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**DIVISION 4**

**BATHROOM**

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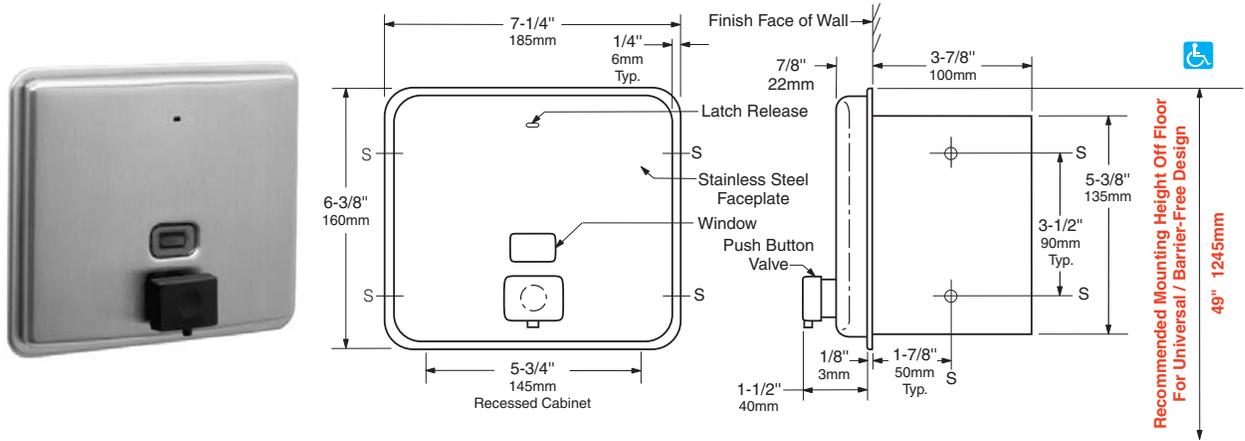




Technical Data

# ConturaSeries® RECESSED SOAP DISPENSER

# B-4063



**Rough Wall Opening**  
 5-7/8" (150mm) wide  
 5-1/2" (140mm) high  
 4" (102mm) minimum  
 recessed depth

### MATERIALS:

**Cabinet** — 18-8 S, type-304, heavy-gauge stainless steel. All-welded construction.

**Flange** — 18-8 S, type-304, heavy-gauge stainless steel with satin finish. Drawn, one-piece, seamless construction. Radius on corners and return edges complement corners and edges of faceplate.

**Faceplate** — 18-8 S, type-304, 20-gauge (1.0mm) stainless steel with satin finish. Drawn, one-piece, seamless construction. Front of faceplate has same degree of arc as other Bobrick ConturaSeries washroom accessories. Radius on corners and edges of faceplate complement other ConturaSeries accessories. Equipped with a plastic soap refill-indicator window and concealed locking device opened with a special key provided. Two stainless steel angle brackets are spot-welded to back of faceplate for securing plastic container.

**Soap Container** — Molded plastic. Large opening equipped with plastic cover. Capacity: 50-fl oz (1.5-L).

**Valve** — Black molded plastic push button and spout. Soap head-holding mushroom valve. Stainless steel spring. U-packing seal and duckbills. Antibacterial-soap-resistant plastic cylinder.

### OPERATION:

Corrosion-resistant valve dispenses commercially marketed all-purpose hand soaps. Valve operates with one hand, without tight grasping, pinching, or twisting of the wrist, and with less than 5 pounds of force (22.2 N) to comply with barrier-free accessibility guidelines (including ADAAG in U.S.A.). Window indicates when refill is required. Faceplate unlocks with key provided and pulls out for filling container. Large opening in container provides fast, easy filling. Faceplate/container assembly can be removed for cleaning.

### INSTALLATION:

Provide framed rough wall opening 5-7/8" wide x 5-1/2" high (150 x 140mm). Minimum recessed depth required from finish face of wall is 4" (102mm). Allow clearance for construction features that may protrude into rough wall opening from opposite wall. Coordinate with mechanical engineer to avoid pipes, vents, and conduits. Mount unit in rough wall opening with shims between framing and cabinet at all points indicated by an S, then secure unit with #8 x 1-1/4" (4.2 x 32mm) sheet-metal screws (not furnished).

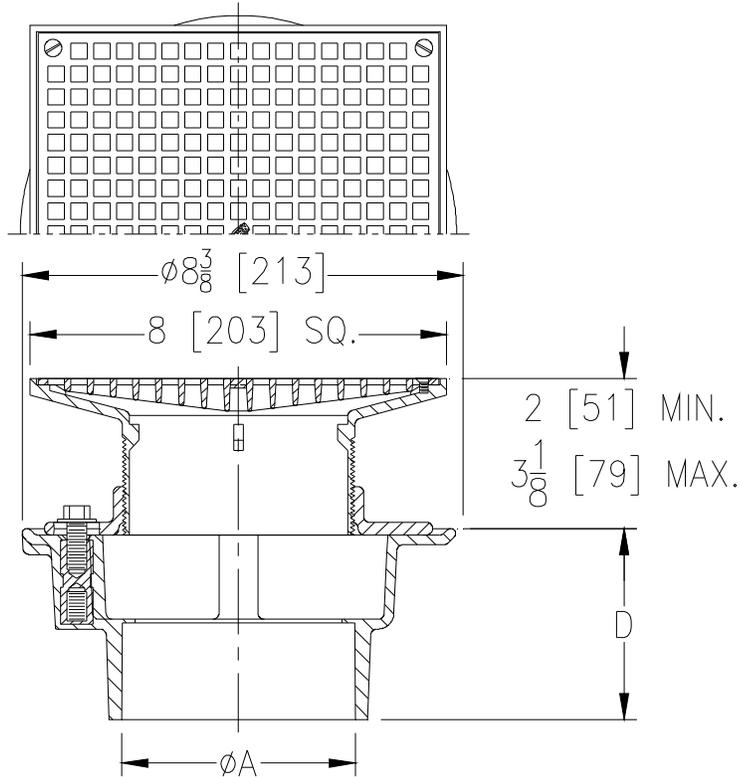
**Note:** Place unit as close to top of deck of lavatory as plumbing vent code will permit and with bottom of door high enough to clear fixture trim.

### SPECIFICATION:

Recessed soap dispenser shall be type-304 stainless steel with all-welded construction; exposed surfaces shall have satin finish. Corrosion-resistant valve shall dispense commercially marketed all-purpose hand soaps. Valve shall be operable with one hand and with less than 5 pounds of force (22.2 N) to comply with barrier-free accessibility guidelines (including ADAAG in U.S.A.). Front of soap dispenser faceplate shall have same degree of arc and match other Bobrick ConturaSeries accessories in the washroom. Radius on corners and edges of flange and faceplate shall complement other Bobrick ConturaSeries washroom accessories. Flange shall be drawn, one-piece, seamless construction. Soap dispenser faceplate shall be drawn, 20-gauge (1.0mm), one-piece, seamless construction; equipped with an soap refill-indicator window and concealed locking device opened with special key provided; and shall pull out for filling and cleaning the covered molded plastic soap container attached to back. Soap container shall have a capacity of 50-fl oz (1.5-L).

**Recessed Soap Dispenser For Antibacterial Soaps shall be Model B-4063 of Bobrick Washroom Equipment, Inc., Clifton Park, New York; Jackson, Tennessee; Los Angeles, California; Bobrick Washroom Equipment Company, Scarborough, Ontario; Bobrick Washroom Equipment Pty. Ltd., Australia; and Bobrick Washroom Equipment Limited, United Kingdom.**

Dimensional Data (inches and [ mm ]) are Subject to Manufacturing Tolerances and Change Without Notice



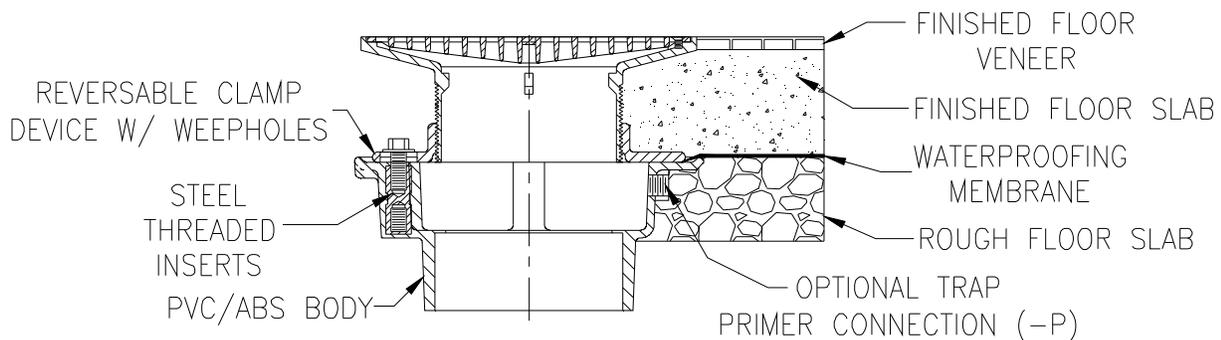
Dimensions In Inches			Grate Open Area Sq. In [cm <sup>2</sup> ]
Product	'A' Connections	D	
___ FD2280-PV3-ST-S8	3 [76] PVC Hub	3-11/16 [94]	28 [21]
___ FD2280-PV4-ST-S8	4 [102] PVC Hub	3-13/16 [97]	
___ FD2280-AB3-ST-S8	3 [76] ABS Hub	3-11/16 [94]	
___ FD2280-AB4-ST-S8	4 [102] ABS Hub	3-13/16 [97]	

**FD2280-ST-S8 Finished Area Floor Drain w/ Square Top** - Drain is furnished with a PVC or ABS body, complete with steel-threaded inserts. Adjustable ABS head with 8 [203] square nickel head assembly and reversible clamping collar.

**Options:**

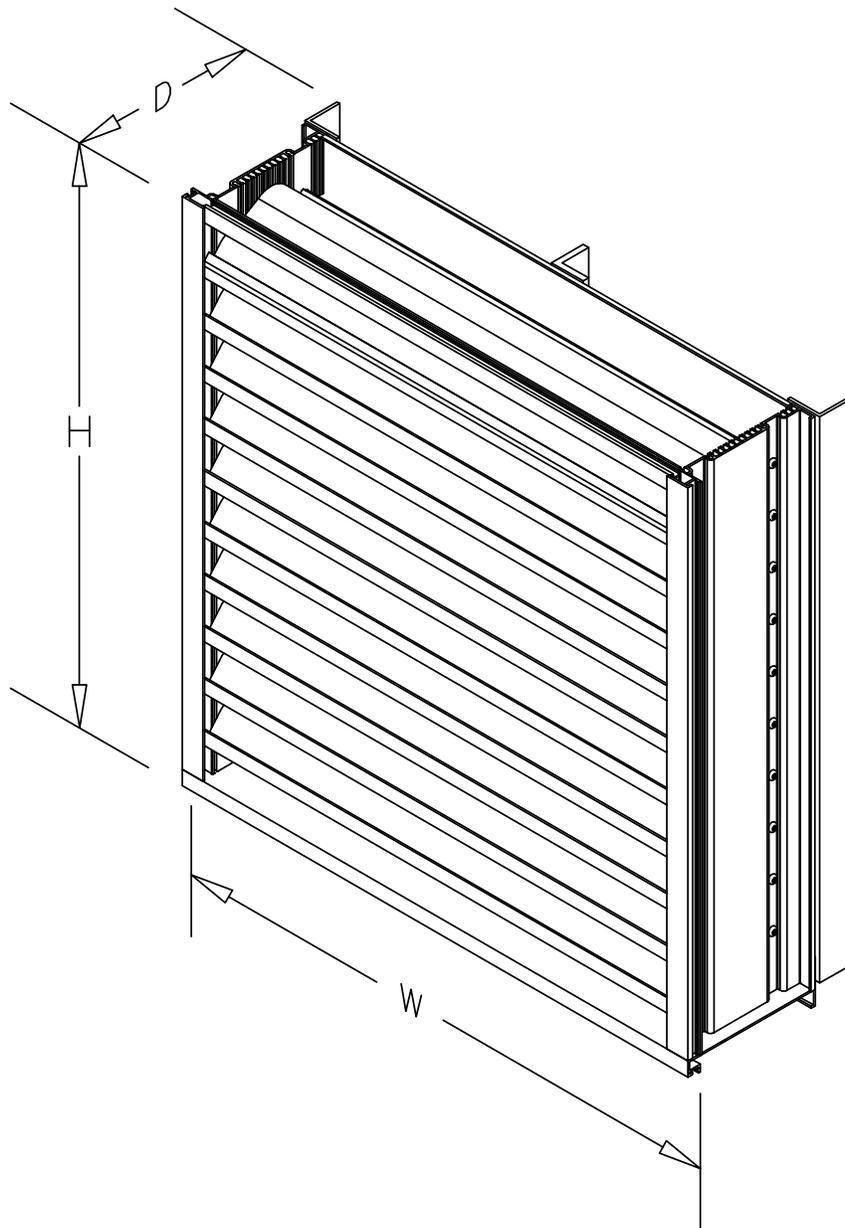
- \_\_\_ -P 1/2 [13] Trap Primer Connection
- \_\_\_ -VP Vandal-Proof

**Typical Installation**



## Installation, Operation, and Maintenance Instructions

This manual is the property of the owner, and is required for future maintenance.  
Please leave it with the owner when the job is complete.

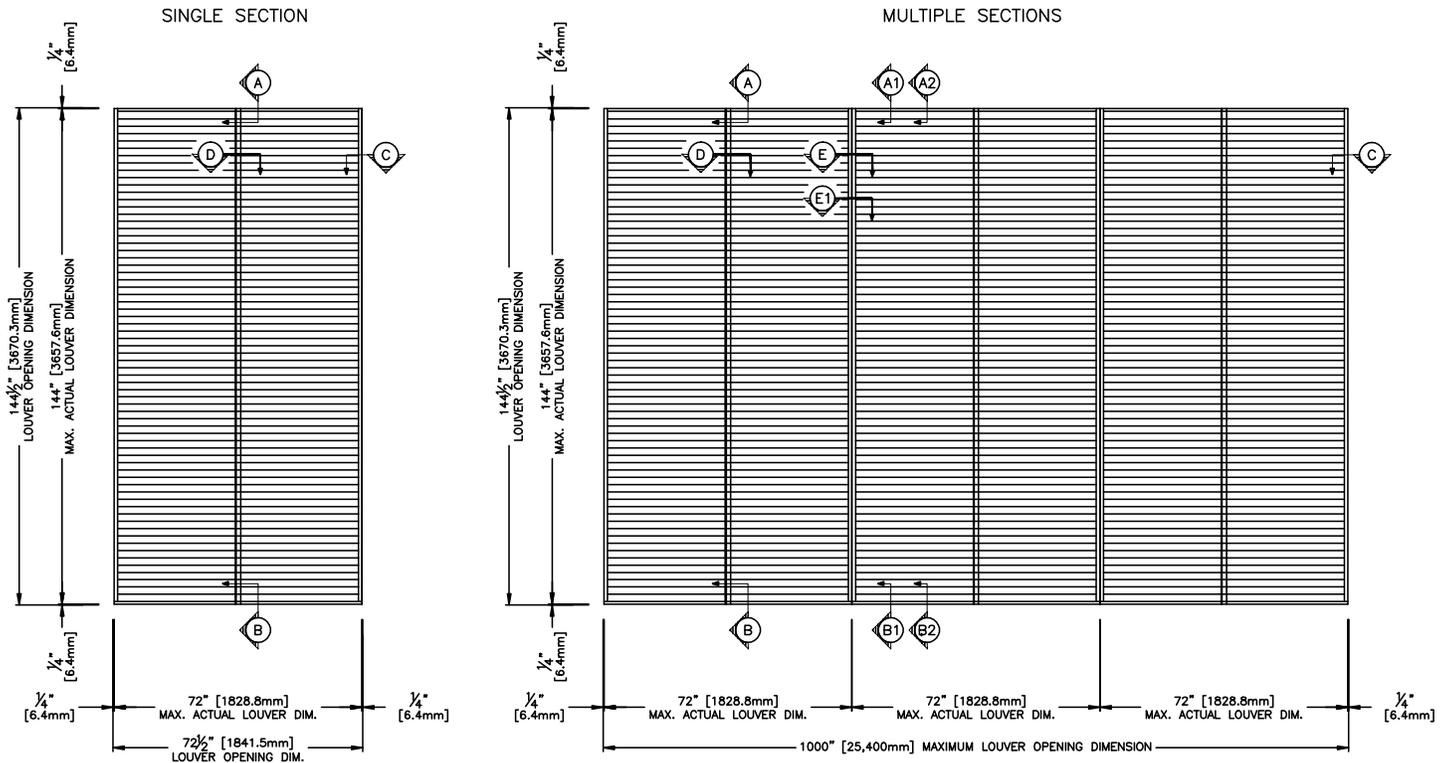


### **SAFETY WARNING:**

**Improper installation, adjustment, alteration, service or maintenance can cause property damage, injury or death. Read the installation, operating, and maintenance instructions thoroughly before installing or servicing this equipment.**

### Maximum Size and Installation Information

Model EHH-601D is a Miami-Dade Qualified and Florida Product Approved louver and must be installed in accordance with the installation instructions shown herein. Model EHH-601D is qualified for installation within concrete/masonry, steel stud, structural steel or wood framed building conditions. Model EHH-601D is structurally calculated to withstand positive and negative wind-loads up to 150 PSF. The maximum single section rough opening width is 72.75 in. The maximum single section rough opening height is 144.50 in. While the maximum rough opening height is limited to 144.50 in., the rough opening width is limited to 1,000 in. as multiple sections may be installed side by side in accordance with installation instructions.



**Minimum Rough  
Opening Size**  
12 in. W x 7 in. H

**Maximum Single Section  
Rough Opening Size**  
72.75 in. W x 144.50 in. H

### Building Condition/Substrate Limitations

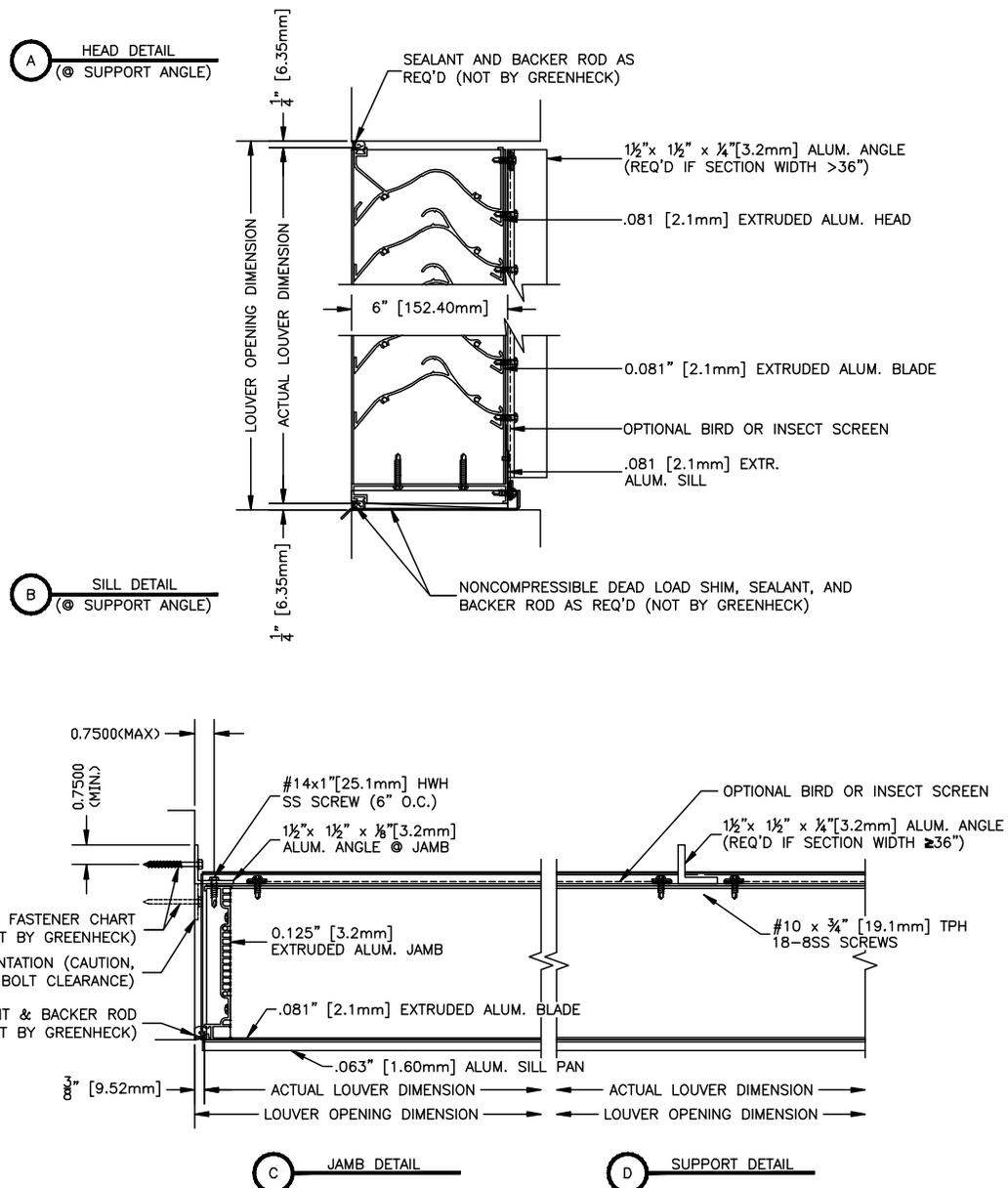
- All metal stud substrate should be min. 10 Ga. FY= 36 KSI
- All structural steel substrate shall be min. 0.125 in. thick FY= 36 KSI
- All concrete substrate shall be min. 4000 PSI (2000 PSI allowed with SDR)
- Concrete masonry shall be ASTM C90, Type II, 2000 PSI, grout-filled

# Installation Instructions

# EHH-601D

Channel Installation  
Single Section

Florida Product Approval No: FL10088  
Miami-Dade NOA No.: 10-0921.10  
Maximum Wind-load: 150 PSF



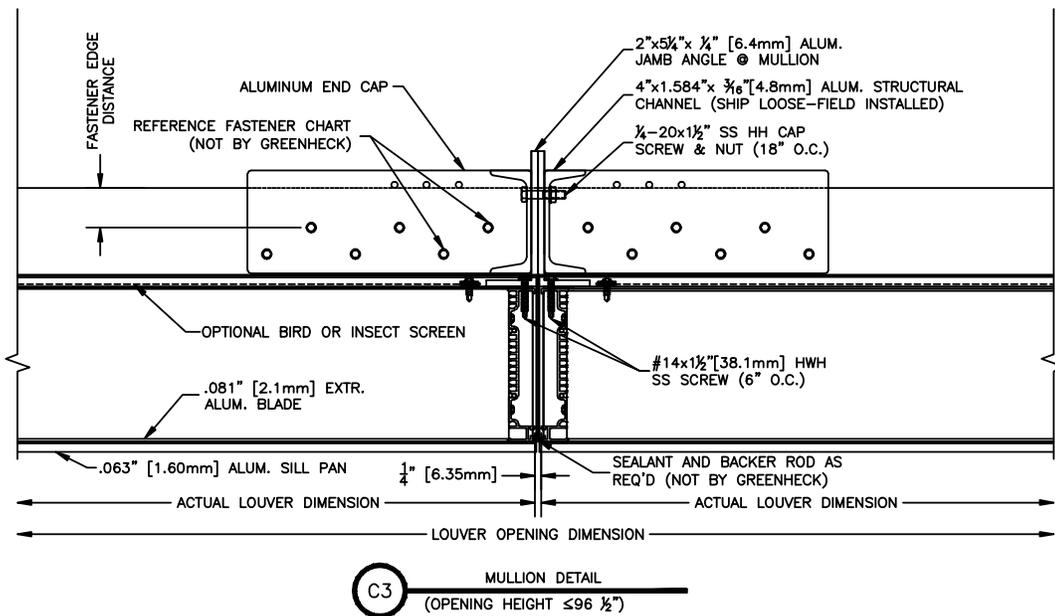
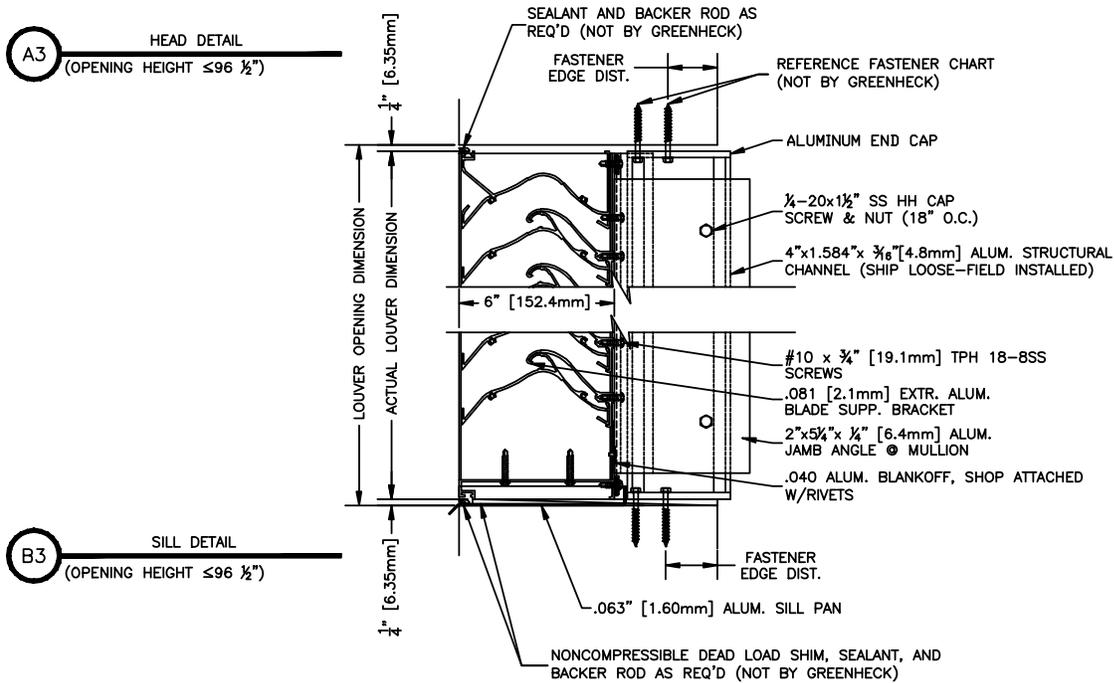
# Installation Instructions

# EHH-601D

Channel Installation  
 Multiple Sections  
 Height ≤ 96 ½"

Florida Product Approval No: FL10088  
 Miami-Dade NOA No.: 10-0921.10  
 Maximum Wind-load: 150 PSF

Reference page 5 for alternate head/sill detail.

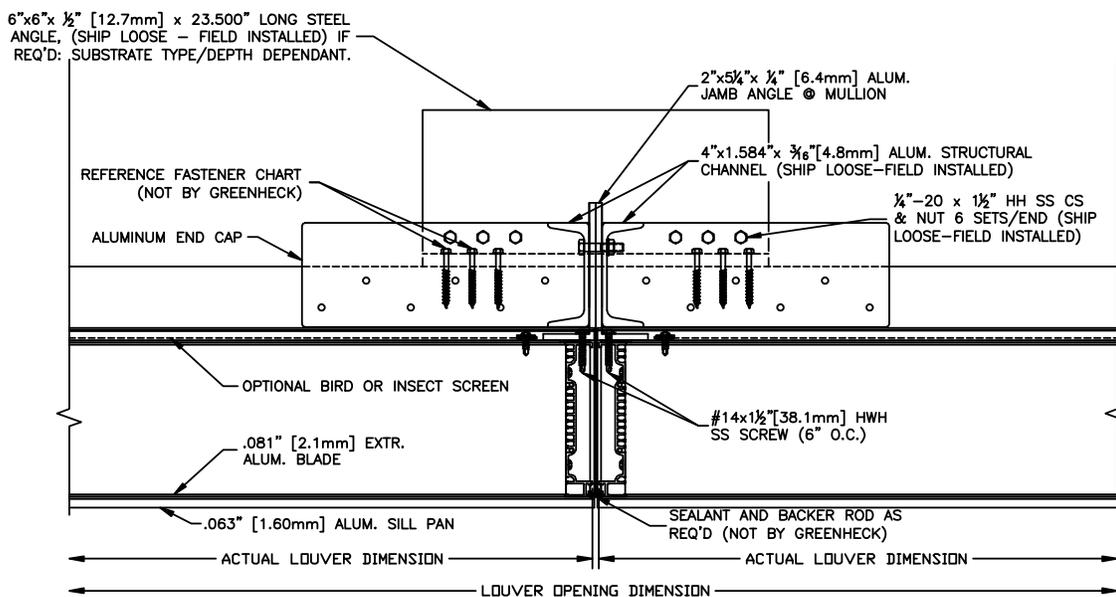
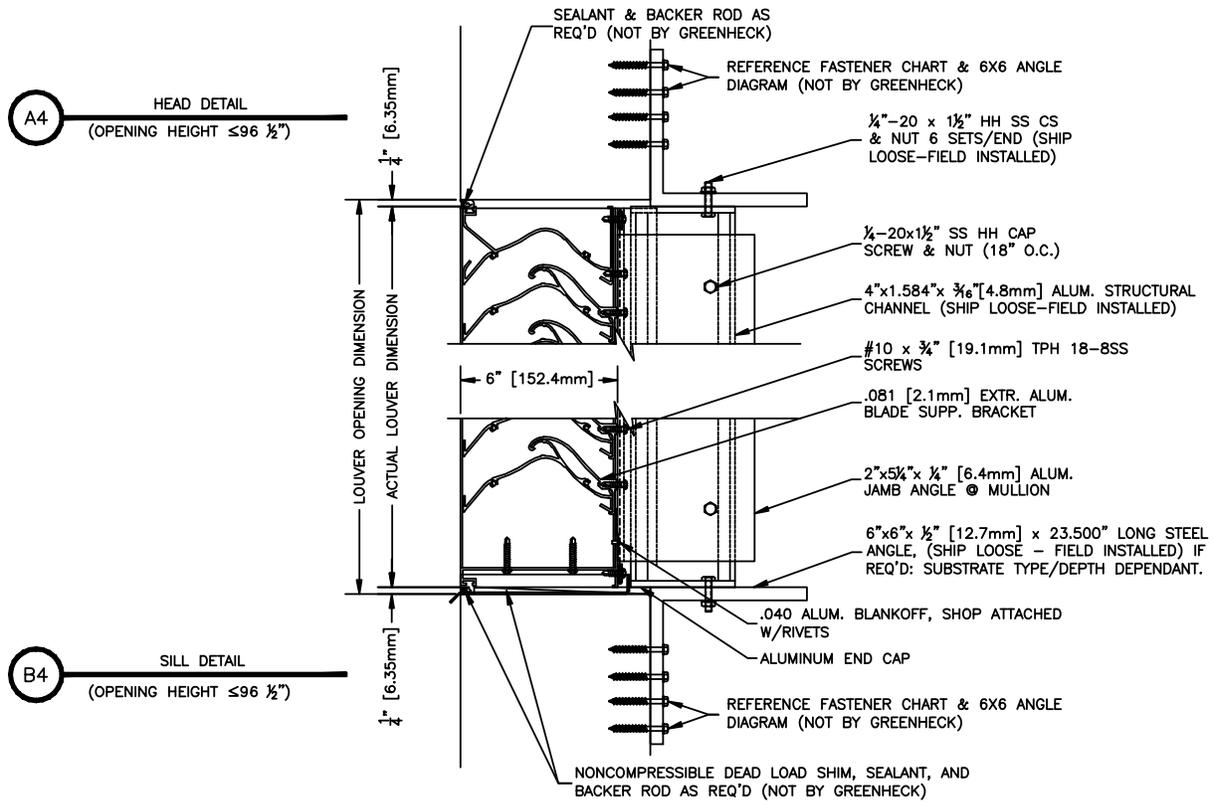


# Installation Instructions

# EHH-601D

Channel Installation  
 Multiple Sections  
 Height  $\leq 96 \frac{1}{2}$ "

Florida Product Approval No: FL10088  
 Miami-Dade NOA No.: 10-0921.10  
 Maximum Wind-load: 150 PSF



**C4 MULLION DETAIL**  
 (OPENING HEIGHT  $\leq 96 \frac{1}{2}$ " )

# Installation Instructions

# EHH-601D

Channel Installation

Multiple Sections

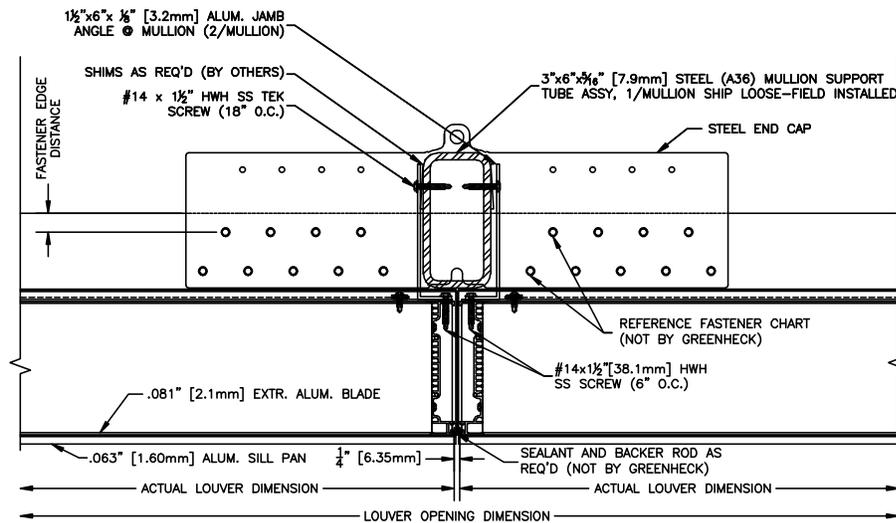
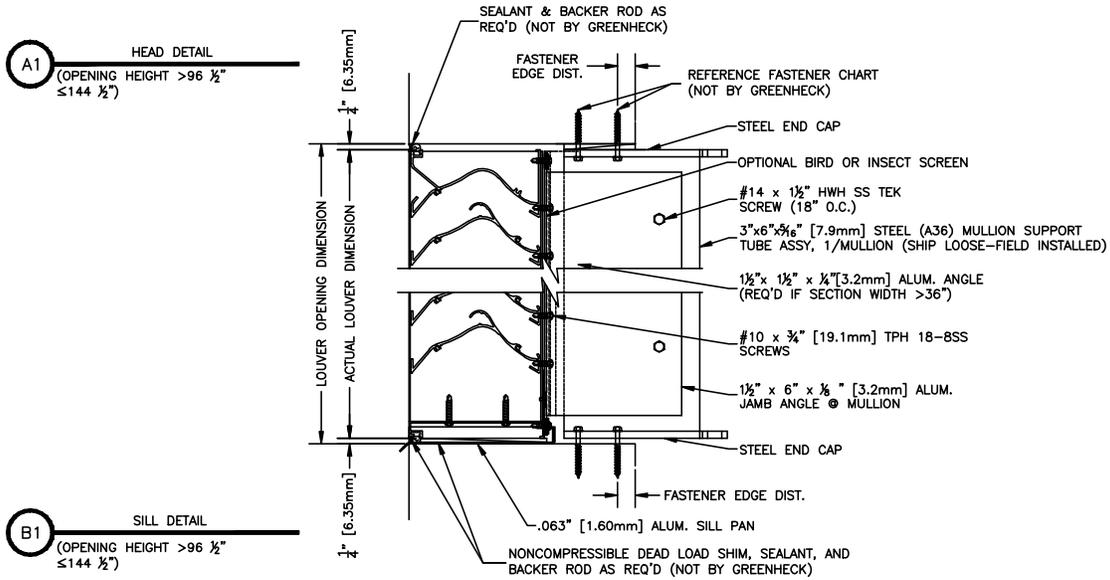
Height > 96 1/2" ≤ 144 1/2"

Florida Product Approval No: FL10088

Miami-Dade NOA No.: 10-0921.10

Maximum Wind-load: 150 PSF

Reference page 7 for alternate head/sill detail.



# Installation Instructions

# EHH-601D

Channel Installation

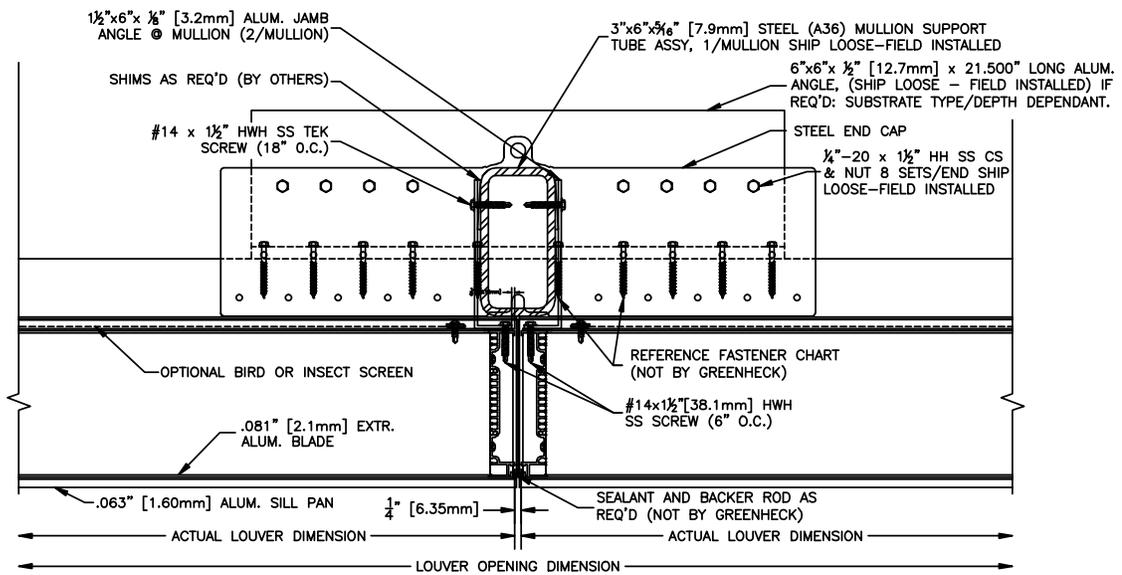
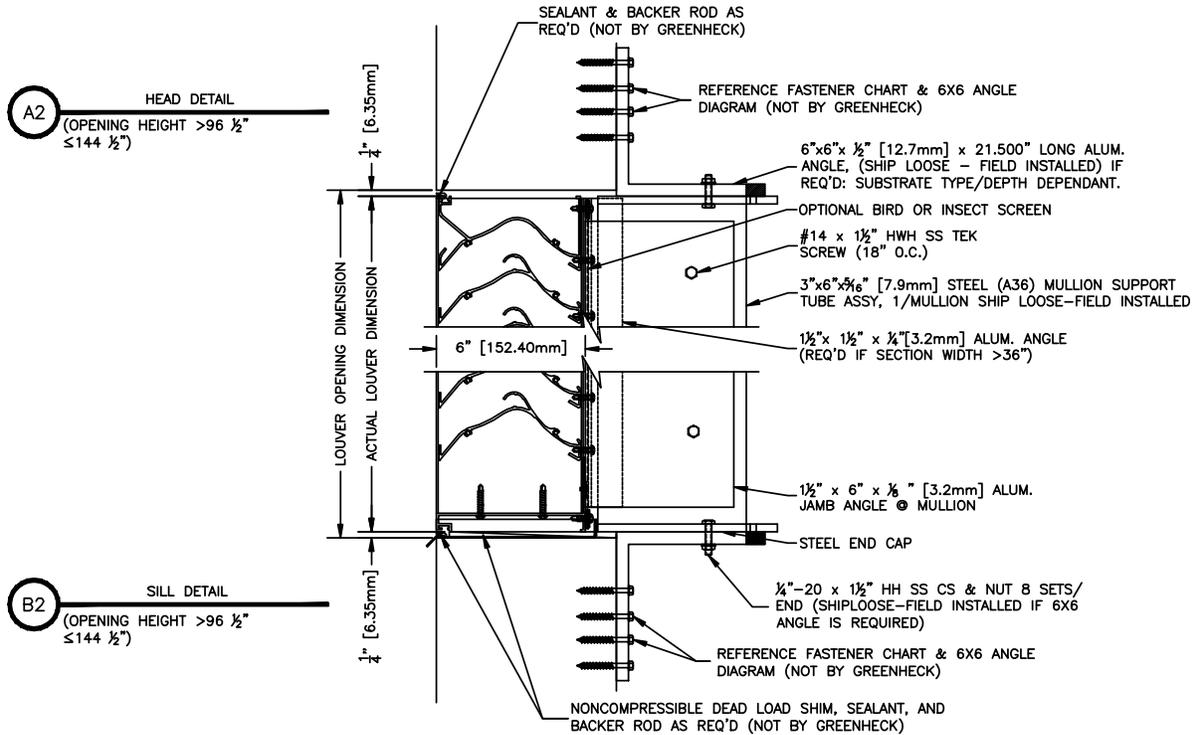
Florida Product Approval No: FL10088

Multiple Sections

Miami-Dade NOA No.: 10-0921.10

Height > 96 1/2" ≤ 144 1/2"

Maximum Wind-load: 150 PSF



**C2 MULLION DETAIL**  
(OPENING HEIGHT >96 1/2" ≤144 1/2")

# Installation Instructions

# EHH-601D

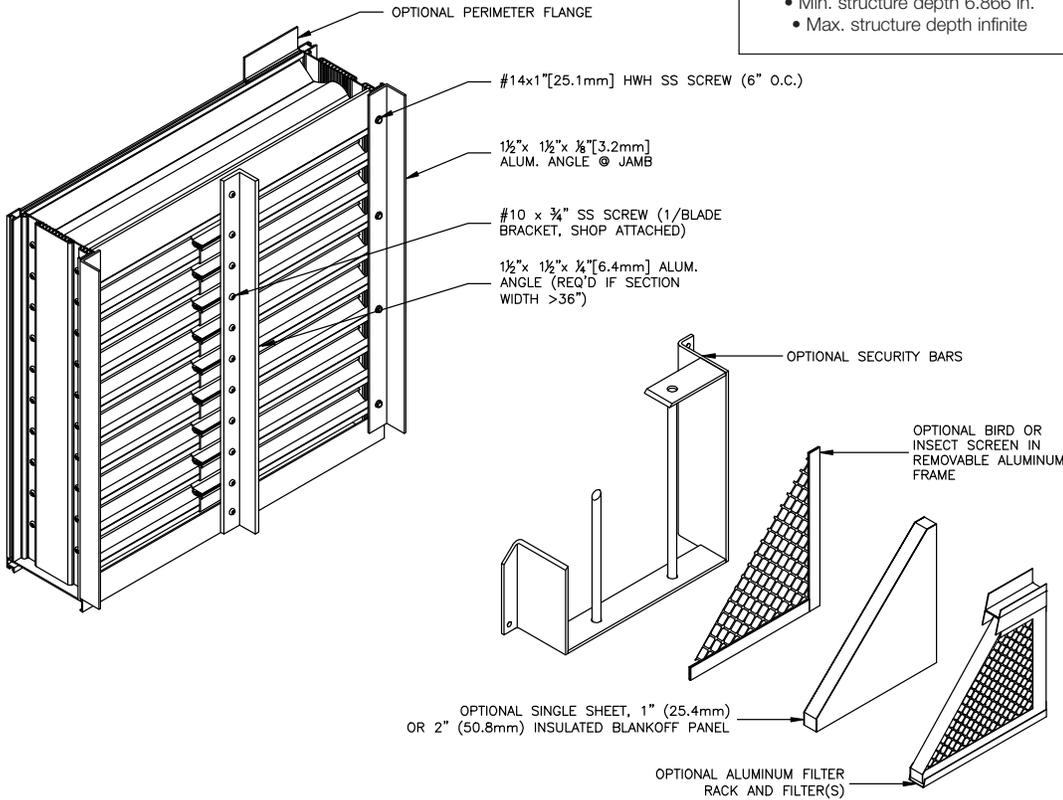
## Channel Installation Single Section

Florida Product Approval No: FL10088  
Miami-Dade NOA No.: 10-0921.10  
Maximum Wind-load: 150 PSF

### Structure Depth

- CMU / Concrete Substrate**
- Min. structure depth 6.866 in.
  - Max. structure depth infinite

- Steel Stud / Structural Steel Substrate**
- Min. structure depth 5.866 in.
  - Max. structure depth infinite



**FASTENER SCHEDULE (FIELD INSTALLED - NOT BY GREENHECK)**

CONCRETE	CMU	STEEL	MIN.	FASTENER TYPE	DIAMETER	# RQD.	CENTERS	EDGE	EMBED.*	CENTER
JAMB PERIMETER ANGLE FASTENER										
X			2KSI	SCOTS TAPCON / TAPCON	1/4	VARIES	4.750	1.500	1.750	
X			4KSI	SCOTS TAPCON / TAPCON	1/4	VARIES	6.000	1.500	1.750	
	X		1.5KSI	SCOTS TAPCON / TAPCON	1/4	VARIES	3.000	1.500	1.750	
		X	65KSI Fy	BOLT/NUT OR TAPPING SCREW	1/4	VARIES	6.000	0.500	0.125	
MULLION END PLATE FASTENER, HEIGHT <=144										
X			2KSI	SCOTS TAPCON / TAPCON	1/4	9/END	2.000	1.500	1.625	
X			4KSI	SCOTS TAPCON / TAPCON	1/4	8/END	2.000	1.500	1.625	
		X	65KSI Fy	BOLT/NUT OR TAPPING SCREW	1/4	8/END	1.000	0.500	0.125	
MULLION ANGLE MOUNT FASTENER, HEIGHT <=144										
X			2KSI	SCOTS TAPCON / TAPCON	1/4	32/ANG.	2.000	1.500	1.750	3.375
X			4KSI	SCOTS TAPCON / TAPCON	1/4	27/ANG.	2.000	1.500	1.750	3.375
	X		1.5KSI	SCOTS TAPCON / TAPCON	1/4	32/ANG.	2.000	1.500	1.750	3.375
		X	65KSI Fy	BOLT/NUT OR TAPPING SCREW	1/4	16/ANG.	1.000	0.500	0.125	3.000
		X	65KSI Fy	BOLT/NUT OR TAPPING SCREW	1/4	11/ANG.	1.000	0.500	0.188	3.000
		X	65KSI Fy	BOLT/NUT OR TAPPING SCREW	1/4	16/ANG.	1.000	0.500	0.188	3.766
MULLION END PLATE FASTENER, HEIGHT <=96										
X			2KSI	SCOTS TAPCON / TAPCON	1/4	6/CAP	2.000	1.500	1.750	
X			4KSI	SCOTS TAPCON / TAPCON	1/4	6/CAP	2.000	1.500	1.750	
		X	65KSI Fy	BOLT/NUT OR TAPPING SCREW	1/4	3/CAP	1.000	0.500	0.125	
MULLION ANGLE MOUNT FASTENER, HEIGHT <=96										
X			2KSI	SCOTS TAPCON / TAPCON	1/4	11/ANG.	2.000	1.500	1.750	3.375
X			4KSI	SCOTS TAPCON / TAPCON	1/4	9/ANG.	2.000	1.500	1.750	3.375
	X		1.5KSI	SCOTS TAPCON / TAPCON	1/4	11/ANG.	2.000	1.500	1.750	3.375
		X	65KSI Fy	BOLT/NUT OR TAPPING SCREW	1/4	7/ANG.	1.000	0.500	0.125	3.766
		X	65KSI Fy	BOLT/NUT OR TAPPING SCREW	1/4	6/ANG.	1.000	0.500	0.125	3.000

\* EMBEDMENT DEPTH IS EQUAL TO OVERALL FASTENER LENGTH FOR CONCRETE/CMU FASTENERS. IF SHIMS ARE USED, FASTENER LENGTH MUST BE INCREASED BY THICKNESS OF SHIMS.  
• REFERENCE SUBSTRATE DEPTH CHART TO DETERMINE IF MULLION ANGLE IS REQUIRED.

# Installation Instructions

# EHH-601D

## Channel Installation

## Multiple Sections

Height  $\leq 96 \frac{1}{2}$

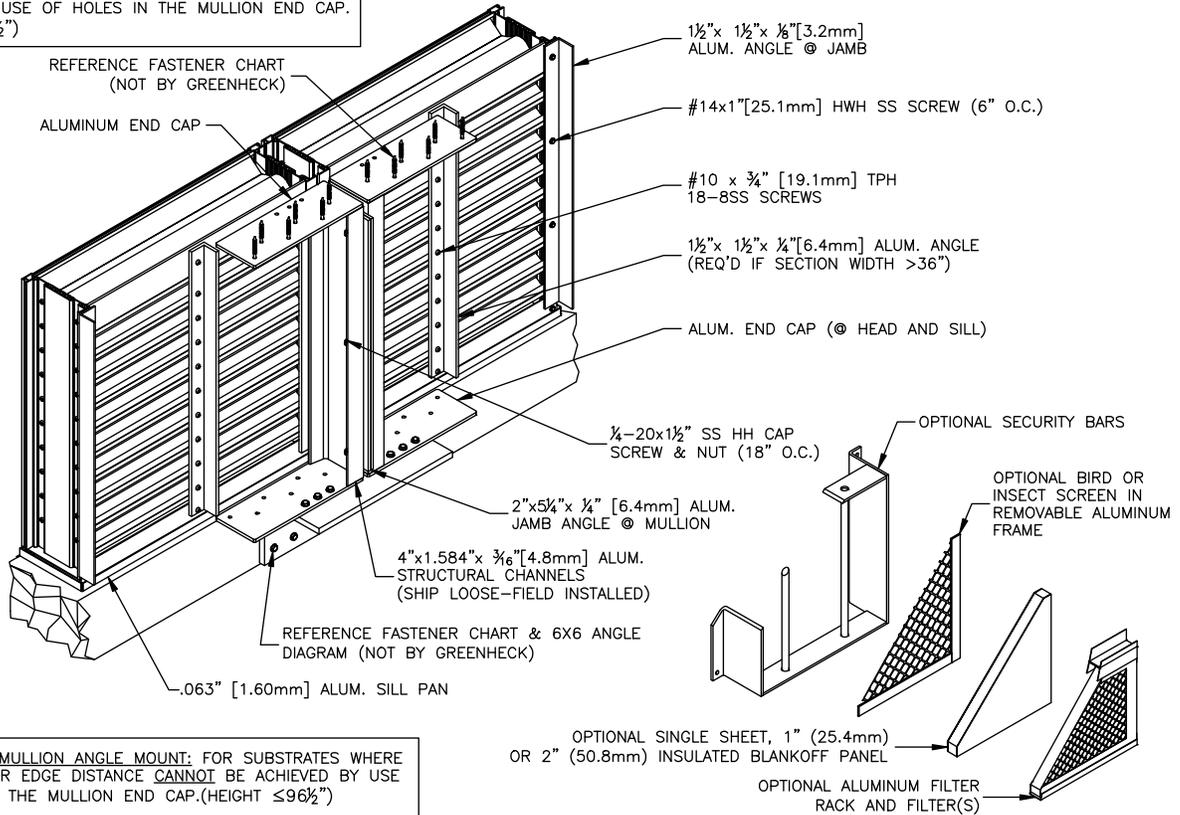
Florida Product Approval No: FL10088

Miami-Dade NOA No.: 10-0921.10

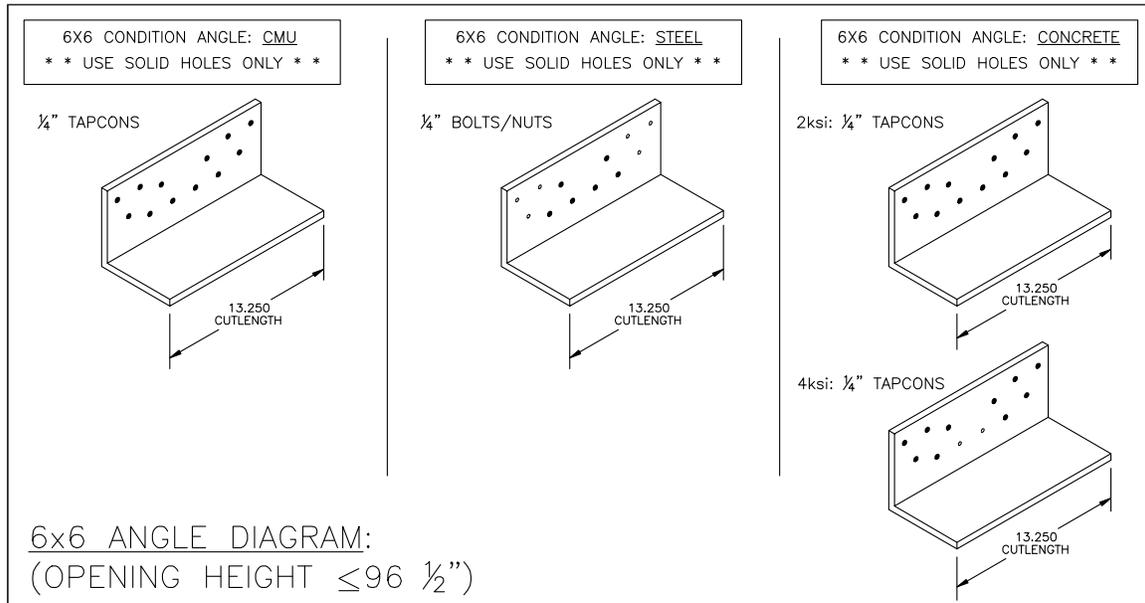
Maximum Wind-load: 150 PSF

Structure Depth		
<u>CMU Substrate</u>	<u>Concrete Substrate</u>	<u>Steel Stud / Structural Steel Substrate</u>
<ul style="list-style-type: none"> <li>• Min. structure depth 6.866 in.</li> <li>• Max. structure depth 12.275 in.</li> </ul>	<ul style="list-style-type: none"> <li>• Min. structure depth 6.866 in.</li> <li>• Max. structure depth infinite</li> </ul>	<ul style="list-style-type: none"> <li>• Min. structure depth 5.866 in.</li> <li>• Max. structure depth infinite</li> </ul>

HEAD DETAIL: MULLION DIRECT MOUNT; FOR SUBSTRATES WHERE MINIMUM FASTENER EDGE DISTANCE CAN BE ACHIEVED BY USE OF HOLES IN THE MULLION END CAP. (HEIGHT  $\leq 96 \frac{1}{2}$ )



SILL DETAIL: MULLION ANGLE MOUNT; FOR SUBSTRATES WHERE MIN. FASTENER EDGE DISTANCE CANNOT BE ACHIEVED BY USE OF HOLES IN THE MULLION END CAP. (HEIGHT  $\leq 96 \frac{1}{2}$ )



# Installation Instructions

# EHH-601D

## Channel Installation

Florida Product Approval No: FL10088

## Multiple Sections

Miami-Dade NOA No.: 10-0921.10

Height > 96 1/2" ≤ 144 1/2"

Maximum Wind-load: 150 PSF

### Structure Depth

#### CMU Substrate

- Min. structure depth 6.866 in.
- Max. structure depth 15.000 in.

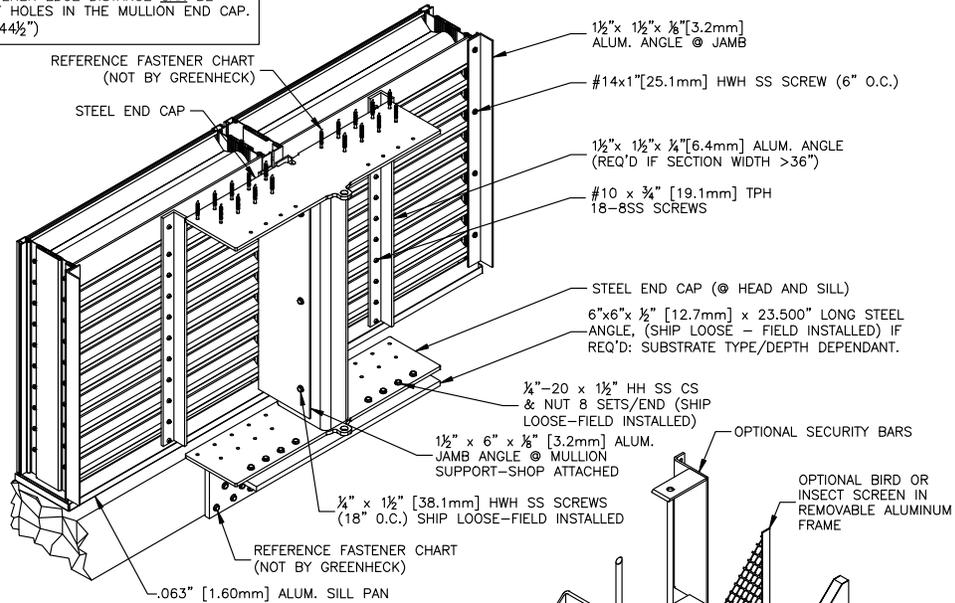
#### Concrete Substrate

- Min. structure depth 6.866 in.
- Max. structure depth infinite

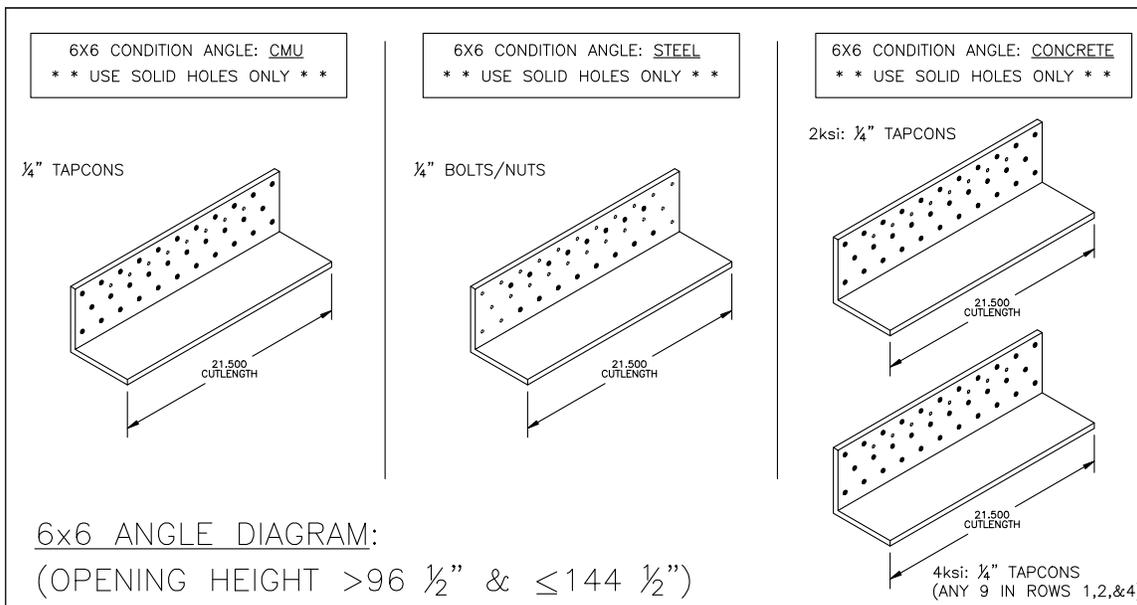
#### Steel Stud / Structural Steel Substrate

- Min. structure depth 5.866 in.
- Max. structure depth infinite

HEAD DETAIL: MULLION DIRECT MOUNT: FOR SUBSTRATES WHERE MINIMUM FASTENER EDGE DISTANCE CAN BE ACHIEVED BY USE OF HOLES IN THE MULLION END CAP. (HEIGHT >96 1/2" & ≤144 1/2")



SILL DETAIL: MULLION ANGLE MOUNT: FOR SUBSTRATES WHERE MIN. FASTENER EDGE DISTANCE CANNOT BE ACHIEVED BY USE OF HOLES IN THE MULLION END CAP. (HT >96 1/2" & ≤144 1/2")



EHH-601D Channel Installation with Damper IOM  
June 2011, Rev. 1  
Copyright © 2011 Greenheck Fan Corporation

## Flushometer ADA Toilet, 1.28GPF when used with High Efficiency Flushometer Valve

### FEATURES

- Floor-mounted
- ADA compliant
- Elongated front bowl
- Optional SanaGloss® ceramic glaze - SanaGloss glaze prevents debris, mold and bacteria from sticking to ceramic surfaces, leading to fewer chemicals and less water in cleaning.
- 10"-12" rough-in

### MODELS

- CT705ELNG  
Commercial ADA compliant, floor-mounted toilet with SanaGloss ceramic glaze
- CT705ELN  
Commercial ADA compliant floor-mounted toilet

### ADDITIONAL ITEMS (sold separately)

- SC534 seat
- SC134 seat

EcoPower® FLUSH VALVES			
	Manual	DC Valves	AC Valves
TET3LN32#SS	TMT1LN32#CP	TET3DNS-32	TETANSR-32
TET3GN32#SS		TET2DNS-32	TET2ANS-32
TET2LN32#SS			
TET2GN32#SS			
TET1LN32#CP			
TET6LN32#CP			
TET1GNC-32			
TET6GNC-32			

### COLORS/FINISHES

- Standard
  - #01 Cotton
  - #03 Bone (not available in SanaGloss)
  - #12 Sedona Beige (not available in SanaGloss)

### PRODUCT SPECIFICATION

The floor-mounted, ADA compliant, low consumption siphon jet flushing toilet shall be 1.28GPF/4.8LPF when paired with a 1.28GPF flushometer valve and 1.6GPF/6.0LPF when paired with 1.6GPF/6.0LPF flushometer valve. Toilet shall be elongated front bowl and SanaGloss ceramic glaze (CT705ELNG). Toilet shall be TOTO Model CT705ELN\_\_\_\_\_.



**SanaGloss**

### CODES/STANDARDS

- Meets and exceeds ASME A112.19.2/CSA B45.1, ASME A112.19.14,
- Certifications: IAPMO(cUPC), State of Massachusetts, City of Los Angeles, and others
- Code compliance: UPC, IPC, NSPC, NPC Canada, and others
- ADA compliant



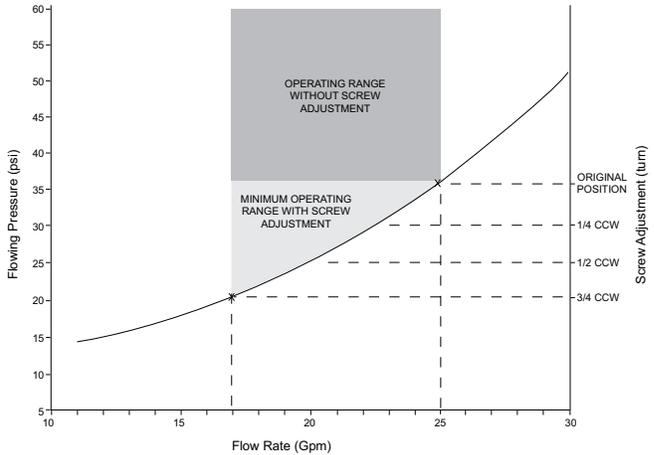
# CT705ELN(G)

## Flushometer ADA Toilet, 1.28GPF when used with High Efficiency 1.28GPF Flushometer Valve)

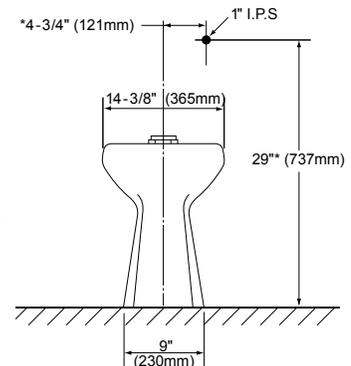
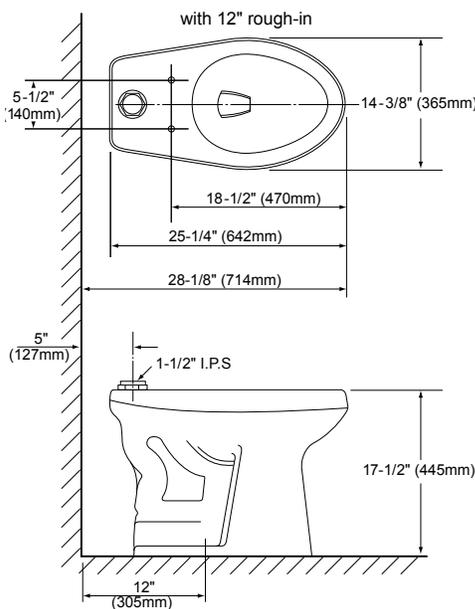
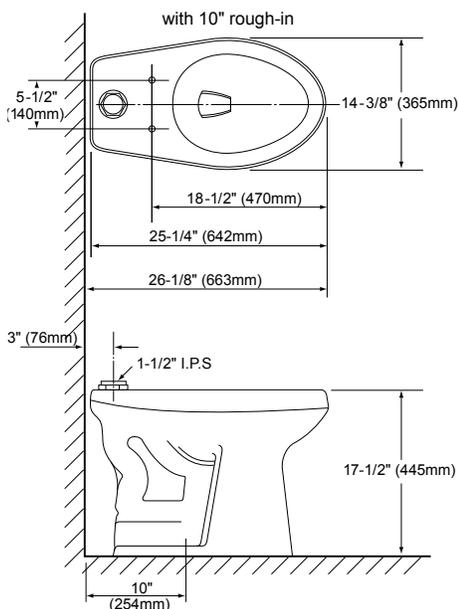
### SPECIFICATIONS

- Water Use 1.28GPF/4.8LPF
- Flush System Siphon jet flushing action
- Min. Water Pressure 35 psi (flowing)
- Min. Flow Rate 23 GPM
- Water Surface 10-3/4" x 9-1/4"
- Trap Diameter 1-7/8"
- Rough-in 12", or 10"
- Trap Seal 2-3/8"
- Warranty One Year Limited Warranty
- Material Vitreous china
- Shipping Weight CT705ELN(G) - 56.5lbs
- Shipping Dimensions CT705ELN(G)  
26-1/2" L x 9-1/2" W<sup>1</sup> x 16-1/4" W<sup>2</sup> x 19-1/2" H

### INSTALLATION NOTES



Water pressures over 80 psi are not recommended for most plumbing fixtures.



**TOTO**

These dimensions and specifications are subject to change without notice



# Technical Data

# TrimLine™ SURFACE-MOUNTED ADA DRYER

# B-7120 B-7128

### Specify Voltage Required:

- B-7120 Dryer with White Painted Cover
- B-7128 Dryer with Stainless Steel Cover

### Specify Voltage Required:

- 115V AC, 15 Amp, 1725 Watts, 50/60 Hz, Single Phase, cULus Listed.
- 208-240V AC, 6.8-7.8 Amp, 1400-1900 Watts, 50/60 Hz, Single Phase, cULus Listed, VDE and CCC approved, CE marked.

Specify model number followed by voltage required. Example: B-7128 115V for 115-volt Stainless steel cover hand dryer.

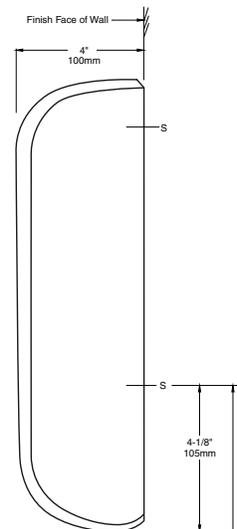
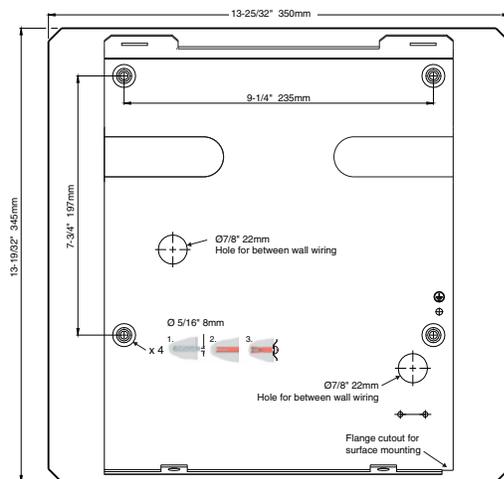


### \*RECOMMENDED MOUNTING HEIGHTS

Children's Washrooms, ages 3-4	36" (915mm)
Children's Washrooms, ages 5-8	40" (1015mm)
Children's Washrooms, ages 9-12	44" (1120mm)
Universal Design	48" (1219mm)



\*Bottom screw hole of mounting base to finish face of floor



See Table for Recommended Mounting Height Off Floor

### MATERIALS:

**Cover** — 18-gauge, Type-304 stainless steel with #4 satin-finish vertical grain (B-7128) or 22-gauge mild steel zinc plated with high-gloss white epoxy paint finish (B-7120) covers with UL 94-5VA black plastic trim and side panels. Cover equipped with uniquely designed dual air outlets. Air-inlet is equipped with vandal-resistant grille. Cover projects no more than 4" (100mm) from wall and is secured to mounting base with two vandal-resistant, recessed hex screws.

**Mounting Base** — 20-gauge (1.5mm) plated steel with four 0.236" (6mm) diameter mounting holes.

**Motor** — Universal, 1/7 hp, 8000 rpm, on resilient mounting. Sealed ball bearing at drive-shaft end and self-lubricating sleeve bearing at nondrive end. Equipped with automatic thermal-overload switch.

**Fans** — Two balanced, double-inlet centrifugal fans are mounted on motor shaft; directs airflow over heating element at 71 cfm.

**Heating Element** — Two coiled nickel-chrome heating elements are mounted in mica frame and protected by automatic thermal-overload switches. Heating elements, heat air without hot spots — inaccessible to vandals.

**Electronic Control** — Infrared sensor automatically turns dryer on when hands are held under air-outlet opening and across path of sensor. Remove hands from path of sensor and dryer stops. Electronic sensor has automatic shutoff approximately 1-1/2 minutes after dryer turns on if an inanimate object is placed across air-outlet opening. After inanimate object is removed, electronic sensor automatically resets itself and dryer operates normally.

continued . . .

## OPERATION:

No-touch operation: electronic sensor automatically turns dryer on when hands are held under air-outlet opening and across path of sensor. Dual air outlets provide a swirling circulation of airflow for comfortable hand drying. Drying time less than 25 seconds. Remove hands from path of sensor and dryer stops. Dryer operates only when actually drying hands, which saves energy and operating costs. Electronic sensor will automatically shut dryer off 1-1/2 minutes after dryer turns on if an inanimate object, such as tape or chewing gum, is placed across air-outlet opening. After inanimate object is removed, electronic sensor automatically resets itself and dryer operates normally.

**10-Year Limited Warranty** — In addition to Bobrick's one-year guarantee, Bobrick extends a limited 10-year warranty from the date of purchase on all parts for Model B-7120 and B-7128 hand dryer, except motor brushes, to the original owner of the installed unit against defects in factory workmanship or material under normal use and service. Motor brushes are warranted for three years from date of purchase. This warranty is limited to the repair or exchange of defective parts at the option of Bobrick. See Installation Instruction Sheet, Form No. 712-69, for full details.

## INSTALLATION:

**Wall preparation:** Locate mounting base on wall using template provided. For brick, stone, and concrete walls drill four 0.315" (8mm) holes to suit provided wall plugs 0.315" (8mm) x 1-1/4" (45mm) and screws # 10 (4.8mm) x 2" (50mm) long. See template for wall plug and screw installation details. For plaster or dry wall construction, provide concealed backing to comply with local building codes and secure with four #10 (4.8) round-head sheet-metal screws or 3/16" (5mm) toggle bolts (not furnished). Provide electrical service from nearest distribution panel to dryer mounting base in conformance with local electrical codes.

### Wiring Instructions:

1. For 115-Volt Dryers — Connect ground wire to ground terminal marked  $\equiv$ , the black or *hot* wire to terminal marked *L1*, and neutral or white wire to terminal marked *N*.
2. For 208–240-Volt Dryers — Connect ground wire to ground terminal marked  $\equiv$  and the 208-240-volt wires to terminal marked *L1* and *L2*.

**Notes:** Electronic sensor in Automatic dryers will pick up movement within 6" (150mm) of the air-outlet opening. Use caution when choosing location for Automatic dryers in confined areas. Consider proximity to doorways and other traffic areas.

Bobrick automatic hand dryers should be installed at least 15" (380mm) above any projection or horizontal surface which may interfere with the operation of the automatic sensor.

For installation instructions that include step-by-step installation procedures and details of electrical service connections, see Form No. 712-69, which is packed with each shipment. This form is also available in advance upon request.

## SPECIFICATION:

Surface-mounted hand dryer shall have either 18-gauge, Type-304 stainless steel with #4 satin-finish vertical grain (B-7128) or 22-gauge mild steel zinc plated with high-gloss white epoxy paint finish (B-7120) covers with UL 94-5VA black plastic trim. Slim profile cover shall project no more than 4" (100mm) from the finished face of wall to comply with barrier-free accessibility guidelines (including ADAAG in the U.S.A.). Unit shall be equipped with uniquely designed (patent pending) dual air outlets that provide a swirling circulation of airflow for (less than 25 seconds) hand dry. Motor shall be 1/7 hp, universal type on resilient mounting with sealed ball bearing at drive-shaft end and self-lubricating sleeve bearing at nondrive end; equipped with automatic thermal-overload switch. Heating elements shall be located on outlet side of fan, shall heat air without hot spots, be inaccessible to vandals, and protected by an automatic thermal-overload switch. Electronic sensor shall automatically turn dryer on when hands are held under air-outlet opening and across path of sensor. Dryer shall turn off automatically when hands are removed. Sensor shall automatically shut dryer off approximately 1-1/2 minutes after dryer turns on if an inanimate object is placed across air-outlet opening. After inanimate object is removed, electronic sensor shall automatically reset itself and dryer shall operate normally. Unit shall be cULus Listed, and/or VDE approved, CE marked. Unit shall comply with EU Directive "Restriction of Hazardous Substance" (ROHS) requirements for non-use of certain hazardous substances in the production of electronic products. Unit shall be protected by a limited 10-year warranty on all parts except motor brushes. Motor brushes shall be warranted for three years from date of purchase.

**TrimLine™ Surface-Mounted ADA Hand Dryer shall be Model B-7120 and B-7128 of Bobrick Washroom Equipment, Inc., Clifton Park, New York; Jackson, Tennessee; Los Angeles, California; Bobrick Washroom Equipment Company, Scarborough, Ontario; Bobrick Washroom Equipment Pty. Ltd., Australia; and Bobrick Washroom Equipment Limited, United Kingdom.**



# Technical Data

# SECADOR DE MANOS ADA SERIE TRIMLINE PARA MONTAR EN LA PARED

# B-7120 B-7128

### Especificar el Voltaje Requerido:

- Secador B-7120 Dryer con Cubierta Pintada en Blanco
- Secador B-7128 Dryer con Cubierta de Acero Inoxidable

### Especificar el Voltaje Requerido:

- 115 V de CA, 15 Amp, 1725 vatios, 50/60 Hz, monofásicos, clasificado UL.
- 208-240 V de CA, 6.8-7.8 Amp, 1400-1900 vatios, 50/60 Hz, monofásicos, clasificado UL, aprobado por VDE y CCC, marcado CE.

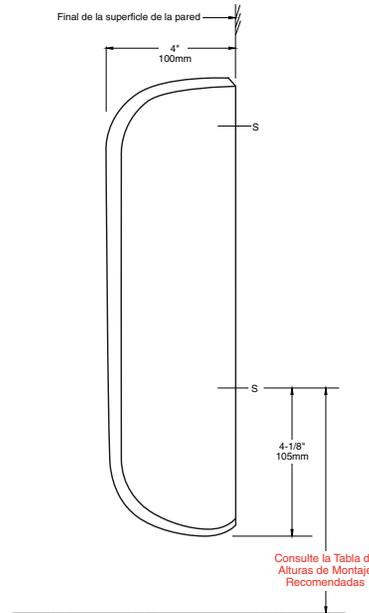
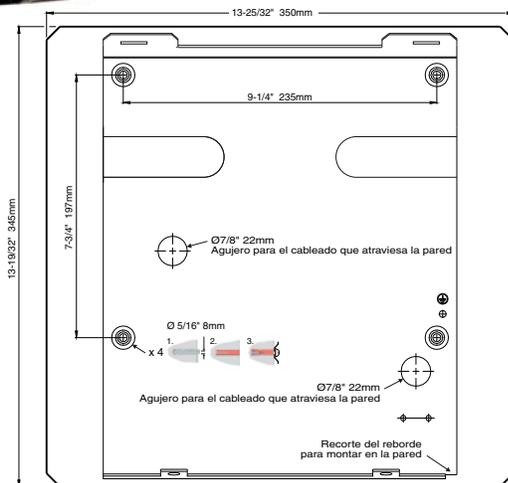
Especificar el número de modelo seguido por el voltaje requerido. Por ejemplo: B-7128 de 115 V para secador de manos con cubierta de acero inoxidable de 115 vatios.



### \*Alturas de Montaje Recomendadas

Aseos para niños, de 3 a 4 años	36" (915 mm)
Aseos para niños, de 5 a 8 años	40" (1015 mm)
Aseos para niños, de 9 a 12 años	44" (1120 mm)
Diseño Universal	48" (1219 mm)

\*Desde el agujero del tornillo inferior de la base de montaje hasta la superficie del suelo



### MATERIALES:

**Cubierta:** Grosor 18-gauge, tipo 304 acero inoxidable con terminación satinada y grano vertical o acero templado 22-gauge laminado en cinc con alto brillo y terminación de pintura epóxica blanca con un reborde de plástico negro UL 94-5 VA. Cubierta equipada con salidas de aire dobles de diseño exclusivo que proporcionan una circulación rotatoria del aire en dirección a la zona de secado de las manos. La entrada de aire está equipada con una rejilla resistente al vandalismo. La cubierta sobresale no más de 4" (100 mm) de la pared y está asegurada a la base de montaje con dos tornillos hexagonales empotrados, resistentes al vandalismo.

**Base De Montaje:** Acero laminado de espesor 20 (1.5 mm) con cuatro agujeros para montaje de un diámetro de 0.236" (6 mm).

**Motor:** Universal, 1/7 caballos de fuerza, 8000 rpm, sobre un montaje resistente. Cojinete de bolas sellado en el lado del eje motor y un cojinete listo autolubricado en el lado opuesto. Equipado con un interruptor de sobrecarga térmica automático.

**Ventiladores:** Dos ventiladores balanceados y centrífugos de doble entrada montados sobre el eje del motor, que dirigen el flujo de aire sobre el elemento de calefacción a 71 pies cúbicos/minuto (2,010 litros/hora).

**Elemento de Calefacción:** Dos elementos de calefacción de cromo y níquel bobinados montados en un marco de mica y protegidos por interruptores de sobrecarga térmica automáticos. Los elementos de calefacción calientan el aire sin puntos calientes y su ubicación los hace inaccesibles en caso de vandalismo.

**Control Electrónico:** El sensor infrarrojo enciende el secador automáticamente cuando se sitúan las manos debajo de la salida de aire y en el recorrido del sensor. Al retirar las manos del recorrido del sensor, el secador se detiene. El sensor se apaga automáticamente aproximadamente 1 minuto y medio después de que el secador se enciende si un objeto inanimado se coloca a través de la salida de aire. Luego de quitar el objeto inanimado, el sensor electrónico se reinicia automáticamente y el secador opera con normalidad.

continued . . .

## OPERACIÓN:

Operación sin contacto: El sensor electrónico enciende automáticamente el secador cuando las manos se sitúan debajo de la salida de aire y en el recorrido del sensor. Las salidas de aire dobles proporcionan una circulación rotatoria del flujo de aire que permite secarse las manos con mayor comodidad y en menos tiempo (en menos de 25 segundos). Al retirar las manos del recorrido del sensor, el secador se detiene. El secador opera únicamente cuando alguien se está secando las manos, lo cual ahorra costos de energía y operación. El sensor electrónico apaga el secador de forma automática 1 minuto y medio después de que el secador se encienda si un objeto inanimado, como una cinta o goma de mascar, se coloca a través de la salida de aire. Luego de quitar el objeto inanimado, el sensor electrónico se reinicia automáticamente y el secador opera con normalidad.

**Garantía Limitada por 10 Años:** Además de la garantía de un año de Bobrick, se extiende una garantía limitada de 10 años a partir de la fecha de compra para el secador de manos Modelo B-7120 y B-7128, sobre todas las piezas, excepto las escobillas del motor, para el propietario original de la unidad instalada contra los defectos de mano de obra en fábrica o de materiales, bajo uso y servicio normales. Las escobillas del motor están garantizadas por tres años a partir de la fecha de compra. Esta garantía está limitada a la reparación o cambio de piezas defectuosas a la discreción de Bobrick. Consulte la Hoja de Instrucciones de Instalación, Form No. 712-69, para obtener información detallada al respecto.

## INSTALACIÓN:

**Preparación de la Pared:** Colocar la base de montaje sobre la pared utilizando el patrón provisto. En el caso de paredes de ladrillo, piedra y hormigón, perforar cuatro agujeros de 0.315" (8 mm) para acomodar las conexiones de pared provistas de 0.315" (8 mm) x 1-1/4" (45 mm) y tornillos # 10 (4.8 mm) x 2" (50 mm) de longitud. Consulte el patrón para obtener información detallada sobre el montaje en pared y la instalación de los tornillos. En construcciones secas o escayoladas, usar una placa interna que cumpla con los códigos de construcción locales y fijar con cuatro tornillos tamaño #10 (4.8) de cabeza redonda para chapa, o usar pernos fijadores de palanca 3/16" (5 mm) (no provistos). Proporcionar mantenimiento eléctrico desde el tablero de distribución más cercano hasta la base de montaje del secador en conformidad con los códigos eléctricos locales.

### Instrucciones de Cableado:

1. Para secadores de 115 voltios: Conectar el cable a tierra al terminal de conexión a tierra con el signo  $\equiv$ , el cable negro o *con corriente* al terminal *L1* y el cable blanco o neutro al terminal *N*.
2. Para secadores de 208–240 voltios: Conectar el cable a tierra al terminal de conexión a tierra con el signo  $\equiv$  y los cables de 208-240 voltios al terminal *L1* y *L2*.

**Notas:** El sensor electrónico en los secadores automáticos detectará movimiento a 6" (150 mm) de la salida de aire. Tomar precauciones al elegir la ubicación de secadores automáticos en áreas reducidas. Considerar la proximidad a las puertas y otras áreas de movimiento.

Los secadores de manos automáticos Bobrick deben instalarse por lo menos a 15" (380 mm) sobre toda proyección o superficie horizontal que pueda interferir con la operación del sensor automático.

Para obtener instrucciones de instalación que abarcan los procedimientos de instalación paso a paso y los detalles sobre las conexiones del servicio eléctrico, véase el Form. No. 712-69, que se incluye con cada envío. Además, este formulario está disponible si lo solicita con anticipación.

## ESPECIFICACIÓN:

Secador de manos ADA Serie TrimLine para montar en la pared cuenta con una cubierta de acero templado laminado en cinc de alto brillo, con un grosor de 18-gauge, tipo-304, terminación de pintura epóxica blanca o una cubierta de acero inoxidable con terminación satinada montada en un reborde de plástico negro UL94-5VA. La cubierta de perfil delgado no debe sobresalir más de 4" (100 mm) del final de la superficie de la pared, según las normas de accesibilidad para minusválidos (que incluyen las normas ADAAG en EE. UU.) La unidad está equipada con salidas de aire duales exclusivamente diseñadas (patente en trámite) que proporcionan una circulación rotatoria del flujo de aire para secar las manos en menos de 25 segundos. El motor tiene una potencia de 1/7 caballos de fuerza, tipo universal, sobre un montaje resistente con cojinete de bolas sellado en el lado del eje motor y un cojinete liso autolubricado en el lado opuesto. Además, está equipado con un interruptor de sobrecarga térmica automático. Los elementos de calefacción se ubican en la salida del ventilador y calientan el aire sin puntos calientes. Su ubicación impide que sean dañados en caso de vandalismo y están protegidos por un interruptor de sobrecarga térmica automático. El sensor electrónico se enciende automáticamente cuando las manos se sitúan debajo de la salida de aire y en el recorrido del sensor. El secador se apaga automáticamente cuando se retiran las manos. El sensor apaga el secador de forma automática aproximadamente 1 minuto y medio después de que el secador se encienda si un objeto inanimado se coloca a través de la salida de aire. Luego de quitar el objeto inanimado, el sensor electrónico se reinicia automáticamente y el secador opera con normalidad. La unidad está clasificada UL, y/ o aprobada por VDE, marcada CE. La unidad cumple con los requisitos de "Restricción del Uso de Sustancias Peligrosas" (ROHS, por sus siglas en inglés) de la Directiva de la Unión Europea, que prohíbe el uso de determinadas sustancias peligrosas en la fabricación de productos electrónicos. La unidad está protegida por una garantía limitada de -10 años sobre todas las piezas, excepto las escobillas del motor. Las escobillas del motor están garantizadas por tres años a partir de la fecha de compra. Se proporcionará el manual de las piezas y de servicio del fabricante al gerente/propietario de la instalación a pedido.

**Secador de Manos ADA Serie TrimLine para Montar en la Pared es el Modelo B-7120 y B-7128 de Bobrick Washroom Equipment, Inc., Clifton Park, Nueva York; Jackson, Tennessee; Los Ángeles, California; Bobrick Washroom Equipment Company, Scarborough, Ontario; Bobrick Washroom Equipment Pty. Ltd., Australia; y Bobrick Washroom Equipment Limited, Reino Unido.**

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# **DIVISION 5**

## **PLAYGROUND & FITNESS EQUIPMENT**

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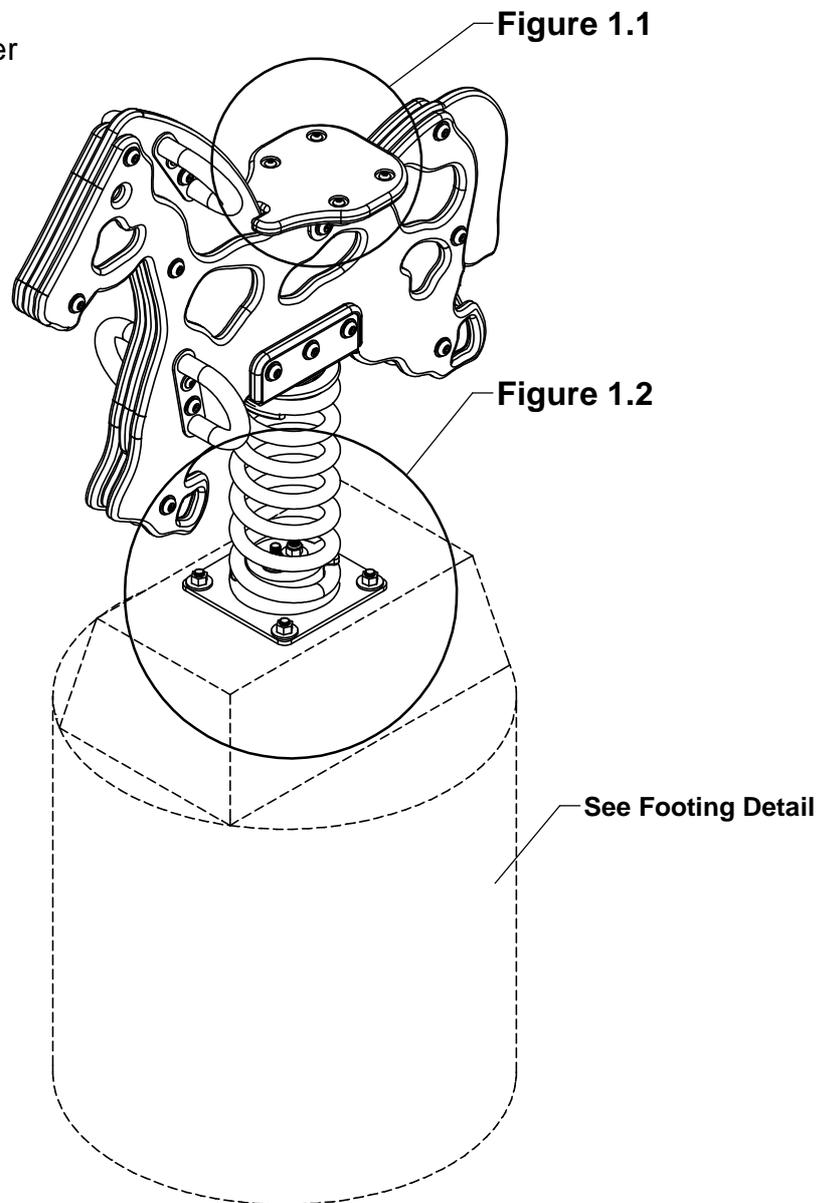
**IMPORTANT NOTES: Read First**

(A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) All bolt threads protruding beyond the nut must be cut and de-burred until end is smooth to the touch. Sharp edges and/or points of any kind must be eliminated. No more than two threads may be exposed beyond the end of the nut.

(C) Use appropriate compliant protective surfacing and adjust footing depths accordingly. See free publication - The Handbook for Public Playground Safety, Publication #325 at [www.CPSC.gov](http://www.CPSC.gov) for the surfacing appropriate for the fall height of the equipment or consult your surfacing supply representative.

**FIGURE 1**  
Paulie Pony Spring Rider

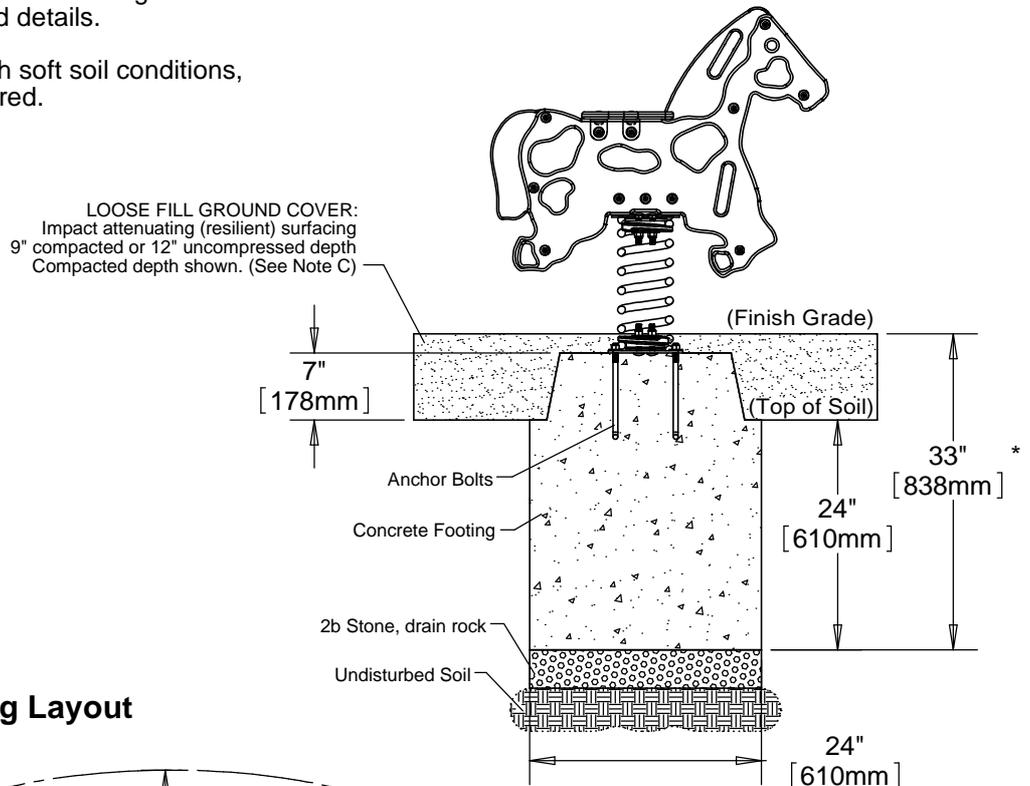


## Step 1

Dig a Ø24" footing hole. Refer to Footing Detail and Footing Layout for depth and details.

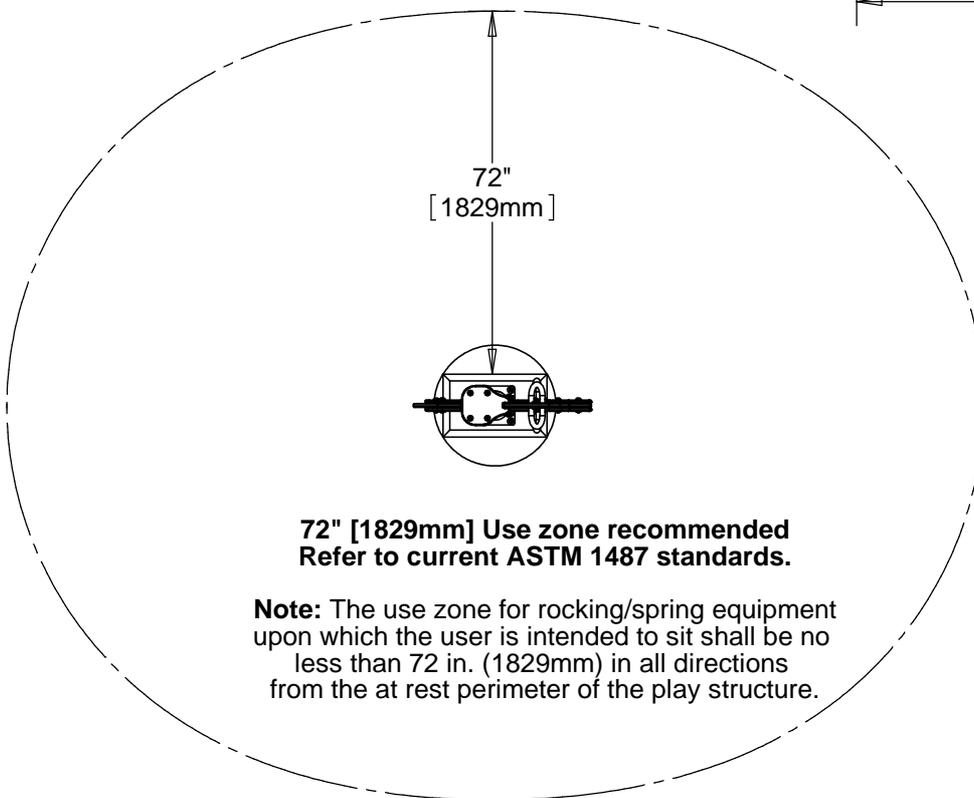
**IMPORTANT:** For areas with soft soil conditions, larger footings may be required.

**Footing Detail**



\* Footing depth must be adjusted to compensate for the depth/thickness requirements of selected safety surfacing. See Section 06.1 of the Installation Manual

**Top View - Footing Layout**



**72" [1829mm] Use zone recommended**  
**Refer to current ASTM 1487 standards.**

**Note:** The use zone for rocking/spring equipment upon which the user is intended to sit shall be no less than 72 in. (1829mm) in all directions from the at rest perimeter of the play structure.

## Step 2

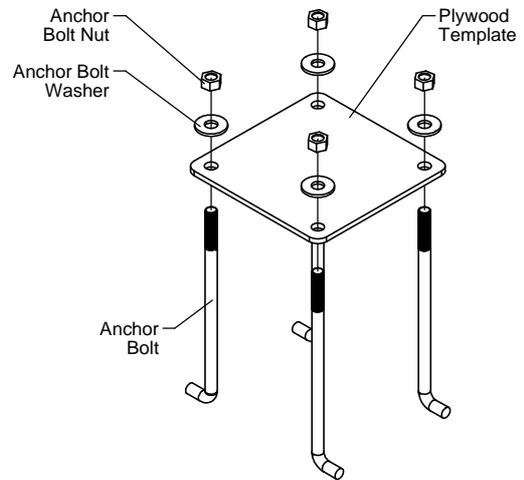
Use Bottom Mount Plate of Spring Rider as a template to create a plywood template for the placement of Anchor Bolts. (Plywood not supplied)

## Step 3

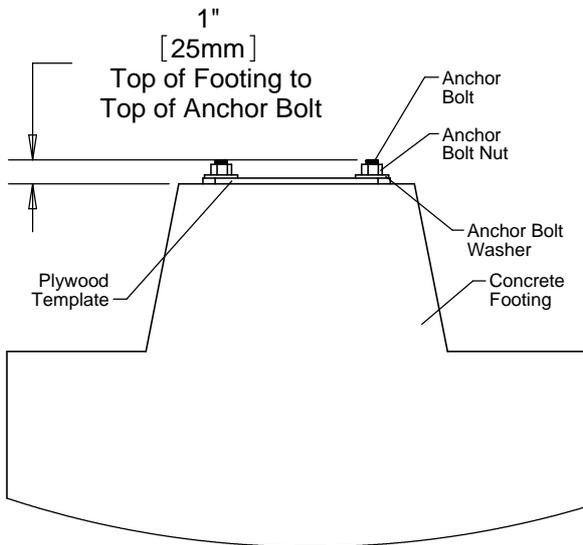
Attach Anchor Bolts to template as shown in Figure 2. Allow approximately 1" of thread to protrude from the concrete as shown in Figure 3.

## Step 4

Pour concrete footing and lay template on surface in a level position as shown in Figure 3. Force Anchor Bolts into concrete. Allow 72 hours to cure before proceeding to next step.



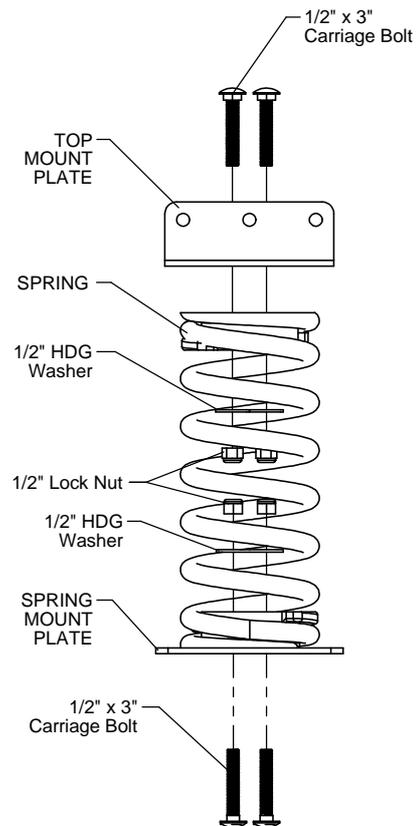
**FIGURE 2**



**FIGURE 3**

## Step 5 (Factory Assembled)

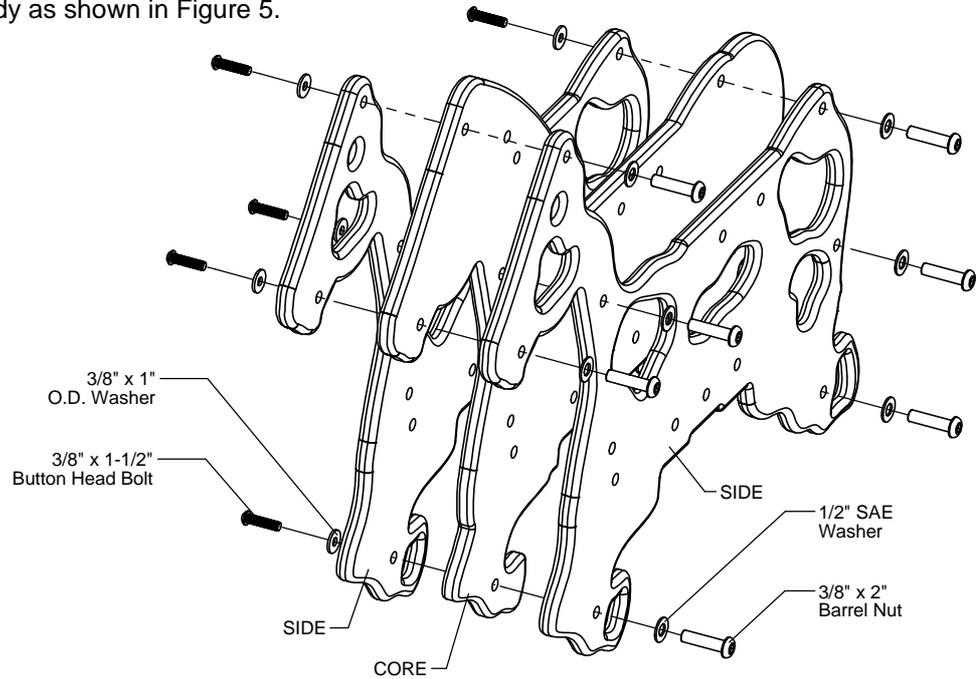
Attach Spring to Top and Bottom Mount Plates as shown in Figure 4. (See Note A)



**FIGURE 4**

## Step 6 (Factory Assembled)

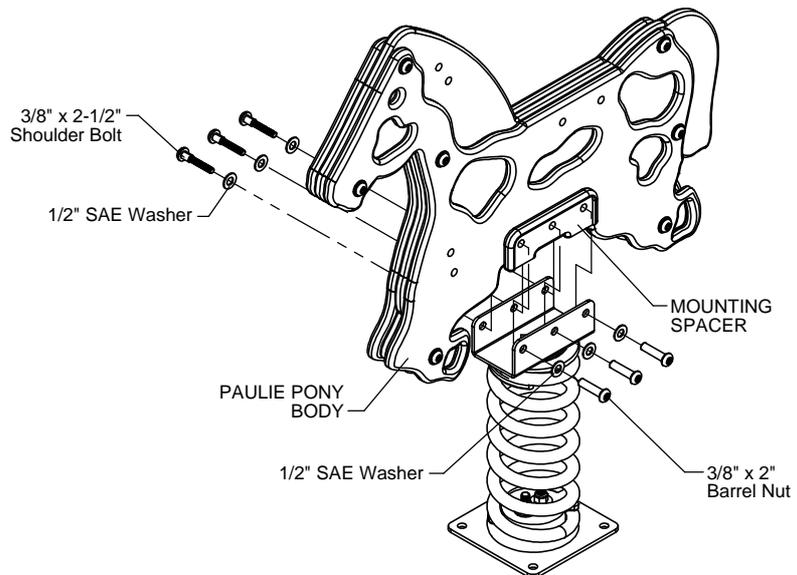
Assemble Paulie Pony Body as shown in Figure 5.  
(See Note A)



**FIGURE 5**

## Step 7 (Factory Assembled)

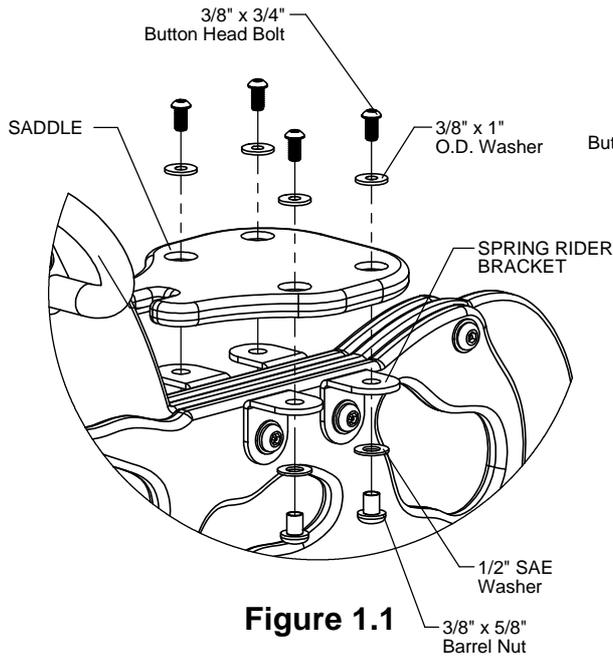
Attach Spring Assembly and Mounting Spacer to Paulie Pony Body as shown in Figure 6. (See Note A)



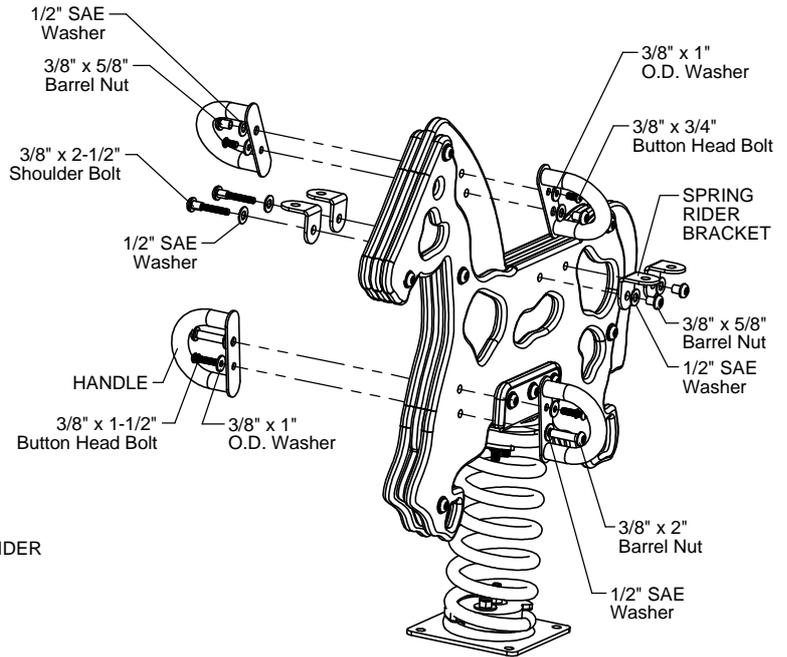
**FIGURE 6**

## Step 8

Attach Spring Rider Brackets and Handles to Paulie Pony Body as shown in Figure 7. (See Note A)



**Figure 1.1**



**FIGURE 7**

## Step 9

Attach Saddle to Spring Rider Brackets as shown in Figure 1.1. (See Note A)

## Step 10

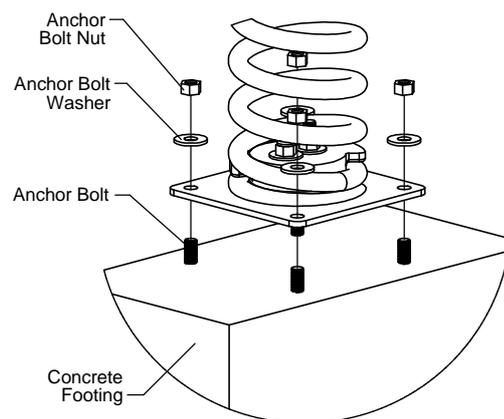
Attach Paulie Pony Spring Rider to Anchor Bolts as shown in Figure 1.2. (See Note A)

## Step 11

Fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" section of the Installation Manual. (See Note B)

## Step 12

Place appropriate compliant protective surfacing under and around Paulie Pony. (See Note C)



**Figure 1.2**

## Specifications

### PANELS:

Paulie Pony Body, Seat and Spacers shall be made from high-density 3/4" thick, hot extruded polyethylene sheet plastic specially formulated for optimum UV stability and color retention.

### PLAYGROUND EVENT SPRING:

Shall be 5-3/4" O.D. with a free height of 14". The Playground Event Spring has a multi-stage baked-on powder coat finish.

### SPRING MOUNT PUCK:

Shall be precision die-cast from high-strength aluminum alloy. The spring mount puck has a multi-stage baked-on powder coat finish.

### PAULIE PONY HANDLE:

Shall be 1.029" O.D. 14 gauge steel handle with 10 gauge steel mounting plates. Paulie Pony Handle shall have a multi-stage baked-on powder coat finish.

### BOTTOM SPRING MOUNT PLATE:

Shall be fabricated using 1/4" thick plate steel. The Bottom Spring Mount Plate has a multi-stage baked-on powder coat finish.

### TOP SPRING MOUNT PLATE:

Shall be fabricated using 3/16" thick plate steel. The Top Spring Mount Plate has a multi-stage baked-on powder coat finish.

### SPRING RIDER BRACKET:

Shall be fabricated using 3/16" thick plate steel. The Spring Rider Bracket has a multi-stage baked-on powder coat finish.

### HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

## Parts List

Part #	DESCRIPTION	QTY.
BE-4466	Spring Rider Bracket	4
EE-0114	Paulie Pony Saddle	1
FS-PC1387	Paulie Pony Handle	4
9103032-TR	Bolt Button Head 3/8" x 3/4"	6
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	2
9143112-TR	Bolt Shoulder 3/8" x 2-1/2" BH	2
9175393	Bolt Anchor 1/2" x 9-1/2" w/ Washer and Nut	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	8
9345002	Washer Flat SAE 1/2"	12
9443022-TR	Nut Barrel 3/8" x 5/8" BH	8
9443092-TR	Nut Barrel 3/8" x 2" BH	2

## Assembled Parts List

Part #	DESCRIPTION	QTY.
AE-4533	Single Spring Bottom Mount Plate	1
BE-4515	Single Spring Top Mount Plate	1
EE-0112	Paulie Pony Face Panel	2
EE-0113	Paulie Pony Core Panel	1
EE-4941	Spring Rider Mounting Spacer	2
FS-PC1341-SP	Toddler Toad Spring Weldment	1
GE-4514	Spring Mount Puck	2
9103072-TR	Bolt Button Head 3/8" x 1-1/2"	7
9115132	Bolt Carriage 1/2" x 3"	4
9143112-TR	Bolt Shoulder 3/8" x 2-1/2" BH	3
9315003	Washer Cut 1/2" HDG	4
9333002	Washer Flat 3/8" x 1" O.D. x .100" thick	7
9345002	Washer Flat SAE 1/2"	13
9415132	Nut Lock 1/2"	4
9443092-TR	Nut Barrel 3/8" x 2" BH	10

## Maintenance

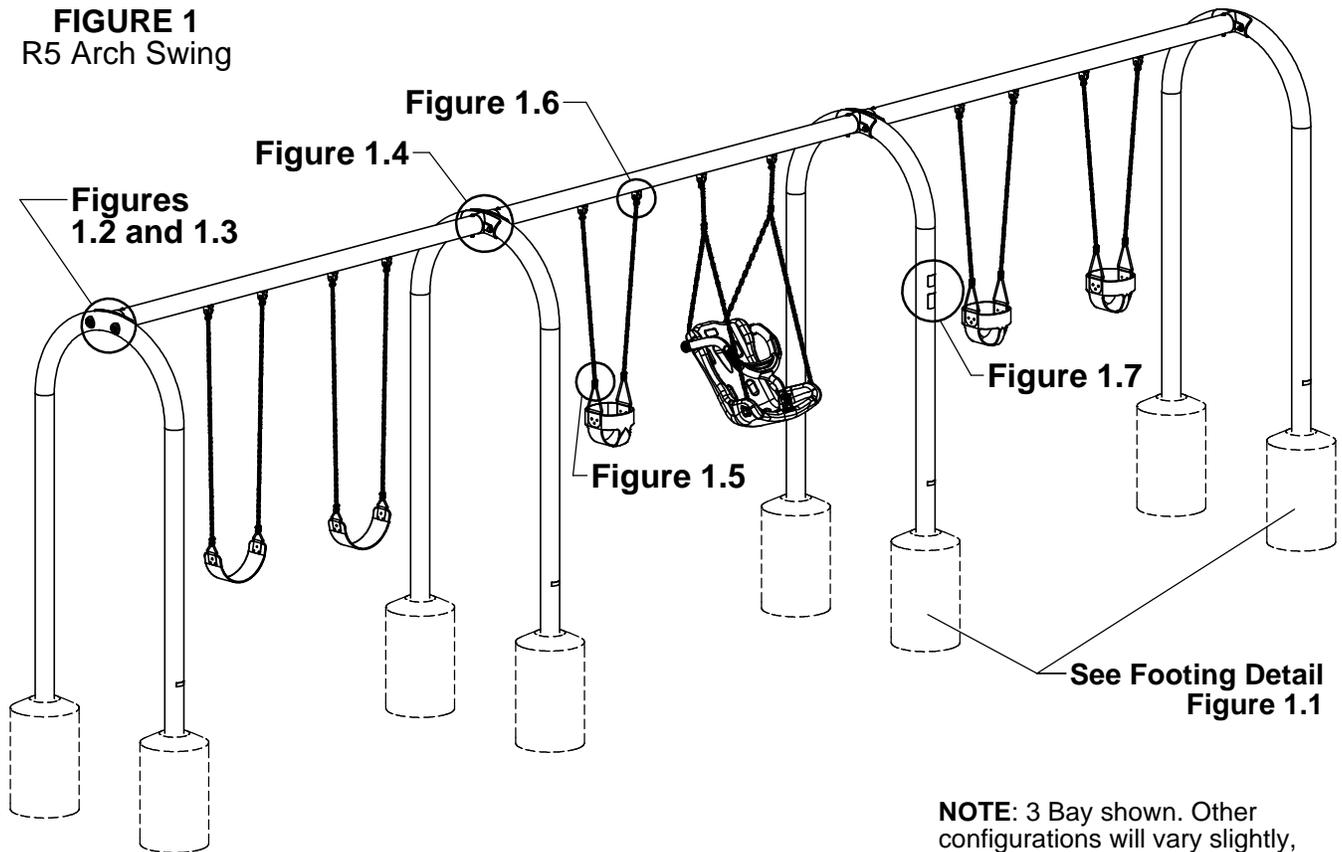
Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



**IMPORTANT NOTES: Read First**

- (A) Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.
- (B) Do not pour concrete until the equipment is completely assembled, leveled and plumbed. Concrete must be allowed to cure completely before using the equipment (at least 72 hours).
- (C) **NOTE:** Full bucket seat swings should be suspended from structures that are separate from those for other swings, or at least suspended from a separated bay of the same structure. According to the Handbook for Public Playground Safety, Publication #325 at [www.CPSC.gov](http://www.CPSC.gov).
- (D) An appropriate energy absorbing safety surface is required under and around all playground equipment. Loose fill protective surfacing is shown only as an example for the purpose of this assembly instruction. Other surfacing material may vary in thickness and/or compression depths. See free publication - The Handbook for Public Playground Safety, Publication #325 at [www.cpsc.gov](http://www.cpsc.gov) for the surfacing appropriate for the fall height of the equipment or consult your surfacing supply representative.
- (E) For ADA and Bucket Seat Combination bays the ADA Seat goes in the wider space measuring 26" [660mm] from center to center.
- (F) Chain length should be adjusted (trimmed) so that the underside of the belt swing is no less than 12" (Bucket Seat 24") from Ground Cover. See recommended swing seat height view on Page 2.
- (G) **Important:** Use Arch Swing Casting stamped Belt for all To-Fro swings.
- (H) If more than two threads of a bolt are exposed beyond the end of the nut then the bolt must be cut down to two or less threads and de-burred until the end is smooth to the touch.

**FIGURE 1**  
R5 Arch Swing



**NOTE:** 3 Bay shown. Other configurations will vary slightly, but does not affect the assembly.

## Step 1

Refer to Footing Layout and mark footing hole locations. Dig  $\varnothing$  18" footing holes. Refer to Footing Detail for depth and details.

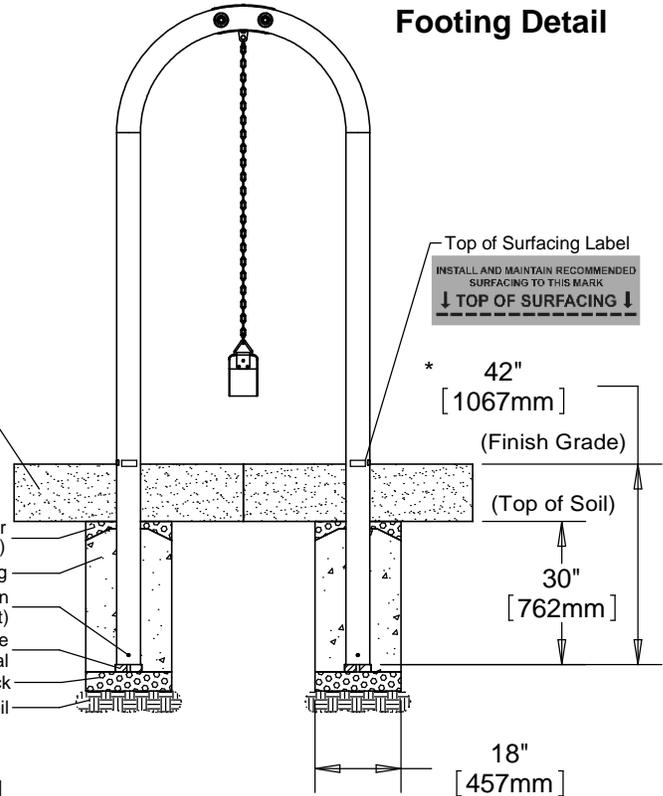
**IMPORTANT:** For areas with soft soil conditions, larger footings may be required.

\* Footing depth must be adjusted to compensate for the depth/thickness requirements of selected safety surfacing. See Section 06.1 of the Installation Manual.

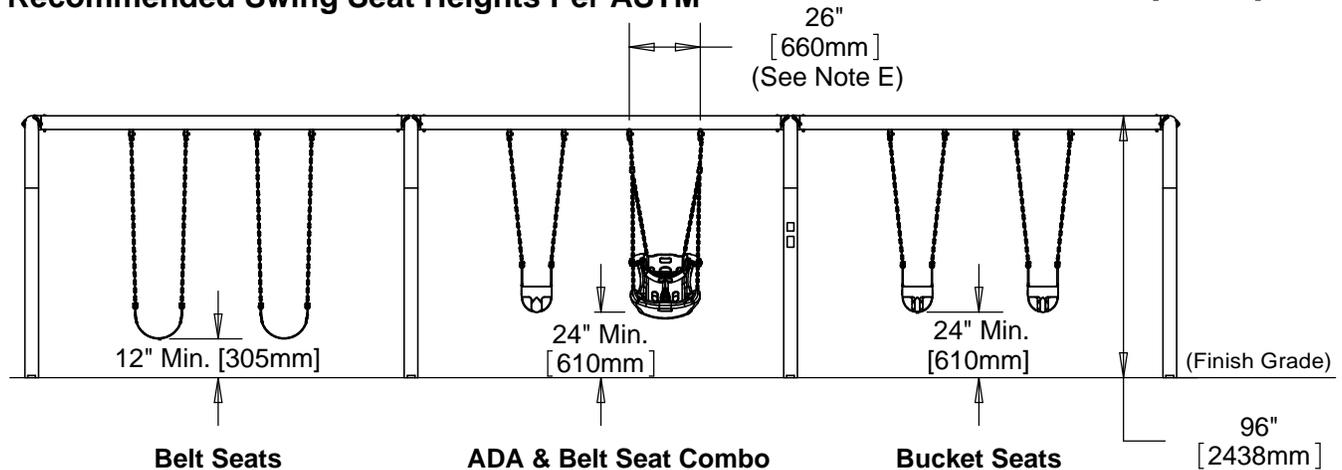
LOOSE FILL SURFACING MATERIAL SHOWN:  
9" compressed or 12" uncompressed depth.  
Compressed depth shown. (See Note D)

Optional Filter Fabric over  
Pea Gravel (for drainage)  
Concrete Footing  
Footing Pin  
(Hex Bolt)  
Blocking, see  
Installers Manual  
2b Stone, Drain Rock  
Undisturbed Soil

### Footing Detail

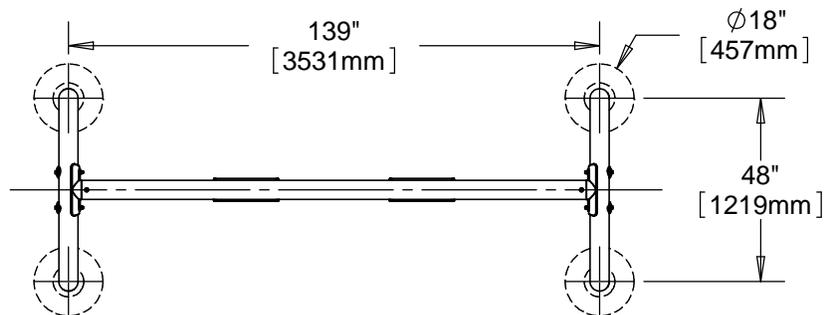


### Recommended Swing Seat Heights Per ASTM



### Top View - Footing Layout

Note: Footing distance is the same for additional bays.

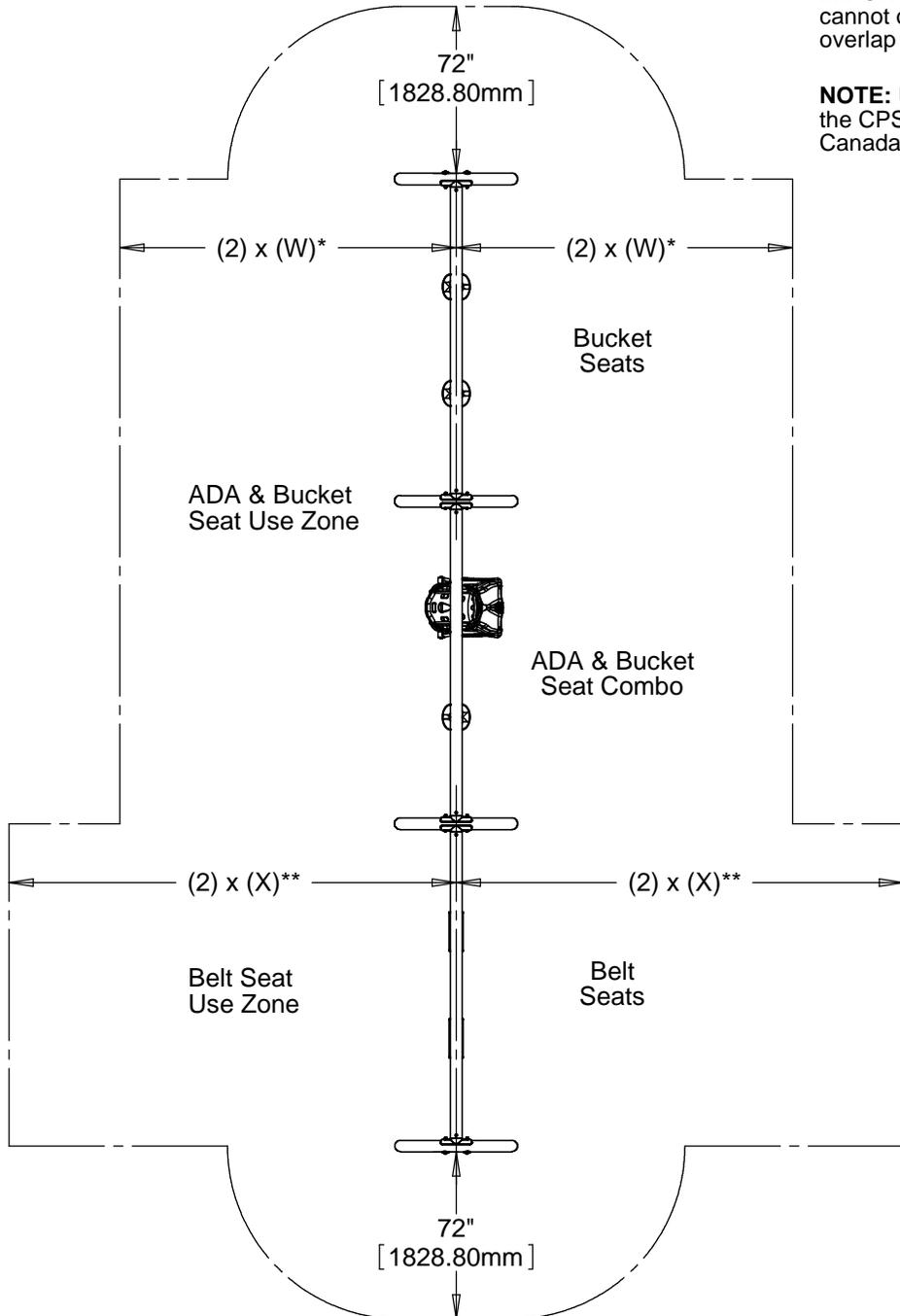


**Use Zone**

**NOTE:** Configuration shown is for illustration of use zones. Your Configuration may vary slightly. Refer to CPSC for corresponding single-axis swing use zones.

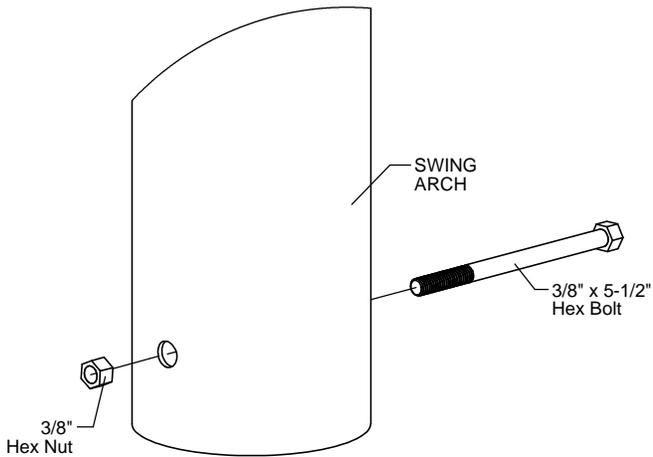
**IMPORTANT:** Front to Rear Use Zones cannot overlap while End Use Zones may overlap other swing End Use Zones.

**NOTE:** Use zones are in conformance with the CPSC but not the CSA. If installing in Canada please refer to CSA Z614.



\* W = the vertical distance from the swing pivot point to the top of the sitting surface.

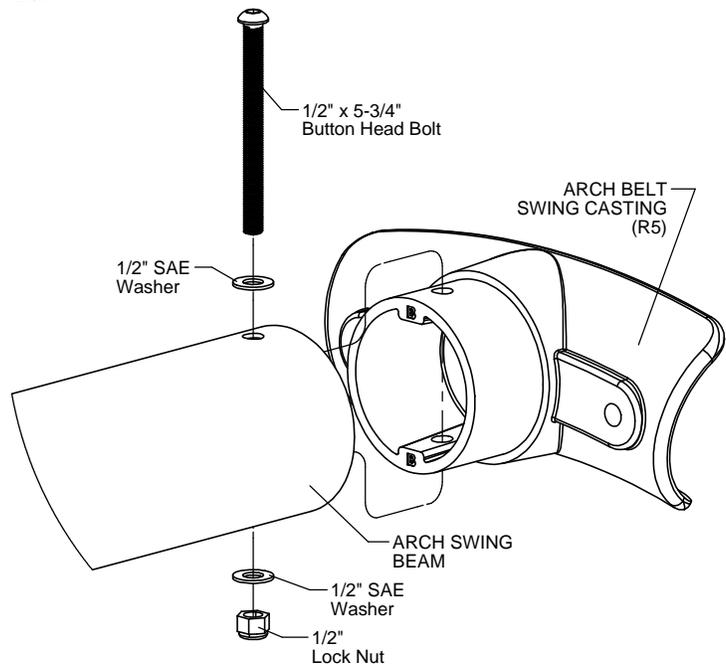
\*\* X = the vertical distance from the protective surfacing to the swing pivot point.



**Figure 1.1**

## Step 2

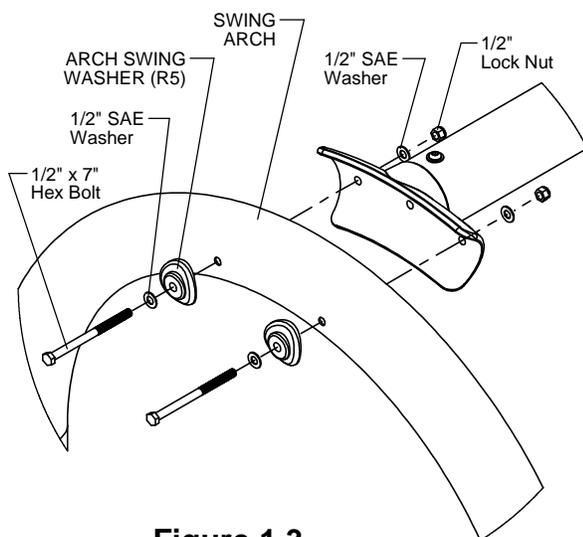
Attach the footing anchor hex bolt to the Swing Arch as shown in Figure 1.1. (See Note A)



**Figure 1.2**

## Step 3

Attach the Arch Swing Beam to the Arch Belt Swing Casting as shown in Figure 1.2. (See Notes A, G & H)



**Figure 1.3**

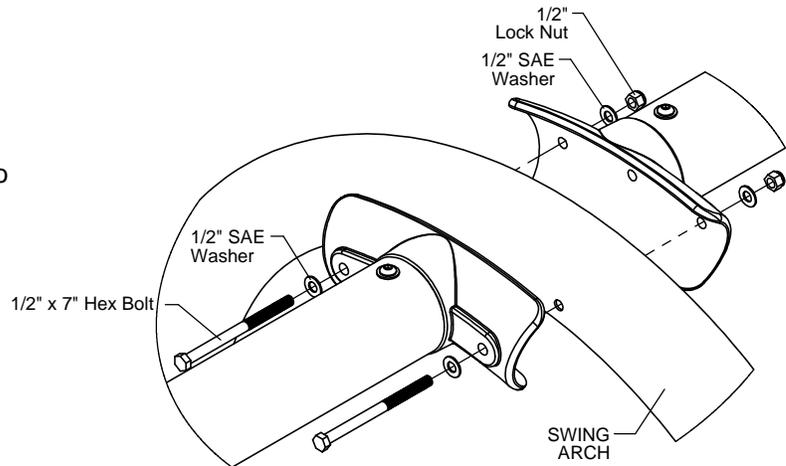
## Step 4

Place the Swing Arches into footing holes and attach the Arch Swing Beam to the Swing Arch as shown in Figure 1.3. (See Notes A, E, & H)

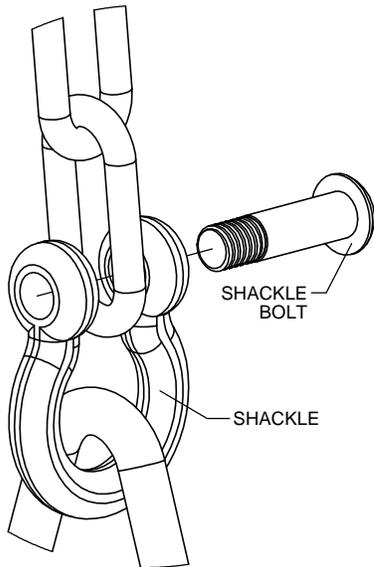
## Step 5

### For Additional Bay Only

Attach the additional Arch Swing Beam to the Swing Arch as shown in Figure 1.4. (See Notes A, E, & H)



**Figure 1.4**

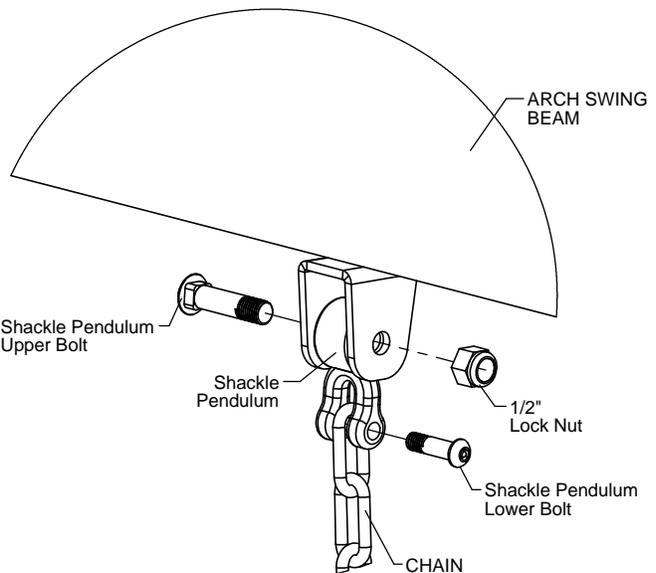


**Figure 1.5**

## Step 6

### For Belt and Bucket Seats Only

Attach the Swing Seat to the Chain as shown in Figure 1.5. (See Notes A & F)



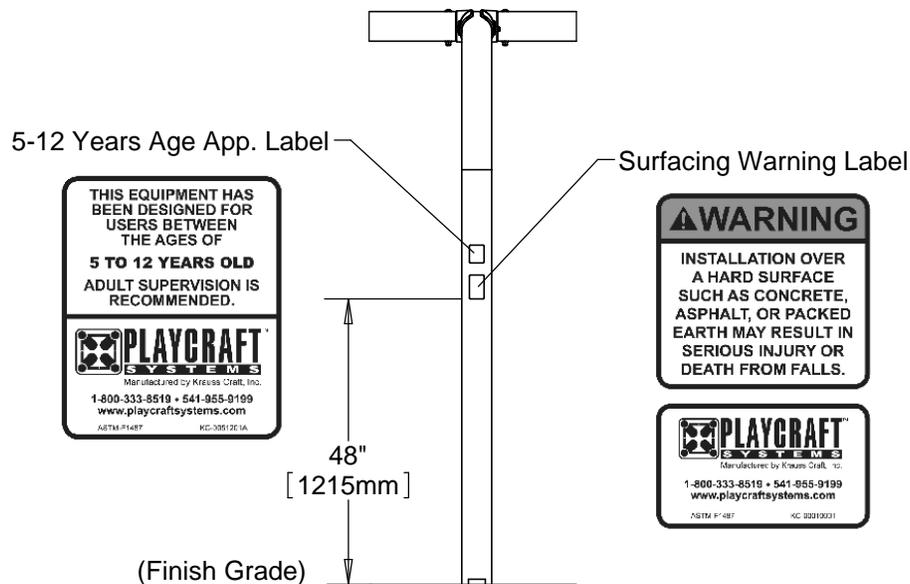
**Figure 1.6**

## Step 7

Attach the Chain to the Swing Beam as shown in Figure 1.6. (See Notes A, E, & F)

## Step 8

Apply the Surfacing Warning and the Age Appropriate Label to the Swing Arch where visible to users as shown in Figure 1.7. (Dimensions indicate suggested placement)



**Figure 1.7**

## Step 9

Fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" section of the Installation Manual.

## Step 10

Plumb and level entire component. Pour concrete into footing holes. Allow at least 72 hours to cure before using this equipment. (See Note B)

## Step 11

Affix "Top of Surfacing" labels to base of posts indicating the top of minimum required protective surfacing depth. (See Note D)

## Step 12

Place required protective surfacing under and around Arch Swing Assembly. (See Note D)

# ARCH SWING ASSEMBLY R5 INSTALLATION INSTRUCTIONS

**PC-2120**  
Page 7 of 7

## Parts List

**Note:** HE-0008-7 & 451165 are not required for ADA.  
Chains are attached to seat.

SINGLE BAY		
Part #	DESCRIPTION	QTY.
GF-4424-B	Arch Swing Casting (R5) - BELT	2
GF-4427	Arch Swing Washer (R5)	4
HE-0008-7	7 Ft. Swing Chain	4
LF-4351	Swing Arch R5	2
Varies	Arch Swing Beam	1
Varies	Swing Seat	2
372008	Top of Surfacing Label	4
372010	ASTM 5-12 Years Age App. Label	1
372012	Surfacing Warning Label	1
451161-SS	Swing Shackle - Stainless Steel	4
471008	Shackle Pendulum With Bolts	4
9105242	Bolt Button Head 1/2" x 5-3/4"	2
9123231	Bolt Hex 3/8" x 5-1/2"	4
9125292	Bolt Hex 1/2" x 7"	4
9345002	Washer Flat SAE 1/2"	12
9415132	Nut Lock 1/2"	6
9483602	Nut Hex 3/8"	4

ADDITIONAL BAYS EACH		
Part #	DESCRIPTION	QTY.
GF-4424-B	Arch Swing Casting (R5) - BELT	2
HE-0008-7	7 Ft. Swing Chain	4
LF-4351	Swing Arch R5	1
Varies	Arch Swing Beam	1
Varies	Swing Seat	2
372008	Top of Surfacing Label	2
451161-SS	Swing Shackle - Stainless Steel	4
471008	Shackle Pendulum With Bolts	4
9105242	Bolt Button Head 1/2" x 5-3/4"	2
9123231	Bolt Hex 3/8" x 5-1/2"	2
9125292	Bolt Hex 1/2" x 7"	2
9345002	Washer Flat SAE 1/2"	8
9415132	Nut Lock 1/2"	4
9483602	Nut Hex 3/8"	2

## Specifications

### SWING ARCH & SWING BEAM:

Swing Arches and Swing Beams shall be fabricated from 5" O.D. 11 gauge galvanized steel tubing. The Swing Arch & Swing Beam shall have a multi-stage baked-on powder coat finish.

### ARCH SWING CASTING AND ARCH SWING WASHER:

Shall be cast from a high-strength aluminum alloy. The Arch Swing Casting and Washer have a multi-stage baked-on powder coat finish.

### SWING CHAIN:

Shall be 7mm (1/4") PC Grade 30 chain with a silver shield cold galvanized finish.

### SWING SEATS:

Swing seats shall be molded from a UV-stabilized flexible rubber compound with slash-proof, reinforced metal inserts.

### INCLUSIVE SEATS:

Shall be constructed of UV-stabilized, rotationally molded, linear, low density polyethylene with an average wall thickness of 1/4".

### HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

## Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



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**Rev N**  
5/27/2011

# STANDARD - PC 2495 MERRY GO ROUND

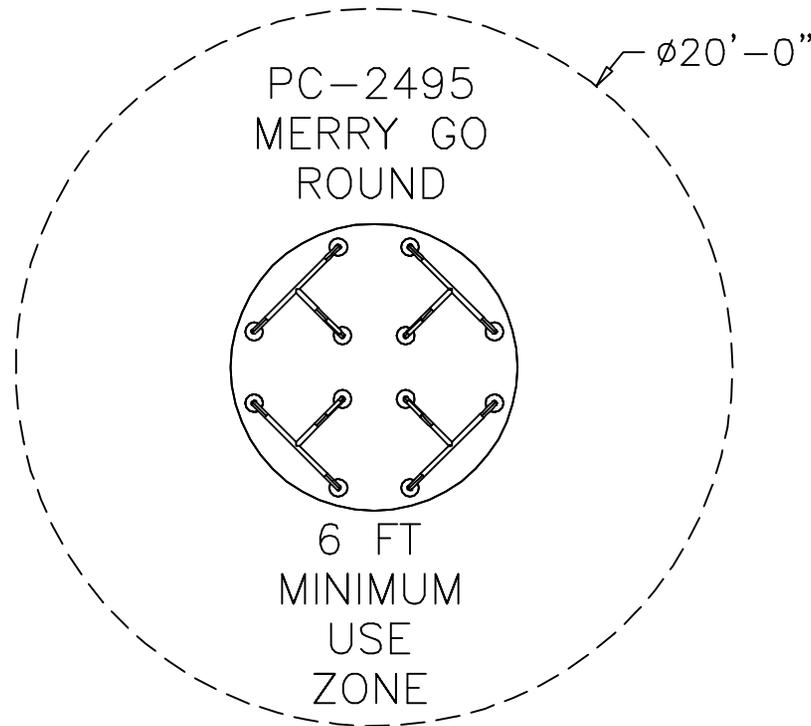
Site Plan (Preliminary)

### ADA ACCESSIBILITY GUIDELINE - ADAAG CONFORMANCE:

THIS DESIGN WILL MEET ADAAG AND ASTM F 1487-07a e1 REQUIREMENTS FOR ACCESS WITH THE ADDITION OF 0 GROUND LEVEL EVENTS (0 TYPES) WHEN PROPERLY INSTALLED OVER ACCESSIBLE SURFACING.

ELEVATED	ACCESSIBLE	RAMP ACCESSIBLE	GROUND	TYPES
0	0/0	0/0	1/0	1/0

FOR KIDS  
AGES  
2-12



#### GENERAL NOTES:

- THE SITE PLAN SHOWN IS BASED ON MEASUREMENTS THAT WERE PROVIDED TO KRAUSS CRAFT, INC. AT THE TIME OF THE PROPOSAL REQUEST. ALL DIMENSIONS MUST BE VERIFIED PRIOR TO THE SUBMISSION OF A PURCHASE ORDER. KRAUSS CRAFT, INC. WILL NOT BE RESPONSIBLE FOR ANY DISCREPANCIES BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS SUBMITTED ON A PROPOSAL REQUEST.
- THE MINIMUM USE ZONE FOR THE PLAY STRUCTURE IS BASED ON THE PRODUCT DESIGN AT THE TIME OF THE PROPOSAL. COMPONENTS AND STRUCTURE DESIGN MAY BE SUBJECT TO CHANGE WHICH MAY AFFECT DIMENSIONS. THEREFORE, BEFORE PREPARING SITE, WE STRONGLY RECOMMEND OBTAINING FINAL DRAWINGS FROM THE FACTORY (AVAILABLE AFTER THE ORDER IS PLACED AND INCLUDED IN THE ASSEMBLY MANUAL).
- **WARNING:** ACCESSIBLE SAFETY SURFACING MATERIAL IS REQUIRED BENEATH AND AROUND THIS EQUIPMENT THAT HAS A CRITICAL HEIGHT VALUE (FALL HEIGHT) APPROPRIATE FOR THE HIGHEST ACCESSIBLE PART OF THIS EQUIPMENT. REFER TO THE CPSC'S HANDBOOK FOR PUBLIC PLAYGROUND SAFETY, SECTION 4: SURFACING.

PC-2495

Date: 07/09/12

Drawn By: KLF

NELSON ENGLISH/WILLIE WARD PARK MERRY GO ROUND

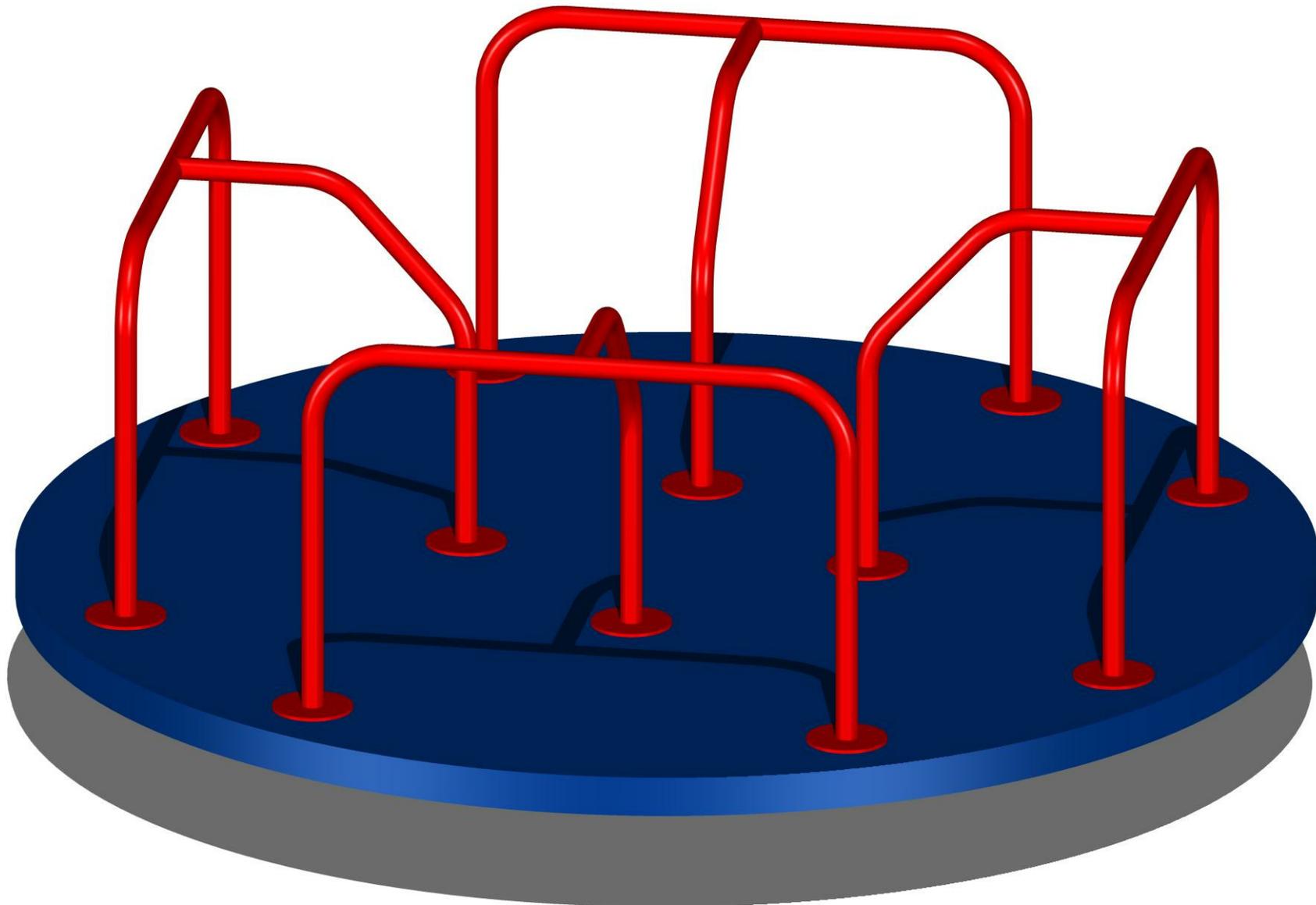
Advanced Recreational Concepts

Scale: 3/16" = 1'-0"



# STANDARD - PC 2495 MERRY GO ROUND

Front Perspective



PC-2495  
Date: 07/09/12  
Drawn By: KLF

**NELSON ENGLISH/WILLIE WARD PARK MERRY GO ROUND**  
Advanced Recreational Concepts



123 NORTH VALLEY DRIVE  
GRANTS PASS, OR 97526  
PH: 541-955-9199  
FAX: 541-955-6130  
[www.playcraftsystems.com](http://www.playcraftsystems.com)

## IMPORTANT NOTES: Read First

(A) Use liquid thread lock (such as Loctite) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

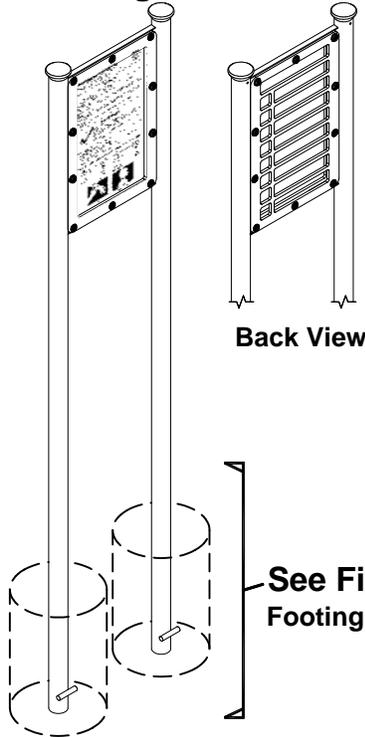
(B) Do not pour concrete until the Equipment is completely assembled, leveled and plumbed. Concrete must be allowed to cure completely before using the equipment (at least 72 hours).

(C) Use appropriate compliant protective surfacing and adjust footing depths accordingly. See free publication - The Handbook for Public Playground Safety, Publication #325 at [www.CPSC.gov](http://www.CPSC.gov) for the surfacing appropriate for the fall height of the equipment or consult your surfacing supply representative.

(D) Fitness Signs are to be located outside use zone per manufacturer's recommendation. See free publication - The Handbook for Public Playground Safety, Publication #325 at [www.CPSC.gov](http://www.CPSC.gov) for more information on use zones.

## Assembly Views

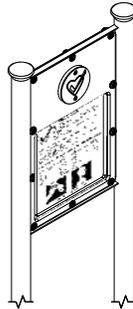
### Modular Fitness Sign



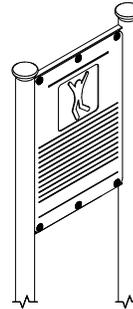
Back View

See Figure 1  
Footing Detail

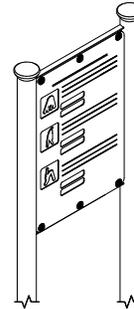
### Instructional Fitness Sign\*



### Informational Fitness Sign\*



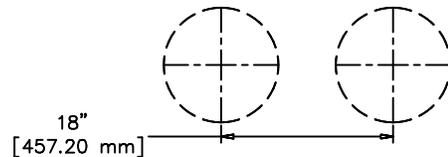
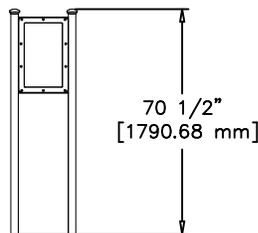
### Station Fitness Sign\*



\*Fitness Signs shown are an example. The actual signs may vary from depictions.

## Elevation

Front View



## Footing Layout

Bottom View



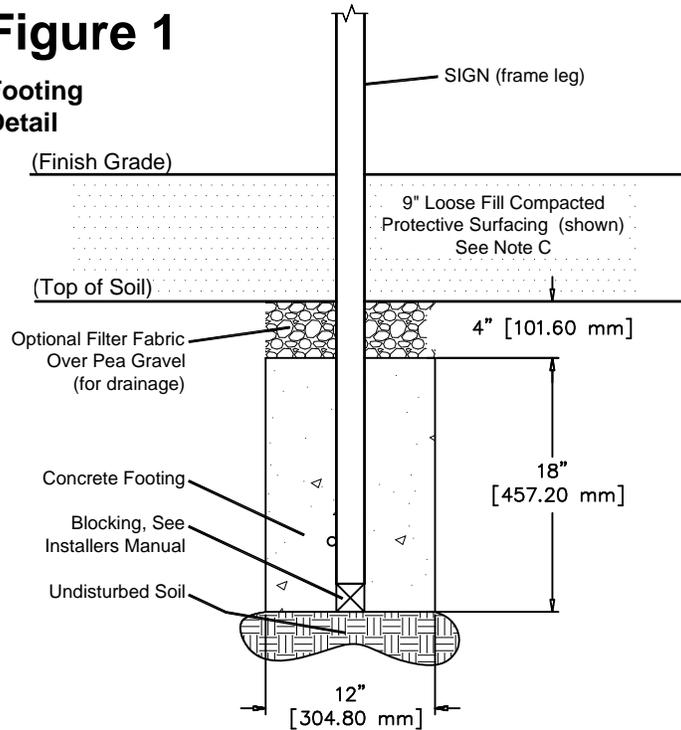
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**Rev A**

## Figure 1

### Footing Detail



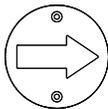
\*Adjust Footing Depth compensating for protective surfacing depth and chosen blocking material.

## Assembly View

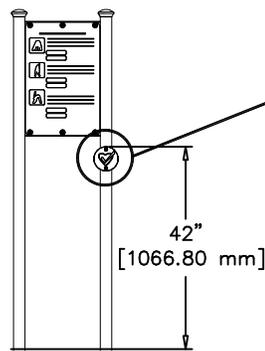
### Optional Plaque(s)



**Heart Check Plaque**  
Part# 4798

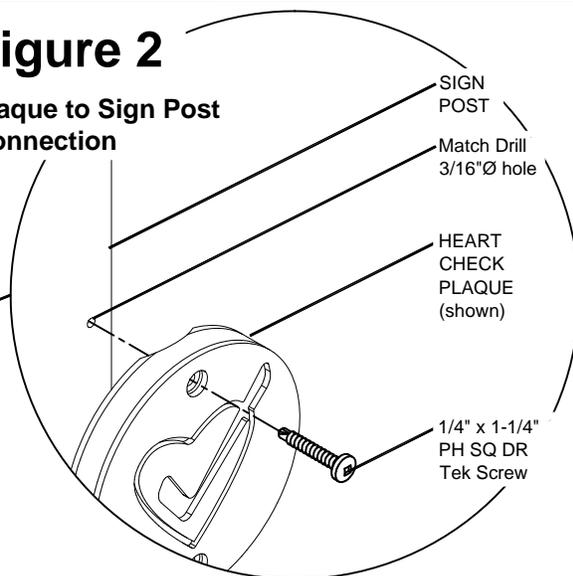


**Directional Plaque**  
Part# 4799



## Figure 2

### Plaque to Sign Post Connection



## Parts List

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
varies	Fitness Sign(s)	1

## Typical Hardware List

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
9103032-TR	Bolt Button Head 3/8" x 3/4"	10*
9333002	Washer Flat 3/8" x 1" x .100" thick	10*
9345002	Washer Flat SAE 1/2"	10*
9443022-TR	Nut Barrel 3/8" x 5/8" BH	10*

\*Quantities of pre-assembled hardware varies between the different types of Fitness Signs available.

## Optional Plaque Parts List

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
varies	Plaque	1
9271060	Screw tek 1/4" x 1-1/4" PH SQDR	2

## Specifications

### SIGN FRAME MODULAR FITNESS:

Shall be formed from 2.375" O.D., 10 ga. steel tubing with 10 ga. mounting plates and brackets. The Sign Frame Modular Fitness has a multi-stage baked-on powder coat finish.

### SIGN MODULAR FRAME & SIGNAGE:

Shall be fabricated using 3/4" High Density Polyethylene hot-extruded plastic.

### PIPE CAP 2"Ø, 1/4" THK:

Shall be precision die-cast from a high-strength aluminum alloy. The Pipe Cap has a multi-stage baked-on powder coating.

### HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

## Installation

### Step 1.

Refer to Footing Layout and mark footing hole locations. Dig (2) 12"Ø footing holes. Refer to Figure 1 for depth and details. **IMPORTANT:** For areas with soft soil conditions, larger footings may be required.

### Step 2:

Set the Fitness Sign into footing holes. Plumb and level entire component. Block and brace prior to pouring concrete into holes. Refer to Figure 1 for details. Allow 72 hours to cure before using this equipment. See Note B.

### Step 3.

Place appropriate compliant protective surfacing under and around Fitness Sign. See Note C.

## Optional Plaque Installation

### Step 1.

Locate desired Sign Post to mount Plaque.

### Step 2.

Match Drill (2) 3/16" dia. holes into post using plaque as a guide.

### Step 3.

Apply liquid thread lock to hardware and attach sign to post. Refer to Figure 2 for hardware type and orientation. Fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" Section of the Installer's Manual. See Note A.

## Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



## IMPORTANT NOTES: Read First

**(A)** Use liquid thread lock (such as Loctite®) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

**(B)** Do not pour concrete until the Equipment is completely assembled, leveled and plumbed. Concrete must be allowed to cure completely before using the equipment (at least 72 hours).

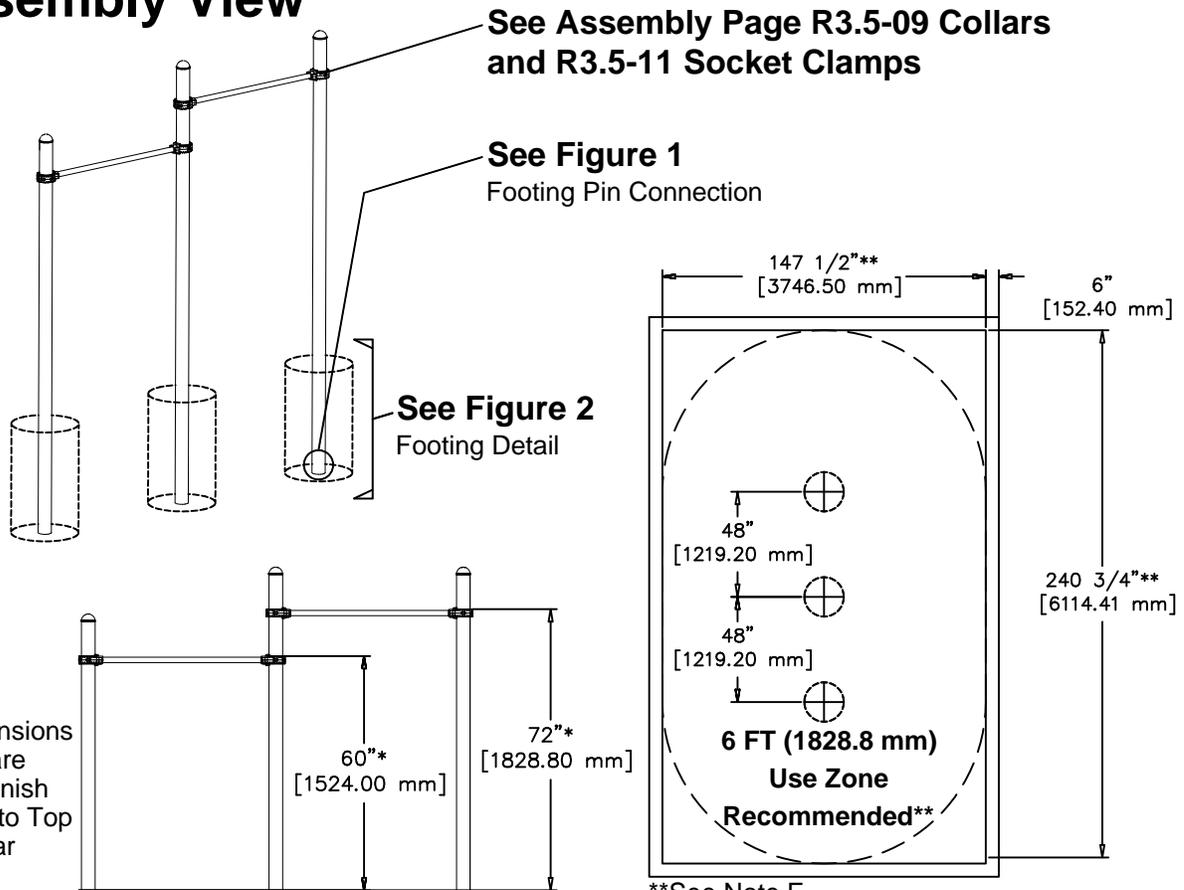
**(C)** This Assembly requires additional Assembly Pages. See Assembly Page R3.5-09 Collars and R3.5-11 Socket Clamps.

**Sign Option:** If a Sign is included See Assembly Page PC 2509 Fitness Sign(s).

**(D)** Use appropriate compliant protective surfacing and adjust footing depths accordingly. See free publication - The Handbook for Public Playground Safety, Publication #325 at [www.CPSC.gov](http://www.CPSC.gov) for the surfacing appropriate for the fall height of the equipment or consult you surfacing supply representative.

**(E)** Optional Station Sign is to be located outside use zone per manufacturer's recommendation. The Dual Turning/Chinning Bars have a recommended use zone that should extend a minimum of 6 feet in all directions from the perimeter of the equipment. The use zones of two stationary pieces of playground equipment that are positioned adjacent to one another may overlap if the adjacent designated play surfaces of each structure are no more than 30 inches above the protective surface. See free publication - The Handbook for Public Playground Safety, Publication #325 at [www.CPSC.gov](http://www.CPSC.gov) for more information on overlapping use zones.

## Assembly View



## Elevation

Side View

## Footing Layout

Bottom View



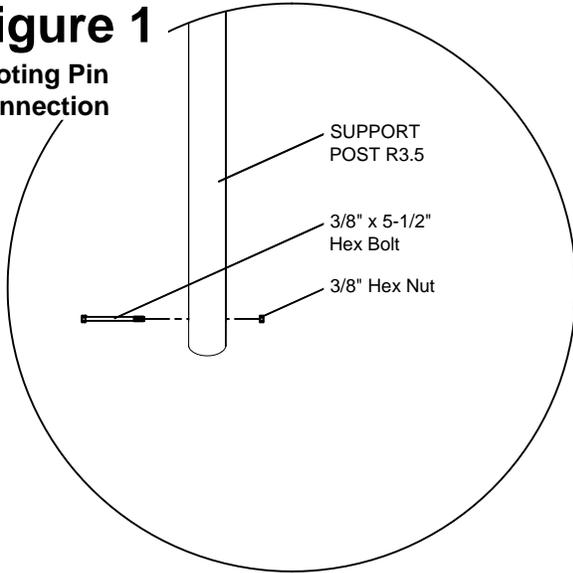
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Rev C

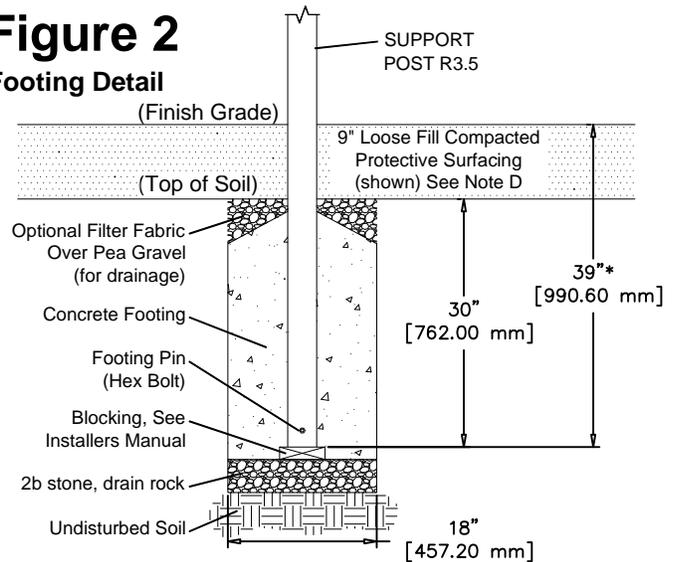
## Figure 1

Footing Pin Connection



## Figure 2

Footing Detail



\*Adjust Footing Depth compensating for protective surfacing depth and chosen blocking material.

## Parts List

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
008107	Collar R35 (half)	8
See Pg. R3.5-11	Socket Clamp Assy.'s	4
FS-1930-R35	Turning/Chinning Bar R35	2
S-1009-R35	Post R3.5" 09 FT. w/ Dome Cap	1
S-1010-R35	Post R3.5" 10 FT. w/ Dome Cap	2
9123231	Bolt Hex 3/8" x 5-1/2"	3
9271062	Screw Tek 1/4" x 1-1/4" HX WH	8
9281062-5	Screw Soc HD CS 1/4" x 1-3/8"	8
9333602	Washer Flat 6 mm	8
9483602	Nut Hex 3/8"	3

## Assembled Parts List

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
008135	Post Cap R35 Dome	3
9610012	Rivet 3/16" x 1/2" to 3/4" Pop	6

## Specifications

### TURNING/CHINNING BAR:

Shall be a single piece of 1.315" O.D., 12 ga. steel tubing. The Turning/Chinning Bar has a multi-stage baked on powder coat finish.

### SOCKET CLAMPS & COLLARS:

Shall be two-part and precision die-cast from a high strength aluminum alloy. The Socket Clamps and Collars have a multi-stage baked-on powder coat finish.

### POST R35:

Shall be made from 3.5" O.D., 11 ga. galvanized steel tubing. The Post R35 has a multi-stage baked-on powder coat finish.

### POST CAP R35 DOME:

Shall be precision die-cast from a high strength aluminum alloy. The Post Cap has a multi-stage baked-on powder coat finish.

### HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

## Installation

### Step 1.

Refer to Footing Layout and mark footing holes location. Dig (3) 18"Ø footing holes. Refer to Figure 2 for depth and details. **IMPORTANT:** For areas with soft soil conditions, larger footings may be required.

### Step 2.

Attach Footing Pin. Refer to Figure 1 for hardware type and orientation. Set the Dual Turning/Chinning Bar posts into footing holes. Plumb and level post. Block and brace prior to pouring concrete into hole. Refer to Figure 2 for details. Allow 72 hours to cure before using this equipment. See Note B.

### Step 3.

Attach Turning/Chinning Bars. Refer to Elevation View for heights and orientation. See Assembly Page R3.5-09 Collars and R3.5-11 Socket Clamps for hardware type and orientation.

### Step 4.

Place appropriate compliant protective surfacing under and around Turning/Chinning Bar posts. See Note D.

## Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



## IMPORTANT NOTES: Read First

**(A)** Use liquid thread lock (such as Loctite) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

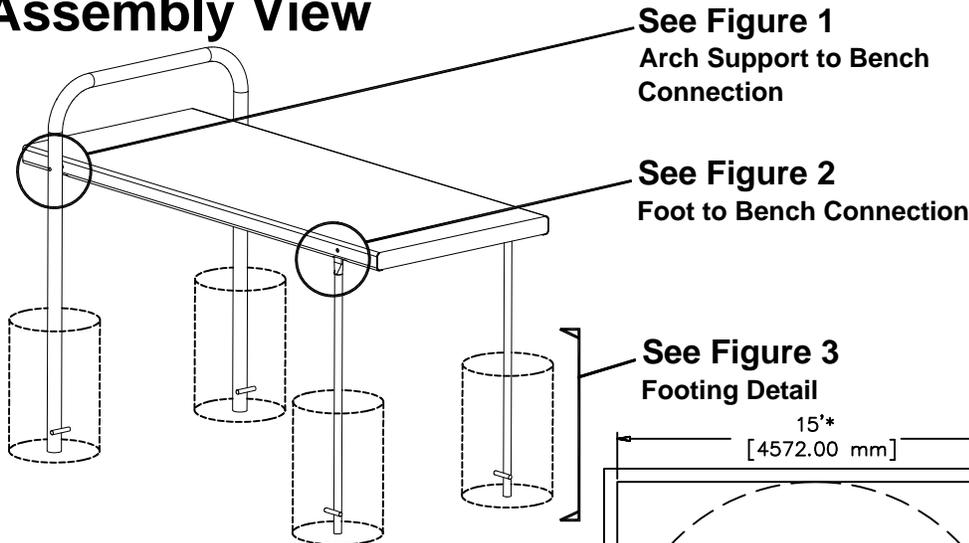
**(B)** Do not pour concrete until the Equipment is completely assembled, leveled and plumbed. Concrete must be allowed to cure completely before using the equipment (at least 72 hours).

**(C) Sign Option:** If a Sign is included See Assembly Page PC 2509-STA Station Sign.

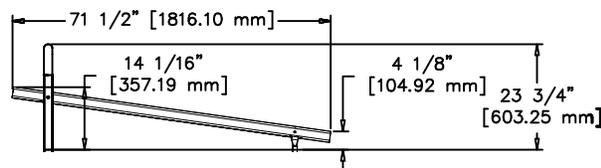
**(D)** Use appropriate compliant protective surfacing and adjust footing depths accordingly. See free publication - The Handbook for Public Playground Safety, Publication #325 at [www.CPSC.gov](http://www.CPSC.gov) for the surfacing appropriate for the fall height of the equipment or consult your surfacing supply representative.

**(E)** Optional Station Sign is to be located outside use zone per manufacturer's recommendation. The Sit-Up Bench Station has a recommended use zone that should extend a minimum of 6 feet in all directions from the perimeter of the equipment. The use zones of two stationary pieces of playground equipment that are positioned adjacent to one another may overlap if the adjacent designated play surfaces of each structure are no more than 30 inches above the protective surface. See free publication - The Handbook for Public Playground Safety, Publication #325 at [www.CPSC.gov](http://www.CPSC.gov) for more information on overlapping use zones.

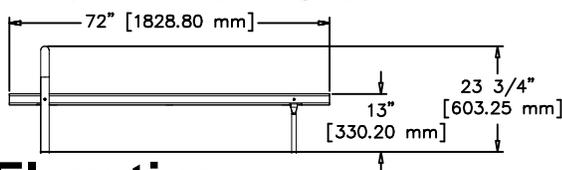
## Assembly View



### Body Curl Bench (8° Angle)

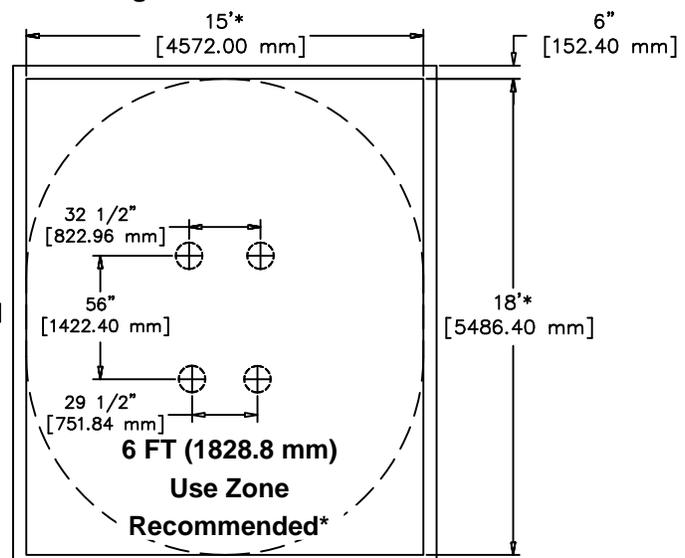


### Sit-Up Bench (Straight)



## Elevation

Side View



\*See Note E

## Footing Layout

Bottom View



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**Rev G**



## Parts List

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
005037	Sit-Up/Body Curl Bench (Top 6')	1
FS-PC2525-ARCH	Arch Support	1
FS-PC2525-FOOT	Bench Foot	2
9103062-TR	Bolt, Button Head 3/8" x 1-1/4"	2
9103132	Bolt, Button Head 3/8" x 3"	2
9333002	Washer Flat 3/8" x 1" x .100 thick	6
9413002	Nut Lock 3/8"	4

## Installation

### Step 1.

Attach the Arch Support to the Sit-Up/Body Curl Bench. Refer to Figure 1 for hardware type and orientation.

### Step 2.

Attach the Flat Bench Foot (2) to the Sit-Up/Body Curl Bench. Refer to Figure 2 for hardware type and orientation.

### Step 3.

Refer to Footing Layout and mark footing hole locations. Dig (4) 12"Ø footing holes. Refer to Figure 3 for depth and details. **IMPORTANT:** For areas with soft soil conditions, larger footings may be required.

### Step 4.

Set the Arch Support (Legs) and Bench Feet into footing holes. Plumb and level entire component. Block and brace prior to pouring concrete into holes. Refer to Figure 3 for details. Allow 72 hours to cure before using this equipment. See Note B.

### Step 5.

Apply liquid thread lock and fully tighten all fasteners according to the "TIGHTENING TORQUE FOR HARDWARE" Section of the Installer's Manual. See Note A.

### Step 6.

Place appropriate compliant protective surfacing under and around Sit-Up/Body Curl Bench. See Note D.

## Specifications

### SIT-UP/BODY CURL BENCH:

Shall be fabricated using 14 ga. punched and formed sheet steel with reinforcing cross members and gussets. The Sit-Up Bench shall be PVC (Poly-Vinyl-Chloride) coated after fabrication.

### ARCH SUPPORT:

Shall be fabricated using 1.900" O.D., 11 ga. steel tubing. The Arch Support has a multi-stage baked-on powder coating.

### BENCH FOOT:

Shall be fabricated using 1.029" O.D., 14 ga. steel tubing. The Bench Foot has a multi-stage baked-on powder coating.

### HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

## Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



## IMPORTANT NOTES: Read First

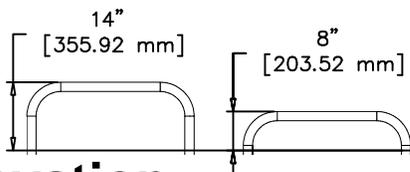
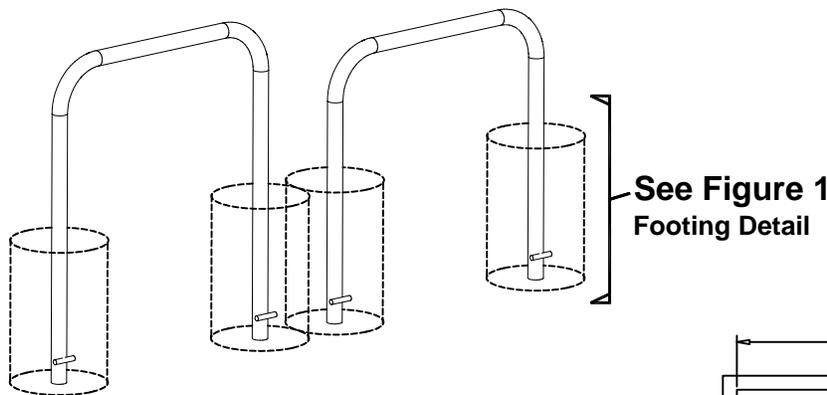
**(A)** Do not pour concrete until the Equipment is completely assembled, leveled and plumbed. Concrete must be allowed to cure completely before using the equipment (at least 72 hours).

**(B) Sign Option:** If a Sign is included See Assembly Page PC 2509-STA Station Sign.

**(C)** Use appropriate compliant protective surfacing and adjust footing depths accordingly. See free publication - The Handbook for Public Playground Safety, Publication #325 at [www.CPSC.gov](http://www.CPSC.gov) for the surfacing appropriate for the fall height of the equipment or consult you surfacing supply representative.

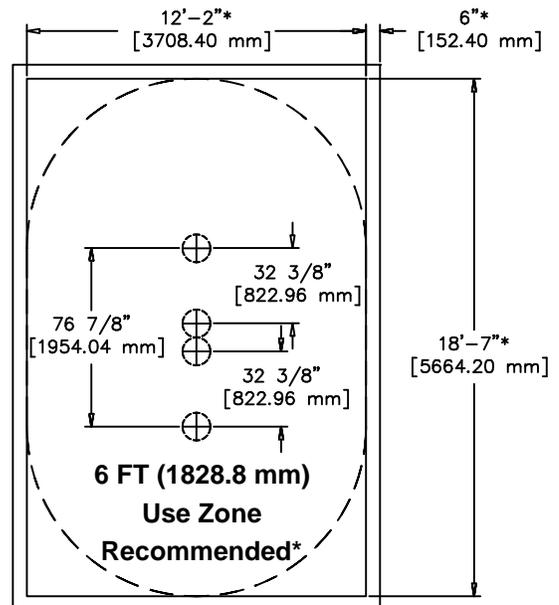
**(D)** Optimal Station Sign is to be located outside use zone per manufacturer's recommendation. The Push-Up Station has a recommended use zone that should extend a minimum of 6 feet in all directions from the perimeter of the equipment. The use zones of two stationary pieces of playground equipment that are positioned adjacent to one another may overlap if the adjacent designated play surfaces of each structure are no more than 30 inches above the protective surface. See free publication - The Handbook for Public Playground Safety, Publication #325 at [www.CPSC.gov](http://www.CPSC.gov) for more information on overlapping use zones.

## Assembly View



**Elevation**

Side View



\*See Note D

**Footing Layout**

Bottom View



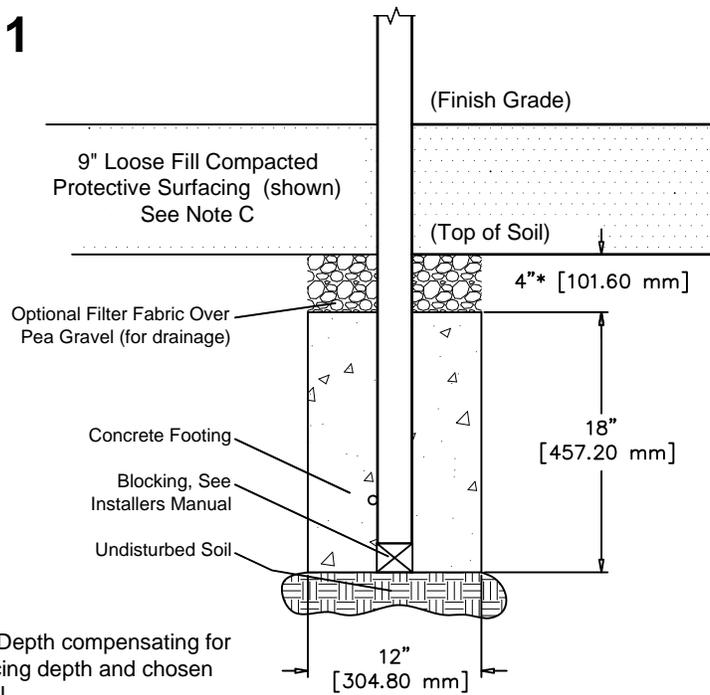
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**Rev B**

## Figure 1

### Footing Detail



\*Adjust Footing Depth compensating for protective surfacing depth and chosen blocking material.

# PUSH-UP STATION

**PC 2535**

Page 3 of 3

## Parts List

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
FS-PC2535	Push-up Station	1 Set

## Installation

### Step 1.

Refer to Footing Layout and mark footing hole locations. Dig (4) 12"Ø footing holes. Refer to Figure 1 for depth and details. **Important:** For areas with soft soil conditions, larger footings may be required.

### Step 2.

Set the Push-Up Bars into footing holes. Plumb and level Equipment. Block and brace prior to pouring concrete into footing holes. Refer to Figure 1 for details. Allow 72 hours to cure before using this equipment. See Note A.

### Step 3.

Place appropriate compliant protective surfacing under and around Push-Up Station. See Note C.

## Specifications

### PUSH-UP STATION:

Shall be made of 1.900" O.D., 11 ga. steel tubing and 5/8" round bar for an anchor in the footing. The Push-Up Station has a multi-stage baked-on powder coat finish.

## Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



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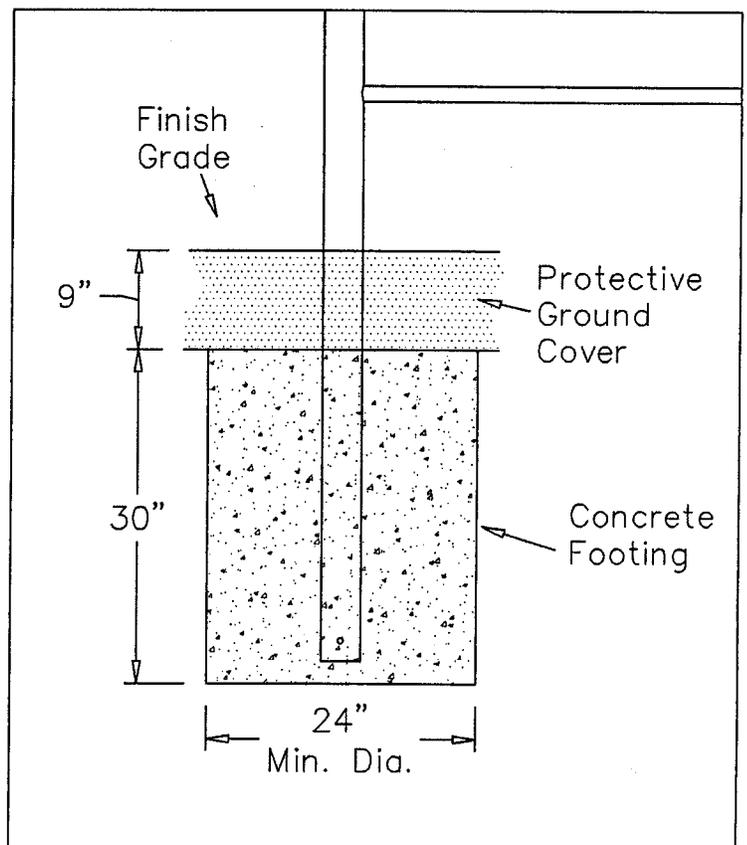
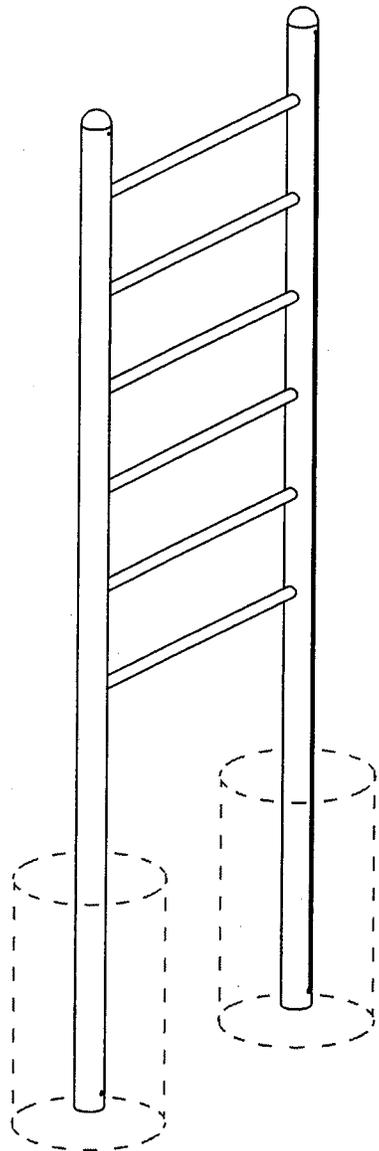
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**Rev B**

# VERTICAL CLIMBING LADDER

PC-2545

Page 1 of 2



## Parts List

<u>QTY.</u>	<u>DESCRIPTION</u>	<u>PART #</u>
1	Vertical Climbing Ladder	PC-5550-h

## Installation

### NOTES:

#### Step 1.

Dig footing holes 30" deep by 24" Min. diameter. See Fig. 4 for footing detail.

IMPORTANT: For areas with soft soil conditions, larger footings may be required.

**Step 2.** Place Vertical Climbing Wall into Footing Hole and pour Footing. Allow 72 hours curing time before use.

## Specifications

### VERTICAL CLIMBING LADDER:

Main Post shall be made of 3.5" Rnd. T.S. with welded on 2" Rnd. T.S. rungs. Finished with a baked on powder-coating.

## Maintenance

Periodically tighten all screws, bolts and nuts.  
A periodic inspection of all parts is necessary.  
If a part is broken or worn, replace immediately.

## IMPORTANT NOTES: Read First

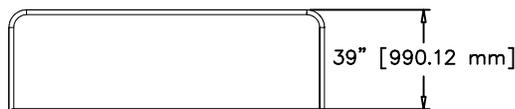
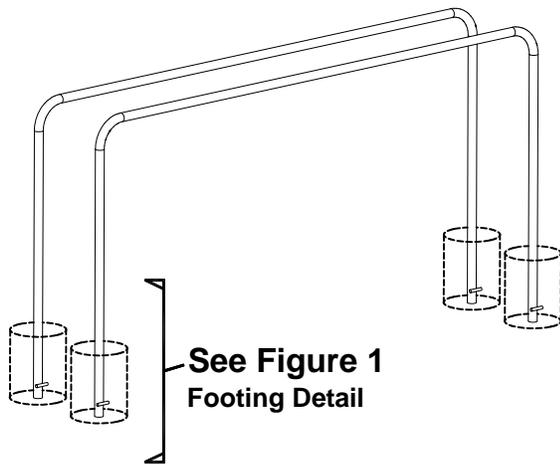
**(A)** Do not pour concrete until the Equipment is completely assembled, leveled and plumbed. Concrete must be allowed to cure completely before using the equipment (at least 72 hours).

**(B) Sign Option:** If a Sign is included See Assembly Page PC 2509-STA Station Sign.

**(C)** Use appropriate compliant protective surfacing and adjust footing depths accordingly. See free publication - The Handbook for Public Playground Safety, Publication #325 at [www.CPSC.gov](http://www.CPSC.gov) for the surfacing appropriate for the fall height of the equipment or consult you surfacing supply representative.

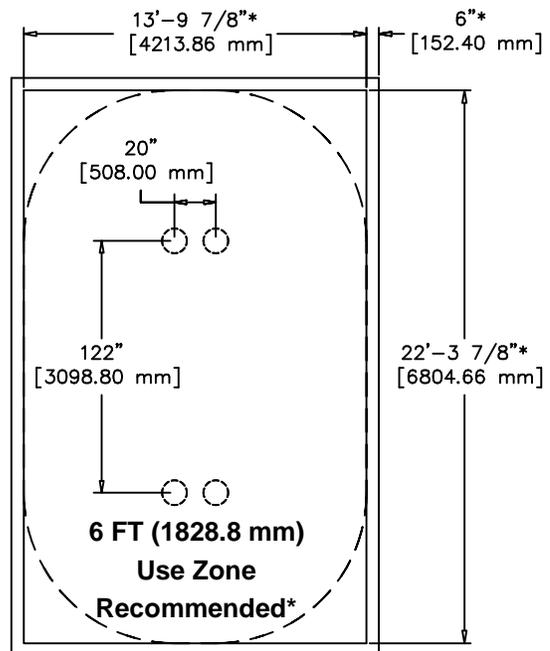
**(D)** Optional Station Sign is to be located outside use zone per manufacturer's recommendation. The Parallel Bars have a recommended use zone that should extend a minimum of 6 feet in all directions from the perimeter of the equipment. The use zones of two stationary pieces of playground equipment that are positioned adjacent to one another may overlap if the adjacent designated play surfaces of each structure are no more than 30 inches above the protective surface. See free publication - The Handbook for Public Playground Safety, Publication #325 at [www.CPSC.gov](http://www.CPSC.gov) for more information on overlapping use zones.

## Assembly View



## Elevation

Side View



\*See Note D

## Footing Layout

Bottom View



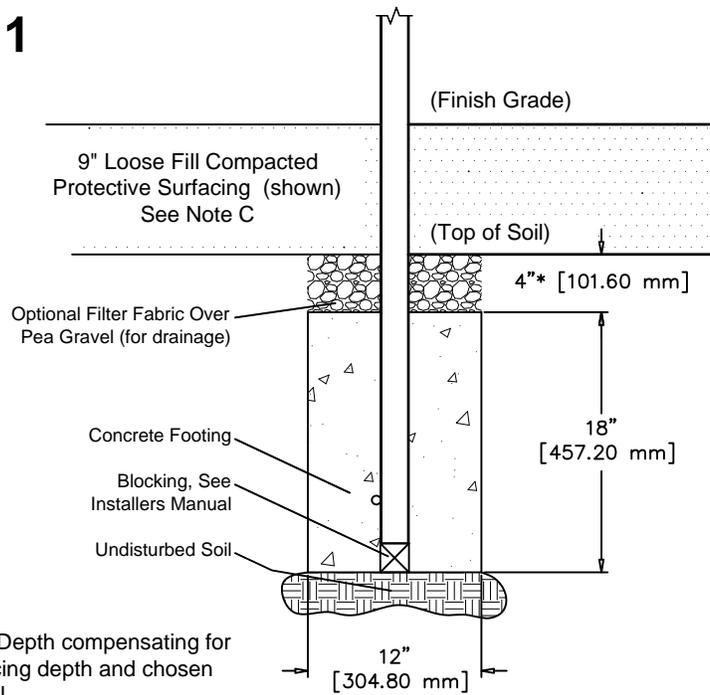
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**Rev C**

## Figure 1

### Footing Detail



\*Adjust Footing Depth compensating for protective surfacing depth and chosen blocking material.

# PARALLEL BARS

PC 2550

Page 3 of 3

## Parts List

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
FS-PC2550	Parallel Bar	1 Pair

## Installation

### Step 1.

Refer to Footing Layout and mark footing hole locations. Dig (4) 12"Ø footing holes. Refer to Figure 1 for depth and details. **Important:** For areas with soft soil conditions, larger footings may be required.

### Step 2.

Set the Parallel Bars into footing holes. Plumb and level Parallel Bars. Block and brace prior to pouring concrete into footing holes. Refer to Figure 1 for details. Allow 72 hours to cure before using this equipment. See Note A.

### Step 3.

Place appropriate compliant protective surfacing under and around Parallel Bars. See Note C.

## Specifications

### PARALLEL BARS:

Shall be made of 1.900" O.D., 11 ga. steel tubing with (2) 5/8" round bar as footing anchors. The Parallel Bars have a multi-stage baked-on powder coat finish.

## Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



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Rev C

# STANDARD - PC 2563-4 BEAM JUMP STATION

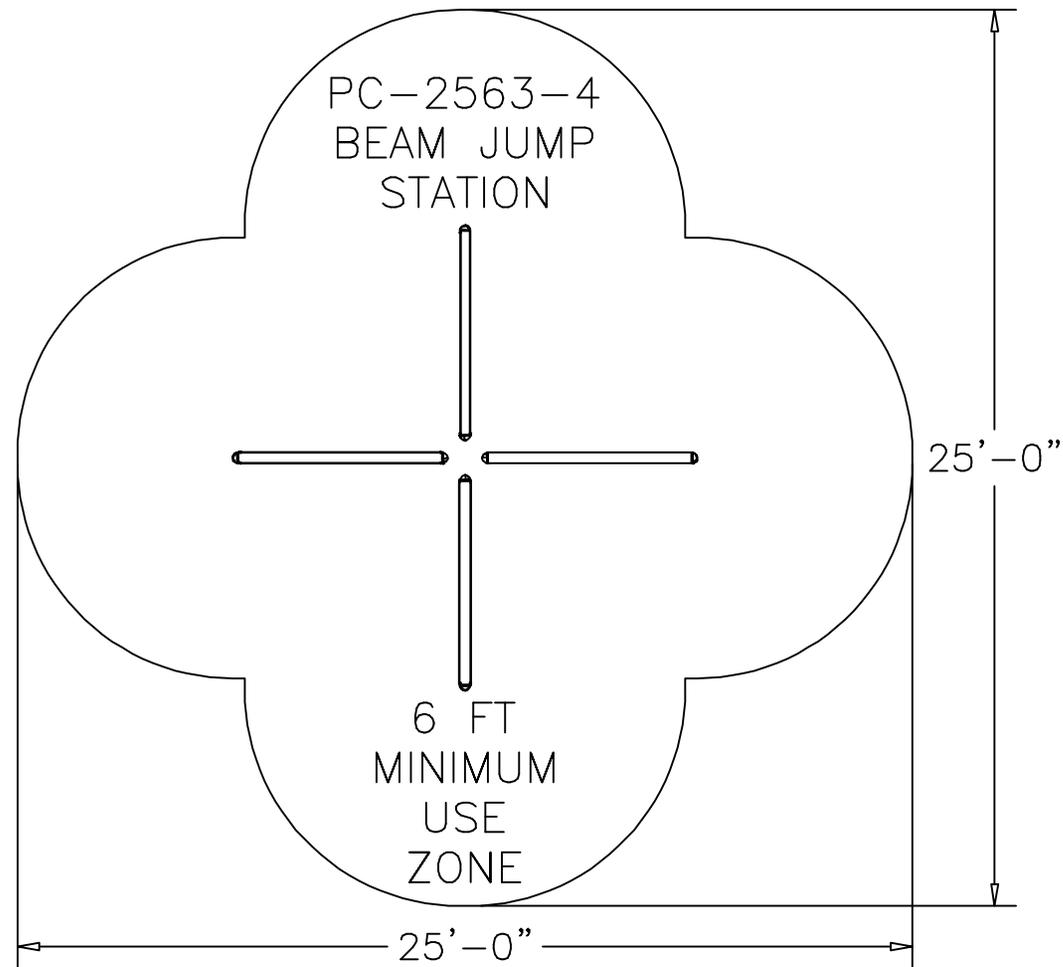
Site Plan (Preliminary)

### ADA ACCESSIBILITY GUIDELINE - ADAAG CONFORMANCE:

THIS DESIGN WILL MEET ADAAG AND ASTM F 1487-07a e1 REQUIREMENTS FOR ACCESS WITH THE ADDITION OF 0 GROUND LEVEL EVENTS (0 TYPES) WHEN PROPERLY INSTALLED OVER ACCESSIBLE SURFACING.

ELEVATED	ACCESSIBLE	RAMP ACCESSIBLE	GROUND	TYPES
0	0/0	0/0	4/0	1/0

FOR KIDS  
AGES  
2-12



**GENERAL NOTES:**

- THE SITE PLAN SHOWN IS BASED ON MEASUREMENTS THAT WERE PROVIDED TO KRAUSS CRAFT, INC. AT THE TIME OF THE PROPOSAL REQUEST. ALL DIMENSIONS MUST BE VERIFIED PRIOR TO THE SUBMISSION OF A PURCHASE ORDER. KRAUSS CRAFT, INC. WILL NOT BE RESPONSIBLE FOR ANY DISCREPANCIES BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS SUBMITTED ON A PROPOSAL REQUEST.
- THE MINIMUM USE ZONE FOR THE PLAY STRUCTURE IS BASED ON THE PRODUCT DESIGN AT THE TIME OF THE PROPOSAL. COMPONENTS AND STRUCTURE DESIGN MAY BE SUBJECT TO CHANGE WHICH MAY AFFECT DIMENSIONS. THEREFORE, BEFORE PREPARING SITE, WE STRONGLY RECOMMEND OBTAINING FINAL DRAWINGS FROM THE FACTORY (AVAILABLE AFTER THE ORDER IS PLACED AND INCLUDED IN THE ASSEMBLY MANUAL).
- **WARNING:** ACCESSIBLE SAFETY SURFACING MATERIAL IS REQUIRED BENEATH AND AROUND THIS EQUIPMENT THAT HAS A CRITICAL HEIGHT VALUE (FALL HEIGHT) APPROPRIATE FOR THE HIGHEST ACCESSIBLE PART OF THIS EQUIPMENT. REFER TO THE CPSC'S HANDBOOK FOR PUBLIC PLAYGROUND SAFETY, SECTION 4: SURFACING.

PC-2563-4  
Date: 07/09/12  
Drawn By: KLF

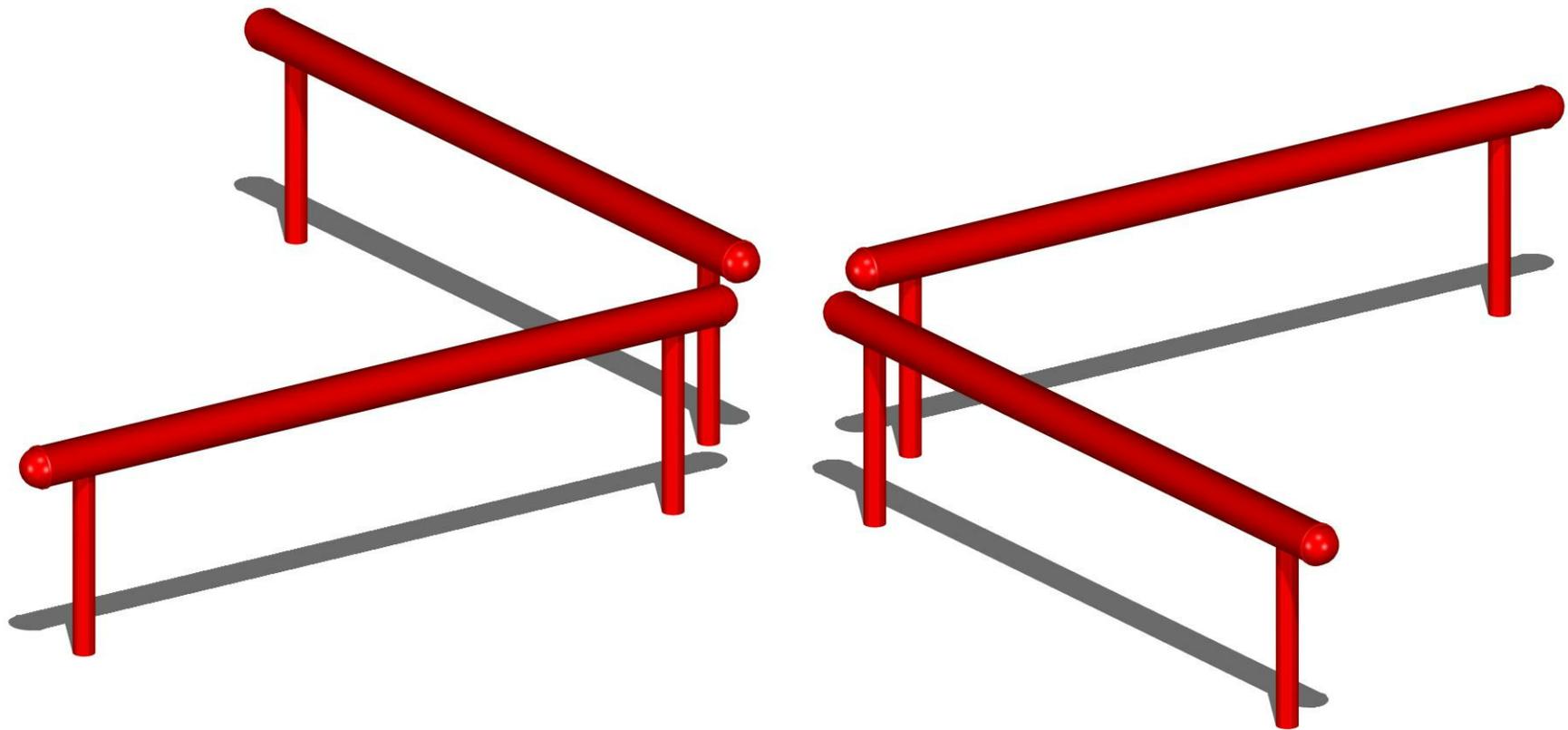
**NELSON ENGLISH/WILLIE WARD PARK JUMP STATION**  
Advanced Recreational Concepts

Scale: 3/16" = 1'-0"



# STANDARD - PC 2563-4 BEAM JUMP STATION

Front Perspective



PC-2563-4  
Date: 07/09/12  
Drawn By: KLF

**NELSON ENGLISH/WILLIE WARD PARK JUMP STATION**  
Advanced Recreational Concepts



123 NORTH VALLEY DRIVE  
GRANTS PASS, OR 97526  
PH: 541-955-9199  
FAX: 541-955-6130  
[www.playcraftsystems.com](http://www.playcraftsystems.com)

## IMPORTANT NOTES: Read First

(A) Use liquid thread lock (such as Loctite) with all threaded hardware. **Important:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

(B) Do not pour concrete until the Equipment is completely assembled, leveled and plumbed. Concrete must be allowed to cure completely before using the equipment (at least 72 hours).

(C) This Assembly requires additional Assembly Pages. See Assembly Page R3.5-09 Collars and R3.5 Socket Clamps.

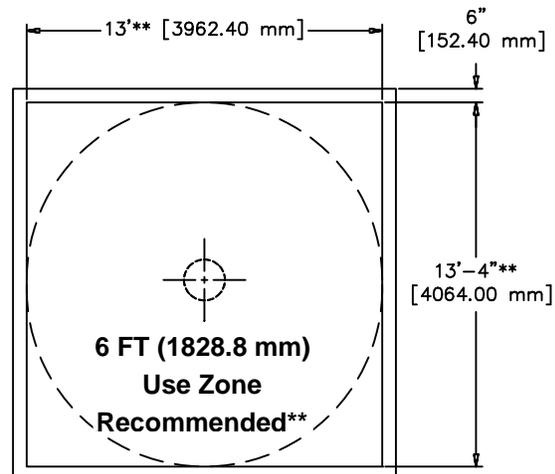
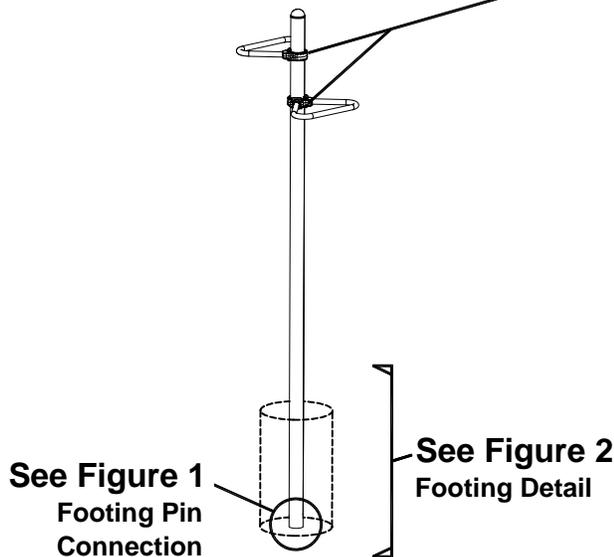
**Sign Option:** If a Sign is included See Assembly Page PC 2509 Fitness Sign(s).

(D) Use appropriate compliant protective surfacing and adjust footing depths accordingly. See free publication - The Handbook for Public Playground Safety, Publication #325 at [www.CPSC.gov](http://www.CPSC.gov) for the surfacing appropriate for the fall height of the equipment or consult your surfacing supply representative.

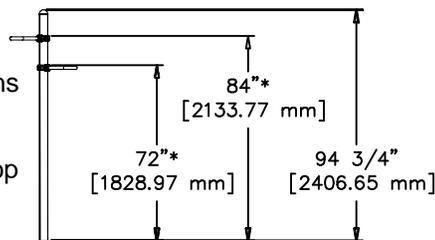
(E) Optional Station Sign is to be located outside use zone per manufacturer's recommendation. The Leg Lift Station has a recommended use zone that should extend a minimum of 6 feet in all directions from the perimeter of the equipment. The use zones of two stationary pieces of playground equipment that are positioned adjacent to one another may overlap if the adjacent designated play surfaces of each structure are no more than 30 inches above the protective surface. See free publication - The Handbook for Public Playground Safety, Publication #325 at [www.CPSC.gov](http://www.CPSC.gov) for more information on overlapping use zones.

## Assembly View

See Assembly Page R3.5-09 Collars and R3.5-11 Socket Clamps



\* Dimensions given are from Finish Grade to Top of Collar



## Elevation

Side View

## Footing Layout

Bottom View



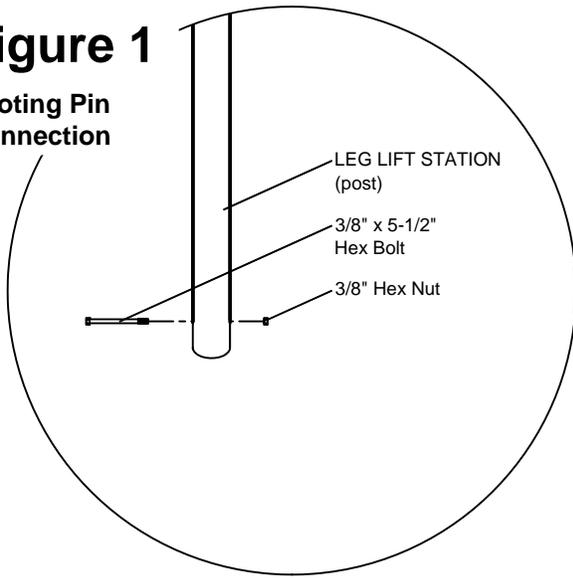
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**Rev B**

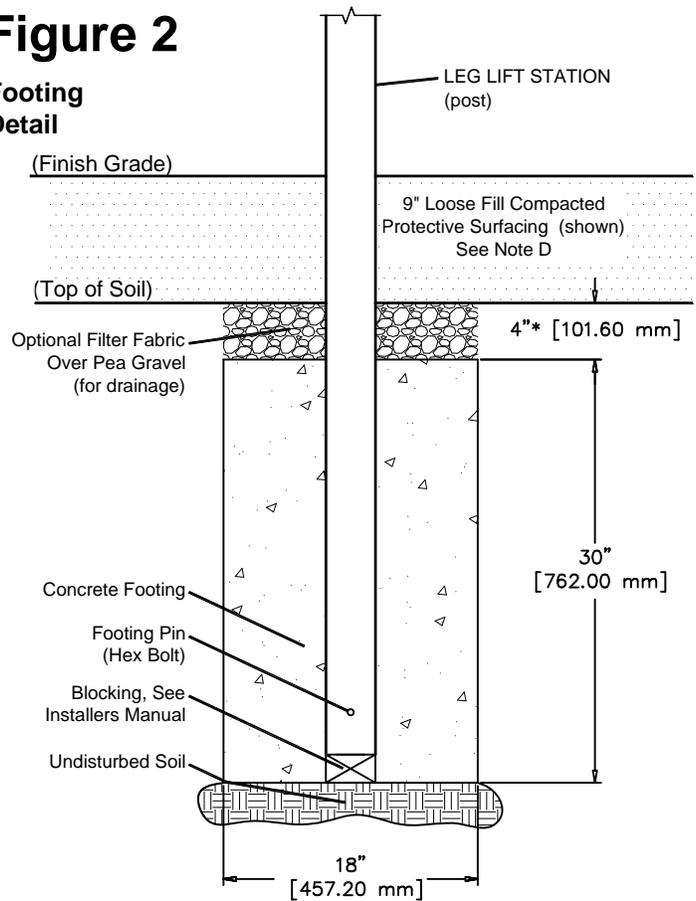
**Figure 1**

**Footing Pin Connection**



**Figure 2**

**Footing Detail**



\*Adjust Footing Depth compensating for protective surfacing depth and chosen blocking material.

## Parts List

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
008107	Collar R35 (Half)	4
FS-PC2592	Leg Lift (Handle)	2
S-1011-R35	Post R3.5" 11 FT. w/ Dome Cap	1
See Pg R35-11	Socket Clamp Assembly	4
9123231	Bolt Hex 3/8" x 5-1/2"	1
9271062	Screw Tek 1/4" x 1-1/4" HX WH	4
9281062-5	Screw Soc HD CS 1/4" x 1-3/8"	4
9333602	Washer Flat 6 mm	4
9483602	Nut Hex 3/8"	1

## Assembled Parts List

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
008135	Post Cap R35 Dome	1
9610012	Rivet 3/16" x 1/2" to 3/4" Pop	1

## Specifications

### R35 LOOP TRIANGLE:

Shall be formed from 1.315" O.D., 12 ga. steel tubing. The R35 Loop Triangle has a multi-stage baked-on powder coat finish.

### POST R35:

Shall be made from 3.5" O.D., 11 ga. galvanized steel tubing. The Post R35 has a multi-stage baked-on powder coat finish.

### POST CAP R35 DOME:

Shall be precision die-cast from a high strength aluminum alloy. The Post Cap has a multi-stage baked-on powder coat finish.

### COLLARS:

Shall be two-part and precision die-cast from a high strength alluminum alloy. The Collars have a multi-stage baked-on powder coat finish.

### HARDWARE:

Shall be stainless steel, zinc/nickel plated or galvanized as required to resist rust and corrosion.

## Installation

### Step 1.

Refer to Footing Layout and mark footing hole location. Dig (1) 18"Ø footing hole. Refer to Figure 2 for depth and details. **IMPORTANT:** For areas with soft soil conditions, larger footings may be required.

### Step 2.

Attach Footing Pin. Refer to Figure 1 for hardware type and orientation. Set the Leg Lift Station post into footing hole. Plumb and level post. Block and brace prior to pouring concrete into hole. Refer to Figure 2 for details. Allow 72 hours to cure before using this equipment. See Note A.

### Step 3.

Attach Collars to Leg Lift Post. Refer to Elevation View for heights and orientation. See Assembly Page R3.5-09 Collars for hardware type and orientation.

### Step 4.

Attach Leg Lift Handles to Collar. See Assembly Page R3.5-11 Socket Clamps for hardware type and orientation.

### Step 5.

Place appropriate compliant protective surfacing under and around Leg Lift Station post. See Note D.

## Maintenance

Periodically tighten all screws, bolts and nuts. A periodic inspection of all parts is necessary. If a part is broken or worn, replace immediately. For general maintenance please refer to our Playground Maintenance Manual.



# CUSTOM ROUND 5 MODULAR PLAYSYSTEM

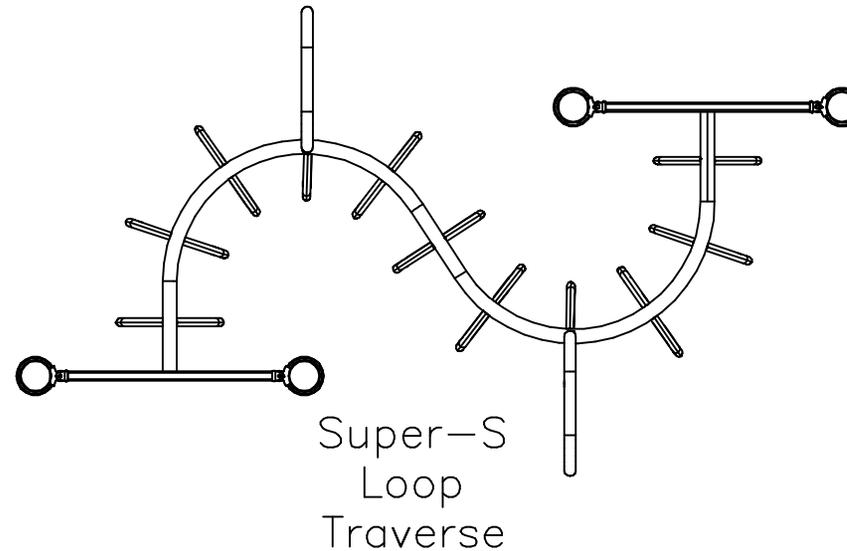
Top View

## ADA ACCESSIBILITY GUIDELINE - ADAAG CONFORMANCE:

THIS DESIGN WILL MEET ADAAG AND ASTM F 1487-07a e1 REQUIREMENTS FOR ACCESS WITH THE ADDITION OF 0 GROUND LEVEL EVENTS (0 TYPES) WHEN PROPERLY INSTALLED OVER ACCESSIBLE SURFACING. SEE SITE PLAN FOR ADDITIONAL GROUND LEVEL EVENTS.

ELEVATED	ACCESSIBLE	RAMP ACCESSIBLE	GROUND	TYPES
0	0/0	0/0	1/0	1/0

FOR KIDS  
AGES  
5-12



### GENERAL NOTES:

- IT IS KRAUSS CRAFT, INC.'S OPINION THAT THE PRODUCT(S) SHOWN IN THIS PROPOSAL MEET OR EXCEED THE DESIGN AND SAFETY GUIDELINES FOUND IN THE ASTM F1487 AND USCPSC PUBLICATIONS FOR PLAYGROUND EQUIPMENT DESIGNED FOR PUBLIC USE.
- THIS CONCEPTUAL PLAN IS BASED ON INFORMATION PROVIDED TO US PRIOR TO CONSTRUCTION. DETAILED SITE INFORMATION, INCLUDING THE FOLLOWING, SHOULD BE OBTAINED, EVALUATED, AND UTILIZED IN THE FINAL PROJECT DESIGN: EXACT SITE DIMENSIONS, TOPOGRAPHY, EXISTING UTILITIES, SOIL CONDITIONS AND DRAINAGE SOLUTIONS.
- **WARNING:** ACCESSIBLE SAFETY SURFACING MATERIAL IS REQUIRED BENEATH AND AROUND THIS EQUIPMENT THAT HAS A CRITICAL HEIGHT VALUE (FALL HEIGHT) APPROPRIATE FOR THE HIGHEST ACCESSIBLE PART OF THIS EQUIPMENT. REFER TO THE CPSC'S HANDBOOK FOR PUBLIC PLAYGROUND SAFETY, SECTION 4: SURFACING.

PR#: 5492AA  
Date: 07/09/12  
Drawn By: KLF

**NELSON ENGLISH/WILLIE WARD PARK TRAVERSE**  
Advanced Recreational Concepts

Dimensions: 12' x 07'  
Min. Use Zone: 24' x 19'  
Scale: 3/8" = 1'-0"



# CUSTOM ROUND 5 MODULAR PLAYSYSTEM

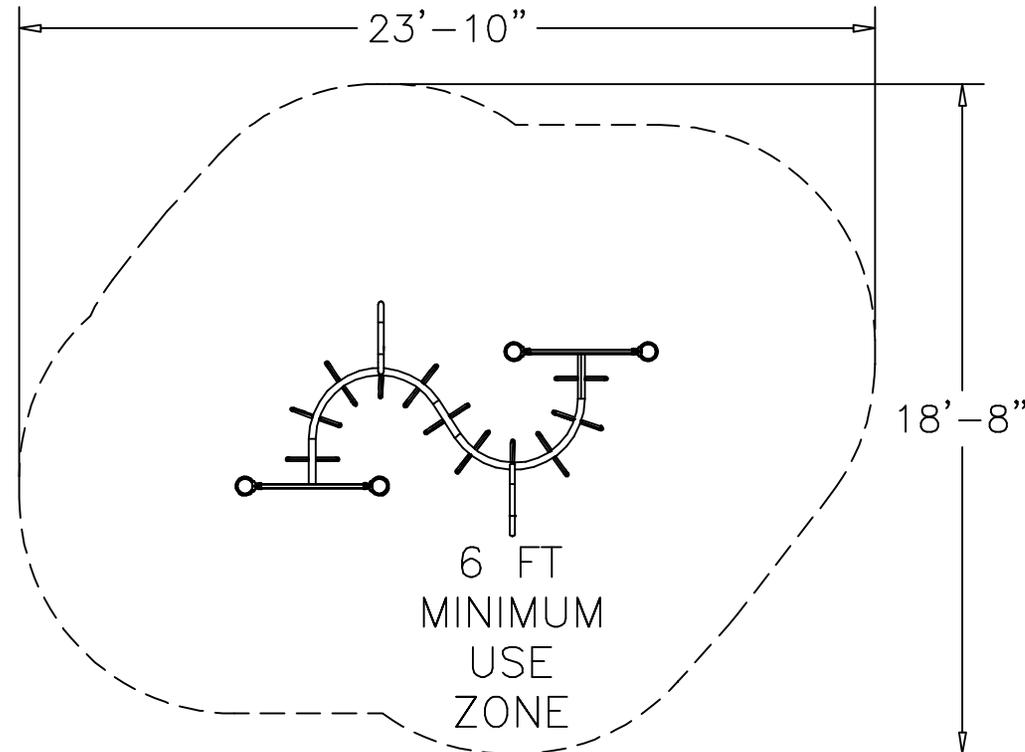
Site Plan (Preliminary)

## ADA ACCESSIBILITY GUIDELINE - ADAAG CONFORMANCE:

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ELEVATED	ACCESSIBLE	RAMP ACCESSIBLE	GROUND	TYPES
0	0/0	0/0	1/0	1/0

FOR KIDS  
AGES  
5-12



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PR#: 5492AA  
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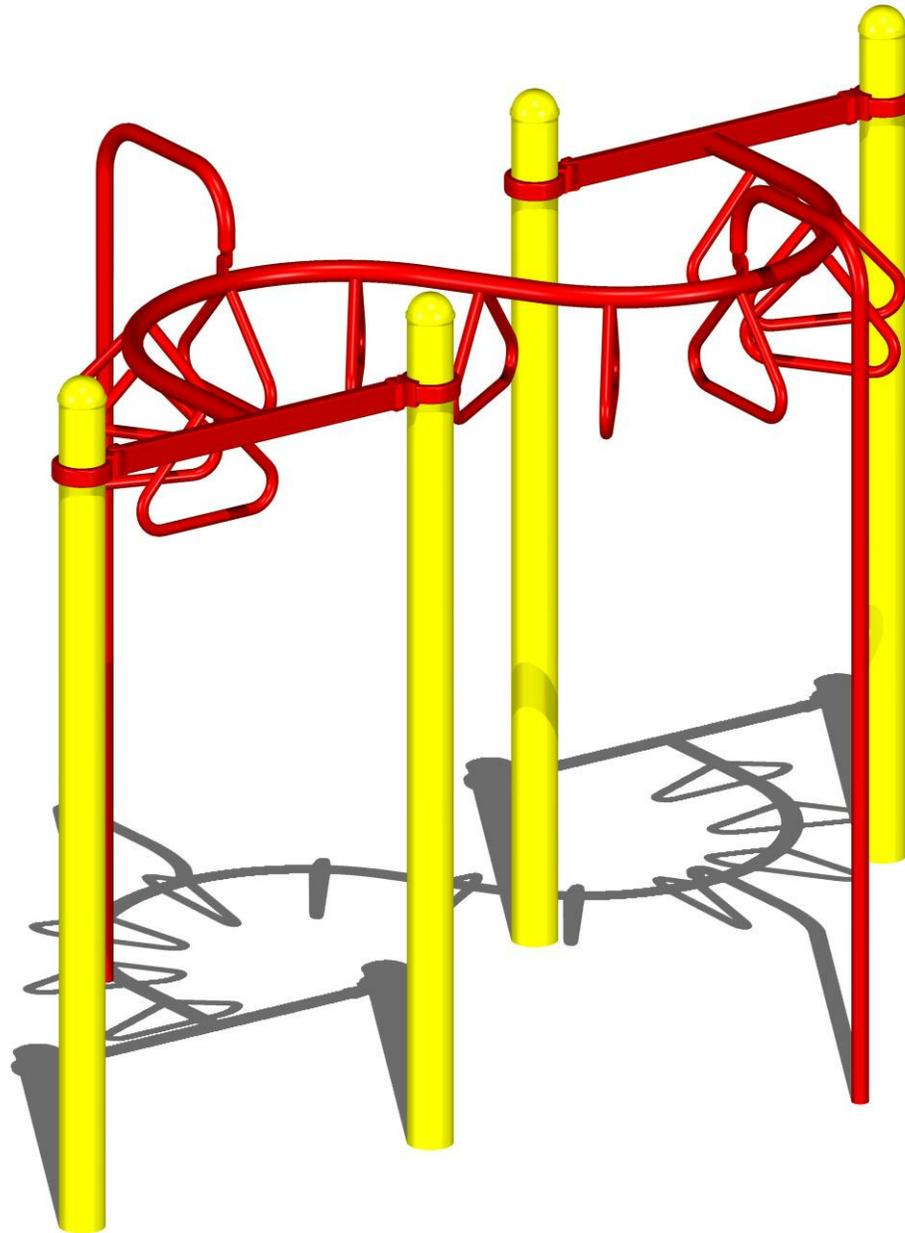
**NELSON ENGLISH/WILLIE WARD PARK TRAVERSE**  
Advanced Recreational Concepts

Scale: 3/16" = 1'-0"



# CUSTOM ROUND 5 MODULAR PLAYSYSTEM

Front Perspective



PR#: 5492AA  
Date: 07/09/12  
Drawn By: KLF

**NELSON ENGLISH/WILLIE WARD PARK TRAVERSE**  
Advanced Recreational Concepts



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# CUSTOM ROUND 3.5 MODULAR PLAYSYSTEM

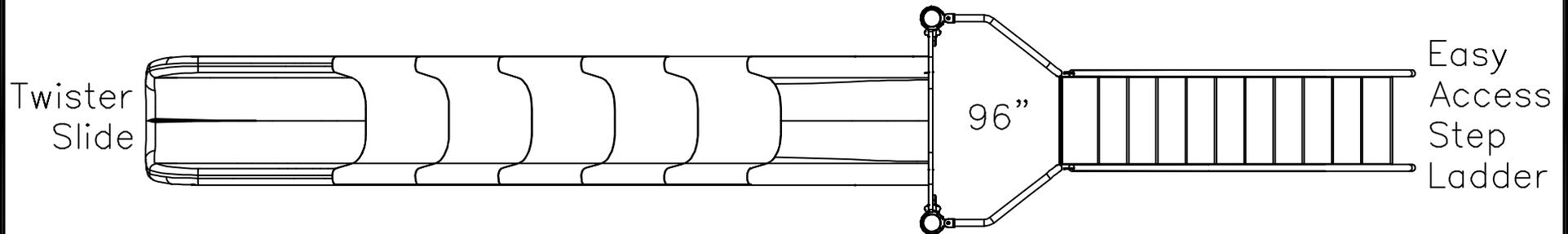
Top View

## ADA ACCESSIBILITY GUIDELINE - ADAAG CONFORMANCE:

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ELEVATED	ACCESSIBLE	RAMP ACCESSIBLE	GROUND	TYPES
0	0/0	0/0	1/0	1/0

FOR KIDS  
AGES  
5-12



### GENERAL NOTES:

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- **WARNING:** ACCESSIBLE SAFETY SURFACING MATERIAL IS REQUIRED BENEATH AND AROUND THIS EQUIPMENT THAT HAS A CRITICAL HEIGHT VALUE (FALL HEIGHT) APPROPRIATE FOR THE HIGHEST ACCESSIBLE PART OF THIS EQUIPMENT. REFER TO THE CPSC'S HANDBOOK FOR PUBLIC PLAYGROUND SAFETY, SECTION 4: SURFACING.

PR#: D5535A  
Date: 07/09/12  
Drawn By: KLF

**NELSON ENGLISH/WILLIE WARD PARK SLIDE**  
Advanced Recreational Concepts

Dimensions: 22' x 04'  
Min. Use Zone: 34' x 16'  
Scale: 3/8" = 1'-0"



# CUSTOM ROUND 3.5 MODULAR PLAYSYSTEM

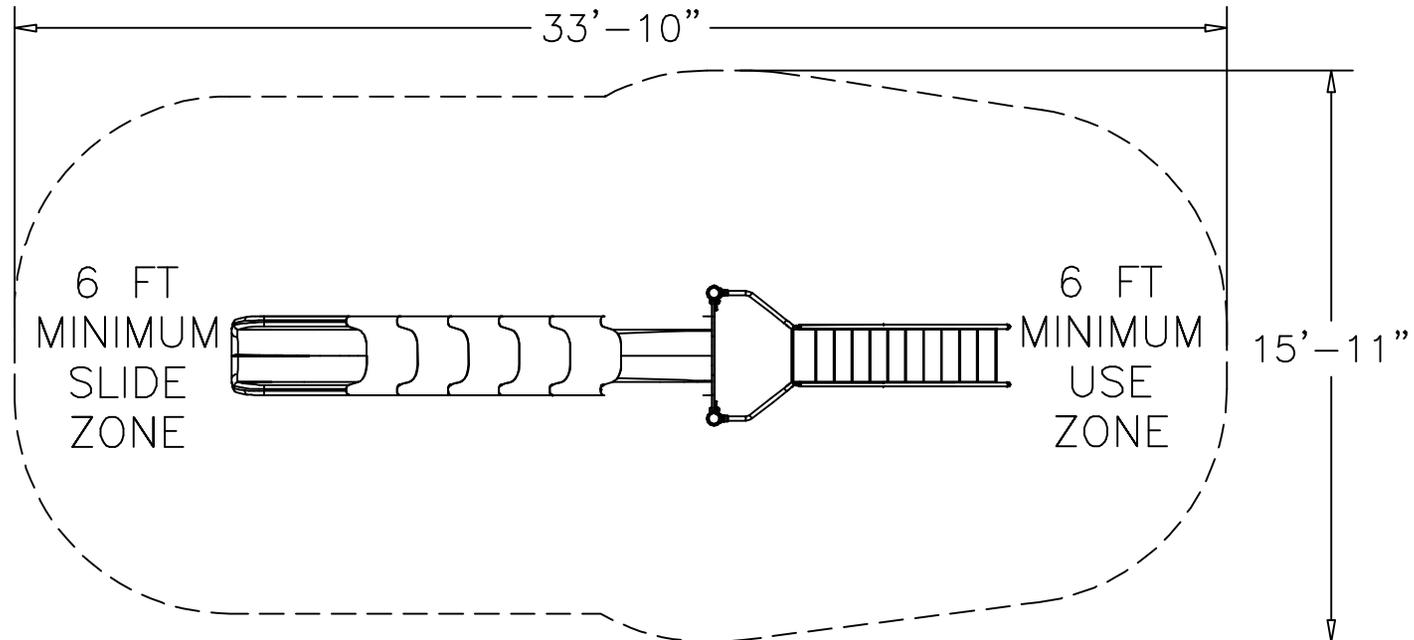
Site Plan (Preliminary)

## ADA ACCESSIBILITY GUIDELINE - ADAAG CONFORMANCE:

THIS DESIGN WILL MEET ADAAG AND ASTM F 1487-07a e1 REQUIREMENTS FOR ACCESS WITH THE ADDITION OF 0 GROUND LEVEL EVENTS (0 TYPES) WHEN PROPERLY INSTALLED OVER ACCESSIBLE SURFACING.

ELEVATED	ACCESSIBLE	RAMP ACCESSIBLE	GROUND	TYPES
0	0/0	0/0	1/0	1/0

FOR KIDS  
AGES  
5-12



### GENERAL NOTES:

- THE SITE PLAN SHOWN IS BASED ON MEASUREMENTS THAT WERE PROVIDED TO KRAUSS CRAFT, INC. AT THE TIME OF THE PROPOSAL REQUEST. ALL DIMENSIONS MUST BE VERIFIED PRIOR TO THE SUBMISSION OF A PURCHASE ORDER. KRAUSS CRAFT, INC. WILL NOT BE RESPONSIBLE FOR ANY DISCREPANCIES BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS SUBMITTED ON A PROPOSAL REQUEST.
- THE MINIMUM USE ZONE FOR THE PLAY STRUCTURE IS BASED ON THE PRODUCT DESIGN AT THE TIME OF THE PROPOSAL. COMPONENTS AND STRUCTURE DESIGN MAY BE SUBJECT TO CHANGE WHICH MAY AFFECT DIMENSIONS. THEREFORE, BEFORE PREPARING SITE, WE STRONGLY RECOMMEND OBTAINING FINAL DRAWINGS FROM THE FACTORY (AVAILABLE AFTER THE ORDER IS PLACED AND INCLUDED IN THE ASSEMBLY MANUAL).
- **WARNING:** ACCESSIBLE SAFETY SURFACING MATERIAL IS REQUIRED BENEATH AND AROUND THIS EQUIPMENT THAT HAS A CRITICAL HEIGHT VALUE (FALL HEIGHT) APPROPRIATE FOR THE HIGHEST ACCESSIBLE PART OF THIS EQUIPMENT. REFER TO THE CPSC'S HANDBOOK FOR PUBLIC PLAYGROUND SAFETY, SECTION 4: SURFACING.

PR#: D5535A  
Date: 07/09/12  
Drawn By: KLF

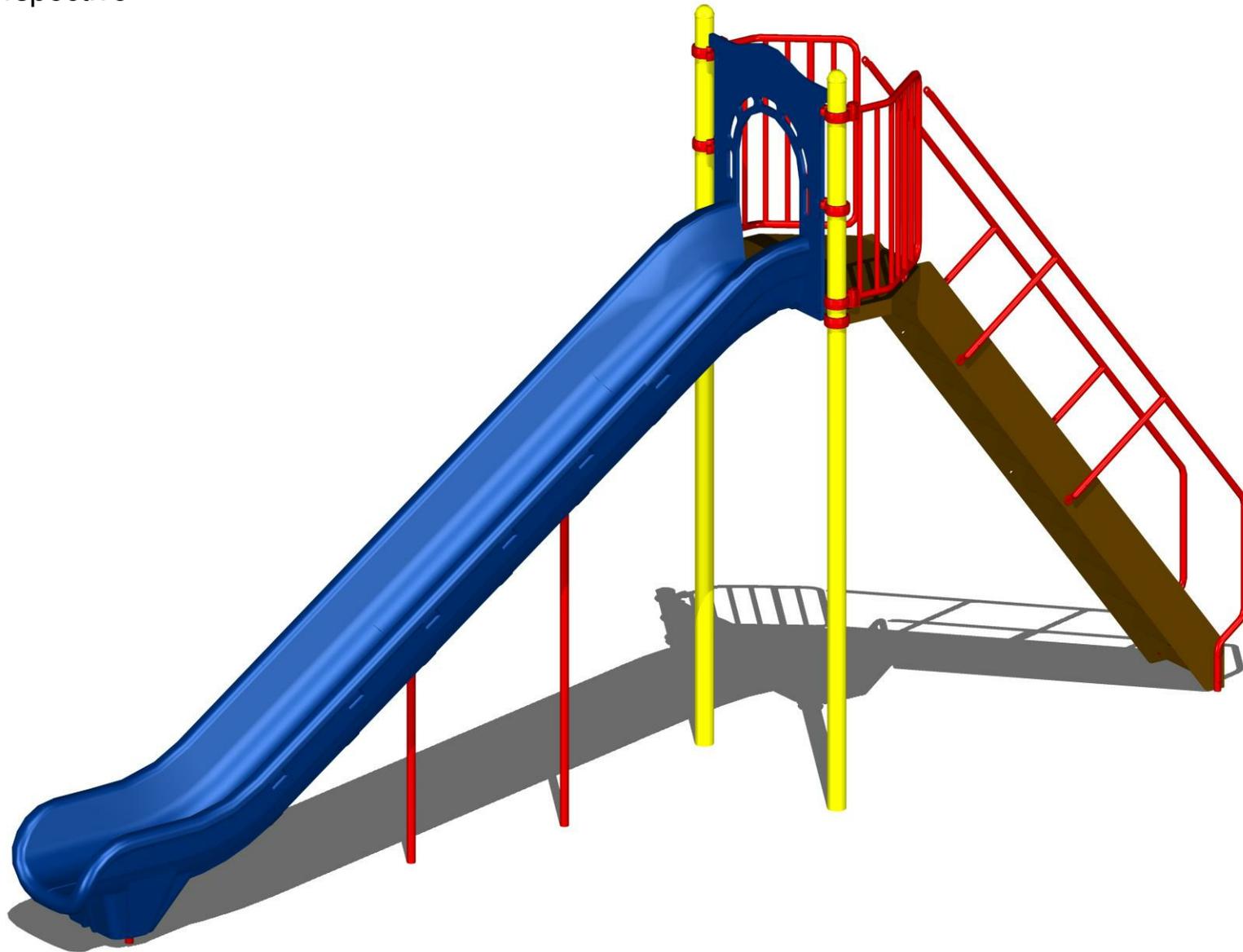
**NELSON ENGLISH/WILLIE WARD PARK SLIDE**  
Advanced Recreational Concepts

Scale: 3/16" = 1'-0"



# CUSTOM ROUND 3.5 MODULAR PLAYSYSTEM

Front Perspective



PR#: D5535A  
Date: 07/09/12  
Drawn By: KLF

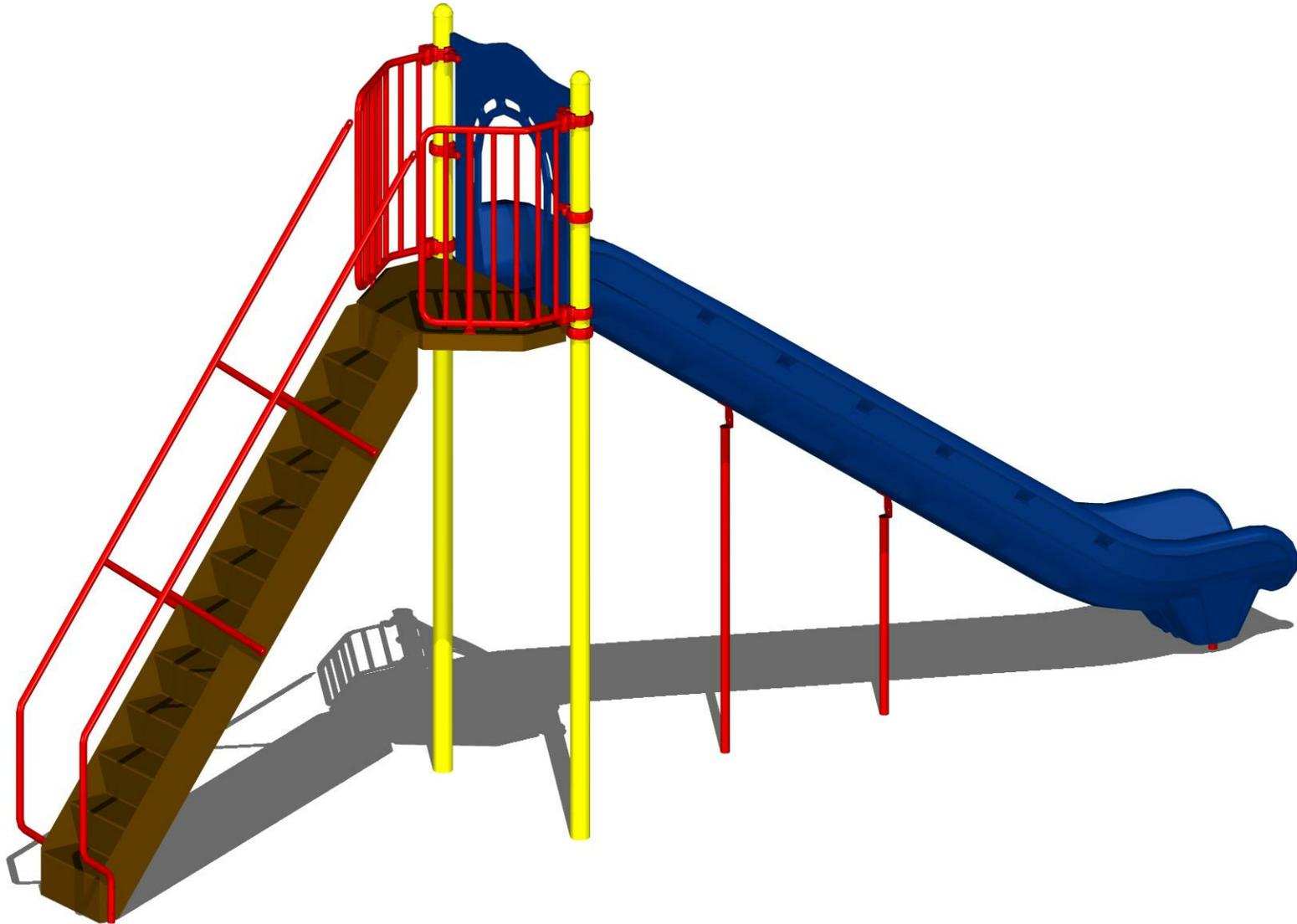
**NELSON ENGLISH/WILLIE WARD PARK SLIDE**  
Advanced Recreational Concepts



123 NORTH VALLEY DRIVE  
GRANTS PASS, OR 97526  
PH: 541-955-9199  
FAX: 541-955-6130  
[www.playcraftsystems.com](http://www.playcraftsystems.com)

# CUSTOM ROUND 3.5 MODULAR PLAYSYSTEM

Back Perspective



PR#: D5535A  
Date: 07/09/12  
Drawn By: KLF

**NELSON ENGLISH/WILLIE WARD PARK SLIDE**  
Advanced Recreational Concepts



123 NORTH VALLEY DRIVE  
GRANTS PASS, OR 97526  
PH: 541-955-9199  
FAX: 541-955-6130  
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**DIVISION 6**

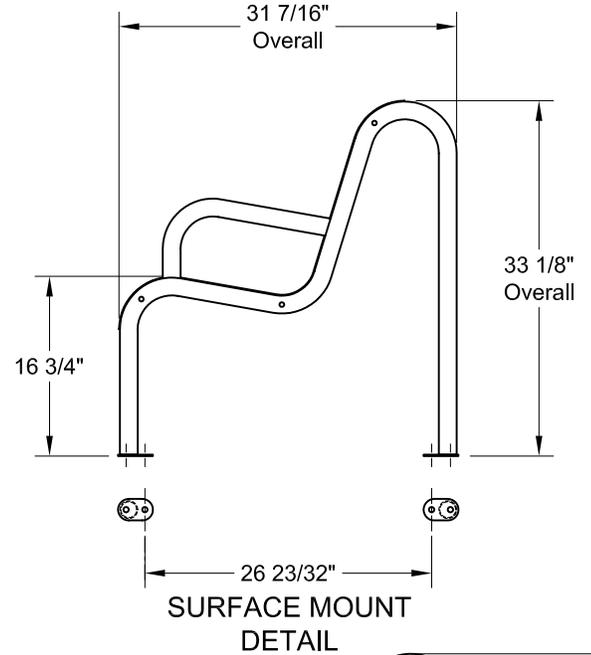
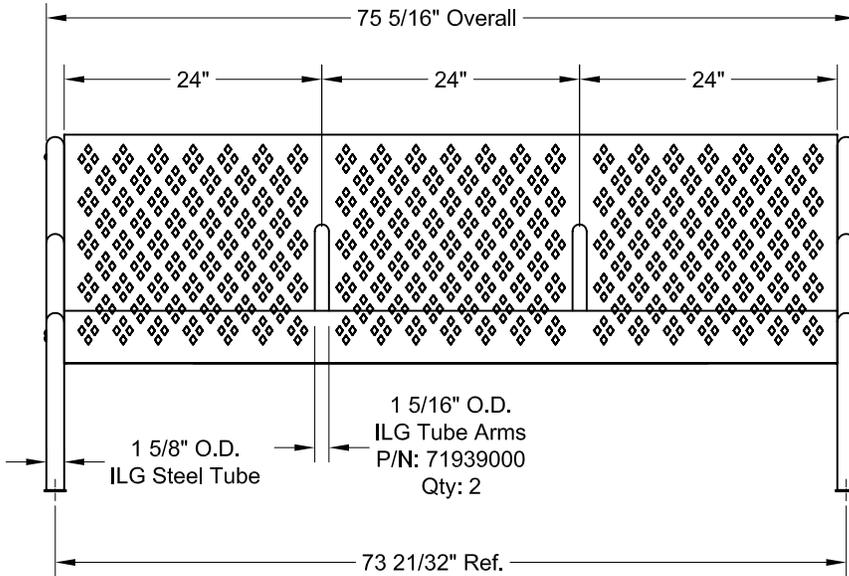
**PARK EQUIPMENT**

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# METRO M1 Series Bench, 6 ft. with Intermediate Arms Specifications



## TUBULAR STEEL FRAMES:

1.66" outside diameter, 0.095" thick wall, Allied in-line, galvanized steel tubing tested in compliance with ASTM-A-135, or a-513 standards.

## PERFORATED STEEL (Diamond Pattern Shown):

13 ga. Sheet Steel, 11 ga. Steel support webs and brackets, 3/16" x 1-1/2" bar

## STEEL FINISH:

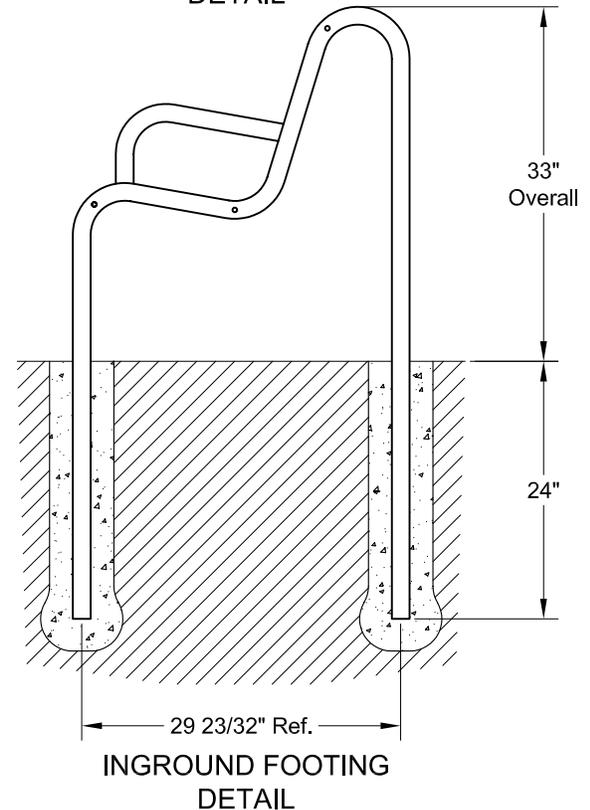
Polyester powder coat.  
(Polyethylene thermo plastic finish optional.)

## HARDWARE:

Stainless Steel Security Drive

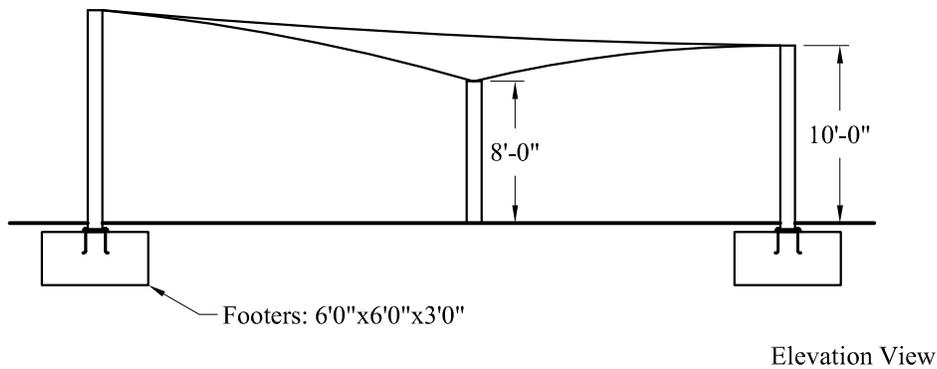
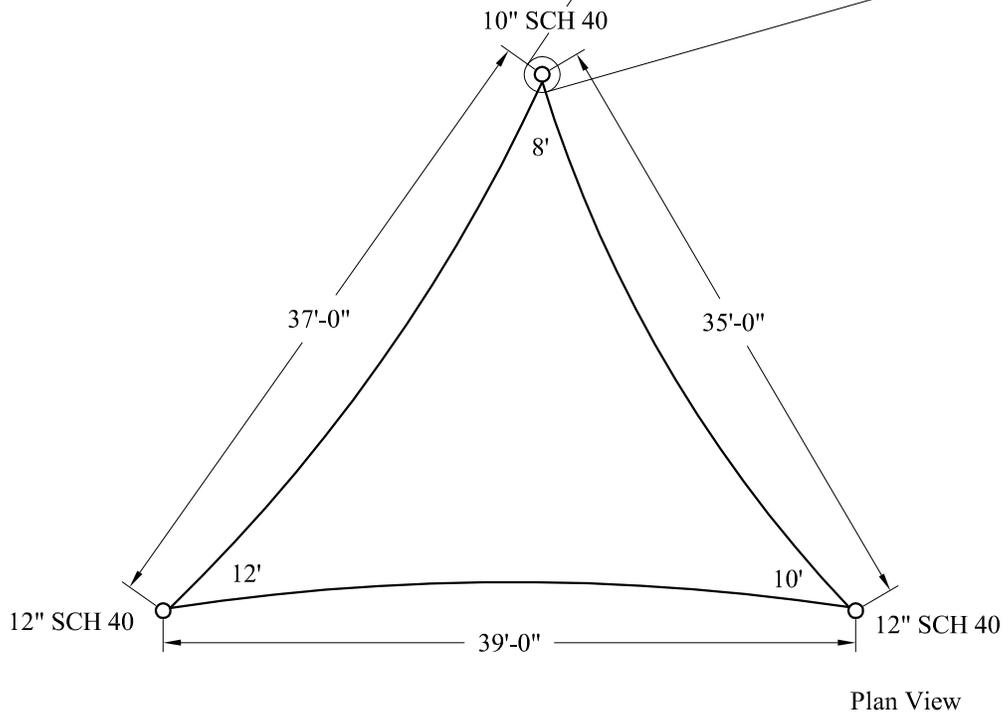
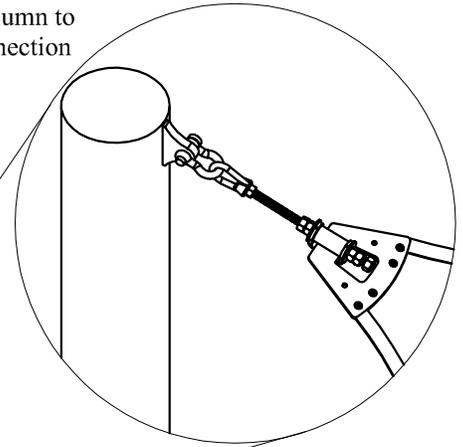
## Note:

Dimensions shown in inches.  
We have endeavoured to insure that all product specifications listed on this document were correct at time of publication.  
We reserve the right to improve, alter, or discontinue specifications without notice.





Typical Column to Fabric Connection

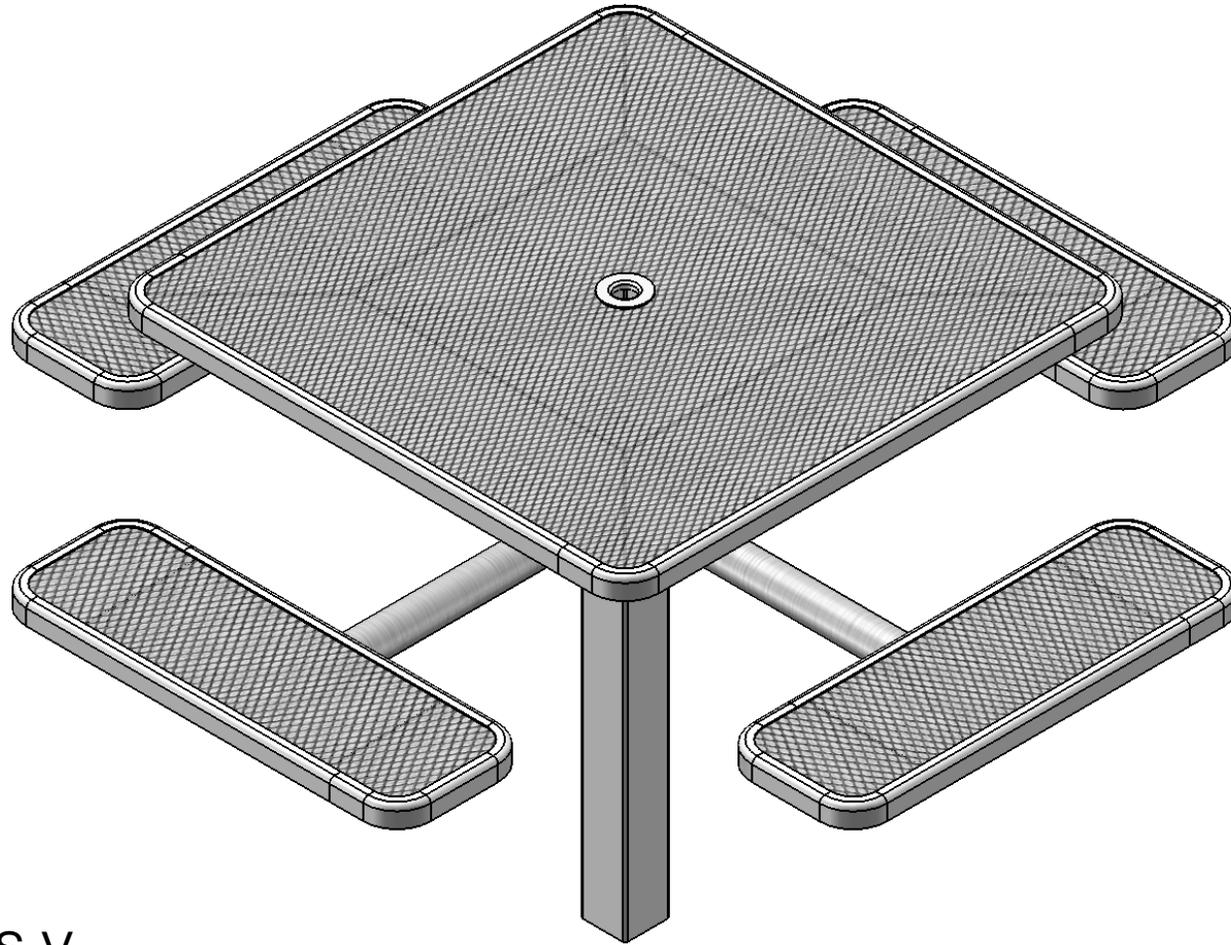


**Additional Notes:**

These drawings are for reference only and should not be used as construction details. They show the general character and rough dimensions of the structural features. Exact spans, fasteners, materials, and foundations can be determined by a licensed structural engineer upon request.

# ultra site™

A PLAYCORE® Company



Model # 338S-V



A PLAYCORE company

1675 Locust Street  
Red Bud, IL 62278  
Phone: 618-282-8200  
Fax: 618-282-8202

## WARRANTY & TERMS

**WARRANTY: 5 Year Limited Warranty on Thermoplastic coated elements.** Ultra Play guarantees all items for one full year to be free of defects in workmanship or materials when installed and maintained properly. We agree to repair or replace, any items determined to be defective. Items specifically not covered by this warranty include vandalism, man made or natural disasters, lack of maintenance, normal weathering or wear and tear due to public abuse.

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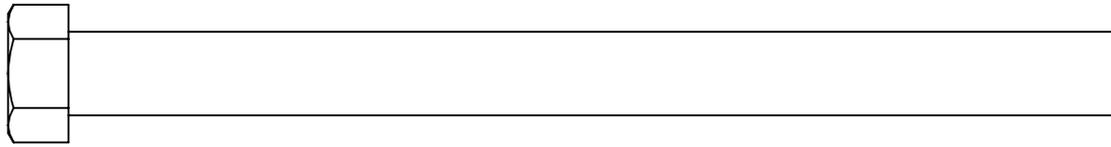


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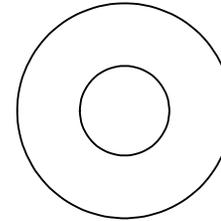
## **SAFETY WARNINGS & EQUIPMENT INSPECTION**

- Owners and installers please note these safety warnings and make use of this checklist on a regular basis.
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- Ground surfaces around equipment should be restored as needed. Concrete footings should never be exposed. Surface depth should comply with ASTM and CPSC specifications.
- Check for and repair damage caused by wear or vandalism, a major factor in injury causing situations.
- All protruding bolts should be covered or cut off and finished smooth. Sharp edges on pipes should be capped or removed. Check for bent, broken, or severely worn pipe, and replace.
- All equipment should be free of rust and repainted whenever necessary to deter rusting.
- We provide our customers with layout sheets and installation instructions. Please keep on file the specifications sheet that contains the listing of every part used.
- Never add components not intended for use with this product.
- Regular maintenance is necessary in this and all park and recreational equipment to insure the safety of the user.
- Note: Proper maintenance of equipment requires regular tightening of all bolts, nuts, and setscrews.
- Note: Regular checking of all parts, castings, etc. should be made. If a part is broken or worn, it should be replaced immediately.
- Check to be sure all fittings are tight and that bars and pipes do not move.
- Replace all worn S-hooks. S-hooks must be completely closed. Failure to close S-hooks can result in serious injury to the user. NEVER reuse S-hooks.
- Test for free movement of swing hanger and other moving attached parts.
- Check for worn chains and replace them.
- A soft resilient surface should be placed under all swings extending at least twice the height of the top rail both front and back.

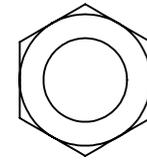
# HARDWARE



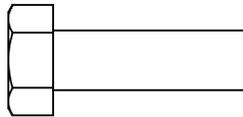
7/16" x 5-1/2"  
Machine Bolt



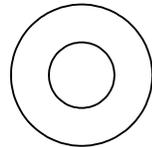
7/16" Washer



7/16" Hex Nut



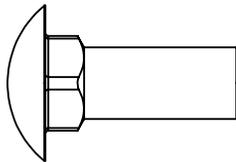
5/16" x 1"  
Machine Bolt



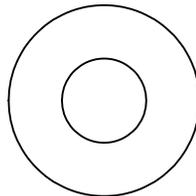
5/16" Washer



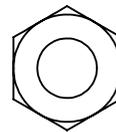
5/16" Kep Nut



3/8" x 1"  
Carriage Bolt

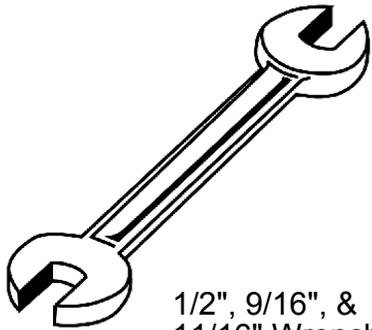


3/8" Washer

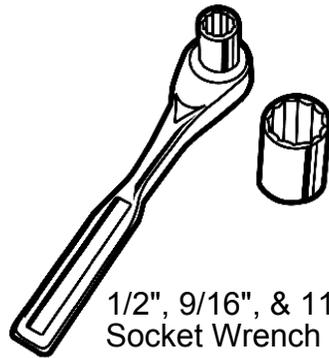


3/8" Hex Nut

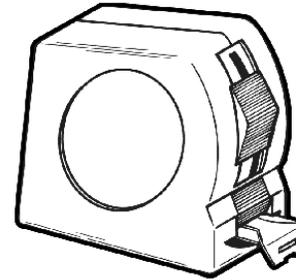
## TOOLS REQUIRED



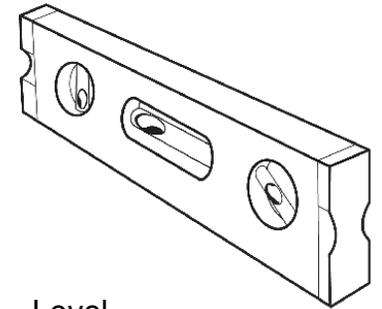
1/2", 9/16", &  
11/16" Wrench



1/2", 9/16", & 11/16"  
Socket Wrench



Tape Measure



Level

# ULTRA SITE PRODUCT SPECIFICATIONS

## **338S-V 46" SQUARE INGROUND TABLE WITH 4 SEATS**

Top & Seats: 11 gauge die formed angle frame 1"x1-7/8" with 3" radius corners. 3/4" #9 steel expanded metal. 7 gauge x 1-1/2" flat bar center support and mounting bracket understructure. Top is additionally diagonally supported to the corners with 7 gauge x 1-1/2" flat bar. Electrically MIG welded.

Coating: Oven fused functionalized polyethylene copolymer-based thermoplastic. Fluidized bed coating application with superior mechanical performance, impact resistance and UV-stability.

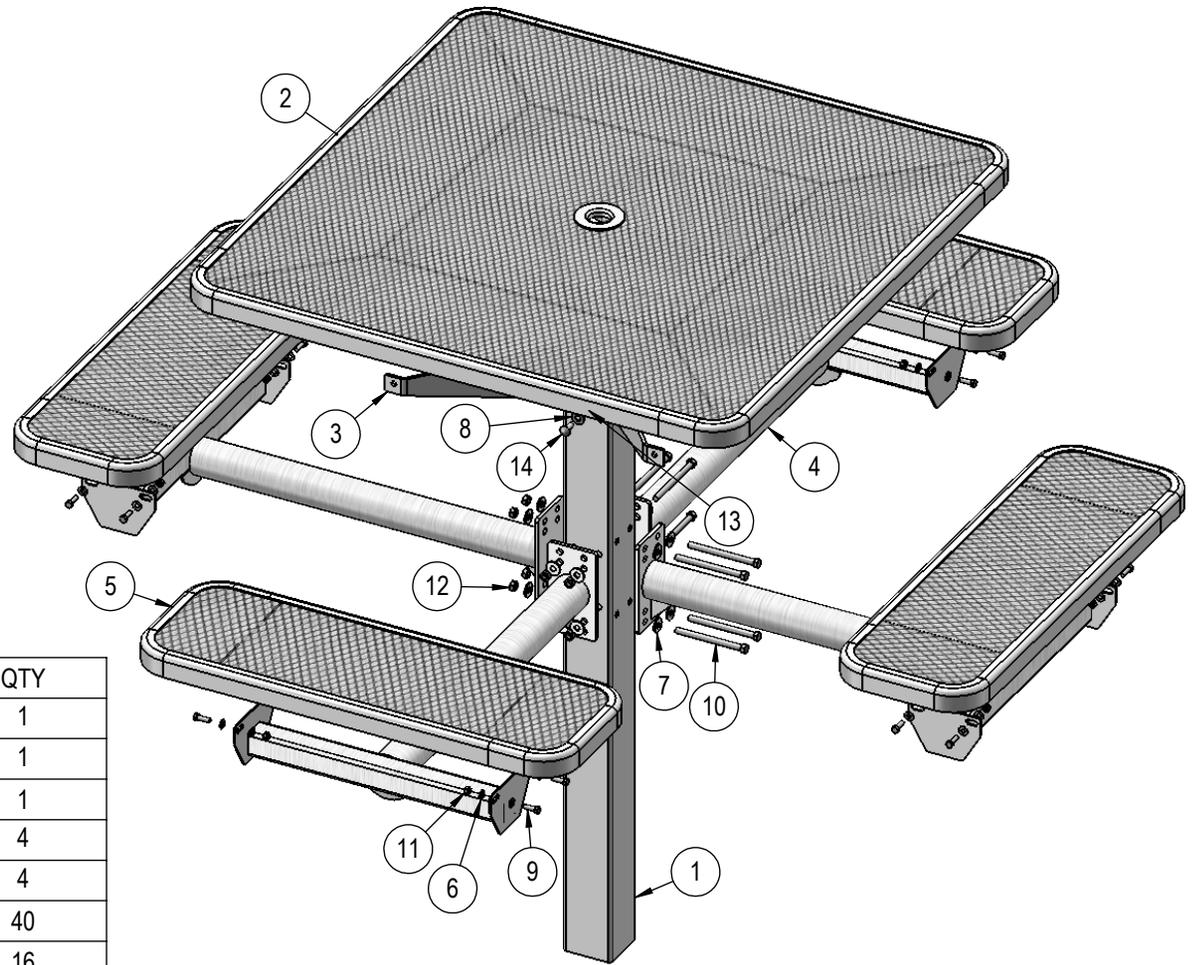
Frame: Main support column is 4"x4"x11 gauge pre-galvanized structural steel tubing. Arms are fabricated from 2-7/8" O.D. x 9 gauge pre-galvanized structural steel tubing welded to 1/4" precision punched plates for attachment to the main column and 2"x2"x3/16" structural steel angle for lateral seat support. Seat attachment points are 10 gauge precision punched tabs. Table top attachment structure is fabricated from 2"x2"x3/16" structural steel angle and top attachment points are 7 gauge x 1-1/2" steel flat bar.

Frame Coating: Electrostatic powder coated application oven cured.

Hardware: All stainless steel hardware fasteners.

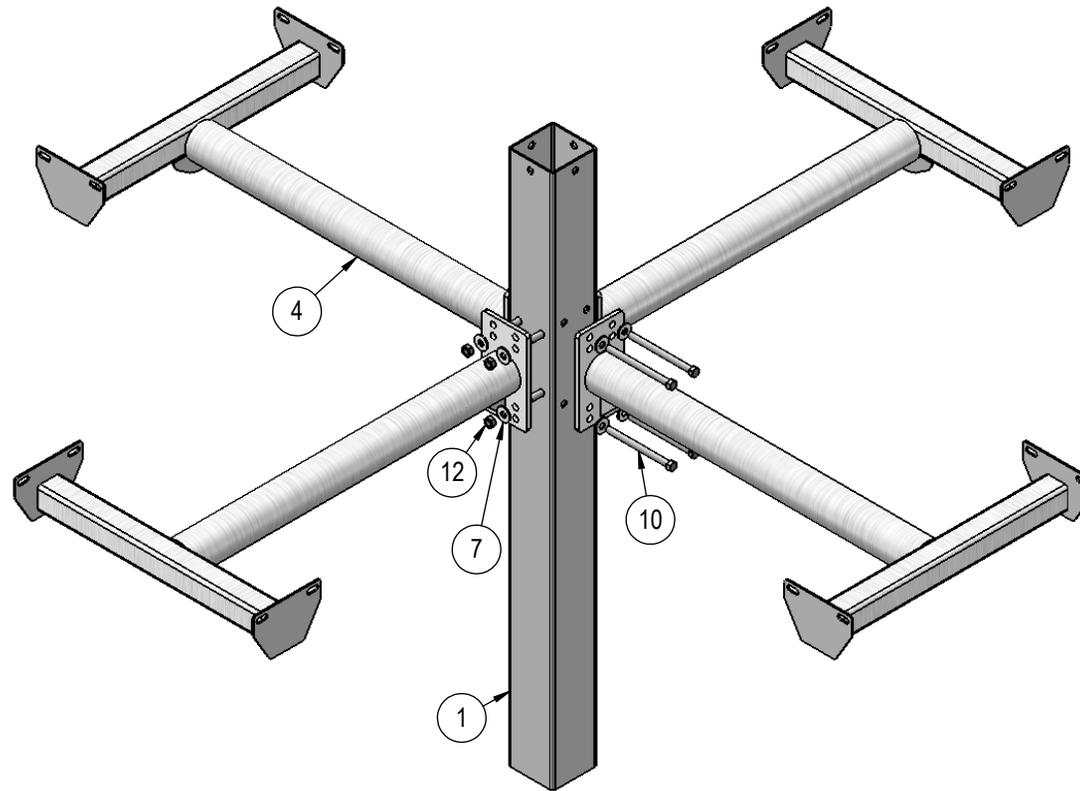
Dimensions: Top is 46" square x 30-1/4" high. Seats are 12" wide x 36" long x 18" high. Outside to outside dimensions of 4 seat table is 76-1/2" square.

# COMPONENTS



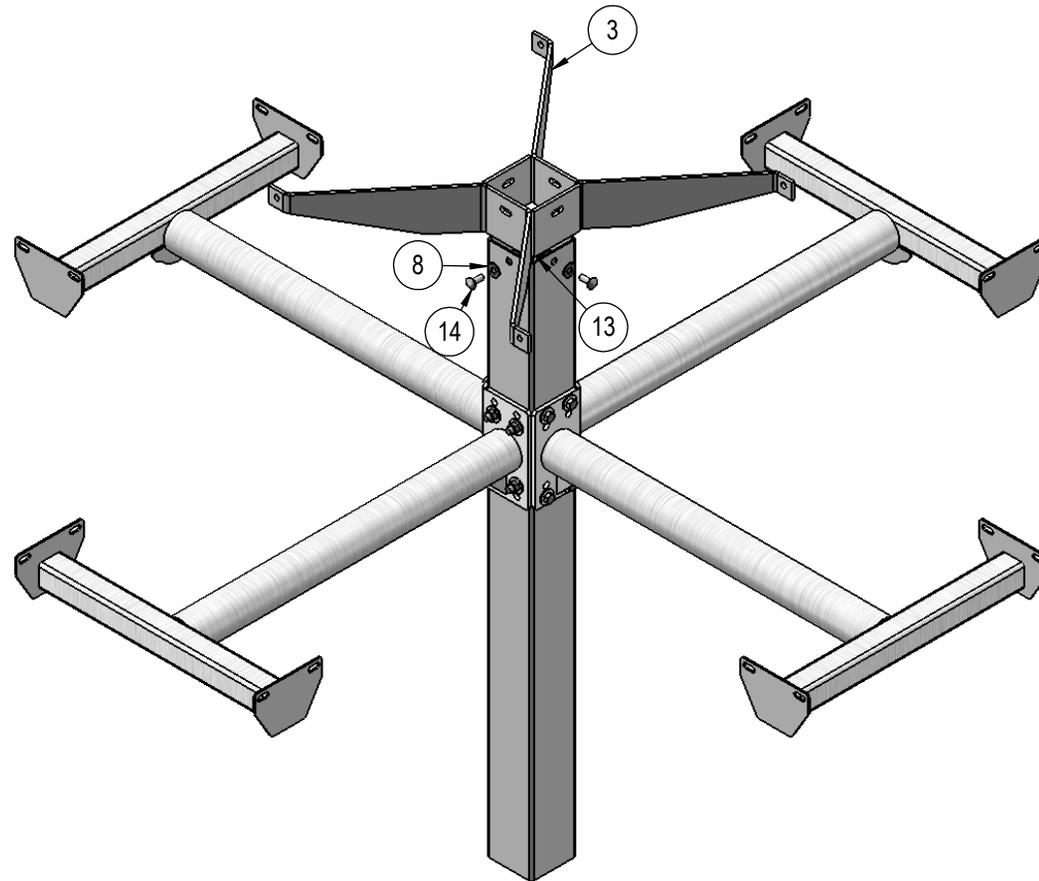
ITEM NO.	PartNo	DESCRIPTION	QTY
1	P-338S or G-338S	338 IG post asem	1
2	T-V46-T	46" Expanded Square Top	1
3	P-01-04-0150	H Bracket	1
4	P-V338-ARM	338 vinyl arm	4
5	T-V36-S	3' Expanded Seat	4
6	33-02-0007	5/16" Flat Washer (SS)	40
7	33-02-0004	7/16" SS Washer	16
8	33-02-0008	3/8" Flat Washer (SS)	8
9	33-05-0029	5/16" x 1" Machine Bolt (SS)	20
10	33-06-0049	7/16" x 5-1/2" Machine Bolt	8
11	33-03-0012	5/16" Kep Nut (SS)	20
12	33-01-0006	7/16" Hex Nut (SS)	8
13	33-01-0018	3/8" Hex Nut (SS)	4
14	33-06-0042	3/8" x 1" Carriage Bolt (SS)	4

# STEP 1



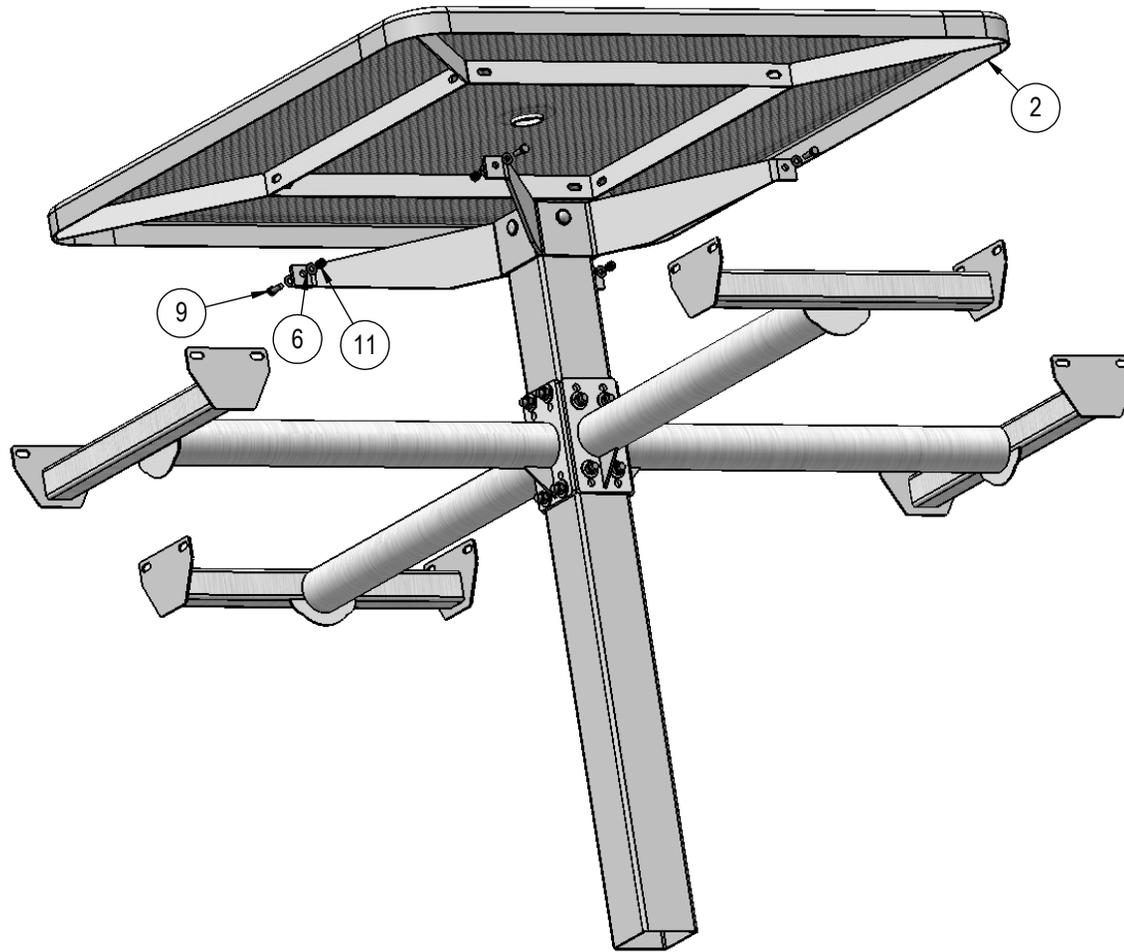
Attach the 338 Vinyl Arms to the 338 Post using specified hardware.

## STEP 2



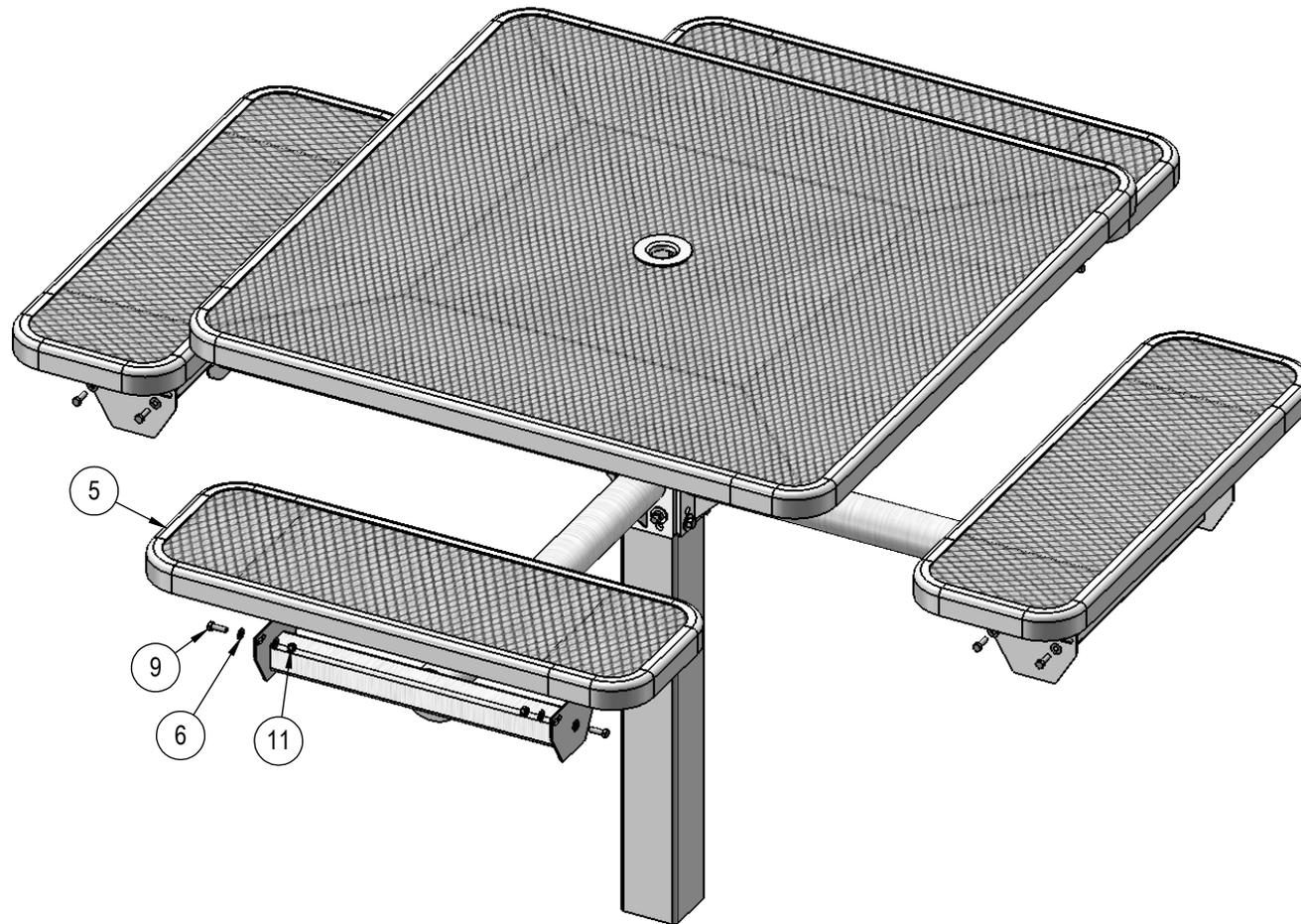
Attach the H Bracket to the 338 Post using specified hardware.

## STEP 3



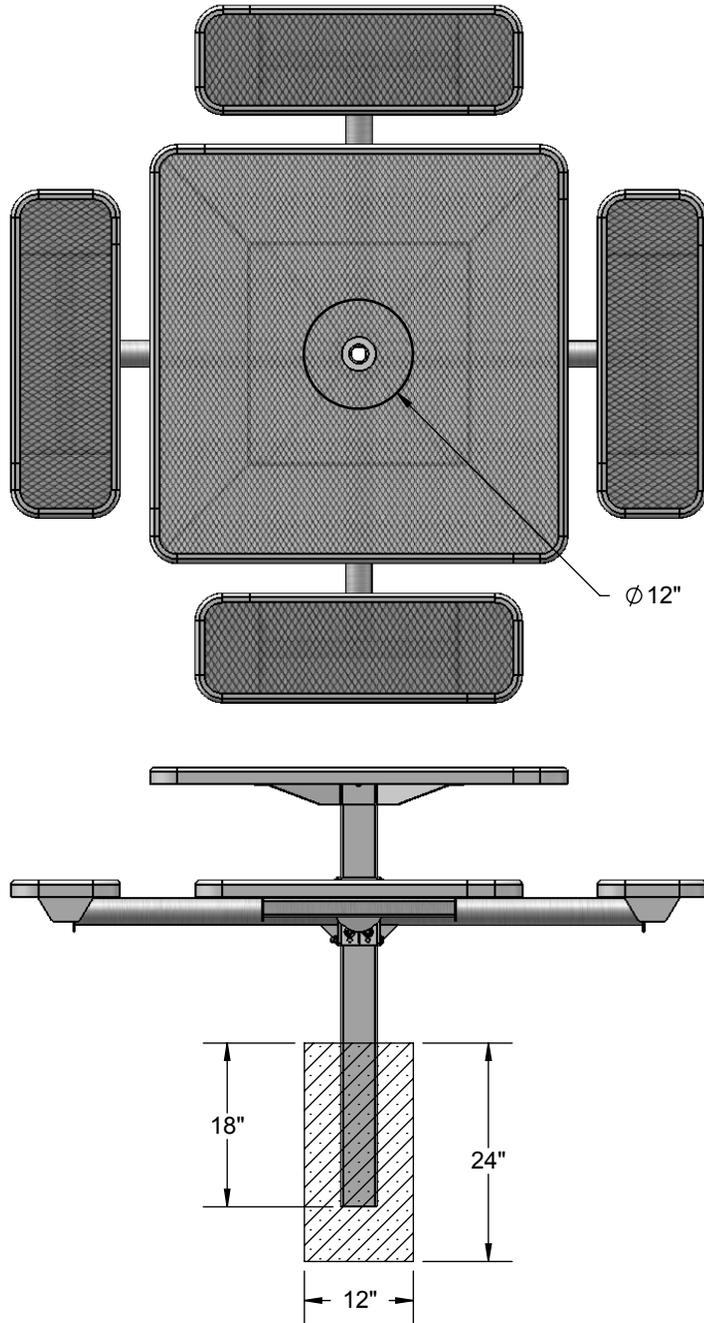
Attach the 46" Square Top to the H Bracket using specified hardware.

## STEP 4



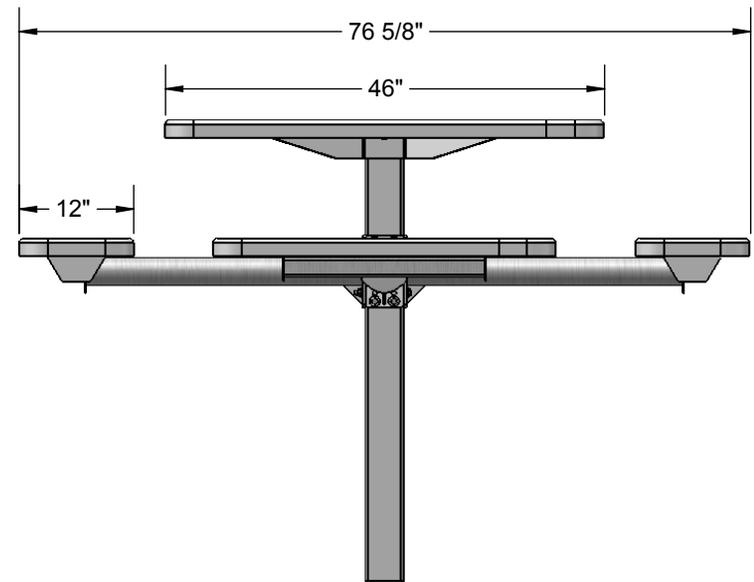
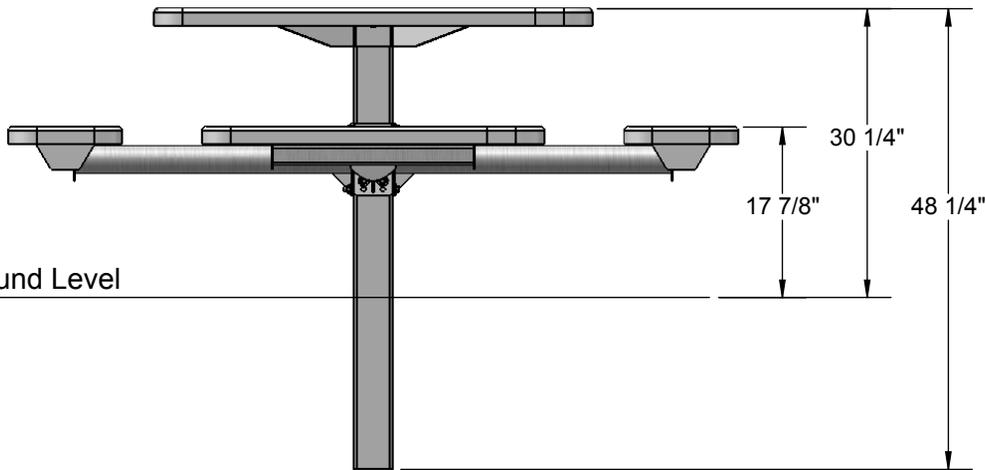
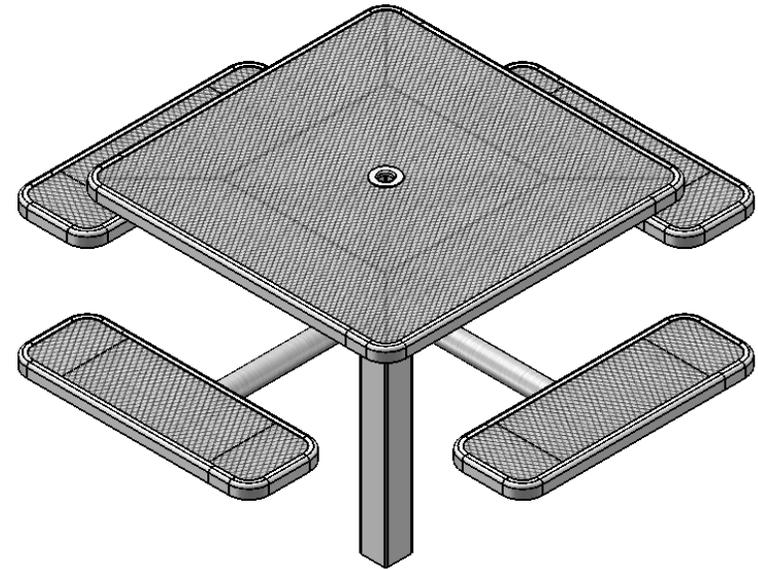
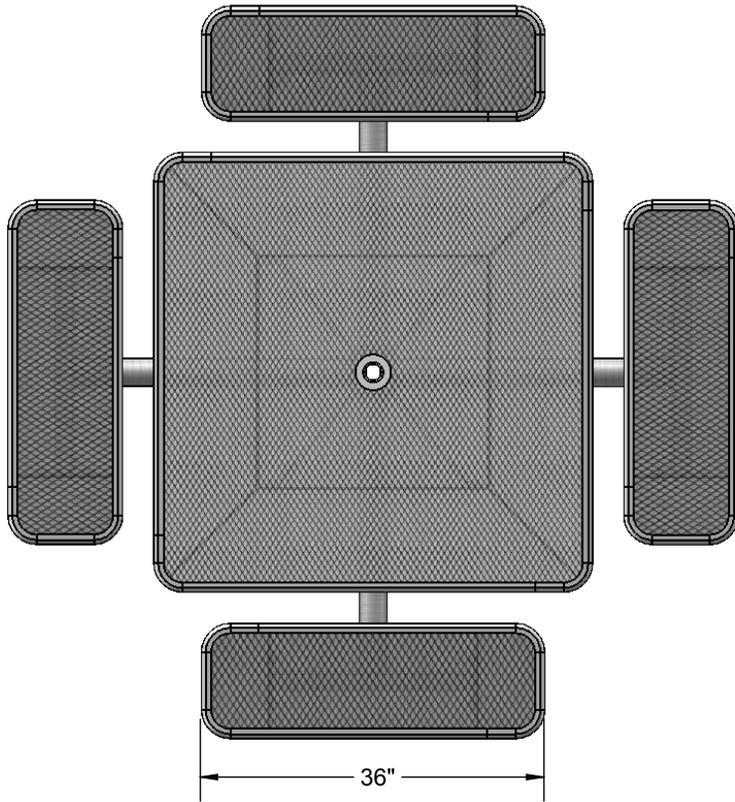
Attach the 3' Seats to the 338 Vinyl Arms using specified hardware.

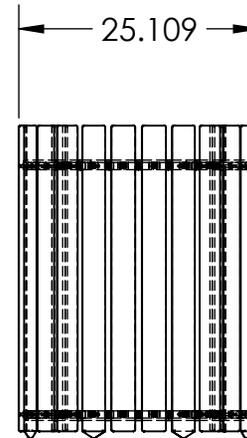
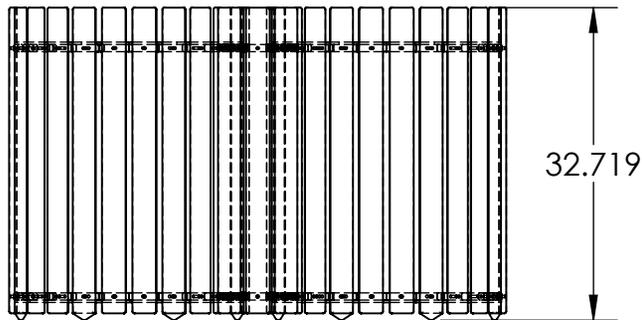
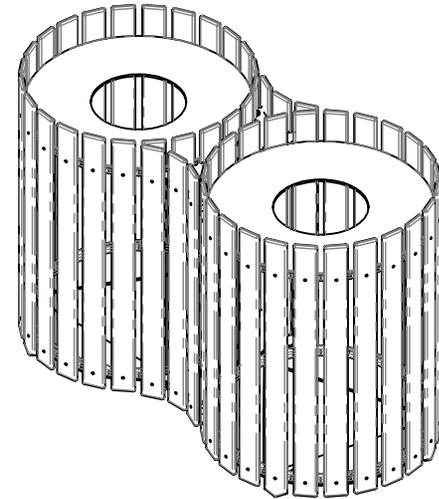
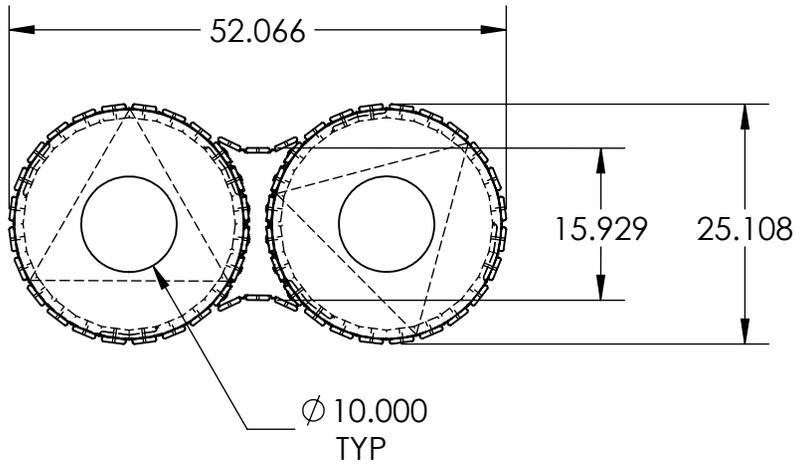
# FOOTINGS



Estimated Required Concrete:  
5 - 50 lb Bags of Concrete Mix

# OVERALL DIMENSIONS





PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF KIRBYBUILT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF KIRBYBUILT IS PROHIBITED.

MATERIAL

NAME

DATE

STOCK SIZE

DRAWN

MRK

10/14/11

DO NOT SCALE DRAWING

SCALE: 1:20

SHEET 1 OF 1

PART NAME:

**32 GALLON RECYCLE  
RECEPTACLE TOP LOAD**

SIZE  
**A**

DWG. NAME:

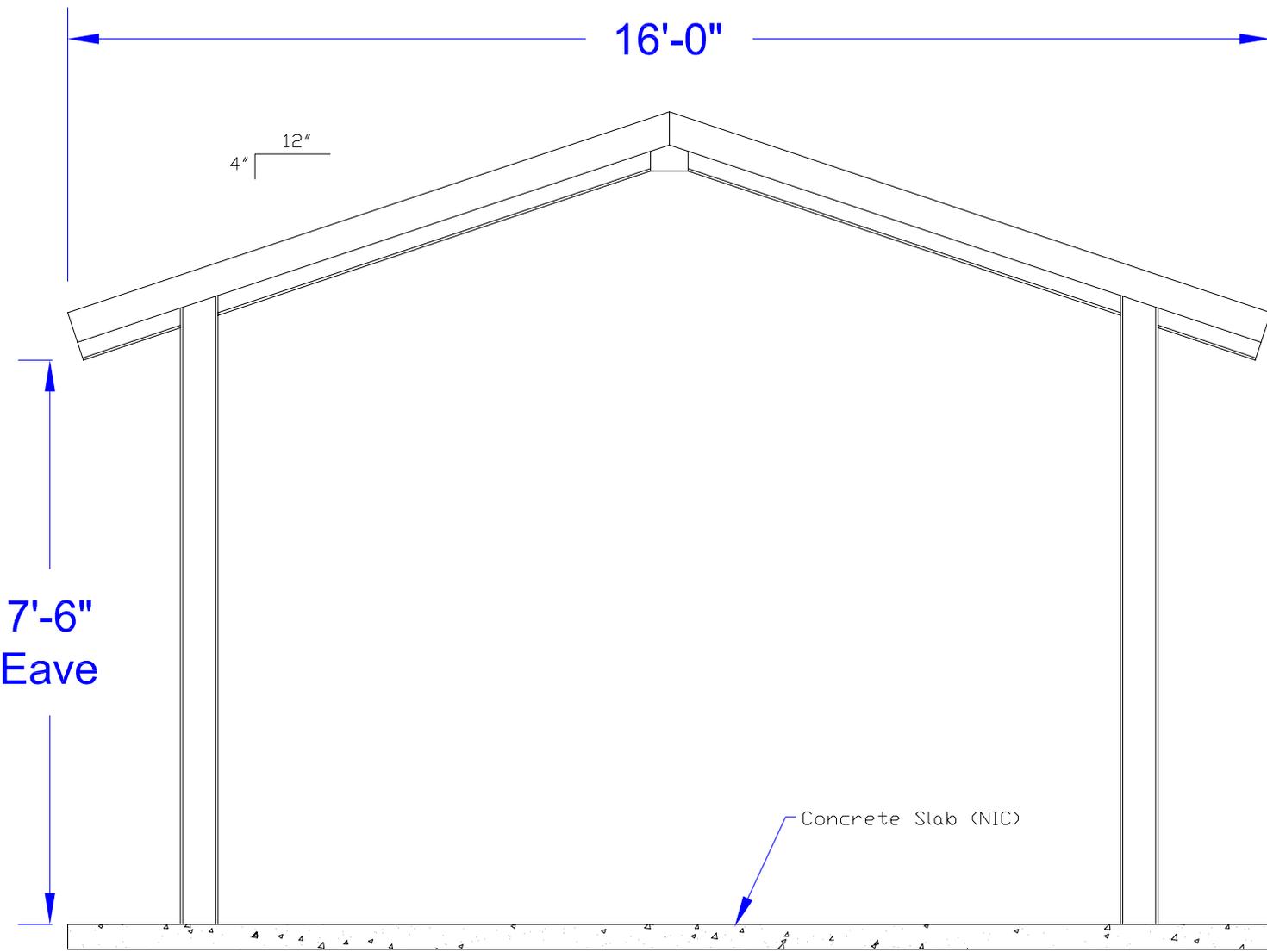
**ARC3025**

REV

**001**

All quotation drawings are preliminary only,  
not to be used for installation of any kind.

PRELIMINARY



Landscape

Elements

TITLE: Elevation

MODEL: 16'x28' (SF) Custom Gable End Structure

DRAWN BY: M.R.I.

DATE: 12/09/2011

206 Adamson Ind Blvd  
Carrollton, GA 30117



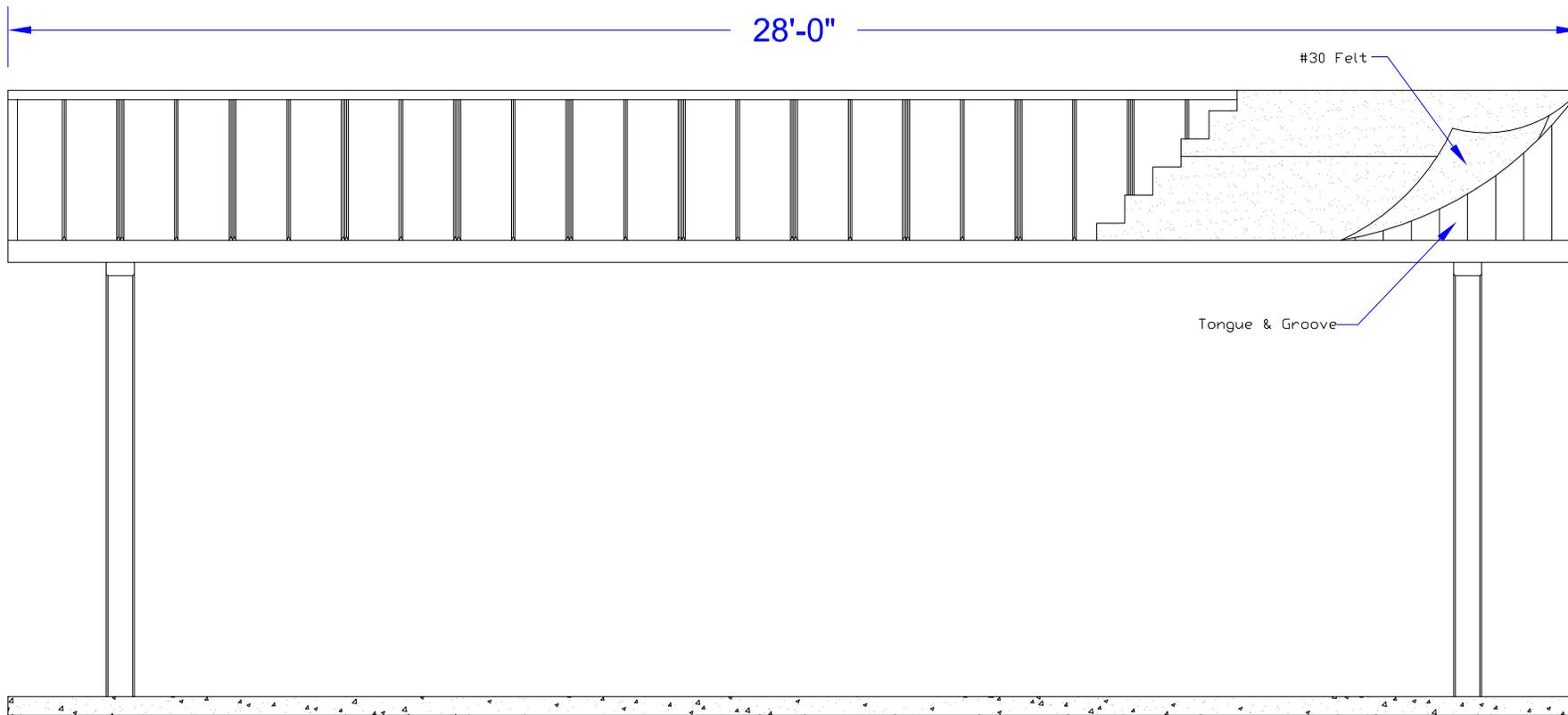
Ph: 678 839 5700  
Fx: 678 839 5732

SHEET: 1

QUOTE #: L6103DM

All quotation drawings are preliminary only,  
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PRELIMINARY



Landscape

Elements

TITLE: Elevation

DRAWN BY: M.R.I.

DATE: 12/09/2011 206 Adamson Ind Blvd  
Carrollton, GA 30117



MODEL: 16'x28' (SF) Custom Gable End Structure

Ph: 678 839 5700  
Fx: 678 839 5732

SHEET: 2

QUOTE #: L6103DM

*Litchfield*

All quotation drawings are preliminary only,  
not to be used for installation of any kind.

**PRELIMINARY**

24'-0"

12'-6"

*Landscape*

*Elements*

TITLE: Ground Plan

DRAWN BY: M.R.I.

DATE: 12/09/2011

206 Adamson Ind Blvd  
Carrollton, GA 30117



MODEL: 16'x28' (SF) Custom Gable End Structure

Ph: 678 839 5700  
Fx: 678 839 5732

SHEET: 3

QUOTE #: L6103DM

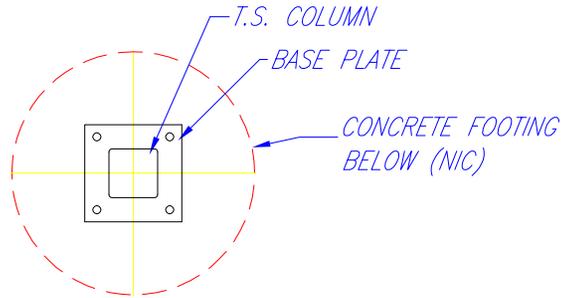


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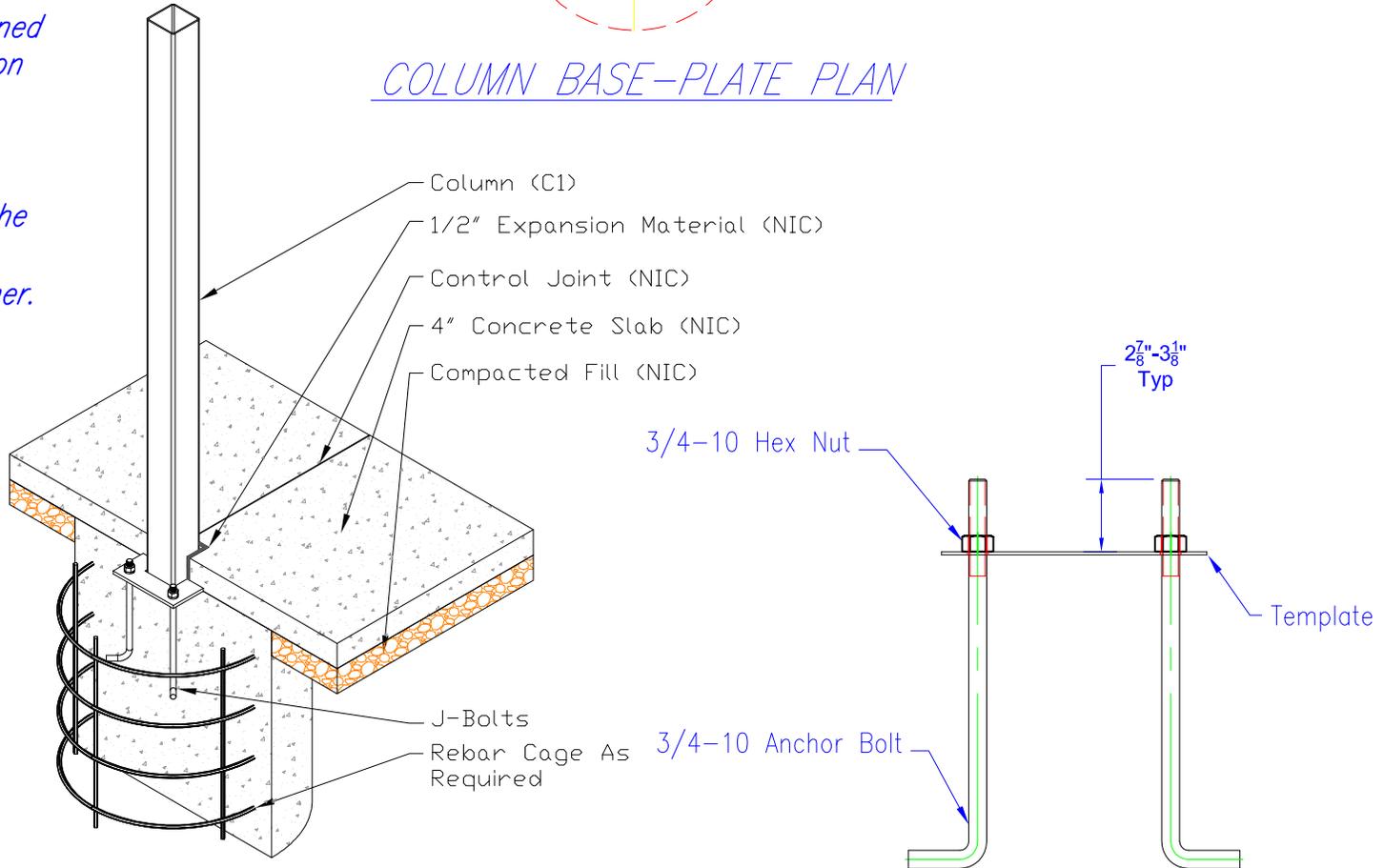
PRELIMINARY

\*DESIGN NOTE:

All foundation design information should be considered as preliminary only. A local soils engineer shall be retained to design the foundation according to local conditions and codes. Final design of the footing/foundation is the responsibility of the general contractor/owner.



COLUMN BASE-PLATE PLAN



ANCHOR BOLT TEMPLATE ASSEMBLY

TITLE: Column Detail

DRAWN BY: M.R.I.

DATE: 12/09/2011

206 Adamson Ind Blvd  
Carrollton, GA 30117



MODEL: 16'x28' (SF) Custom Gable End Structure

Ph: 678 839 5700  
Fx: 678 839 5732

SHEET: 4

QUOTE #: L6103DM

Landscape

Elements

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Material Specifications and Notes:

1. All structural steel tubing shall be ASTM A-500 Grade B.
2. All other steel (plates, gussets, etc.) shall be ASTM A-36.
3. All welding is to be done in accordance with latest AWS standards. All welds are to develop full strength of component parts. (E7081 Electrodes)
4. All bolts to be ASTM A-325 & threaded rod to be ASTM B-7.
5. All fabricated steel & structural tubes to be sand blasted to a white condition  
Electrostatic Special Epoxy TGIC Primer Applied – 3 mils.  
Electrostatic Epoxy TGIC "Top Coat" Powder Coat Applied – 3 mils.  
Final cure of coating at 450 degrees for 30 to 45 minutes.
6. Roofing Materials– 2"x6" (Nom) SYP Tongue & Groove w/ 26 Ga. 5-VCrmp Pre-Cut Metal Roofing.

ERECTION NOTES:

All members must be properly braced until the complete structural system has been constructed.

This building has been designed as a free standing, open structure. If walls are to be added, or if the building is to adjoin another structure, or if other modifications are to be made, the structure must be reengineered prior to these modifications.

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION AND IS NOT TO BE REPRODUCED WITHOUT THE WRITTEN PERMISSION FROM LITCHFIELD INDUSTRIES, INC. AND/OR IS NOT TO BE USED IN ANY MANNER DETRIMENTAL TO THE INTEREST OF LITCHFIELD INDUSTRIES, INC.

N.I.C. = NOT IN CONTRACT

TITLE: General Notes

DRAWN BY: M.R.I.

DATE: 12/09/2011

206 Adamson Ind Blvd  
Carrollton, GA 30117



MODEL: 16'x28' (SF) Custom Gable End Structure

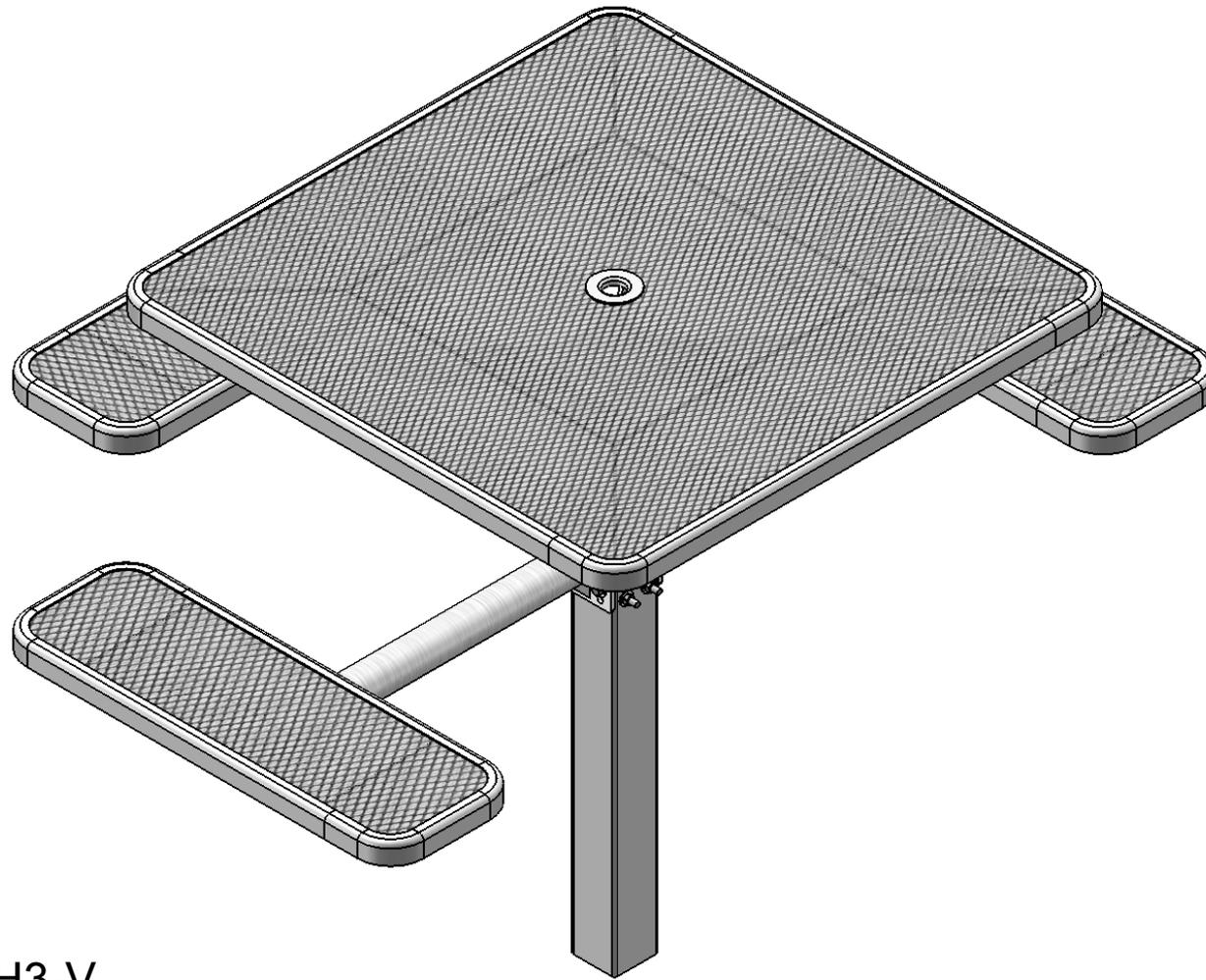
Ph: 678 839 5700  
Fx: 678 839 5732

SHEET: 5

QUOTE #: L6103DM

# ultra site™

A PLAYCORE® Company



Model # 338SH3-V



A PLAYCORE Company

1675 Locust Street  
Red Bud, IL 62278  
Phone: 618-282-8200  
Fax: 618-282-8202

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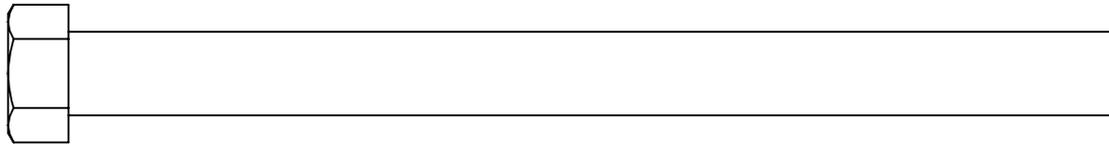


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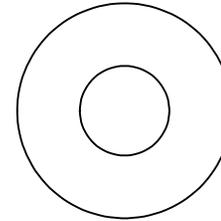
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- Ground surfaces around equipment should be restored as needed. Concrete footings should never be exposed. Surface depth should comply with ASTM and CPSC specifications.
- Check for and repair damage caused by wear or vandalism, a major factor in injury causing situations.
- All protruding bolts should be covered or cut off and finished smooth. Sharp edges on pipes should be capped or removed. Check for bent, broken, or severely worn pipe, and replace.
- All equipment should be free of rust and repainted whenever necessary to deter rusting.
- We provide our customers with layout sheets and installation instructions. Please keep on file the specifications sheet that contains the listing of every part used.
- Never add components not intended for use with this product.
- Regular maintenance is necessary in this and all park and recreational equipment to insure the safety of the user.
- Note: Proper maintenance of equipment requires regular tightening of all bolts, nuts, and setscrews.
- Note: Regular checking of all parts, castings, etc. should be made. If a part is broken or worn, it should be replaced immediately.
- Check to be sure all fittings are tight and that bars and pipes do not move.
- Replace all worn S-hooks. S-hooks must be completely closed. Failure to close S-hooks can result in serious injury to the user. NEVER reuse S-hooks.
- Test for free movement of swing hanger and other moving attached parts.
- Check for worn chains and replace them.
- A soft resilient surface should be placed under all swings extending at least twice the height of the top rail both front and back.

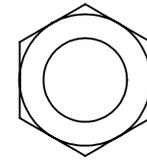
# HARDWARE



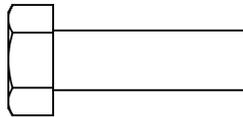
7/16" x 5-1/2"  
Machine Bolt



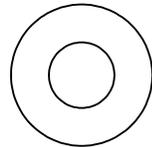
7/16" Washer



7/16" Hex Nut



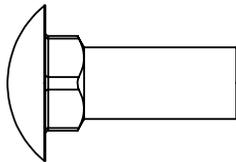
5/16" x 1"  
Machine Bolt



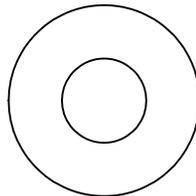
5/16" Washer



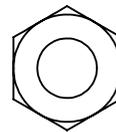
5/16" Kep Nut



3/8" x 1"  
Carriage Bolt

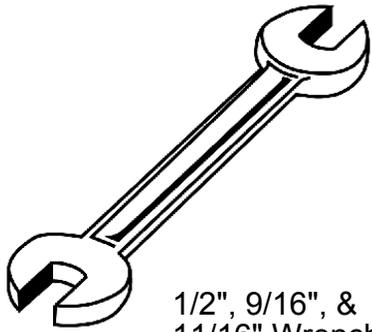


3/8" Washer

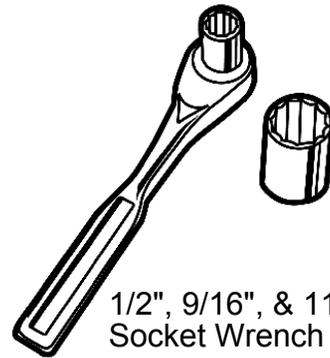


3/8" Hex Nut

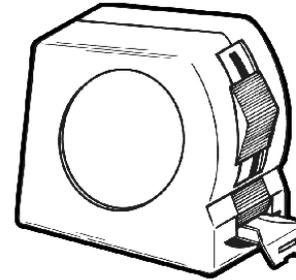
## TOOLS REQUIRED



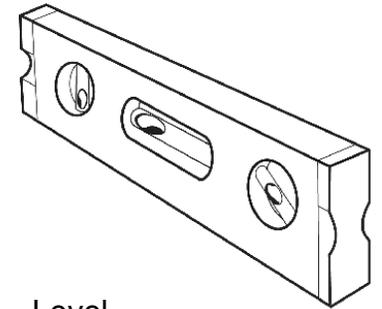
1/2", 9/16", &  
11/16" Wrench



1/2", 9/16", & 11/16"  
Socket Wrench



Tape Measure



Level

# ULTRA SITE PRODUCT SPECIFICATIONS

## **338SH3-V 46" SQUARE INGROUND MOUNT TABLE WITH 3 SEATS**

Top & Seats: 11 gauge die formed angle frame 1"x1-7/8" with 3" radius corners. 3/4" #9 steel expanded metal. 7 gauge x 1-1/2" flat bar center support and mounting bracket understructure. Top is additionally diagonally supported to the corners with 7 gauge x 1-1/2" flat bar. Electrically MIG welded.

Coating: Oven fused functionalized polyethylene copolymer-based thermoplastic. Fluidized bed coating application with superior mechanical performance, impact resistance and UV-stability.

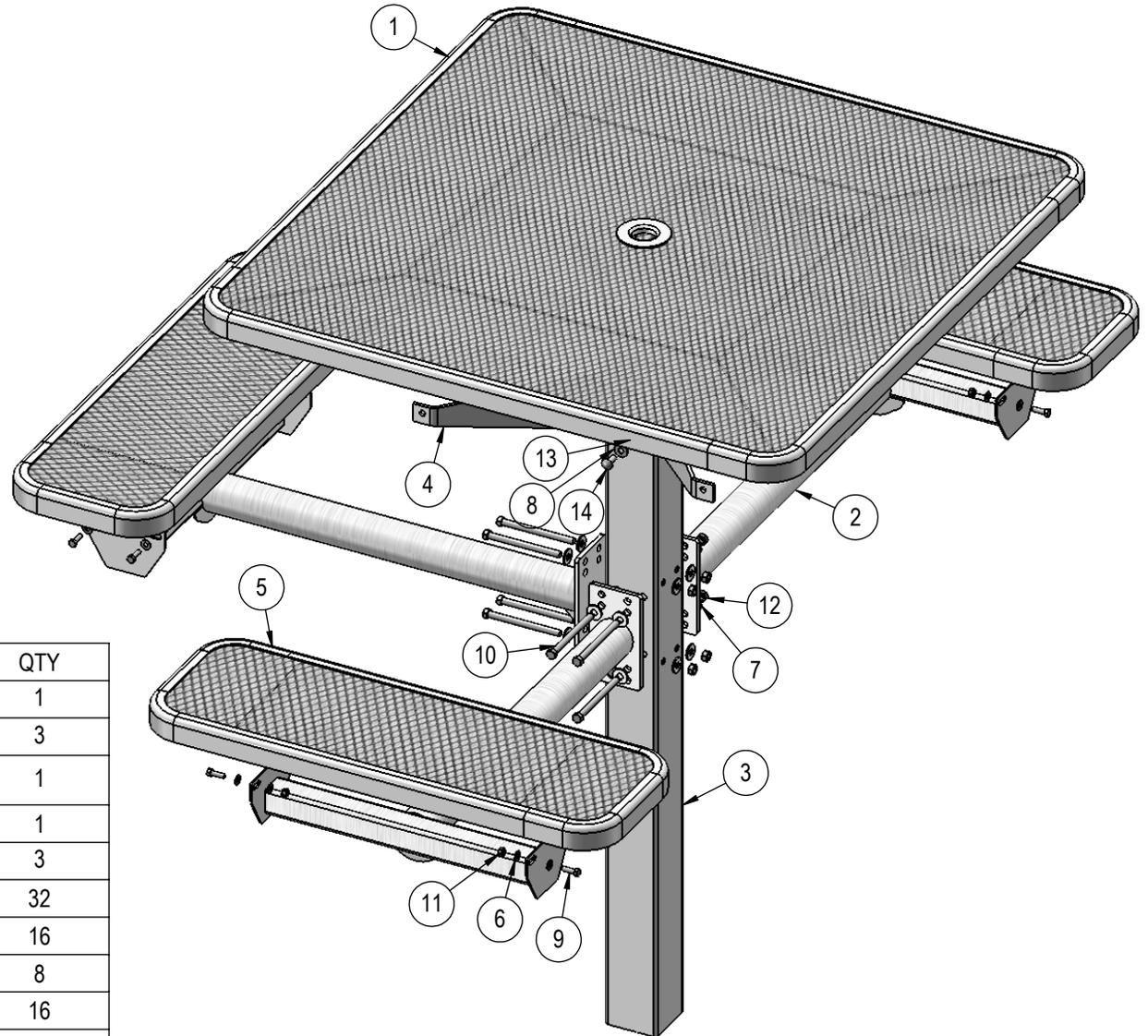
Frame: Main support column is 4"x4"x11 gauge pre-galvanized structural steel tubing. Arms are fabricated from 2-7/8" O.D. x 9 gauge pre-galvanized structural steel welded to 1/4" precision punched plates for attachment to the main column and 2"x2"x3/16" structural steel angle for lateral seat support. Seat attachment points are 10 gauge precision punched tabs. Table top attachment structure is fabricated from 2"x2"x3/16" structural steel angle and top attachment points are 7 gauge x 1-1/2" steel flat bar.

Frame Coating: Electrostatic powder coated application oven cured.

Hardware: All stainless steel hardware fasteners.

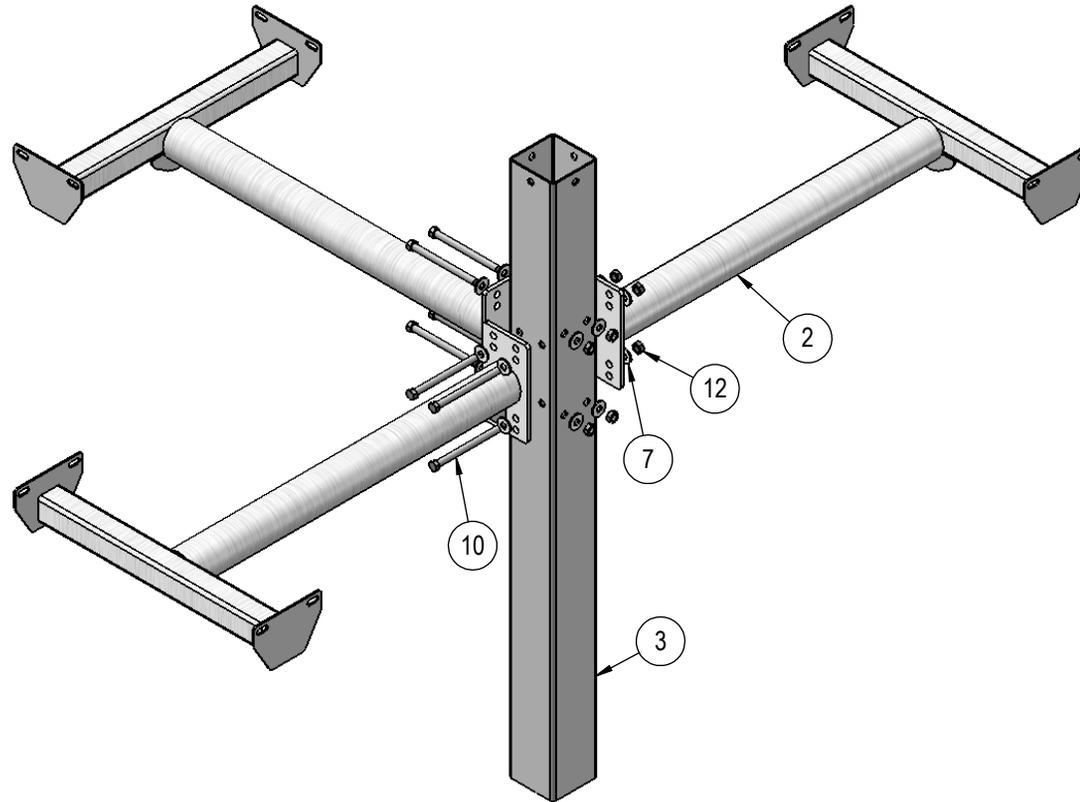
Dimensions: Top is 46" square x 30-1/4" high. Seats are 12" wide x 36" long x 18" high. Outside to outside dimensions of 3 seat table is 76-1/2" X 61-1/4".

# COMPONENTS



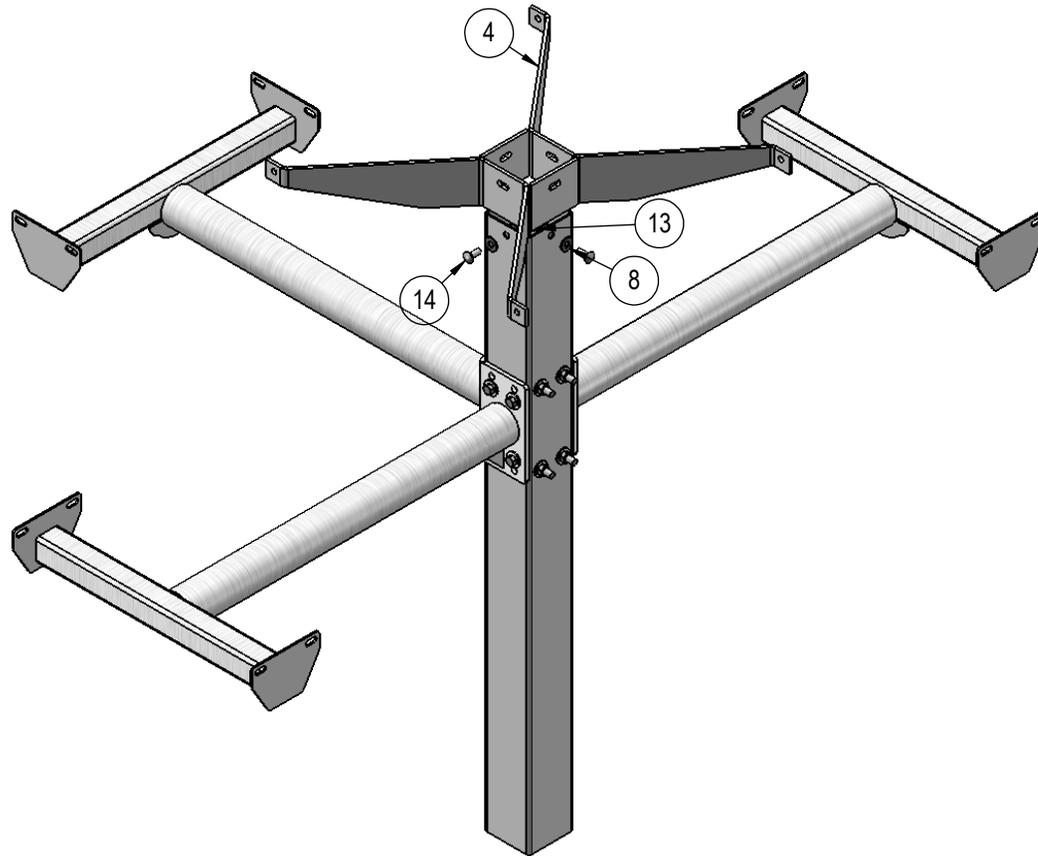
ITEM NO.	PartNo	DESCRIPTION	QTY
1	T-V46-T	46" Expanded Square Top	1
2	P-V338-ARM	338 vinyl arm	3
3	P-338S or G-338S	338 IG post asem	1
4	P-01-04-0150	H Bracket	1
5	T-V36-S	3' Expanded Seat	3
6	33-02-0007	5/16" Flat Washer (SS)	32
7	33-02-0004	7/16" SS Washer	16
8	33-02-0008	3/8" Flat Washer (SS)	8
9	33-05-0029	5/16" x 1" Machine Bolt (SS)	16
10	33-06-0049	7/16" x 5-1/2" Machine Bolt	8
11	33-03-0012	5/16" Kep Nut (SS)	16
12	33-01-0006	7/16" Hex Nut (SS)	8
13	33-01-0018	3/8" Hex Nut (SS)	4
14	33-06-0042	3/8" x 1" Carriage Bolt (SS)	4

# STEP 1



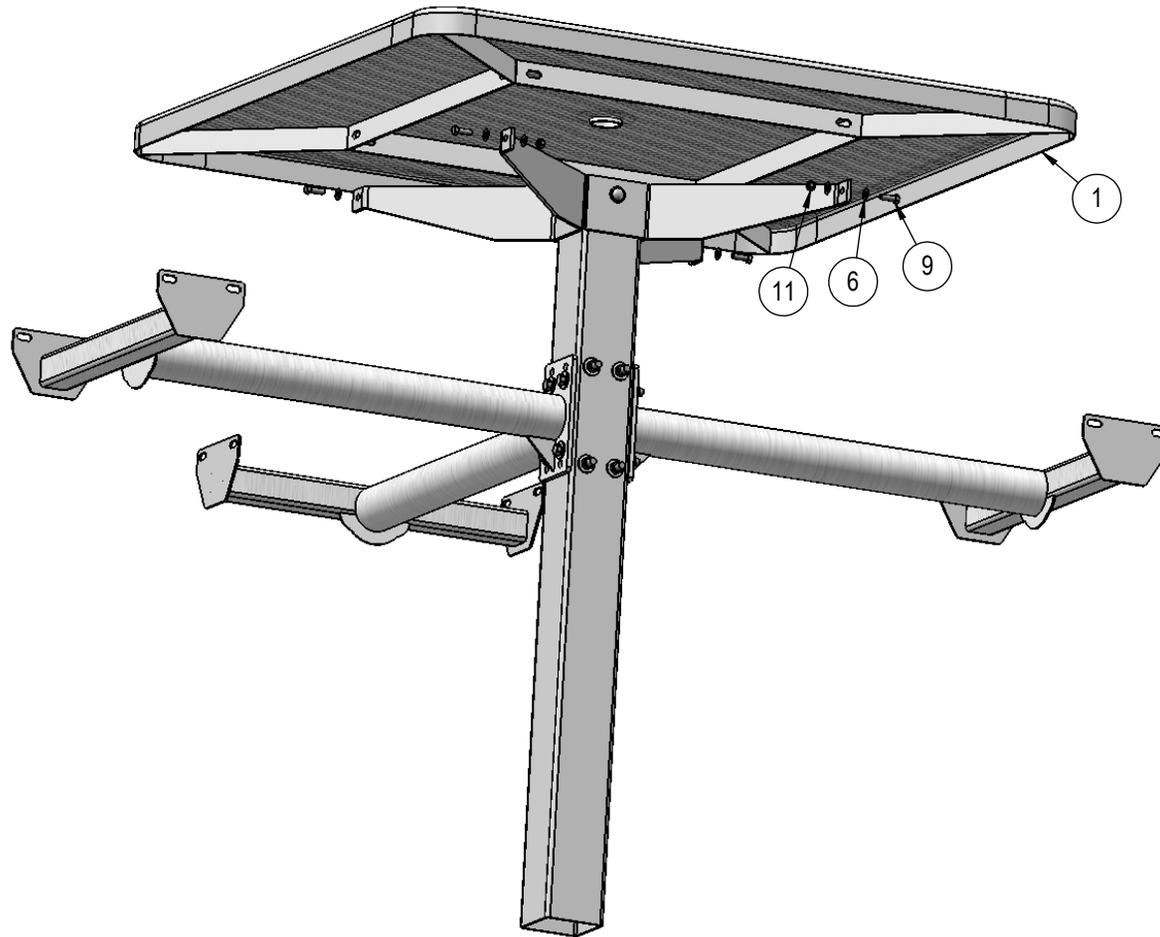
Attach the 338 Vinyl Arms to the 338 Post using specified hardware.

## STEP 2



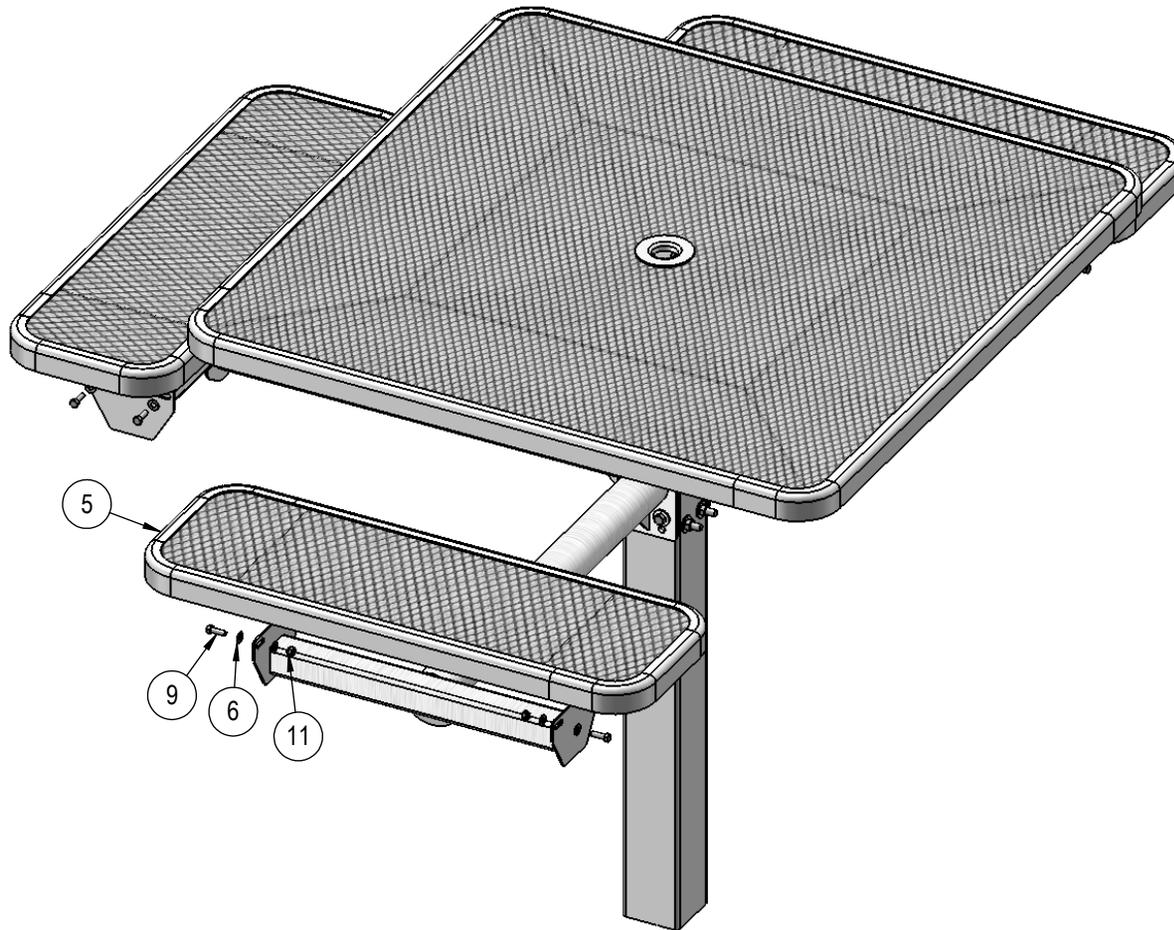
Attach the H Bracket to the 338 Post using specified hardware.

## STEP 3



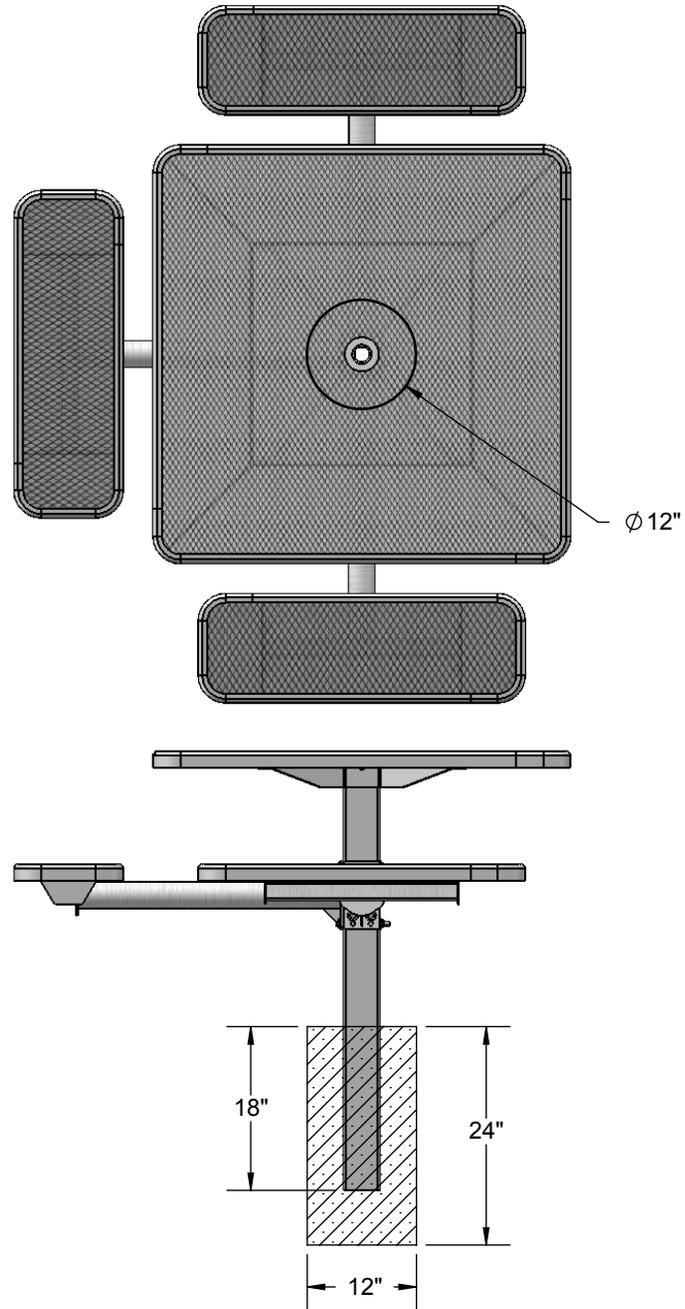
Attach the 46" Square Top to the H Bracket using specified hardware.

## STEP 4



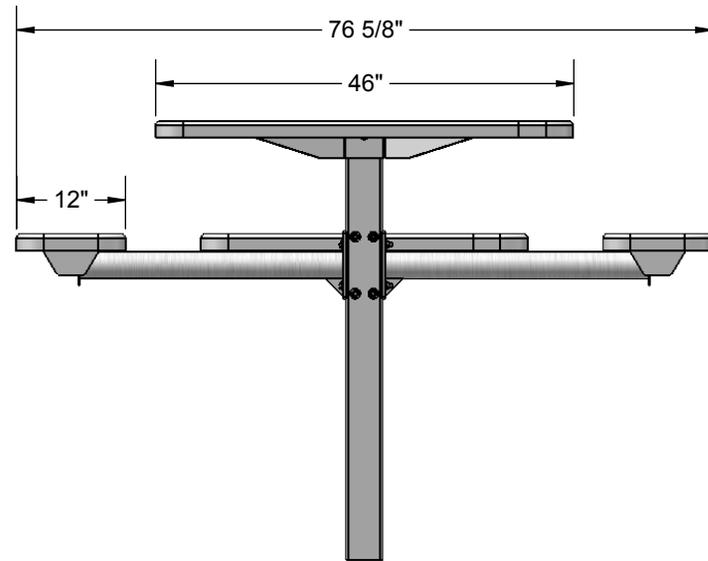
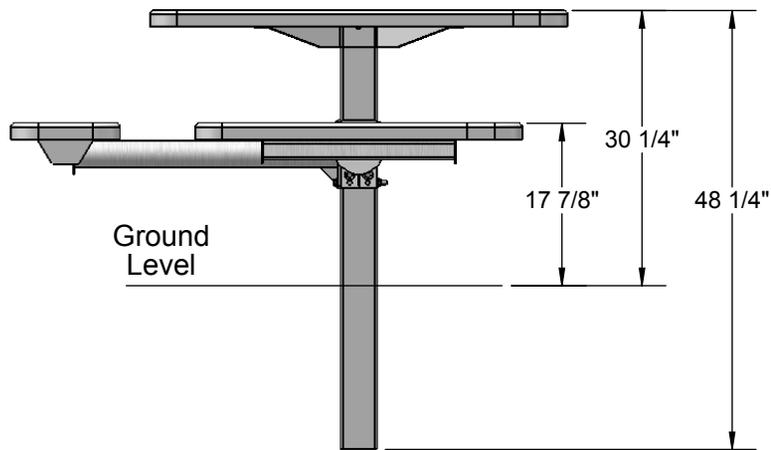
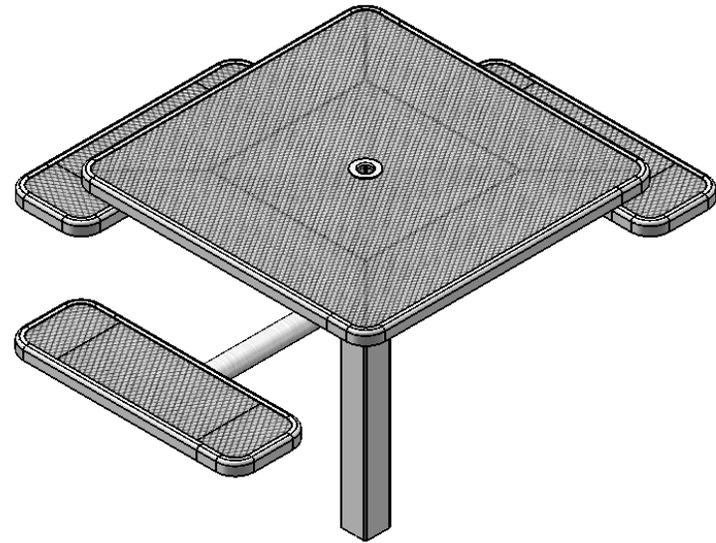
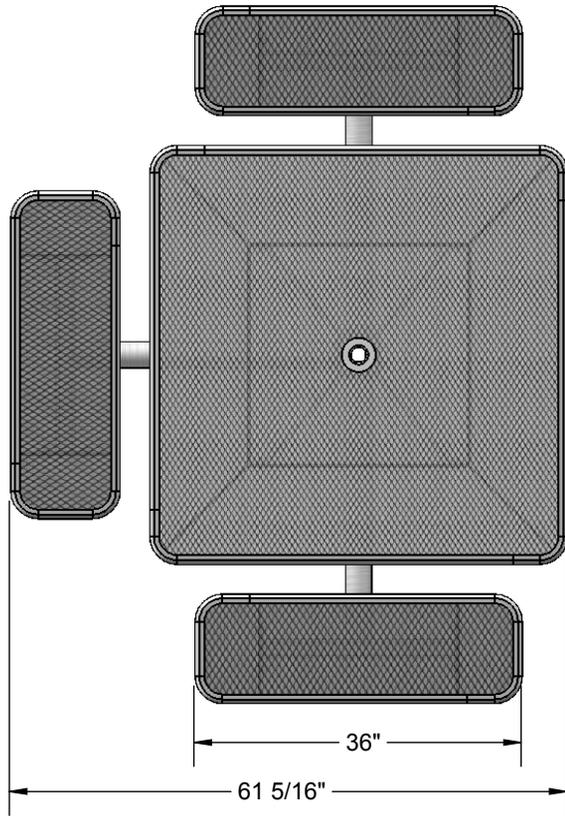
Attach the 3' Seats to the 338 Vinyl Arms using specified hardware.

# FOOTINGS



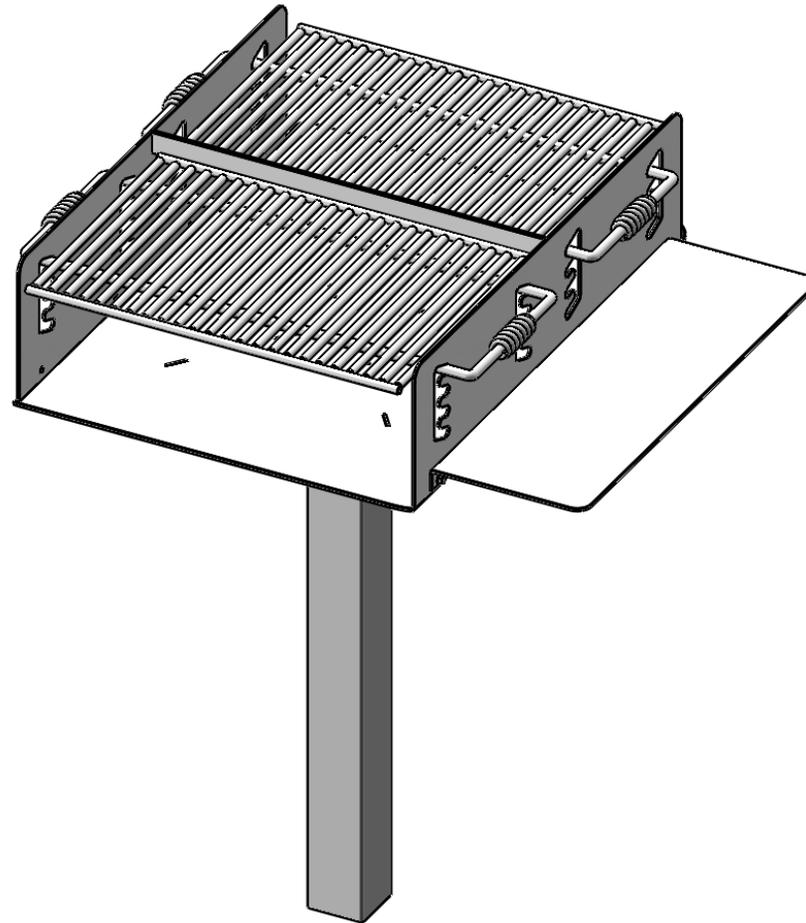
Estimated Required Concrete:  
5 - 50 lb Bags of Concrete Mix

# OVERALL DIMENSIONS



# ultra site™

A PLAYCORE® Company



Model # 621



A PLAYCORE company

1675 Locust Street  
Red Bud, IL 62278  
Phone: 618-282-8200  
Fax: 618-282-8202

## WARRANTY & TERMS

**WARRANTY: 5 Year Limited Warranty on Thermoplastic coated elements.** Ultra Play guarantees all items for one full year to be free of defects in workmanship or materials when installed and maintained properly. We agree to repair or replace, any items determined to be defective. Items specifically not covered by this warranty include vandalism, man made or natural disasters, lack of maintenance, normal weathering or wear and tear due to public abuse.

Damages or loss in transit is the responsibility of the carrier, whether visible or concealed. It is the responsibility of the recipient to assure that the order is received complete. Before signing the delivery receipt, inspect the shipment immediately and completely. Note any damages or shortages on the bill of lading. Damage reports must be filed within 10 days. Ultra Play is NOT responsible for damages or loss in transit. Title to all goods passes to the customer at the time of shipment. Ultra Play will assist in filing claims if the freight arrangements were made by Ultra Play at your request.

**CANCELLATIONS AND RETURNS:** Cancellations are only accepted with approval of Ultra Play. No merchandise shall be returned without a Return Goods Authorization number which is issued by customer service. Any authorized merchandise must be carefully packed and received in saleable condition. A restocking charge of up to 25% will be applied to all returned goods when the error is not the fault of Ultra Play. All returns must be shipped freight prepaid.

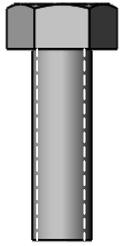


A PLAYCORE Company

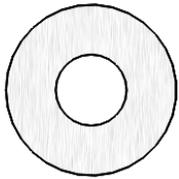
## **SAFETY WARNINGS & EQUIPMENT INSPECTION**

- Owners and installers please note these safety warnings and make use of this checklist on a regular basis.
- Follow installation instructions when erecting equipment.
- Ground surfaces around equipment should be restored as needed. Concrete footings should never be exposed. Surface depth should comply with ASTM and CPSC specifications.
- Check for and repair damage caused by wear or vandalism, a major factor in injury causing situations.
- All protruding bolts should be covered or cut off and finished smooth. Sharp edges on pipes should be capped or removed. Check for bent, broken, or severely worn pipe, and replace.
- All equipment should be free of rust and repainted whenever necessary to deter rusting.
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- Test for free movement of swing hanger and other moving attached parts.
- Check for worn chains and replace them.
- A soft resilient surface should be placed under all swings extending at least twice the height of the top rail both front and back.

# HARDWARE



5/16" x 1"  
Machine Bolt

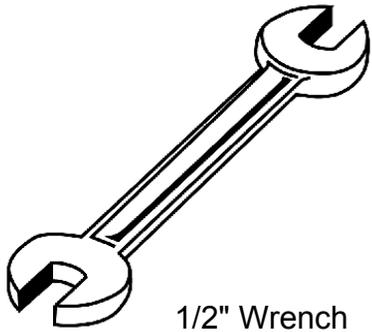


5/16" Washer

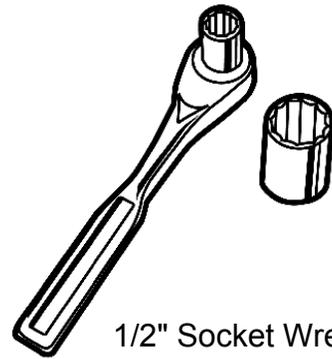


5/16" Hex Nut

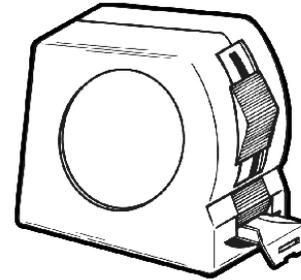
## TOOLS REQUIRED



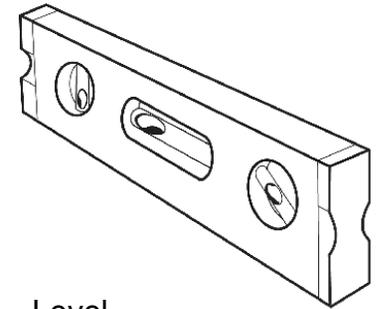
1/2" Wrench



1/2" Socket Wrench



Tape Measure



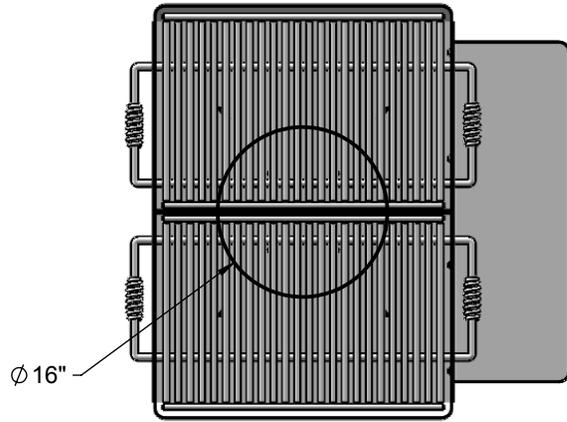
Level

# ULTRA SITE PRODUCT SPECIFICATIONS

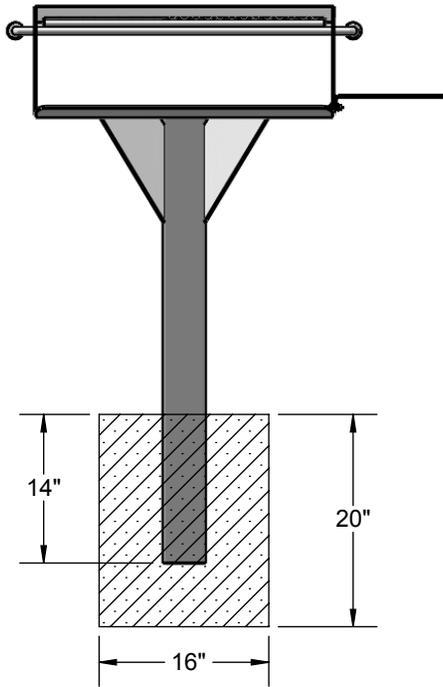
## 621 Bi-Level Group Grill

Overall firebox shall be fabricated from 7-gauge steel. Firebox shall be 28" wide x 36" long x 10" high, and shall be braced on bottom with four 7 gauge triangular steel gussets. Each grill shall have two individually adjustable cooking grates. Each grate shall consist of twenty-seven 1/2" diameter steel bars, measuring 1-1/8" on centers, supported by two 5/8" diameter steel bars. Total cooking area per grate shall be 504 sq. Inches for a total of 1,008 sq. Inches per unit. Each grate shall have cool-coil handles. Support shall be 4" x 4" square steel pipe complete with four 6" x 1/4" gussets. Utility shelf shall be fabricated from 7 gauge steel and measure 8" x 30". Finish shall be non-toxic rust resistant high heat black enamel.

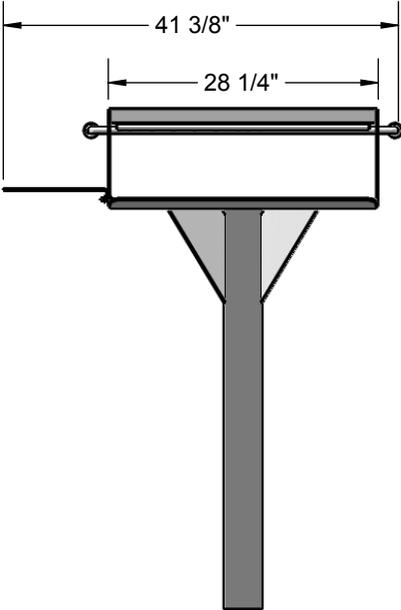
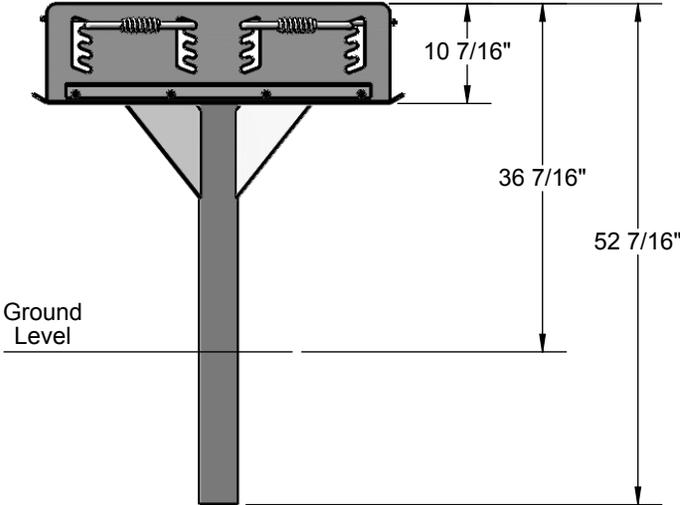
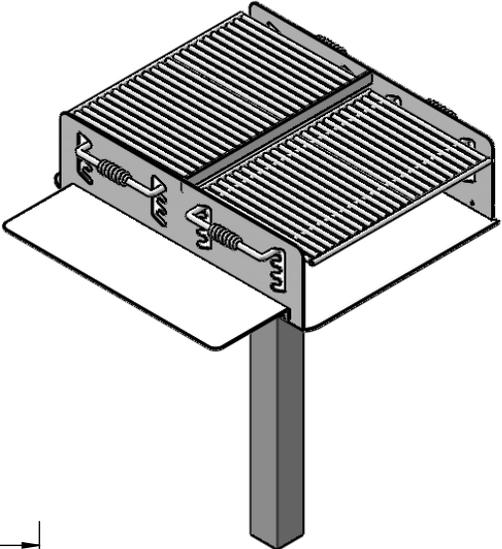
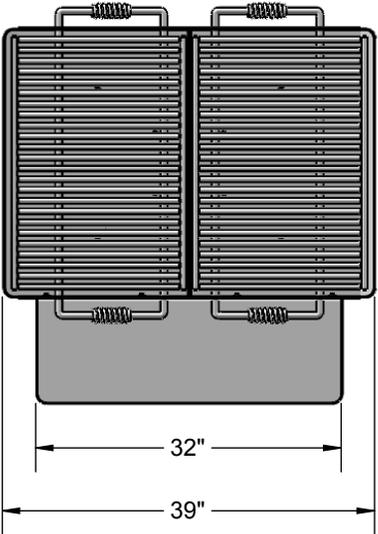
# FOOTINGS



Estimated Required Concrete:  
7 - 50lb Bags of Concrete Mix



# OVERALL DIMENSIONS



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**DIVISION 7**

**FLEXI-PAVEMENT SURFACE**

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# FLEXI-PAVE

## GENERAL SPECIFICATIONS

**P1000** (1" – 25 mm)

**P2000** (2" – 50 mm)

**P3000** (3" – 75 mm)

**PRODUCT DESCRIPTION:** A flexible, porous surfacing / paving material made from recycled rubber tires. It is designed to be used as an alternative to concrete, asphalt, or loose surfacing materials in non-vehicular applications. It is highly porous.

### FEATURES:

- Impact-absorbing surface
- Slip resistant
- Porous
- Intricate designs possible

### BENEFITS:

- Reduce Injuries
- Reduce slip and fall accidents
- Reduces puddles in low-lying areas
- Increases your design options. Wide variety of standard colors Match the color to your decor Custom colors are available. Many design possibilities

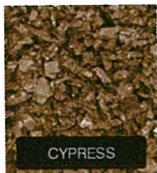
### STANDARD COLORS:



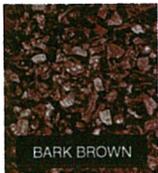
BLACK



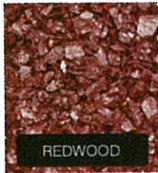
GREEN



CYPRESS



BARK BROWN



REDWOOD



"ADA" BLUE

\* Colors can be combined to achieve a desired aesthetic effect.

**RECOMMENDED USES:** Sidewalks, jogging paths, decks & balconies, boardwalks, handicap ramps, as a refurbishment over existing concrete or asphalt, marine use such as docks, or safety surfacing under playground equipment.

**INSTALLATION:** This is a seamless poured-in-place product that is installed by certified technicians at the job site.

**RECOMMENDED SUBSTRATE:** P3000 and P2000 can be installed over a crushed stone base (thickness varies depending on application) or on an existing engineered surface. P1000 can only be installed over an existing engineered surface (such as asphalt, concrete, or wood or metal decking)

**SURFACE PREPARATION:** Substrate must be clean, dry and primed (if applicable) before application

**REQUIRED INSTALLATION TEMPERATURE:** Between 20° F and 90° F

**CURING TIME:** 24 hours

**SPECIFICATIONS:** P3000 is a 3" thick layer of 3/8" wire-free recycled rubber tire granules bonded together with a single component moisture-cured urethane. P2000 is a 2" thick version of the same components. P1000 is a 1" thick version of the same components. The thickness used is dependent upon the application.

**ASTM SAFETY STANDARDS:** Meets ASTM 1292 safety requirements for 6 ft critical fall height at 2" thick.

**MATERIAL SAFETY INFORMATION:** MSDS are available upon request.

**PRICING & ORDERING:** Pricing for Flexi-Pave™ is based on the square footage being covered, any substrate required, the particulars of the site, and the particulars of the job including forming, special equipment, and disposal. Each installation will be quoted separately.

KBI Flexi-Pave products are manufactured by KB Industries, Inc. Data is based on facts that we believe to be accurate but all recommendations are made without warranty since conditions of use are beyond KB Industries Inc control. We do not assume any liability except what is expressly noted in warranty certificate if certified technicians install the product. We do not assume any liability from injury resulting from use. Liability, if any, is limited to replacement of products.



smarter materials for  
next generation infrastructure™

K.B. Industries, Inc. • 7300 Bryan Dairy Rd., Suite 400 • Largo, FL 33777  
p: 727.723.3300 • f: 727.723.3600 • w: www.kbius.com Revision Date: August 28, 2009



# FLEXI-PAVE

## GENERAL SPECIFICATIONS

**HD 2000** (2" - 50 mm)

**HD1500** (1 1/2" - 37.5 mm)

**HD1000** (1" - 25 mm)

**PRODUCT DESCRIPTION:** A constructional paving material that is dynamic in its physical construction which is mixed directly on the installation site. Available for use after 24 hours which results in a extremely porous, heavy duty, flexible paving system designed for low speed applications with pedestrian and vehicular use.

The constructional paving material is made from Recycled Passenger Tires and Aggregate bound together with K.B. Industries, proprietary binding agent: **XFP75**

### FEATURES:

- Flexible
- Extremely Porous
- Dynamic in physical form
- Diffuses water force
- Impact - Absorbing Surface
- Slip resistant
- Resistant to Freeze / Thaw
- Dissipates Mechanical "Shock"
- Non-Flammable
- Non-Toxic
- Resistant to Harmful Contaminants

### BENEFITS:

- Does not crack. Even with root intrusion/preventing trip hazards.
- Storm Water Management (BMP's) - Allowing Groundwater recharge.
- Heavy objects will not make indentations when removed.
- Erosion control uses (i.e. Embankments, Swales, etc.)
- Reduces injuries to joggers and walkers.
- Exceeds ADA requirements / Reduces slip and fall hazards.
- Reduces maintenance costs.
- Resistant to snow plow damage.
- Does not burn without the use of an extreme accelerent.
- Can be installed bodies of open water (i.e. "Wetlands, etc.")
- Transmission Fluid, , Brake Fluid, Gasoline - Diesel, Hydraulic Fluid, Salt Water, Oil, Chlorine, Ozone, Bromine, Muriatic Acid, Other hostile materials...

**INSTALLATION:** KBI Flexi®-Pave can be installed from 45°F degree to 95°F degree temperatures.

**Important:** When curing... the temperature should not fall below 35°F.

**QUALIFIED INSTALLATION:** KBI Flexi®-Pave can only be installed by K.B. Industries, Inc., "**CERTIFIED INSTALLERS**" having the: "**KBI CERTIFICATION NUMBER**" (*This number can be requested at any time from K.B. Industries Inc., for verification.*)

**RECOMMENDED SUBSTRATE:** HD2000 is installed over a minimum of 4" (100mm) of compacted crushed concrete or similar aggregate to a density of 95% minimum. The sizing of the stone and base soil will directly represent the desired "Curve Number" (percolation rate) required. HD1500 & HD1000 are designed to be installed over existing engineered pavements (i.e. concrete or asphalt). This process is called an "over-pour" installation. (*The porosity rate of HD2000, HD1500 & HD1000 material thickness only is 4000 inches per hour or 100 meters per hour.*)

**MATERIAL SAFETY INFORMATION:** MSDS information is available upon request.

KBI Flexi®-Process products are manufactured by KB Industries, Inc. Data is based on facts that we believe to be accurate but all recommendations are made without warranty since conditions of use are beyond KB Industries Inc control. We do not assume any liability except what is expressly noted in warranty certificate if Certified Technicians install the products. We do not assume any liability from injury resulting from use. Liability, if any, is limited to replacement of products.

**USAGE GUIDELINES:** All KBI Flexi®-Pave, including HDX and HD products, are designed for vehicular traffic. Any implied warranty is voided by improper use. No Track Vehicles (metal or rubber), Forklifts (warehouse-var Reach), Man Lifts (booms or scissors), and/or dumpsters or roll-off containers



smarter materials for next generation infrastructure™

K.B. Industries, Inc. • 7300 Bryan Dairy Rd., Suite 400 • Largo, FL 33777  
p: 727.723.3300 • f: 727.723.3600 • w: www.kbius.com Revision Date: August 28, 2009

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# PART 5

## DRAWINGS

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