

OLYMPIAD & LEGEND CHAIRS

INSTALLATION OPERATION MAINTENANCE MANUAL

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SECTION 1: COMPONENT DRAWING DESCRIPTIONS

- FIG1 Figure 1 is a layout of chair spacing lines found on the job seating plan.
- FIG2A Figure 2A is an exploded view of a typical Floor Mount Cast Iron Olympiad Chair. The hardware called out on this drawing is Outdoor Installation Hardware. Figure 5A & Figure 5B provides a complete listing of standard indoor and outdoor hardware.
- FIG2B Figure 2B is an exploded view of a typical Riser Mount Cast Iron Olympiad Chair. The hardware called out on this drawing is Outdoor Installation Hardware. Figure 5A & Figure 5B provides a complete listing of standard indoor and outdoor hardware.
- FIG2C Figure 2C is an exploded view of a typical Floor Mount Cast Iron Legend Chair. The hardware called out on this drawing is Outdoor Installation Hardware. Figure 5A & Figure 5B provides a complete listing of standard indoor and outdoor hardware.
- FIG2D Figure 2D is an exploded view of a typical Riser Mount Cast Iron Legend Chair. Currently, Floor Mount End Standards are used on Riser Mount installations. The hardware called out on this drawing is Outdoor Installation Hardware. Figure 5A & Figure 5B provides a complete listing of standard indoor and outdoor hardware.

- FIG3A Figure 3A is an exploded view of a typical Floor Mount Steel Olympiad Chair.

 The hardware called out on this drawing is Indoor Installation Hardware. Figure 5A & Figure 5B provides a complete listing of standard indoor and outdoor hardware.
- FIG3B Figure 3B is an exploded view of a typical Riser Mount Steel Olympiad Chair.

 The hardware called out on this drawing is Indoor Installation Hardware. Figure 5A & Figure 5B provides a complete listing of standard indoor and outdoor hardware.
- FIG4 Figure 4 is an exploded view of the installation of a Security Strap. The Security Strap is used only on intermediate, cast iron stanchions only and functions to encapsulate the seat assembly mounting bolt to prevent seat assembly slippage.
- FIG5A Figure 5A & 5B are exploded views of the hardware needed to install the & Olympiad chair. The drawings depict both indoor and outdoor hardware, as well as some hardware that is common to both. Reference the job parts list for
- your specific application.
- FIG6 Figure 6 is a layout of chair spacing, using centerline between aisles. Reference the job drawings, for quantities and sizes.
- FIG7A Figure 7A is a detail of a floor mount hole location template, for cast iron stanchions.
- FIG7B Figure 7B is a detail of a floor mount hole location template, for straight-tube steel stanchions.
- FIG7C Figure 7C is a detail of a floor mount hole location template, for reclined-tube steel stanchions.
- FIG8 Figure 8 is a detail of a riser transfer gage, for curved risers.
- FIG9 Figure 9 is a detail of floor mount anchoring arrangement for cast iron and steel stanchions.
- FIG10 Figure 10 is a detail of riser mount anchoring arrangement, for cast iron and steel stanchions.
- FIG11 Figure 11 is a layout of the perpendicular line and radius method, and the drop chart method, of locating chairs on a radius. Reference the job seating plan, for chair location.
- FIG12 Figure 12 is an exploded view of the hardware needed to install the Olympiad chair to steel risers. Reference the job parts list for specific application.

FIG13A & FIG13B	Figure 13A & 13B indentifies transformers and wiring.
FIG14A	Figure 14A is a layout and exploded view of the hardware needed to install the Offset Plate at construction joints.
FIG15A & FIG15B & FIG15C & FIG15D	Figures 15A, 15B, 15C, and 15D are the floor layout, anchoring, and mounting details for removable skid bases.

SECTION 2: LAYOUT INFORMATION

INTRODUCTION

The accompanying job prints will be used to locate and install the chairs in this building. These prints show the spacing and length of each row. The two (2) lines shown per row are the back of the back (small arc) and the seat mounting slot center line (chair size line). See FIG.1 for more details.

Upon receipt of materials, please utilize the shipping schedule to verify that all listed components are on site. The earlier any descrepancies are detected, the greater the possibility they can be corrected without affecting the installation schedule.

2-1 DETERMINING LOCATIONS FOR ANCHOR DRILLING

2-1-1 Floor Mount Layout:

If installation has pre-defined aisle locations, omit Procedures e, f, g, h.

- a. Locate seating area center line and mark on floor.
- b. Locate and mark first-row chair size line on seating area center line.
- c. Repeat chair size line marking from front to rear at required spacing. If it is a radiused installation, the Row Spacing Dimension will have to be added to the first row radius to calculate the radius for each successive row. This is necessary to maintain concentric arcs with consistent spacing between rows.

NOTE: If last row is defined by a wall or railing or other obstruction, reverse above procedure and work from rear to front.

- d. Mark the chair size line in each direction from the seating center line for each row. (See SECTION 2-1-3 and 2-1-4 for perpendicular line and radius layout procedure).
- e. In the center section, mark the lengths of the first and last rows on the chair size lines.
- f. Connect these two points from front to rear, the resulting line represents one side of the aisle.
 - 1. Assumes row ends align. Review specific application requirements.
- g. Mark the widths of aisles at front and rear and connect these points.
- h. Repeat until all sections and aisles are marked.
- i. Locate and mark standard center lines in each direction from the seating area center line. (See SECTION 2-1-5 for spacing layout information). The end standard center lines will be approximately 2" from the aisle line, depending on accessories. This will be taken up by the width of the armrest (or accessory) after installation. Reference seating plan for details.

<u>NOTE:</u> To produce straight aisles, maintain even row ends.

- j. Repeat for each row until all standards are located.
- k. Make hole locations templates (See FIG7A and FIG7B), place over standard center line and mark hole locations.
- I. Check for proper chair placement and hole layout before drilling.
- m. Drill holes see SECTION 3 and accompanying job prints for anchor information.
- n. Clean holes and set anchors per manufacturer's specifications.

2-1-2 Riser Mount Layout:

If installation has aisle steps, begin at Procedure g. If installation has no aisle steps, proceed as follows:

- a. Locate seating area center line and mark on floor.
- b. Mark the chair size line on the floor parallel to riser face in each direction from the seating center line for each row. Refer to job plans for the chair size line to riser face dimension.

- c. In the center section, mark the lengths of the first and last rows on the chair size lines.
- d. Connect these points from front to rear, this locates one side of the aisle.
 - 1. Assumes row ends align. Review specific application requirements.
- e. Mark the widths of aisles at front and rear and connect these points.
- f. Repeat until all sections and aisles are marked.
- g. Locate and mark standard center lines in each direction from the seating area center line. (See SECTION 2-1-5 for spacing layout information). The end standard center lines will be approximately 2" from the aisle line, depending on accessories. This will be taken up by the width of the armrest (or accessory) after installation. Reference seating plan for details.

<u>NOTE:</u> To produce straight aisles, maintain even row ends.

- h. Repeat for each row until all standards are located.
- i. Make transfer gauge (See FIG8), place over floor center line and transfer standard center line mark to riser face.
- NOTE: On straight rows, the transferred width will be the same, on concave curves and spanned angles, the distance will be larger and on convex curves, the distance will be smaller.
- NOTE: On straight rows with no spanned angles, mark standard center lines directly on riser face. On straight rows with spanned angles, standard center line marks can be transferred with a carpenter's square.
 - j. Mark hole locations on riser face as shown on job plans.
 - k. Check for proper chair placement and hole layout before drilling.
 - Drill holes see SECTION 3 and accompanying job prints for anchor information.
 - m. Clean holes and set anchors per manufacturer's specifications.

<u>2-1-3 Perpendicular Line Layout for Straight Row Chairs:</u> (See FIGURE 11)

a. Start at the first row chair size line mark on seating area center line and strike a 4'- 0" arc on the floor at approximately right angles on both sides.

- b. Measure 3'-0" back from first radius point and mark new radius point.
- c. Strike a 5'-0" arc from the new center point, intersecting previously marked 4'-0" arc.
- d. Mark a straight line through row mark and intersecting arc marks to form a line perpendicular to seating area center line.
- e. If longer arcs for greater accuracy are desired, multiply each of the above figures by the same number and substitute.

REF.: 3'-0", 4'-0", 5'-0" multiplied by 3 would give 9'-0", 12'-0", and 15'-0".

2-1-4 Radius Line Layout for Curved Row Chairs: (See FIGURE 11)

- f. Mark at 1'-0" intervals along straight perpendicular line created by steps a through e.
- g. At the above intervals, measure down at right angles the required distance as shown on drop chart and mark.
- h. Bend a flexible board or metal strip to touch each of the drop points and mark resulting arc.
- i. Drop chart radii are in increments of 1'-0". Reference drop chart, provided under separate cover. If other radii are required, measure appropriate distance either side and strike new arc.

2-1-5 Chair Spacing Layout Procedure: (See FIG 6 for example)

TWO CONDITIONS AFFECT THE PLACEMENT OF CHAIRS BETWEEN AISLES.

- a. There is an even quantity of chairs in the row.
- b. There is an odd quantity of chairs in the row.

There are three rules for Condition a.

- 1. All chairs are the same size = Position standard center line on row center line.
- 2. Two sizes of chairs of even quantity each = Position standard center line on row center line.
- 3. Two sizes of chairs of odd quantity each = Position standard center line 1/2" from center line of row towards

the side where largest quantity of small chairs are located.

There are two rules for Condition b.

- 1. All chairs are the same size = Chair straddles center line of row.
- 2. Two sizes of chairs with an odd and even quantity = Chair with odd quantity straddles center line of row.

SECTION 3: ANCHORING

3-1 RISER MOUNT STANCHION ATTACHMENT TO CONCRETE RISER

3-1-1 Required Hardware:

Cast Iron Stanchions - See FIG2B & FIG2D Steel Stanchions - See FIG 3B

3-1-2 Required Concrete Specifications:

- a. Minimum concrete compressive strength:
 - Normal weight stone aggregate 3000 PSI
 - Light weight aggregate 5000 PSI
- b. Minimum concrete thickness (riser section):
 - 4 1/2" min. thickness with the first 3", along the face, clear of any obstructions (meshing, reinforcing bar, etc.).

3-1-3 Anchor Installation Instructions:

- a. Drill 7/16" diameter hole using masonry drill which meets ANSI B94.12-1977 to a full depth of 3". See Figure 10.
- b. Clean hole to remove concrete particles and dust by blowing the hole using compressed air, then brushing the hole using a wire brush, then blowing the hole a second time using compressed air. PROPER BRUSHING AND BLOWING OF THE HOLES IS CRITICAL TO PERFORMANCE OF THE ANCHORS.
- c. Dispense adhesive into hole per manufacturers instructions and Hussey Seating Company's Adhesive Anchor Installation Procedure.
- d. Insert the threaded rods into the holes to proper embedment depth using a twisting motion to eliminate air pockets and coat entire rod.
- e. Allow adhesive to cure 24 hours before installing chairs.

- f. Install stanchions. Add heavy stanchion washer, lock washer and nut onto anchor.
- g. After the chair is assembled (see Section 4 for Chair Assembly Procedure), tighten nuts to a torque of 13-18 ft-lbs. Excessive torque on the bolts will cause bond failure of the adhesive. (Impact wrenches can be used to install and tighten nuts, but care must be taken not to over-torque the nuts.)

3-2 FLOOR MOUNT STANCHION ATTACHMENT TO CONCRETE FLOORS

3-2-1 Required Hardware:

Cast Iron Stanchions - See FIG2A & FIG 2C Steel Stanchions - See FIG 3A

3-2-2 Required Concrete specifications:

- a. Minimum concrete compressive strength:
 - Normal weight stone aggregate 3000 PSI
 - Light weight aggregate 5000 PSI
- b. Minimum concrete thickness (tread section):
 - 4" min. thickness with the top 2" clear of any obstructions (meshing, reinforcing bar, etc.).

3-2-3 Anchor Installation Instructions:

- a. Drill 1/4" diameter hole using masonry drill which meets ANSI B94.12-1977 to a minimum depth of 2". See Figure 9
- b. Blow the hole clean using compressed air.
- c. Drive anchor into hole using the Hussey setting tool part # 2086735. The tool sets the embedment depth to 2" and leaves 1 ¼" of the anchor exposed.
- d. Install the stanchions (see Section 4 for Chair Assembly Procedure) and set the anchors after chair is assembled by tightening to an installation torque of 8 ft-lbs. IT IS CRITICAL TO THE PERFORMANCE OF THE FLOOR MOUNT ANCHOR TO APPLY THE APPROPRIATE INSTALLATION TORQUE.
- e. After the chair is assembled and the anchors are set, snap the top of the anchor off, if necessary, by working the top back and forth with the setting tool until it snaps.

3-3 CAST IRON OR STEEL FLOOR STANCHION ATTACHMENT TO WOOD FLOOR

3-3-1 Required Hardware (Indoor only):

a. Anchor: 1/4" x 1 1/2" lag screw Hussey part #: 1005002

b. Washer: 1/4" I.D. x 5/8" O.D. flat type A, stainless steel Hussey part #: 1032778

3-3-2 Required Wood Specifications:

a. Floor thickness must be 1 1/2" minimum.

3-3-3 Anchor Installation Instructions:

- a. Lay out the steel riser and mark all fastener locations (See Section 2).
- b. Drill 3/16" diameter anchoring holes to a 1 1/4" minimum depth.
- c. Align stanchion with the drilled anchor holes.
- d. Place the washer onto the lag screw. Insert the lag screw through the stanchion foot and into the drilled anchor hole. Secure stanchion with lag screws at four (4) places.

3-4 CAST IRON OR STEEL STANCHION ATTACHMENT TO STEEL FLOOR

3-4-1 Required Hardware:

- a. Anchor: 1/4" 20 x 1 1/4" Taptite hex head self threading bolts Hussey part # Not Yet Assigned (zinc plated, for indoor). Hussey part # 1026090 (JS500, for outdoor).
- b. Washer: 1/4" I.D. x 5/8" O.D. flat type A, stainless steel Hussey part #: 1032778
- c. Lock Washer: 1/4" split lock washer.

Hussey part #: 1042330 (zinc plated, for indoor). Hussey part #: 1005235 (stainless steel, for outdoor).

3-4-2 Required Steel Specifications:

- a. Steel floor thickness to be 1/4" minimum to 3/8" maximum.
- b. Steel riser grade to be A36 or higher.

3-4-3 Anchor Installation Instructions:

- a. Lay out the steel floor and mark all fastener locations (See Section 2).
- b. Center punch fastener locations and pilot drill holes using a 3/16" diameter drill bit.
- c. Finish-drill holes for the Taptite fasteners to recommended hole diameter of 0.228" (drill size #1).
- d. Assemble flat washer and lock washer onto Taptite fasteners. Position stanchions on the steel floor with attachment slots/holes in alignment with drilled holes in floor. Using ratchet or impact driver, insert lead threads of Taptite bolt into drilled hole. Hold constant pressure on fastener and tighten. After chair assembly is complete, tighten fastener to the specified torque of 10-12 ft-lbs torque.

3-5 CAST IRON OR STEEL STANCHION ATTACHMENT TO STEEL RISER.

3-5-1 Required Hardware:

- a. Anchor: 3/8" 16 x 1 1/2" Taptite Hex head self threading bolts Hussey part #: 1003089 (zinc plated, for indoor). Hussey part #: 1040645 (JS500, for outdoor).
- c. Washer: 13/32" I.D. x 1 1/8" O.D. x 0.16 thick, flat, galvanized. Hussey part #: 1033680.
- b. Lock Washer: 1 1/8" O.D. split lock washer, zinc plated.
 Hussey part #: 1000781 (zinc plated, for indoor).
 Hussey part #: 1016920 (stainless steel, for outdoor)

3-5-2 Required Steel Specifications:

- a. Steel riser thickness to be 1/4" minimum to 3/8" maximum.
- b. Steel riser grade to be A36 or higher.

3-5-3 Anchor Installation Instructions:

- a. Lay out the steel riser and mark all fastener locations (See Section 2).
- b. Center punch fastener locations and pilot drill holes using a 3/16" dia. drill bit.
- c. Finish-drill holes for the Taptite fasteners to recommended hole diameter of 11/32" (0.344).
- b. Assemble flats washer and lock washers onto Taptite fasteners. Position stanchions against steel riser with attachment slots/holes in alignment with drilled holes in riser. Using ratchet or impact driver, insert lead threads of Taptite bolt into drilled hole. Hold constant pressure on fastener and tighten. After chair assembly is complete, tighten fastener to the specified torque of 35-40 ft-lbs.

3-6 ANCHOR TESTING

3-6-1 Anchor Procedure and Frequency:

Hussey Seating Company recommends that installers test at least 2% of the anchors installed in a random manner to verify that required anchor loads are met. Refer to the Hussey Seating Company Anchor Test Manual for the recommended test procedure and specified anchor load requirements.

3-7 ANCHOR INSTALLATION ASSISTANCE

3-7-1 Anchor Product & Installation Procedure Inquiries:

Questions regarding standard anchor products can be directed to either the anchor manufacturer, ITW Ramset / Redhead Inc, at 1-800-899-7890, or to Hussey Seating Company at 1-800-341-0401.

3-7-2 ETO Anchor Product Offerings:

Engineered-to-order anchor product options are available from Hussey Seating Co. in cases where standard anchors do not meet the project requirements or when an alternative anchor provides benefits without a reduction in ultimate anchor loads. Contact Hussey Seating Company at 1-800-341-0401 to review ETO options.

SECTION 4: CHAIR ASSEMBLY

4-1 ASSEMBLY OF FLOOR MOUNT AND RISER MOUNT CHAIRS

4-1-1 Assembly of Floor Mount Chairs:

- a. Place standards over anchor bolts and attach loosely with nuts and washers.
- b. Attach backs loosely to standard with 1/4" bolts and flange nuts.
- c. Attach seats loosely to standards with 5/16" cap screws and flange nuts.
- d. Align all parts in each row and securely tighten hardware. Recommended back bolt torque is 20-25 <u>inch</u>-lbs (approximately 2 ft-lbs). Recommended seat bolt torque is 13-18 ft-lbs.

NOTE: If adequate care is taken, parts can be securely tightened as they are positioned in place.

<u>CAUTION</u>: Tighten back bolts sufficient to deform plastic under head approximately 1/16". When open faced nuts are used, do not allow end of screw to project more than 1/8". <u>DO NOT OVER TIGHTEN.</u>

- e. Check seat spring lift action and if sluggish loosen seat mounting hardware and adjust hinge bracket (see FIG4) to eliminate binding.
- f. Remove excess anchor bolt protrusion.
- g. Attach seat number and row letter plates.
- h. Touch up paint and clean as required.

4-1-2 Assembly of Riser Mount Chairs:

- a. Position standards over anchor studs and finger tighten nuts.
- b. Attach backs loosely to standards with 1/4" step bolts and flange nuts.
- c. Attach seats loosely to standards with 5/16" cap screws and flange nuts.
- d. Align all parts in each row and securely tighten hardware. Recommended back bolt torque is 20-25 <u>inch</u>-lbs (approximately 2 ft-lbs). Recommended seat bolt torque is 13-18 ft-lbs.

<u>NOTE</u>: If adequate care is taken, parts can be securely tightened as they are positioned in place.

<u>CAUTION</u>: Tighten back bolts sufficient to deform plastic under head approximately 1/16". When open faced nuts are used, do not allow end of screw to project more than 1/32". <u>DO NOT OVER TIGHTEN.</u>

- e. Check seat spring lift action and if sluggish loosen seat mounting hardware and adjust hinge bracket (see FIG4) to eliminate binding.
- f. Attach seat number and row letter plates.
- g. Touch up paint and clean as required.

SECTION 5: CHAIR MAINTENANCE

5-1 INSPECTING AND MAINTAINING INSTALLED CHAIRS

5-1-1 Safety Inspection:

- a. Since it is possible that chair parts may loosen with time and usage, Hussey Seating Co. recommends that the following components be checked every six months:
 - 1. Wing bolts (connection between chair back and Stanchion).
 - 2. Seat mounting bolts (connection between seat and Stanchion).
 - 3. Floor anchors (connection between Stanchion and floor).

NOTE: All replacement hardware should be equal (in size and quality) to original hardware. Hussey Seating company will not be held liable for use of improper hardware. Please contact the factory for additional information or conditions not covered by this manual.

5-1-2 Inspection Methods:

- a. The easiest and quickest method of inspection for loose connections is achieved as follows:
 - Chair Backs: Try to move chair back from side to side and front to back. Note any loose connections and tighten accordingly.
 - 2. Seats: Actuate seat up and down and also try to move from side to side. Note any loose connections and tighten accordingly.

3. Stanchions: Grasp the chair armrest and try to move from side to side. Note any loose connections and tighten accordingly.

5-1-3 Plastic:

 a. Polyethylene shells can be cleaned with commercially available cleaning compounds specifically made for use on polyethylene.
 Hussey Seating Co. uses "Oakite Speedet" with 50% water added.

5-1-4 Fabric:

- Clean 100% nylon fabrics with standard upholstery/fabric cleaners specified for use on nylon fabrics. Follow cleaner manufacturer's recommended procedures.
- b. Hussey Seating Co. uses "Texize K2R Spot Remover." Use per manufacturer's directions in a hidden area to determine effects for your type of fabric.

5-1-5 Lubrication:

a. All chairs, tablet arms, etc., have been pre-lubricated at the factory and should not require any further lubrications for the life expectancy of the product.

5-1-6 Powder Coat:

- a. Touch up original manufacturer's finish coating with an approved touch up paint in accordance with Hussey Seating Company's Powder Coat Touch-Up Procedure whenever damage has occurred during shipment or installation. Color to match the original manufacturer's color.
- b. Refer to job plans for possible special finish.

5-1-7 Building Code:

Facility owners are responsible for insuring the seating system conforms to applicable building codes, including the American's with Disabilities Act (A.D.A.). Alteration of a seating system must be done in compliance with code. The local governing code official will provide official interpretation to ensure compliance. Hussey Seating Company can provide assistance by providing code interpretation, but it is the local code official that will address local codes, as well as national codes.

5-1-8 Cleaning Procedure:

Specified Cleaning Procedure: All cast-iron and plastic components should be cleaned within a maximum of one (1) month from the facilities latest use. Components that are

not cleaned one month from use may stain permanently. Cast-iron and plastic components should be cleaned with BULK SOL NO. 31 mixed at a three (3) percent concentration with water. The cleaning solution temperature must be between 100°-125° F. High pressure washers may be used to clean these components, but the nozzle pressure must not exceed 1200 PSI2. The nozzle of the washer must not be placed closer than five (5) feet from the component. After cleaning with BULK SOL NO. 3, the components must be rinsed with tap water at ambient temperature. The rinse process must not exceed 1200 PSI and be applied no closer than five (5) feet from the components.

SECTION 6: ACCESSORIES

6-1 TABLET ARMS

6-1-1 Installation:

a. To provide clearance for folding of the tablet arm, the seat is reduced one size less than the stated chair size (i.e. a 21" Olympiad chair with tablet arm uses 20" seat plastic.)

6-2 AISLE LIGHTS & TRANSFORMER

6-2-1 Aisle Light Installation:

- Unless otherwise specified, aisle lights modules are shipped from the factory assembled and attached to the end stanchion, complete and ready for final connection, by approved on-site electrician.
- b. Reference seating plans, included with the job drawings, for the aisle light locations. Layout and attach the stanchion assembly per standard installation procedures.

6-2-2 Transformer Installation (see FIG.13A & FIG.13B)

a. A transformer is required, for twenty-four volt (24V) aisle light systems. The transformer, provided by Hussey Seating Company, is wired between the facility electrical line and the aisle light system, by the electrician.

6-3 OFFSET PLATE

6-3-1 Offset Plate Installation:

¹ **BULK SOL NO. 3** is a product of Bulk Chemicals incorporated.

² Pressures exceeding 1200 PSI may remove the coatings from the component.

- The offset plate is used to attach riser mount stanchions at construction joints. Attach the offset plate to the stanchion before mounting the stanchion. See FIG.14A.
- b. Mount the offset plate and stanchion assembly to the riser so the stanchion anchor bolts are at the correct location.

6-4 REMOVABLE SKIDS (see FIG15A, FIG15B, FIG15C, FIG15D &)

6-4-1 Installation - Concrete Floor:

- a. Place Skid on floor using chair size line to position.
- b. Mark floor to locate skid mounting holes.
- c. Remove skid and drill anchor holes as specified by FIG 15A.
- d. Clean holes thoroughly and install and set drop-in anchors.
- e. Tip the skid on it's side and install stanchions firmly (5 ft-lbs) to skids using hardware specified in FIG15A.
- f. Secure skid to drop in anchors located in the floor.
- g. Assemble seats and backs onto the stanchions.

6-4-2 Installation - Wood Floor:

- a. Place Skid on floor using chair size line to position.
- b. Mark floor to locate skid mounting holes.
- c. Remove skid and center the floor socket with the nut facing up over the skid mounting hole marks.
- d. Mark the outline of the floor socket and the socket mounting holes.
- e. Rout or bore a recess for the floor socket (see FIG15A for outline and drilling instructions).
- f. Clean holes thoroughly and install the floor socket using supplied hardware.
- g. Tip the skid on it's side and install stanchions firmly (5 ft-lbs) to skids. Use 1/4-20 x 1" phillips flat head machine screws inserted from beneath along with any associated hardware as shown in related FIG's.
- h. Secure skid to floor socket using supplied hardware.

h. Assemble chairs onto skids (See SECTION 4, begin with step b and exclude step f).

6-4-3 Rollaway Skid Units:

When the installation has a requirement for Rollaway Skid Units.

- a. Reference FIG 15E for operation and hardware for the rollaway skid.
- b. Install the stanchions, seats and backs to the rollaway skid using specified hardware.
- c. Locate the rollaway unit next to the adjacent fixed chairs. Mark the floor for attachment.
- d. Install floor attachment hardware.
- e. Roll unit into position and attach to the floor for use.

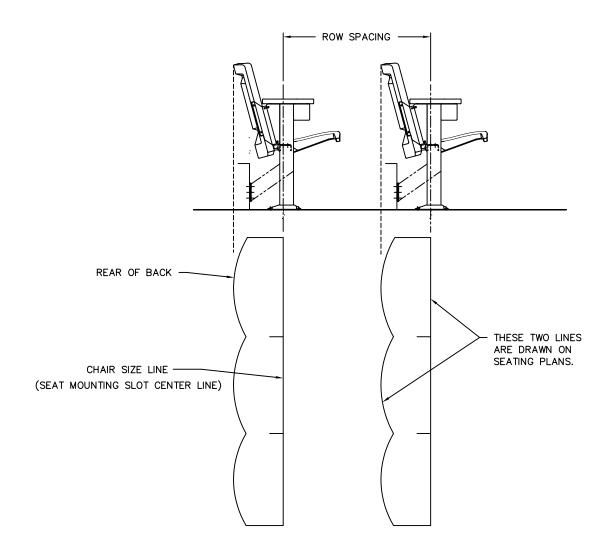
SECTION 7: CUSTOMER ASSISTANCE

7-1 Customer Contact:

For material discrepancies and / or questions regarding installation procedures, please contact:

Customer Service Department Hussey Seating Company 38 Dyer Street Ext. North Berwick, ME 03906 Phone: 1-800-341-0401

Early Detection & Correction of potential problems is our best defense against future weaknesses.



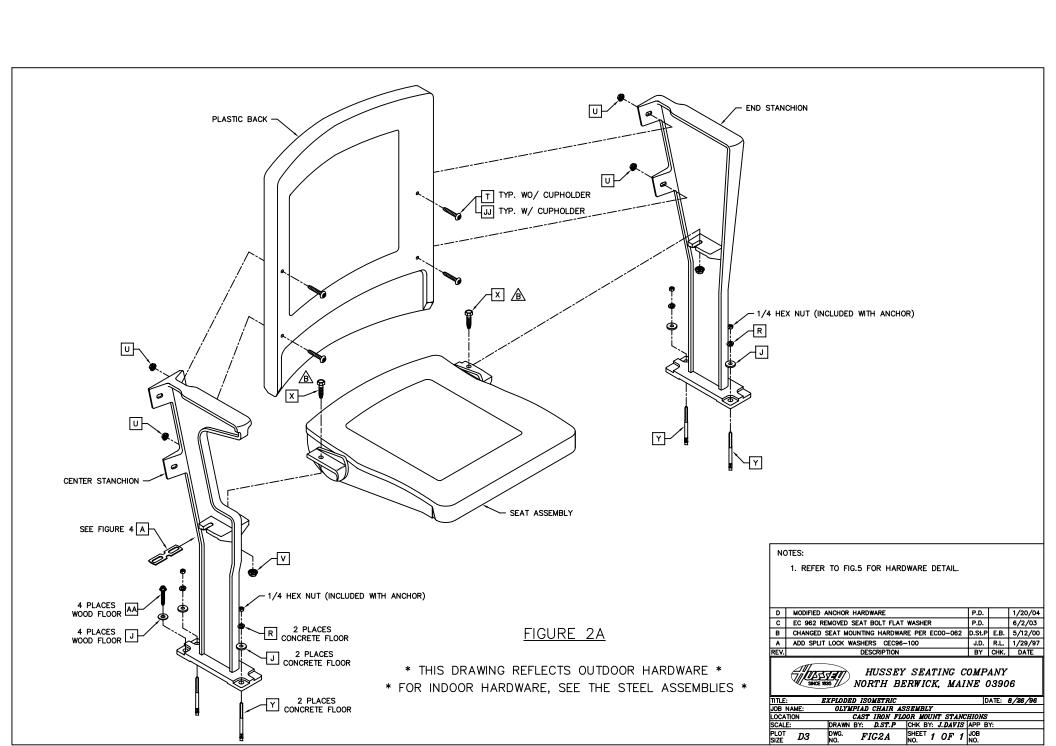
NOTE: ROW SPACING IS MEASURED ON THE CHAIR SIZE LINE

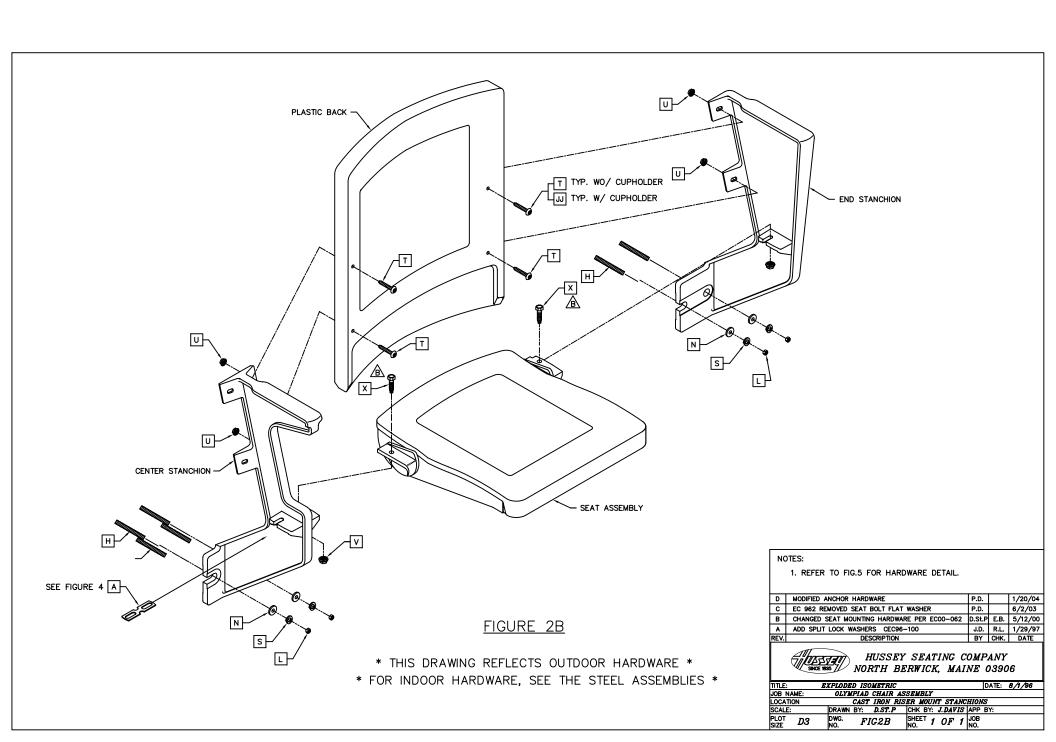
FIGURE 1

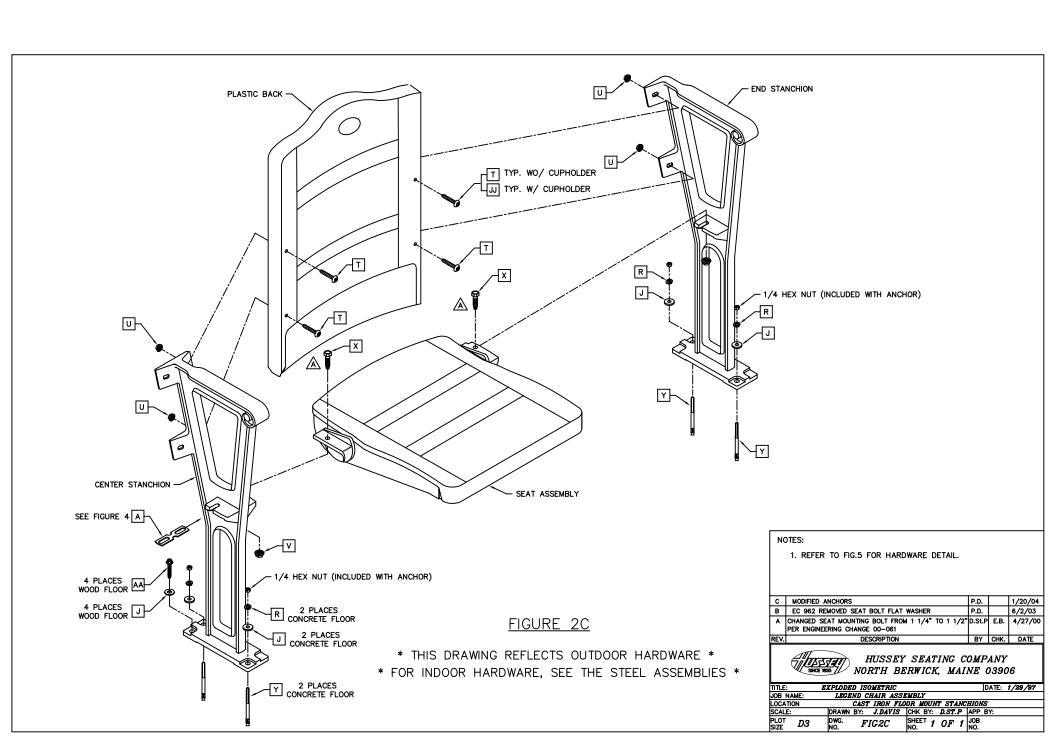
NOTES:					
REV.	DESCRIPTION		BY	CHK.	DATE
		UNLESS DIMENSI	ONAL TO	OLERAN	TED CES
		FRACTIONS	DECIN	MALS XXX	ANGLES
FINISH:		±1/32	±.02		±1°
	HUSSEY S				
					0 /0 / /0/
TITLE: JOB NAME:	CHAIR LAYOUT LINES		jı	JAIE: 8	9/24/90

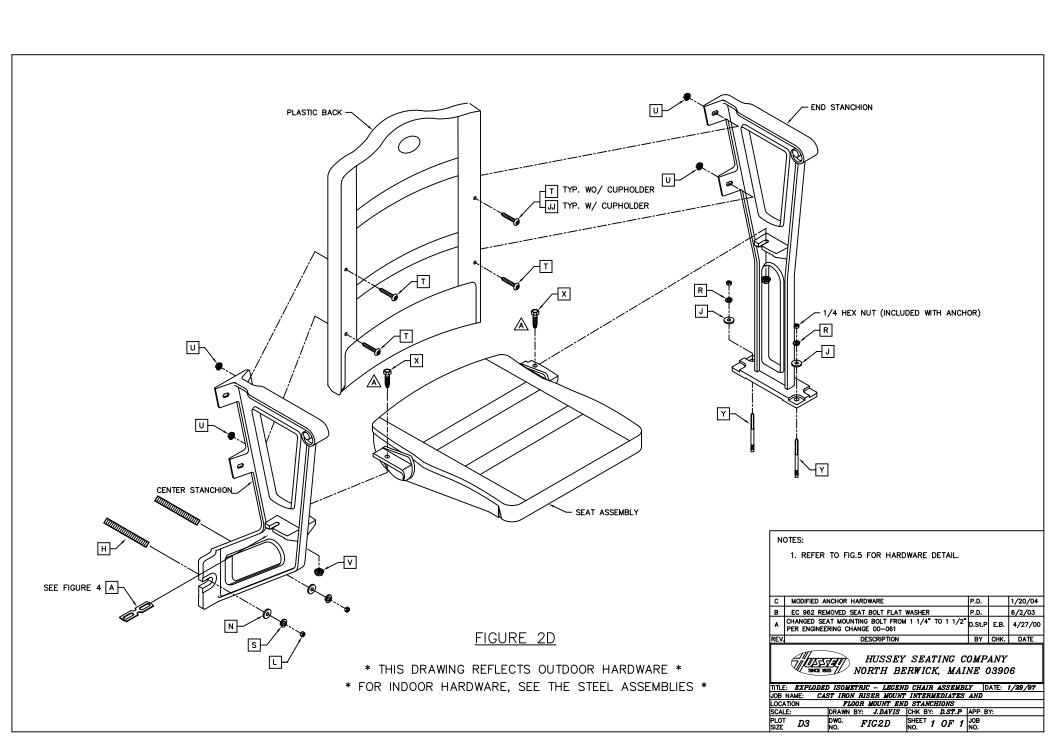
FIG1

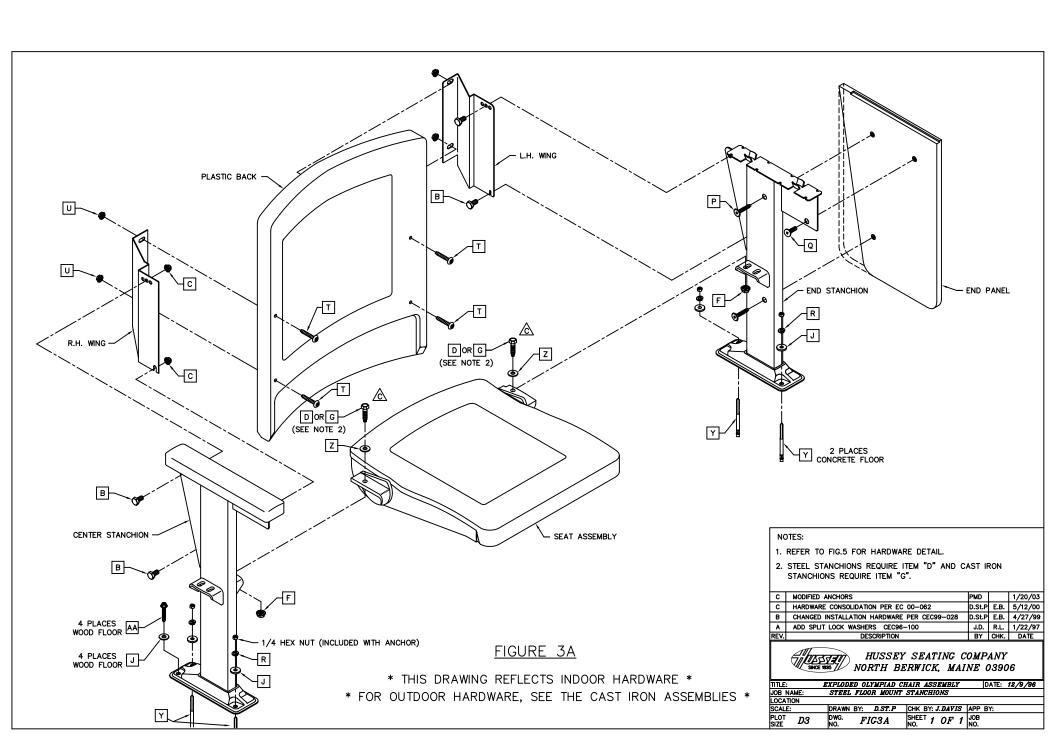
SHEET 1 OF 1 NO.

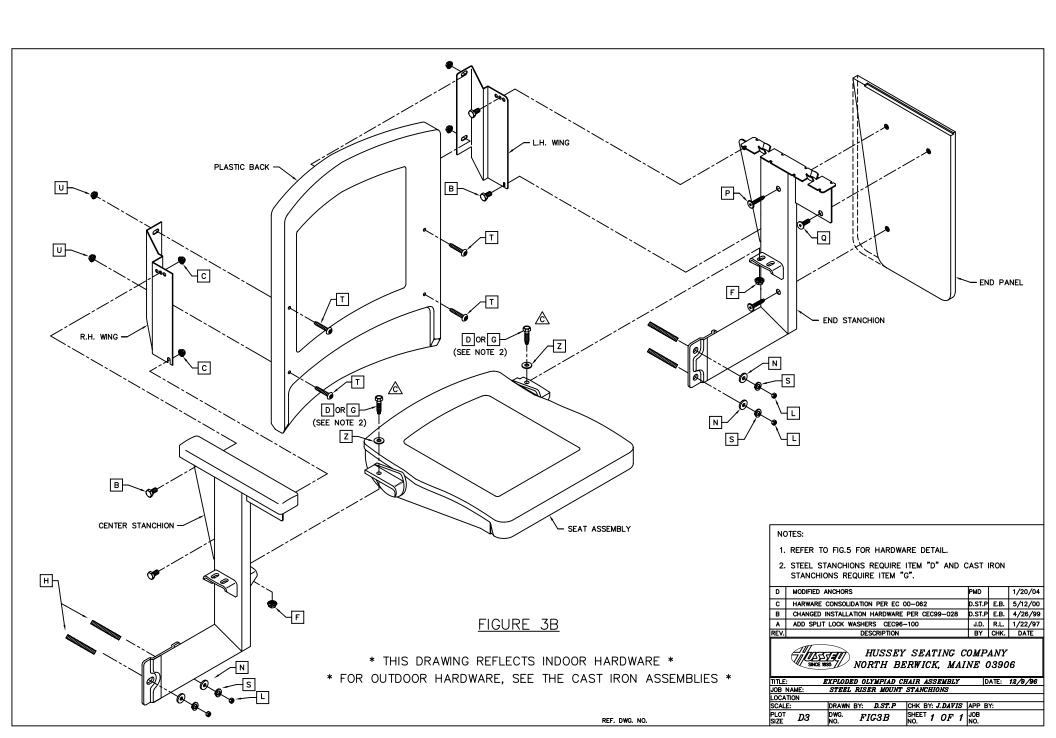


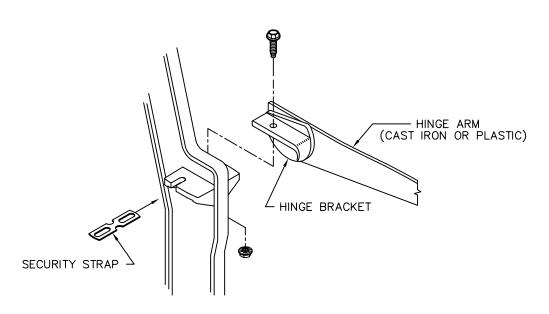


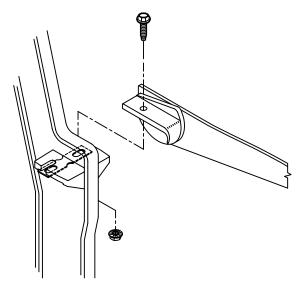












- 1. INSERT SECURITY STRAP THRU SLOT BENEATH LANDING BRACKET
- 2. SECURE USING SEAT ATTACHMENT BOLT AND NUT
- 3. USED ON INTERMEDIATE STANCHIONS ONLY

SHOWN INSTALLED BENEATH LANDING BRACKET

NOTES:							
1	I. REFER TO FIG.5 FOR HARDWARI	E DETAIL.					
l							
l							
				_			
Α	EC 962 REMOVED SEAT BOLT FLAT WA	SHER	P.D.		6/2/03		
REV.	DESCRIPTION		BY	CHK.	DATE		
		UNLESS DIMENSI	OTHERY ONAL TO	VISE NO DLERAN	TED CES		
		FRACTIONS	DECIN	IALS	ANGLES		
FIN	ISH:	±1/32	±.02	±.005	±1°		
	#						
	Albaceann HUSSEY S	EATING (COMP	ANY			
	SINCE 1835 NORTH BERN						
	NORTH BERN	ICA, MA	IVE (Jose	۱ ۲		
TITLE	: SECURITY STRAP DETAIL		Ic	ATE:	9/28/96		
JOB 1	NAME:		•				
LOCA	TION	_					

TITLE:	SECURITY STRAP DETAIL	L	DATE: 9/28/90
JOB NAME:			
LOCATION			
SCALE:	DRAWN BY: J. DAVIS	CHK BY: W.S.	APP BY:
PLOT D2	DWG. FIG4	SHEET 1 OF 1	JOB NO.



A SECURITY STRAP SS

P/N 1029770 (1) REQ'D PER INT STN CAST IRON ONLY



B 1/4" x 1/2" HEX HEAD MS ZP

P/N 1020158 (2) REQ'D PER STANCHION



C 1/4" FLANGE ACORN NUT ZP

P/N 1001774 (2) REQ'D PER INT STANCHION



D 5/16 x 1 1/4 HEX HEAD MS ZP

P/N 1005194 (2) REQ'D PER SEAT (STEEL STN'S)



P/N 1036815 (REPLACED WITH ITEM "X")



F 5/16" FLANGED HEX NUT ZP

P/N 1040033 (2) REQ'D PER SEAT PAN



G 5/16 x 1 1/2 HEX HEAD MS ZP

P/N 1000664 (2) REQ'D PER SEAT (CAST IRON STN'S)



3/8 x 4 1/4 THREADED ROD

H P/N 2035581 (SS) P/N 2035588 (ZP)

(2) REQUIRED PER RSMT STANCHION (CONCRETE RISER)



J 1/4 x 5/8 WASHER PL SS

P/N 1032778 2/CON 4/ WOOD FLOOR



K 5/16 x 3/4 WASHER FL SS

P/N 1025010 (2) REQ'D PER SEAT PAN



NUT: 3/8-16 HEX

P/N 2035613 (SS WAXED) P/N 1000746 (ZP)



3/8-16 X 1-1/2" TAPTITE HEX HD SLF THRD

P/N 1040645 (JS500, OUTDOOR) P/N 1003089 (ZP, INDOOR) (2) PER RSMT STANCHION (STEEL RISER)



N 1 1/8" O.D. ANCHOR WASHER

P/N 1033680 (2) REQ'D PER STANCHION



P 1/4-20 x 1 3/8 HEX CAP SCR

P/N 1039119 (2) REQ'D PER END PANEL



Q MS: 1/4-20 x 1/2 PTH BO G2

P/N 1008643 (1) REQ'D PER END PANEL



R 1/4 SPLIT LOCKWASHER SS

P/N 1042330 - OUTDOOR (SS) P/N 1005235 - INDOOR (ZP)

(2) REQ'D PER STANCHION



S 3/8 SPLIT LOCKWASHER SS

P/N 1016920 - OUTDOOR (SS) P/N 1000781 - INDOOR (ZP) (2) REQ'D PER STANCHION



T 1/4 x 1 3/4 PTH MS SS

P/N 2088255 (4) REQ'D PER BACK ASSEMBLY

NOTES:

1. REFER TO JOB PARTS LIST FOR SPECIFIC APPLICATION.

F	REMOVED ALL REFERENCES TO ORACLE, EC-2293	RGV		5/11/09
Ε	MODIFIED ANCHORS & BACK BOLTS	PMD		1/20/04
D	ADDED ITEM G / HARDWARE CONSOLIDATION EC 00-062	D.ST.P	E.B.	5/12/00
REV.	DESCRIPTION	BY	CHK.	DATE

FINISH:



HUSSEY SEATING COMPANY NORTH BERWICK, MAINE 03906

TITLE:	OLYMPIAD HARDWARE I	ISTING	DATE:	6/30/98
JOB NAME:	OLYMPIAD STANCHIO	NS		
LOCATION				
SCALE:	DRAWN BY: D.ST.P	CHK BY: J. DAVIS API	BY:	
PLOT D3	DWG. FIG5A	SHEET 1 OF 1 JOE	3	



U 1/4"-20 FLANGE NUT SS P/N 1038034 (4) REQUIRED PER BACK



V 5/16" FLANGED HEX NUT LK SS

P/N 1025861 (2) REQ'D PER SEAT



W 1/4-20 X 2 PTH MS LK SS

P/N 1038385 (4) REQ'D PER PAR BACK ASSEMBLY



X 5/16 x 1 1/2 HWH SS PLASTISOL P/N 2084474

(2) REQ'D PER SEAT



Y 1/4 x 3 1/4 MECHANICAL WEDGE ANCHOR W/NUT

P/N 2054616 (SS) P/N 2018912 (ZP) (2) PER FLMT STANCHION (CONCRETE FLOOR)



Z WASHER: 5/16 FL ZP P/N 1000806 (2) REQ'D PER SEAT



AA SCR 1/4 X 1 3/4 HWH ZP

P/N 1034331 (4) REQ'D WOOD FLOOR



BB CB 3/8-16 x 1 1/2 :GL:G2

P/N 1000709 (2) REQ'D CONSTRUCTION PLATE



CC NUT: 3/8-16 HX :GL

P/N 1000771 (2) REQ'D CONSTRUCTION PLATE



DD 1/4-20 FLANGE NUT SS P/N 1038034



GG

НН

3/8-16 x 5/8" FLAT HEAD SCREW SS

EE 1/4-20 x 1" PHIL FLAT HEAD ZP P/N 1032004



3/8-16 x 1 HEX HEAD MS SS

P/N 2089667



3/8-16 DROP-IN EXPANSION NUT

P/N 2054619 SS P/N 2018947 ZP



JJ 1/4 x 2 PTH MS SS

P/N 1038385 (4) REQ'D PER BACK ASSEMBLY



P/N 2089592

3/8-16 x 5/8 SOCKET HEAD SET SCREW

P/N 1040544



MM 1/4-20 x 1" PHIL FLAT HEAD SS

P/N 2024170



1/4 - 20 X 1 1/4" TAPTITE HEX HD SLF THRD

P/N 1026090 (JS500, OUTDOOR) P/N NOT YET ASSIGNED (ZP, INDOOR) (2) PER FLMT STANCHION (STEEL FLOOR)



PP #10 x 1 1/4 FLAT HEAD WOOD SCREW

P/N 1000857

1. REFER TO JOB PARTS LIST FOR SPECIFIC APPLICATION.

K REMOVED ALL REFERENCES TO ORACLE, EC-2293 5/11/09 J CORRECTED LENGTH OF TAPTITE, WAS 1" EC-1838 H NP 9/28/06 MODIFIED PART #1000857 TO PP 6/18/04 Н P.D. 6/18/04 BY CHK. DATE DESCRIPTION



HUSSEY SEATING COMPANY NORTH BERWICK, MAINE 03906

JOB NAME:
LOCATION
SCALE:
PLOT D3 OLYMPIAD HARDWARE LISTING DATE: 6/30/98 OLYMPIAD STANCHIONS DRAWN BY: D.ST.P CHK BY: J.DAVIS APP BY: SHEET 1 OF 1 JOB NO. FIG5B

REF. DWG. NO.

SPACING LAYOUT USING CENTER LINE BETWEEN AISLES

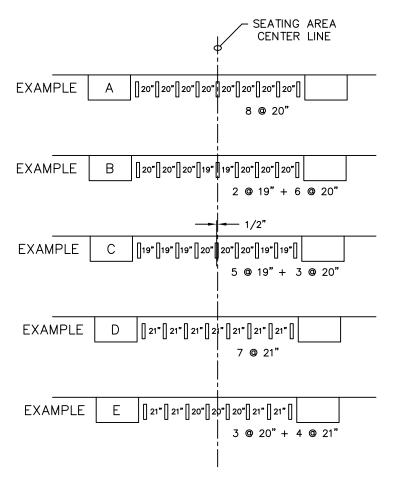
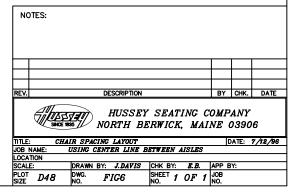
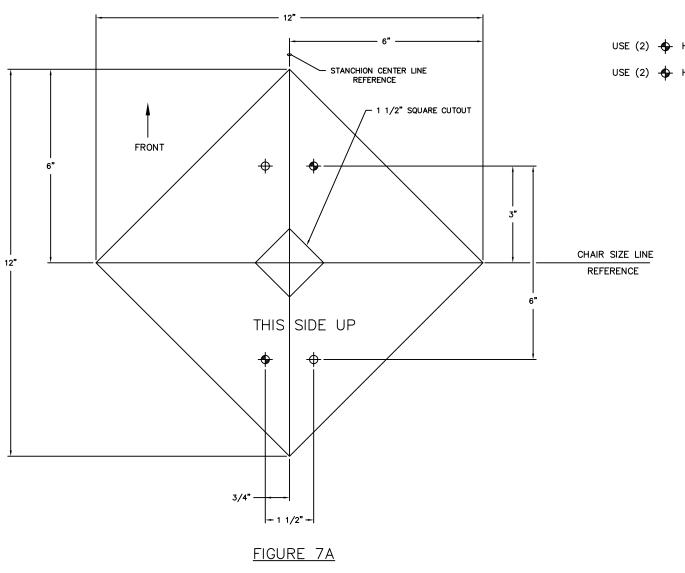


FIGURE 6



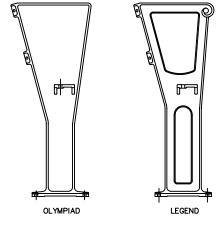
HOLE LOCATION TEMPLATE DIMENSIONS

OLYMPIAD CAST IRON FLOOR MOUNT STANCHIONS



USE (2) + HOLES FOR CONCRERE FLOOR

USE (2) + HOLES AND (2) + HOLES FOR WOOD FLOOR



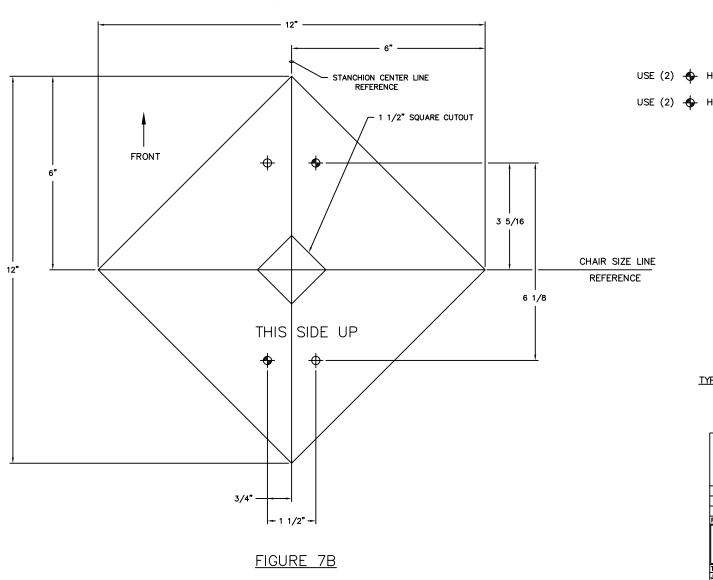
TYPICAL OLYMPIAD/LEGEND CAST IRON STANCHIONS

NOTES:				
_				
REV.	DESCRIPTION	BY	CHK.	DATE
1111	THIS CRY CRAMI	VG GO 1411	4 3772	
Till	HUSSEY SEATI.			

TITLE:		FLOOR	MOUN	IT TEMPL	ATE			DATE:	6/30/9
JOB NAME:	OLYI	(PIAD	CAST	IRON FLA	OOR MOUN	T STAN	CHIONS		
LOCATION	HOLE	LOCAT	ION T	EMPLATE	DIMENSI	ONAL IN	<i>IFORMAT</i>	ION	
SCALE:		DRAWN	BY:	J. DAVIS	CHK BY:	E. B.	APP B	IY:	
PLOT D		DWG.	FI	G7A	SHEET 1	OF	₄ JOB		
ICITE D	,	INΩ	1. 1.	U/A	INO 4	U.	/ INO		

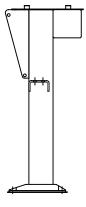
HOLE LOCATION TEMPLATE DIMENSIONS

OLYMPIAD STRAIGHT-TUBE, STEEL FLOOR MOUNT STANCHIONS



USE (2) + HOLES FOR CONCRERE FLOOR

USE (2) \spadesuit HOLES AND (2) \spadesuit HOLES FOR WOOD FLOOR



TYPICAL OLYMPIAD STRAIGHT-TUBE, STEEL STANCHION

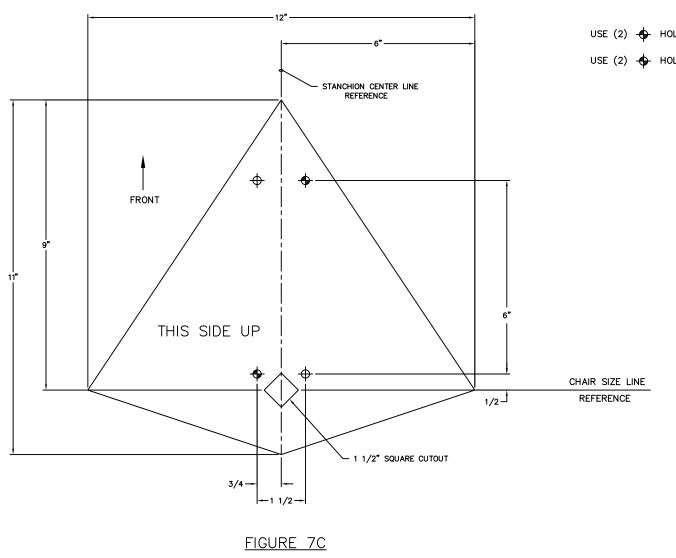
NO	TES:				
\vdash					
REV.	DESCRIPTION	BY	CHK.	DATE	
MISSEY SEATING COMPANY					

HUSSEY SEATING COMPANY
NORTH BERWICK, MAINE 03906

TITLE:	FLOOR MOUNT TEMP	LATE	DATE: 6/30/98
JOB NAME: OLYM	PIAD STRAIGHT-TUBE,	STEEL FLOOR MO	OUNT STANCHIONS
	LOCATION TEMPLATE	DIMENTIONAL INFO	RMATION
SCALE:	DRAWN BY: J. DAVIS	CHK BY: B.B.	APP BY:
PLOT D1	DWG. FICTR	SHEET 1 OF 1	JOB

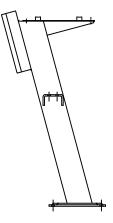
HOLE LOCATION TEMPLATE DIMENSIONS

OLYMPIAD RECLINED-TUBE, STEEL FLOOR MOUNT STANCHIONS



USE (2) + HOLES FOR CONCRERE FLOOR

USE (2) + HOLES AND (2) + HOLES FOR WOOD FLOOR



TYPICAL OLYMPIAD RECLINED-TUBE, STEEL STANCHION

NO	DTES:			
\vdash				
REV.	DESCRIPTION	BY	CHK.	DATE
	ATTENDED HISSEY SEATING CO	ามอ	ANY	

HUSSEY SEATING COMPANY
NORTH BERWICK, MAINE 03906

TITLE: FLOOR MOUNT TEMPLATE DATE: 6/30/88

LOCATION HOLE LOCATION TEMPLATE DIMENSIONAL INFORMATION

SCALE: DRAWN BY: J.DAVIS CHK BY: E.B. APP BYPLOT DI

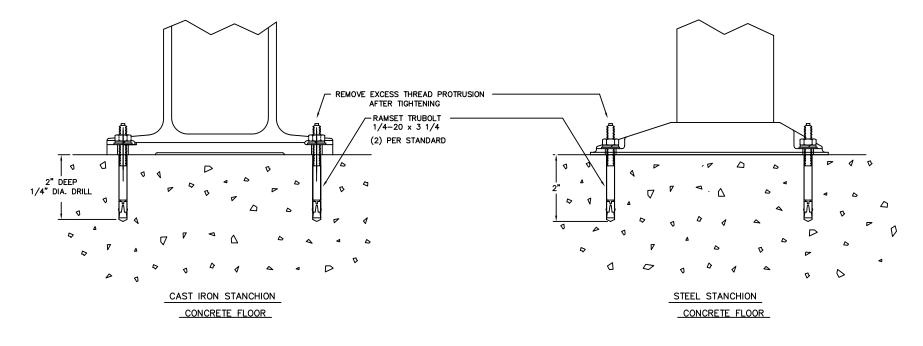
SIZE D1 DNG. FICTO SHEET

CURVED RISER TRANSFER GAUGE - STANCHION CENTER LINE REFERENCE RISER FACE REFERENCE 12" NOTES: DESCRIPTION HUSSEY SEATING COMPANY NORTH BERWICK, MAINE 03906 FIGURE 8 TITLE: JOB NAME: LOCATION SCALE: PLOT SIZE D1 RISER TRANSFER GAUGE DATE: 7/8/96

DRAWN BY: J.DAVIS | CHK BY: E.B. | APP BY: DWG. | FIG8 | SHEET 1 OF 1 NO. | JOB NO. |

RECOMMENDED INDOOR AND OUTDOOR FLOOR MOUNT ANCHORS

CAST IRON AND STEEL STANCHIONS



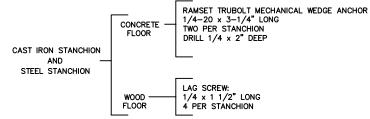


FIGURE 9

NOTES:

В	MODIFIED ANCHORS	PMD		1/20/04
A	ADD SPLIT LOCK WASHERS CEC96-100	J.D.	R.L.	1/22/97
REV.	DESCRIPTION	BY	CHK.	DATE

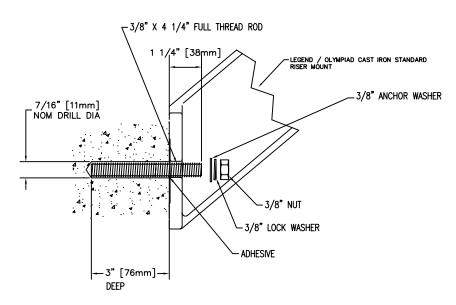


HUSSEY SEATING COMPANY NORTH BERWICK, MAINE 03906

TITLE:	FLOOR ANCHOR ARRANGE	MENT	DATE: 8/28/96
JOB NAME:	CAST IRON AND S	STEEL STANCHIONS	
LOCATION			
SCALE:	DRAWN BY: J. DAVIS	CHK BY: E.B.	APP BY:
PLOT D1	DWG. FIG9	SHEET 1 OF 1	JOB

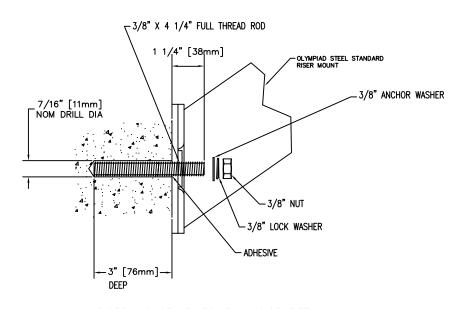
RECOMMENDED INDOOR AND OUTDOOR RISER MOUNT ANCHORS

CAST IRON STANCHIONS



RISER MOUNT ADHESIVE ANCHOR DETAIL

STEEL STANCHIONS



RISER MOUNT ADHESIVE ANCHOR DETAIL

D1

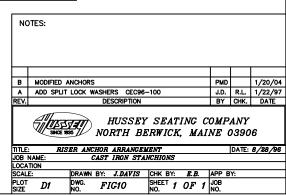
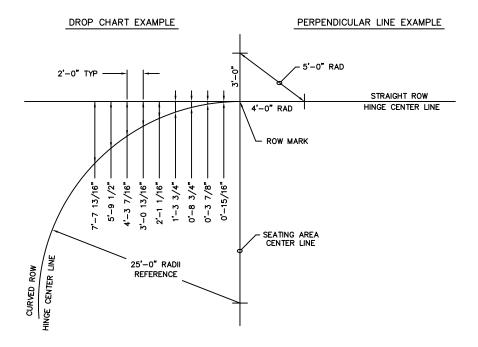


FIG10

SHEET 1 OF 1 JOB NO.

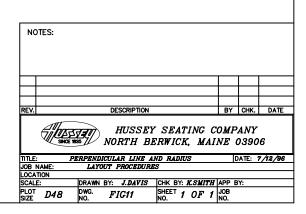
FIGURE 10

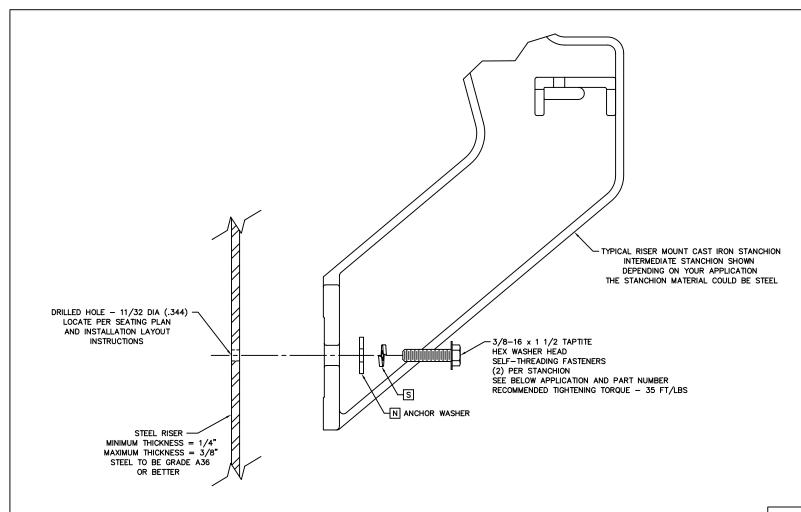


DROP CHART UNDER SEPARATE COVER

FIGURE 11

PERPENDICULAR LINE AND RADIUS LAYOUT PROCEDURES



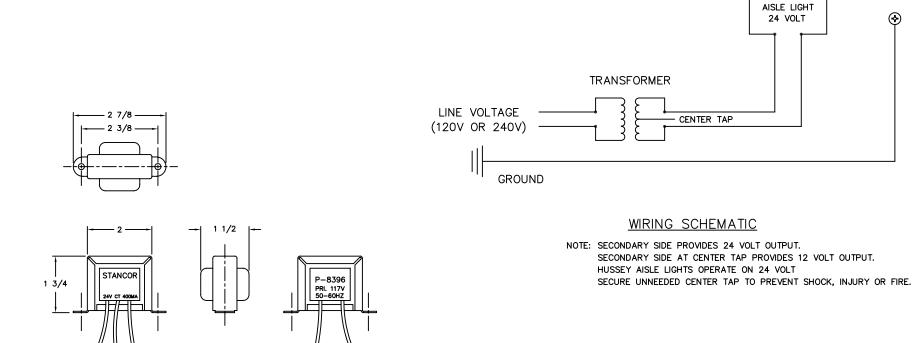


APPLICATION	PART NUMBER	FINISH	FASTENER DESCRIPTION
INDOOR	1003089	ZINC PLATED	3/8-16 x 1 1/2 TAPTITE
OUTDOOR	1040645	JS500	3/8-10 X 1 1/2 IAFIIIL

FIGURE 12

NO	TES:			
Α	UPDATED TORQUE	PMD		1/20/
0	ADD TO MANUAL CEC96-087	J.D.	E.B.	1/22/
REV.	DESCRIPTION	BY	снк.	DAT

~~	NORTH BERWICK, MAINE 03900
TITLE:	STEEL RISER ATTACHMENT METHOD DATE: 1/22/97
JOB NAME:	CAST IRON OR STEEL STANCHION
LOCATION	
SCALE:	DRAWN BY: J.DAVIS CHK BY: E.B. APP BY:
PLOT D1	DWG. FIG12 SHEET 1 OF 1 JOB NO.





P/N . 1032077 (SHOWN)

COLOR B (CENTER TAP)

COLOR A

P/N 1018433

SPECIFICATIONS: 117 VOLT PRIMARY 24 VOLT SECONDARY .400 AMP SECONDARY

COLOR A

BLACK &

SPECIFICATIONS: 230 VOLT PRIMARY 24 VOLT SECONDARY .200 AMP SECONDARY

BLACK

FIG13A

NOTES: A REMOVED ALL REFERENCES TO ORACLE, EC-2293 5/11/09 RGV DESCRIPTION BY CHK. DATE HUSSEY SEATING COMPANY NORTH BERWICK, MAINE 03906 TRANSFORMERS DATE: 2/4/98

FOR 24 VOLT AISLE LIGHT SYSTEMS DRAWN BY: K. LEAVITT CHK BY:

FIG 13A SHEET 1 OF 1 JOB NO.

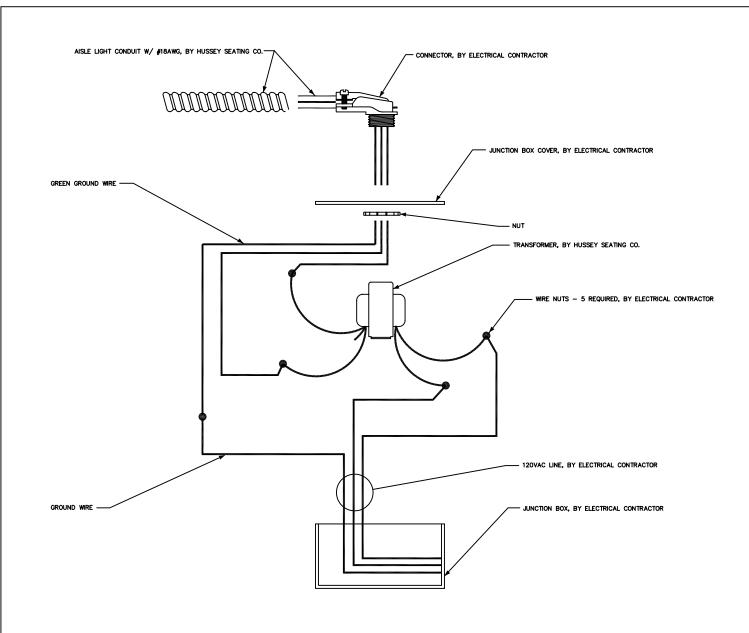
JOB NAME: LOCATION SCALE: PLOT D

"TO GROUND"

AISLE LIGHT SOCKET MOUNTING SCREW

(♦)

(000000)



NOTES:

- 1. THE TRANSFORMER, WIRE NUTS AND WIRING SHALL BE PLACED INSIDE THE JUNCTION BOX.
- 2. THE JUNCTION BOX WILL BE LOCATED IN THE FLOOR OR RISER, BY THE ELECTRICAL CONTRACTOR

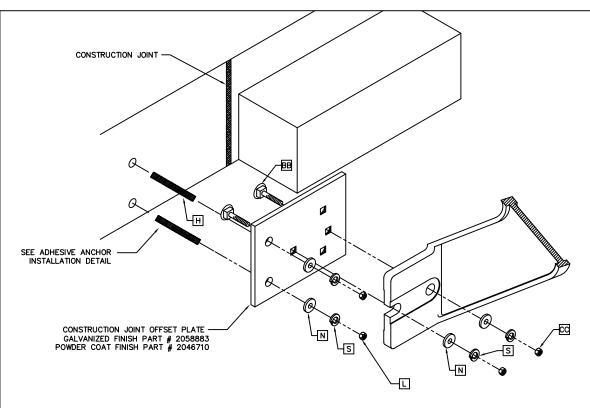
REV.	DESCRIPTION		BY	CHK.	DATE
		UNLESS DIMENSI	OTHERY ONAL TO	MSE NO DLERAN	OTED ICES
		FRACTIONS	DECIN	ALS .XXX	ANGLES
FINISH:		±1/32	±.02	±.005	±1°

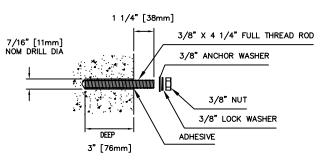
FINISH:

HUSSEY SEATING COM.
NORTH BERWICK, MAINE 03906

TITLE:
JOB NAME:
LOCATION
SCALE:
PLOT
SIZE
D1 TRANSFORMER INSTALLATION DATE: 2/4/98

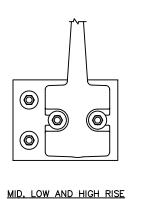
FIG13B



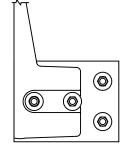


RISER MOUNT ADHESIVE ANCHOR DETAIL

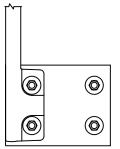
LEFT HAND MID RISE SHOWN



INTERMEDIATE STANCHION



MID_RISE RH_END_STANCHION



LOW AND HIGH RISE RH END STANCHION NOTES:

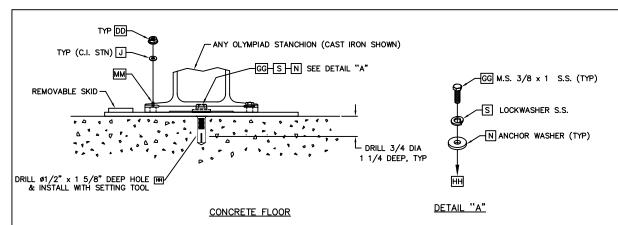
PLEASE NOTE THAT THE ANCHOR LOCATION IS DETERMINED ON A PER JOB BASIS.

С	MODIFIED ANCHORS	P.D.		1/20/04
В	ADDED PLATE PART NUMBERS	P.D.		6/2/03
Α	REVISED PLATES	NLC	J.D.	4/30/98
0	ORIGINAL CEC97-074	K.M.	K.L.L.	2/26/98
REV.	DESCRIPTION	BY	CHK.	DATE
	UNLESS O	THERW	ISE NO	TED

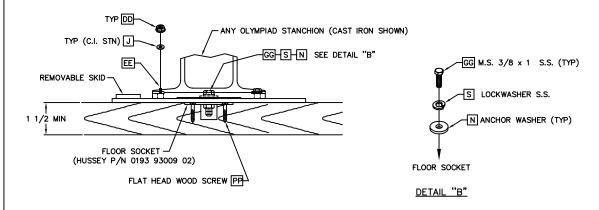


HUSSEY SEATING COMPANY NORTH BERWICK, MAINE 03906

TITLE:	INSTALLATION DRAWING	OF CONSTRUCTION	DATE: 2/24/98
JOB NAME:	JOINT PLATE WITH OLY	MPIAD STANCHION	
LOCATION			
SCALE:	DRAWN BY: KEN M	CHK BY: K.L.L APP	BY:
PLOT D2	DWG. FIG14	SHEET 1 OF 1 JOB	

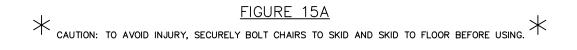


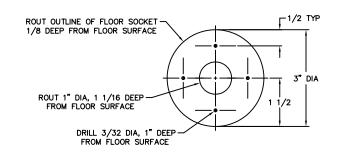
NOTE, CONCRETE FLOORS: WHEN CHAIRS ARE NOT FASTENED DOWN,
INSERT FLAT HEAD MACHINE KK
SCREW INTO EXPANSION NUTS TO KEEP DIRT
FROM COLLECTING IN THE HOLES.



WOOD FLOOR

NOTE, WOOD FLOORS: WHEN CHAIRS ARE NOT FASTENED DOWN, INSERT \coprod 3/8 x 5/8 SOCKET HD SET SCREW SCREW INTO FLOOR SOCKET HOLES TO KEEP DIRT FROM COLLECTING IN THE HOLES.

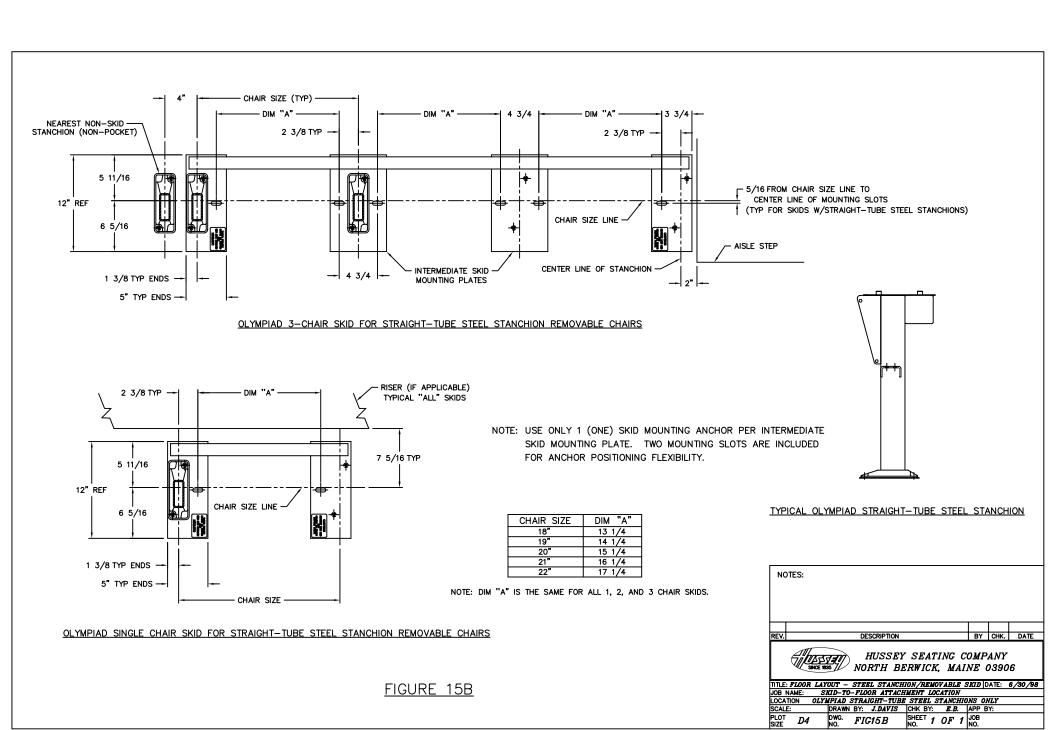


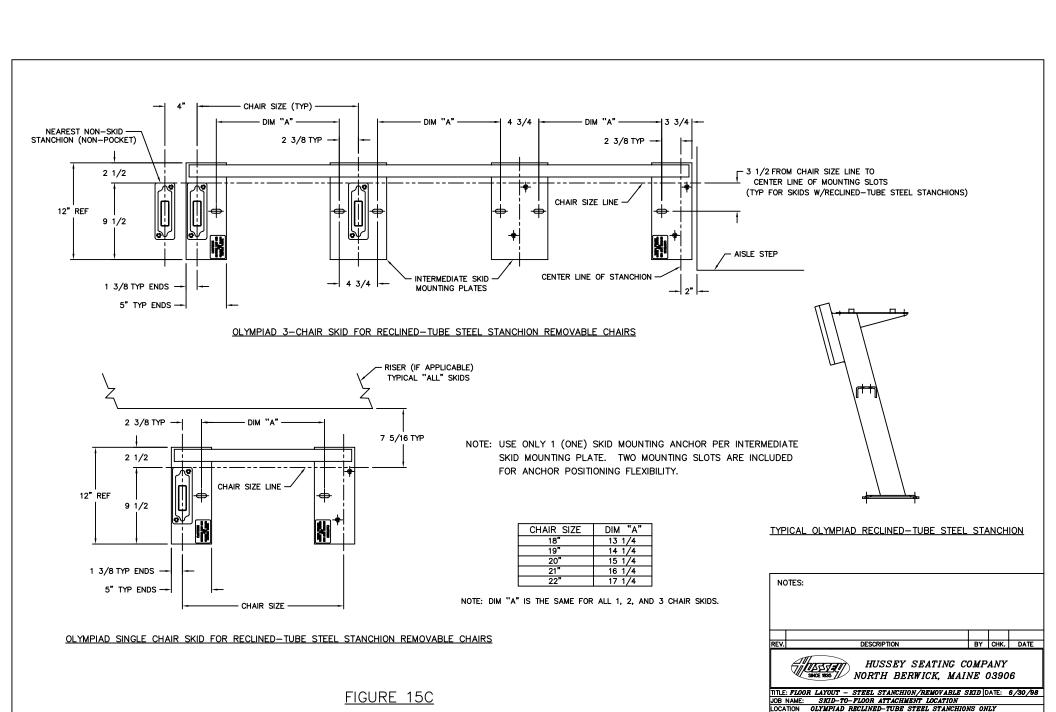


FLOOR SOCKET OUTLINE AND DRILLING INSTRUCTIONS DRAWN 2 TIMES SIZE

8	MODIFIED WOOD SCREW TO ITEM PP	PMD		6/17/04
A	A MODIFIED ANCHORS			1/20/04
REV.	DESCRIPTION	BY	снк.	DATE
NLV.	DESCRIPTION	, D1	CHK.	DAIL

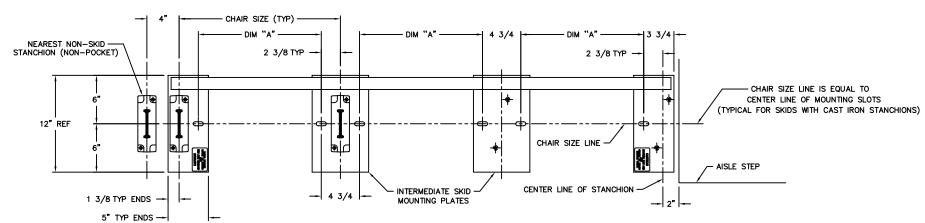
TITLE:	MOUNTING OF OLYMPIAD R	EMOVABLE CHAIR	DATE:	6/30/98
JOB NAME:	TYPICAL FOR ALL STA	NCHIONS		
LOCATION				
SCALE:	DRAWN BY: J. DAVIS	CHK BY: E.B.	APP BY:	
PLOT D2	DWG. FIG15A	SHEET 1 OF 1	JOB NO.	



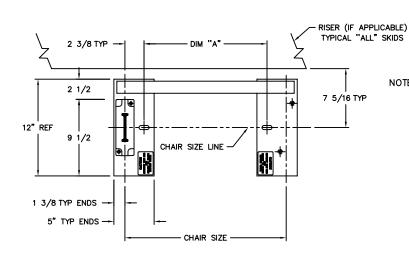


| DRAWN BY: J.DAVIS | CHK BY: E.B. | APP BY: | DWG. | FIG15C | NO. | NO.

SCALE: PLOT SIZE



OLYMPIAD/LEGEND 3-CHAIR SKID FOR CAST IRON STANCHION REMOVABLE CHAIRS



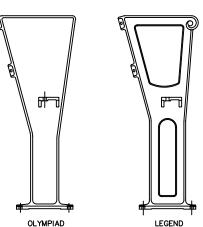
NOTE: USE ONLY 1 (ONE) SKID MOUNTING ANCHOR PER INTERMEDIATE SKID MOUNTING PLATE. TWO MOUNTING SLOTS ARE INCLUDED FOR ANCHOR POSITIONING FLEXIBILITY.

CHAIR SIZE	DIM "A"
18"	13 1/4
19"	14 1/4
20"	15 1/4
21"	16 1/4
22"	17 1/4

NOTE: DIM "A" IS THE SAME FOR ALL 1, 2, AND 3 CHAIR SKIDS.

OLYMPIAD/LEGEND SINGLE CHAIR SKID FOR CAST IRON STANCHION REMOVABLE CHAIRS





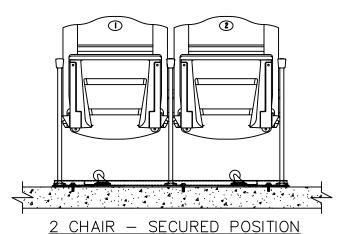
TYPICAL OLYMPIAD/LEGEND CAST IRON STANCHIONS

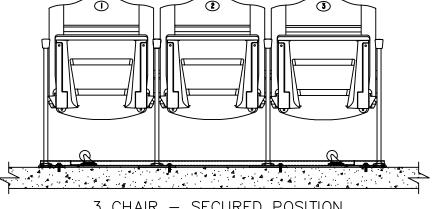
SCALE: PLOT SIZE

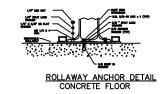
NOTES:				
1				
REV. DESCRIPTION	BY	CHK.	DATE	
HUSSEY SEATING COMPANY NORTH BERWICK, MAINE 03906				
TITLE: FLOOR LAYOUT - C.I. STANCHION/REMOVABLE SK	<i>D</i> [ATE:	6/30/98	
JOB NAME: SKID-TO-FLOOR ATTACHMENT LOCATION				
LOCATION OLYMPIAD CAST IRON STANCHIONS ONLY				

DRAWN BY: J.DAVIS CHK BY: E.B. APP BY:

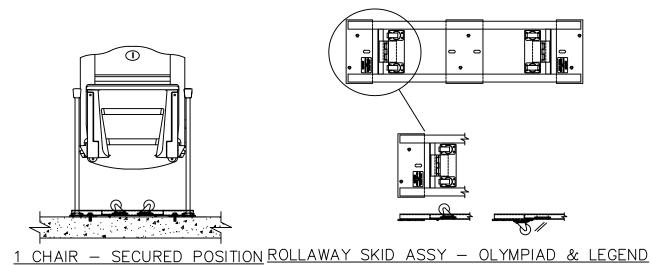
DWG. FIG15D SHEET 1 OF 1 NO.







3 CHAIR - SECURED POSITION

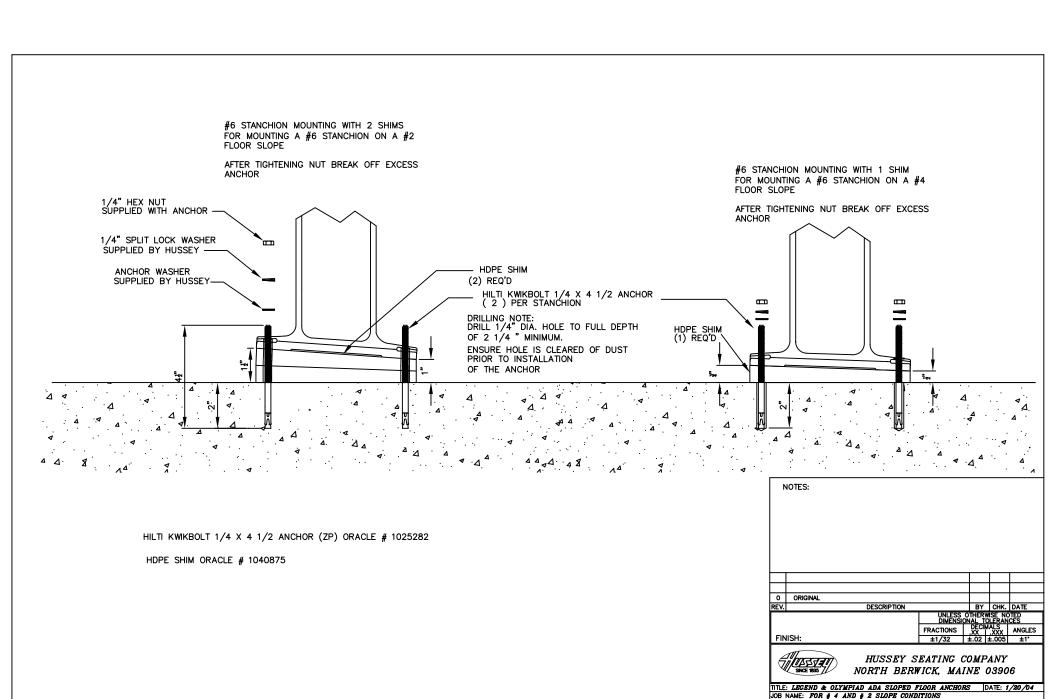


REMOVED ROLLAWAY ANCHOR DETAIL CONCRETE FLOOR

NOTES: HUSSEY SEATING COMPANY NORTH BERWICK, MAINE 03906

FIGURE 15E

DATE: 1/20/04 CHK BY: APP
SHEET 1 OF 1 JOB
NO. 1 OF 1 DWG. FIG15E



LOCATION: SCALE:

FILE NAME

REF. DWG. NO.

CHK BY:

FIG16

SHEET 1 OF 1 JOB

APP BY: