

Notice of RFP for Essexville Hampton Middle/High School Bleacher Removal/Installation

RFP Due February 8th, 2023 at 3:00pm. A Mandatory Pre-Bid Meeting will be held on January 30th at 10:00 am at the Jaffe Administration Building (303 Pine Street).

The Essexville Hampton Public Schools are soliciting sealed bids for the removal and installation of **Telescoping Bleachers in the Middle School/High School Gyms.**

Bids will be accepted at the District Office **until 12:00 pm on February 8, 2023** at which time they will be publicly opened at **12:05 pm**. Public opening will take place at Essexville Hampton Public Schools Jaffe Administration Building. No oral bids or bids made via telephone/e-mail/or fax will be accepted. Bids should be signed and submitted in a sealed envelope clearly marked **"Middle School/High School Telescoping Bleacher Installation"** to the following:

Essexville Hampton Public Schools
303 Pine Street
Essexville, MI 48732
Attention: Mike Gwizdala

Bid Packets will be distributed at the Mandatory Pre-Bid Meeting. For questions - or to schedule a campus visit contact Mike Gwizdala gwizdalam@e-hps.net or 989-460-2384) Bids should be guaranteed for 90 days from the date of the bid opening.

Essexville Hampton Public Schools reserves the right to accept or reject any and all bids received and to waive omissions, irregularities, or clerical errors not affecting compliance with the bid specifications. Essexville Hampton Public Schools is a tax-exempt organization and is not subject to State or Federal taxes.

Notice: The Essexville Hampton Public Schools Board of Education does not discriminate on the basis of religion, race, color, national origin, sex, disability, or age in its programs, activities, or employment. Further, it is the policy of the Essexville Hampton Public Schools to provide an equal opportunity for all students, regardless of gender, religion, race, color, national origin or ancestry, age, disability, marital status, place of residence within the boundaries of the District, or social or economic status, and/or any other legally protected characteristic, to learn through curriculum offered in the District.

**Essexville Hampton Public Schools
Standard Instructions to Bidders**

1. **Read, Review and Comply:** It shall be the bidder's responsibility to read this entire document, review all enclosures and attachments, and comply with all requirements specified within.
2. **Receipt and Opening of Bids:** Sealed bids will be accepted in the Jaffe Admin. Office 303 Pine Street, Essexville, MI. 48732 until the time indicated on the attached RFP or Bid for goods or services.
3. **Form of Bid:** Bids shall be submitted in an easy to read form with any exceptions, deviations or modifications to the published requirements clearly noted and explained.
4. **Submission of Bids:**
 - A) Envelopes containing bids shall be sealed and clearly marked on the outside of the envelope with the name and address of the bidder, the title of the project, and the date and time of the scheduled bid opening.
 - B) Any bid received after the scheduled opening time will not be accepted.
 - C) Any bidder may withdraw their bid response by phone or written request at any time prior to the scheduled bid opening.
 - D) Phone or faxed bids will not be accepted under any circumstances.
 - E) Phone or faxed amendments to bids will not be accepted under any circumstances.
 - F) Unless otherwise specified, no bid may be withdrawn, changed, or modified in any way for a period of ninety (90) calendar days from the date of the bid opening.
 - G) Bids received prior to the time of bid opening will be securely kept unopened. The District claims no responsibility for the premature opening of a bid not properly addressed or identified.
5. **Brand Names:** Wherever in the specifications or proposal brand names, trade names, manufacturers, or catalog numbers are used, it is intended to establish a grade or quality level only and the phrase "or equal" is deemed to follow unless a prequalified list or the term "only", "no exceptions", or similar phrase is included.
6. **Taxes:** Essexville Hampton Public Schools is exempt from State and Federal taxes. Therefore, the price bid for all contracts applicable, must be exclusive of taxes.
7. **Acceptance of Bids:** Essexville Hampton Public Schools will evaluate and award to the vendor that meets the functional requirements with price being one of the factors.
8. **Essexville Hampton Public Schools Rights:** Essexville Hampton Public Schools reserves the right to accept or reject any or all bids, to waive irregularities or defects, and accept other than the low bid when deemed to be in the School Districts best interest. The School District reserves the right to mutually increase or decrease quantities or modify conditions and specifications with the selected supplier at the time of acceptance of this bid.
9. **Delivery:** Bids shall include all delivery charges with terms of Freight Prepay. Title shall not transfer to the School District until signed receipt.
10. **Laws:** The laws of the State of Michigan shall govern the rights, obligations, and remedies of the Parties under this bid and any agreement reached through this process.

11. **Disclosure:** All of the information included in your bid response is subject to the “Freedom of Information Act” and may be disclosed in its entirety after the formal, public bid opening has been completed.
12. **Independent Price Determination:** By submission of this proposal, the bidder certifies that the pricing structure offered has been arrived at independently without consultation, communication, or agreement of such prices for the purpose of restricting competition with any other bidder or competitor.
13. **Performance Bond:** A payment and performance bond is required for all proposals in the amount of 100% of the bid amount, as per Michigan Law. Your bid must include this in the case it is applicable.
14. **References:** References may be requested as a part of the solicitation or after the opening of bids. They are to be furnished when requested. Failure to honor this request will cause the bidder to be subject to rejection.
15. **Certificate of Insurance:** Essexville Hampton Public Schools requires all contractors to procure and maintain for the duration of any work performed commercial general liability and depending on project scope Essexville Hampton Public Schools may request to be listed as additional insured. The preferred General Liability insurance limit is \$1,000,000. If you do not have this limit, please send a letter of explanation detailing the reasons you feel your limits are appropriate. Also required is workers’ compensation insurance covering the statutory obligations in the State of Michigan. Essexville Hampton Public Schools must receive and accept your certificate of insurance prior to the beginning of work.
16. **Security Bond:** Each bid must be accompanied by a security bid in an amount not less than 5% of the bid, as required by law, to secure EHPS from loss or damage by reason of withdrawal of the bid or by the failure of the bidder to enter a contract performance.

Essexville Hampton Public Schools
Specifications for Middle School/High School Bleacher Removal and Installation
Bids Due February 10th – Mandatory Pre-bid Meeting January 23rd 2017

The Bidder shall be held to have examined the premises and sites so as to compare them with any contract drawings and specifications, and to have satisfied themselves as to the condition of the premises, obstructions, the actual levels, and other factors necessary for carrying out the work before the delivery of their proposal. The Bidders shall also acquaint themselves with the character and extent of the Owner's operations in the area of the work, so that they may plan their services accordingly. No allowances or extra payment will be made to a Contractor for or on account of costs or expenses occasioned by failure to comply with the provisions of this paragraph, or by reason of error or oversight on the part of the bidder, or on account of interference by the Owner's or other Contractor's activities. It shall be expressly understood that the Owner's operations will take precedence over any other activity. Having read the Specifications for the project, and having inspected the project site and verified the field conditions affecting and governing construction conditions, the undersigned hereby proposes to furnish all labor and materials to perform the specified work.

BIDDERS NAME: _____

LEGAL ADDRESS: _____

TELEPHONE: (_____) _____

FAX NUMBER: (_____) _____

Contact Person: _____

Bid Price: _____ \$ _____

Installation and Demolition Including Building Permit for Telescoping gymnasium bleachers shown in architect's plans and specifications as manufactured by Interkal of Kalamazoo, MI, or as approved by the architect and Essexville Hampton Public Schools

The undersigned, the owner or authorized officer of the below named Contractor, pursuant to the compliance requirement provided in the Essexville Hampton Public Schools Invitation For Proposal, hereby certifies, represents and warrants that the Contractor, including its officers, directors and employees is not an "Iran Linked business" within the meaning of the **Iran Economic Sanctions Act**, Michigan Public Act No. 517 of 2012 , and that in the event Contractor is awarded a contract as a result of the aforementioned RFP, the Contractor will not become an "Iran linked business" at any time during the course of performing any services under the contract

The Contractor further acknowledges that any person who four to have submitted false certifications is responsible for a civil penalty of nor more than \$250,000.00 or 2 times the amount of the contract for which false certifications was made, whichever is greater, the cost of the School Districts investigation and reasonable attorney fees, in addition to the fine. Moreover, any person who submitted a false certification shall be ineligible to proposal on an Invitation for Proposal for three (3) years from the date it is determined that the person has submitted the false certification.

Name of Company

Signature of Authorized Representative

Name of Authorized Representative

Title of Authorized Representative

Date

VENDOR INFORMATION

Name of Company _____ Street _____

City/State/Zip _____ Telephone _____

Signature _____ Name and title _____

Main Contact and phone. _____

Years in Business _____ Bleacher Product Proposed _____

REFERENCES (include contact and phone number)

1. _____

2. _____

3. _____

4. _____

5. _____

Affidavit of Bidder – Familial Relationships Form

The undersigned, the District or authorized officer of _____ (“the bidder”), pursuant to the familial disclosure requirement provided in the Frankenmuth School District (“School District”) advertisement for service bids hereby represent and warrant, except as provided below, that no familial relationships exist between the bidder(s) or any employee of the School District, and any member of the Board of Education of the School District or the Superintendent of the School District.

List any Familial Relationships and their District Position:

Company Name: _____

Signature of Bidder: _____

STATE OF MICHIGAN)
)ss.

COUNTY OF _____)

This instrument was acknowledged before me on _____ day of _____, 20____, by

BOARD OF EDUCATION
Charles Rochow – President
Paul Sansburn – Vice President
Brad Neering – Treasurer
Amanda LaVigne – Secretary
Gary Gordon – Trustee
Michael O’Neill – Trustee
Matthew Murawskir – Trustee

_____, Notary Public
_____, County, Michigan
My commission Expires: _____
Acting in the County of: _____

SCHEDULE

All bidders must attend the **Mandatory Pre-Bid Meeting on January 30th at 10:00 am at the Jaffe Administration building conference room.** Bids are due by 12:00 PM to the District Office and will be publicly opened at 12:05 PM. The project schedule shall work in conjunction with other related work and the contractor will be expected to attend a scheduling meeting to create an overall construction schedule.

PRODUCT

Demolition of Existing Bleachers to be completed by bleacher contractor. State Building Permit to be by Bleacher Contractor Including Expense & State Electrical Permits. Architectural Drawings to be submitted to the state of Michigan by Bleacher Contractor, BFS & BCC.

The bleacher system shall comprise multiple tiered, closed deck seating rows operating in a telescopic manner, incorporating the most economical quantity of sections while still complying with all loading requirements.

The first moving row shall be secured with friction or mechanical locks. Other rows shall be mechanically locked, operable only upon unlocking and cycling the first row, quantity of row locks to be determined.

Each bleacher row shall be comprised of risers, seat and deck components, and a complete set of supportive columns and braces.

The telescopic bleacher shall incorporate a locking system permitting the use of one, several, or all rows, each locked in the extended position.

Interkal Bleacher product has been specified but other bleachers may be bid as voluntary alternates with submission of specifications and sample demonstrated no less than three days prior to bid due date. The owner reserves the right to reject any alternative.

INSURANCE

A certificate of insurance naming the (School District) as an additional insured for commercial general liability insurance must be on file in the Superintendent's Office before any work is performed. We also require proof of Worker's Compensation coverage with Essexville Hampton Public Schools named as a certificate holder. The required policies & certificates are to be endorsed to give the district at least a 30 day notice of cancellation of material reduction of insurance coverage. The preferred General Liability insurance limit is \$1,000,000,000. If you do not have this limit, please send a letter of explanation detailing the reasons you feel your limits are appropriate.

GENERAL INSTRUCTIONS

Installation and Demolition Including Building Permit for Telescoping gymnasium bleachers shown in architect's plans and specifications as manufactured by Interkal of Kalamazoo, MI, or product as approved by the architect and Frankenmuth School District. Interested bidders may contact Mike Gwizdala Director of Facilities and Operations (gwizdalam@e-hps.net) (989) 460-2384 with any questions regarding the bid requirements or to visit the job site.

RELATED WORK

- Electrical to be provided by the bleacher supplier.

REFERENCE

Applicable building code. IBC 2015, MBC 2015.

DESCRIPTION OF THE SYSTEM

The bleacher system shall be comprised of multiple tiered, closed deck seating rows operating in a telescopic manner, incorporating the most economical quantity of sections while still complying with all loading requirements.

The first moving row shall be secured with friction or mechanical locks. Other rows shall be mechanically locked, operable only upon unlocking and cycling the first row, quantity of row locks to be determined by Interkal engineering.

Each bleacher row shall be comprised of risers, seat and deck components, and a complete set of supportive columns and braces.

The telescopic bleacher shall incorporate a locking system permitting the use of one, several, or all rows, each locked in the extended position.

QUALITY ASSURANCE

Qualifications

Manufacturing. Manufacturer shall be regularly engaged in the design and manufacturing of telescopic seating for not less than thirty years.

Engineering. It shall be mandatory that each bidder submit with their bid an affidavit signed by a Registered Professional Engineer stating that the product to be supplied has been tested by an independent testing facility and meets all applicable code requirements.

Deviations

It shall be the responsibility of the bidder to furnish with their bid a list clarifying any and all deviations from these specifications, written or implied, in order that a fair and proper evaluation can be made. Those bidders not submitting a list of deviations will be presumed to have bid as specified.

Guarantees

One-year guarantee. The manufacturer shall guarantee all work performed under these specifications to be free from defects for a period of one year.

Product Improvements

Seating provided shall incorporate manufacturer's design improvements and materials current at time of shipment.

SUBMITTALS

Submit manufacturer's installation instructions and descriptive literature in accordance with Section 01300.

Manufacturer's operating and maintenance manuals in accordance with Section 01700.

DESIGN CRITERIA

Telescopic bleacher design and fabrication shall conform to IBC 2009 and ADA requirements.

Telescopic gymnasium seating shall be designed to support a vertical live load of 100 PSF. Foot and seat boards shall be designed for a 120 PLF live load and, as a separate load case, a 300 LBS concentrated load. Seating shall also be designed to carry a horizontal sway force of 24 PLF parallel to the seating and 10 PLF perpendicular to the seating.

Steel components shall be cold-formed from appropriate width coil conforming to ASTM A570 - Grade C 30 KSI, ASTM A653 - Grade 33 and 50, ASTM A500 - Grade B 46 KSI as applicable.

Lumber components are kiln dried, finger jointed, edge glued southern pine of grade "B & B Finish" manufactured to the current SPIB glued-laminated standards for southern pine.

Plywood deck boards shall be fabricated from Douglas Fir Premium Underlayment with exterior glue, 5 ply minimum, solid cross band directly under face ply, species Group 1 and manufactured in accordance with APA grade trademarked PS 1.

PRODUCTS

Manufacturer

Telescopic seating as manufactured by Interkal, Kalamazoo, Michigan, is the standard of quality required and specified herein. Other bleacher products may be bid as voluntary alternates with submission of specifications and sample demonstrated to Essexville Hampton Public Schools no less than three days prior to bid due date. The owner reserves the right to reject any alternative.

Materials

Model

Interkal, closed deck telescopic bleacher.

Type

Free Standing/Floor Attached Wall Attached Reverse Fold

Quantity

Garber High School- Provide 1 Bank of Free Standing Floor Attached 10 rows high.
Garber High School- Provide 1 Bank of Wall Attached 6 rows High.
Garber High School- Provide 1 Bank of Reverse Fold Aisle Recovery 8 rows high in balcony.
Total Seating for Garber High School, 1051 Net Seats.
Cramer Middle School 4 Banks, 6 Rows High, Wall Attached, 436 Net Seats.

ADA

Notchouts. **Recoverable** Provide 3'-0 1/4" wide wheelchair spaces as shown on the plans and as required to meet local code jurisdiction compliance with ADA.
Notchouts to be 1 row deep.

Dimensions

Rise per row. 10.25. 11'½" Rise for Balcony Bleachers
Row to row spacing. 22.

Propulsion

Friction Power. Furnish Interkal friction power, integral automatic electro-mechanical propulsion system to open and close telescopic seating system. Operation shall assure full visual control of the seating bank. The Wide Track System incorporates two friction drive roller assemblies as an integral part of both first row vertical column assemblies. Each section of bleacher shall have a power system that shall consist of two vertical column roller assemblies which shall include two 6" diameter by 2 ½" wide cast drive wheels for a minimum of four friction roller contact points per section of bleacher. Each roller shall have a specially formulated 45-durometer rubber covering to grip the floor as the units roll in and out. The two friction drive roller assemblies shall be installed a minimum of 7' apart per section. The two friction roller assemblies are linked together by a continuous drive shaft driven by a 1/2 H.P. 208 volt 3-phase motor that shall enable the rollers to work simultaneously, resulting in a more efficient operation with allowance for minor variations in the floor surface. All floor friction power systems shall be controlled by a dual directional, removable walk along pendant which plugs into the front of the first row to give the operator proper position for visual control. The pendant control voltage shall be 24 VAC @ less than 50 mA for the safety of all operating personnel. **The entire power system shall be U.L. Recognized.** A 208 volt 3-phase power source, including conduit, wiring, and safety disconnect must be provided by others. The electrical contractor shall perform the connections to the seating equipment at the safety disconnect. Motors, housing, and wiring shall be installed by certified personnel.

ACCESSORIES

Foot Level Aisles

Provide footrest level aisles at locations and sizes as shown on plans and approved shop drawings.

Center Aisle. Provide a permanently attached self-storing aisle rail which is designed to eliminate all labor associated with set up and storage of the aisle rails. Manual or mechanical operating rails unacceptable

Intermediate Steps. Provide manufacturers' standard intermediate step as necessary per applicable code.

Wheelchair Seating

Recoverable Notch Outs. Provide manufacturers' standard recoverable handicap notch outs (3'-0 1/4" wide) located as shown on architectural drawings. Notch Outs to be 1 row deep. Operation of the notch out from either mode shall be accomplished by activating a single pull rod located in the front kickboard. The locking linkage shall engage a continuous locking angle and lock the notch out in either recovered or handicap mode. Recoverable seating utilizing cables or any requirement for tools to change modes will not be acceptable.

Self-Storing End Rails

Provide steel self-storing 42" high self-storing end guard rails with tubular supports and vertical intermediate members to comply with all code requirements. Rails shall be fitted to each exposed bank end from the third row and above with all steel to steel connections. Finish shall be a black polyester powder coat.

Operation Controller (pendant switch)

Provide 2 of the manufacturers' standard pendant controls plugged into a receptacle for extension and retraction. The receptacles shall be mounted behind the first row kickboard.

Vinyl Curtain

Provide 4 of the manufacturers' standard vinyl end curtains to close off under the bleacher units in the extended position. Curtain color is to be from standard swatch.

Aisle Recovery for Balcony Bleachers

Provide the manufacturer' standard system to move the entire stack 0 and 42 towards the balcony edge and recover floor space behind the beacher system.

Back Panel

Provide the manufacturer's standard polydeck finish to match deck board surface. Back panel shall be provided a maximum of 8' high.

Back Rail Fixed

Provide the manufacturer's standard back rail with vertical intermediate members to eliminate ladder effect and comply with all applicable building codes. Back rails are to be designed to not allow clearance of 4" sphere.

FABRICATION

Continuous Wheel Channel

Wheel channels shall consist of a one piece formed steel channel welded to the base of a vertical column. Wheel channels accommodate 8 to 12 wheels per row for maximum weight distribution and operating ease. The number of wheels increases as the number of rows increase.

Wheels

3-1/2" diameter with 1-1/8" non-marring soft rubber face with rounded edges designed to protect wood or synthetic floor. Provide 1/2" diameter axle for all wheels.

Columns

Electrically welded closed rectangular steel tube, 2" x 3" minimum size, fitted with a 14-gauge steel fitted rear welded gusset at the wheel channel.

Row Interlocks

Join each row structure front to rear by means of two (2) interacting steel connections, plus automatic gravity row locks where Engineering determines they are required.

Lower track guides shall be an external superslide rod to guarantee positive engagement of vertical supports without binding and assures smooth operation over uneven floor conditions.

Upper track guides shall completely interlock adjacent understructure support. A welded stop to ensure correct extension of bleacher unit on deck support. Use of bolt and nut stops is not acceptable, due to risk of loosening.

Diagonal Braces

Structural formed steel truss fitted to rows 4 and beyond. Bracing shall be attached to the rear riser at optimum locations to insure structural integrity. Bracing shall be

designed and shaped to support a minimum load of 1000 LBS of both compression and tension forces created when the bleacher is loaded.

Deck Supports

Shall be of structural steel, 11 gauge spaced not greater than 60" on center for maximum deck stiffness. Every deck support not attached to a vertical post shall have an integral nylon roller to avoid steel to steel friction points for more efficient operation.

Decking

All deck boards shall consist of 19/32" nominal Douglas Fir C-C grade plywood with exterior glue and solid cross bands. Tongue and Groove deck boards are unacceptable. An extruded aluminum "H" connector shall be placed between plywood panels. Exposed wear surfaces shall be finished with a layer of high Density polyethylene plastic .025 - .030 thick, Light Gray in color, complimentary to the seat option. Deck finishes, such as clear coat, requiring more than simple touch up to restore it to a new appearance after wear occurs are unacceptable.

Welds

All welds shall be made at the factory by welders that are qualified in accordance with AWS for the equipment and process used.

Nose Beam

Shall be one-piece 40-gauge galvanized steel. A minimum design thickness of .094" is utilized for the necessary structural integrity to accommodate section lengths up to 26'.

Rear Riser

Shall be one piece formed 14-gauge, grade 40, galvanized steel, with a continuous access joint to fully encapsulate footrest pane for ease of cleaning and additional structural support. 14 Gauge roll formed steel is utilized for the necessary structural integrity to accommodate sections length up to 26'.

Splice Plates

Each section joint shall be tied together with two structural steel members per row, employing a minimum of four steel to steel through bolt connections at the nose beam and a minimum of eight steel to steel through bolt connections at the lower steel rear riser. Gauge of splice plates to match the gauge of the nose beam and rear riser. Splice plates employing steel to plywood deck board attachments will not be acceptable. In order to minimize deflections and keep rows in alignment during operation, splice connections shall transfer both axial loads (tension/compression) and bending.

Fasteners

All structural connections shall be made with S.A.E. grade 5 or better stress rated bolts. The use of self-tapping bolts is not acceptable.

Platform Finish

Steel Understructure abraded, cleaned and finished with russet brown water base acrylic paint. Steel risers and nose beams finished with corrosion resistant silver gray matte finish with galvanized alloy painting.

SEAT OPTIONS

Excel Seat Modules

18" wide one-piece individual seating modules shall be constructed of high-density polyethylene. Provide in 10" depth.

Each module shall have three longitudinal and five transverse internal ribs to provide additional structural integrity and resistance to impact.

Each module shall have a full $\frac{3}{8}$ " interlock to the adjacent module around the perimeter to eliminate pinching hazards and assure proper alignment.

Each module shall be equipped with an 11 gauge steel bracket for steel to steel attachment of each module to the galvanized steel nose beam for maximum rigidity. All such mounting hardware shall be concealed.

Each module shall have a 2 $\frac{1}{4}$ " x 1 recessed area for optional seat numbering

End caps shall be provided at the ends of each bank (section, if manual) of seating as well as at each aisle.

Each cap shall have two recessed areas including a 3 $\frac{1}{2}$ " x 3 $\frac{1}{2}$ " area for custom logos and a 2 $\frac{1}{4}$ " x 1 area for optional row letters or numbers.

Select from the manufacturer's 15 standard solid colors.

EXECUTION

Inspection

Areas to receive seating must be free from impediments interfering with installation.

Installation shall not begin until building conditions are satisfactory.

Installation

All seating shall be installed in accordance with manufacturer's instructions and approved submittal drawings.

All seating shall be adjusted for smooth and proper operation.

Clean seating and remove all debris resulting from installation.

Cramer Middle School

QTY	DESCRIPTION	SEATS	RISE	SPAN
Bank #1	6 Row Friction Power Wall Attached 61'-6" W/ 10" Excel Seat Module -00 TBE	214	10.25	24
2	6 Row Foot Level Aisles W/ Self-Storing F-Rail			
2	6 Row Intermediate Steps			
3	1 Row Recoverable 3'-0 1/4" Notchout			
2	6 Row Self-Storing End Rails			
Bank #2	6 Row Friction Power Wall Attached 31'-6" W/ 10" Excel Seat Module -00 TBE	111	10.25	24
1	6 Row Foot Level Aisles W/ Self-Storing F-Rail			
1	6 Row Intermediate Steps			
2	1 Row Recoverable 3'-0 1/4" Notchout			
2	6 Row Self-Storing End Rails			
Bank #3	6 Row Friction Power Wall Attached 31'-6" W/ 10" Excel Seat Module -00 TBE	111	10.25	24
1	6 Row Foot Level Aisles W/ Self-Storing F-Rail			
1	6 Row Intermediate Steps			
2	1 Row Recoverable 3'-0 1/4" Notchout			
2	6 Row Self-Storing End Rails			

NOTES:

TOTAL SEATS

436

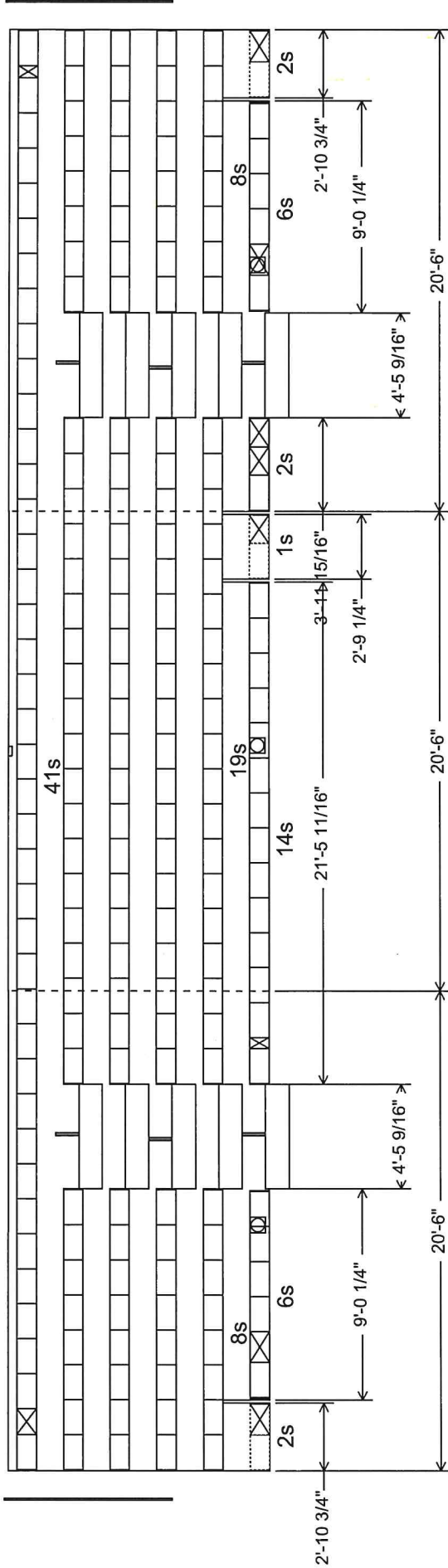


5981 East Cork Street, PO Box 2107, Kalamazoo, MI 49003-2107
telephone (269) 349-1521 fax (269) 349-6530

Cramer Middle School

Bank 1 - 61'-6" Friction Power
 Building Code: IBC 2015
 64'-0" Clear Dimension
 6 Row - 24 Span - 10.25 Rise
 214 seats (EM10)

- POWER REQUIREMENTS:**
1. Wiring and non-fusible safety switch(es) suitable for the line voltage to be provided by electrical contractor or others with branch circuit protection to each not exceeding 15 amps, when platforms are closed.
 2. Branch circuit protection devices by others to be accessible.
 3. Verify electrical information:
 Circuit 3 Phase, 208-230 Volts, 60 Hertz.
 Each 1/2 Horse Power Motor Draws 2.0-2.2 amps. Full Load.
 Motors run simultaneously.
 4. Junction box(es) by electrical contractor to be mounted at locations TBD, 5' AFF.
 Typical location shall be at section joints.

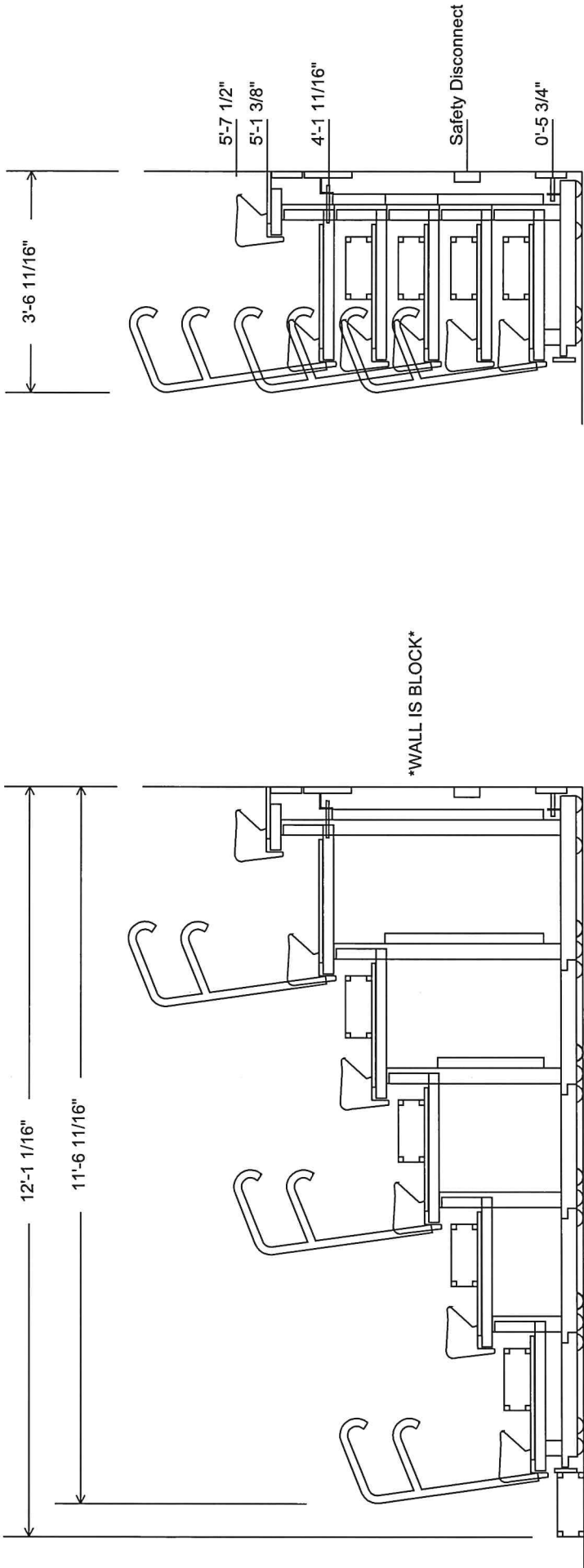


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 All drawings created are subject to Interkal approval for design and construction capability.
 Printed: January 13, 2023 v2.7.5

Cramer Middle School

Bank 1 - 61'-6" Friction Power
Building Code: IBC 2015
6 Row - 24 Span - 10.25 Rise - Wall Attached
214 seats (EM10)
5'-5 5/8" Court To Step Dimension
6'-0" Court To First Row Dimension



Side Elevation View A1

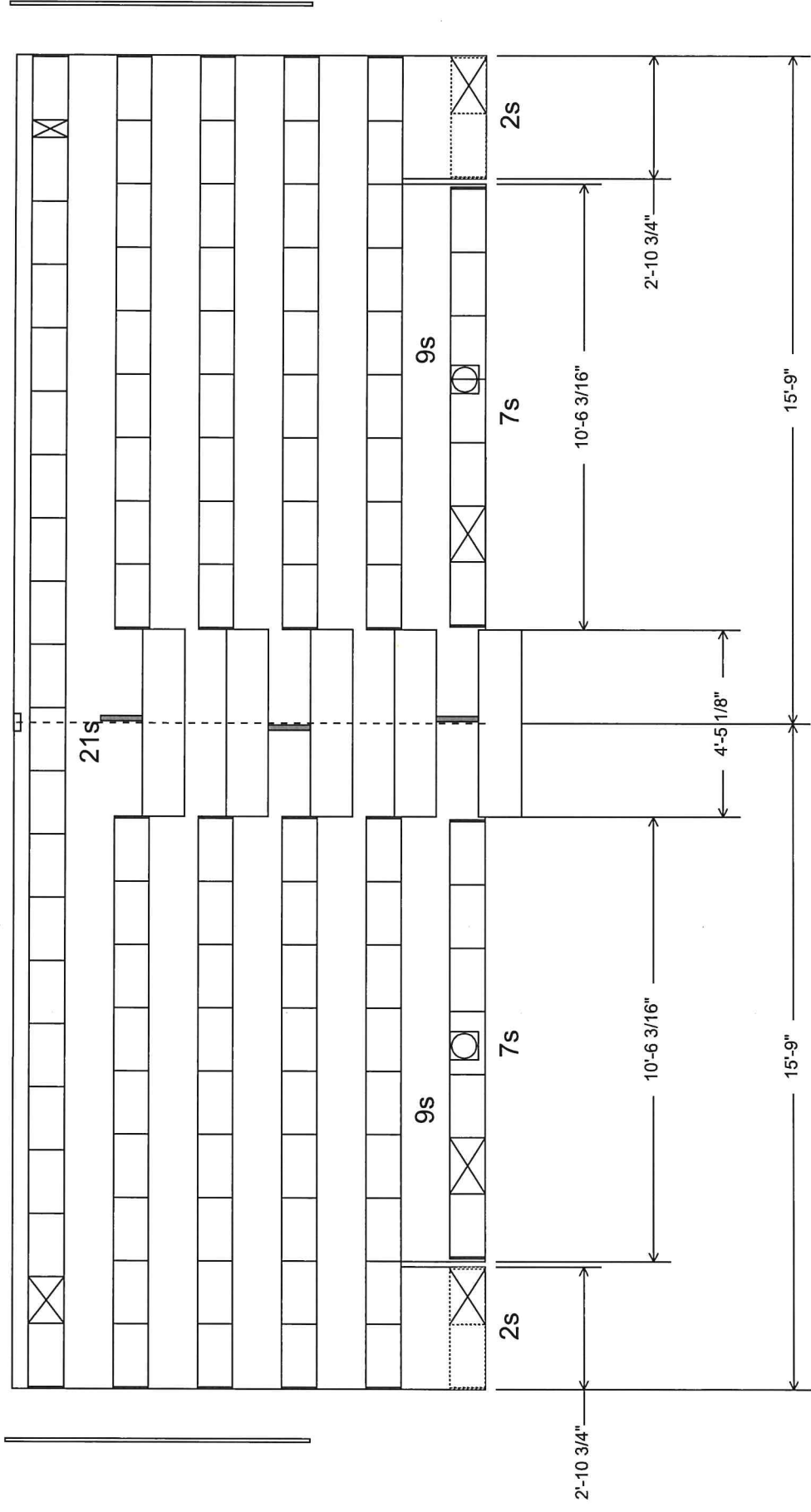


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Cramer Middle School
Bank 2 - 31'-6" Friction Power
Building Code: IBC 2015
34'-0" Clear Dimension
6 Row - 24 Span - 10.25 Rise
111 seats (EM10)

- POWER REQUIREMENTS:**
1. Wiring and non-fusible safety switch(es) suitable for the line voltage to be provided by electrical contractor or others with branch circuit protection to each not exceeding 15 amps.
 2. Branch circuit protection devices by others to be accessible when platforms are closed.
 3. Verify electrical information:
Circuit 3 Phase, 208-230 Volts, 60 Hertz.
Each 1/2 Horse Power Motor Draws 2.0-2.2 amps. Full Load.
Motors run simultaneously.
 4. Junction box(es) by electrical contractor to be mounted at locations TBD, 5' AFF.
Typical location shall be at section joints.

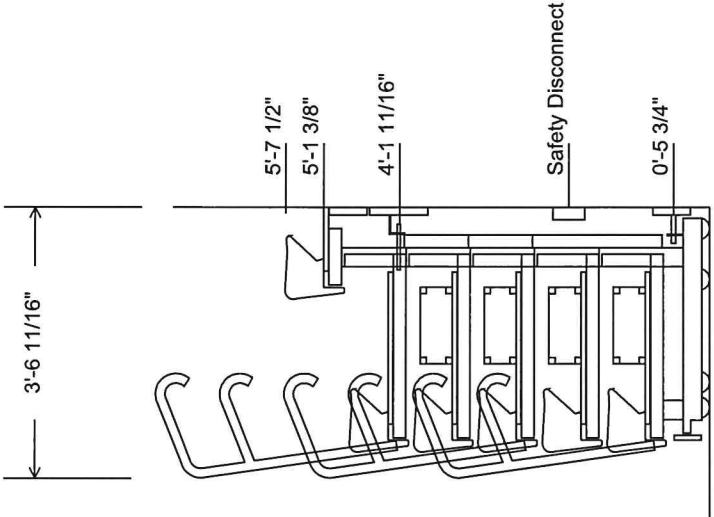
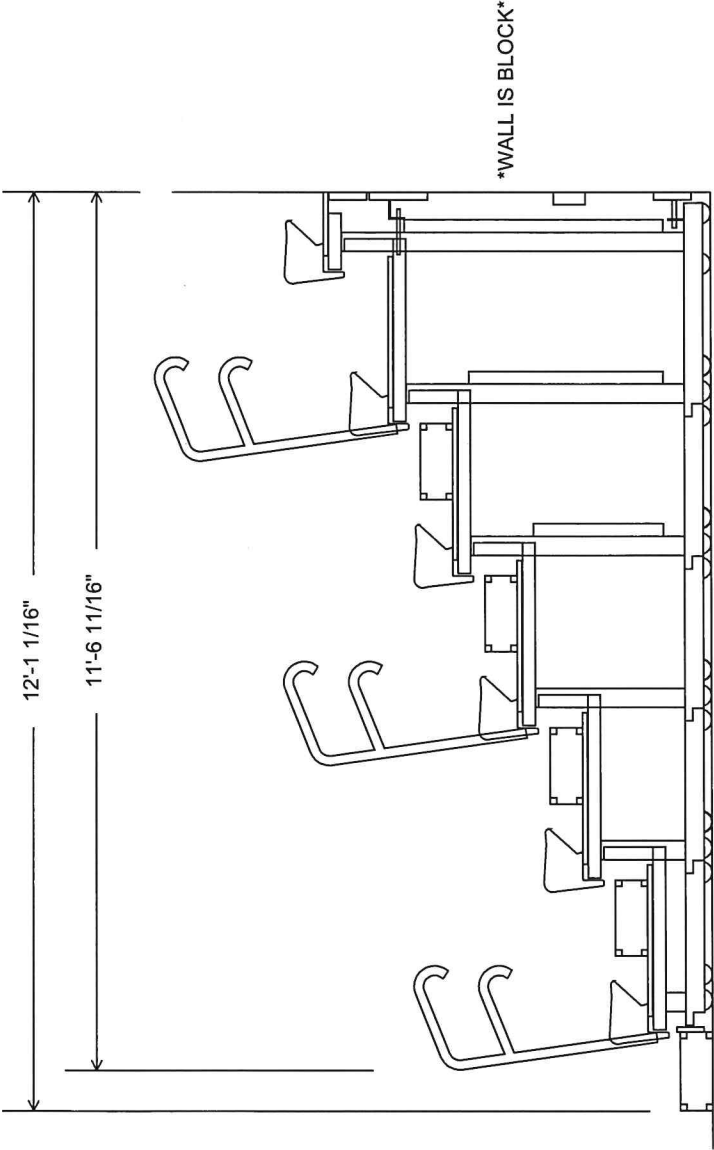


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Cramer Middle School

Bank 2 - 31'-6" Friction Power
Building Code: IBC 2015
6 Row - 24 Span - 10.25 Rise - Wall Attached
111 seats (EM10)
4'-9 13/16" Court To Step Dimension
5'-4 3/16" Court To First Row Dimension



FLOOR IS WOOD FLOATING

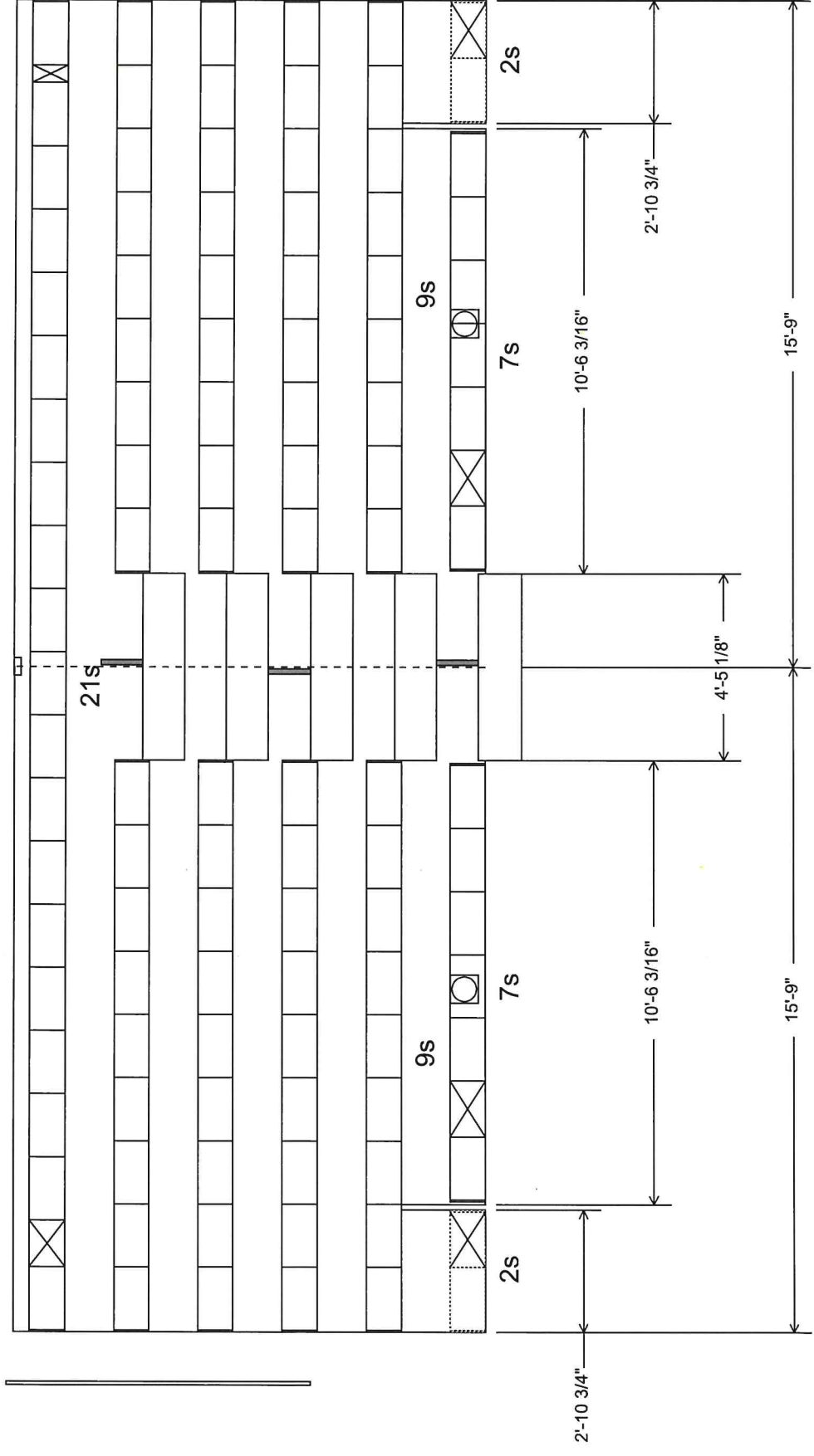
WALL IS BLOCK

Safety Disconnect

Cramer Middle School

Bank 3 - 31'-6" Friction Power
Building Code: IBC 2015
34'-0" Clear Dimension
6 Row - 24 Span - 10.25 Rise
111 seats (EM10)

- POWER REQUIREMENTS:**
1. Wiring and non-fusible safety switch(es) suitable for the line voltage to be provided by electrical contractor or others with branch circuit protection to each not exceeding 15 amps.
 2. Branch circuit protection devices by others to be accessible when platforms are closed.
 3. Verify electrical information:
Circuit 3 Phase, 208-230 Volts, 60 Hertz.
Each 1/2 Horse Power Motor Draws 2.0-2.2 amps, Full Load.
Motors run simultaneously.
 4. Junction box(es) by electrical contractor to be mounted at locations TBD, 5' AFF.
Typical location shall be at section joints.

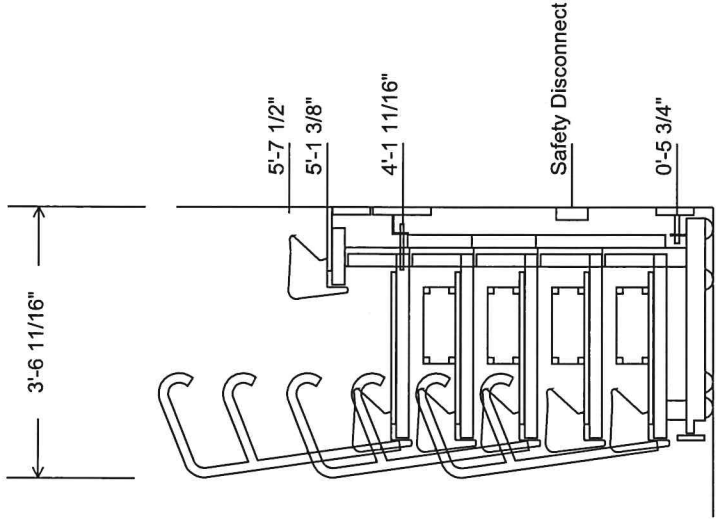
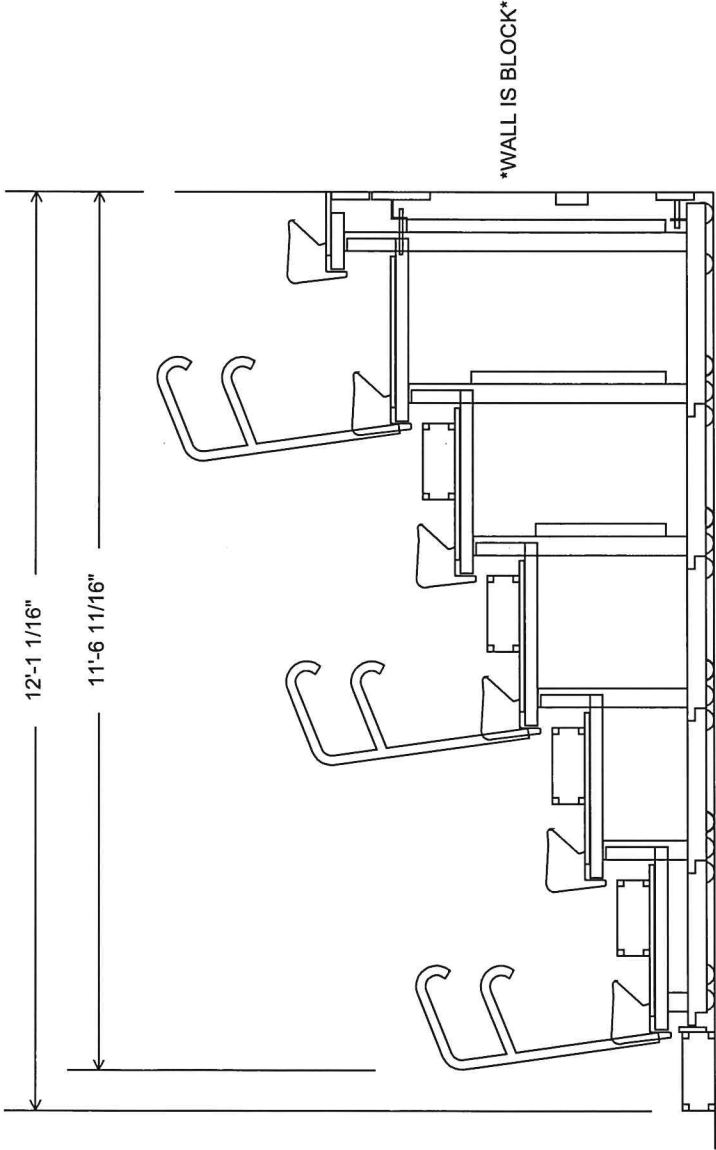


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Cramer Middle School

Bank 3 - 31'-6" Friction Power
Building Code: IBC 2015
6 Row - 24 Span - 10.25 Rise - Wall Attached
111 seats (EM10)
4'-9 13/16" Court To Step Dimension
5'-4 3/16" Court To First Row Dimension



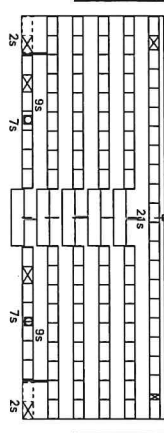
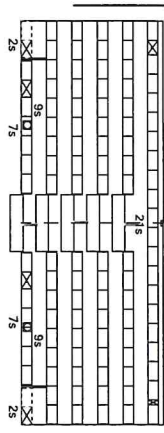
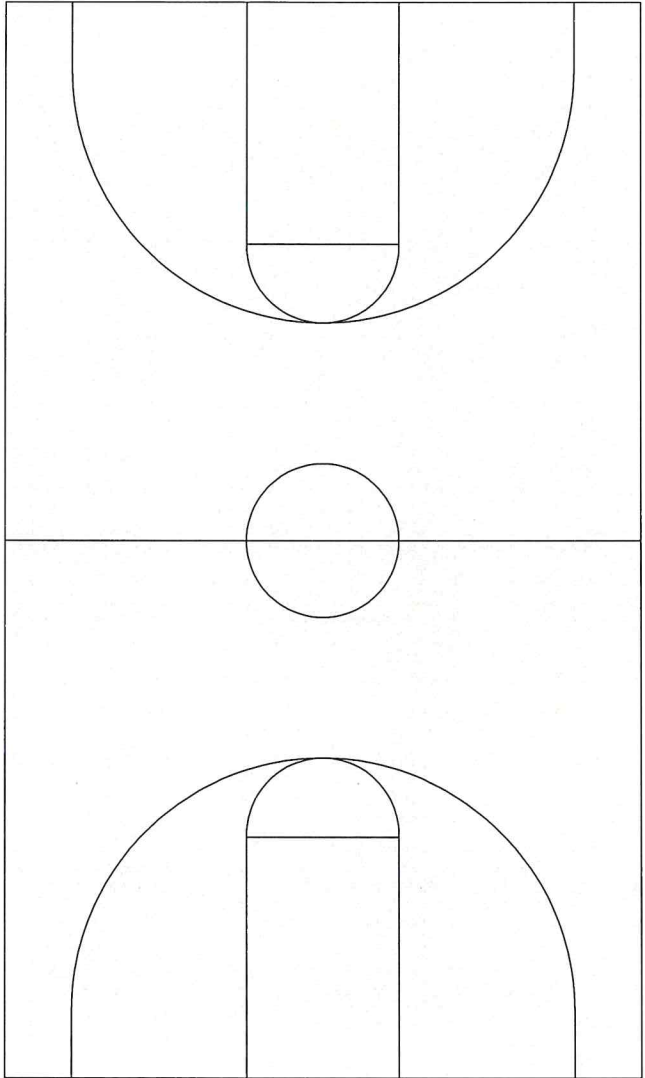
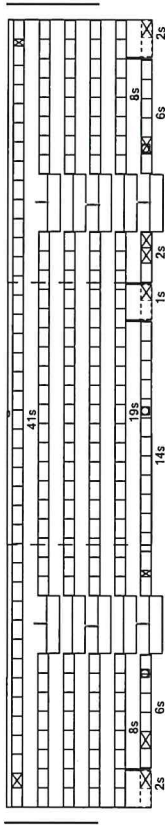
Side Elevation View



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Cramer Middle School
Gymnasium 1
Building Code: IBC 2015



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Garber HS

QTY	DESCRIPTION	SEATS	RISE	SPAN
Bank #1	10 Row Friction Power Free Standing/Floor Attached 78'-0" W/ 10" Excel Seat Module -00 TBE	435	10.25	22
3	10 Row Foot Level Aisles W/ Self-Storing F-Rail			
3	10 Row Intermediate Steps			
6	1 Row Recoverable 3'-0 1/4" Notchout			
2	10 Row Self-Storing End Rails			
1	Vinyl End Curtains LH			
1	Vinyl End Curtains RH			
Bank #2	6 Row Friction Power Wall Attached 78'-0" W/ 10" Excel Seat Module -00 TBE	263	10.25	22
3	6 Row Foot Level Aisles W/ Self-Storing F-Rail			
3	6 Row Intermediate Steps			
4	1 Row Recoverable 3'-0 1/4" Notchout			
2	6 Row Self-Storing End Rails			
2	6 Row End Panel			
Bank #3	8 Row Friction Power Reverse Fold 78'-0" W/ 10" Excel Seat Module -00 TBE	353	11.5	22
3	8 Row Foot Level Aisles W/ Self-Storing F-Rail			
3	8 Row Intermediate Steps			
2	8 Row Self-Storing End Rails			
2	8 Row End Panel			
1	Back Panel			
1	Back Rail (fixed)			
1	42 Wide Aisle Recovery			

NOTES:

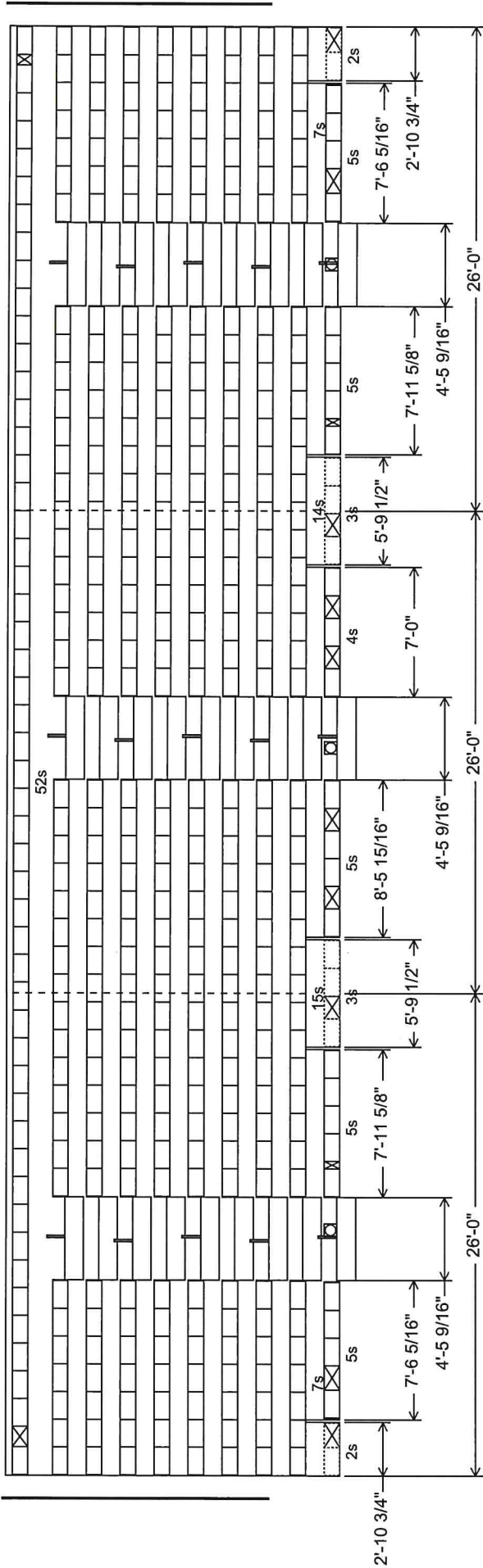
TOTAL SEATS

1051

Garber HS

Bank 1 - 78'-0" Friction Power
 Building Code: NFPA 101 2015
 80'-6" Clear Dimension
 10 Row - 22 Span - 10.25 Rise
 435 seats (EM10)

- POWER REQUIREMENTS:**
1. Wiring and non-fusible safety switch(es) suitable for the line voltage to be provided by electrical contractor or others with branch circuit protection to each not exceeding 15 amps.
 2. Branch circuit protection devices by others to be accessible when platforms are closed.
 3. Verify electrical information:
 Circuit 3 Phase, 208-230 Volts, 60 Hertz.
 Each 1/2 Horse Power Motor Draws 2.0-2.2 amps. Full Load.
 Motors run simultaneously.
 4. Junction box(es) by electrical contractor to be mounted at locations TBD, 5' AFF.
 Typical location shall be at section joints.

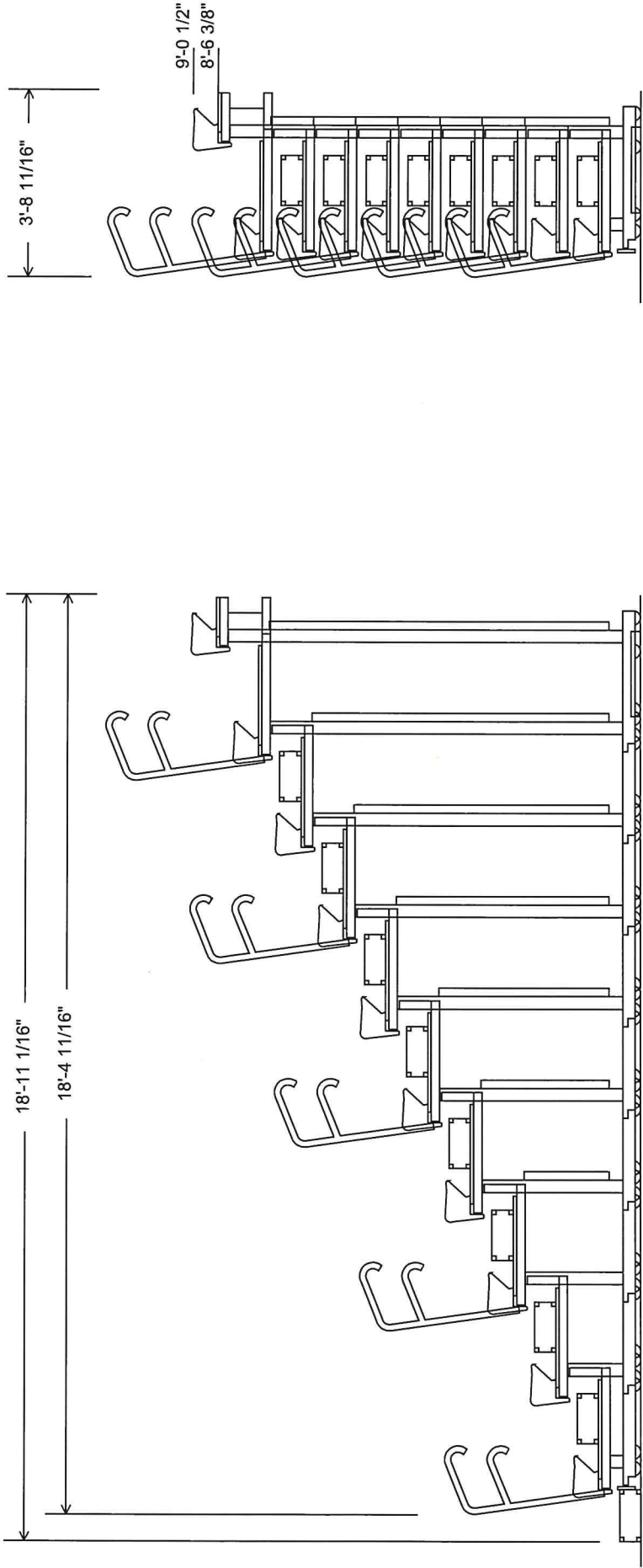


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Garber HS

Bank 1 - 78'-0" Friction Power
 Building Code: NFPA 101 2015
 10 Row - 22 Span - 10.25 Rise - Free Standing/Floor Attached
 435 seats (EM10)
 5'-4 15/16" Court To Step Dimension
 5'-11 5/16" Court To First Row Dimension



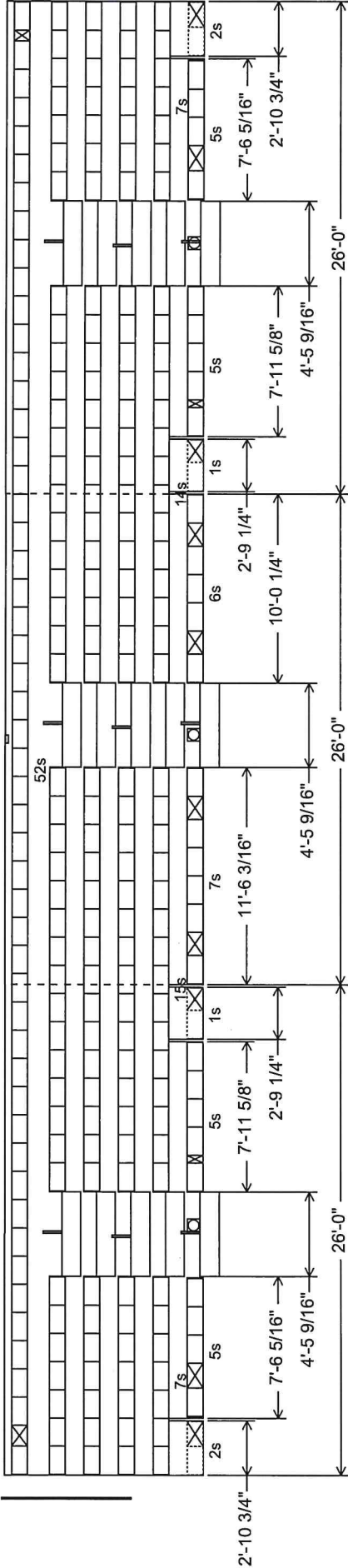
FLOOR IS WOOD FLOATING

Side Elevation View

Garber HS

Bank 2 - 78'-0" Friction Power
 Building Code: NFPA 101 2015
 80'-6" Clear Dimension
 6 Row - 22 Span - 10.25 Rise
 263 seats (EM10)

- POWER REQUIREMENTS:**
1. Wiring and non-fusible safety switch(es) suitable for the line voltage to be provided by electrical contractor or others with branch circuit protection to each not exceeding 15 amps.
 2. Branch circuit protection devices by others to be accessible when platforms are closed.
 3. Verify electrical information:
 Circuit 3 Phase, 208-230 Volts, 60 Hertz.
 Each 1/2 Horse Power Motor Draws 2.0-2.2 amps. Full Load.
 Motors run simultaneously.
 4. Junction box(es) by electrical contractor to be mounted at locations TBD, 5' AFF.
 Typical location shall be at section joints.

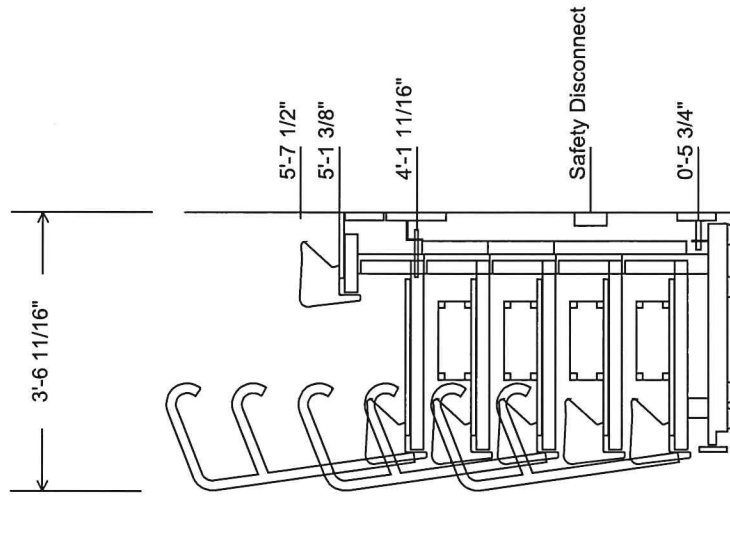
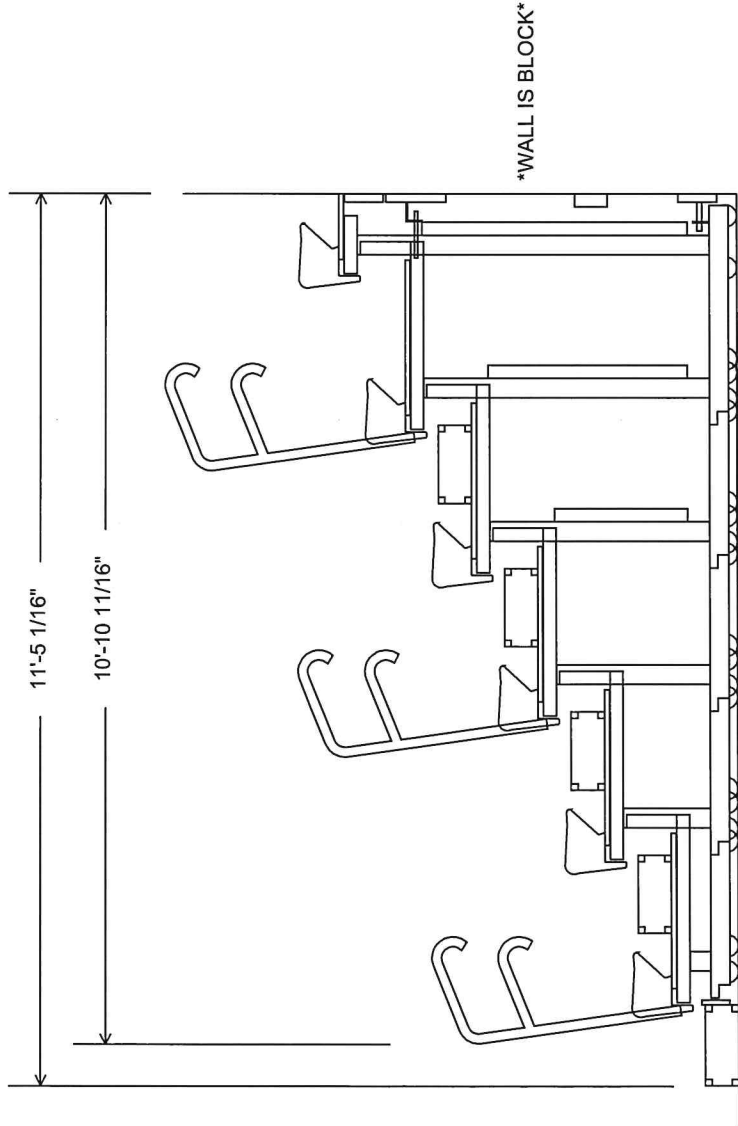


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Garber HS

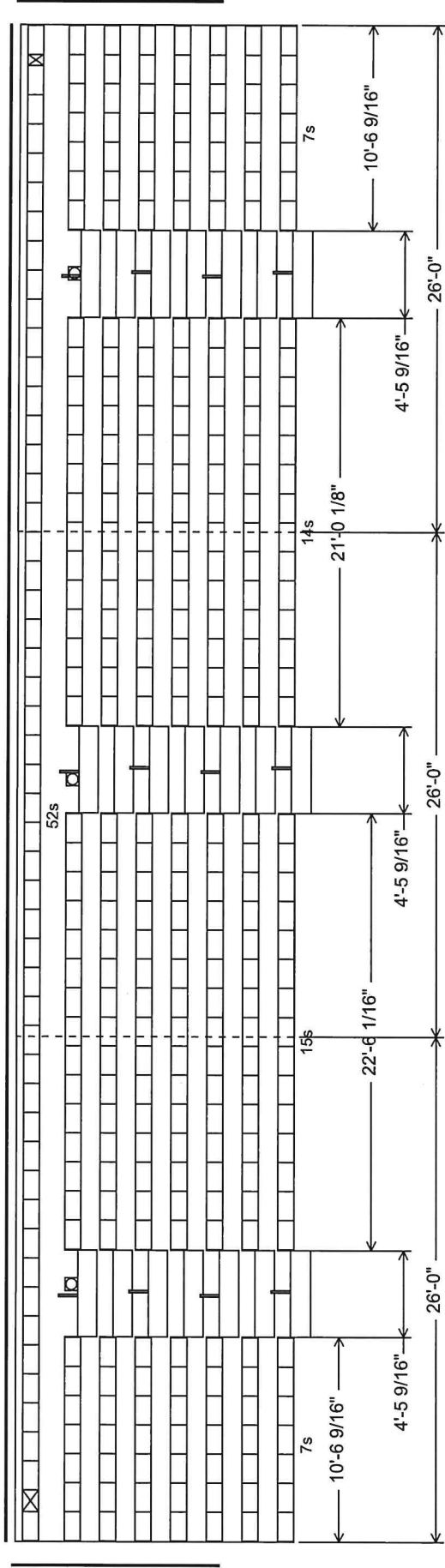
Bank 2 - 78'-0" Friction Power
Building Code: NFPA 101 2015
6 Row - 22 Span - 10.25 Rise - Wall Attached
263 seats (EM10)
2'-10 15/16" Court To Step Dimension
3'-5 5/16" Court To First Row Dimension



Garber HS

Bank 3 - 78'-0" Friction Power
 Building Code: NFPA 101 2015
 80'-6" Clear Dimension
 8 Row - 22 Span - 11.5 Rise
 353 seats (EM10)

- POWER REQUIREMENTS:**
1. Wiring and non-fusible safety switch(es) suitable for the line voltage to be provided by electrical contractor or others with branch circuit protection to each not exceeding 15 amps.
 2. Branch circuit protection devices by others to be accessible when platforms are closed.
 3. Verify electrical information:
 Circuit 3 Phase, 208-230 Volts, 60 Hertz.
 Each 1/2 Horse Power Motor Draws 2.0-2.2 amps. Full Load.
 Motors run simultaneously.
 4. Junction box(es) by electrical contractor to be mounted at locations TBD, 5' AFF.
 Typical location shall be at section joints.

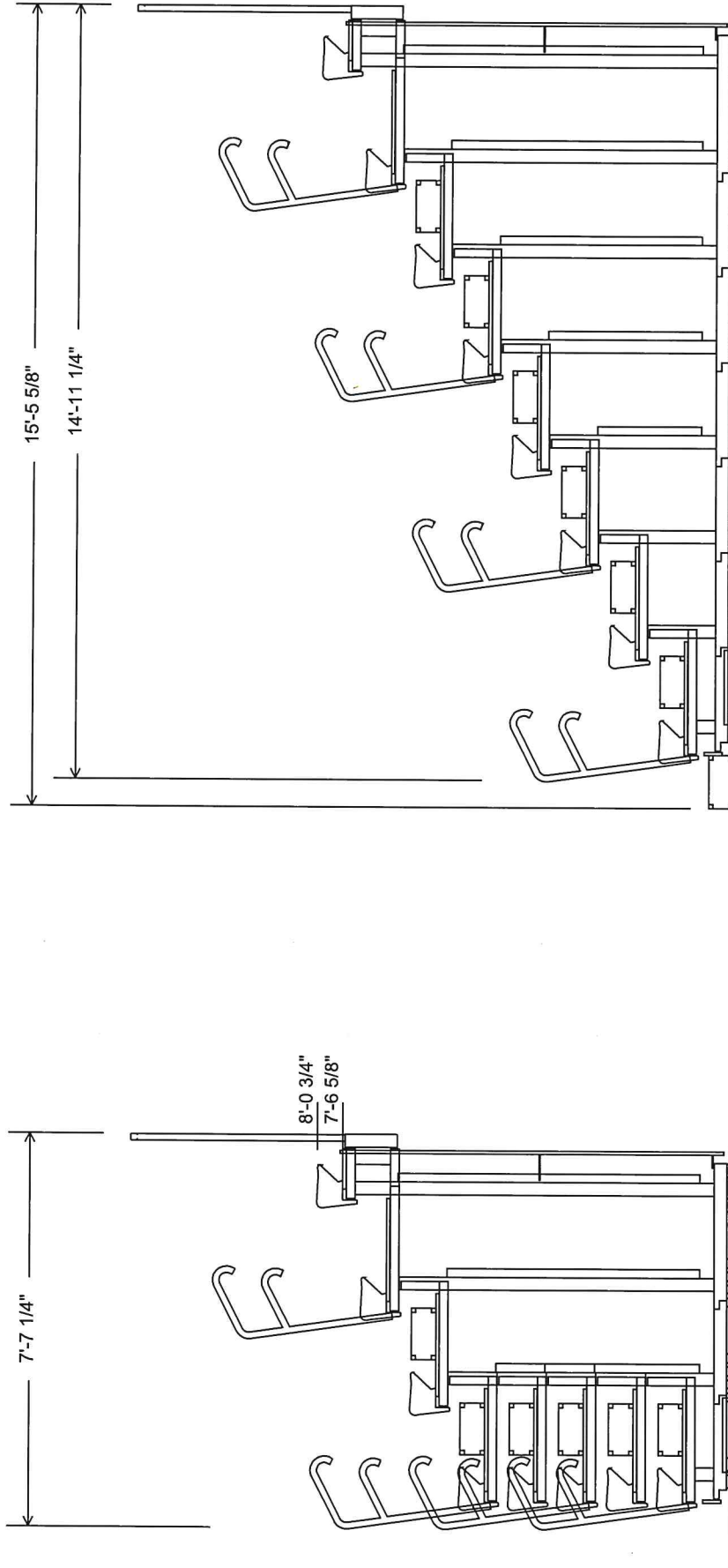


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Garber HS

Bank 3 - 78'-0" Friction Power
 Building Code: NFPA 101 2015
 8 Row - 22 Span - 11.5 Rise - Reverse Fold
 353 seats (EM10)
 26'-4 7/16" Court To Step Dimension
 26'-10 13/16" Court To First Row Dimension



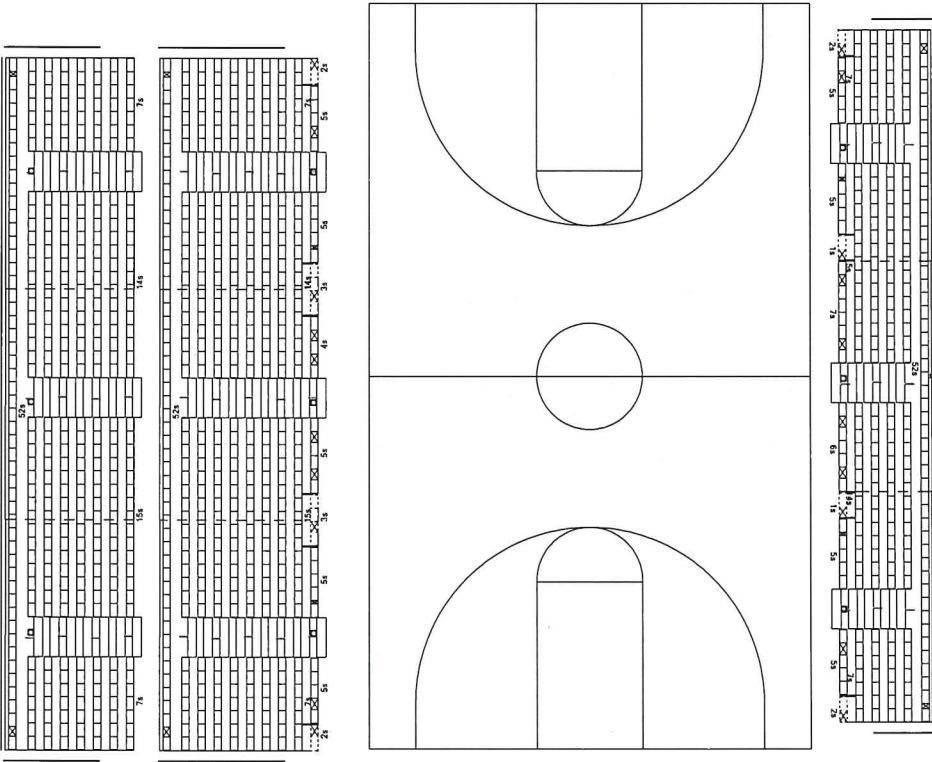
FLOOR IS WOOD FLOATING



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Garber HS
Gymnasium 1
Building Code: NFPA 101 2015



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