

S P E C I F I C A T I O N S

**BLEACHERS**  
(Separate Contract)

for

**Garden Plain High School  
Gymnasium**

**Renwick Unified School District 267**

Garden Plain High School  
720 Sedgwick St.  
Garden Plain, Kansas 67050

**2009**



HANNEY & ASSOCIATES ARCHITECTS

1726 S. HILLSIDE ▪ WICHITA, KANSAS 67211 ▪ (316) 683-8965 ▪ Fax (316) 684-1441 ▪ Email HArchitect@AOL.Com



**Bleachers Separate Contract at Garden Plain High School**

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**Bleachers - Garden Plain High School 2009**

**SECTION 00100 - INVITATION TO BID & INSTRUCTIONS TO BIDDERS**

**GARDEN PLAIN HIGH SCHOOL**

Unified School District #267  
Andale, Kansas  
Bleachers

Drawings and Specifications Dated April 2009.

**1. SCOPE OF PROJECT:**

The Specifications and the accompanying drawings are intended to provide for all materials and labor necessary for the **BLEACHERS** at Garden Plain High School, 720 Sedgwick St., Unified School District #267, Garden Plain, Kansas 67050.

**2. CONTRACT DOCUMENTS**

2.1 Drawings and specifications may be obtained by the Bleacher Contractor from the office of the Architects, **HANNEY & ASSOCIATES ARCHITECTS**, 1726 South Hillside, Wichita, Kansas 67211. Additional sets of documents may be obtained by contractors, sub-bidders or material suppliers at cost of reproduction, postage and handling (minimum charge \$2.00), for which there will be no refund.

- 2.2 Contract Documents are on file and may be viewed at the office of the Architect, and;
- A. Kansas Construction News, 230 Laura, Wichita, Kansas
  - B. McGraw Hill Dodge Plan Room, 1702 Broadway, Kansas City, Missouri
  - C. Unified School District #267, 600 W. Rush Ave., Andale, Kansas

**3. PROPOSAL PROCEDURE:**

3.1 Bid Date:

- A. Sealed proposal for this project will be received by the Owners, The Board of Education, Renwick Unified School District #267, Andale, Kansas at the Central Office, 600 West Rush Ave., Andale, Kansas, **Thursday, May 14<sup>th</sup>, 2009.**

Bleachers..... up to and until 11:00 a.m.

- B. At which time proposals received will be opened and read publicly. Any proposals received after closing time will be returned unopened.

3.2 Should a proposer find discrepancies in, or omissions from the drawings or documents, or should he be in doubt as to their meaning, he shall at once notify the Architect, who will send written instructions to all proposers. Neither Owner nor Architect will be responsible for any oral instructions.

3.3 Proposals shall be made upon the PROPOSAL FORM or exact copy thereof bound into the specifications.

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Fill in all blanks on the PROPOSAL FORM clearly with ink. Erasures or other changes in a proposal must be explained or noted over the signature of the proposer. Signatures shall be in longhand by a principal duly authorized to sign contracts, and if proposal is by a corporation the signature shall be accompanied by the corporate seal impression. Proposals shall not contain alterations or recapitulation of work to be done.

- 3.4 Should the Contractor fail to complete all of the work required by the Contract Documents on or before the date set for substantial completion, the Contractor shall pay as liquidated damages, the sum of \$200.00 per day for each consecutive calendar day the work extends past that date, Sundays and legal holidays excluded.
- 3.5 Each proposer is required to bid all alternates included in the Proposal Form, except that should he desire not to bid an alternate he may insert the words "no bid" in the space provided for prices for such alternate. In such case, if it is determined to use such alternate, the fact that the cost of the type or method bid in the proposal may be lower than that chosen shall not constitute the basis of a claim by the proposer that the contract shall be awarded to him. If an alternate price called for involves no change in price, proposer shall so indicate by writing the words "no change" in the space provided.
- 3.6 No oral or telephonic proposals or modifications will be considered. No telegraphic proposals will be considered, but modification by telegraph of proposals already submitted will be considered if received prior to time set for proposal opening.
- 3.7 Before submitting his proposal, each proposer shall carefully examine all documents pertaining to the work, visit the site of work, and fully inform himself as to all existing conditions under which the work will be performed. Submission of a proposal will be considered presumptive evidence that the proposer is fully aware of the Contract Documents, pertinent state and markets, and has made allowances in his proposal for all work and all contingencies.
- 3.8 Any addenda issued during the time of preparation of proposals are to be acknowledged in the Proposal Form and in closing a contract they will become a part thereof.
- 3.9 Enclose the proposal along with the required Proposal Security, in an opaque envelope:  
Proposal For: (State category of the work)  
Garden Plain High School - Bleachers  
Renwick Unified School District #267  
Andale, Kansas

#### 4. PROPOSAL SECURITY:

- 4.1 Proposal Security, consisting of a bid bond, certified check or cashier's check on a solvent bank, must be enclosed with each proposal in the amount of at least **five percent (5%)** of the Base Proposal.
- 4.2 Proposal Security shall be made payable, without condition to **Renwick Unified School District 267, Andale, Kansas**, as a guarantee that the bidder, if awarded the contract, will promptly execute the formal contract in accordance with the proposal and as required by the other Contract Documents, and that he will furnish good and sufficient bonds for the faithful performance in each category of work will be retained until the contract is awarded or other disposition is made thereof. Proposal Security of all bidders will be returned promptly after the canvass of proposals.

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- 4.3 Performance Bond and Statutory Bond will be required in an amount of 100% of the contract amount. Such bonds shall be in such form as indicated in the Revisions in the General Conditions and registered at the Sedgwick County Courthouse.

### **5. PROPOSAL WITHDRAWAL:**

A Proposal may be withdrawn on written or telegraphic request received from proposer prior to time for proposal opening. No proposal may be altered or withdrawn for a period of at least thirty (30) days after opening of proposals.

### **6. SUBSTITUTIONS:**

- 6.1 The materials, products and equipment described in the bidding documents establish a standard of required function, dimension, appearance and quality to be met by any proposed substitution.
- 6.2 No substitution will be considered unless written request for approval has been submitted by the bidder and has been received by the architect at least ten (10) days prior to the date for receipt of bids. Each such request shall include the name of the material or equipment for which it is to be substituted and a completed description of the proposed substitute including drawings, cuts, performance and test data and any other information necessary for an evaluation. A statement setting forth any changed in other materials, equipment or work which incorporation of the substitute would require shall be included. The burden of proof of the merit of the proposed substitute is upon the proposer. The Architect's decision of approval disapproval of a proposed substitute shall be final.
- 6.3 If the Architect approves any proposed substitute, such approval will be set fort in an addendum. Bidders shall not rely upon approvals made in any other manner.

### **7. AWARD OF CONTRACT:**

Contract will be awarded as soon as possible to the responsible proposer submitting the lowest acceptable proposal (i.e. combination of Base Proposal and accepted alternates, with due consideration to unit prices), provided:

- 7.1 Evidence of the experience, qualifications and financial responsibility of the bidder and his subcontractors, and the time of completion are all acceptable to the Owner.
- 7.2 Manufacturer's Guarantee, Service Warranty and financial responsibility of manufacturer.
- 7.3 The total of acceptable proposals are within the financial budget for the project.
- 7.4 The Owner reserves the right to reject any or all proposals, to accept or reject alternate proposals and unit prices, and to waive all technicalities concerning the proposals received when it may be in his best interest to do so.

End of Section 00100

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**SECTION 00151**

**BLEACHERS**

**FOR**

**GARDEN PLAIN HIGH SCHOOL GYM**

Date: \_\_\_\_\_

Garden Plain High School  
Renwick Unified School District 267  
Andale, Kansas

The undersigned, in compliance with your invitation for bids for the **Bleachers** at Garden Plain High School, for Renwick Unified School District #267, Andale, Kansas, having examined the site of the work, and being familiar with all the conditions surrounding the work, hereby propose to furnish all labor, materials and supplies and do all work necessary for the project in accordance with the contract documents at the price stated below. These prices are to cover all expenses incurred in performing the required work under the Contract Documents of which this Proposal is a part.

**BASE PROPOSAL:**

For all the work described in the specifications and shown on the plans for the **Bleachers** at Garden Plain High School for the Renwick Unified School District #267, Andale, Kansas; I or (we) agree to perform all the work and furnish all materials complete for the sum of:

\_\_\_\_\_  
\_\_\_\_\_ (\$ \_\_\_\_\_ Dollars).

**TIME OF COMPLETION:**

The **General Contractor** is bidding a completion date, with liquidated damages in the sum of Two Hundred Dollars (\$200.00) for each day thereafter, that the Contract remains incomplete, which sum is agreed upon as the proper measure of liquidate damages which the Owner will sustain per diem by the failure of the undersigned to complete the work at the time stipulated, and this amount is not to be construed as in any sense of penalty. This Contractor will be required to meet the time constraints established by the General Contractor.

*This Contractor shall coordinate delivery of material and installation with the General Contractor.*

*This Contractor shall be responsible for the unloading and storage of materials for this project.*

*This Contractor shall be responsible for putting any debris generated by this work in the central trash receptacle maintained by the General Contractor.*

**ALTERNATE NUMBER ONE:** End Bank Bleacher

Provide and install (2) End Bank bleachers (1)-north end, (1)-south end. Each of the bleachers shall have (6) rows, 24” deck, recoverable first row, motorized with retractable (self storing) end rails, providing a minimum of 130 seats. Since the bleachers will have open ends this bid shall include end closure panels. The specification shall be equal to the Base Bid.

The amount of the Base Bid will be increased/decreased/unchanged by the following amount:

\_\_\_\_\_  
\_\_\_\_\_ Dollars (\$ \_\_\_\_\_).

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**ALTERNATE NUMBER TWO:** Home Side

The Home Side Bleachers do not have backs in the Base Bid. This alternate adds seat backs to one bank (14 seats x 11 rows). This bid can be used like a “unit price” to add seat backs to two additional banks (total of three). The seat backs shall be equal to Hussy “Contour Plastic Backs”; selected from the (15) standard colors. The amount of the Base Bid will be increased/decreased/unchanged by the following amount:

\_\_\_\_\_

Dollars (\$) \_\_\_\_\_).

**DECLARATION:**

The undersigned declares that he has carefully examined and understands all Bid Documents, including Invitation to Bid, instructions to Bidders, Drawings, Specifications, and Addenda, that he has visited the location of the work and familiarized himself with all conditions under which the work is to be performed, including all pertinent codes and the conditions of labor and material markets, that he has checked quantities and prices, that he has made allowance in his bid for all work and all contingencies, and understands that in signing this bid he waives all right to plead any misunderstanding regarding the same.

The undersigned acknowledges receipt of the following Addenda to the Drawings and/or Specifications.

(Give number and date of each.)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Respectfully Submitted,

\_\_\_\_\_  
(legal name of bidder)

\_\_\_\_\_  
(address of bidder)

Seal  
(If bid is by a corporation)

\_\_\_\_\_  
(signed by authorized officer)

\_\_\_\_\_  
(title)

**End of Section 00151**

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### SECTION 00300 - SPECIAL CONDITIONS

1. **A.I.A. GENERAL CONDITIONS:**

A.I.A. Document A201-1997 "General Conditions of the Contract for Construction", 1997 Edition, hereinafter referred to as the "A.I.A. General Conditions", is hereby made a part of this Specification, as if hereto attached or herein repeated. Contractor shall consult this document and become intimately familiar with its contents before submitting his proposal. Copies are available for purchase from the American Institute of Architects, 1735 New York Avenue, N.W., Washington D.C. and from local A.I.A. offices.

2. **WORK INCLUDED:**

These Specifications and the accompanying Drawings are intended to provide for all materials and labor necessary for the **BLEACHERS** separate contract for the Garden Plain High School Gymnasium, Garden Plain, Kansas.

3. **INTERPRETATION OF DOCUMENTS:**

If any person contemplating submitting a bid for the proposed Contract is in doubt to the meaning of any part of the Plans, Specifications, or other proposed Contract Documents, he may submit to the Architect a written request for an interpretation thereof, prior to 48 hours of the hour of opening bids. The person submitting the request will be responsible for its prompt delivery. Any interpretation of the proposed documents will be made only by Addendum duly issued and a copy of such Addendum will be mailed, faxed or delivered to each person receiving a set of such documents.

4. **VERIFICATION OF DOCUMENTS:**

Before submitting his proposal, each bidder shall check his set of Specifications and Drawings and advise the Architect if any sheets are missing.

4.1 Enumeration of Specifications appears in the Specifications Index.

4.2 Enumeration of Drawings appears on Sheet Number One (1) of the Plans.

5. **CONTRACT DOCUMENTS:**

The Contract Documents consist of: The Agreement, the conditions of the Contract (General Conditions, Revisions in General Conditions and Supplementary General Conditions), the Drawings, the Specifications, all Addenda issued prior to the execution of the Agreement, and Change Orders thereafter.

6. **DOCUMENTS FURNISHED:**

6.1 Contractors will be furnished free of charge the following number of sets of Working Drawings and Specifications, including all modifications thereof:

Separate Contractor 3 sets

6.2 Contractor shall pay the actual cost of reproduction for all additional sets requested by him.

7. **PROPOSALS:**

Bidders are required to use the Proposal Form furnished by the Architect, which shall be made part of the Contract Documents. Each proposal must be accompanied by a certified check, cashiers check, or bid bond acceptable to the Owner, in the amount of five (5) percent of the base bid, payable to the Owner, without condition, as a guarantee that the bidder if awarded the contract will promptly execute such Contract in accordance with proposal and in the manner and form required by the Contract Documents, and will furnish good and sufficient bond for the faithful performance of same. The bid security of the three lowest bidders will be retained until the Contract is awarded or other disposition is made thereof. The bid security of all bidders except the three lowest will be returned promptly after the canvass of bids.

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8. **EXAMINATION OF PREMISES:**  
The Contractor shall carefully examine the premises before submitting his bid. No allowance will be made for lack of full knowledge of all conditions, except underground conditions as are indeterminable before the commencement of the work.
9. **CHANGES:**  
It is understood that the Owner shall have the right during the progress of construction to make any alterations, additions, or omissions that he may desire to work or material herein specified or shown on the Drawings. The same shall be carried into effect by the Contractor without in any way violating the Contract, but if such changes are made, the value of same must be agreed upon in writing between Owner, Architect, and Contractor.  
No omissions will be allowed or extra work paid for unless ordered in writing by the Architect.
10. **SPECIAL WORK NOT INCLUDED:**  
The Owner reserves the right to have special work, not included in the Contract, done during the course of the work herein included.
11. **PERMITS:**  
The Contractor shall obtain and pay for all permits, surveys and inspector's fees required without cost to the Owner. (Sedgwick County and City of Garden Plain).
12. **RESPONSIBILITY FOR ACCIDENTS:**  
The Contractor must bear all loss of damage from accident, which may occur to any person or persons, by or on account of the execution of the work, until possession is taken by the Owner. The Contractor must provide all legal and necessary guard railing, lights, warning signs, etc., during the progress of the work.
13. **INSURANCE:**  
See "Revisions in General Conditions".
14. **DETAIL AND WORKING DRAWINGS:**  
Additional detail and working drawings will be furnished in amplification of the Contract Drawings, as they may be required; all such additional drawings are to be considered of equal force with those, which accompany these specifications. A complete set of the drawings and specifications must be kept in the building at all times during the progress of the work.
15. **DIMENSIONS:**  
Figures given on the Drawings govern scale measurements and larger scale govern smaller.
16. **FOREMAN:**  
The General Contractor must have at the building from start to finish a responsible foreman; in addition the Contractor must give the work his personal supervision; the foreman must be on duty during all working hours. Any instructions for notices given to him shall have the same force as if given to the Contractor in person.
17. **MATERIALS AND WORKMANSHIP:**  
All materials and workmanship are to be the best of their several kinds, unless specified to the contrary. The Contractor is to furnish all accessories needed, such as scaffolding, forms, protection and all other temporary work, unless otherwise specified distinctly.

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18. **DEFECTIVE OR IMPROPER WORK:**

Any work or materials not conforming to the specifications must be removed by the Contractor and replaced by approved materials or work without extra compensation. All condemned material must be removed from the premises immediately.

19. **PROTECTION:**

All materials in or designed for the work shall be at all times suitably housed or protected, particular care being taken of all finished parts.

20. **PRIVY:**

The General Contractor is to provide a temporary privy.

21. **TEMPORARY OFFICES AND STORAGE:**

21.1 The General Contractor shall erect or provide a temporary office building for the joint use of the Contractor, his superintendent, Owner and the Architect.

This building shall be weatherproof, provided with wood or equal floor, provided with ample light and equipped with a fax machine, telephone, shelves, and tables to facilitate inspection of plans. This building shall be located on the site and shall be retained throughout the construction and shall be removed upon completion of the work.

21.2 Each Subcontractor shall make his own arrangements with the General Contractor for office and storage facilities on the Site. If necessary, each Subcontractor shall provide and maintain his own offices and storage facilities at the site.

21.3 The location of any temporary facilities and the extent of the facilities and services to be provided shall be subject to the requirements of the General Contractor. Locate temporary structures to avoid interference with the Work. Relocate temporary structures as required by the progress of the Work.

22. **DISRUPTION OF SERVICES:**

Before digging or trenching commences, each Contractor shall verify with Public Service Companies all known plumbing, gas and underground electrical lines.

23. **CLOSING-IN WORK:**

23.1 The General Contractor shall notify the Owner, all Contractors and subcontractors under the Owner, when he is ready for them to install their portions of their work and see that they comply with any reasonable period of time. Neither enclose nor cover any piping, wiring, ducts, equipment or other items until proper tests, observations, and/or inspections have been made by the Architect and/or proper authorities.

23.2 Notify the Architect to observe any work when placing of subsequent work would prevent observation of previous work.

24. **FINISHING:**

24.1 Adjust windows, doors, drawers, hardware, appliances, motors, valves, controls and other equipment for proper operations.

24.2 Seal exterior joints between materials to form a waterproof enclosure.

24.3 Touch-up imperfections in surfaces, paint and other finishes after all Contractors and Tradesmen have completed their work.

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- 24.4 Clean surfaces using appropriate materials and methods that will thoroughly clean but not damage materials and there finishes, nor damage or adversely affect other materials in the project.
25. **COMPLETED WORK:**
- 25.1 Completed work shall find materials structurally sound, free from scratches, abrasions, distortions, chips, breaks, blisters, holes, splits or other disfigurement considered as imperfections for the specific material. Equipment shall operate properly to design performance capacities and requirements.
- 25.2 Finished installations shall illustrate first class workmanship.
- 25.3 Completed surfaces shall be thoroughly clean and free form foreign materials and stains.
26. **PERMANENT SYSTEMS:**  
Install, connect, service and operate permanent systems at earliest practical dates, except as may be modified by special conditions of these specifications.
27. **FAX AND TELEPHONE:**  
General Contractor shall provide a temporary fax machine and telephone at the site for use by all trades and the Architect. General Contractor shall pay for all local calls; no long-distance calls shall be made from this phone without reversing the charges.
28. **GUARANTEE:**  
The Contractor shall be responsible for and shall make good any defects due to faults in labor and materials, which may arise or be discovered within one (1) year after the completion of the work and its acceptance by the Architect.
29. **RETURNING DRAWINGS & SPECIFICATIONS:**  
All drawings and Specifications must be returned to the Architect before the final certificate will be issued to the Contractor.
30. **WRITTEN WORDS IN PROPOSAL:**  
In case of a difference between words and figures in a proposal, the amount stated in written words shall govern.
31. **TEMPORARY LIGHTING & POWER:**  
The Contractor may use existing convenience outlets that may be required during the construction and completion of the building addition.  
The General Contractor will pay utilities during construction.
32. **SALES TAX EXEMPTION:**
- 32.1 Materials and equipment incorporated into this project are exempt from payment of Kansas Sales Tax and such Sales Tax shall be excluded from bidder's proposal.
- 32.2 The Owner will provide the Contractor with a proper exemption certificate number within ten (10) days of Contract date. Upon issuance of a proper exemption certificate number to the Contractor, the Contractor shall assume full responsibility for his own proper use of the certificate number and shall pay all costs of any legally assessed penalties relating to the Contractor's improper use of the exemption certificate number.
- 32.3 Should the Owner fail to provide a proper exemption certificate number, the amount of the Sales Tax for the project shall be allowed as an extra to the Contract amount.

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### **33. TAXES:**

The Contractor shall make all necessary forms for and shall pay for all taxes on labor and materials, such as Sales Tax, Social Security Tax, Withholding Tax, etc., without additional cost to the Owner, where such taxes are required by the State and Federal Laws.

### **34. OMISSIONS:**

- 34.1 The Drawings and Specifications are intended to cooperate anything shown on the Drawings but not mentioned in the Specifications or vice versa, or anything not expressly set forth in either, but which is reasonable implied, shall be furnished as though specifically shown and mentioned in both, without any charge.
- 34.2 Should anything be omitted from the Drawings, necessary to the proper construction of the work herein described, it shall be the duty of the Contractor to so notify the Architect before signing the Contract and in the event of the Contractor failing to give such notice, he shall make good any damages of defects in his work caused thereby without extra charge.

### **35. TEMPORARY WATER:**

The General Contractor and subcontractors may use existing hose bibs for temporary water. They will be responsible for hose connections and maintenance of the same.

### **36. PROTECTION OF WORK AND PROPERTY:**

The General Contractor shall take charge of and assume general responsibility for proper protection of the building during construction. He shall further provide substantial enclosures at all openings as necessary for protection, including doors and locks. Each Contractor shall assume responsibility for his materials stored on the premises.

### **37. EQUAL EMPLOYMENT OPPORTUNITY:**

Sections 1 through 5 of K.S.A. 44-1030 (as follows) shall be included in this Contract except those subcontractors, vendors or suppliers whose cumulative dollar total in any fiscal year is \$5,000 or less, or who have fewer than forty (40) employees:

- 37.1 The contractor shall observe the provisions of the Kansas Act against discrimination and shall not discriminate against any person in the performance of work under the present Contract because of race, religion, color, sex, physical handicap unrelated to such person's ability to engage in the particular work, national origin or ancestry;
- 37.2 In all solicitations or advertisements for employees, the contractor shall include the phrase, "equal opportunity employer," or a similar phrase to be approved by the commission;
- 37.3 If the contractor fails to comply with the manner in which the contractor reports to the commission in accordance with the provisions of K.S.A. 1976 Supp. 44-1030, as amended, he shall be deemed to have breached the present Contract and it may be cancelled, terminated or suspended, in whole or in part, by the contracting agency.
- 37.4 If the contractor is found guilty of a violation of the Kansas Act against discrimination under a decision or order of the commission which has become final, the contractor shall be deemed to have breached the present Contract and it may be cancelled, terminated or suspended, in whole or in part, by the contracting agency;
- 37.5 The contractor shall include the provisions of Paragraphs (1) through (4) inclusively of this Subsection (a) in every subcontract or purchase order so that such provisions will be binding upon such subcontractor or vendor.

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38. **REPAIRS:**

Unless the Architect grants permission to repair any defective work, remove defective work from project and replace with new work in accordance with Contract Documents, permission to repair such work shall not constitute a waiver of Architect's right to require complete replacement of defective work if repair operation does not restore quality and appearance of member or surface to Architect's satisfaction. If permission is granted, repair according to Architect's direction.

39. **LAWS AND ORDINANCES:**

The Contractor is required to familiarize himself with and observe all laws, ordinances and regulations relating to the work, and such laws, ordinances and regulations are hereby incorporated in and made a part of these specifications and the Contract for this work.

All work shall comply with the Americans with Disabilities Act.

40. **TRASH AND DEBRIS:**

Each Contractor shall be responsible to remove all loose paper, cardboard, etc. from the site in a consistent manner to avoid blowing of trash and debris. The General Contractor shall be responsible for maintaining a central trash receptacle that can be used by all contractors.

41. **COMMENCE WORK:**

This contractor will coordinate all work and installation with the General Contractor.

42. **PROJECT COMPLETION:**

All construction begun prior to the release of school shall accommodate to the best of their ability the school and its functions.

43. **JOB SITE DELIVERY/STORAGE:**

This Sub-contractor shall be responsible for delivery, unloading of transport at jobsite, storage, assembly/erection, and installation. Arrangements for delivery and storage shall be prearranged with the General Contractor prior to execution. If the General Contractor does not have space allocated for the storage of materials within the construction area, this sub-contractor shall provide storage on site acceptable to the Architect and Owner. This Contractor will be back charged expenses of the General Contractor should the General Contractor assume any of the Sub-Contractor's responsibility.

44. **PAYMENTS AND COMPLETION:**

44.1 On or before the 15th day of each month, the Contractor shall submit to the Architect an itemized application for payment on AIA APPLICATION AND CERTIFICATE FOR PAYMENT, Form G702, supported by such data substantiating the Contractor's right to payment as the Owner or Architect may require. **The application will be approved at the Board of Education Meeting (Third Monday of each month) and subsequently paid. If the application is not to the Architect's office by the 15th, to meet the BOE meeting schedule, the application will not be approved until the following BOE meeting and subsequently paid.**

44.2 Payments shall be due on work completed and on materials delivered and suitably stored only at project site. The materials shall not be removed from the project site after payment for same has been made.

44.3 If the Contractor has made Application for Payment as above, the Architect will, with reasonable promptness and within seven days after receipt of the Application, issue a Certificate for Payment to the Owner, with a copy to the Contractor, in the amount of 90% of the value of the Contract the Architect determines has been completed to date of application, less any amounts previously paid to the Contractors, or state in writing his reasons for withholding a certificate.

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45. **PROTECTION OF PERSONS AND PROPERTY:**

45.1 This Contractor shall comply with all applicable and current U.S. Department of Labor OSHA (Occupational Safety and Health Administration) Construction Industry Standards and the safety requirements as established by the General Contractor.

46. **PERFORMANCE + LABOR/MATERIAL BONDS:**

46.1 This Contractor shall pay the premium for and furnish a Performance Bond, Labor and Material Bond and a Kansas Statutory Bond, in full amount of the Contract Sum to cover faithful performance of the Contract and payment of all obligations arising thereunder, within seven calendar days after signing Contract. Furnish bonds in forms specified and with sureties approved by Owner and authorized to transact business in Kansas. Furnish a receipt showing that the Kansas Statutory Bond has been filed with the Clerk of the District Court at the **Sedgwick County Court House**.

46.2 Furnish Owner, through the Architect, with three copies of each of required bonds.

46.3 SUBPARAGRAPH 11.1.1 SHALL INCLUDE THE FOLLOWING MINIMUM LIMITS OF LIABILITY ON INSURANCE UNLESS HIGHER LIMITS ARE REQUIRED BY LAW:

- A. Compensation Insurance: The Contractor shall purchase and maintain during the life of this contract workmen's Compensation Insurance for all of his employees. In case any work is sub-let, the Contractor shall require the sub-contractor similarly to provide Workmen's Compensation Insurance on all of the latter's employees unless such employees are covered by the protection afforded by the Contractor's Insurance. In case any class of employees engaged in work under this contract at the Workmen's Compensation Statute, the Contractor shall provide adequate and suitable insurance for the protection and his employees not otherwise protected.
- B. The Contractor and each sub-contractor shall provide \$500,000.00 employer's liability coverage on all Workmen's Compensation policies.
- C. Public Liability and Property Damage Insurance: The Contractor shall purchase and maintain during the life of this contract such Public Liability and Property Damage Insurance as shall adequately protect him and any sub-contractor performing work covered by this contract from claims for property damages, which may arise from operations under this contract, whether such operations be by himself or by any sub-contractor or by anyone directly or indirectly employed by either of them and the amounts of such insurance shall be not less than the limits specified below:
- D. All property damage liability shall include broad form property damage coverage. The exclusion for SCU hazards shall be deleted. Automobile Liability insurance shall cover liability arising from Ownership, maintenance or use of owned, non-owned, hired or leased motor vehicle, trailer or semi-trailer.

**End of Section 00300**

SECTION 12760 - TELESCOPING GYM SEATS (SEPARATE CONTRACT)

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes: Telescoping Gym Seating includes electrically operated systems of multiple-tiered seating rows comprising of seat, deck components, understructure that permits closing without requiring dismantling, into a nested configuration for storing or for moving purposes.
1. Typical applications include the following:
- a. Wall Attached Telescoping Gym Seats.  
Bleacher Base Bid to include Banks A and B with out backs.  
Bleacher Alternate 1 to include Banks C and D.  
Bleacher Alternate 2 to include backs in the center 3 sections of Bank A, except on the last row.
- B. Related Sections:
2. Division 9 finishes sections for adequate floor & wall construction for operation of Telescoping Gym Seats. Flooring shall be level and rear wall plumb within 1/8" [3mm] in 8'-0 [2438mm]. Maximum bleacher force on the floor, of a 25'-6" [7772] section, shall be a static point load of less than 300 psi [2.068 N/mm<sup>2</sup>].
2. Division 16 Electrical sections for electrical wiring and connections for electrically operated Telescoping Gym Seats.
- A. Alternates: This section specifies alternates for Telescoping Gym Seat products. Refer to Part 2 products for alternate products, and to Division 1 Alternates sections and other bid documents, if any, for alternate requirements.

**A. BIDDER QUALIFICATIONS**

**1) Bidders are required to be an authorized dealer or manufacturer for equipment proposed which on a day-to-day basis regularly provide the equipment offered. Bidders are further advised that only standard production models or standard options will be acceptable for award. Equipment offered shall be currently manufactured on an active assembly line. The State is only interested in proven equipment; provided, installed, and serviced by Authorized Dealers capable of providing references.**

**2) INSTALLER QUALIFICATIONS:**

**Bleacher installer shall be Factory Certified by the Manufacturer. Proof of Factory Certified Installation Certificate shall be provided along with the Invitation to Bid. Failure to provide this information shall result in rejection of bid. (No Exceptions Taken)**

**3.) SERVICE CAPABILITY:**

**The Bleacher Contractor must be able to show proof of full time service capability by factory certified technicians directly employed by the Bleacher Contractor. Sub-Contractors of the Bleacher Contractor or Factory Technicians located outside of the State do not qualify under this service response requirement. Adequate and satisfactory availability of repair parts and supplies, and ability to meet warranty and service requirements are a requirement of this**

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**Invitation to Bid. The State reserves the right to satisfy itself by inquiry or otherwise as to bidder's capabilities in this regard. A four (4) to eight (8) hour maximum on-site repair response is required during normal working hours, 8 a.m. to 5 p.m. weekdays (excluding holidays) All Full Time Service Personnel shall be Factory Authorized and Trained. Proof of Service Capability along with a listing of service parts regularly maintained in inventory shall be provided along with the Invitation for Bid. Failure to provide this information shall result in rejection of bid.**

### **1.02 REFERENCES**

- A. National Fire Protection Association (NFPA)
  - 1. NFPA 102 Standard for Assembly Seating, Tents and Membrane Structures.
- B. American Welding society (AWS):
  - 1. AWS D1.1 Structural Welding Code - Steel.
  - 2. AWS D1.3 Structural Welding Code - Sheet Steel.
- C. American Institute of Steel Construction (AISC):
  - 1. AISC - Design of Hot Rolled Steel Structural Members.
- D. American National Standards Institute (ANSI).
- E. American Iron & Steel Institute (AISI):
  - 1. AISI - Design Cold Formed Steel Structural Members.
- F. Aluminum Association (AA):
  - 1. AA - Aluminum Structures, Construction Manual Series.
- G. American Society for Testing Materials (ASTM):
  - 1. ASTM - Standard Specification for Properties of Materials.
- H. National Forest Products Association (NFoPA):
  - 1. NFoPA - National Design Specification for Wood Construction.
- I. Southern Pine Inspection Bureau (SPIB):
  - 1. SPIB - Standard Grading Rules for Southern Pine.
- J. National Bureau of Standards/Products Standard (NBS/PS):
  - 1. PS1 - Construction and Industrial Plywood.
- K. Americans with Disability Act (ADA)
  - 1. ADA - Standards for Accessible Design.

### **1.03 MANUFACTURER'S SYSTEM ENGINEERING DESCRIPTION**

- A. Structural Performance: Engineer, fabricate and install telescopic gym seating systems to the following structural loads without exceeding allowable design working stresses of materials involved, including anchors and connections. Apply each load to produce maximum stress in each respective component of each gym seat unit.
  - 1. Design Loads: Comply with NFPA 102, 1992 Edition, Chapter 5 for design loads.

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- B. Manufacturer's System Design Criteria:
1. Gymnasium seat assembly; Design to support and resist, in addition to it's own weight, the following forces:
    - a. Live load of 120 lbs per linear foot [162.69 N/m] on seats and decking
    - b. Uniformly distributed live load of not less than 100 lbs per sq. ft. [135.58N/m] of gross horizontal projection.
    - c. Parallel sway load of 24 lbs. [32.53 N/m] per linear foot of row combined with (b.) above
    - d. Perpendicular sway load of 10 lbs. [13.56 N-m] per linear foot of row combined with (b.) above
  2. Hand Railings, Posts and Supports: Engineered to withstand the following forces applied separately:
    - a. Concentrated load of 200 lbs. [90.72 kg] applied at any point and in any direction.
    - b. Uniform load of 50 lbs. per foot [.344 N/mm<sup>2</sup>] applied in any direction.
  3. Guard Railings, Post and Supports: Engineered to withstand the following forces applied separately:
    - a. Concentrated load of 200 lbs. [90.72 kg] applied at any point and in any direction along top rail.
    - b. Uniform load of 50 lbs. per foot [.344 N/mm<sup>2</sup>] applied horizontally at top rail and a simultaneous uniform load of 100 lbs. per foot [.689 N/mm<sup>2</sup>] applied vertically downward.
  4. Member Sizes and Connections: Design criteria (current edition) of the following shall be the basis for calculation of member sizes and connections:
    - a. AISC: Manual of Steel Construction
    - b. AISI: Specification for Design of Cold Formed Steel Structural Members
    - c. AA: Specification for Aluminum Structures
    - d. NFOPA: National Design Guide For Wood Construction.

### 1.04 SUBMITTALS

- A. Section Cross-Reference: Required submittals in accordance with "Conditions of the Contract" and Division 1 General Requirements sections of this "Project Manual."
- B. Project Data: Manufacturer's product data for each system. Include the following:
1. Project list: Ten (10) seating projects of similar size, complexity and in service for at least five (5) years.
  3. Deviations: List of deviations from these project specifications, if any.
- C. Shop Drawings: Indicate Telescoping Gym Seat assembly layout. Show seat heights, row spacing and rise, aisle widths and locations, assembly dimensions, anchorage to supporting structure, material types and finishes.
1. Wiring Diagrams: Indicate electrical wiring and connections.
  2. Graphics Layout Drawings: Indicate pattern of contrasting or matching seat colors
- A. Samples: Seat materials and color finish as selected by Architect from manufacturers offered color finishes.

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- B. **Manufacturer Qualifications:** Certification of insurance coverage and manufacturing experience of manufacturer, and copy of a telescopic load test to all loads described in 1.03 above, observed by a qualified independent testing laboratory, and certified by a registered professional structural engineer verifying the integrity of the manufacturer's geometry design and base structural assumptions.
- F. **Installer Qualifications:** Installer qualifications indicating capability, experience, and official Certification Card issued by manufacturer of telescopic seating.
- G. **Engineer Qualifications:** Certification by a professional engineer registered in the state of manufacturer that the equipment to be supplied meets or exceeds the design criteria of this specification.
- H. **Operating/Maintenance Manuals:** Provide to Owner maintenance manuals. Demonstrate operating procedures, recommended maintenance and inspection program.
- I. **Warranty:** Manufacturers standard warranty documents.

### **1.05 QUALITY ASSURANCE**

- A. **Seating Layout:** Comply with current IBC 2006 Standard for Assembly seating, Tents, and Membrane Structures, and specifically with Folding and Telescopic Seating, except where additional requirements are indicated or imposed by authorities having jurisdiction.
- B. **Welding Standards & Qualification:** Comply with AWS D1.1 Structural Welding Code - Steel and AWS D1.3 Structural Welding Code - Sheet Steel.
- C. **Insurance Qualifications:** Mandatory that each bidder submit with his bid an insurance certificate from the manufacturer evidencing the following insurance coverage:
  - 1. **Workers Compensation - including Employers Liability with the following limits:**
    - \$500,000.00 (US) Each Accident
    - \$500,000.00 (US) Disease - Policy Limit
    - \$500,000.00 (US) Disease - Each Employee
  - 2. **Commercial General Liability - including premises/ operations, independent contractors and products completed operations liability. Limits of liability shall not be less than \$5,000,000.00 (US).**
- D. **Manufacturer Qualifications:** Manufacturer who has a minimum of 40 years of experience manufacturing telescoping gym seats and can demonstrate continual design enhancement and 25-year minimum product life-cycle support of telescopic seating.
- E. **Installer Qualifications:** Engage experienced Installer who has specialized in installation of telescoping gym seat types similar to types required for this project and who carries an official Certification Card issued by telescoping gym seat manufacturer.
- F. **Engineer Qualifications:** Engage licensed professional engineer experienced in providing engineering services of the kind indicated that have resulted in the successful installation of telescoping bleachers similar in material, design, fabrication, and extent to those types indicated for this project.

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### **1.06 DELIVERY, STORAGE AND HANDLING**

- A. Deliver telescopic gym seats in manufacturers packaging clearly labeled with manufacturer name and content.
- B. Handle seating equipment in a manner to prevent damage.
- C. Deliver the seating at a scheduled time for installation that will not interfere with other trades operating in the building.

### **1.07 PROJECT CONDITIONS**

- A. Field Measurements: Coordinate actual dimensions of construction affecting telescopic bleachers installation by accurate field measurements before fabrication. Show recorded measurements on final shop drawings. Coordinate field measurements and fabrication schedule with construction progress to avoid delay of Work.

### **1.08 WARRANTY**

- A. Manufacturer's Product Warranty: Submit manufacturer's standard warranty form for telescopic bleachers. This warranty is in addition to, and not a limitation of other rights Owner may have under Contract Documents.
  - 1. Warranty Period: Five years from Date of Acceptance.
  - 2. Beneficiary: Issue warranty in legal name of project Owner.
  - 3. Warranty Acceptance: Owner is sole authority who will determine acceptance of warranty documents.

### **1.09 MAINTENANCE AND OPERATION**

- A. Instructions: Both operation and maintenance shall be transmitted to the Owner by the manufacturer of the seating or his representative.
- B. Service: Maintenance and operation of the seating system shall be the responsibility of the Owner or his duly authorized representative, and shall include the following:
  - 1. Operation of the Seating System shall be supervised by responsible personnel who will assure that the operation is in accordance with the manufacturer's instructions.
  - 2. Only attachments specifically approved by the manufacturer for the specific installation shall be attached to the seating.
  - 3. An annual inspection and required maintenance of each seating system shall be performed to assure safe conditions. At least biannually the inspection shall be performed by a professional engineer or factory qualified service personnel.

## **PART 2 - PRODUCTS**

### **2.01 MANUFACTURERS**

- A. Manufacturer: Hussey Seating Company, U.S.A.
  - 1. Address: North Berwick, Maine, 03906

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2. Telephone: (207) 676-2271; Fax: (207) 676-9690
3. Product: MAXAM Telescopic Gym Seat System by Hussey Seating Company
  - a.1 Model: Bank A; MAXAM Plus Series Telescopic Gym Seats, adjustable row spacing in either 30” or 33”.
  - a.2. Model: Banks B, C, and D; MAXAM26 Series Telescopic Gym Seats, adjustable row spacing in two inch increments from 22 inches [559] to 26 inches [660].
  - b. Aisle Type: foot level aisles, front steps, intermediate aisle steps.
  - c. Seat Type: 10” (Banks B,C, & D) and 12” Courtside Collection (Bank A).
    - 1) Seat color finish: manufacturers 15 standard colors for Courtside Collection
    - 2) Seat design logos: up to 3 color combinations for seating design graphics and/ or school logos.
  - d. Rail Type: Self-storing end rail, store-in-place aisle hand rails.
    - 1.) Rail color finish: Standard black.
  - e. Operation: electrical power.
    - 1) Electrical Power System: Integral power with 2 pendant controls.

4. Product Description/Criteria:	<b>A</b>	<b>B</b>	<b>C &amp; D</b>
a. Bank Length:	135’ 11 ¼”	112’ 8”	38’
b. Aisle Widths:	3@6’, 1@5’5 ¼”	4 @ 4’6”	2 @3’
c. Number of Tiers:	12	10	6
d. Row Spacing(s):	30”	26”	24”
e. Row Rise:	11 5/8”	11 5/8”	11 5/8”
f. Open Dimension:	28’ 10”	20’ 7”	11’ 3”
g. Closed Dimension:	4’ 2”	3’ 7”	3’5”
h. Overall Unit Height:	12’ 0 7/8”	10’ 1 5/8”	6’ 3 1/8”
i. Net Capacity:	915	662	248
Total Net Capacity	1825		

5. Miscellaneous Product Accessories: scorer's tables, end curtains.
6. Special Applications: None.
3. Handicap Seating Provisions: Provide first tier modular recoverable Flex-rows, per requirements of (ADA) Americans with Disability Act located as indicated.
4. Special Seating Graphics: Provide contrasting seat colors to create graphic pattern as indicated.

B. Other Acceptable Manufacturers: Will be considered if in compliance with these specifications. Deviations must be submitted with bid in order that a fair and proper evaluation be made. Those bidders not submitting a list of deviations will be presumed to have bid as specified.

**2.02 ALTERNATES**

- A. Base Bid:
  1. Base Bid Product: Provide and install complete bleacher Banks A and B, with no backs.
- B. Alternate No. 1: In addition to Base Bid; Provide and install complete the end banks of bleachers C and D with no backs.

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- C. Alternate No.   2   : Provide Contoured Plastic Backrests in the 3 mid sections of Bank A only per drawings, less the back row.

### **2.03 MATERIALS**

- A. Lumber: ANSI/Voluntary Product 20, B & B Southern Pine
- B. Plywood: ANSI/Voluntary Product PS1, APA A-C Exterior Grade.
- C. Structural Steel Shapes, Plates and Bars: ASTM A 36.
- D. Uncoated Steel Strip (Non-Structural Components): ASTM A569, Commercial Quality, Hot-Rolled Strip.
- E. Uncoated Steel Strip (Structural Components): ASTM A570 Grade 33, 40, 45, or 50, Structural Quality, Hot-Rolled Strip.
- F. Uncoated Steel Strip (Structural Components): ASTM A607 Grade 45 or 50, High-Strength, Low Alloy, Hot-Rolled Strip.
- G. Galvanized Steel Strip: ASTM A653 Grade 40, zinc coated by the hot-dip process, structural quality.
- H. Structural Tubing: ASTM A500 Grade B, cold-formed.
- I. Polyethylene Plastic: ASTM D 1248, Type III, Class B; molded, color-pigmented, textured, impact-resistant, structural formulation; in color indicated or, if not otherwise indicated, as selected by Architect from manufacturer's standard colors.
- J. Fasteners: Vibration-proof, of size and material standard with manufacturer.

### **2.04 UNDERSTRUCTURE FABRICATION**

- A. Frame System:
  - 1. Wheels: Not less than 5" [127] diameter by 1 1/4" [32] with non-marring soft rubber face to protect wood and synthetic floor surfaces, with molded-in sintered iron oil-impregnated bushings to fit 3/8" [10] diameter axles secured with E-type snap rings.
  - 2. Lower Track: Continuous Positive Interglide System interlocks each adjacent CPI unit using an integral, continuous, anti-drift feature and through-bolted guide at front to prevent separation and misalignment. CPI units at end sections of powered banks and manual sections shall contain a Low Profile Posi-Lock LX to lock each row in open position and allow unlocking automatically. Provide adjustable stops to allow field adjustment of row spacings.
  - 4. Slant Columns: High tensile steel, tubular shape.
  - 5. Sway Bracing: High tensile steel members through-bolted to columns.
  - 6. Deck Stabilizer: High tensile steel member through-bolted to nose and riser at three locations per section. Interlocks with adjacent stabilizer on upper tier using low-friction nylon roller to prevent separation and misalignment. Incorporates multiple stops to allow field adjustment of row spacings.
  - 7. Deck Support: Securely captures front and rear edge of decking at rear edge of nose beam and lower edge of riser beam for entire length of section.

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### B. Deck System:

1. Section Lengths: Each bank shall contain sections not to exceed 25'-6" [7772] in length with a minimum of two supporting frames per row, each section.
2. Nose beam and Rear Riser beam: Nose beam shall be continuously roll-formed closed tubular shape of ASTM A653 grade 40, Riser beam shall be continuously roll-formed of ASTM A653 grade 40. Nose and Riser beam shall be designed with no steel edges exposed to spectator after product assembly.
3. Attachment: Through-Bolted fore/aft to deck stabilizers, and frame cantilevers.
4. Decking: 5/8" [16], AC grade clear-top-coated tongue and groove Southern Yellow Pine; or BC grade polyethylene-top-coated tongue and groove Douglas Fir plywood; both of interior type with exterior glue, 5-ply, all plies with plugged crossbands, produced in accordance with National Bureau of Standards PS-1-97. Plywood shall be cut and installed with top, center and bottom ply grain-oriented from front of deck to rear of deck (nose beam to riser beam). Adjacent pieces shall be locked together with tongue and groove joint from front to rear of deck. Longest unsupported span: MAXAM 26, 21 1/2" [546]. Panalam, polyethylene, vinyl type laminated decking is not acceptable.
1. Deck End Overhang: Not to exceed frame support by more than 5'-7" [1702].

## 2.05 SEATING FABRICATION -

- A. Plastic Seat System – Courtside Collection XC10 (10") (Banks B, C and D) or XCS12 (12") (Bank A):

Hussey Courtside Collection Series embodies the latest leading edge innovations in linear telescopic seating modules. Courtside seats utilize a harmonious blend of advanced ergonomic principals, architecturally appealing design, safety, value and performance.

1. Seat Modules: 18" [457] long assembled, gas assisted injection-molded, high density, 100% recyclable HDPE (high density polyethylene) modules in monochromatic colors providing, dual textured scuff resistant 10" [254] or 12" [305] wide seat surface with 1/2" [13] minimum interlock on seat and face. Unit structural tested to 600 lbs occupant load.

### Courtside XC10 Seat Module

2. XC10 – 10" Comfort Profile
  - ✓ 10" wide continuous comfort curve style bench seat
  - ✓ Ergonomically contoured forward "waterfall" edge for enhanced spectator comfort and minimization of sensitive pressure point area, regardless of leg positioning.
  - ✓ Fore & Aft contoured seat surface for uniform support and minimize high pressure points under the buttocks.
  - ✓ Seat height ranges from deck to t/o seat range from 16-1/8" to 18-1/8"
  - ✓ 21-1/2" clear foot space area, regardless of leg positioning.
3. Integrally molded end caps at aisle end locations for clean finished appearance.

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4. Optional: Custom color graphic logo design application for end cap insert.
5. Integrally molded recess pockets to accept seat number and row letters.
6. Integrally molded rear closure panel at back of seat to allow for “continuous clean sweep” of debris at deck level and minimized visibility of structural ribbing.
7. Seat Attachment: Each plastic seat module shall be securely anchored by a 12 ga steel clamp bracket that provides a steel-to-steel, through bolted attachment to the front nose beam of the bleacher. Attachment eliminates fore / aft movement of the seat module on the nose beam.

### **Courtside XCS12 Seat Module**

8. XCS12 – 12” Comfort Profile
  - ✓ Individual ergonomically contoured seat module
  - ✓ Compound contoured seats with fore/aft and horizontally contoured curves provide a “scaloped” surface area for maximum spectator comfort. Forward edge “waterfall” for enhanced spectator comfort and minimization of sensitive pressure point area, regardless of leg positioning.
  - ✓ Fore & Aft contoured seat surface for uniform support and minimize high pressure points under the buttocks.
  - ✓ Seat height ranges from deck to t/o seat range from 16-1/8” to 18-1/8”
  - ✓ 21-1/8” clear foot space area.
9. Bold contoured design lines for maximum architectural appeal and application with modern or traditional facility spaces.
10. Integrally molded end caps at aisle end locations for clean finished appearance.
11. Optional: Custom color graphic logo design application for end cap insert.
12. Integrally molded recess pockets to accept seat number and row letters.
13. Integrally molded rear closure panel at back of seat to allow for “continuous clean sweep” of debris at deck level and minimized visibility of structural ribbing.

Seat Attachment: Each plastic seat module shall be securely anchored by a 12 ga steel clamp bracket that provides a steel-to-steel, through bolted attachment to the front nose beam of the bleacher. Solid attachment of clamp to nose beam eliminates fore / aft movement of the seat module on the nose beam.

## **1.00 SHOP FINISHES**

- A. Understructure: For rust resistance, steel understructure shall be finished on all surfaces with black “Dura-Coat” enamel. Understructure finish shall contain a silicone additive to improve scratch resistance of finish.

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- B. Wear Surfaces: Surface subject to normal wear by spectators shall have a finish that does not wear to show different color underneath:
  - 1. Steel nosing and rear risers shall be pre-galvanized with a minimum spangle of G-60 zinc plating.
  - 2. Decking shall have use-surfaces to receive both a sealer coat and wear-resistant high gloss clear urethane finish. **Polyethylene, vinyl, panalam laminated decking is not acceptable.**
- A. Railings: Steel railings shall be finished with powder-coated semi - gloss black.

### 2.07 FASTENINGS:

- A. Welds: Performed by welders certified by AWS standards for the process employed.
- B. Structural Connections: Secured by structural bolts with prevailing torque lock nuts, free-spinning nuts in combination with lock washers, or Riv-nuts in combination with lock washers.

### 1.01 ELECTRICAL OPERATION

- A. Integral Power: Furnish and install Hussey PF(1/2/3/4), an integral automatic electro-mechanical powered frame propulsion system, to open and close telescopic seating. Integral Power and Control System shall be Underwriters Laboratories, Inc. (UL) approved and listed.
  - 1. Operation shall be with a removable pendant control unit which plugs into seating bank for operator management of stop, start, forward, and reverse control of the power operation.
  - 2. Each Powered Frame unit shall consist of output shaft gear reducer with 6" [152] diameter x 4" [102] wide wheels covered with non-marring 1/2" [13] thick composite rubber. Reducers shall be fitted with 3 phase induction motors which will provide an average operating speed of (46/25) f.p.m [.23/ .12 M/s].
  - 3. Operating Loads: Each Powered Frame provides (220 / 550) lbs pull force [978 / 2446 N] which equals approximately (28 / 35) psi [.192 / .241 N/mm<sup>2</sup>] lateral force on the floor..
  - 4. Electrical: Seating Manufacturer shall provide all wiring within seating bank including pendant control.
    - . Each unit for PF(1/2/3/4) is power operated by a 1/2 horsepower, 1725 R.P.M., 208 Volts, 50/60 Hz., three phase 1.25 service factor motor. This motor draws a full load current of 2.2 amperes. Power supply required shall be 120/208 volts three phase 5 wire plus ground service with 20 amps. Motors, housing, and wiring shall be installed and grounded in complete accord with the National Electrical Code.
    - a. The electrical contractor shall provide required power source with no greater than 4% voltage drop at the seatings' junction box. The electrical contractor shall perform all wiring connections in junction box that are attached to or a part of the building.

### 2.10 ACCESSORIES

- A. Access Panels (Hatchway): Provide access to unit at 4<sup>th</sup> or 5<sup>th</sup> tier (Bank A).
- B. Flex-Row: Provide first row modular recoverable seating units to be utilized by persons in wheelchairs and able-bodied persons. Each Flex-Row unit shall have an unlock handle for

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easy deployment if wheelchair or team seating access is needed. Unlock handle shall lock the bleacher seats into position when fully opened.

1. **Provide a black full-surround steel skirting with no more than ¾" floor clearance for safety and improved aesthetics. Wood skirting &/or skirting more than ¾" allowing objects to pass under are not acceptable.**
  2. Provide a black injection molded end cap for the nose beam for safety and improved aesthetics.
  3. Provide a mechanical positive lock when the Flex-Row system is in the open and used position.
  4. Flex-Row modular units are designed to achieve multi-use front row seating to accommodate team seating, ADA requirements and facility specific requirements. Flex-Row units are available in modular units from 2 to 7 seats wide as well as full section widths. **First row Non-Recoverable is not acceptable. All of the first row must be recoverable with out rails or the requirement for tools to manually recover the row.**
- C. Front Aisle Steps: Provide at each vertical aisle location front aisle step. Front steps shall engage with front row to prevent accidental separation or movement. Steps shall be fitted with four non-skid rubber feet each 1/2" [13] in diameter. Blow molded end caps shall have full radius on all four edges. Quantity and location as indicated.
- D. Non-Slip Tread: Provide at front edge of each aisle location an adhesive-backed abrasive non-slip tread surface.
- E. Foot Level Aisles: Provide deck level full width vertical aisles located as indicated.
- F. Intermediate Aisle Steps: Intermediate aisle steps shall be of boxed fully enclosed type construction. Blow molded end caps shall have full radius on all four edges. Step shall have adhesive-backed abrasive non-slip tread surface. Quantity and location as indicated.
- G. Intermediate Aisle Handrails: Provide single pedestal mount handrails 34" [864] high with terminating mid rail. Handrails shall be attached to the socket and shall lift and rotate 90° for easy storage in socket. Aisle handrails that are detached from the socket for storage are unacceptable.
- H. Self Storing End Rails: Provide steel self-storing 42" [1066] high above seat, end rail with tubular supports and intermediate members designed with 4" [102] sphere passage requirements.
- I. Scorer's Table: Provide two 8' [2438] x 15" [4572] scorer's table. Table top shall be tan high pressure laminate on 5/8" [16] balance veneer core with edge molding. Integral perimeter frame to include tubular folding steel legs permanently attached to top with screws.
- J. Contoured Plastic Folding Backrests: (Alternate #2; Middle 3 sections of seats on Bank A only) Gym seating shall include 18" [457] (nominal size) compound contoured plastic backrests mounted on folding steel supports. Plastic backs shall be one-piece double wall blow molded pigmented polyethylene shells. Backrests shall manually fold into a footwell for storage.

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- K. End Closure Curtains: Provide closure curtains fabricated of vinyl-coated 14oz Polyester fabric on open ends of telescopic seating. Curtains to be permanently attached to wall or rear closure panel and secured to individual rows of seating. Curtain to open with seating unit into taught secure configuration and fold automatically as seating unit closes. End curtains to be supplied on open ends with folding end rails only.
- L. **Safety Accessories: Provide the following safety features:**
- 1. Coin Round or Roll all edges of exposed metal on top and underneath Bleacher to eliminate sharp edges. Provide safety ease edges, coined edges, or rounded edges for the bleacher understructure components as follows. Diagonal or X braces and deck support or deck stabilizers. Systems provided with sharp edges or corners, to be rounded off in the field and field painted.**
  - 2. Provide plastic end cap on nose metal at Bank ends to close off edges to prevent spectator injury.**
  - 3. Provide plastic end cap on back of deck supports on 1<sup>st</sup> 7 Rows to prevent spectator injury.**
  - 4. On 1<sup>st</sup> Row, provide front and side skirt boards any where there is an exposed end to prevent players/balls from sliding underneath the 1<sup>st</sup> Row.**
  - 5. Provide metal cover over motor chains and wheels to protect chains from debris and provide a safety switch that if cover is taken off the power system will not work.**
  - 6. Provide metal end deck cover on each row to cover exposed edge of plywood at the ends of the bleachers.**
  - 7. Powered frames systems without a metal protective housing, covering drive chain and drive wheels are not permitted under this specification**

## **PART 3 - EXECUTION**

### **3.01 EXAMINATION**

- A. Verification of Conditions: Verify area to receive telescoping gym seats are free of impediments interfering with installation and condition of installation substrates are acceptable to receive telescoping gym seats in accordance with telescoping gym seats manufacturer's recommendations. Do not commence installation until conditions are satisfactory.

### **3.02 INSTALLATION**

- A. Manufacturer's Recommendations: Comply with telescoping gym seats manufacturer's recommendations for product installation requirements.
- B. General: Manufacturer's Certified Installers to install telescoping gym seats in accordance with manufacturer's installation instructions and final shop drawings. Provide accessories, anchors, fasteners, inserts and other items for installation of telescoping gym seats and for permanent attachment to adjoining construction.

### **3.03 ADJUSTMENT AND CLEANING**

- A. Adjustment: After installation completion, test and adjust each telescoping gym seats assembly to operate in compliance with manufacturer's operations manual.

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- B. Cleaning: Clean installed telescoping gym seats on both exposed and semi-exposed surfaces. Touch-up finishes to restore damage or soiled surfaces.

**3.04 PROTECTION**

- A. General: Provide final protection and maintain conditions, in a manner acceptable to manufacturer and installer to ensure telescoping gym seats are without damage or deterioration at time of substantial completion.

**END OF SECTION 12760**