturer recommendations.
- B. Inspect synthetic materials prior to installation for damage or defects, missing goods or insufficient quantities, correct turf pile height, correct backing perforation spacing and diameter, and other materials out-of-tolerance with the specification.
- C. All installation operations shall be performed by personnel, fully familiar with the materials and their application, under the full-time direction and supervision of a qualified technical supervisor employed by the turf manufacturer. Installation supervisors shall have a minimum of five (5) years experience and job resumes shall be submitted to the Owner with the bid.
- D. The surface to receive the synthetic turf shall be inspected and certified by the manufacturer as ready for the installation of the system and must be perfectly clean as installation commences and shall be maintained in that condition throughout the process.
- E. **Furnish a written Certification of Acceptance of the porous aggregate base construction, prior to commencing installation of the turf carpet.**

3.2 INSTALLATION – SYNTHETIC TURF CARPET

- A. The stone aggregate base shall be inspected by the Contractor and checked with a laser level and string line for slope and planarity and require corrections as may be required. Turf installer shall not approve the stone aggregate base as acceptable for carpet placement without reviewing and approving the complete installation as specified herein.
- B. Testing prior to shipment shall be performed by random sampling of carpet rolls by the manufacturer, certifying that they meet specifications. Testing shall be for pile composition, pile weight, total height, tuft bind and grab tear strength. Test results shall be conveyed in writing and provided with the shipment(s).
- A. Synthetic turf shall be installed across the playing field and attached to the perimeter edge detail in accordance with the manufacturer's specification and installation procedures. Turf shall be of sufficient length to permit full cross playing field installation. No head or cross seams will be allowed. The turf carpet system shall be installed to provide stability that will prevent panels from shifting or bunching.
- B. Seams shall be sewn or glued per the manufacturer's specification and installation procedures. Seams shall be flat, tight, and permanent with no separation or fraying. Seam gaps shall be uniform, width not to exceed the gauge of the tufting.
- C. No glue from seaming shall be permitted to "run through" seaming material or otherwise come in contact with the underlying shock pad.
- D. Infill installation is critical to performance and must closely follow manufacturer's recommendations. In addition:
 - 1. Apply when in a dry condition, and when the field is dry.
 - 2. Install uniformly, properly mixed infill.

3. Equipment utilized for infill must erect the fiber, place the infill materials, and incorporate a metering method to provide consistent distribution. Equipment shall not distort or displace any base materials or damage the system.
 - E. Fiber conditioning: It is essential to maintain the integrity and uniformity of the fiber throughout the manufacturing, shipping handling, installation and maintenance, in order to prevent damage which could alter performance.
- 3.3 FIELD LAYOUT AND MARKINGS
- A. Final layout of inlaid soccer, baseball and softball lines and markings shall be provided as shown on the plans and per approved shop drawings, as approved by the Owner and the Engineer.
- 3.4 CLEAN UP
- A. Contractor shall provide the labor, supplies and equipment as necessary for final cleaning of surfaces and installed items.
 - B. All usable remnants of new material shall become the property of the Owner. Provide sufficient material for suitable repairs of minor tears, burns, or other minor damage.
 - C. The Contractor shall keep the area clean throughout the project and clear of debris.
 - D. Surfaces, recesses, enclosures, etc., shall be cleaned as necessary to leave the work area in a clean, immaculate condition ready for immediate occupancy and use by the Owner.
- 3.5 POST INSTALLATION TESTING
- A. The Contractor shall test for the following:
 1. After receipt of turf on site – When requested, verify turf identification specification by examination of approximately 2 square feet from two turf rolls taken on delivered material. Examination shall include a DSC (Differential Thermal Scan) for identification of the fiber.
 2. Perform in-situ testing of the installed turf for Force Reduction.
 3. When requested, verify the amount of infill: (minimum 3 locations) Vacuum the infill from 1 square foot, dry and sieve and weigh.
 4. When requested, provide additional performance tests on the completed turf and pad system at 5 locations (UEFA pattern) for Standard Deformation, Ball Rebound, Rotational Resistance (Traction) and Ball Roll. G-max testing is required for the entire surface, per (2) above.
 5. Tests shall be performed by a professional and experienced testing laboratory specializing in Sports Testing, acceptable to the Owner and the Engineer.
 6. Contractor shall provide a quality control, post-construction testing program for use by the Owner, requiring testing at periodic intervals, throughout the life of the surface.
- 3.6 MAINTENANCE
- A. Long-term maintenance is necessary in order for the turf to obtain its maximum useful life. The turf Contractor shall provide detailed written maintenance instructions, suggested guidelines for the system, and training of the Owner's maintenance personnel.
 - B. Maintenance consists of but is not limited to cleaning, stain removal, minor seam repairs, dragging or redistribution of any infill material, and management of infill compaction, as well as proper utilization of maintenance equipment.

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- C. It will be the Owner's responsibility to maintain a log of field maintenance performed, as recommended and warranted by the turf Contractor.
- D. Periodic cleaning, utilizing sweeping and vacuuming with equipment compatible with field surface will be performed by the Owner per guidelines provided by the Turf Contractor.

END OF SECTION