

## **ATTACHMENT 1: MANUFACTURER INSTALLATION SPECIFICATIONS**

These installation specifications are intended to provide assistance in bidding and to verify correct delivery when materials have been shipped by the manufacturers to the Contractor.

### Little Tykes Commercial Playground Equipment under order R0324180256:

- KidBuilders 5-12 (Play Area 1)
- Park Service (Play Area 1)
- Traditional Play (Play Area 1)
- KidBuilders 2-5 (Play Area 2)
- PlayBuilders (Play Area 2)
- Traditional Play (Play Area 2)
- KidBuilders (Play Area 3)
- Additional Items
- Biba Included

The Contractor shall refer to the site plan in Contract 8228, 2018 Elver Park Inclusive Playground for site layout.



Project Number: R0324180256

PlayArea: Additional Items |

Project Name:

Project Location:

Sales Representative:

Northland Recreation  
N49 W34651 Wisconsin Ave  
Okauchee ,WI 53069  
262-313-8636

## Installation Instructions

Please, read all information in this manual before starting to install your equipment.

Date: 4/19/2018 12:00:00 AM



commercial play systems

# PRODUCT IDENTIFICATION LABEL

200111440  
10000012C  
SHEET 1 OF 1

## LABEL, IDENTIFICATION STAMPED W/RIVETS 200111492

AUTHORIZED BY: 04MAR13  
*Asplund*

Item	Code	Description	Qty.
1	200126872	PLATE ALUM. CR80 x .016 (I.D. LABEL)	1
2	200126822	RIVET POP ALUM 1/8" X 1/4" PRADA440	4

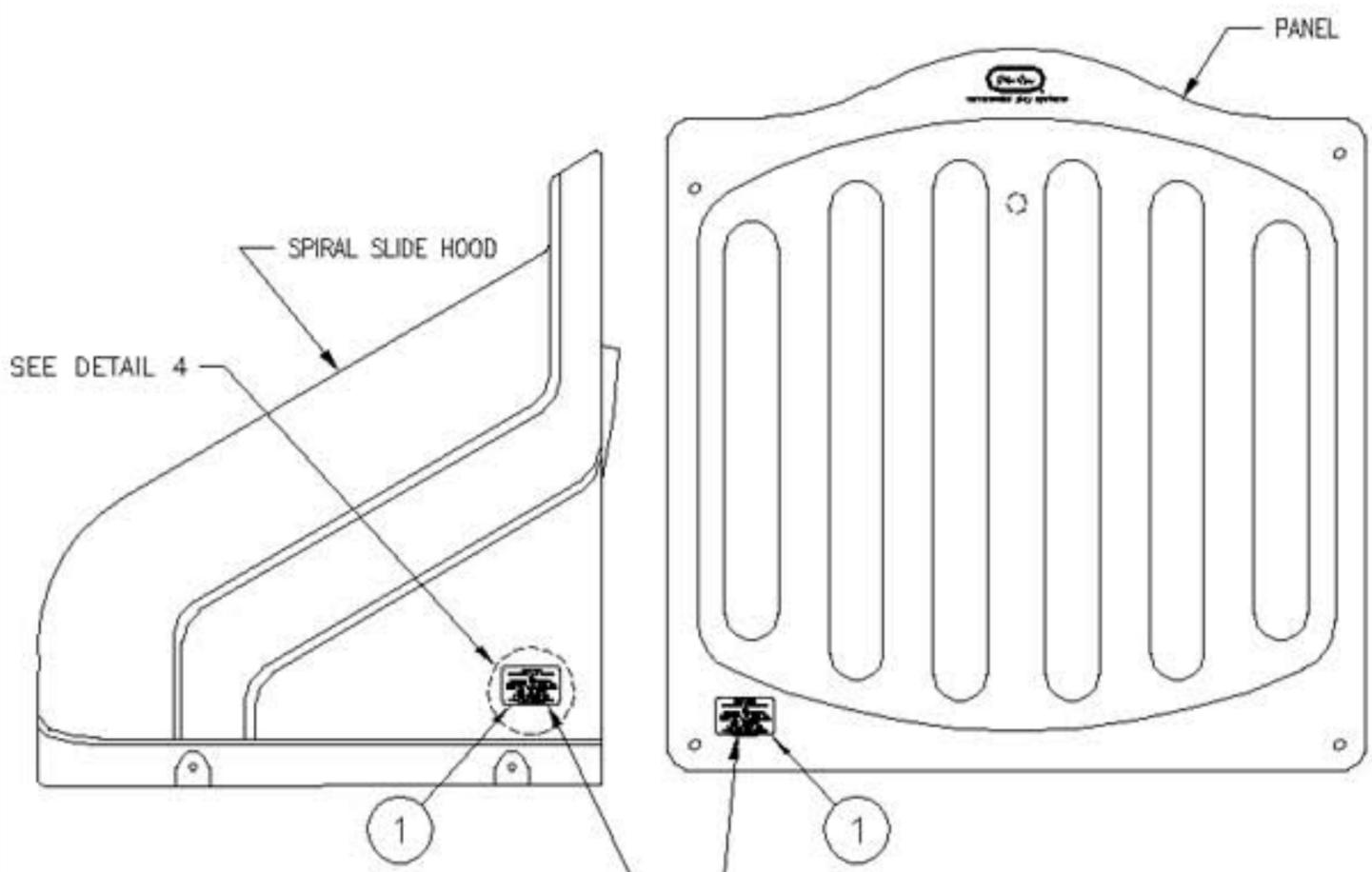
**Application**  
This product identification label is an important part of your structure. It will provide key information for replacement parts and any warranty issues.

**Installation Instructions**

- The product identification label (item 1) needs to be located in a non active area. It is preferred to be placed on the outside of a spiral slide hood as shown in Detail 1. If there is no spiral slide hood, mount the label on the outside of any panel in the location shown in Detail 2. If you have an all steel structure, or a contained play structure, the label should be attached to a post as shown in Detail 3. On all steel structures, mount the label on a post in a location resistant to tampering, while still easy enough to locate and read when necessary. For contained play structures, the label should be attached to a post in the inaccessible area near the maintenance entrance. For small diameter posts, such as in contained play, it may be easier to mount and read the label in a vertical position as shown in Detail 3.

- Using the label as a template, mark and drill 4  $\phi 4\text{mm}$  [ $5/32"$ ] holes.
- Attach the label using 4 pop rivets (item 2) as shown in Detail 4. Note: Insure label is flush with the surface and no gaps exist.

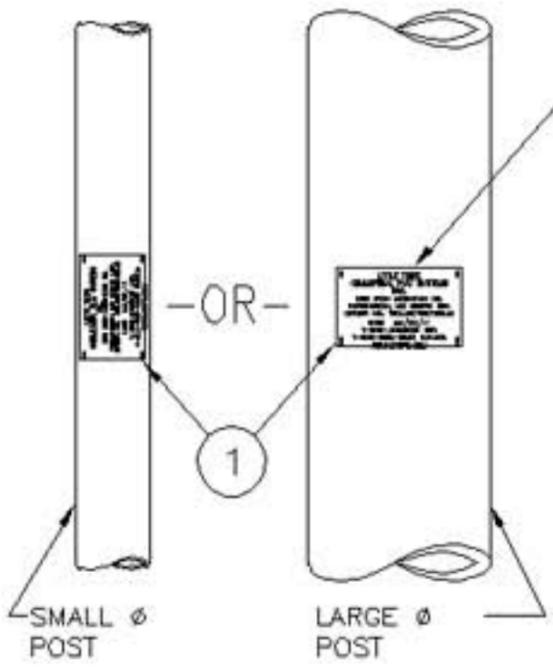
LITTLE TIKES  
COMMERCIAL PLAY SYSTEMS  
INC.  
ONE IRON MOUNTAIN DR.  
FARMINGTON, MO 63640 USA  
ORDER NO. 123456789012345  
DATE MM/DD/YY  
1-800-325-8828 USA  
1-800-265-9953 CANADA  
WWW.LTTCPSS.COM



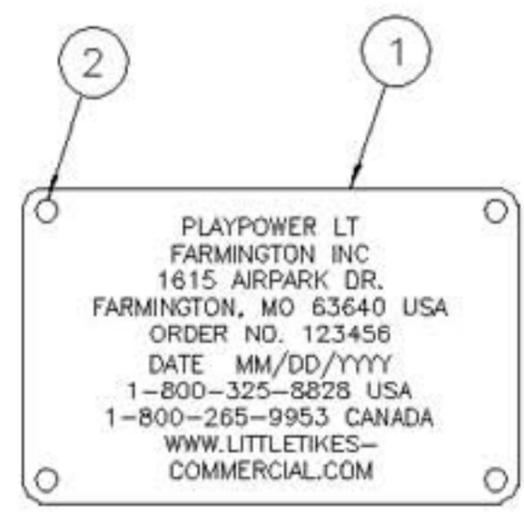
DETAIL  
1

DETAIL  
2

NOTE:  
ATTACH LABEL IN ONE OF THESE LOCATIONS PER STRUCTURE.



DETAIL  
3

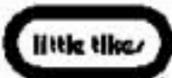


DETAIL  
4

1

2





# AGE APPROPRIATE LABELS

AUTHORIZED BY:  
*Stephen Rose* 17MAY01

## AGE APPROPRIATE LABEL (2 TO 5 YRS) 200104304

Item	Code	Description	Qty.
1A	200104304	LABEL AGE APP. (2 TO 5 YRS.)	1

## AGE APPROPRIATE LABEL (2 TO 12 YRS) 200104305

Item	Code	Description	Qty.
1B	200104305	LABEL AGE APP. (2 TO 12 YRS.)	1

## AGE APPROPRIATE LABEL (5 TO 12 YRS) 200104307

Item	Code	Description	Qty.
1C	200104307	LABEL AGE APP. (5 TO 12 YRS.)	1

### Installation Instructions

1. Identify locations where labels are to be installed. These locations will be specified on the Playground Layout Drawing.
2. Clean the area of the post where the label is to be applied. The label should be placed approximately 1220mm [48"] above the protective surfacing and should face outward so that it is easily visible to users. If an obstruction is located at the 1220mm [48"] height, raise or lower the label so that it will attach directly to the post.
3. Remove backing from label and carefully apply it making sure it is oriented squarely on the post. Rub label to remove all air bubbles.

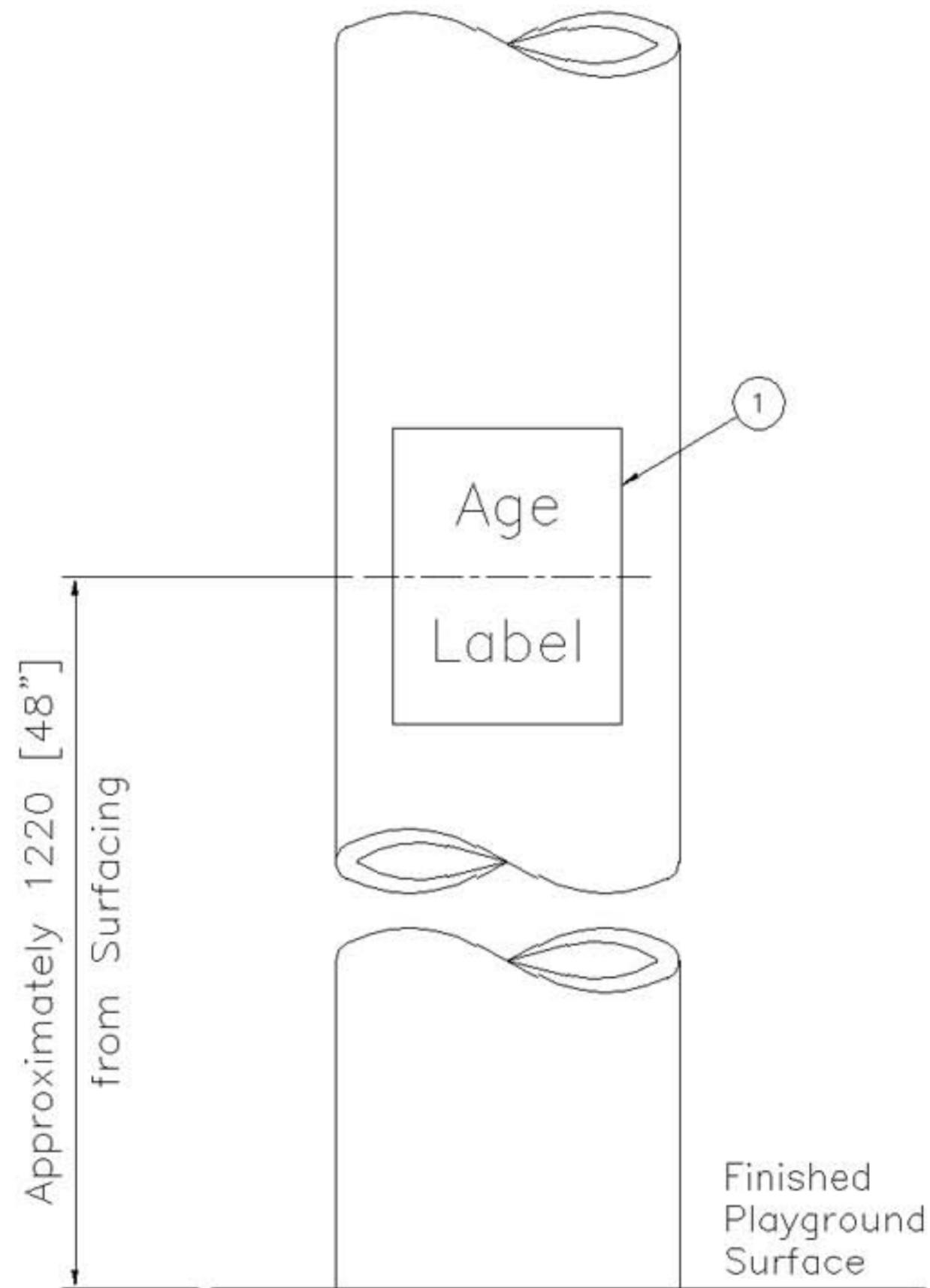
1A



1B



1C





Project Number: R0324180256

PlayArea: Biba\_Included | Park Service

Project Name:

Project Location:

Sales Representative:

Northland Recreation  
N49 W34651 Wisconsin Ave  
Okauchee ,WI 53069  
262-313-8636

## Installation Instructions

Please, read all information in this manual before starting to install your equipment.

Date: 4/19/2018 12:00:00 AM

## Biba Playground Entry Sign

**IMPORTANT!** The Biba Playground Entry Sign is to be installed outside the defined play area and play equipment use zones. It needs to be oriented so that the **front side** faces the main entrance to the playground and next to but not interfering with the accessible route that leads to the play space.

### Models included in this installation guide:

<u>MODEL</u>	<u>DESCRIPTION</u>
9991	Biba Playground Entry Sign - English
9993	Biba Playground Entry Sign - French/English
9994	Biba Playground Entry Sign - Spanish/English
9995	Biba Playground Entry Sign - French



FRONT

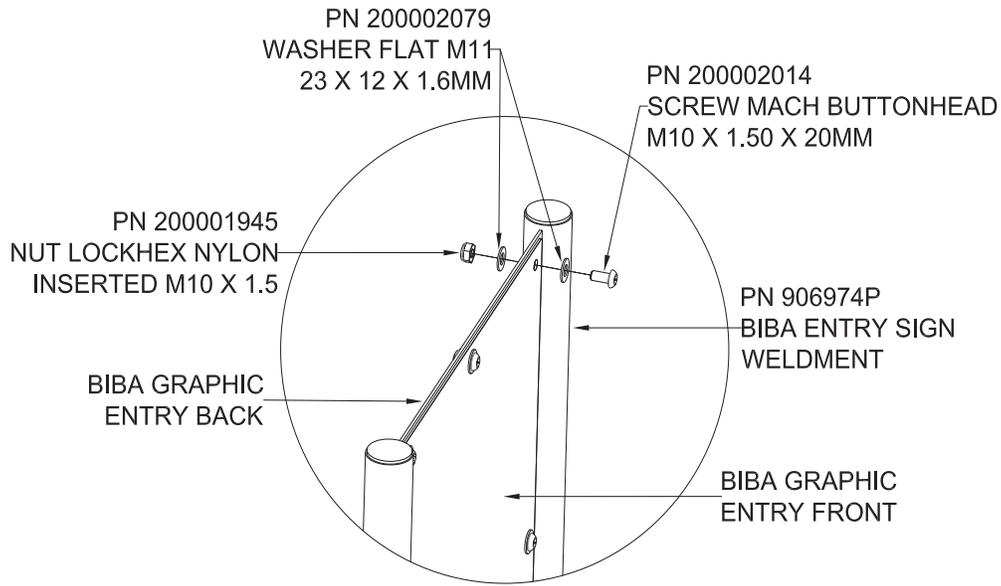


BACK

# Biba Playground Entry Sign

## STEP 1 ATTACH SIGN TO POST FRAME

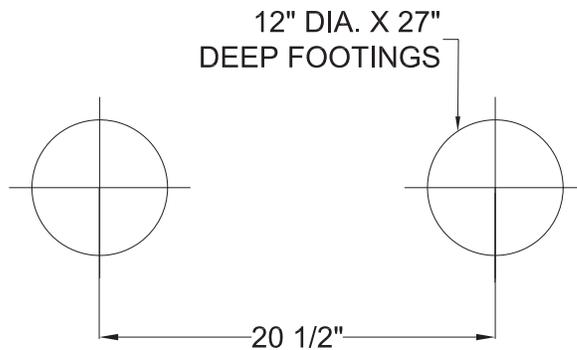
1a. Attach sign as shown below, in five (5) locations.



## STEP 2 DIG FOOTINGS

2a. Dig footings per *Footing Layouts*, Construction Drawings, and *Footing Details* installation.

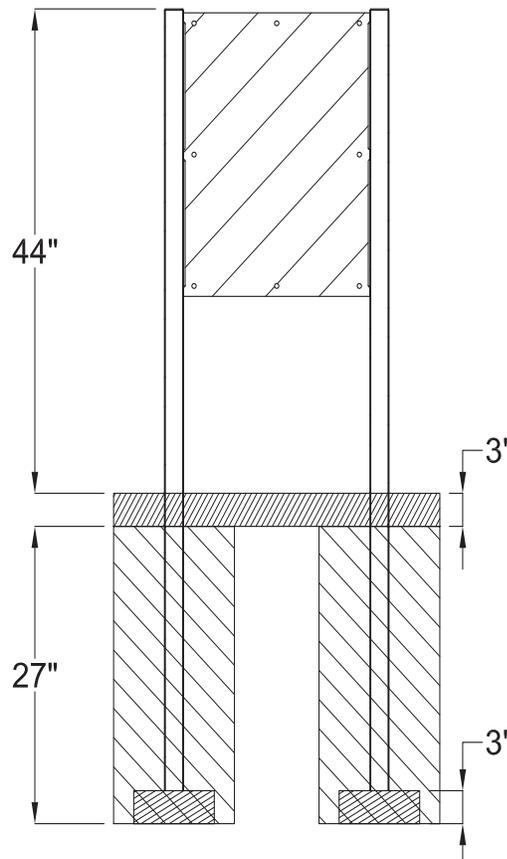
*Note: Do not pour concrete for footings until components illustrated in this installation guide have been installed per instructions and braced in position, leveled and plumbed.*



**Biba!** Biba Playground Entry Sign

**STEP 3** SET SIGN IN FOOTINGS

- 3a. Place a brick in the bottom of each hole so the sign will rest on the brick when inserted.
- 3b. Set sign in footings per Construction Drawings pour concrete; plumb sign in footings and brace in position until concrete is cured.



**FINAL STEP**

Proceed with *Final Assembly installation* located behind *Installations 101* in Installation Manual.

# Biba Playground Entry Sign

## Bill of Material

### Model 9991

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	906974P	BIBA ENTRY SIGN WELDMENT
1	903979	BIBA GRAPHIC ENTRY FRONT FULL ENGLISH
1	903980	BIBA GRAPHIC ENTRY BACK FULL ENGLISH
1	912637	PARTS CARTON 9991 BIBA

### Parts Carton 912637

1	HW9991-1	HRDW PKG F/BIBA ENTRY S1/1
---	----------	----------------------------

### HW9991-1

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
8	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM
16	200002079	WASHER FLAT M11 23 X 12 X 1.6MM
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5

### Model 9993

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	906974P	BIBA ENTRY SIGN WELDMENT
1	906215	BIBA GRAPHIC ENTRY FRONT FRENCH/ENGLISH
1	906214	BIBA GRAPHIC ENTRY BACK FRENCH/ENGLISH
1	912637	PARTS CARTON 9991 BIBA

### Parts Carton 912637

1	HW9991-1	HRDW PKG F/BIBA ENTRY S1/1
---	----------	----------------------------

### HW9991-1

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
8	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM
16	200002079	WASHER FLAT M11 23 X 12 X 1.6MM
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5



## Biba Playground Entry Sign

### Bill of Material cont.

#### Model 9994

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	906974P	BIBA ENTRY SIGN WELDMENT
1	906217	BIBA GRAPHIC ENTRY FRONT SPANISH/ENGLISH
1	906216	BIBA GRAPHIC ENTRY BACK SPANISH/ENGLISH
1	912637	PARTS CARTON 9991 BIBA

#### Parts Carton 912637

1	HW9991-1	HRDW PKG F/BIBA ENTRY S1/1
---	----------	----------------------------

#### HW9991-1

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
8	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM
16	200002079	WASHER FLAT M11 23 X 12 X 1.6MM
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5

#### Model 9995

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	906974P	BIBA ENTRY SIGN WELDMENT
1	903988	BIBA GRAPHIC ENTRY FRONT FULL FRENCH
1	903989	BIBA GRAPHIC ENTRY BACK FULL FRENCH
1	912637	PARTS CARTON 9991 BIBA

#### Parts Carton 912637

1	HW9991-1	HRDW PKG F/BIBA ENTRY S1/1
---	----------	----------------------------

#### HW9991-1

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
8	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM
16	200002079	WASHER FLAT M11 23 X 12 X 1.6MM
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5

## Installation of Biba Play Event Markers

**Step 1:** Locate post markers next to the specific events as indicated below. The markers should be placed at approximately 48" (1220 mm) above surfacing. Actual height may need to be adjusted to not conflict with structure clamps (default to lower rather than higher in this case, no higher than 5', no lower than 2' above surfacing). During play, markers will be scanned by caregivers at ground level. Place markers along accessible surfacing routes within the play space to facilitate wheelchair use. Markers need to be oriented so that they relate to the play activity but do not interfere with the play patterns of the users.



Attach the Biba play event markers as shown below.

**Step 2:** Stack up graphic backer (item 4) to Biba graphic (item 3) and nest them into the back of graphic frame (item 2). Position the assembly to the post next to the play event and attach using two (2) self-drilling TEK screws (item 1).

### Parts List:

#	9992	Post Markers	Qty
1	104404	1 Bolt ¼ - 14 X 2 Hex Washer TEK	12
2	906977	Alum Frame For Biba Post Sign	6
3	906984	Biba Graphic Post Orange	1
3	906983	Biba Graphic Post Purple	1
3	906982	Biba Graphic Post Yellow	1
3	906981	Biba Graphic Post Blue	1
3	906980	Biba Graphic Post Red	1
3	906979	Biba Graphic Post Green	1
4	906978	Rubber Biba post sign backer	6

# Equipment Categories

Marker colors are tied directly to each category and must be installed in the orientation shown

## Climbers Red Marker



This group contains all climbers and free standing climbers such as stepping pod climbers, rung climbers, net climbers, climbing walls, etc.

## Overheads Purple Marker



This group contains all overheads event such as overhead rotating wheels, ring treks, overhead ladders, chinning bars, etc.

## Bridge/Deck to Deck link Orange Marker



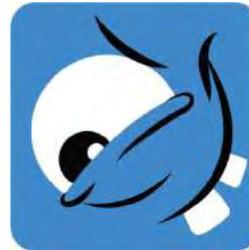
This group contains linking events such as suspension bridges, arch bridges, rope bridges, themed deck links, side step climbers, etc.

## Slides Yellow Marker



This group contains all types of slides such as spiral, curved, roller, tube, multi bed-way, etc.

## Tubes Blue Marker



This group contains crawl tubes that are structure mounted or those at ground level. In the case that the play equipment contains both a standard slide and a tube slide, then the tube slide can be placed in this category.

## Swings Green Marker



This category covers all types of swinging activities, such as multiuser dish swings, tire swings, generation swings, and tot or belt swings.

If your playground does not contain play equipment from each category, don't worry, the games can function with fewer than six markers/activities. Install markers next to each piece of equipment that is present. Markers for equipment not present should not be installed.



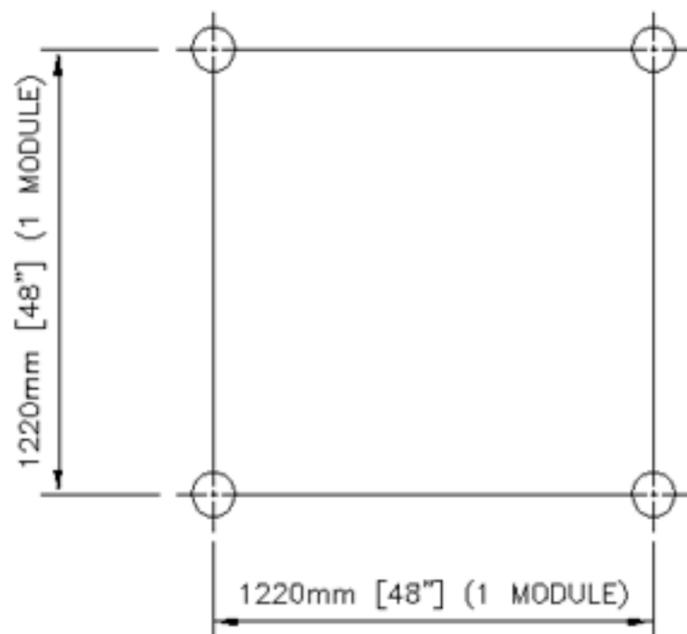
Project Number: R0324180256  
PlayArea: PlayArea\_1 | KidBuilders  
Project Name:  
Project Location:  
Sales Representative:  
Northland Recreation  
N49 W34651 Wisconsin Ave  
Okauchee ,WI 53069  
262-313-8636

## Installation Instructions

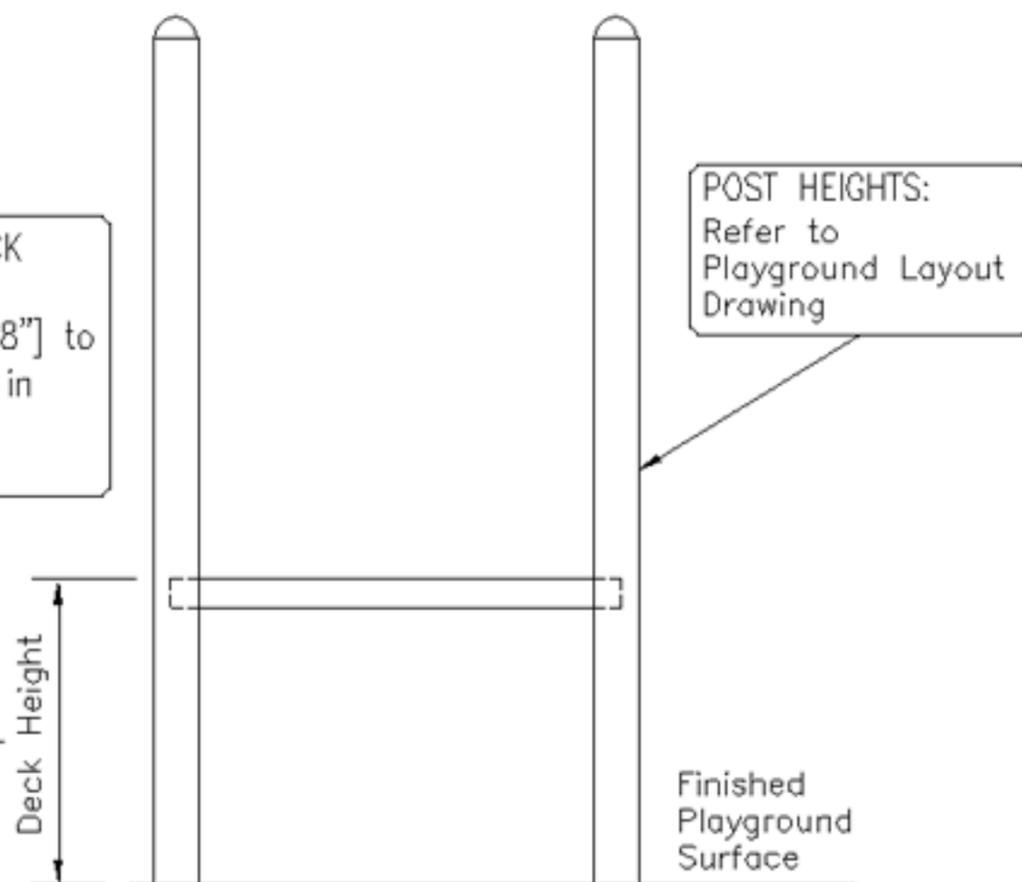
Please, read all information in this manual before starting to install your equipment.

Date: 4/19/2018 12:00:00 AM

Posts and decks of the Kid Builders system are based on a module of 1220mm [48"] x 1220mm [48"]



**STANDARD DECK HEIGHTS:**  
From 203mm[8"] to 2440mm[96"] in 203mm[8"] increments.



**NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS**

BEFORE STARTING INSTALLATION OF YOUR KID BUILDERS PLAYGROUND, "PLEASE READ INSTRUCTIONS THOROUGHLY"

AUTHORIZED BY:  
*Chris M. [Signature]* 15MAR01

**SITE REQUIREMENTS:**

The Kid Builder system is designed to suit a level site. Should there be any falls or slopes on the site, care should be taken to accommodate the entry and exit points and to maintain the correct heights.

The site must be checked for adverse or unusual conditions. i.e.

- 1) Exposed, cracked or loose concrete footings.
- 2) Worn, scattered or compressed surface material.
- 3) Exposed roots, rocks or other environmental obstacles that form potential trip hazards.
- 4) Broken glass, refuse, or foreign objects around and on play equipment.
- 5) Poor drainage areas.
- 6) All sites especially those close to existing buildings must be checked for electrical or gas lines and drainage before digging.

**MAINTENANCE:**

As the owner, it is most important that you are aware of your responsibility for the safe use of your new play equipment. It is necessary to install equipment correctly according to the installation instructions provided and inspect the equipment regularly at intervals specified within the "Maintenance Manual," located in your maintenance kit. During inspection, if any part is found to be damaged or excessively worn, equipment should immediately be put out of service while the part is replaced. Lack of "maintenance" will result in premature wear, reduced life expectancy and possible failure.

All Little Tikes Commercial Play Systems playevents have been designed and engineered to meet all applicable safety guidelines, but if installed improperly, problems may occur such as: protruding hardware, entrapment gaps between 89mm[3.5"] to 228.6mm [9"], or string entanglements. Make certain the runout heights on all slides match what is recommended on the instruction page for that model number. Any accessible bolt ends that protrude beyond the face of the nut by more than two threads should be trimmed and peened smooth by the installer. Once your installation is complete, always inspect your work. Installation must be done to the manufacturer's assembly manual and applicable safety guidelines and/or standards.

**ALL CHILDREN SHOULD BE SUPERVISED WHILE PLAYING ON EQUIPMENT.**

**SAFETY AREAS:**

The area immediately surrounding and above the play structure must be free of obstructions such as: buildings, trees, other play equipment, etc., and must be kept clear for entries, exits, traffic and falls. Make sure your site has the required surfacing and fall area designated on your Playground Layout Drawings.

**INSTALLATION MANUAL:**

We have tried to make this installation manual as comprehensive and factual as possible. Please note from time to time information may be changed or updated. Equipment shown or described throughout this manual may be changed. The right is reserved to make changes at any time without notice.

AUTHORIZED BY:  
*Chris M. [Signature]* 15MAR01

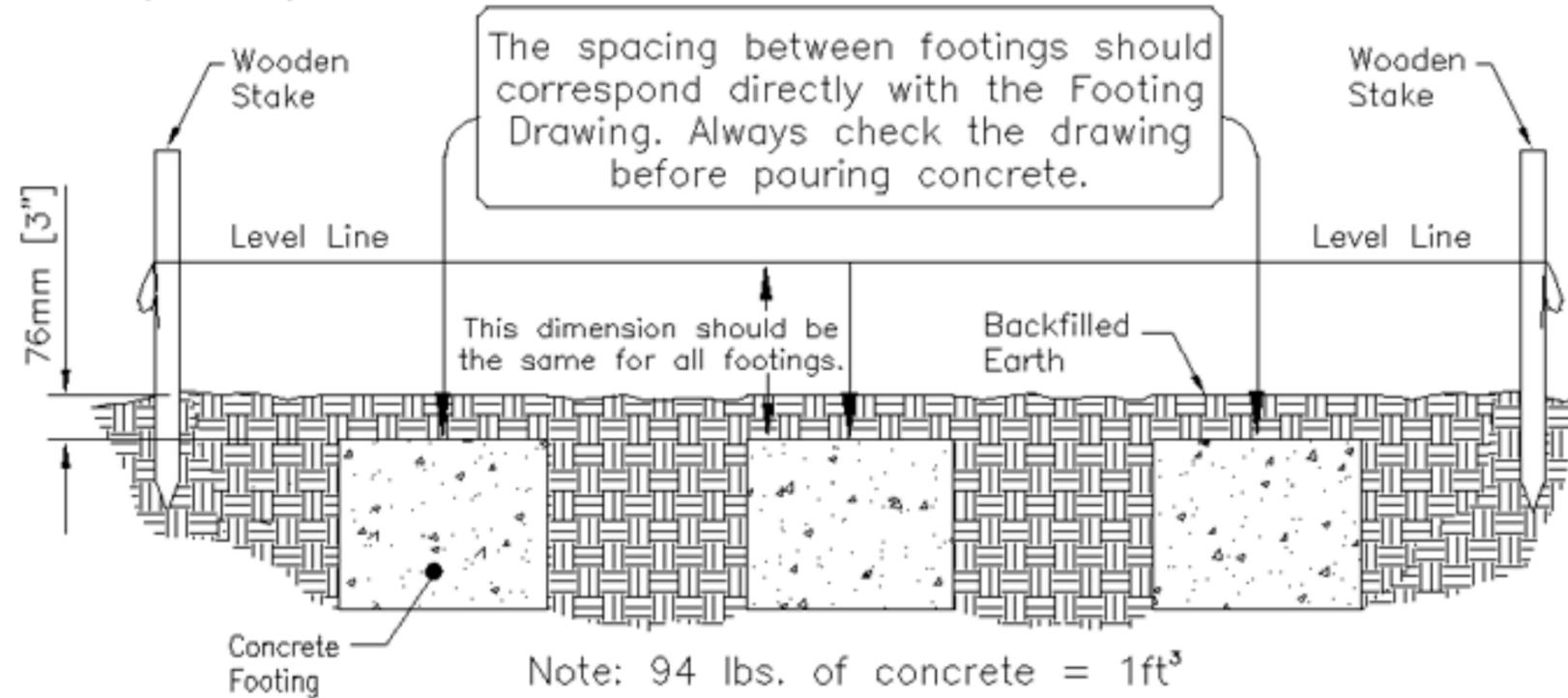
## THE ORDER OF ASSEMBLY:

- 1) Prepare your site. (Consideration is necessary for installing the talk tube on a structure. See Site Preparation Guidelines, or Talk Tube instructions for details.)
- 2) If you are using an Anchor bolt, you will need to pour concrete at least 48 hours in advance. Do not leave any open holes overnight. (Never leave a structure overnight in a potentially hazardous condition, i.e. open footing holes, open decks, exposed concrete, without roping off the area and posting warning signs. It is always best if the construction is scheduled such that the entire installation can be performed in one day, however, with larger structures this may be difficult.)
- 3) Start with the lowest deck and four posts. Calculate the location of the deck top on the first post by adding 991 [39"] to the deck height. Mark the post then install as shown. (See Square Deck installation instructions for further details. **THE INSTALLATION OF THE FIRST DECK IS CRITICAL TO PROPERLY INSTALLING THIS EQUIPMENT, SO MAKE SURE THE POSTS AND DECK ARE AT THE PROPER HEIGHT AND ARE PLUMB AND LEVEL.**)
- 4) Place this assembly in the footings. If you are sure the first deck assembly is correctly positioned, you may pour the four post footings at this time to help stabilize the structure. If installing the Surface Mount method, move the assembly to the proper location. Use the feet as templates, drill bolt holes and secure the structure to the footings.
- 5) If a Deck to Deck Plate, Ladder Panel, or Interstep Deck are to be attached to the first deck, assemble the bottom edge to the deck edge. See individual instructions for details.
- 6) Attach the next deck to two posts and move the posts into the footing holes and level the deck. Attach the two open corners of the deck to the previous deck assembly posts. Finish installing the deck to deck attachment by assembling it to the edge of the upper deck.
- 7) Attach any structure linking events or overheads to the deck assemblies, such as Crawl Tunnels, Clatter Bridges, Burmese Bridges, Suspension Bridges, Challenge Ladders, etc. Continue to add the remaining decks and deck attachments to the existing structure until all platforms are in place.
- 8) Make sure the structure is level and the decks are at the proper height. Install any roofs or enclosures.
- 9) Install all remaining events.
- 10) Tighten all hardware and install clamp drive pins. Be sure to use as many as the instructions call out.
- 11) Place warning labels on the structure. Inspect playground for protruding hardware, entrapment gaps between 89mm [3-1/2"] to 229mm [9"], and string entanglements. Make sure the runout heights on all slides match what is recommended on the instruction page for that model number. Any accessible exposed bolt ends that protrude beyond the face of the nut more than two threads should be trimmed and peened by the installer.
- 12) Install resilient surfacing on the entire "use zone".

## MAKING LEVEL FOOTINGS:

By using wooden stakes and stringing a level line, you can determine the proper height for your concrete. If available, a surveyor's transit will also be helpful.

Determine ground level at the lowest footing location and pour concrete in this location first. This level will be your datum plane. (The point at which all other footing heights are referenced from.) Pour the rest of the footings up to 76mm[3"] from the level of the datum plane. Make sure that all measurements from the top of the poured footing to the level line are the same. (Hint: If installing a surface mount structure, concrete should be poured at least 48 hours in advance of the playground being installed to ensure maximum holding potential.)



Note: 94 lbs. of concrete = 1ft<sup>3</sup>  
207 grams = 0.041m<sup>3</sup>

If installing with the Inground method, you must always backfill footings with at least 76mm[3"] of earth after concrete has cured (not shown).

## SUGGESTED TOOLS:

- |                                       |                                  |
|---------------------------------------|----------------------------------|
| - 2 Magnetic Levels                   | - Extension Cords                |
| - 1 1220[48"] Carpenter's Level       | - Water Supply/Garden Hose       |
| - 2 Measuring Tapes                   | - Wooden Stakes                  |
| - 1 Felt Tip Pen                      | - Concrete (in some cases)       |
| - 1 Sledge Hammer or Rubber Mallet    | - Some sort of digging equipment |
| - 1 610mm-915mm [24"-36"] Bolt Cutter | - Transit                        |
| - 1 Roll of String                    | - Adjustable Wrenches            |
| - Ratchets for M10 Torx Service Drive | - Metric Socket Set              |
| - Electric Drill                      | - Various Drill Bits             |
| - C-Clamps                            | - Wheel Barrow                   |
| - Saw Horses                          | - Ladders                        |
| - Resilient Ground Cover              | - Generator/ Power Source        |

AUTHORIZED BY:  
*Chris M. [Signature]* 15MAR01

**WARNING**

INSTALLATION OVER A HARD SURFACE SUCH AS CONCRETE, ASPHALT, OR PACKED EARTH MAY RESULT IN SERIOUS INJURY OR DEATH FROM FALLS.

L'INSTALLATION SUR SURFACE DURE TELLE QUE DU CIMENT, DE L'ASPHALTE OU DE LA TERRE BATTUE PEUT CAUSER DE SERIEUSES BLESSURES OU MEME LA MORT EN CAS DE CHUTE.

INSTALACION SOBRE UNA SUPERFICIE DURA, TAL COMO CONCRETO, ASFALTO O TERRENO COMPACTADO, PUEDE PROVOCAR QUE UNA CAIDA CAUSE LESIONES SERIAS O INCLUSO LA MUERTE.

Little Tikes Commercial Play Systems Inc.  
P.O. Box 897  
Farmington, MO 63640

For more information, call Little Tikes Commercial Play Systems Inc. at 1-888-458-2737 or 1-573-756-4591

← This label has been provided by Little Tikes Commercial Play Systems Inc. for the purpose of informing the user of the safety risk involved if a fall onto a hard surface occurs.

It is important when installing your play equipment to display this label in a prominent location on each structure.

This label should be placed such that it will:

- (1) Be readily visible to the intended viewer and,
- (2) Alert the viewer to the potential hazard in time to take appropriate action.

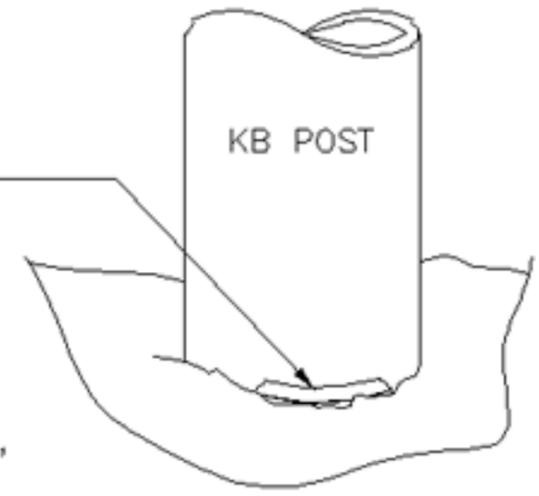
Do not place this label in a high traffic area or in a location of excessive wear. If the label becomes illegible, destroyed, or removed, it is necessary for the operator to replace the label as soon as possible.

### SLIDE INSTALLATION:

Due to manufacturing variability, the actual slide footing dimensions may vary from the installation instruction dimensions by as much as 50mm [2"]. Actual footing locations should be determined by positioning assembled equipment.

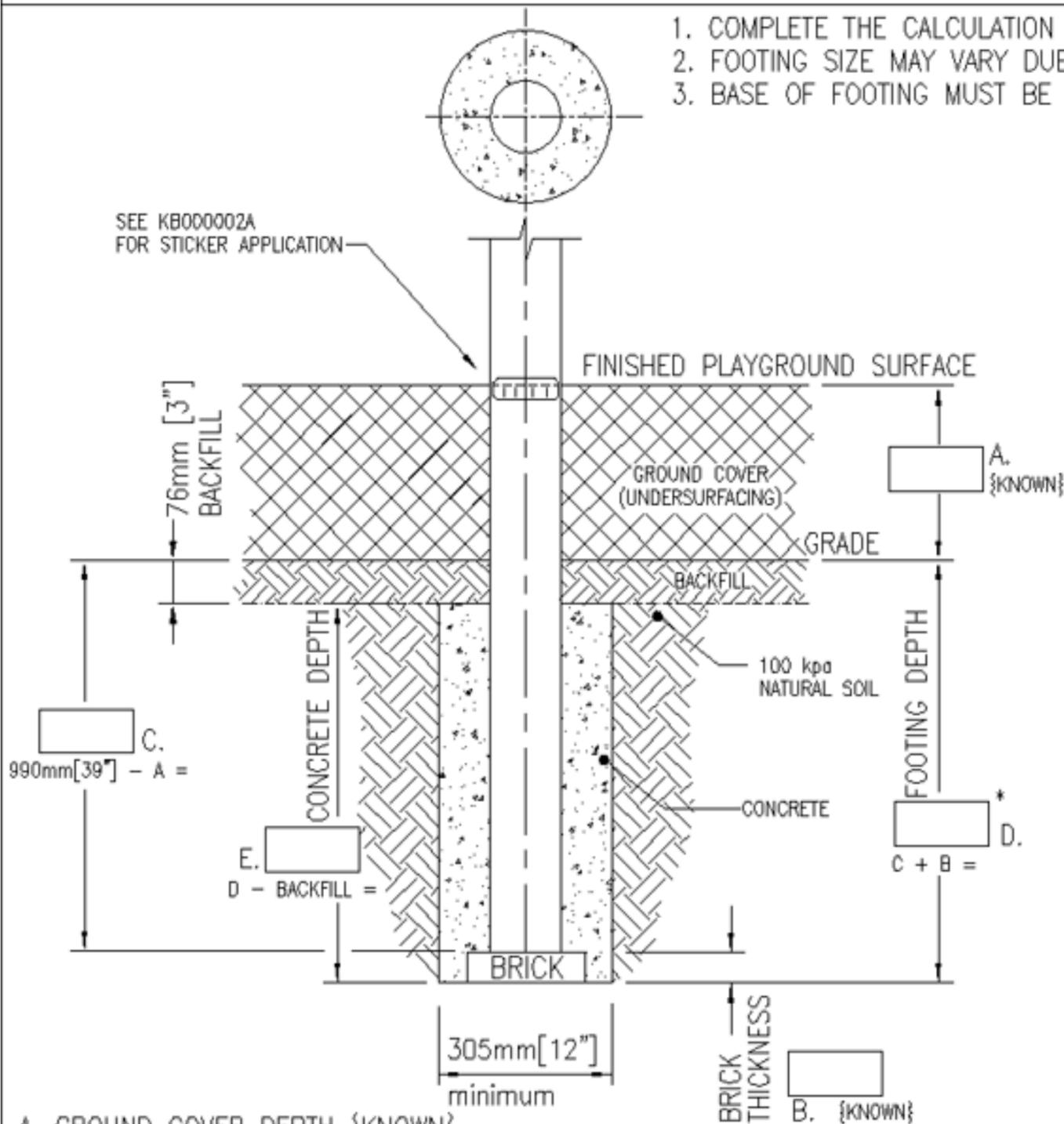
If you are in need of Material Safety Data Sheets pertaining to the use and handling of any maintenance materials such as touch-up paint, vinyl repair kits or for product such as, Kid Tiles adhesive or urethane top coatings, please contact our Customer Service Department at 1(800)325-8828. They will be able to provide you with the information you require.

<b>TOP OF SURFACE</b>	<b>HASTA A QUI</b>	<b>NIVEAU ZERO</b>
INSTALL AND MAINTAIN TOP OF RECOMMENDED SURFACING TO THIS MARK	COLOQUE Y MANTENGA HASTA LA MARCA LA SUPERFICIE RECOMENDADA	POUR L'INSTALLATION ET LA MAINTENANCE LA SURFACE AMORTISSANTE DOIT ATTEINDRE CE NIVEAU



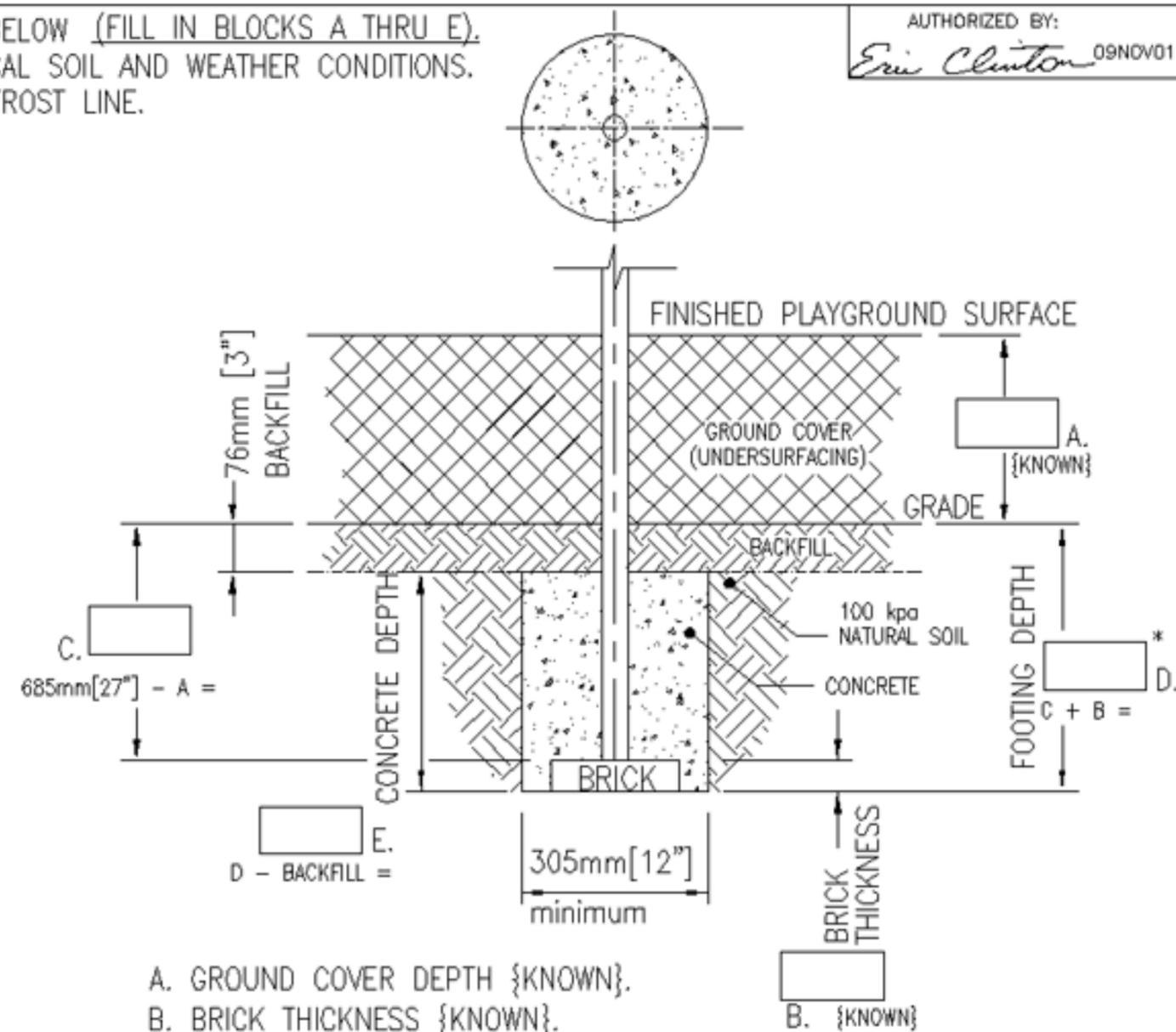
The sticker shown here has been provided to assist with the maintenance of your ground cover. After installing the ground cover, these stickers should be placed on the post by the installer (as shown). Peel the backing away from the sticker and attach it to the post so that the line is level with the top of your ground cover. As erosion or compaction of surfacing occurs, the line will be visible. This will indicate that it is time to add material to your surfacing.

1. COMPLETE THE CALCULATION SHEET BELOW (FILL IN BLOCKS A THRU E).
2. FOOTING SIZE MAY VARY DUE TO LOCAL SOIL AND WEATHER CONDITIONS.
3. BASE OF FOOTING MUST BE BELOW FROST LINE.



- A. GROUND COVER DEPTH {KNOWN}.
- B. BRICK THICKNESS {KNOWN}.
- C. 990mm[39"] - A BECAUSE A + C SHOULD ALWAYS EQUAL 990mm[39"]
- D. FOOTING DEPTH = [C] + BRICK THICKNESS.  
\*MINIMUM 610mm[24"] + BRICK THICKNESS FOOTING DEPTH REQUIRED
- E. CONCRETE DEPTH = FOOTING DEPTH [D] - 76mm[3"] (BACKFILL).

## KB POST FOOTING - INGROUND



- A. GROUND COVER DEPTH {KNOWN}.
- B. BRICK THICKNESS {KNOWN}.
- C. 685mm[27"] - A  
BECAUSE A + C SHOULD ALWAYS EQUAL 685mm[27"]
- D. FOOTING DEPTH = [C] + BRICK THICKNESS.  
\*MINIMUM 305mm[12"] + BRICK THICKNESS FOOTING DEPTH REQUIRED
- E. CONCRETE DEPTH = FOOTING DEPTH [D] - 76mm[3"] (BACKFILL).

## KB PLAYEVENT FOOTING - INGROUND

HOW MUCH CONCRETE?

VOLUME OF CONCRETE REQUIRED FOR FOOTINGS:

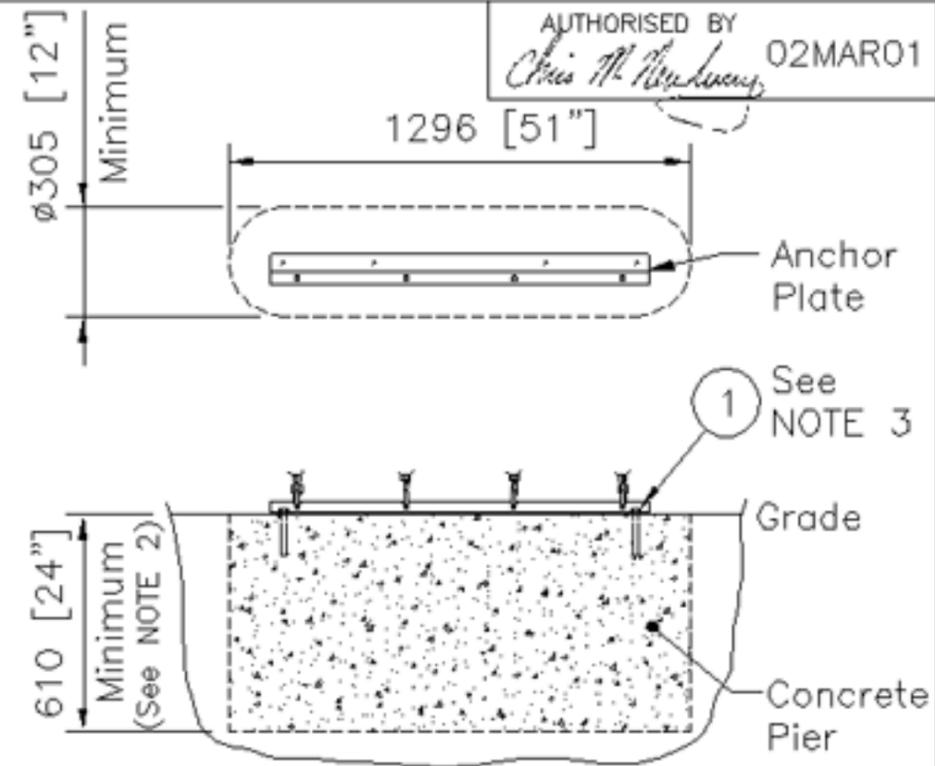
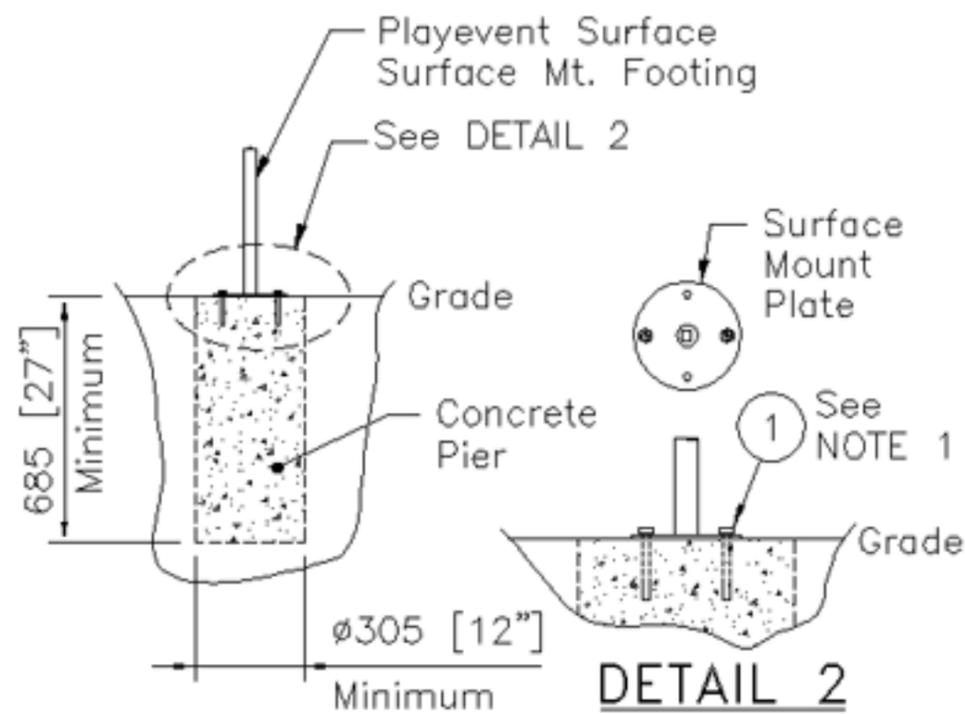
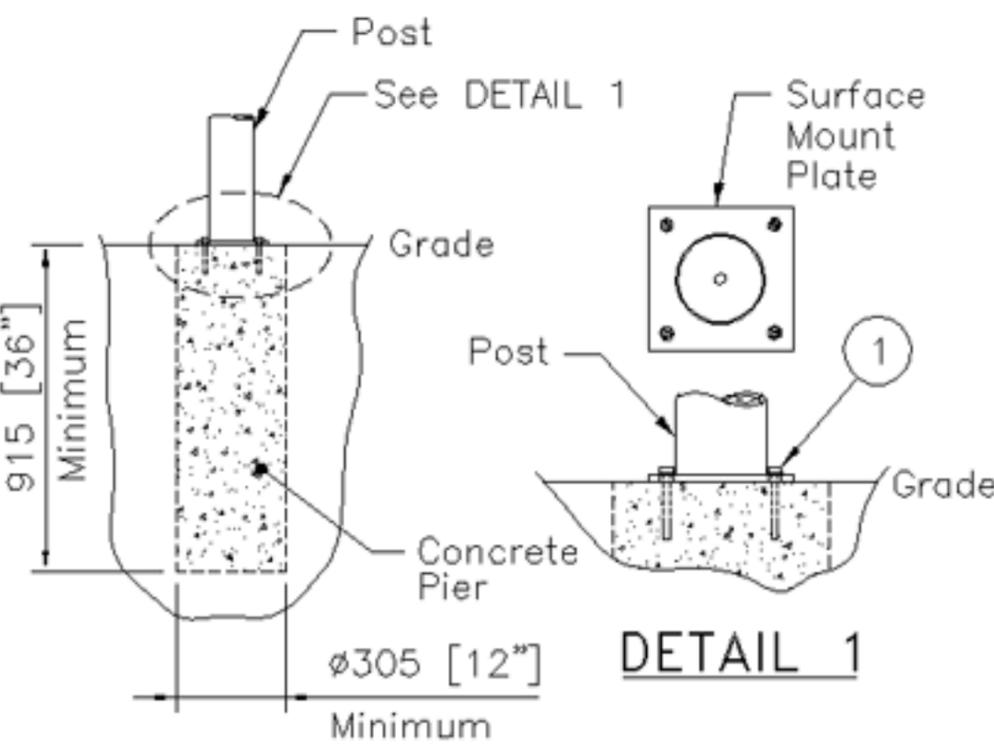
= 0.067 M<sup>3</sup> x  $\frac{\text{CONCRETE DEPTH (mm)}}{915}$  x No. OF FOOTING HOLES = M<sup>3</sup>

= 0.087 Yard<sup>3</sup> x  $\frac{\text{CONCRETE DEPTH (IN)}}{36}$  x No. OF FOOTING HOLES = Yard<sup>3</sup>

NOTES: - TO CALCULATE CUBIC FEET, MULTIPLY CUBIC YARD BY 27  
- 94 lbs OF CONCRETE = 1 CUBIC FOOT.

AUTHORISED BY  
*Chris M. [Signature]* 02MAR01

## OPTION 1: PIER



**NOTE 1:** Two per plate, diagonally located.

**NOTE 2:** Depth is less than round anchor because of extra volume of concrete.

**NOTE 3:** Anchor bolts shown on ends, but can be moved to other holes if necessary for accessibility.

### Round Anchor

### Anchor Plate

Post Footing Parts List (Surf. Mt. Anchor)			
Item	Dwg Ref	Description	Qty.
1	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100MM	4

### Post Footing

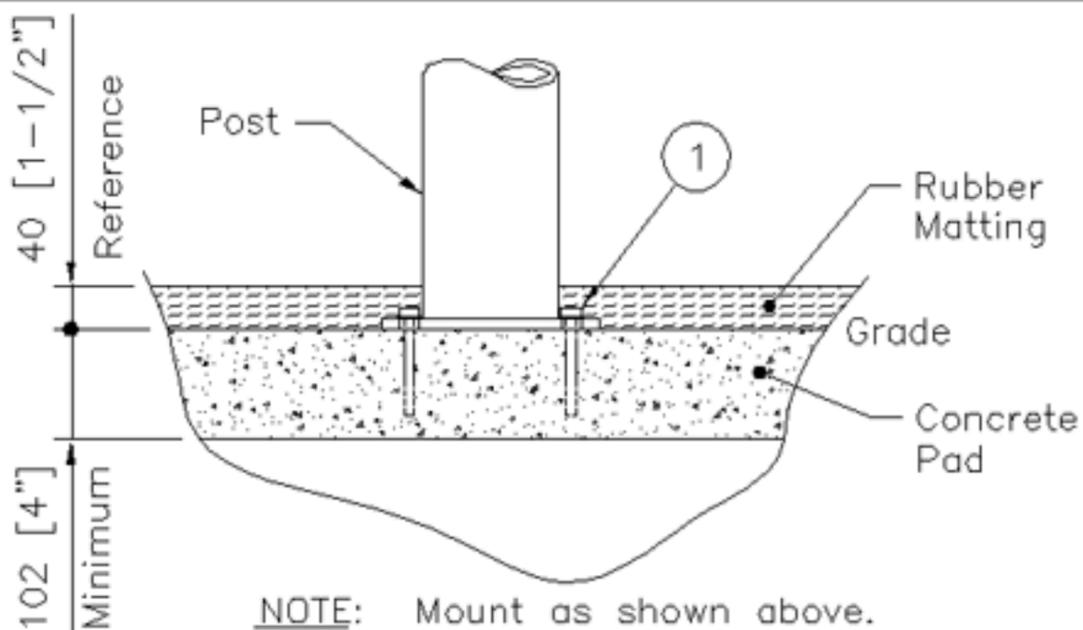
Playevent Footing Parts List (Surf. Mt. Anchor)			
Item	Dwg Ref	Description	Qty.
1	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100MM	2

### Playevent Footing

## OPTION 2: CONCRETE PAD

**NOTE 4:** Concrete may require up to 3 days to cure.

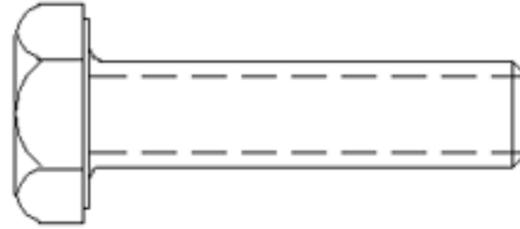
**NOTE 5:** A 3/8" Masonry bit is required to install anchor bolts.



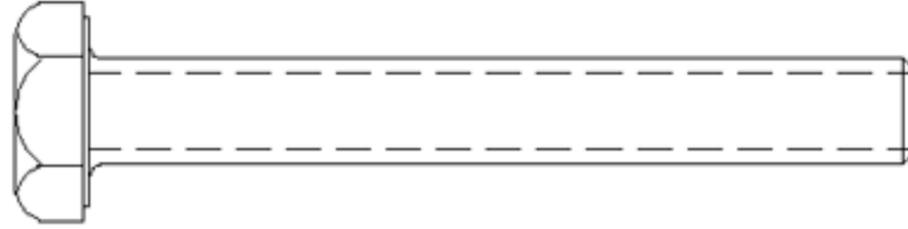
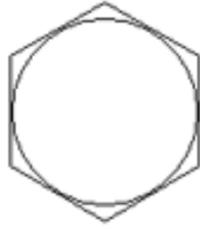
**NOTE:** Mount as shown above.

AUTHORIZED BY:  
*Chris M. Newberry* 01MAR01

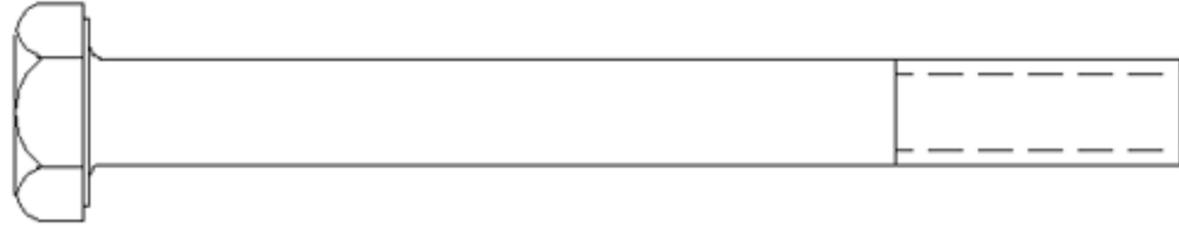
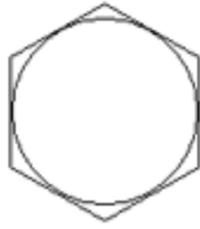
200001850  
CAP SCREW HEX HEAD M10 x 1.50 x 40mm



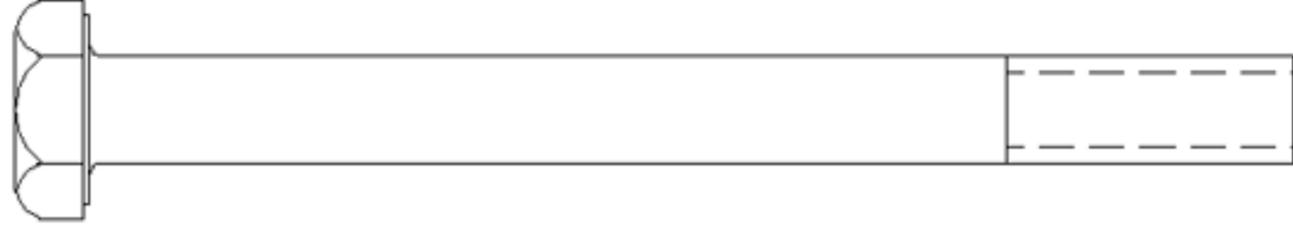
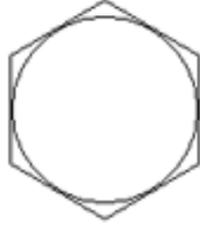
200001859  
CAP SCREW HEX HEAD M10 x 1.50 x 75mm



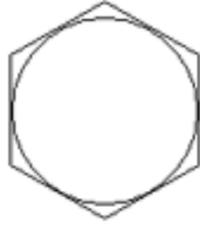
200001866  
CAP SCREW HEX HEAD M10 x 1.50 x 100mm



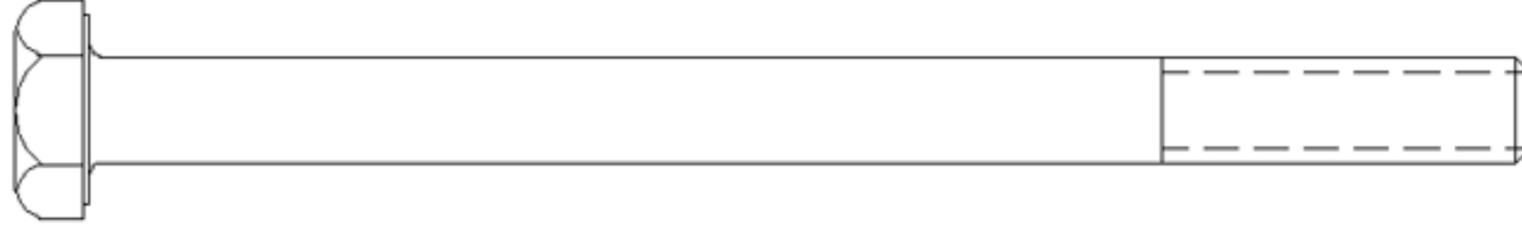
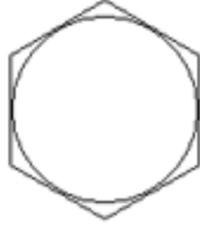
200001875  
CAP SCREW HEX HEAD M10 x 1.50 x 110mm



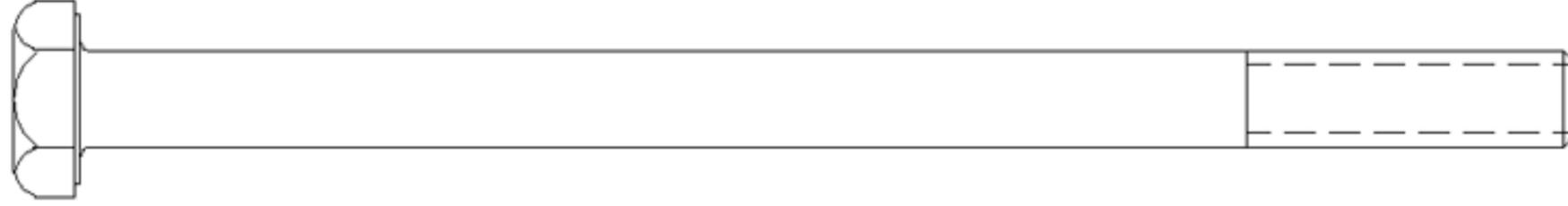
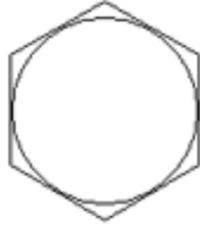
200001879  
CAP SCREW HEX HEAD M10 x 1.50 x 120mm

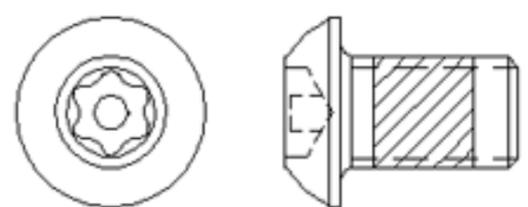


200001883  
CAP SCREW HEX HEAD M10 x 1.50 x 130mm

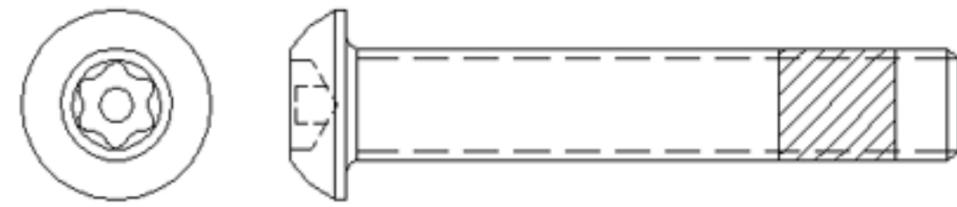


200000792  
CAP SCREW HEX HEAD M10 x 1.50 x 150mm

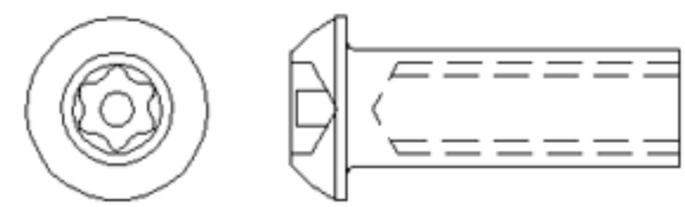




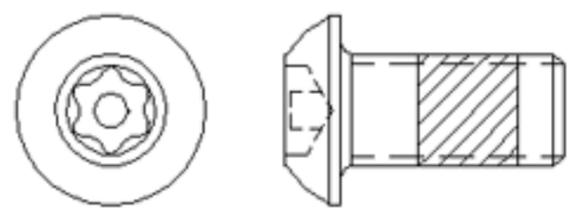
200002010  
SCREW MACH BUTTONHEAD M10 x 1.50 x 16mm



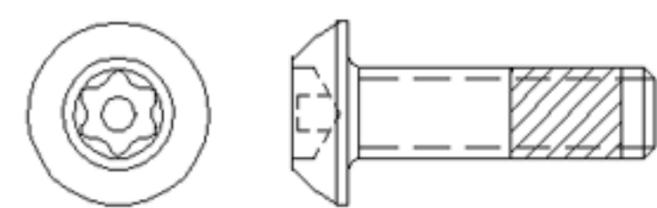
200002150  
SCREW MACH BUTTONHEAD M10 x 1.50 x 55mm



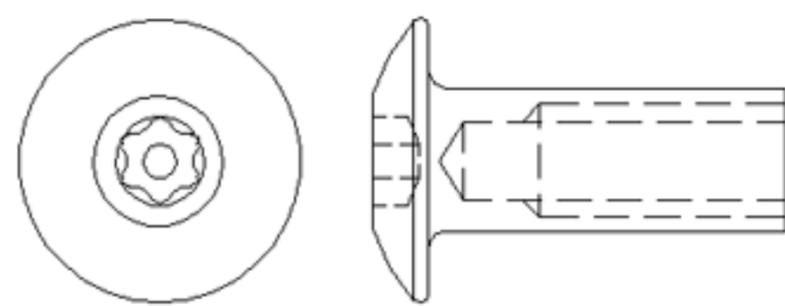
200002145  
BOLT M8 x 1.25 FEMALE 10.3 x 30mm



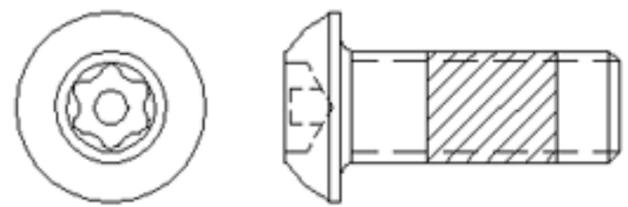
200002014  
SCREW MACH BUTTONHEAD M10 x 1.50 x 20mm



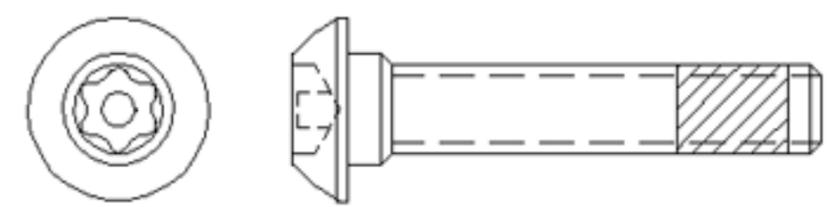
200002133  
BOLT M8 x 1.25 MALE 27.5mm



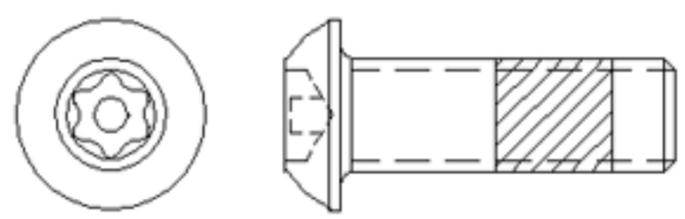
200001954  
BARREL NUT M10 X 1.50 (12.70 DIA x 32mm)



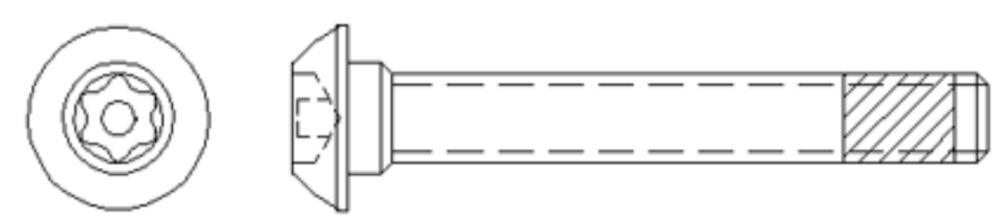
200002018  
SCREW MACH BUTTONHEAD M10 x 1.50 x 25mm



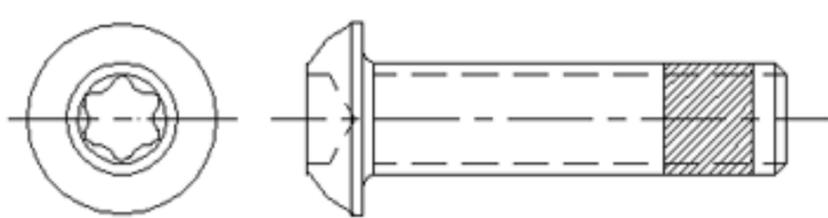
200002138  
BOLT M8 x 1.25 MALE 42.5mm



200002030  
SCREW MACH BUTTONHEAD M10 x 1.50 x 30mm

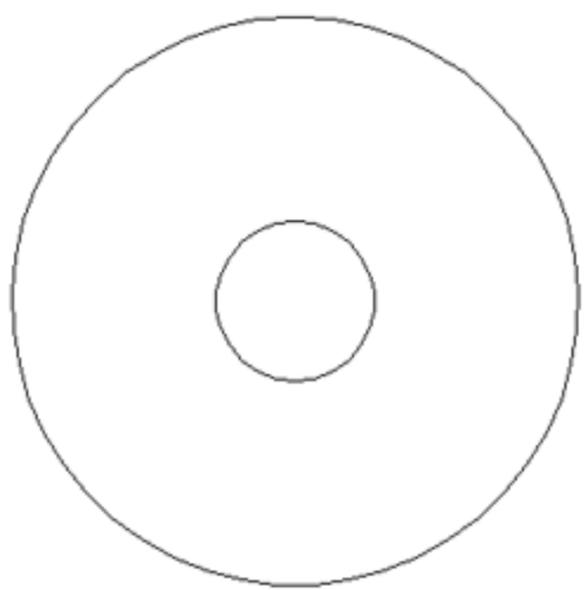


200002142  
BOLT M8 x 1.25 MALE 57.5mm

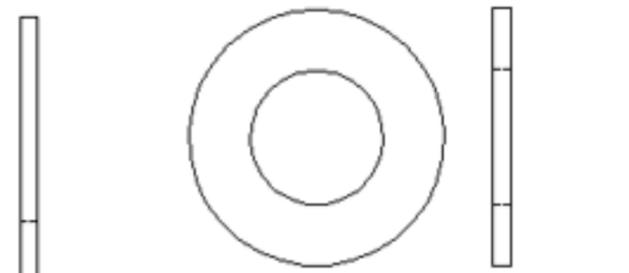


200097726  
SCREW MACH BUTTONHEAD M10 x 1.50 x 38mm

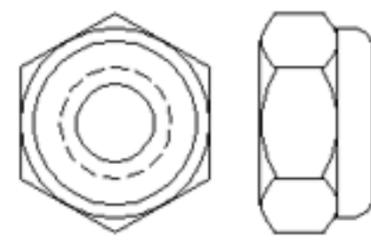
AUTHORIZED BY:  
BARRY WILFONG 15FEB12



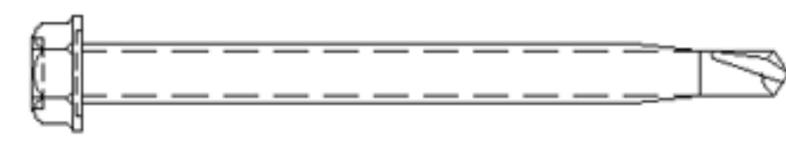
200002113  
WASHER FLAT M12 (51 x 14.5 x 2mm)



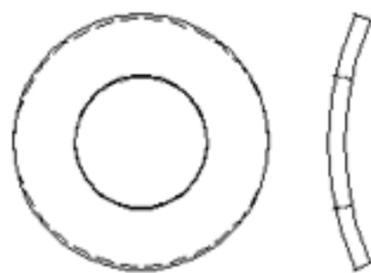
200002079  
WASHER FLAT M11 23 x 12 X 1.6mm



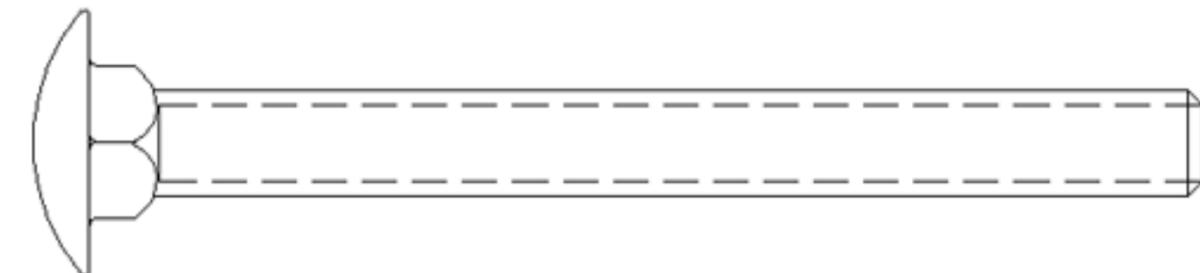
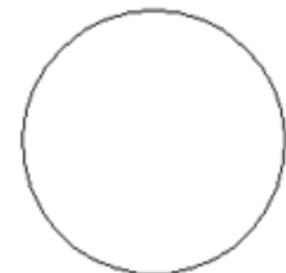
200001945  
NUT LOCK HEX NYLON INSERTED M10 x 1.5



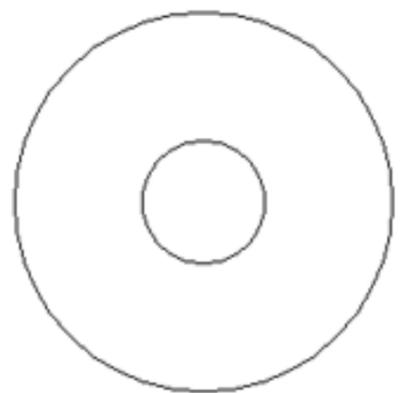
200002002  
SCREW DRILL HEX HEAD M6 .3 x 1.81 x 65mm



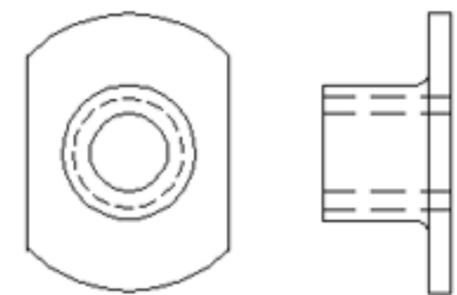
200008483  
WASHER BOWED M11 23.5 x 11.7 x 1.57 mm



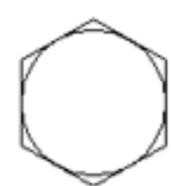
200001810  
BOLT CARRIAGE M10 x 1.50 x 100mm



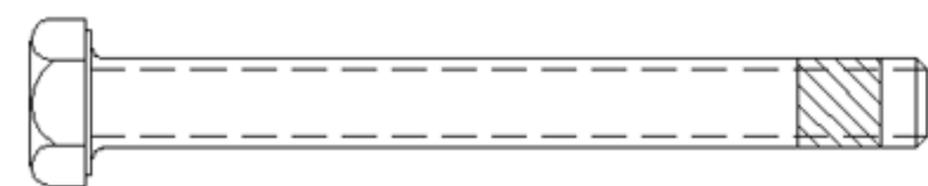
200002096  
WASHER FLAT M10 34OD x 11ID x 3 mm THK



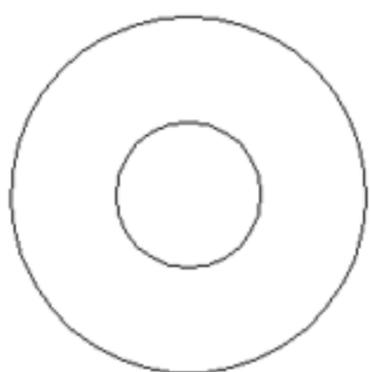
200001966  
T-NUT SLAB BASE M10 x 1.50 x 9.5mm



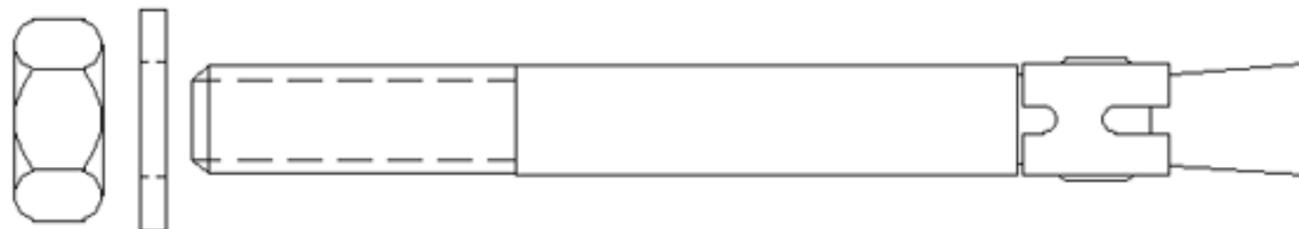
200001826  
CAP SCREW HEX HEAD M8 X 1.25 X 75mm



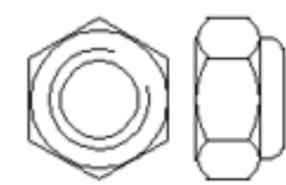
200001986  
SCREW U-DRIVE ROUND HEAD M5 x 16mm



200002100  
WASHER FLAT M11 32OD x 13ID x 2 mm THK



200001776  
ANCHOR CONCRETE WEDGE M10 x 1.5 x 100mm



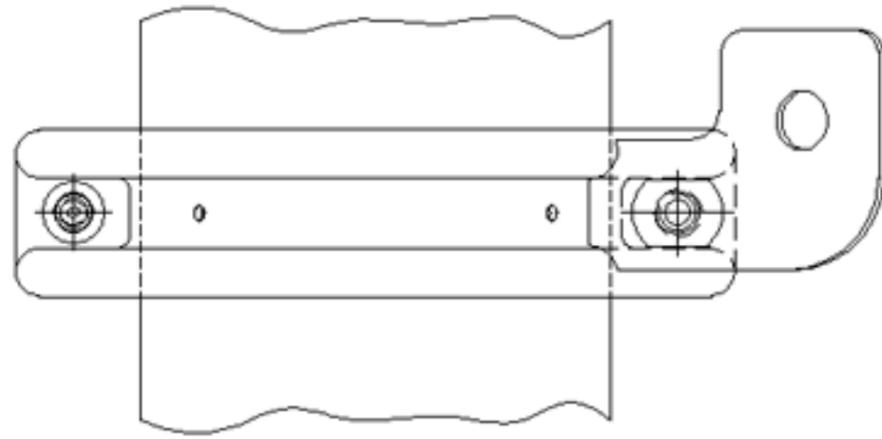
200001934  
NUT LOCK HEX NYLON INSERTED M8 x 1.25



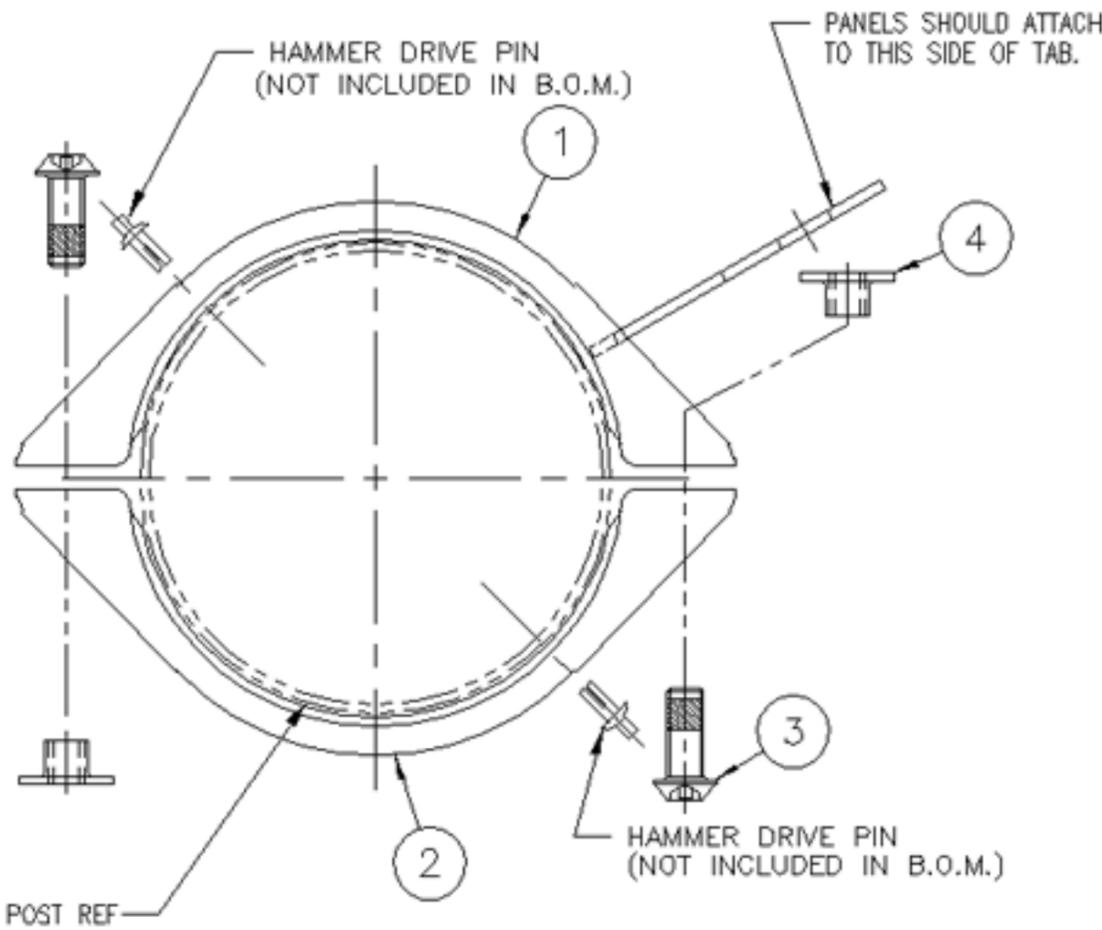
# CLAMP HI-LO TAB F/KB

# CLAMP HI-LO TAB F/KB

200079200



**NOTE:**  
TAB WILL BE DIRECTED UP (AS SHOWN) ON ONE SIDE OF THE PANEL AND DOWN ON THE OTHER SIDE OF THE PANEL



CLAMP HI-LO TAB F/KB			
Item	Dwg Ref	Description	Qty.
1	-	CLAMP HI-LO TAB F/ KB	1
2	-	CLAMP HALF W/O WELDED ATTACHMENT	1
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	2
4	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	2

**Specifications**

**CLAMP**  
MATERIAL: STAMPED SHST  
COLOR: AS SELECTED FROM STD. COLOR RANGE.  
FINISH: ELECTROSTATICALLY APPLIED POLYESTER DRY POWDER COAT

**FASTENERS**  
FINISH: STAINLESS STEEL.

**Application**

- FOR USE WHEN HIGH-LOW CLAMP CONFIGURATION IS NEEDED TO ATTACH PANELS.

**Maintenance**

- CHECK ALL HARDWARE  
- TOUCH UP ANY MARRED PAINT SURFACE

**Installation Instructions**

1. POSITION THE CLAMP HALVES AROUND THE POST AND LOOSELY CONNECT HALVES TOGETHER WITH THE HARDWARE SHOWN. CLAMPS SHOULD BE ORIENTED SO THAT PANELS WILL ATTACH TO THE TAB FACE SHOWN IN THE DETAIL.
2. MOVE THE CLAMP ASSEMBLY ALONG THE POST UNTIL IT LINES UP WITH THE LOCATION THAT IT WILL BE CONNECTED TO THE PANEL. COMPLETE THE PANEL CONNECTION AS SPECIFIED IN THE INDIVIDUAL PANEL INSTRUCTION.
3. LEVEL THE CLAMP ASSEMBLY AROUND THE POST AND TIGHTEN CLAMP HARDWARE.
4. AS A LAST STEP IN THE PLAYGROUND INSTALLATION, INSTALL HAMMER DRIVE PINS. LOCATE ONE OF THE EXISTING SMALL HOLES IN A CLAMP HALF. (EITHER HOLE CAN BE USED, USE THE MOST ACCESSIBLE.) THIS WILL BE THE DRILLING SITE FOR THE HAMMER DRIVE PIN. DRILL A 5mm (3/16") DIA. HOLE INTO THE POST. INSERT THE HAMMER DRIVE PIN INTO THE HOLE. TAP THE CENTER CORE PIN INWARD UNTIL IT IS FLUSH WITH THE OUTER PIN SURFACE. BE CAREFUL NOT TO MAR THE PAINTED SURFACES. REPEAT ON THE OTHER CLAMP HALF. HAMMER DRIVE PINS ARE SHIPPED SEPERATELY FROM CLAMP HARDWARE.

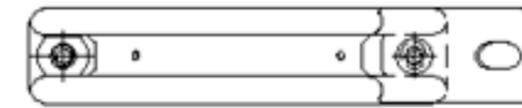
NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

KB000009A

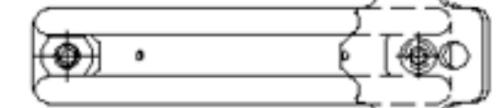
AUTHORIZED BY:  
*[Signature]* 03AUG99

PANEL OR WING CLAMP

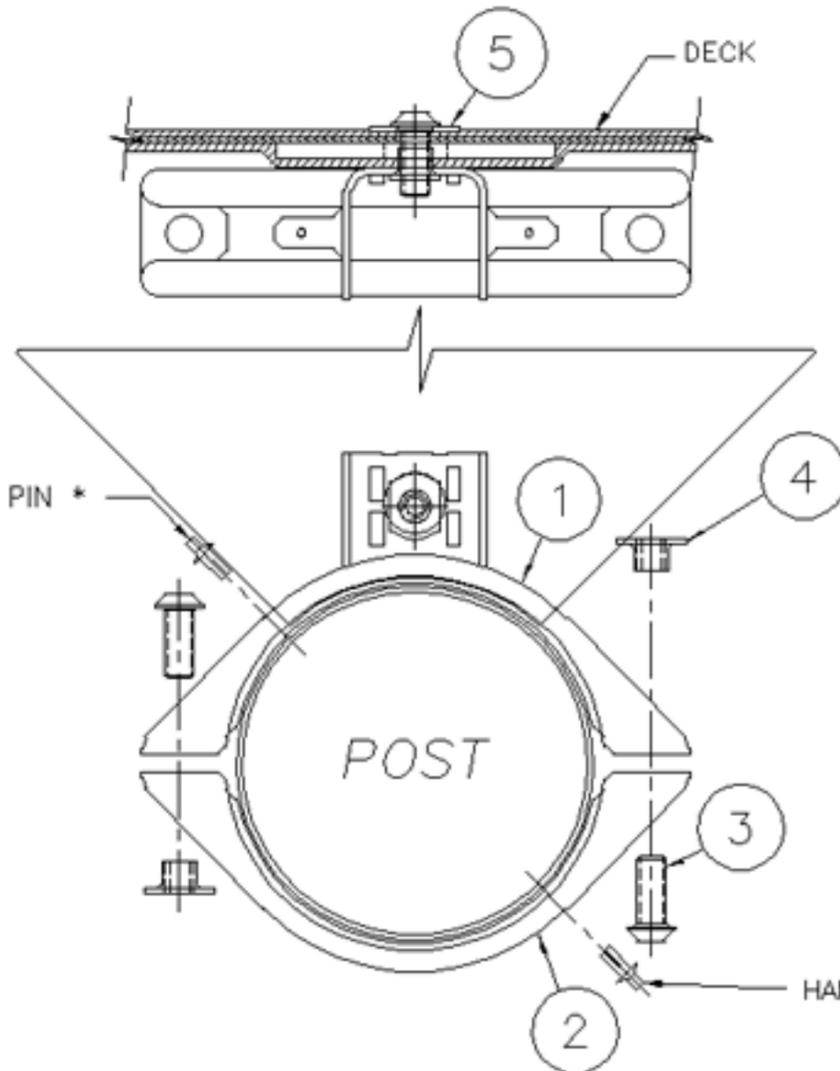
ITEM	CODE	DESCRIPTION	QTY
1	-	CLAMP HALF W/TAB F/PANEL MT. ZN	1
-OR-	-	CLAMP HALF W/TAB F/KB WING CLAMP	1
2	-	CLAMP HALF W/O WELDED ATTACHMENT ZN	1
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	2
4	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	2



REF: PANEL CLAMP

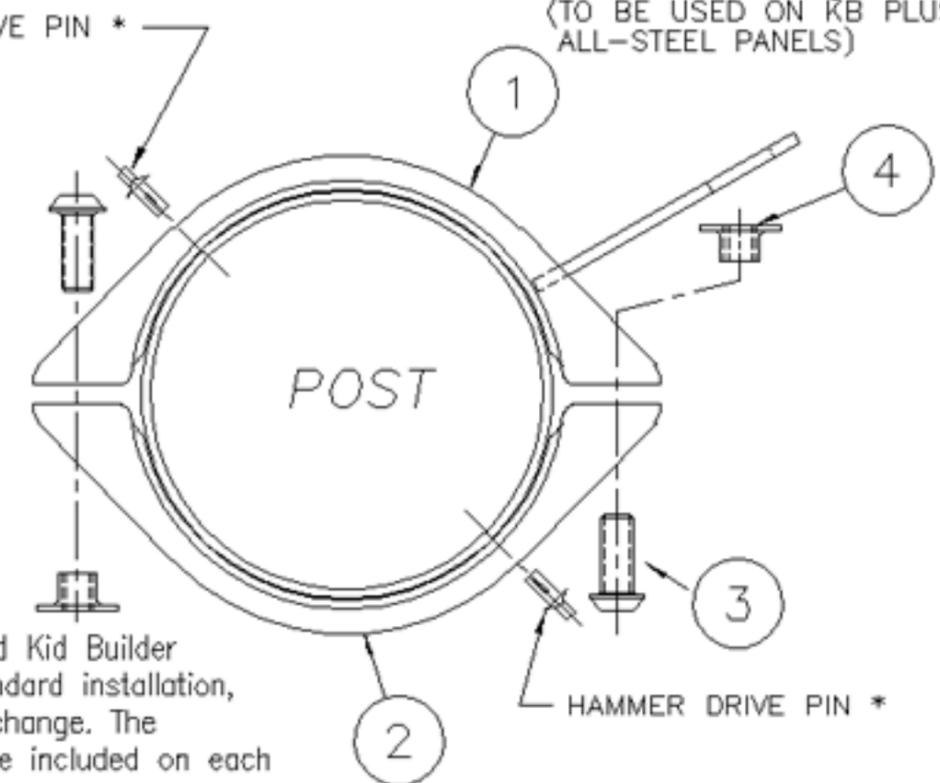


REF: WING CLAMP  
(TO BE USED ON KB PLUS ALL-STEEL PANELS)



DECK CLAMP

ITEM	CODE	DESCRIPTION	QTY
1	-	CLAMP HALF W/NEW DECK ATTACHMENT ZN	1
2	-	CLAMP HALF W/O WELDED ATTACHMENT ZN	1
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	3
4	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	3
5	200002100	WASHER FLAT M11 320D X 131D X 2 MM THK	1



The following details illustrate the assembly of all standard Kid Builder Clamps. If a component requires an exception to the standard installation, the instruction page for that component will reflect that change. The hardware used to attach a Panel Clamp to a panel will be included on each component page.

1. Each Clamp half will have a small hole and a large hole on opposite sides. The Larger hole accommodates the Tee Nuts.
2. Always make sure the event is at the proper height and the clamps are level before Hammer Drive Pins are installed.
3. There will also be two smaller pilot holes on each clamp half. Pick the most accessible hole and drill a 5mm dia. hole through the clamp half and the post. Tap the pins in with a rubber mallet or hammer. Be careful not to mar paint surfaces. Also, all Rail Clamp attachments will have pilot holes for hammer drive pin installation.

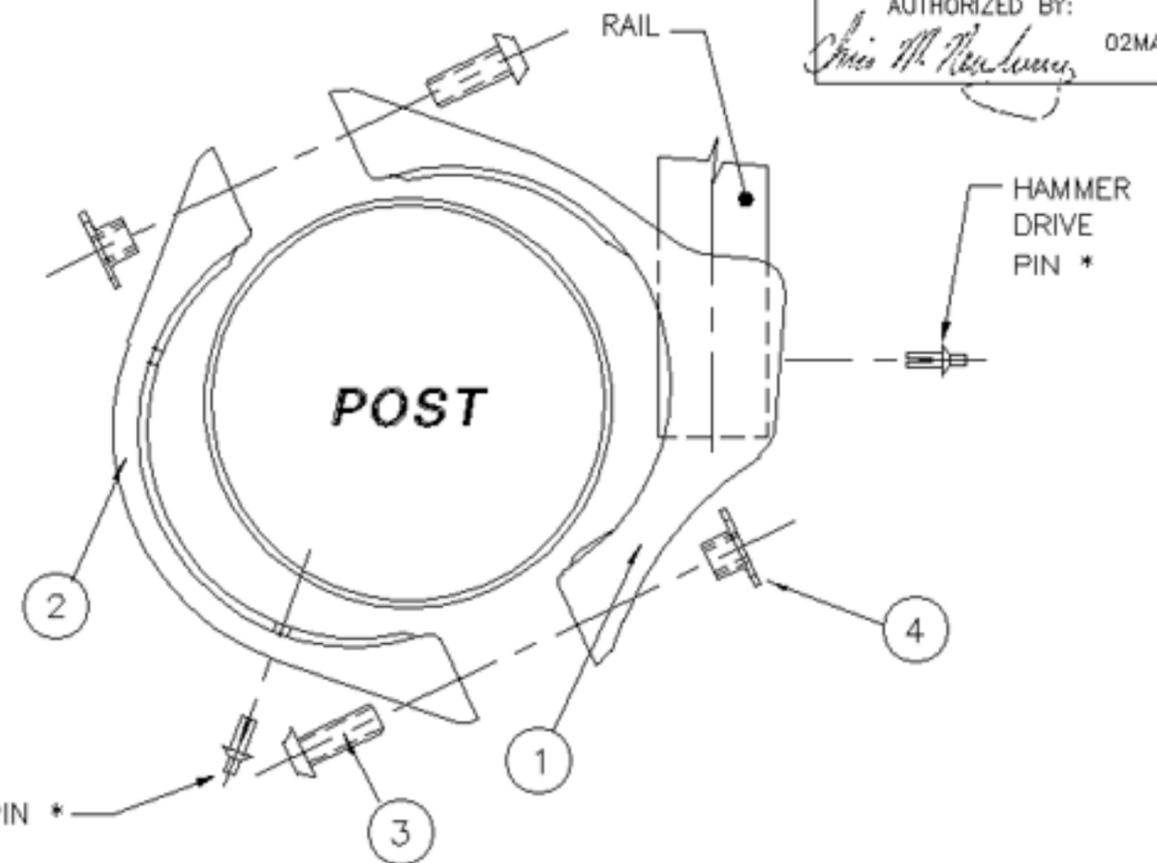
\* Hammer drive pins are not included in the clamp hardware bag. They are located in a separate bag in the hardware kit.

AUTHORIZED BY:  
*Chris M. Newberry* 02MAR01

The following details illustrate the assembly of all standard Kid Builder Clamps. If a component requires an exception to the standard installation, the instruction page for that component will reflect that change.

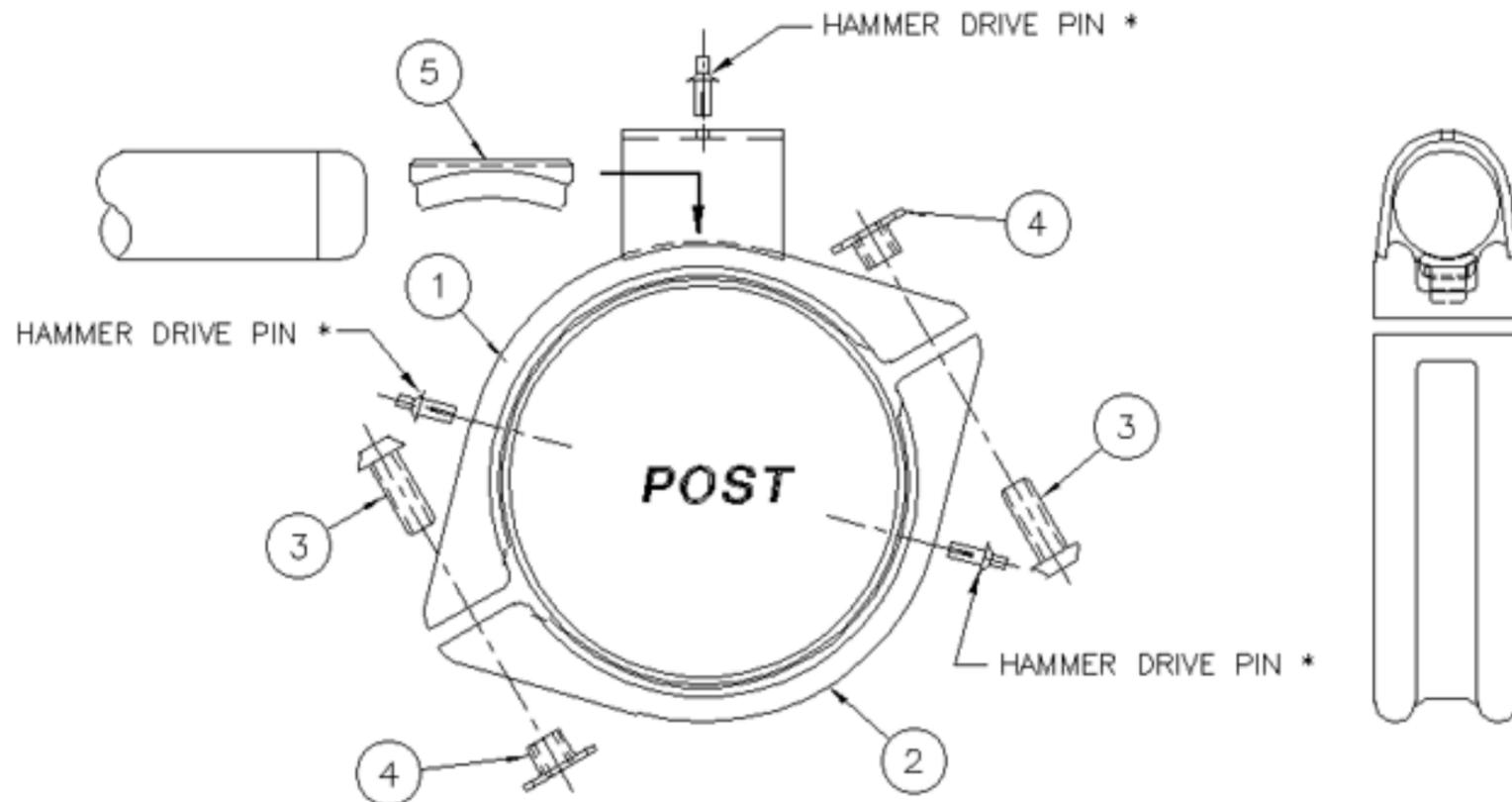
1. Each Clamp half will have a small hole and a large hole on opposite sides. The Larger hole accommodates the Tee Nuts.
2. Always make sure the event is at the proper height and the clamps are level before Hammer Drive Pins are installed.
3. There will also be two smaller pilot holes on each clamp half. Pick the most accessible hole and drill a 5mm dia. hole through the clamp half and the post. Tap the pins in with a rubber mallet or hammer. Be careful not to mar paint surfaces. Also, all Rail Clamp attachments will have pilot holes for hammer drive pin installation.

\* Hammer drive pins are not included in the clamp hardware bag. They are located in a separate bag in the hardware kit.



## 30 DEG. RAIL CLAMP W/ WEDGE

ITEM	DRG REF	DESCRIPTION	QTY
1	-	CLAMP HALF W/ATT. F/RAILS ZN 30 DEG.	1
2	-	CLAMP HALF W/O WELDED ATTACHMENT ZN	1
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25 MM	2
4	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5 MM	2
5	200000733	SPACER WEDGE ALUM. F/KB CLAMP F/SLOT	1



## HOODED RAIL CLAMP

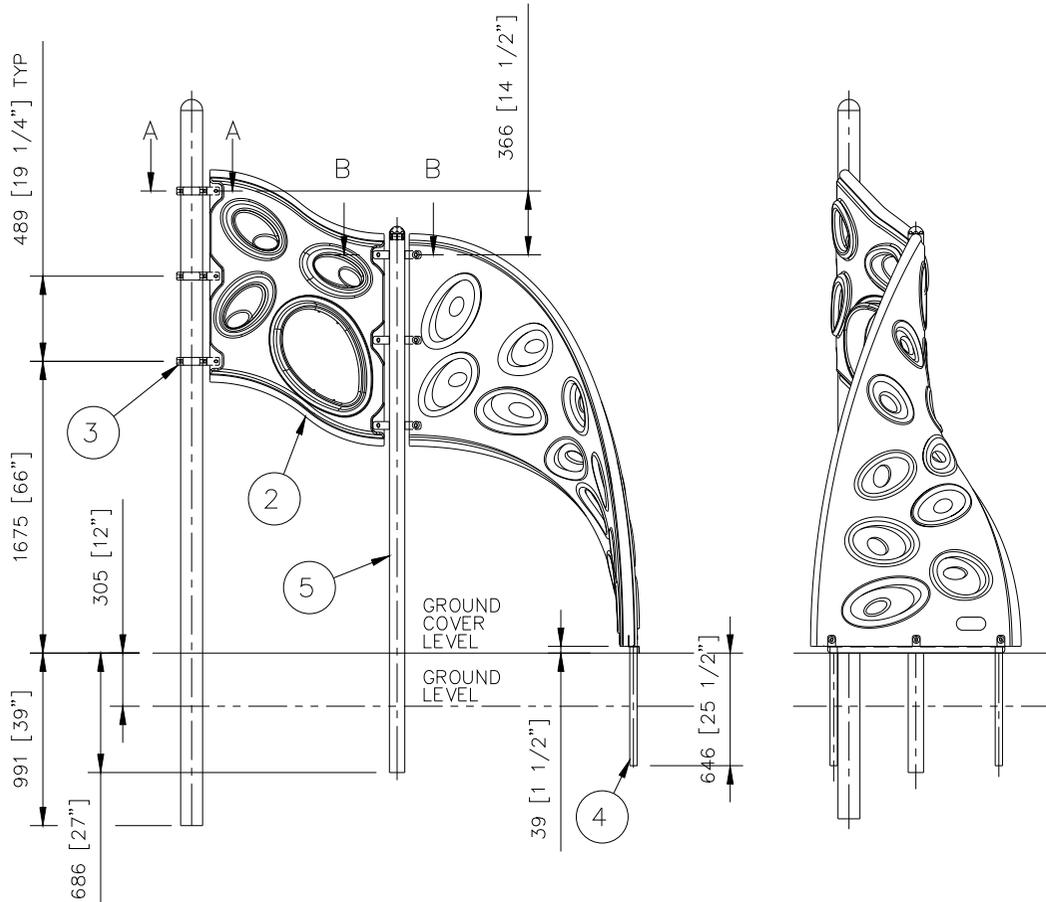
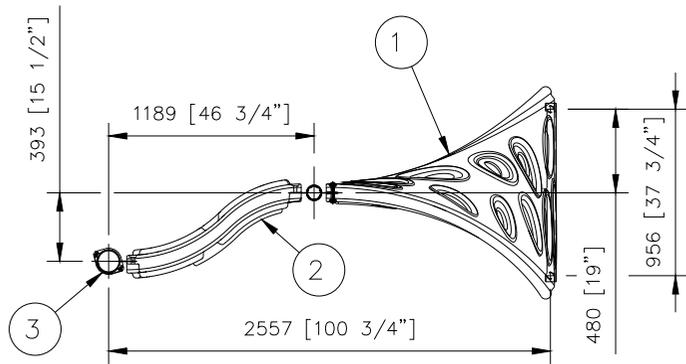
ITEM	DRG. REF	DESCRIPTION	QTY
1	-	CLAMP HALF W/HOODED RAIL ATTACHMENT ZN	1
2	-	CLAMP HALF W/O WELDED ATTACHMENT ZN	1
3	200002018	SCREW MACH. BUTTONHEAD M10 X 1.5 X 25mm	2
4	200001966	T-NUT SLAB BASE M10 X 1.5 X 9.5mm	2

# INSTR. F/INFINITY FLEX SINGLE FREESTAND

200181022  
1300014A  
Sheet 1 of 2

AUTHORIZED BY: 03APR09

*Chris M. Anderson*



NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

## INFINITY FLEX FREE STANDING SGL 200202141

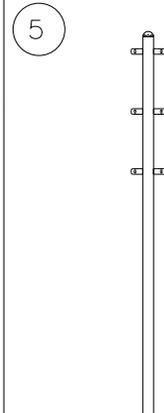
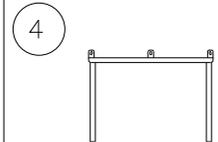
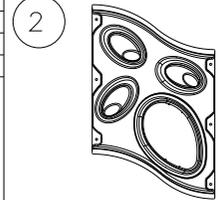
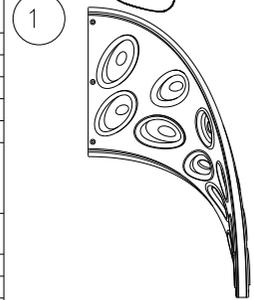
Item	Code	Description	Qty.
1	-	CLIMBER INFINITY	1
2	-	INFINITY PAD	1
3	-	KB PANEL CLAMP ASSEMBLY	3
4	-	FOOTING INGRESS F/INFINITY CLIMBER BRN	1
5	-	TUBE 6 TAB 3358MM INFINITY INGRESS TAN	1

## HDWR BAG F/INFINITY FLEX FREESTANDING SGL 200180557

Item	Code	Description	Qty.
6	200001826	CAP SCRW HEX HD M8 X 1.25 X 75MM W/PATCH	6
7	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30 MM	12
8	200002138	BOLT M8 X 1.25 MALE 42.5 MM	6
9	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	24
10	200002100	WASHER FLAT M11 32OD X 13ID X 2 MM THK	18
11	200002311	CAP HDWR COVER	24
12	200002340	CAP HDWR BASE	24

### Installation Instructions

1. Prepare Footings.
2. Loosely attach Footing Support (item 4) to bottom end (the end with color Logo) of the Climber (item 1) as shown in Section B-B.
3. Place Climber in footing and loosely attach to the center post (item 5) as shown in Section B-B.
4. Loosely attach Panel Clamps to upper end of the Pad climber as shown in Section A-A. Note: This component can be either installed going up or down, as long as sufficient fall absorption material is available and another component is available to provide a continuation of the play path.
5. Loosely attach Pad climber to the center post and to the KB post. Refer to front of manual for clamp installation detail.
6. Check posts for plumb, check height of the clamps and tighten all hardware. Install hardware caps and clamp hammer drive pins.
7. Complete footings and install resilient surfacing.



INSTR. F/INFINITY FLEX SINGLE FREESTAND

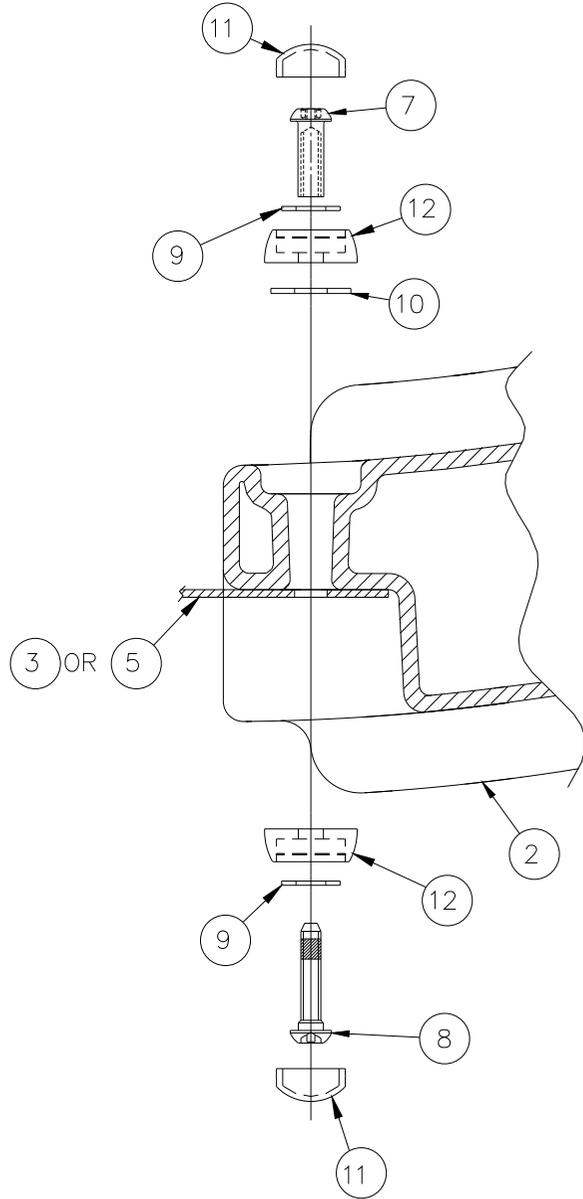
200181022

I300014A

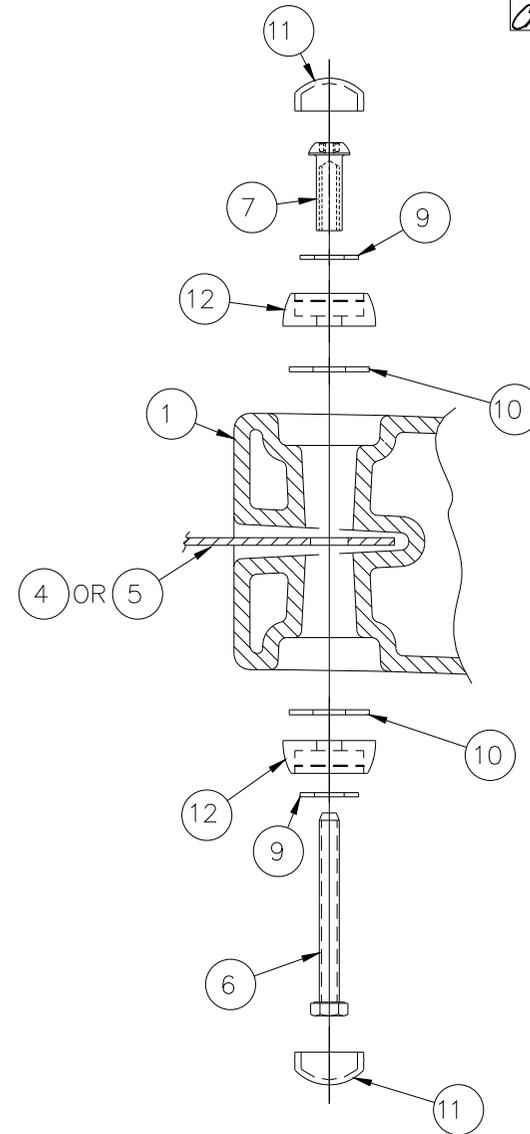
Sheet 2 of 2

AUTHORIZED BY: 03APR09

*Chris M. Newberry*



SECTION A-A  
1:2  
TYP 6 PL



SECTION B-B  
1:2  
TYP 6 PL

NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

# 1830mm [6'] & 2440mm [8'] STRAIGHT BALANCE BEAM

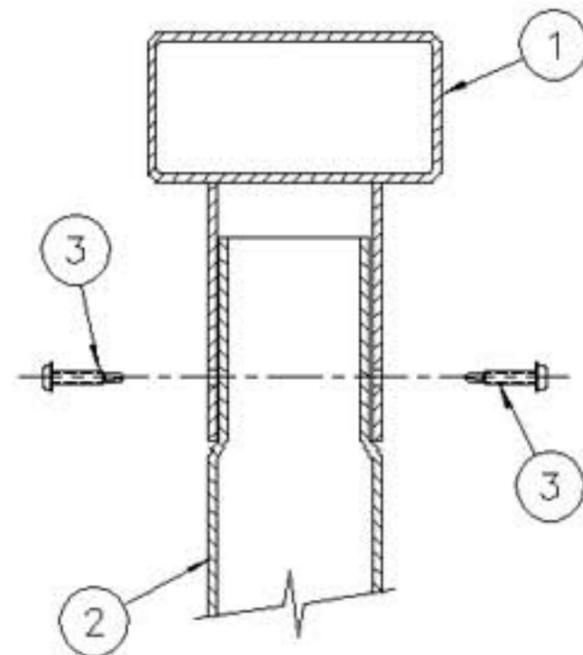
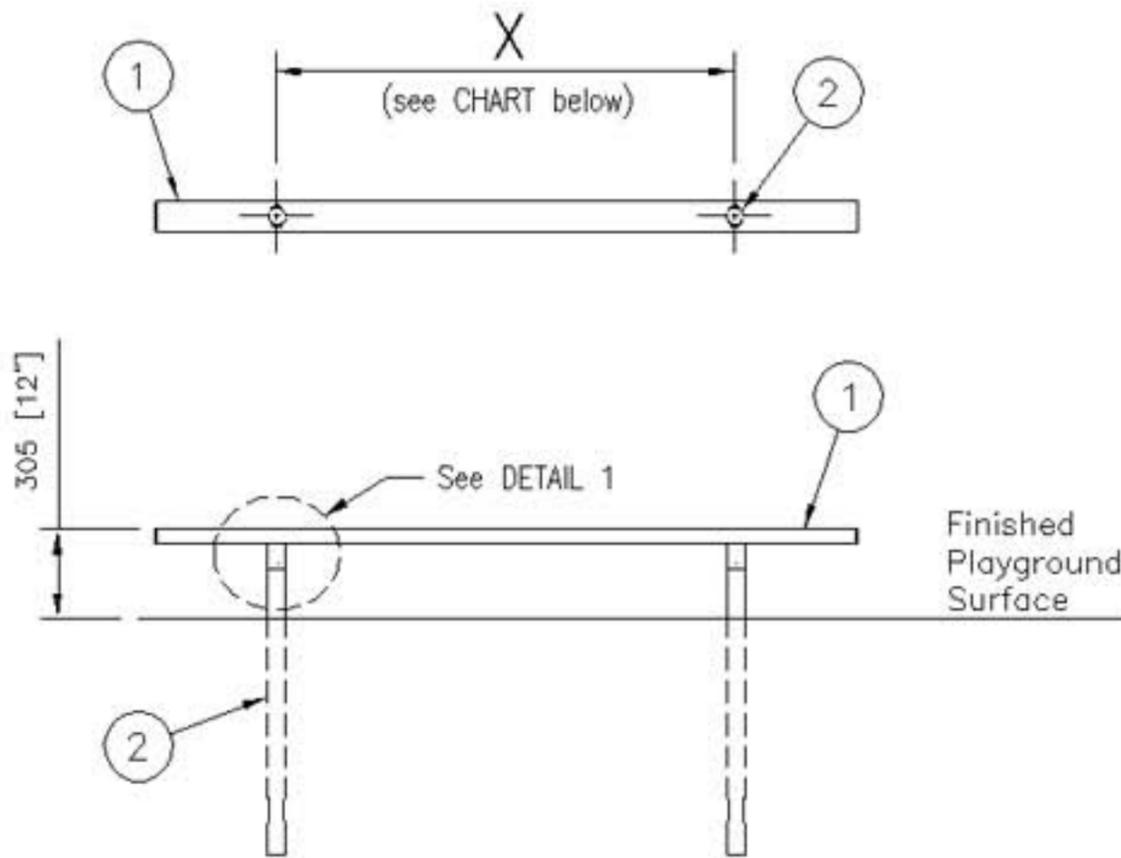
200162230

1500008B

Sheet 1 of 1

AUTHORIZED BY: 06FEB08

*Chris M. Henderson*



DETAIL 1  
Typ 2 Places

NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

KB STRAIGHT BALANCE BEAM 6' W/RND LEG  
200201198

KB STRAIGHT BALANCE BEAM 8' W/RND LEG  
200201034

Item	Code	Description	Qty.
1A	-	BEAM BALANCE 6' RND. LEG	1
1B	-	BEAM BALANCE 8' RND. LEG	1
2	-	LEG RND. F/CURVED BALANCE BEAM	2

HDWR BAG F/STRT BAL.BEAM W/RND.LEGS KB  
200162231

Item	Code	Description	Qty.
3	200038509	SCREW DRILL HEX HEAD #10 X 1.81 X 25mm	4

**Application**

- Recommended for 2 - 12 year age groups only
- Minimum distance required from structure is 1830mm [72"]
- If installing an inground model, a standard post footing depth will be required

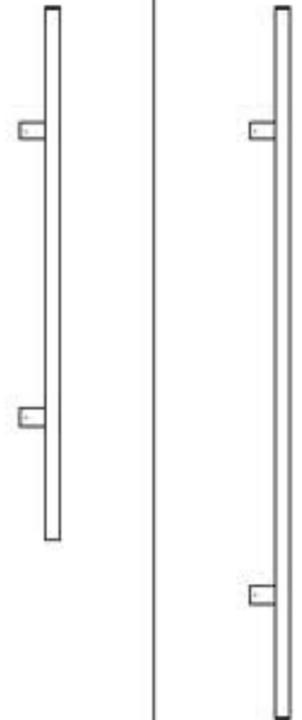
**Installation Instructions**

1. Prepare footings.
2. Attach legs to the underside of beam (refer to DETAIL 1).
3. Place legs into footing holes. Block the beam up to recommended height.
4. Plumb and level beam.
5. Tighten all hardware.
6. Complete footings and install resilient surfacing.

**Footing Dimension Chart**

Balance Beam Length	X
1830mm [6']	978mm [38-1/2"]
2440mm [8']	1588mm [62-1/2"]

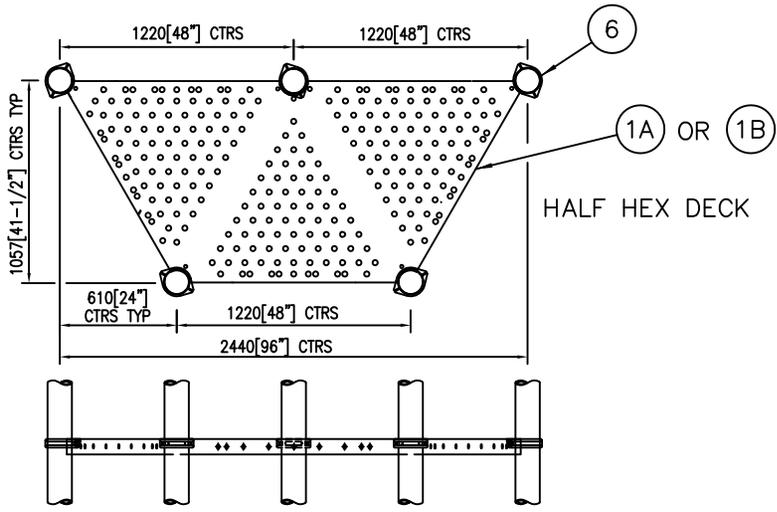
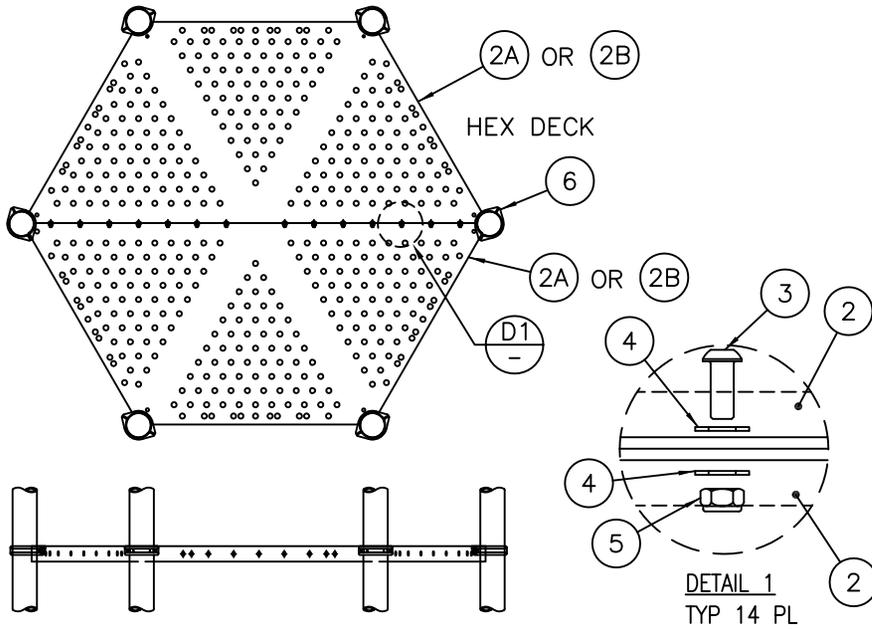
1A 1B



2



AUTHORIZED BY: 08JUN17  
Tracy Archer



**NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS**

### KB DECK HALF HEX LARGE HOLE 11GA 200202496

Item	Code	Description	Qty.
1A	910486P	DECK HALF HEX F/POST 11GA	1
6	909383P	* DECK CLAMP - F/5" TUBE	5

### KB DECK HEX LARGE HOLE 11GA 200202492

Item	Code	Description	Qty.
2A	910480P	HALF OF WHOLE DECK W/27 MM HOLES	2
6	909383P	* DECK CLAMP - F/5" TUBE	6

### KB DECK HALF HEX SMALL HOLE 11GA 200202500

Item	Code	Description	Qty.
1B	910489P	DECK HALF HEX F/POST (TDV) SMALL HOLE	1
6	909383P	* DECK CLAMP - F/5" TUBE	5

### KB DECK HEX SMALL HOLE 11GA 200202497

Item	Code	Description	Qty.
2B	910481P	DECK 1/2 WHOLE HEX KB (TDV) SMALL HOLE	2
6	909383P	* DECK CLAMP - F/5" TUBE	6

### HRDW PKG LVL DK NSTLLTN S1/1 HW7690-1

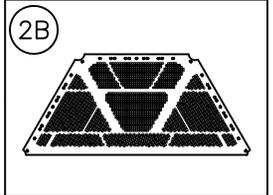
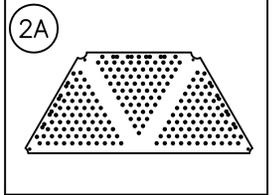
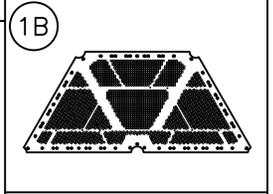
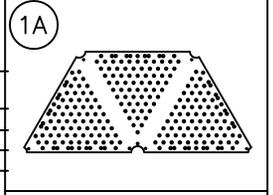
Item	Code	Description	Qty.
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	8
4	200002079	WASHER FLAT M11 X 12 X 1.6MM	16
5	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	8

\* SEE DECK CLAMP DETAILS IN THE FRONT OF THE MANUAL.

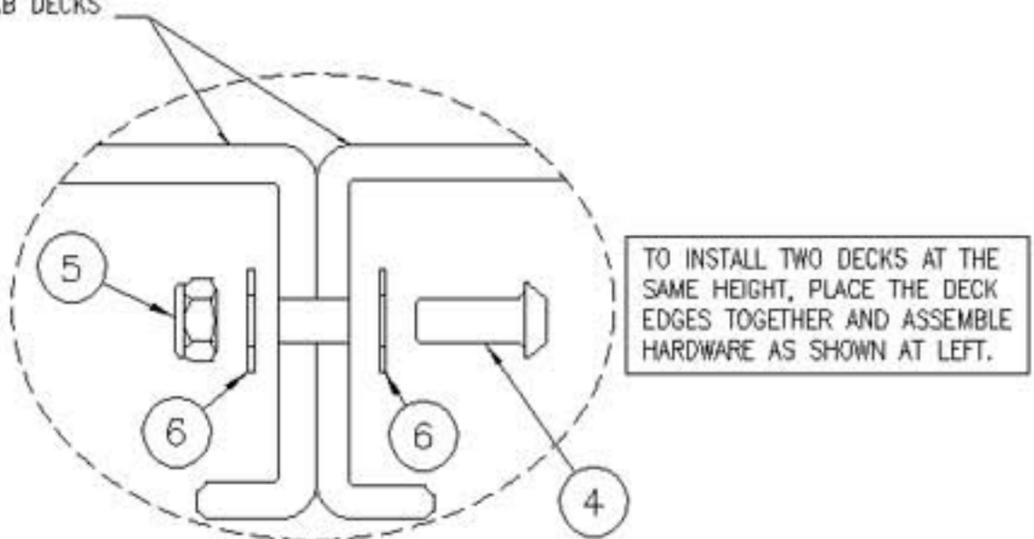
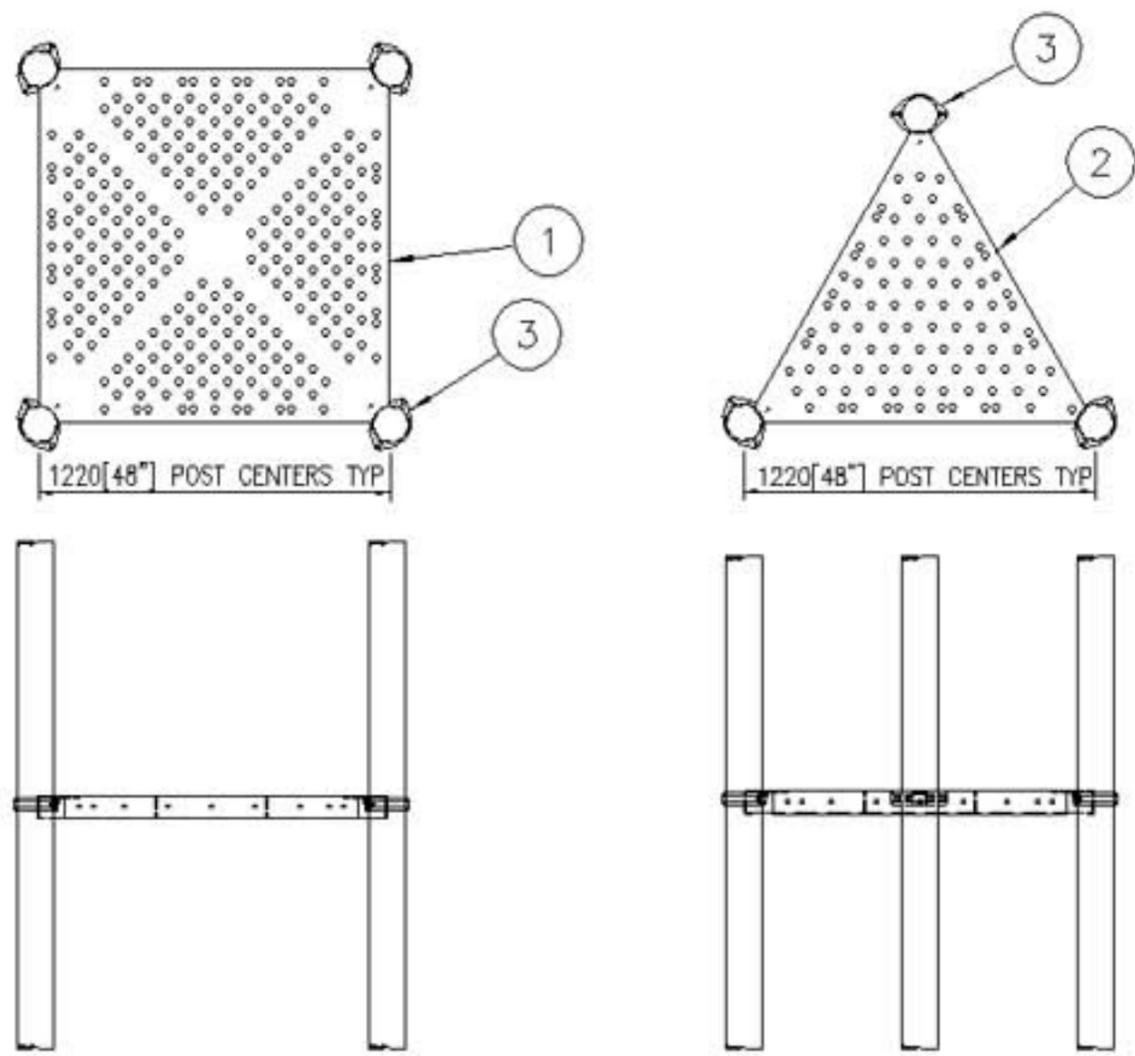
#### Installation Instructions

1. Position posts to proper locations or footing holes as specified by the playground layout drawing and the footing details in the front of this manual.
2. Measure and mark the height of each clamp on posts. The top of the clamp will be 13mm[1/2"] below the deck. **IMPORTANT:** When marking posts, allow for finished grade and resilient surfacing as specified in the footing details.
3. Fasten \*clamps to posts. (SEE DECK CLAMP DETAILS IN THE FRONT OF THE KB MANUAL.) Do NOT drill for hammer drive pins yet.
4. Attach deck to clamps. Assemble the two hex deck pieces mechanically as shown. Re-check levelness and deck height.
5. Tighten all hardware and drive pin clamps to posts. When installing a Whole Hex Deck or installing additional decks at the same height, always install the first deck by attaching it to posts with deck clamps in all locations. Additional decks cannot share clamps with the first deck and will have to be assembled together mechanically as shown in detail. In all other locations where clamp space is available on the post, attach the deck with clamps.
6. Plumb and level decks and posts. If surface mounting, anchor bolt posts to concrete. If installing inground, make sure posts are at the proper height and complete footings.
7. After concrete has cured, backfill with earth and install ground cover.

**Application**  
AGE GROUPS (2-12 YEAR OLDS)  
- Decks are considered platform events and can be used by all ages if installed at an appropriate height for the particular age group.  
- A deck above 508mm [20"] must have an enclosure for ages 2-5 max. height difference between adjacent decks is 305mm[12"] without alternative means of access.  
- A deck above 762mm[30"] must have an enclosure for ages 5 to 12 max. height difference between adjacent decks is 406mm[16"] without alternative means of access.



AUTHORIZED BY:  
*Eric Clinton* 18MAR11



### 200202483 SQUARE DECK 11 GA. (SMALL HOLE DECK 200202503)

Item	Code	Description	Qty.
1A	-	DECK SQUARE KB W/27 MM HOLES	1
1B	-	DECK SQUARE KB SMALL HOLE	1
3	-	* KB DECK CLAMP	4

### 200202485 TRI-DECK 11 GA. (SMALL HOLE DECK 200202504)

Item	Code	Description	Qty.
2A	-	DECK SQUARE KB W/27 MM HOLES	1
2B	-	DECK TRIANGLE KB SMALL HOLE	1
3	-	* KB DECK CLAMP	3

### ADD-ON DECK HARDWARE BAG 200007704

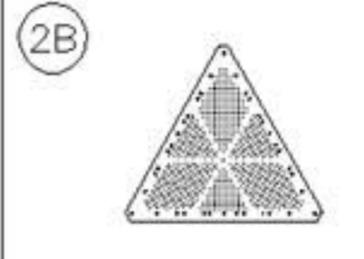
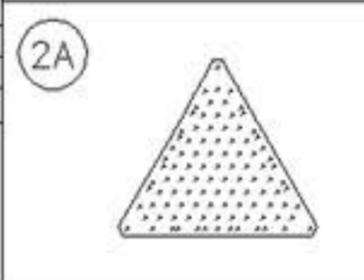
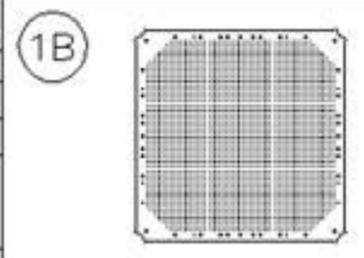
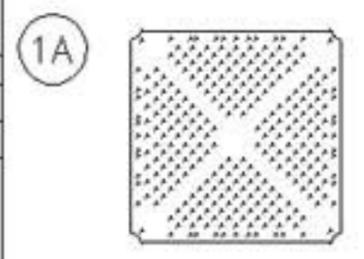
Item	Code	Description	Qty.
4	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	7
5	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	7
6	200002079	WASHER FLAT M11 X 12 X 1.6MM	14

**Application**  
AGE GROUPS (2-12 YEAR OLDS)

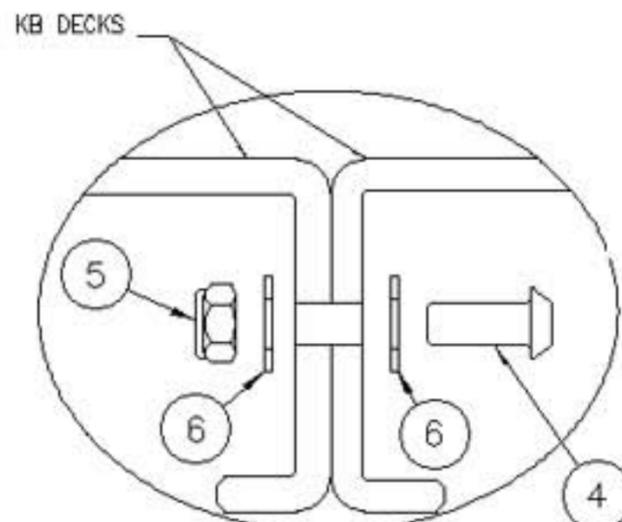
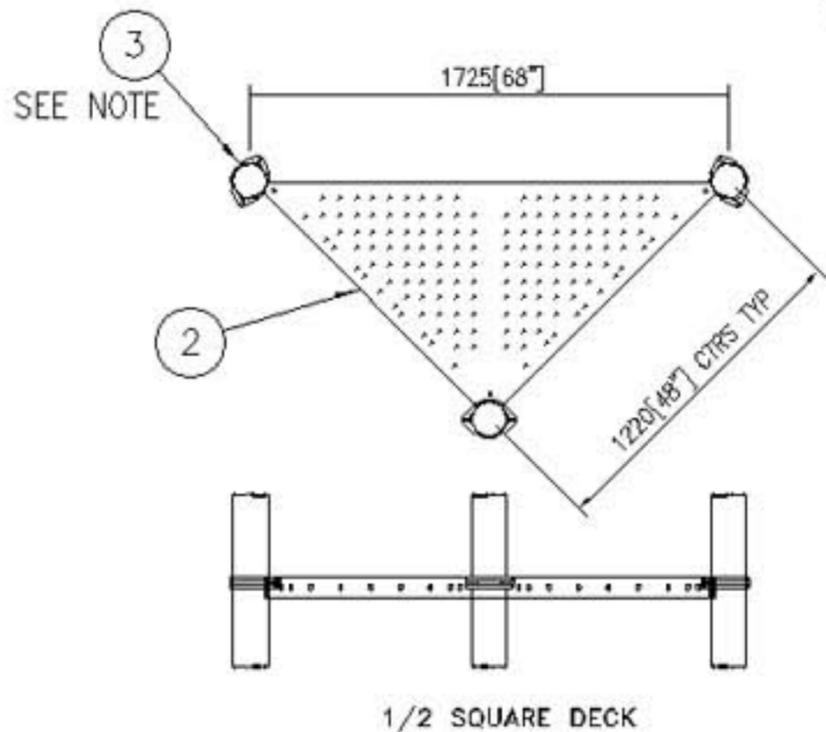
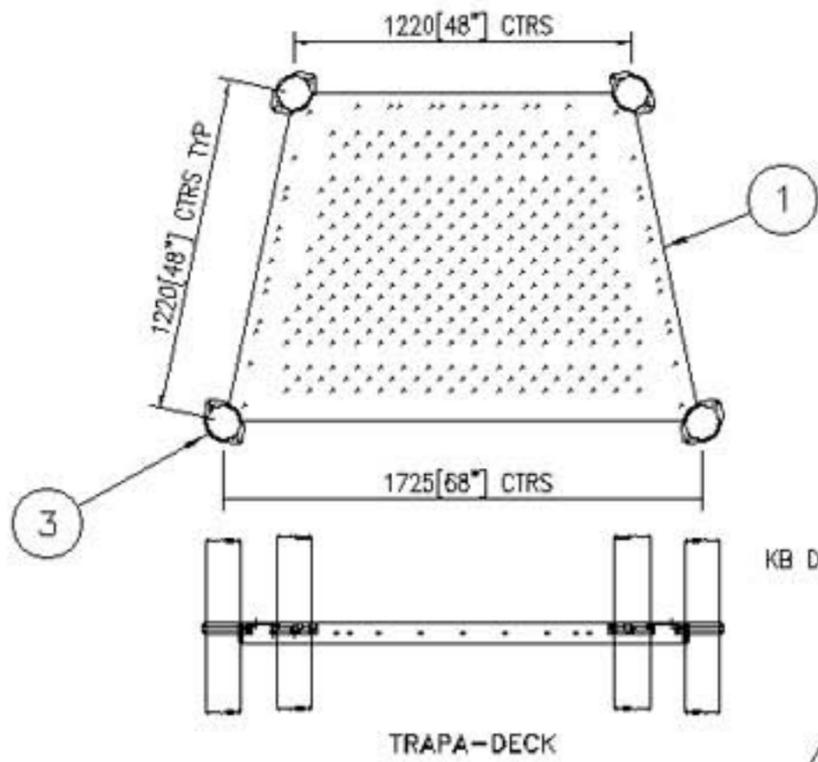
- Decks are considered platform events and can be used by all ages if installed at an appropriate height for the particular age group.
- A deck above 508mm [20"] must have an enclosure for ages 2-5 max. height difference between adjacent decks is 305mm[12"] without alternative means of access.
- A deck above 762mm[30"] must have an enclosure for ages 5 to 12 max. height difference between adjacent decks is 406mm[16"] without alternative means of access.

### Installation Instructions

1. Position posts to proper locations or footing holes as specified by the playground layout drawing and the footing details in the front of this manual.
2. Measure and mark the height of each clamp on posts. The top of the clamp will be 13mm[1/2"] below the deck. **IMPORTANT:** When marking posts, allow for finished grade and resilient surfacing as specified in the footing details.
3. Fasten \*clamps to posts. (SEE DECK CLAMP DETAILS IN THE FRONT OF THE KB MANUAL.) Do NOT drill for hammer drive pins yet.
4. Attach deck to clamps. Re-check levelness and deck height.
5. Tighten all hardware and drive pin clamps to posts. If installing additional decks at the same height, always install the first deck by attaching it to posts with deck clamps in all locations. Additional decks cannot share clamps with the first deck and will have to be assembled together mechanically as shown in detail. In all other locations where clamp space is available on the post, attach the deck with clamps.
6. Plumb and level decks and posts. If surface mounting, anchor bolt posts to concrete. If installing inground, make sure posts are at the proper height and complete footings.
7. After concrete has cured, backfill with earth and install ground cover.



AUTHORIZED BY:  
*Eric Clinton* J8MAR11



TO INSTALL TWO DECKS AT THE SAME HEIGHT, PLACE THE DECK EDGES TOGETHER AND ASSEMBLE HARDWARE AS SHOWN ABOVE.

**NOTE**  
IF INSTALLING THE 1/2 SQUARE DECK ALONE, USE 3 CLAMPS AS SHOWN. IF CREATING A REST DECK, THESE CLAMPS WILL NOT BE INSTALLED. MECHANICALLY FASTEN THE LONG DECK EDGES TOGETHER AS SHOWN.

[NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS]

**TRAPA-DECK 11 GA. 200202570**  
**DECK TRAPAZOID KB (SMALL HOLES) 200202571**

Item	Code	Description	Qty.
1A	-	DECK-TRAPA KB W/27 MM HOLES	1
1B	-	DECK TRAPA F/KB SMALL HOLE	1
3	-	* KB DECK CLAMP	4

**1/2 SQUARE DECK 11 GA.**  
**200202488 (SMALL HOLE DECK 200202501)**

Item	Code	Description	Qty.
2A	-	DECK 1/2 SQUARE KB W/27 MM HOLES	1
2B	-	DECK 1/2 SQUARE KB SMALL HOLE	1
3	-	* KB DECK CLAMP	3

**REST DECK 11 GA. 200202547**  
**DECK REST KB (SMALL HOLE) 200202502**

Item	Code	Description	Qty.
1A	-	DECK-TRAPA KB W/27 MM HOLES	1
1B	-	DECK TRAPA F/KB SMALL HOLE	1
2A	-	DECK 1/2 SQUARE KB W/27 MM HOLES	1
2B	-	DECK 1/2 SQUARE KB SMALL HOLE	1
3	-	* KB DECK CLAMP	7
4	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	9
5	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	9
6	200002079	WASHER FLAT M11 23 X 12 X 1.6	18

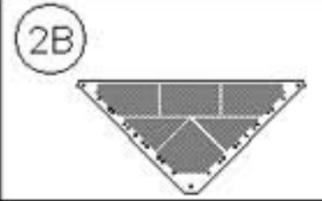
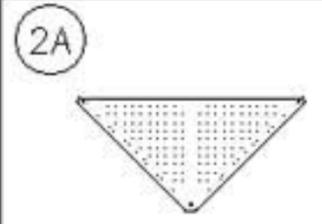
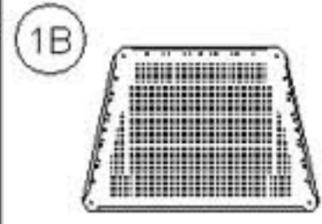
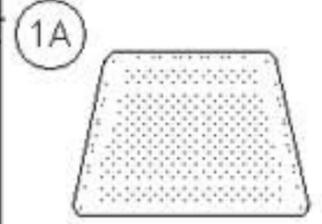
**LONG DECK EDGE HARDWARE BAG**  
**200007693**

Item	Code	Description	Qty.
4	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	9
5	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	9
6	200002079	WASHER FLAT M11 23 X 12 X 1.6	18

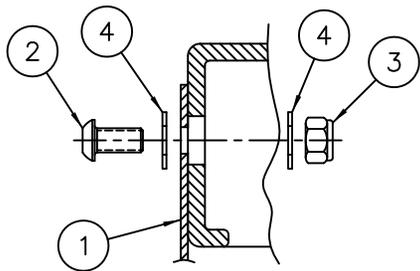
**Installation Instructions**

1. Position posts to proper locations or footing holes as specified by the playground layout drawing and the footing details in the front of this manual.
2. Measure and mark the height of each clamp on posts. The top of the clamp will be 13mm[1/2"] below the deck. **IMPORTANT:** When marking posts, allow for finished grade and resilient surfacing as specified in the footing details.
3. Fasten \*clamps to posts. (SEE DECK CLAMP DETAILS IN THE FRONT OF THE KB MANUAL.) Do NOT drill for hammer drive pins yet.
4. Attach deck to clamps. If creating a Rest Deck, assemble the two decks mechanically as shown. Re-check levelness and deck height.
5. Tighten all hardware and drive pin clamps to posts. When installing a Rest Deck or attaching additional decks at the same height, always install the first deck by attaching it to posts with deck clamps in all locations. Additional decks cannot share clamps with the first deck and will have to be assembled together mechanically as shown in detail. In all other locations where clamp space is available on the post, attach the deck with clamps.
6. Plumb and level decks and posts. If surface mounting, anchor bolt posts to concrete. If installing inground, make sure posts are at the proper height and complete footings.
7. After concrete has cured, backfill with earth and install ground cover.

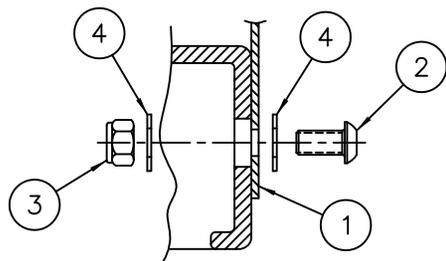
**Application**  
AGE GROUPS (2-12 YEAR OLDS)  
- Decks are considered platform events and can be used by all ages if installed at an appropriate height for the particular age group.  
- A deck above 508mm [20"] must have an enclosure for ages 2-5 max. height difference between adjacent decks is 305mm [12"] without alternative means of access.  
- A deck above 762mm [30"] must have an enclosure for ages 5 to 12 max. height difference between adjacent decks is 406mm [16"] without alternative means of access.



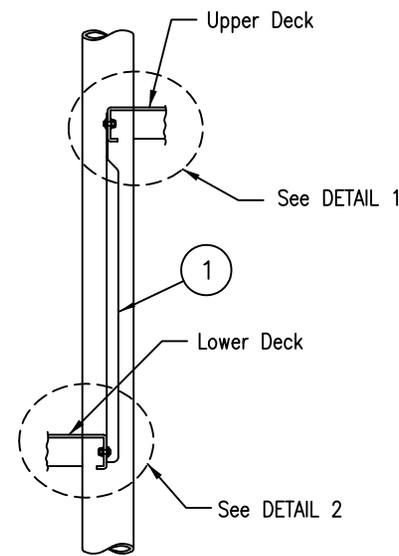
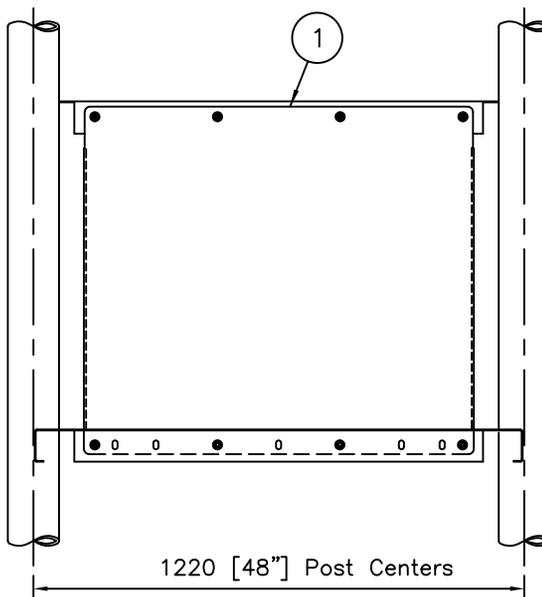
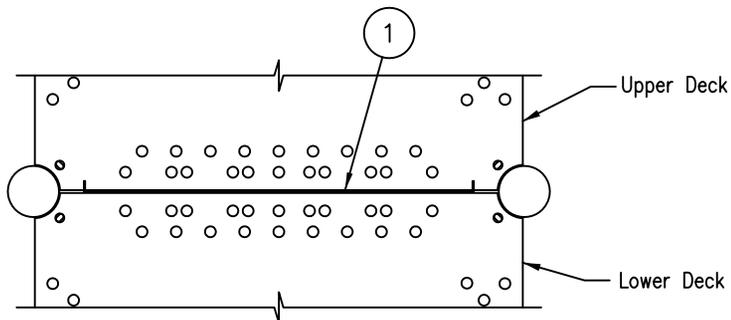
AUTHORIZED BY: 23FEB18  
Tracy Archer



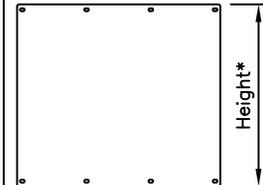
DETAIL 1  
Type 4 Places



DETAIL 2  
Type 4 Places

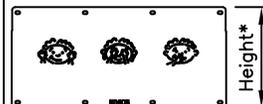


1A - 1F



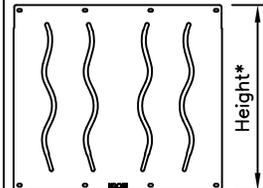
\*Height will vary according to distance between decks

1G



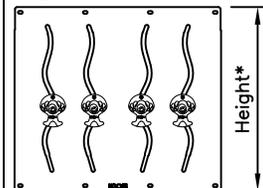
\*Height will vary according to distance between decks

1H

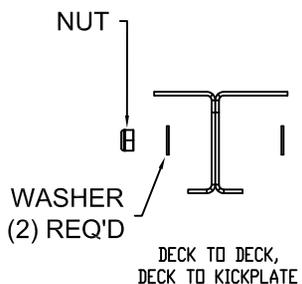


\*Height will vary according to distance between decks

1J



\*Height will vary according to distance between decks



DO NOT OVERTIGHTEN BOLTS OR DAMAGE MAY OCCUR TO THE PVC COATING ON COMPONENTS. BOLTS HAVE A THREAD LOCK PATCH. IT IS NOT NECESSARY THAT THE BOLT EXTEND INTO THE NYLON PORTION OF THE NYLOCK NUT.



# 205/305/405/610/710/815 DECK TO DECK PLATES

KB200001D

Sheet 2 of 2

AUTHORIZED BY: 23FEB18  
Tracy Archer

205mm [8"] DK/DK PLATE	100001134		
305mm [12"] DK/DK PLATE	100001137		
405mm [16"] DK/DK PLATE	100001139		
610mm [24"] DK/DK PLATE	100001142		
710mm [28"] DK/DK PLATE	100001144		
815mm [32"] DK/DK PLATE	100001148		
205mm [8"] DK/DK PLATE W/FACES	200200187		
305mm [12"] DK/DK PLATE W/FACES	200200188		
405mm [16"] DK/DK PLATE W/FACES	200200189		
610mm [24"] DK/DK PLATE W/4 SLOTS	200200190		
710mm [28"] DK/DK PLATE W/4 SLOTS	200200191		
815mm [32"] DK/DK PLATE W/4 SLOTS	200200192		
610mm [24"] DK/DK PLATE W/PARA. GUY	200200218		
710mm [28"] DK/DK PLATE W/PARA. GUY	200200219		
815mm [32"] DK/DK PLATE W/PARA. GUY	200200220		
<b>Item</b>	<b>Code</b>	<b>Description</b>	<b>Qty.</b>
1A	200000047	PLATE DK/DK 205MM/8" KB BRN	1
1B	200000049	PLATE DK/DK 305MM/12" KB BRN	
1C	200000051	PLATE DK/DK 405MM/16" KB BRN	
1D	200000053	PLATE DK/DK 610MM/24" KB BRN	
1E	200000056	PLATE DK/DK 710MM/28" KB BRN	
1F	200000058	PLATE DK/DK 815MM/32" KB BRN	
1G	-	PLATE DK/DK W/FACES F/KB	
1H	-	PLATE DK/DK W/4 SLOTS F/KB	
1J	-	PLATE DK/DK W/PARACHUTE GUY F/KB	
<b>HDWR BAG F/KB STEEL KICK PLATES (MM)</b> <b>200007706</b>			
2	200002014	SCREW MACH BUTTON HEAD M10 X 1.50 X 20mm	8
3	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	8
4	200002079	WASHER FLAT M11 23 X 12 X 1.6mm	16

**Application**

- Must be used between all 203mm [8"] and 305mm [12"] increment decks.
- When the lower platform exceeds 706mm [30"] and the upper platform is 228mm [9"] higher, a deck to deck plate must be used for 2-5 year age group.
- When the lower platform exceeds 1220mm [48"] and the upper platform is 228mm [9"] higher, a deck to deck plate must be used for 5-12 year age group.

**Installation Instructions**

1. Install posts and decks. Make sure the decks are level and at the proper height.
2. Attach the top of the Deck to Deck Plate to the front of the upper deck. See DETAIL 1.
3. Attach the lower portion of the Deck to Deck Plate to the lower deck. See DETAIL 2.

AUTHORIZED BY: *Joe Mitchell* 03JUN08

**BRACKET DECK TO POST KB  
200006959**

Item	Code	Description	Qty.
1	200002884	BRACKET MOUNT BRN F/KB DECK-TO-POST	1
2	-	DECK CLAMP	2
4	200002100	WASHER FLAT M11 320D X 13ID X 2 MM S.S.	2

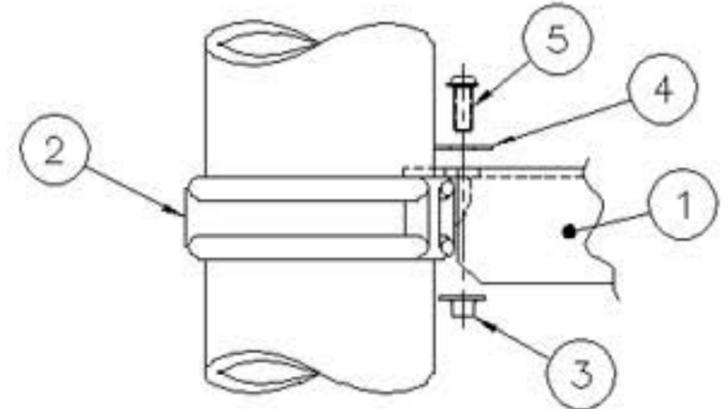
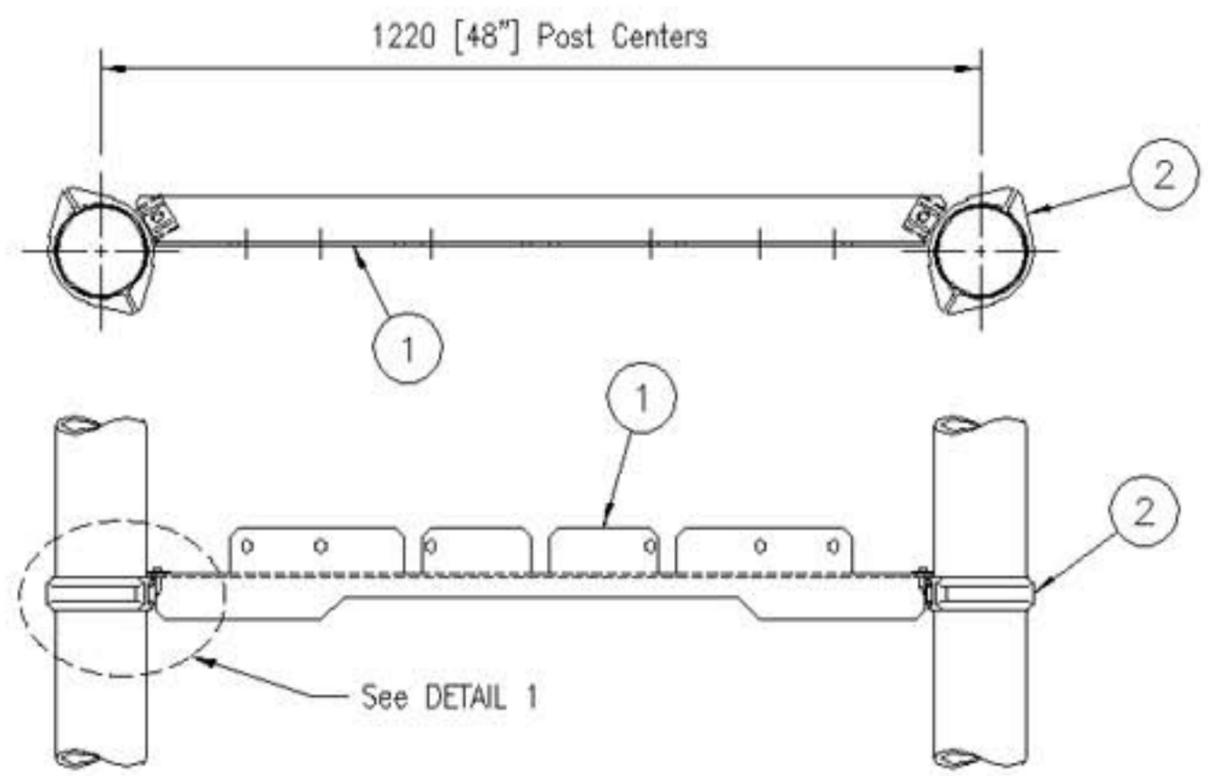
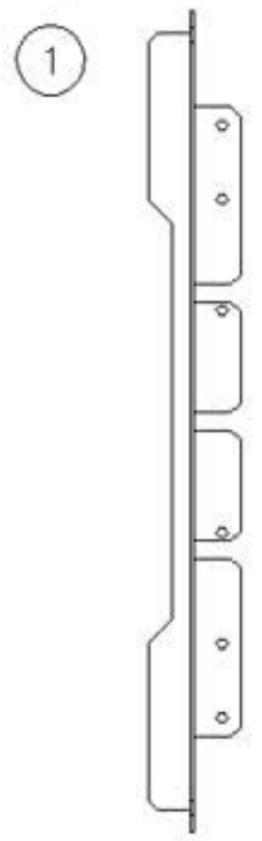
**HDWR BAG KB DECK-TO-POST MT BRKT  
200007697**

Item	Code	Description	Qty.
6	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	6
7	200002079	WASHER FLAT M11 23 X 12 X 1.6	12
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	6

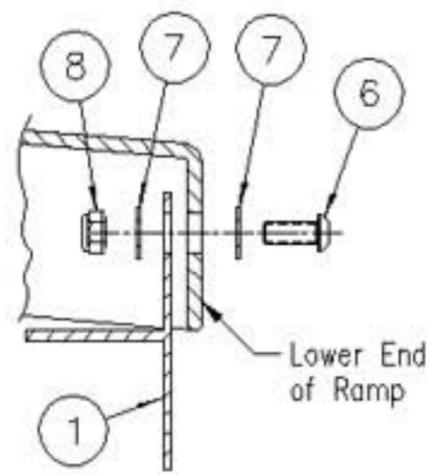
**Application**  
- Designed to install Ramps, multiple Ramps end to end, and to access the Spiral Slide from lower deck heights

**Installation Instructions**

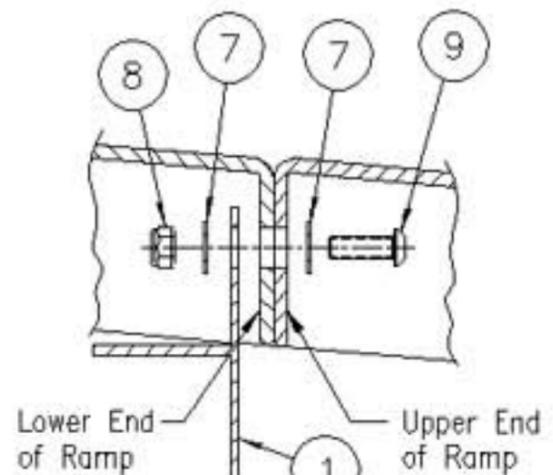
1. Prepare footings.
2. Install posts and loosely attach any adjoining structures.
3. Loosely attach deck clamps to posts (Refer to front of manual for clamp installation detail).
4. Attach mounting bracket to deck clamps (Refer to Detail 1). The hardware used in this view will be supplied with the deck clamp.
5. Position at the proper height, tighten all hardware and install clamp drive pins.
6. Lower the deck or ramp end(s) onto the mounting bracket and install hardware (Refer to Details 2, 3, and 4).
7. Complete footings and install resilient surfacing.



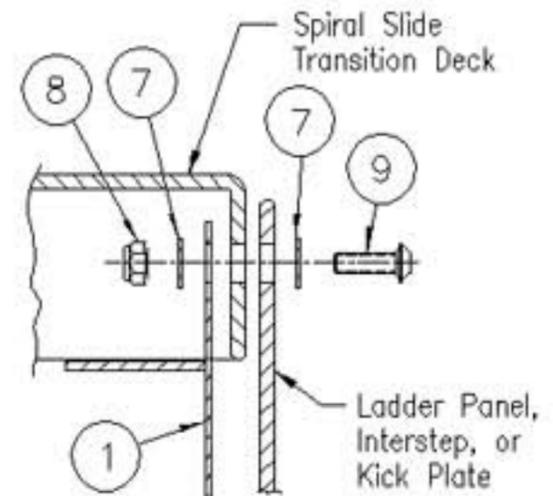
**DETAIL 1**  
Typ 2 Places



**DETAIL 2**  
(Single Ramp)  
Typ 6 Places



**DETAIL 3**  
(Ramp to Ramp)  
Typ 6 Places



**DETAIL 4**  
(Spiral Slide)  
Typ 4 Places

AUTHORIZED BY: D2JUN08  
*Joe Mitchell*

- CLIMBER LOOP 915 MM/36" KB  
200007000
- CLIMBER LOOP 1220 MM/48" KB  
200007001
- CLIMBER LOOP 1625 MM/64" KB  
200007002
- CLIMBER LOOP 1830 MM/72" KB  
200129609

Item	Code	Description	Qty.
1	-	LOOP CLIMBER	1
2	-	LOOP SAFETY F/KB LEFT (NEW)	1
3	-	LOOP SAFETY F/KB RIGHT (NEW)	1
4	-	KB WING CLAMP	2

### HDWR BAG F/KB FAN/LOOP CLIMBER 200112049

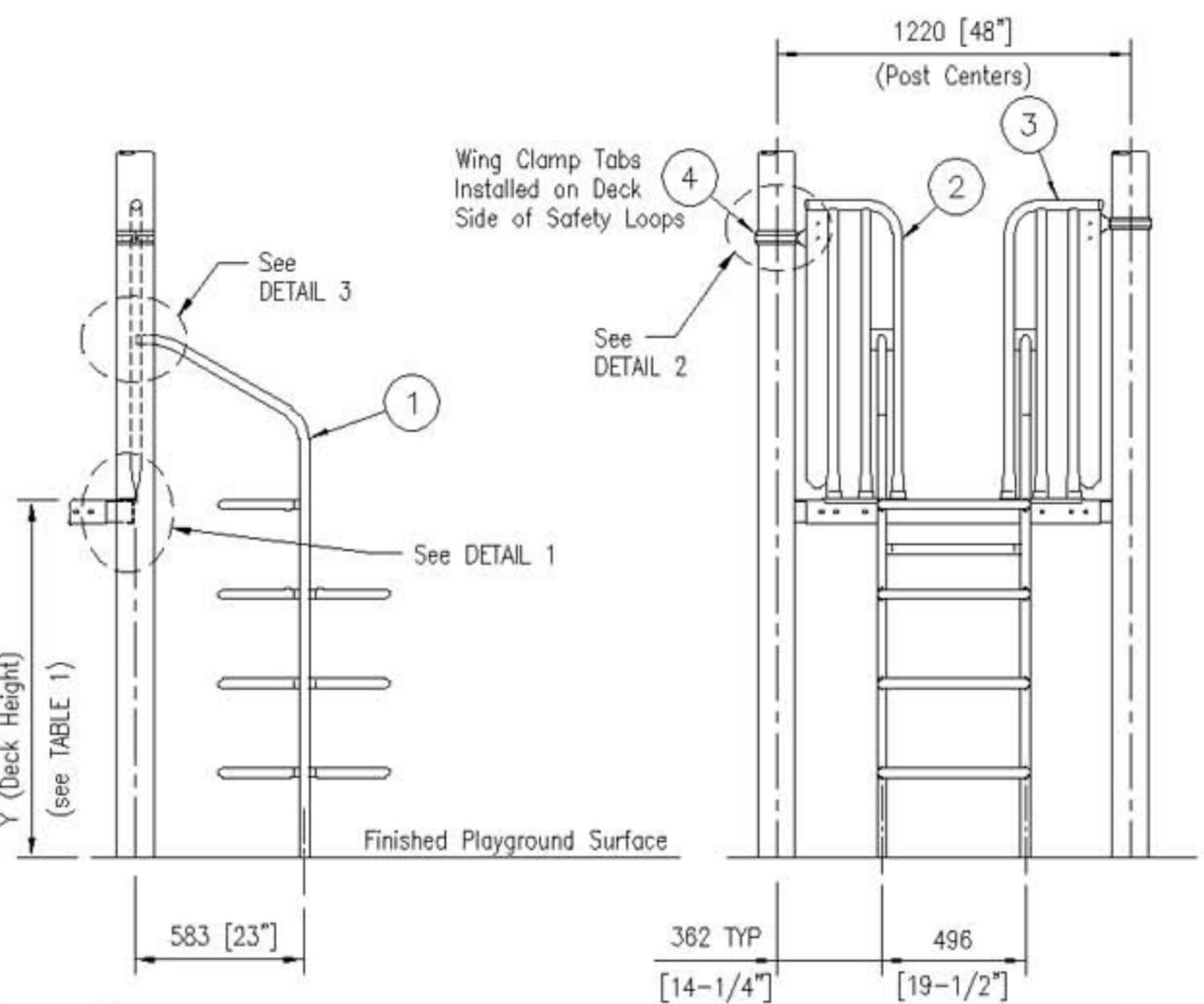
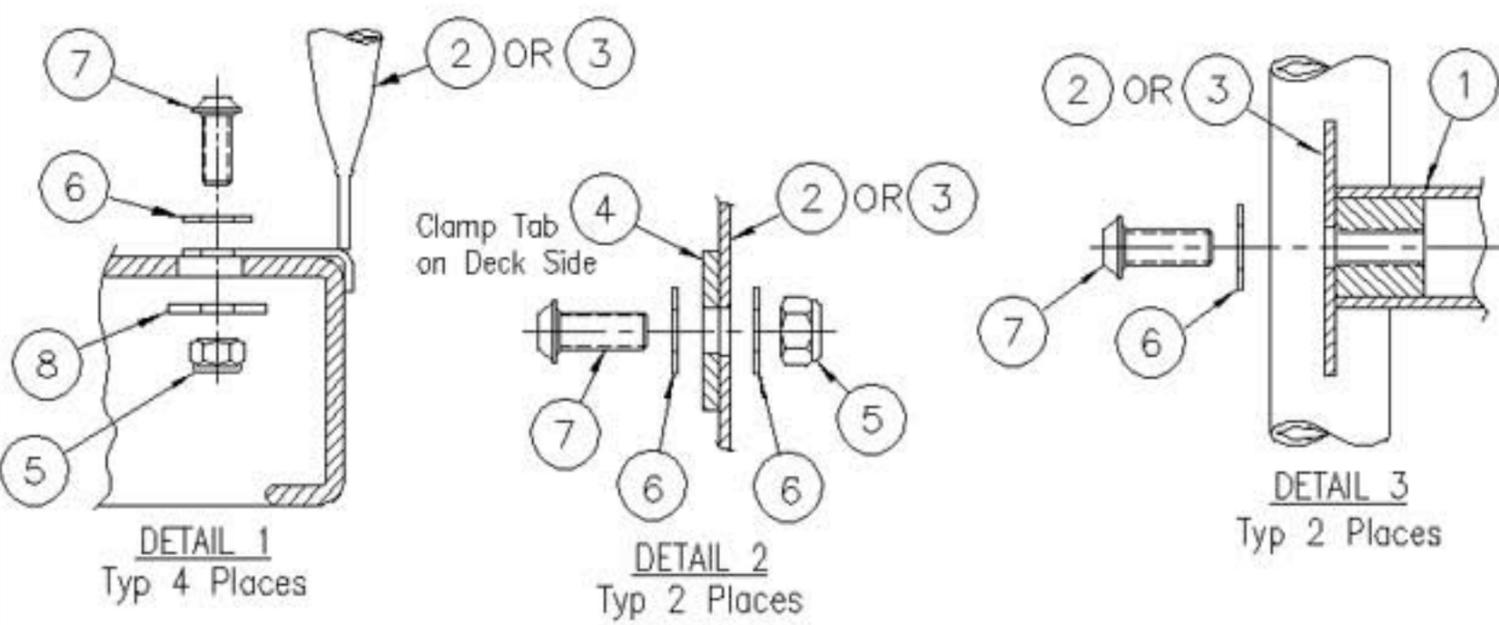
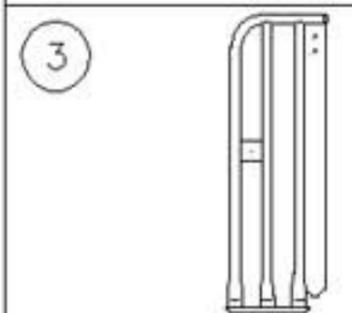
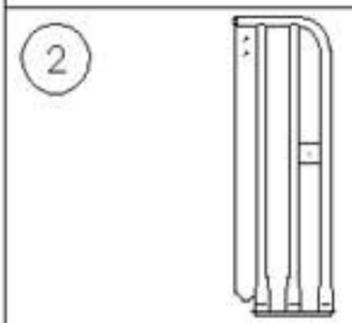
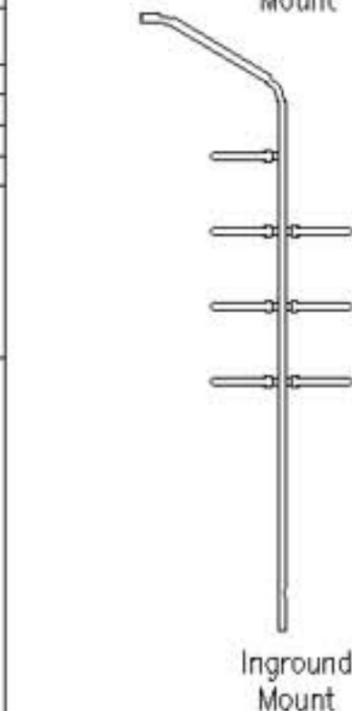
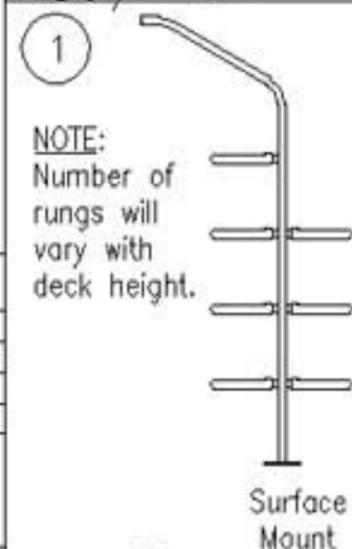
Item	Code	Description	Qty.
5	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	6
6	200002079	WASHER FLAT M11 23 X 12 X 1.6	10
7	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	8
8	200002096	WASHER FLAT M10 340D X 111D X 3 MM THK	4

#### Application

- Climbing event: cannot be used as sole access
- Inground versions may be used on non-specified deck heights. Consult your layout for details.

#### Installation Instructions

1. Prepare footings.
2. Attach the safety loops (Items 2&3) to the deck as shown in DETAIL 1.
3. Loosely attach wing clamps to the posts (refer to front of manual for clamp installation instruction).
4. Attach the safety loop plates to the wing clamp tabs as shown in DETAIL 2. Note high side/low side position of clamps. Wing clamp tabs are installed on deck side of safety loops.
5. Attach the top ends of the Loop Climber (Item 1) to the safety loops as shown in DETAIL 3.
6. Tighten all hardware and install clamp drive pins.
7. Complete footings and install resilient surfacing.

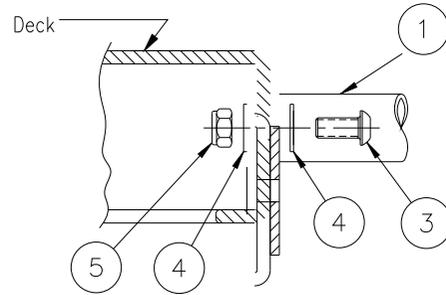


[NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS]

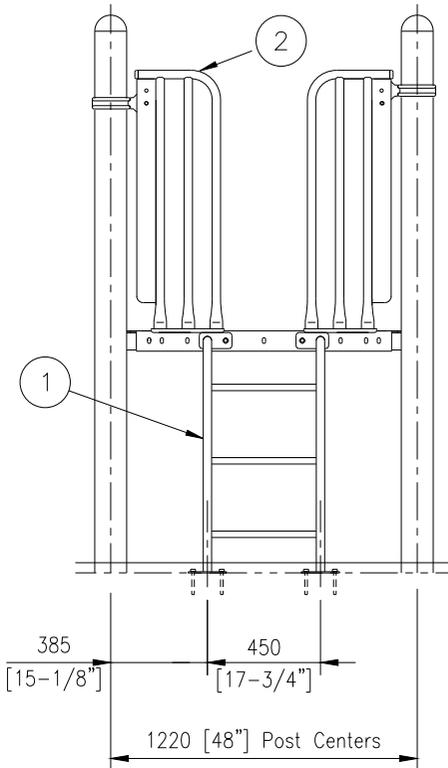
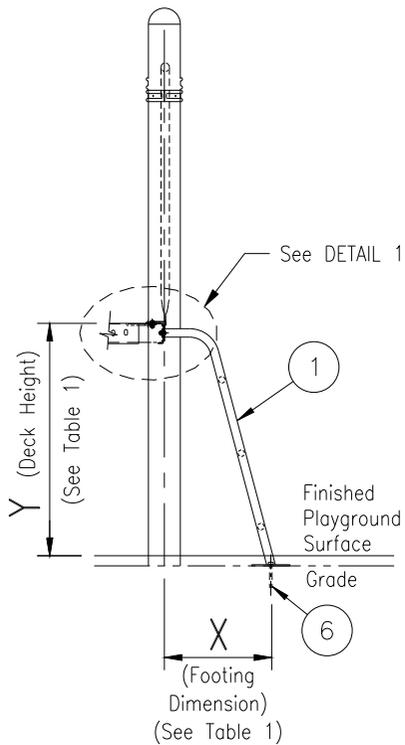
TABLE 1

Surface Mount Footing Dimensions

"Y"	"X"	"X"
Deck Height	40mm [1-1/2"] Ground Cover	305mm [12"] Ground Cover
610 [24"]	346 [13-5/8"]	417 [16-7/16"]
915 [36"]	427 [16-13/16"]	499 [19-5/8"]
1016 [40"]	454 [18"]	525 [20-5/8"]
1220 [48"]	509 [20"]	581 [22-7/8"]
1625 [64"]	618 [24-5/16"]	689 [27-1/8"]



DETAIL 1  
Typ 2 Places



**NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS**

**Installation Instructions**

1. Prepare footings.
2. Install loops. See Hand/Safety Loops Instruction for details.
3. Attach rung ladder to deck as shown in DETAIL 1.
4. Tighten all hardware and install clamp drive pins.
5. Complete footings and install resilient surfacing.

**Application**

- Cannot be used as sole access to equipment.

- LADDER RUNG 610 MM [24"] W/HAND LOOPS KB 200014917
- LADDER RUNG 915 MM [36"] W/HAND LOOPS KB 200014918
- LADDER RUNG 1016 MM [40"] W/HAND LOOPS KB 200201019
- LADDER RUNG 1220 MM [48"] W/HAND LOOPS KB 200014919
- LADDER RUNG 1625 MM [64"] W/HAND LOOPS KB 200014950

Item	Code	Description	Qty.
1	-	RUNG LADDER	1
2	-	HANDHOLD LOOP ASSY F/KB W/4 RAIL CLAMPS	1
6	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100MM	4

**HDWR BAG F/KB RUNG LADDERS 200007799**

Item	Code	Description	Qty.
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	2
4	200002079	WASHER FLAT M11 23 X 12 X 1.6	4
5	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	2

- LADDER RUNG 610 MM [24"] W/SAFETY LOOPS KB 200014954
- LADDER RUNG 915 MM [36"] W/SAFETY LOOPS KB 200014951
- LADDER RUNG 1016 MM [40"] W/SAFETY LOOPS KB 200201020
- LADDER RUNG 1220 MM [48"] W/SAFETY LOOPS KB 200014952
- LADDER RUNG 1625 MM [64"] W/SAFETY LOOPS KB 200014953

Item	Code	Description	Qty.
1	-	RUNG LADDER	1
2	-	SAFETY LOOP ASSY F/KB W/2 WING CLAMPS	1
6	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100MM	4

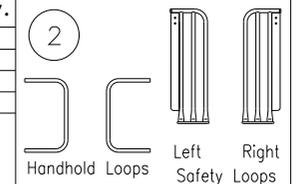
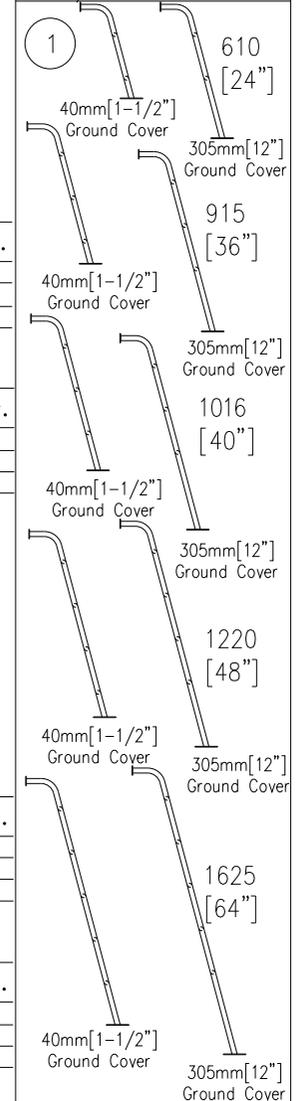
**HDWR BAG F/KB ARCH SAFETY RAIL/MESH PNL 200007799**

Item	Code	Description	Qty.
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	2
4	200002079	WASHER FLAT M11 23 X 12 X 1.6	4
5	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	2

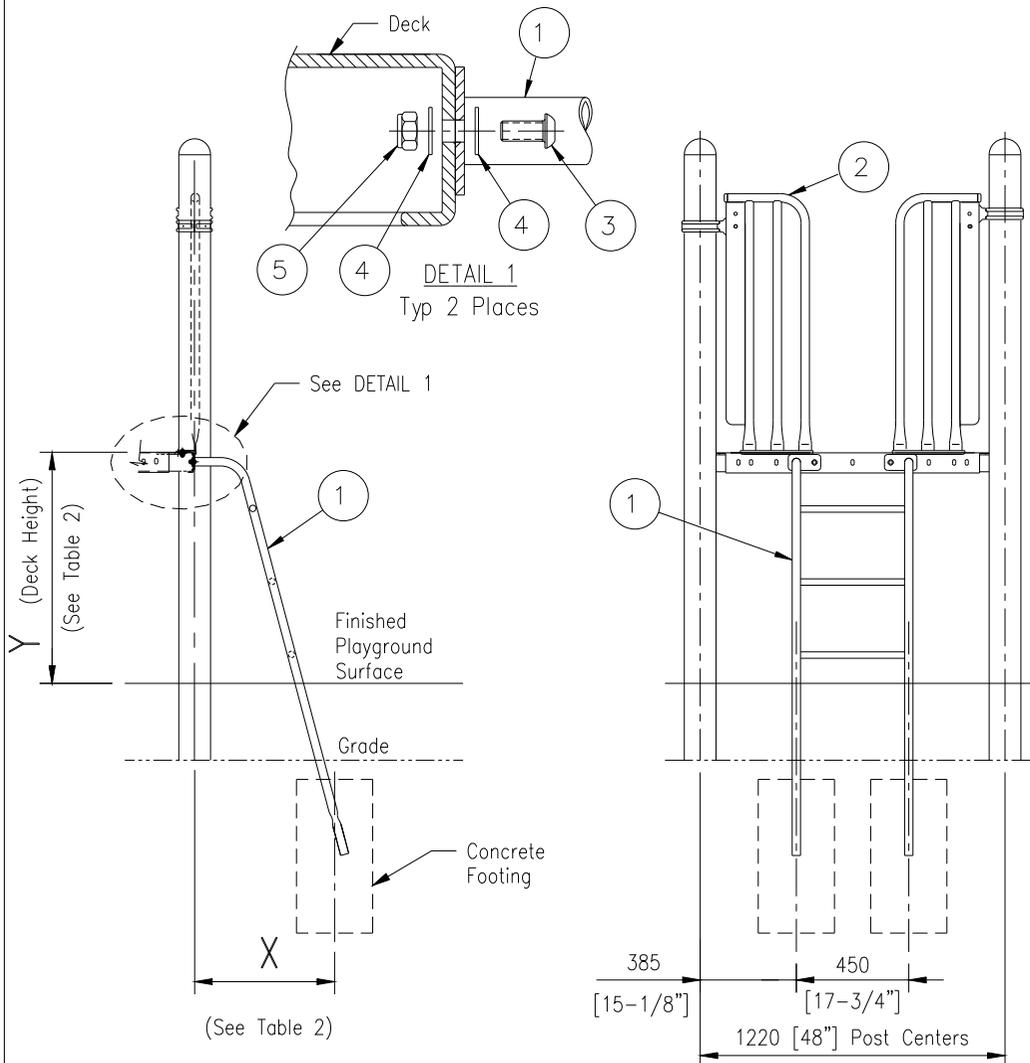
**HDWR BAG F/KB ARCH SAFETY RAIL/MESH PNL 200007712**

Item	Code	Description	Qty.
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	6
4	200002079	WASHER FLAT M11 23 X 12 X 1.6	8
5	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	6
7	200002096	WASHER FLAT M10 34 OD X 11 ID X 3 MM THK	4

AUTHORIZED BY: 04JUN08  
*Joe Fitchett*



AUTHORIZED BY: 05JUN08  
*Joe Pritchett*



**NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS**

TABLE 2

Inground Mount Footing Dimensions	
"Y" Deck Height	"X" 305mm [12"] Ground Cover
610 [24"]	478 [18-13/16"]
915 [36"]	559 [22"]
1016 [40"]	573 [22-1/2"]
1220 [48"]	641 [25-1/4"]
1625 [64"]	750 [29-1/2"]

**Application**  
- Cannot be used as sole access to equipment.

**Installation Instructions**

1. Prepare footings.
2. Install loops. See Hand/Safety Loops Instruction for details.
3. Attach rung ladder to deck as shown in DETAIL 1.
4. Tighten all hardware and install clamp drive pins.
5. Complete footings and install resilient surfacing.

- LADDER RUNG 610 MM [24"] W/HAND LOOPS KB 200014917
- LADDER RUNG 915 MM [36"] W/HAND LOOPS KB 200014918
- LADDER RUNG 1016 MM [40"] W/HAND LOOPS KB 200201019
- LADDER RUNG 1220 MM [48"] W/HAND LOOPS KB 200014919
- LADDER RUNG 1625 MM [64"] W/HAND LOOPS KB 200014950

Item	Code	Description	Qty.
1	-	RUNG LADDER	1
2	-	HANDHOLD LOOP ASSY F/KB W/4 RAIL CLAMPS	1
6	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100MM	4

**HWDR BAG F/KB RUNG LADDERS 200007799**

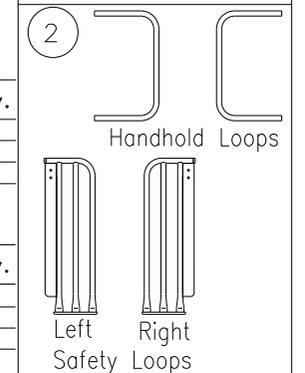
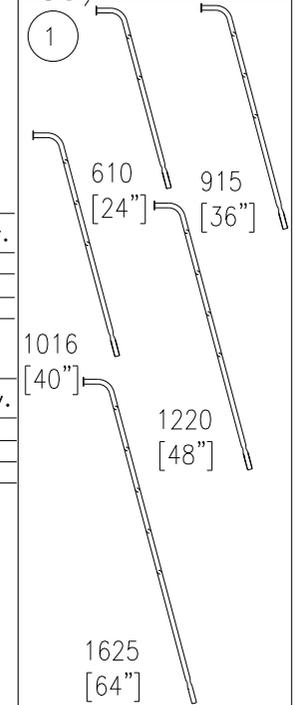
Item	Code	Description	Qty.
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	2
4	200002079	WASHER FLAT M11 23 X 12 X 1.6	4
5	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	2

- LADDER RUNG 610 MM [24"] W/SAFETY LOOPS KB 200014954
- LADDER RUNG 915 MM [36"] W/SAFETY LOOPS KB 200014951
- LADDER RUNG 1016 MM [40"] W/SAFETY LOOPS KB 200201020
- LADDER RUNG 1220 MM [48"] W/SAFETY LOOPS KB 200014952
- LADDER RUNG 1625 MM [64"] W/SAFETY LOOPS KB 200014953

Item	Code	Description	Qty.
1	-	RUNG LADDER	1
2	-	SAFETY LOOP ASSY F/KB W/2 WING CLAMPS	1
6	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100MM	4

**HWDR BAG F/KB ARCH SAFETY RAIL/MESH PNL 200007712**

Item	Code	Description	Qty.
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	6
4	200002079	WASHER FLAT M11 23 X 12 X 1.6	8
5	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	6
7	200002096	WASHER FLAT M10 34 OD X 11 ID X 3 MM THK	4





BEFORE INSTALLING LITTLE TIKES COMMERCIAL PRODUCT, "PLEASE READ INSTRUCTIONS THOROUGHLY"

*SITE REQUIREMENTS:*

This playevent is designed to suit a level site. Should there be any slopes on the site, care should be taken to accommodate the entry and exit points and to maintain the correct heights.

The site must be checked for adverse or unusual conditions. i.e.

- 1) Exposed, cracked or loose concrete footings.
- 2) Worn, scattered or compressed surface material.
- 3) Exposed roots, rocks or other environmental obstacles that form potential trip hazards.
- 4) Broken glass, refuse, or foreign objects around and on play equipment.
- 5) Poor drainage areas.
- 6) All sites especially those close to existing buildings must be checked for electrical or gas lines and drainage before digging.

*MAINTENANCE:*

As the owner, it is most important that you are aware of your responsibility for the safe use of your new play equipment. It is necessary to install equipment correctly according to the installation instructions provided and inspect the equipment regularly at intervals specified within the "Maintenance Manual," located in your maintenance kit. During inspection, if any part is found to be damaged or excessively worn, equipment should immediately be put out of service while the part is replaced. Lack of "maintenance" will result in premature wear, reduced life expectancy and possible failure.

All Little Tikes Commercial Play Systems playevents have been designed and engineered to meet all applicable safety guidelines, but if installed improperly, problems may occur such as: protruding hardware, entrapment gaps between 89mm [3.5"] to 229mm [9"], or string entanglements. Any accessible bolt ends that protrude beyond the face of the nut by more than two threads should be trimmed and peened smooth by the installer. Once your installation is complete, always inspect your work. Installation must be done to the manufacturer's assembly manual and applicable safety guidelines and/or standards.

*SAFETY AREAS:*

The area immediately surrounding and above the play structure must be free of obstructions such as: buildings, trees, other play equipment, etc., and must be kept clear for entries, exits, traffic and falls. Make sure your site has the required surfacing and fall area designated on your Playground Layout Drawings.

*INSTALLATION MANUAL:*

We have tried to make this installation manual as comprehensive and factual as possible. Please note from time to time information may be changed or updated. Equipment shown or described throughout this manual may be changed. The right is reserved to make changes at any time without notice.

**ALL CHILDREN SHOULD BE SUPERVISED WHILE PLAYING ON EQUIPMENT.**

## THE ORDER OF ASSEMBLY:

- 1) Prepare your site.
- 2) If you are using an Anchor bolt, you will need to pour concrete at least 48 hours in advance. Do not leave any open holes overnight. (Never leave a structure overnight in a potentially hazardous condition, i.e. open footing holes, open decks, exposed concrete, without roping off the area and posting warning signs. It is always best if the construction is scheduled such that the entire installation can be performed in one day, however, with larger structures this may be difficult.)
- 3) Place this assembly in the footings. If you are sure the assembly is correctly positioned, you may pour the post footings at this time to help stabilize the structure. If installing the Surface Mount method, move the assembly to the proper location. Use the feet as templates, drill bolt holes and secure the structure to the footings.
- 4) Make sure the structure is level and at the proper height.
- 5) Tighten all hardware and install clamp drive pins. Be sure to use as many as the instructions call out.
- 6) Place warning labels on the structure. Inspect playground for protruding hardware, entrapment gaps between 89mm [3-1/2"] to 229mm [9"], and string entanglements. Any accessible exposed bolt ends that protrude beyond the face of the nut more than two threads should be trimmed and peened by the installer.
- 7) Install resilient surfacing on the entire "use zone".

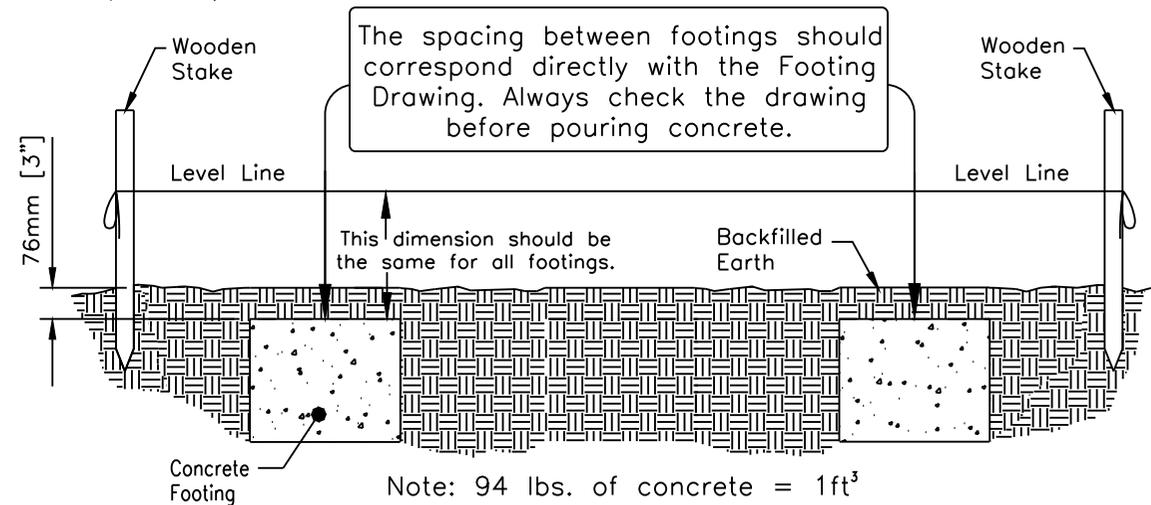
## POST CLAMP INSTALLATION:

1. Position the clamp halves around the post and loosely connect halves together with the hardware shown in DETAIL 1 on Sheet 8 (do not install clamp drive pins yet).
2. Move the clamp assembly along the post until it lines up with the location that it will be connected to the beam.
3. Level the clamp assembly around the post and tighten clamp hardware.
4. As a last step in the playground installation, install hammer drive pins. Locate one of the existing small holes in a clamp half (either hole can be used, use the most accessible). This will be the drilling site for the hammer drive pin. Drill a 5mm [3/16"] dia. hole into the post. Insert the hammer drive pin into the hole. Tap the center core pin inward until it is flush with the outer pin surface. Be careful not to mar the painted surfaces. Repeat on the other clamp half. Hammer drive pins are shipped separately from clamp hardware.

## MAKING LEVEL FOOTINGS:

By using wooden stakes and stringing a level line, you can determine the proper height for your concrete. If available, a surveyor's transit will also be helpful.

Determine ground level at the lowest footing location and pour concrete in this location first. This level will be your datum plane. (The point at which all other footing heights are referenced from.) Pour the rest of the footings up to 76mm [3"] from the level of the datum plane. Make sure that all measurements from the top of the poured footing to the level line are the same. (Hint: If installing a surface mount structure, concrete should be poured at least 48 hours in advance of the playground being installed to ensure maximum holding potential.)



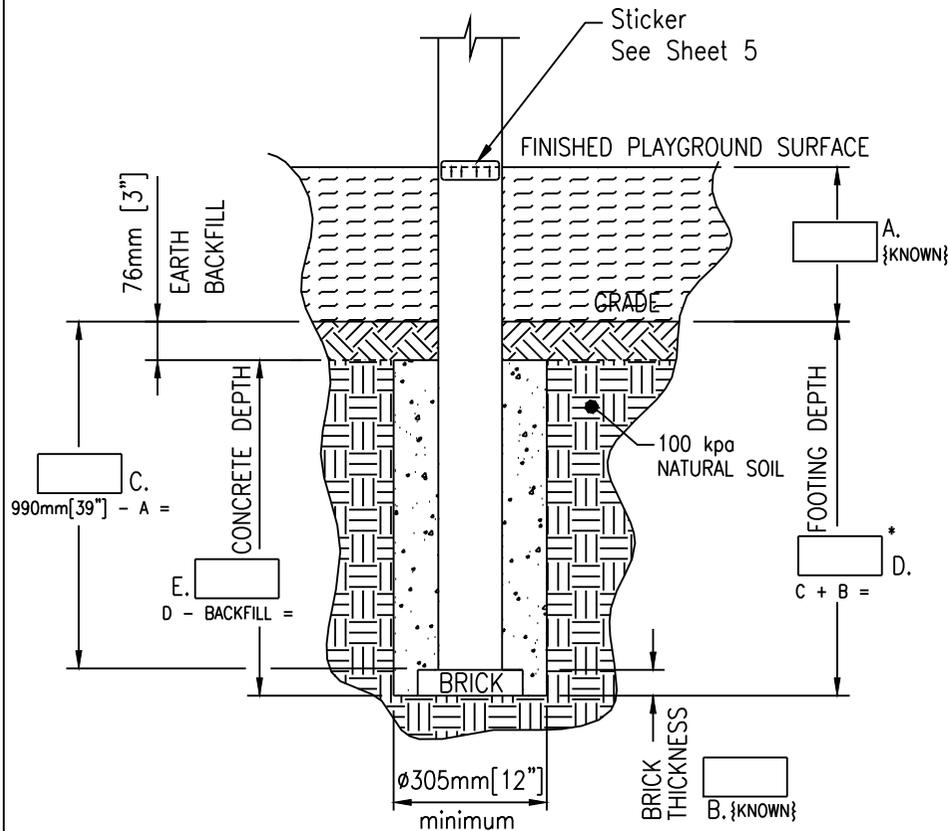
If installing with the Inground method, you must always backfill footings with at least 76mm [3"] of earth after concrete has cured (not shown).

## SUGGESTED TOOLS:

- 2 Magnetic Levels
- 1 1220[48"] Carpenter's Level
- 2 Measuring Tapes
- 1 Felt Tip Pen
- 1 Sledge Hammer or Rubber Mallet
- 1 610mm-915mm [24"-36"] Bolt Cutter
- 1 Roll of String
- Ratchets for M10 Torx Service Drive
- Electric Drill
- C-Clamps
- Saw Horses
- Resilient Ground Cover
- Extension Cords
- Water Supply/Garden Hose
- Wooden Stakes
- Concrete (in some cases)
- Some sort of digging equipment
- Transit
- Adjustable Wrenches
- Metric Socket Set
- Various Drill Bits
- Wheel Barrow
- Ladders
- Generator/ Power Source

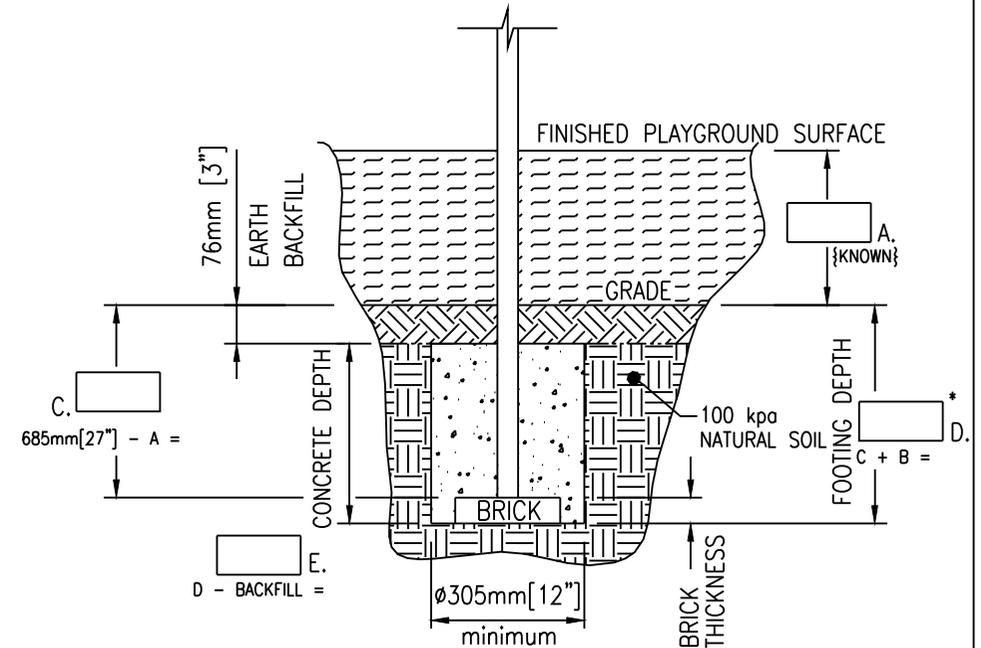
INGROUND FOOTING DETAILS

1. COMPLETE THE CALCULATION SHEET BELOW (FILL IN BLOCKS A THRU E).
2. FOOTING SIZE MAY VARY DUE TO LOCAL SOIL AND WEATHER CONDITIONS.
3. BASE OF FOOTING MUST BE BELOW FROST LINE.



- A. GROUND COVER DEPTH {KNOWN}.
- B. BRICK THICKNESS {KNOWN}.
- C. 990mm[39"] - A BECAUSE A + C SHOULD ALWAYS EQUAL 990mm[39"]
- D. FOOTING DEPTH = [C] + BRICK THICKNESS.  
\*MINIMUM 610mm[24"] + BRICK THICKNESS FOOTING DEPTH REQUIRED
- E. CONCRETE DEPTH = FOOTING DEPTH [D] - 76mm[3"] (BACKFILL).

KB POST FOOTING - INGROUND



- A. GROUND COVER DEPTH {KNOWN}.
- B. BRICK THICKNESS {KNOWN}.
- C. 685mm[27"] - A  
BECAUSE A + C SHOULD ALWAYS EQUAL 685mm[27"]
- D. FOOTING DEPTH = [C] + BRICK THICKNESS.  
\*MINIMUM 305mm[12"] + BRICK THICKNESS FOOTING DEPTH REQUIRED
- E. CONCRETE DEPTH = FOOTING DEPTH [D] - 76mm[3"] (BACKFILL).

KB PLAYEVENT FOOTING - INGROUND

HOW MUCH CONCRETE?

VOLUME OF CONCRETE REQUIRED FOR FOOTINGS:

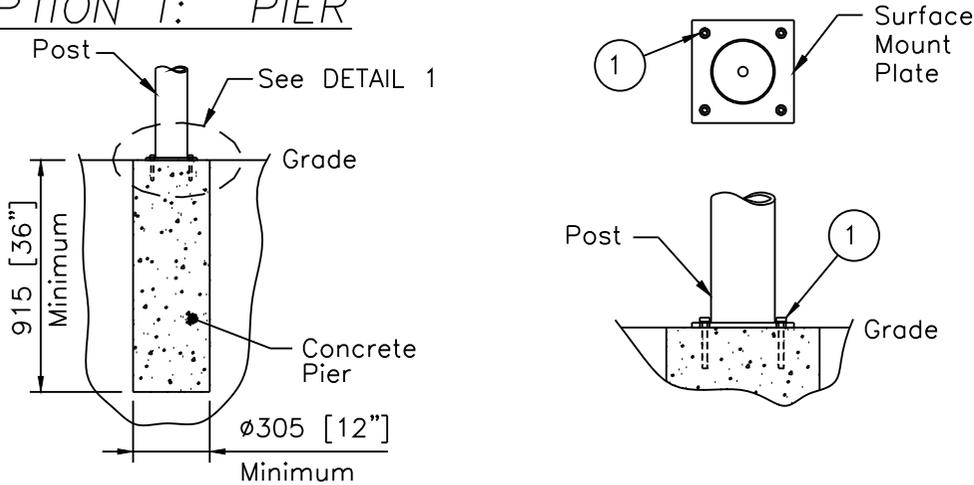
$$= 0.067 \text{ M}^3 \times \left\{ \frac{\text{CONCRETE DEPTH (mm)}}{915} \right\} \times \text{No. OF FOOTING HOLES} = \text{M}^3$$

$$= 0.087 \text{ Yard}^3 \times \left\{ \frac{\text{CONCRETE DEPTH (IN)}}{36} \right\} \times \text{No. OF FOOTING HOLES} = \text{Yard}^3$$

- NOTES: - TO CALCULATE CUBIC FEET, MULTIPLY CUBIC YARD BY 27  
- 94 lbs OF CONCRETE = 1 CUBIC FOOT.

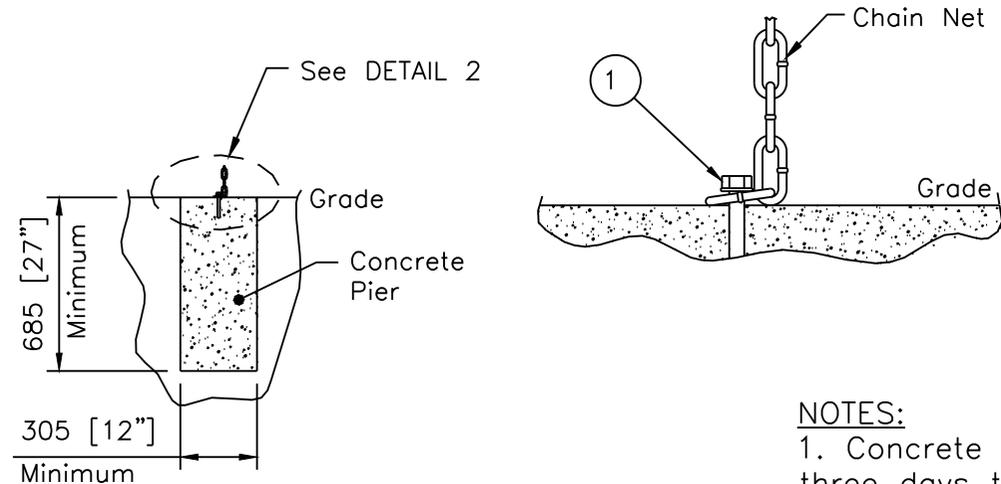
SURFACE MOUNT FOOTINGS

OPTION 1: PIER



Post Footing Parts List (Surf. Mt. Anchor)			
Item	Dwg Ref	Description	Qty.
1	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100MM	4

Post Footing



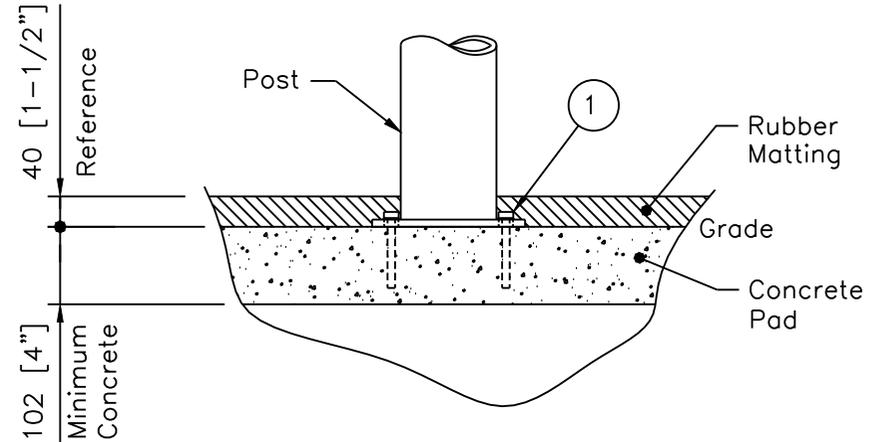
Playevent Footing

NOTES:

1. Concrete may require up to three days to cure.
2. A 3/8" Masonry bit is required to install anchor bolts.

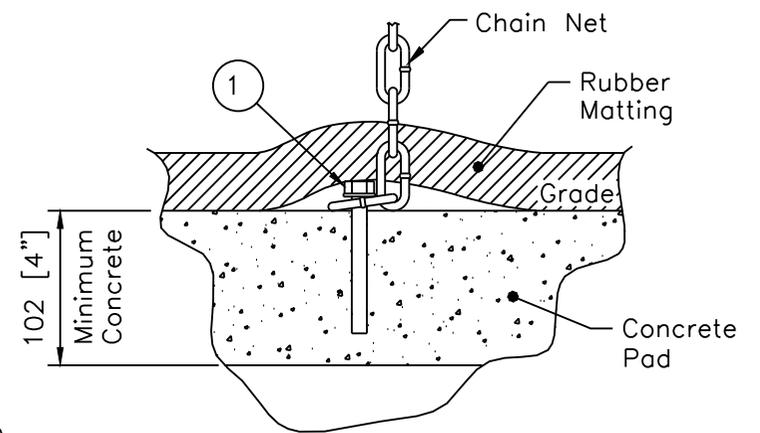
OPTION 2: CONCRETE PAD

AUTHORISED BY 11MAR13  
*Eric L. Claudus*



Post Footing Parts List (Surf. Mt. Anchor)			
Item	Dwg Ref	Description	Qty.
1	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100MM	4

Post Footing



Playevent Footing

GENERAL INFORMATION



WARNING

INSTALLATION OVER A HARD SURFACE SUCH AS CONCRETE, ASPHALT, OR PACKED EARTH MAY RESULT IN SERIOUS INJURY OR DEATH FROM FALLS.

L'INSTALLATION SUR SURFACE DURE TELLE QUE DU CIMENT, DE L'ASPHALTE OU DE LA TERRE BATTUE PEUT CAUSER DE SERIEUSES BLESSURES OU MEME LA MORT EN CAS DE CHUTE.

INSTALACION SOBRE UNA SUPERFICIE DURA, TAL COMO CONCRETO, ASFALTO O TERRENO COMPACTADO, PUEDE PROVOCAR QUE UNA CAIDA CAUSE LESIONES SERIAS O INCLUSO LA MUERTE.

Little Tikes Commercial Play Systems Inc.  
P.O. Box 897  
Farmington, MO 63640

For more information, call Little Tikes  
Commercial Play Systems Inc.  
at 1-888-458-2737 or 1-573-756-4591

← This label has been provided by Little Tikes Commercial Play Systems Inc. for the purpose of informing the user of the safety risk involved if a fall onto a hard surface occurs.

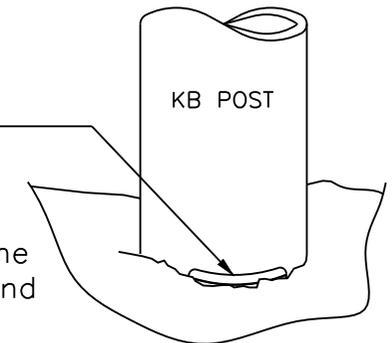
It is important when installing your play equipment to display this label in a prominent location on each structure.

This label should be placed such that it will:

- (1) Be readily visible to the intended viewer and,
- (2) Alert the viewer to the potential hazard in time to take appropriate action.

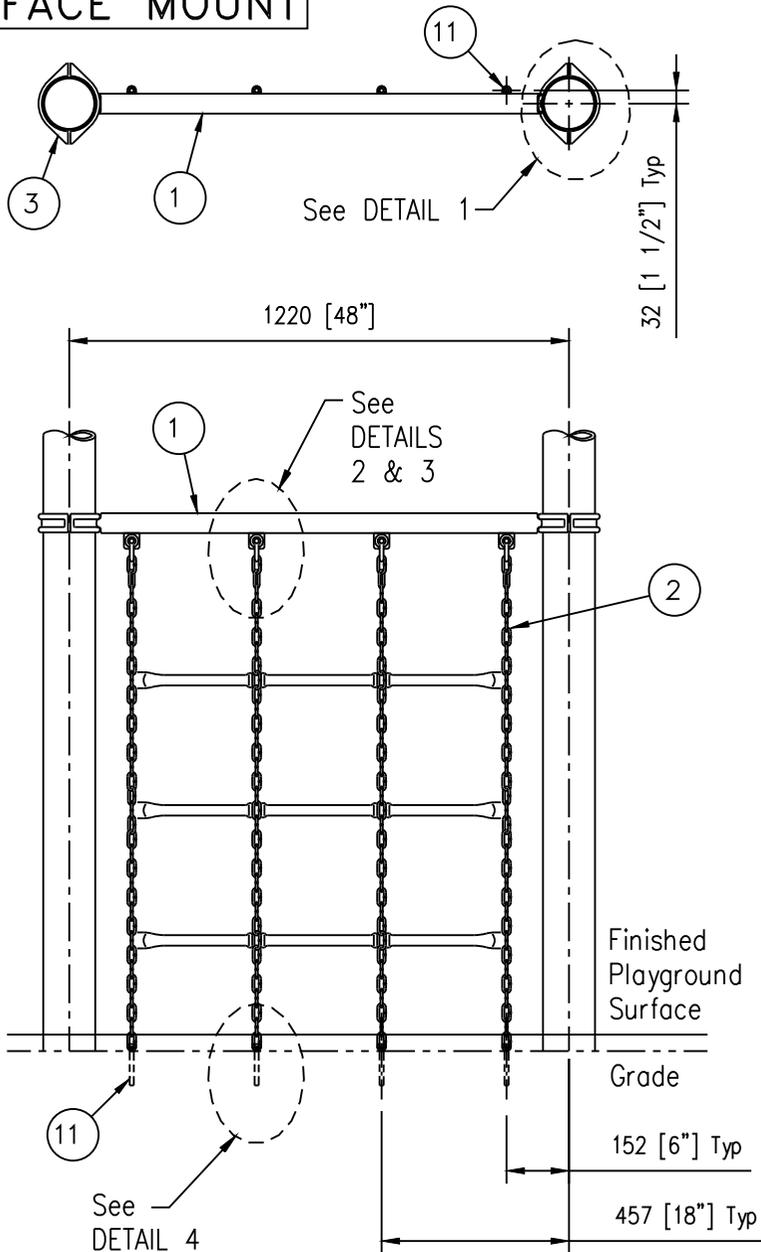
Do not place this label in a high traffic area or in a location of excessive wear. If the label becomes illegible, destroyed, or removed, it is necessary for the operator to replace the label as soon as possible.

If you are in need of Material Safety Data Sheets pertaining to the use and handling of any maintenance materials such as touch-up paint, vinyl repair kits or for product such as Kid Tiles adhesive or urethane top coatings, please contact our Customer Service Department at 1(800)325-8828. They will be able to provide you with the information you require.



The sticker shown above has been provided to assist with the maintenance of your ground cover. After installing the ground cover, these stickers should be placed on the post by the installer (as shown). Peel the backing away from the sticker and attach it to the post so that the line is level with the top of your ground cover. As erosion or compaction of surfacing occurs, the line will be visible. This will indicate that it is time to add material to your surfacing.

## SURFACE MOUNT



(see Sheet 7 for Inground Mount)

- KB 1220 (48") VERT CHAIN NET CLIMBER FREESTD 200201118
- KB 1524 (60") VERT CHAIN NET CLIMBER FREESTD 200201119
- KB 1828 (72") VERT CHAIN NET CLIMBER FREESTD 200201120

### Surface Mount Parts Lists

Item	Code	Description	Qty.
1	-	BEAM F/KB VERTICAL CHAIN NET	1
2	-	CHAIN NET (TDV)	1
3	-	CLAMP HALF W/O WELDED ATTACHMENT	2
4	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	4
5	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	4
6	200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	4

#### HDWR BAG F/KB VERT CHAIN NET SM 200164442

Item	Code	Description	Qty.
7	200015170	SHACKLE "D" STYLE 300 SS	4
8	200016225	BOLT M10 X 1.5 300 SS 6-LOBE F.D SHACKLE	4
9	200043884	BUSHING BRNZ 10 X 13 X 19 MM	4
10	SP1249100	WASHER,FLAT-1/2",18-8 SS	8
11	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100MM	4

#### Application

- Age groups: 5-12
- Event may not be installed under a deck
- Refer to sheet 9 for adjacent installations footing layout

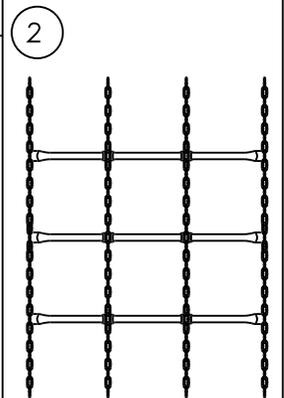
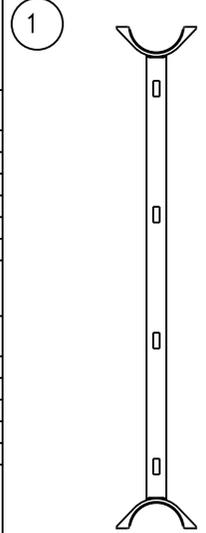
#### Installation Instructions (SURFACE MOUNT)

1. Prepare footings.
2. Install beam on posts as shown in DETAIL 1.
3. Attach Chain Net Climber to ground as shown in DETAIL 4.
4. Attach Chain Net Climber to beam as shown in DETAILS 2 and 3. All vertical chain sections must be tight as shown.
5. Install appropriate (height dependent) resilient surfacing around climber. Surfacing shall extend in all directions at least 1830mm [72"] from the point at which the climber enters the surfacing. Anchor bolts are to be completely covered by full thickness of tile after ground cover installation.

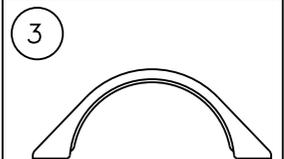
#### Surface Mount Minimum Post Height Chart

Chain Net Height	Type of Chain Net	Minimum Post Height
1220 [48"]	3 Rungs	1524mm [60"]
	4 Rungs	1829mm [72"]
1524 [60"]	4 Rungs	1829mm [72"]
	5 Rungs	2134mm [84"]
1828 [72"]	5 Rungs	2134mm [84"]
	6 Rungs	2438mm [96"]

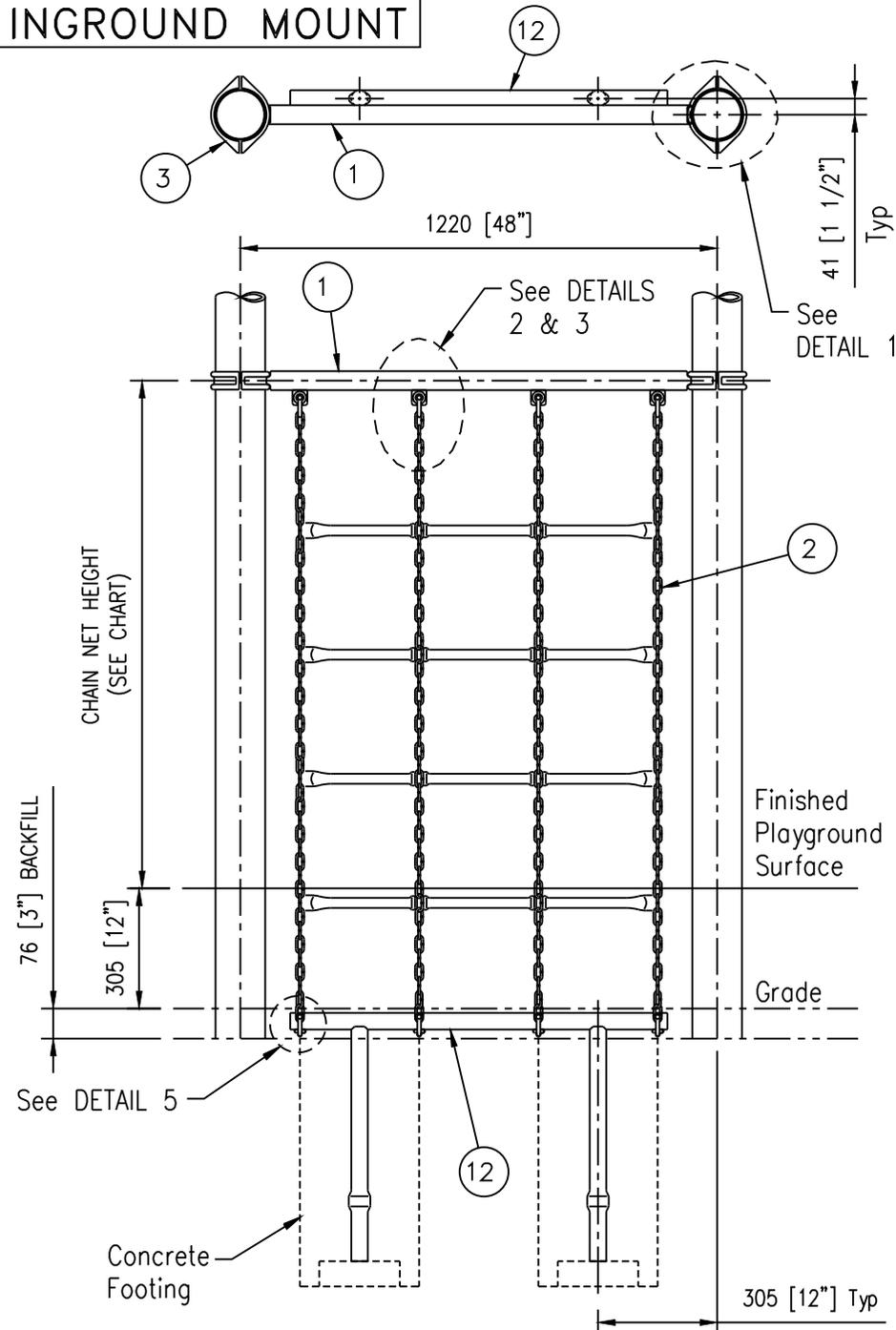
AUTHORIZED BY: 11MAR13  
*Eric L. Claudus*



Number of rungs will vary with beam height and footing



## INGROUND MOUNT



KB 1220 (48") VERT CHAIN NET CLIMBER FREESTD 200201118  
KB 1524 (60") VERT CHAIN NET CLIMBER FREESTD 200201119  
KB 1828 (72") VERT CHAIN NET CLIMBER FREESTD 200201120

### Inground Mount Parts Lists

Item	Code	Description	Qty.
1	-	BEAM F/KB VERTICAL CHAIN NET	1
2	-	CHAIN NET (TDV)	1
3	-	CLAMP HALF W/O WELDED ATTACHMENT	2
4	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	4
5	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	4
6	200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	4
12	200164692	BAR ING F/KB VERT CHAIN NET CLIMBER TAN	1

### HWDR BAG F/KB VERT CHAIN NET ING 200164443

Item	Code	Description	Qty.
7	200015170	SHACKLE "D" STYLE 300 SS	8
8	200016225	BOLT M10 X 1.5 300 SS 6-LOBE F.D SHACKLE	8
9	200043884	BUSHING BRNZ 10 X 13 X 19 MM	4
10	SP1249100	WASHER,FLAT-1/2",18-8 SS	8

#### Application

- Age groups: 5-12
- Event may not be installed under a deck
- Refer to sheet 9 for adjacent installations footing layout

#### Installation Instructions (SURFACE MOUNT)

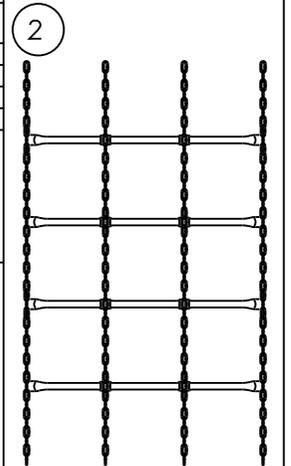
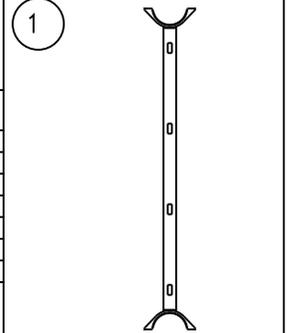
1. Prepare footings.
2. Install beam on posts as shown in DETAIL 1.
3. Attach Chain Net Climber to ground as shown in DETAIL 5.
4. Attach Chain Net Climber to beam as shown in DETAILS 2 and 3. All vertical chain sections must be tight as shown.
5. Install appropriate (height dependent) resilient surfacing around climber. Surfacing shall extend in all directions at least 1830mm [72"] from the point at which the climber enters the surfacing.

#### Inground Mount Minimum Post Height Chart

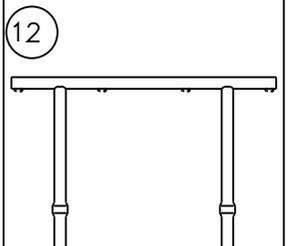
Chain Net Height	Type of Chain Net	Minimum Post Height
1220 [48"]	4 Rungs	3050mm [120"]
1524 [60"]	5 Rungs	3050mm [120"]
1828 [72"]	6 Rungs	3455mm [136"]

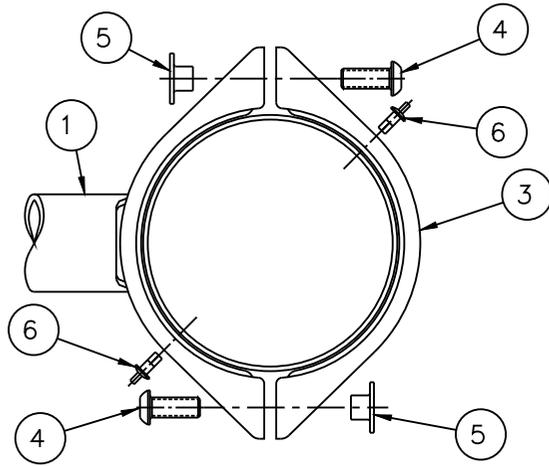
AUTHORIZED BY: 11MAR13

*Eric L. Claudus*



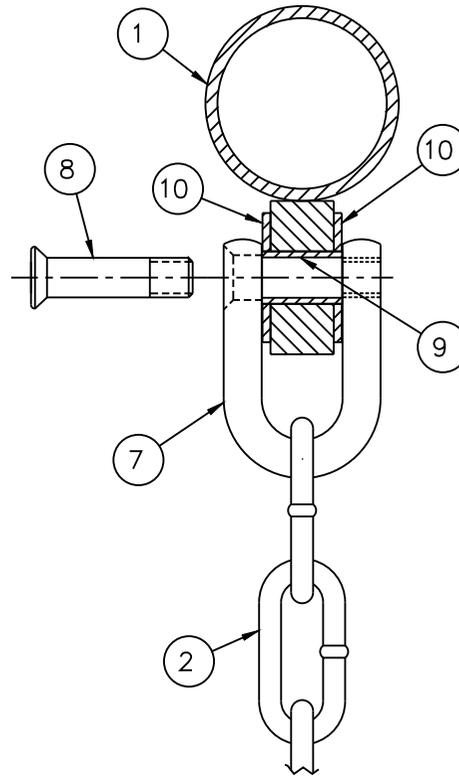
Number of rungs will vary with beam height and footing





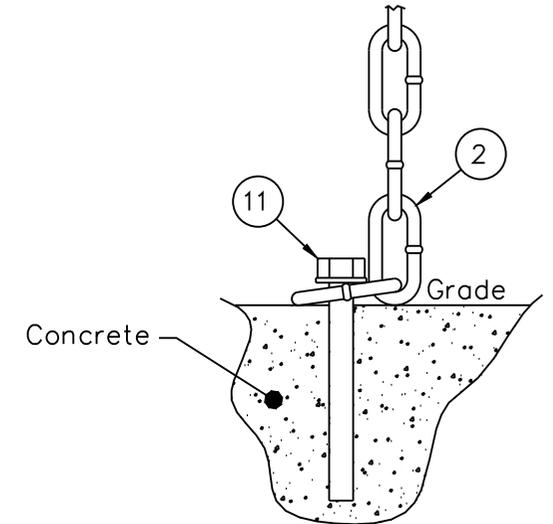
DETAIL 1

SCALE: 5X TYP 2 PL



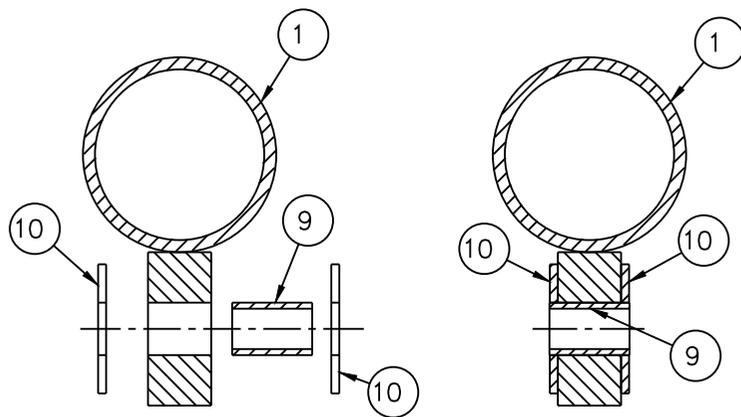
DETAIL 3

Typ 4 Places  
(D-shackle & chain)



DETAIL 4

Typ 4 Places  
(surface mount only)

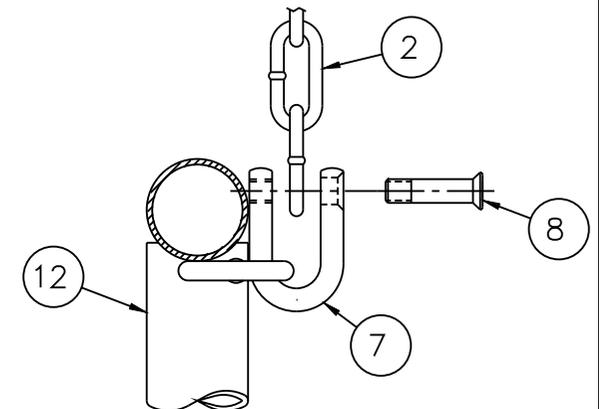


Before assembly

After assembly

DETAIL 2

Typ 4 Places  
(bushing & washers)



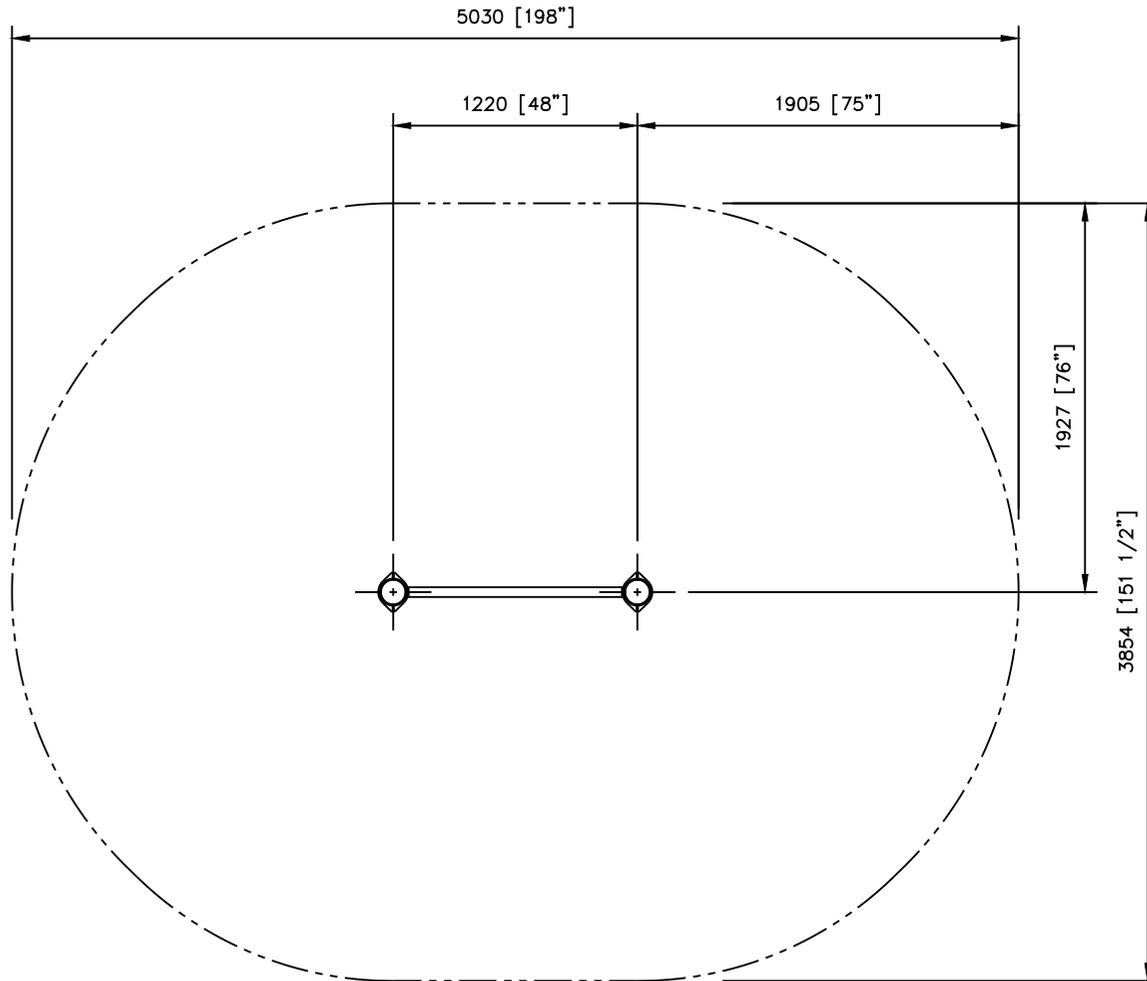
DETAIL 5

Typ 4 Places  
(inground mount only)

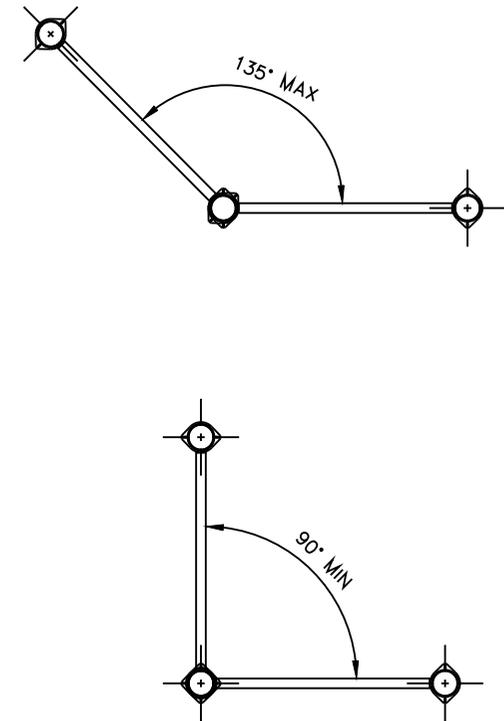
FALL ZONE

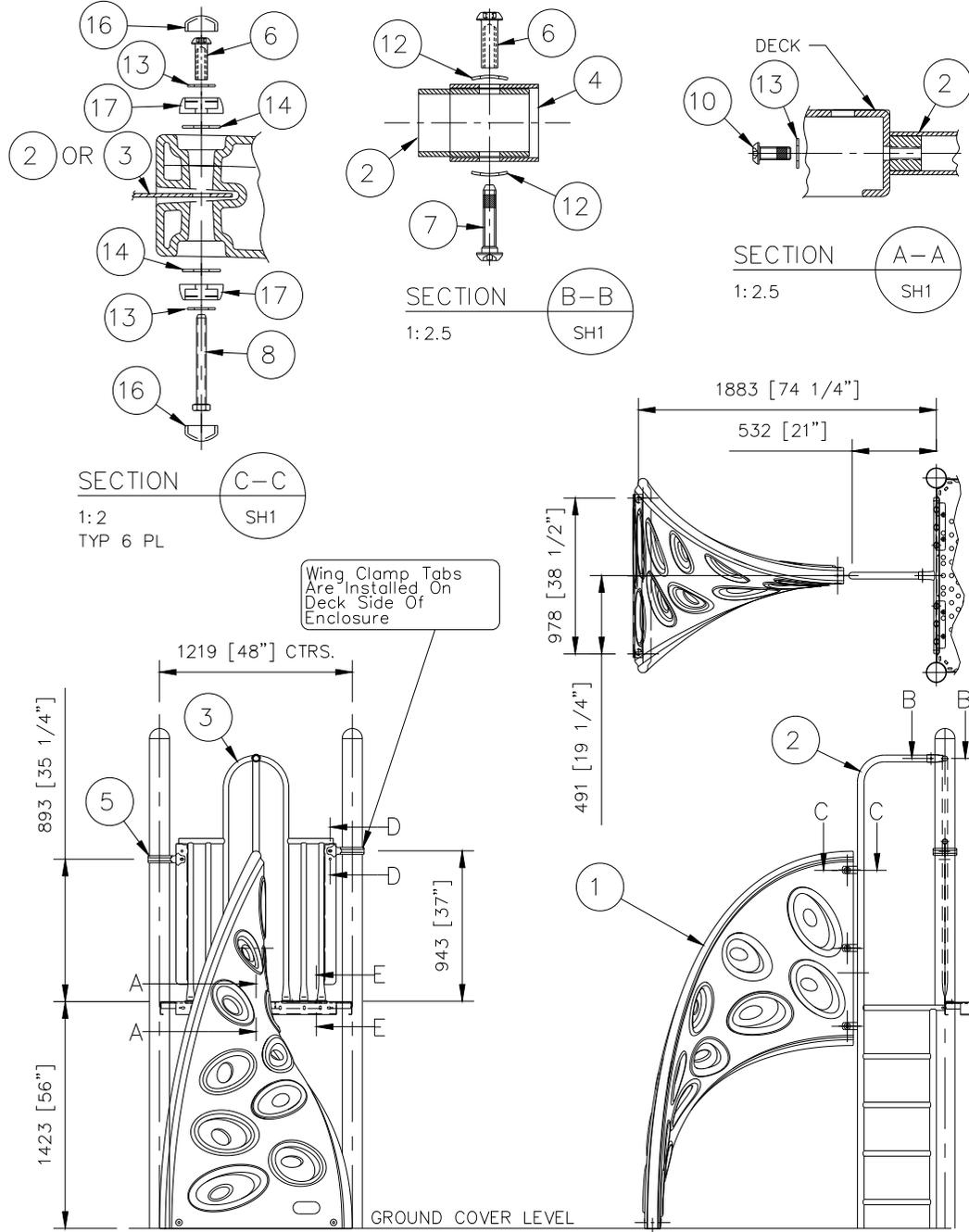
AUTHORIZED BY: 11MAR13  
*Eric L. Claudus*

Single Installation Footing



Adjacent Installation Footing





KB INFINITY HI-CLIMB 56" (1420 MM)	200202121
KB INFINITY HI-CLIMB 64" (1625 MM)	200202122
KB INFINITY HI-CLIMB 72" (1830 MM)	200202123
KB INFINITY HI-CLIMB 80" (2030 MM)	200202124
KB INFINITY HI-CLIMB 88" (2235 MM)	200202125
KB INFINITY HI-CLIMB 96" (2440 MM)	200202126

Item	Code	Description	Qty.
1	-	CLIMBER INFINITY TAN	1
2	-	LADDER INFNTY HI-CLMB	1
3	-	FOOTING F/INFINITY CLIMBER	1
4	-	ENCL VERT W/STUB F/KB LG DK EDGE	1
5	-	WING CLAMP ASSEMBLY	2

HDWR BAG F/KB INFINITY HI-CLIMB 200180512

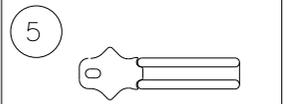
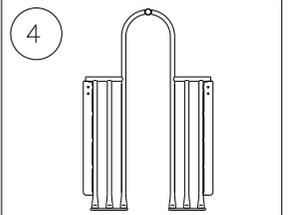
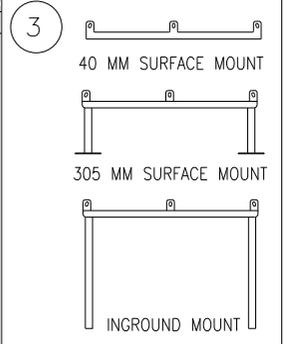
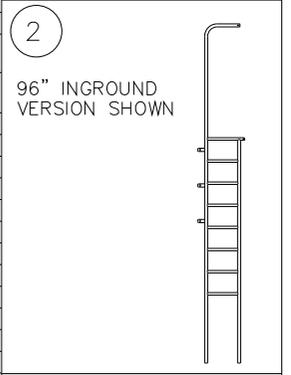
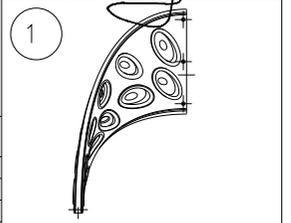
Item	Code	Description	Qty.
6	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30 MM	7
7	200002138	BOLT M8 X 1.25 MALE 42.5 MM	1
8	200001826	CAP SCR W/ PATCH	6
9	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	6
10	200002030	SCREW MACH BUTTONHEAD M10 X 1.50 X 30MM	1
11	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	6
12	200008483	WASHER BOWED M11 23.5 X 11.7 X 1.57 MM	2
13	200002079	WASHER FLAT M11 23 X 12 X 1.6	21
14	200002096	WASHER FLAT M10 34 OD X 11 ID X 3 MM THK	12
15	200002100	WASHER FLAT M11 32 OD X 13ID X 2 MM THK	4
16	200002311	CAP HDWR COVER	12
17	200002340	CAP HDWR BASE	12
18	200001776	ANCHOR CONCRETE WEDGE M10 X 1.5 X 100 MM	7 OR 8

\* SURFACE MOUNT ONLY

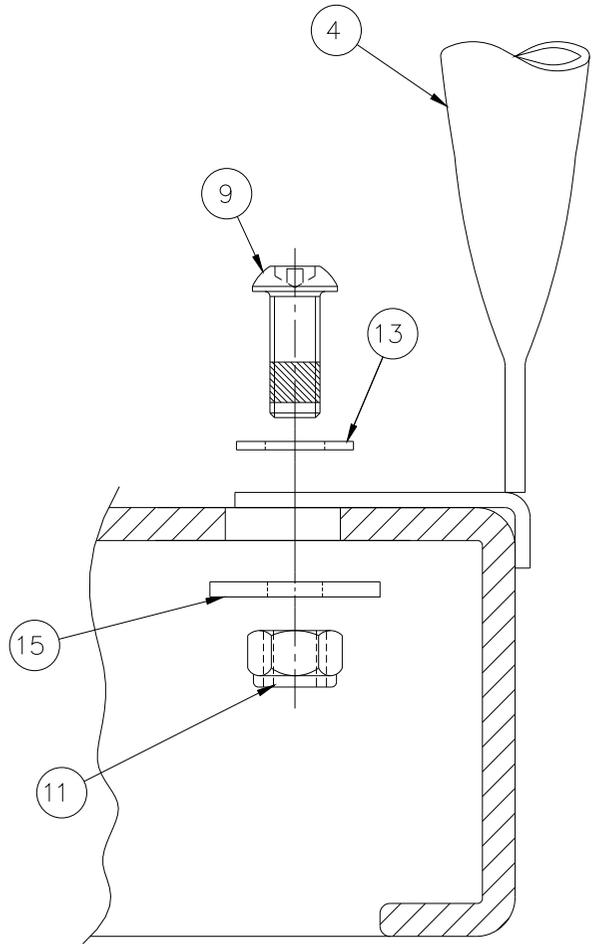
Installation Instructions

1. Prepare footings.
2. Loosely assemble wing clamps to the enclosure as shown in Section E-E and attach to posts (Refer to front of manual for clamp installation details).
3. Attach the enclosure to the deck as shown in Section D-D.
4. Attach the ladder to the enclosure as shown in Section B-B and to the deck as shown in Section A-A.
5. Attach the footing (item 3) to the infinity climber as shown in Section C-C.
6. Attach the climber to ladder as shown in Section C-C.
7. Check for level and plumb, tighten all hardware, install hardware covers and install hammer drive pins.
8. Complete footings and install appropriate resilient surfacing.

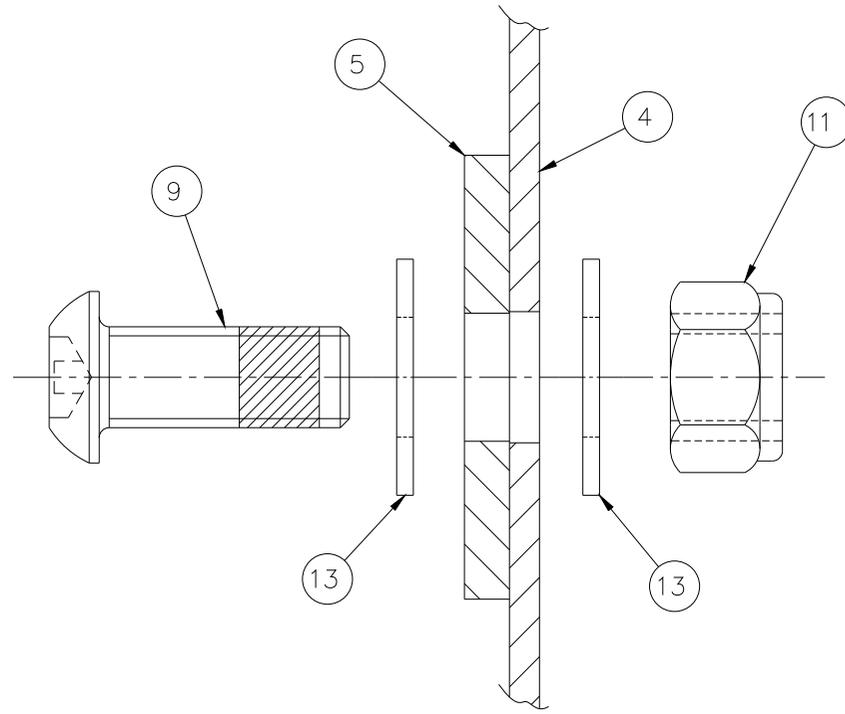
AUTHORIZED BY:  
*Chris M. Anderson* 15MAY09



NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS



SECTION D-D  
1:1  
TYP 4 PL  
SH1



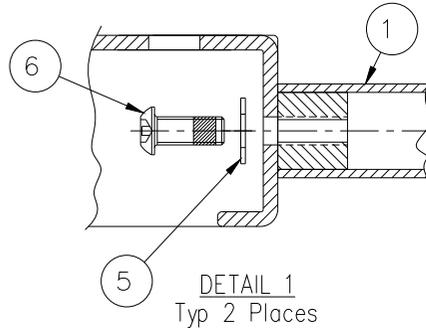
SECTION E-E  
1:2  
TYP 2 PL  
SH1

NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

TABLE 1

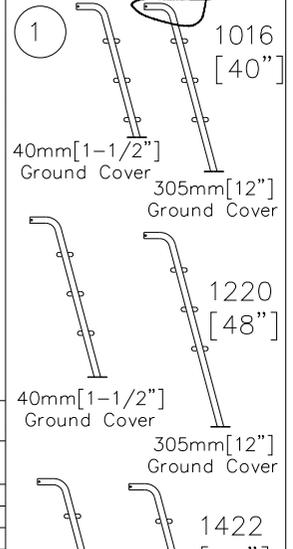
Surface Mount Footing Dimensions

"Y"	"X"	"X"
Deck Height	40mm [1-1/2"] Ground Cover	305mm [12"] Ground Cover
1016 [40"]	470 [18-1/2"]	545 [21-7/16"]
1220 [48"]	525 [20-11/16"]	599 [23-9/16"]
1422 [56"]	579 [22-13/16"]	654 [25-3/4"]
1625 [64"]	634 [25"]	708 [27-7/8"]
1829 [72"]	688 [27-1/16"]	763 [30"]
2032 [80"]	743 [29-1/4"]	817 [32-3/16"]
2235 [88"]	797 [31-3/8"]	872 [34-5/16"]
2438 [96"]	852 [33-9/16"]	926 [36-7/16"]



KB WAVY RUNG CLIMBER 40"	200202167
KB WAVY RUNG CLIMBER 48"	200202168
KB WAVY RUNG CLIMBER 56"	200202169
KB WAVY RUNG CLIMBER 64"	200202170
KB WAVY RUNG CLIMBER 72"	200202171
KB WAVY RUNG CLIMBER 80"	200202172
KB WAVY RUNG CLIMBER 88"	200202173
KB WAVY RUNG CLIMBER 96"	200202174
KB WILD RUNG CLIMBER 40"	200202180
KB WILD RUNG CLIMBER 48"	200202181
KB WILD RUNG CLIMBER 56"	200202182
KB WILD RUNG CLIMBER 64"	200202183
KB WILD RUNG CLIMBER 72"	200202184
KB WILD RUNG CLIMBER 80"	200202185
KB WILD RUNG CLIMBER 88"	200202186
KB WILD RUNG CLIMBER 96"	200202187

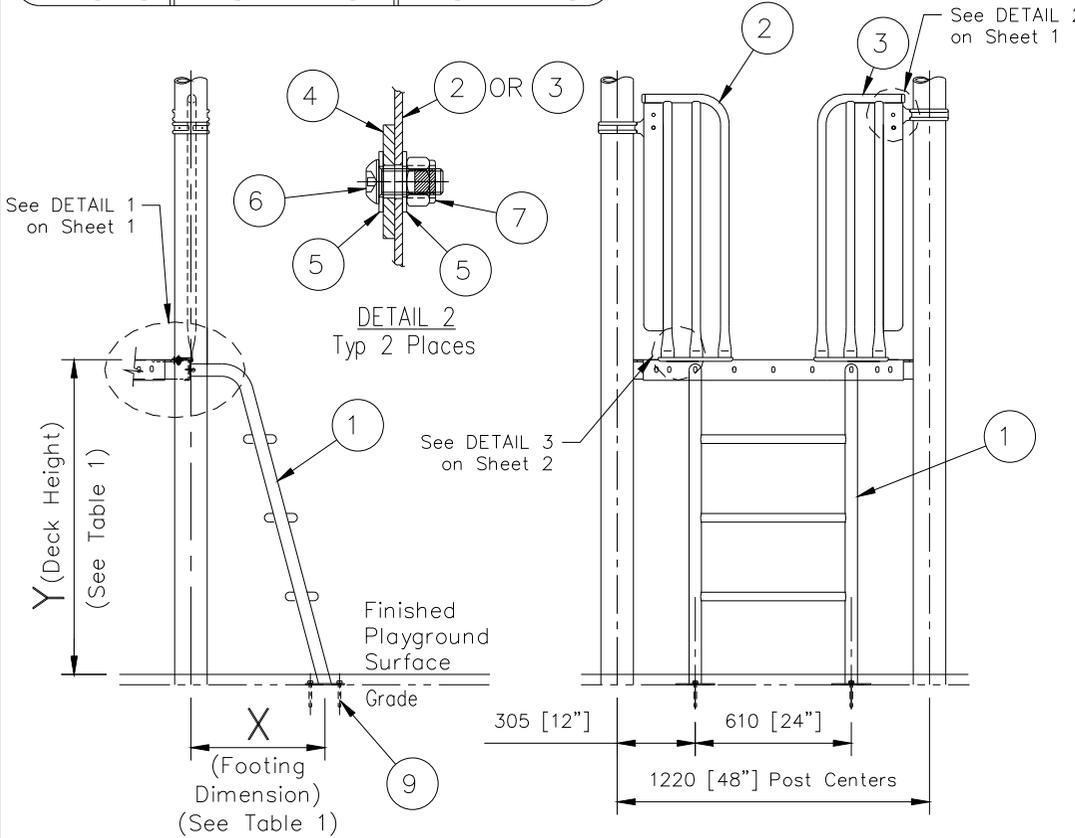
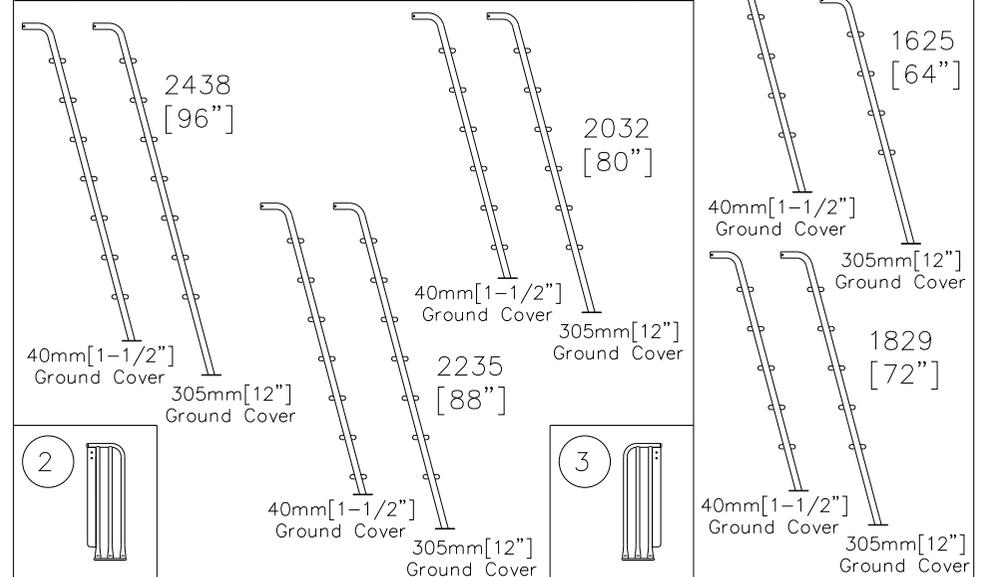
AUTHORIZED BY: 08OCT09  
*Chris M. [Signature]*

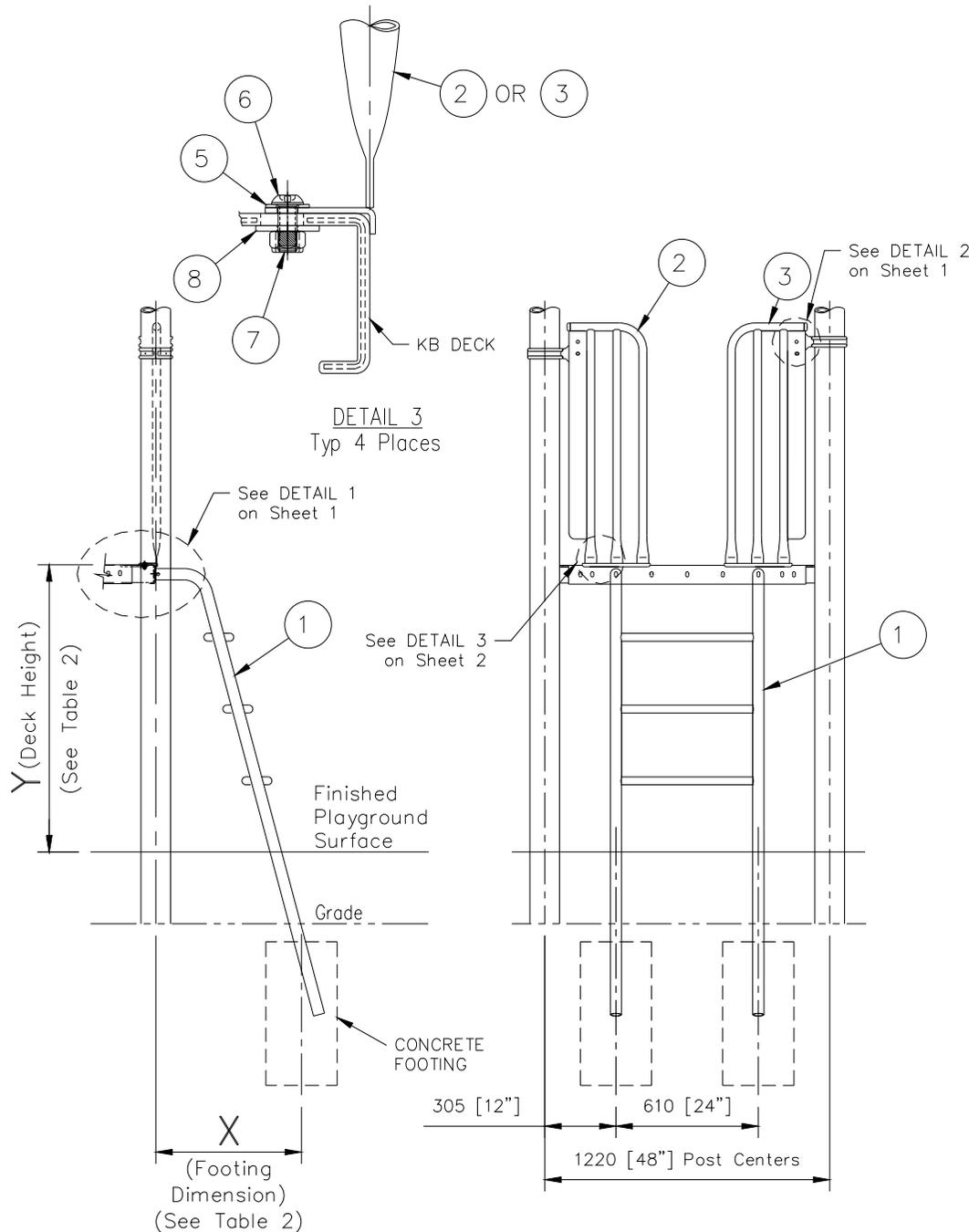


Item	Code	Description	Qty.
1A	-	WAVY RUNG CLIMBER	1
1B	-	WILD RUNG CLIMBER	1
2	-	LOOP SAFETY W/O TAB LFT. F/KB	1
3	-	LOOP SAFETY W/O TAB RGT. F/KB	1
4	-	KB WING CLAMP ASSEMBLY	2

HDWR BAG F/KB RUNG LADDERS  
200007799

Item	Code	Description	Qty.
5	200002079	WASHER FLAT M11 23 X 12 X 1.6	10
6	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25 MM	8
7	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	6
8	200002096	WASHER FLAT M10 34 OD X 11 ID X 3 MM THK	4
9	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100MM	4





### Installation Instructions

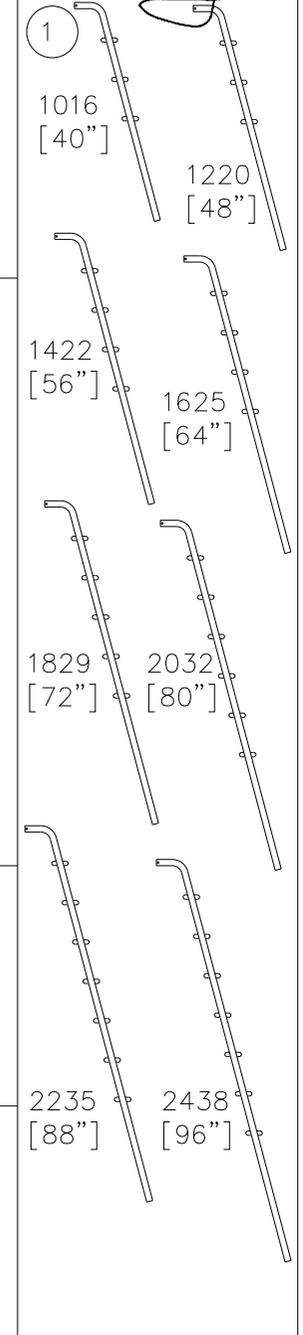
1. Prepare footings.
2. Loosely assemble clamps (refer to front of manual for clamp installation details).
3. Loosely attach loops to the deck as shown in DETAIL 3 and to the clamps/post as shown in DETAIL 2.
4. Attach rung climber to deck as shown in DETAIL 1.
4. Tighten all hardware and install clamp drive pins.
5. Complete footings and install resilient surfacing.

TABLE 2

Inground Mount "Y"	Deck Height	Footing Dimensions "X"	305mm [12"] Ground Cover
1016 [40"]		573 [22-5/8"]	
1220 [48"]		624 [24-5/8"]	
1422 [56"]		678 [26-11/16"]	
1625 [64"]		733 [28-7/8"]	
1829 [72"]		787 [31"]	
2032 [80"]		841 [33-1/8"]	
2235 [88"]		896 [35-1/4"]	
2438 [96"]		950 [37-3/8"]	

AUTHORIZED BY: 08OCT09

*Chris M. Newberry*





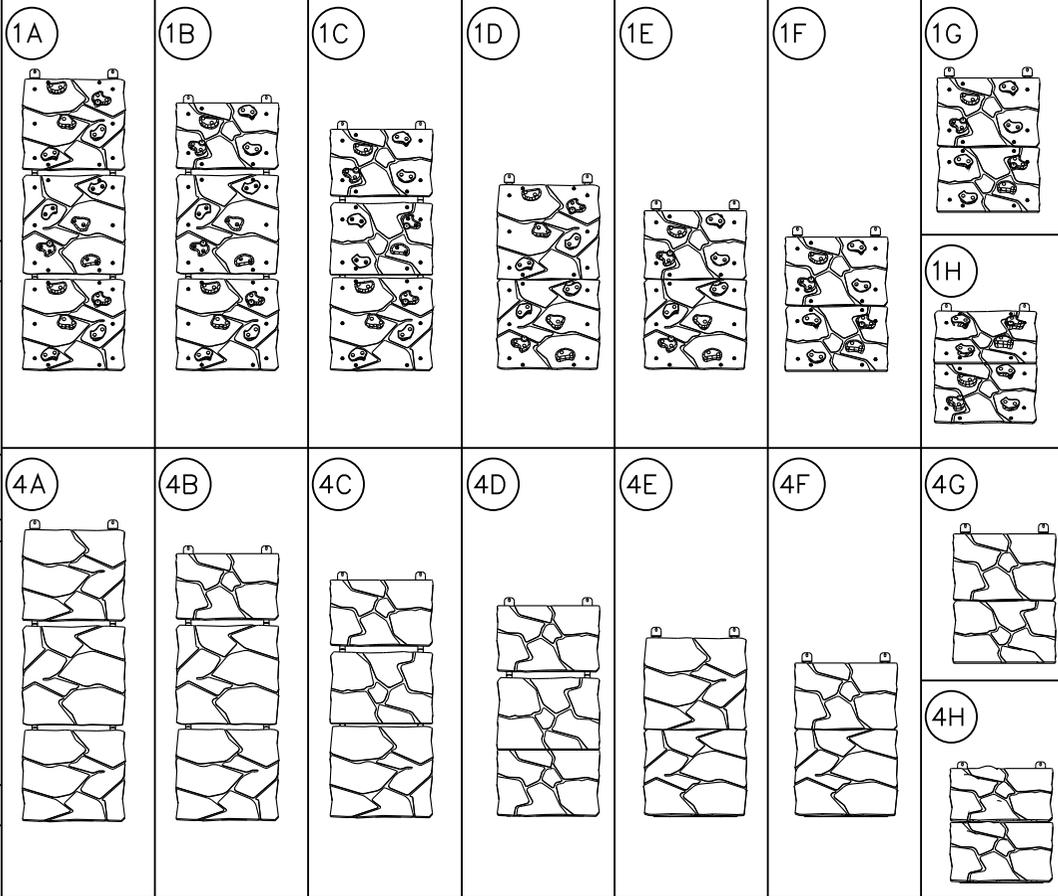
# KB TILTED ROCK CHALLENGE WALL / NU-EDGE CHALLENGE WALL

200196344

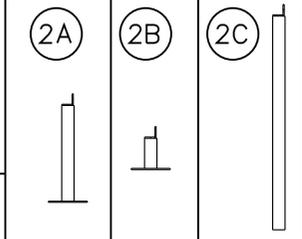
KB300230B

Sheet 1 of 2

KB TILTED ROCK CHALLENGE WALL 96"	200202482
KB TILTED ROCK CHALLENGE WALL 88"	200202481
KB TILTED ROCK CHALLENGE WALL 80"	200202480
KB TILTED ROCK CHALLENGE WALL 72"	200202479
KB TILTED ROCK CHALLENGE WALL 64"	200202478
KB TILTED ROCK CHALLENGE WALL 56"	200202477
KB TILTED ROCK CHALLENGE WALL 48"	200202476
KB TILTED ROCK CHALLENGE WALL 40"	200202475



AUTHORIZED BY: 12DEC11  
*Eric L. Cloudus*



Item	Code	Description	Qty.
1A	-	TILTED ROCK CHALLENGE 96"	1
1B	-	TILTED ROCK CHALLENGE 88"	
1C	-	TILTED ROCK CHALLENGE 80"	
1D	-	TILTED ROCK CHALLENGE 72"	
1E	-	TILTED ROCK CHALLENGE 64"	
1F	-	TILTED ROCK CHALLENGE 56"	
1G	-	TILTED ROCK CHALLENGE 48"	
1H	-	TILTED ROCK CHALLENGE 40"	
2A	-	TILTED ROCK CHALL FOOT SM305	
2B	-	TILTED ROCK CHALL FOOT SM40	
2C	-	TILTED ROCK CHALL FOOT ING	
3	-	SAFETY LOOP ASSEMBLY F/KB WITH 2 WING CLAMPS	1 SET

NU-EDGE ROCK CHALLENGE WALL 96"	200202820
NU-EDGE ROCK CHALLENGE WALL 88"	200202821
NU-EDGE ROCK CHALLENGE WALL 80"	200202822
NU-EDGE ROCK CHALLENGE WALL 72"	200202823
NU-EDGE ROCK CHALLENGE WALL 64"	200202824
NU-EDGE ROCK CHALLENGE WALL 56"	200202825
NU-EDGE ROCK CHALLENGE WALL 48"	200202826
NU-EDGE ROCK CHALLENGE WALL 40"	200202827

Item	Code	Description	Qty.
4A	-	ASSY KB 96" NU-EDGE ROCK CHALL	1
4B	-	ASSY KB 88" NU-EDGE ROCK CHALL	
4C	-	ASSY KB 80" NU-EDGE ROCK CHALL	
4D	-	ASSY KB 72" NU-EDGE ROCK CHALL	
4E	-	ASSY KB 64" NU-EDGE ROCK CHALL	
4F	-	ASSY KB 56" NU-EDGE ROCK CHALL	
4G	-	ASSY KB 48" NU-EDGE ROCK CHALL	
4H	-	ASSY KB 40" NU-EDGE ROCK CHALL	
2A	-	TILTED ROCK CHALL FOOT SM305	2
2B	-	TILTED ROCK CHALL FOOT SM40	
2C	-	TILTED ROCK CHALL FOOT ING	
3	-	SAFETY LOOP ASSEMBLY F/KB WITH 2 WING CLAMPS	1 SET

HDWR BAG F/TILTED ROCK CHAL 200194913

Item	Code	Description	Qty.
5	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM	4
6	200002079	WASHER FLAT M11 23 X 12 X 1.6	10
7	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	8
8	200002100	WASHER FLAT M11 320D X 13ID X 2MM S.S.	4
9	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	6

**Application**

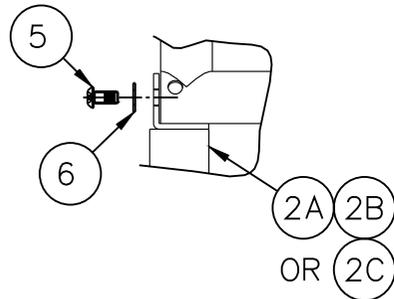
- Climbing event - cannot be used as sole access
- Never install climber without safety loops

**Installation Instructions**

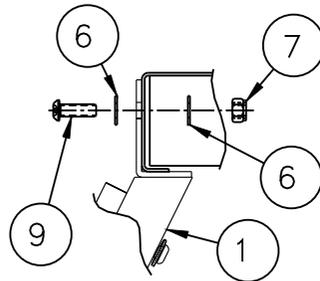
1. Prepare footings.
2. Loosely assemble clamps (refer to front of manual for clamp installation details).
3. Loosely attach loops to the deck as shown in SECTION C-C and to the clamps/post as shown in SECTION D-D
4. Attach feet to climber as shown in SECTION A-A.
5. Attach climber to deck as shown in SECTION B-B.
6. Tighten all hardware and install clamp drive pins.
7. Complete footings and install resilient surfacing.

FOOTING CHART

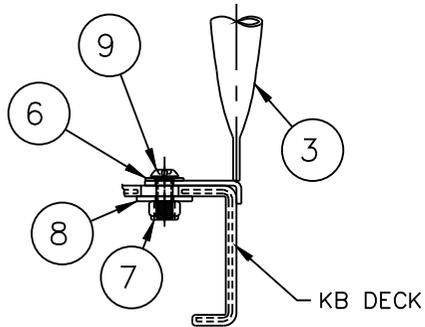
Y	X	Description
2440 (96")	715 (28")	TILTED ROCK CHALLENGE 96"
2235 (88")	431 (17")	TILTED ROCK CHALLENGE 88"
2030 (80")	537.5 (21")	TILTED ROCK CHALLENGE 80"
1830 (72")	614 (24")	TILTED ROCK CHALLENGE 72"
1630 (64")	532 (21")	TILTED ROCK CHALLENGE 64"
1425 (56")	629 (25")	TILTED ROCK CHALLENGE 56"
1220 (48")	735 (29")	TILTED ROCK CHALLENGE 48"
1016 (40")	855 (34")	TILTED ROCK CHALLENGE 40"



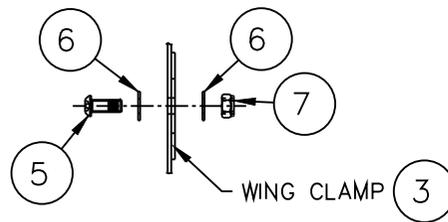
SECTION A-A  
1:5  
TYP 2 PLACES



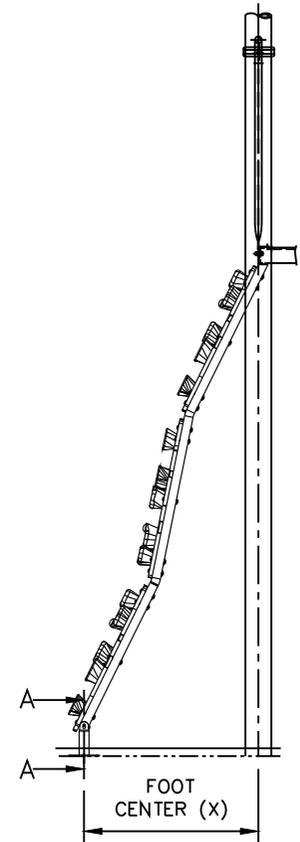
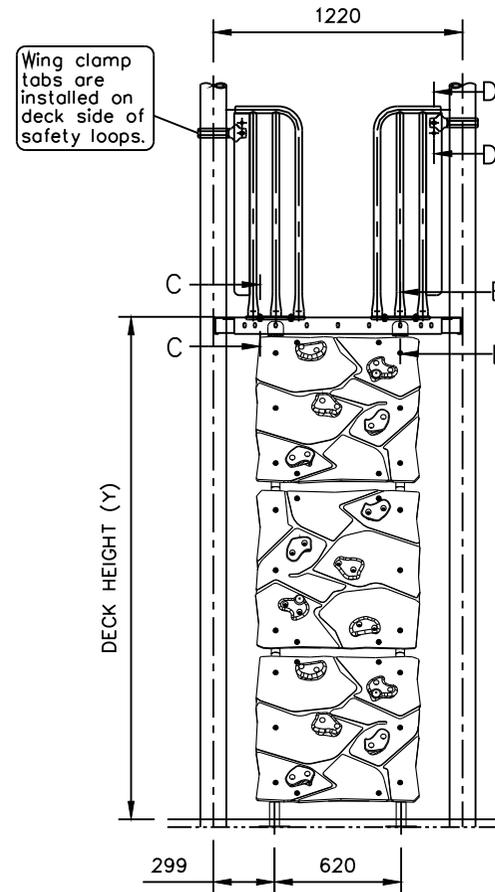
SECTION B-B  
1:5



SECTION C-C  
1:5  
TYP 4 PLACES

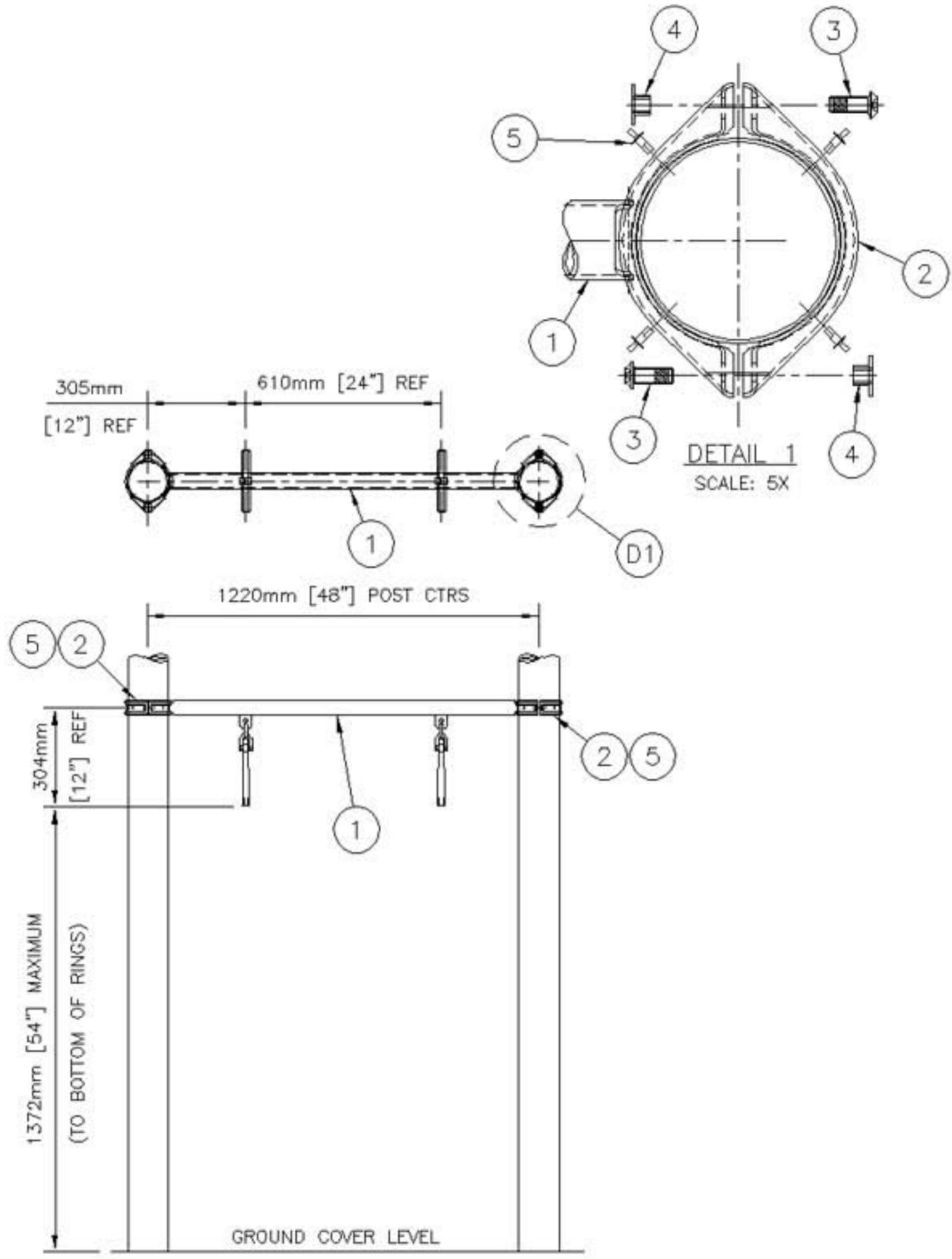


SECTION D-D  
1:5  
TYP 2 PLACES



NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

AUTHORIZED BY:  
*Eric L. Cloutier* 04SEP07

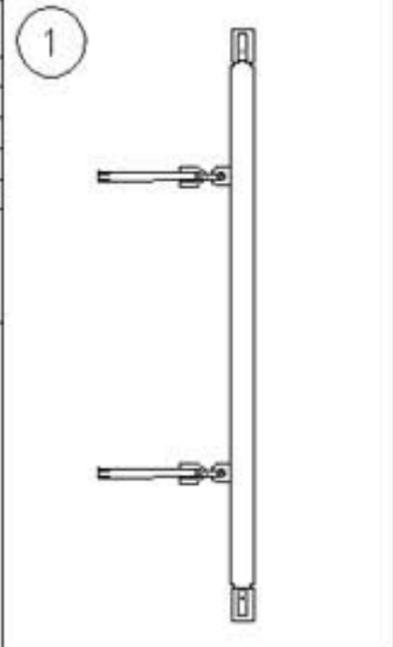


## KB THERAPEUTIC RINGS 200201090

Item	Code	Description	Qty.
1	-	THERAPUTIC RINGS F/KB	1
2	-	CLAMP HALF W/O WELDED ATTACHMENT	2
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	4
4	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	4
5	200000797	HAMMER DRIVE PIN 4.7 X 11.11 MM	8

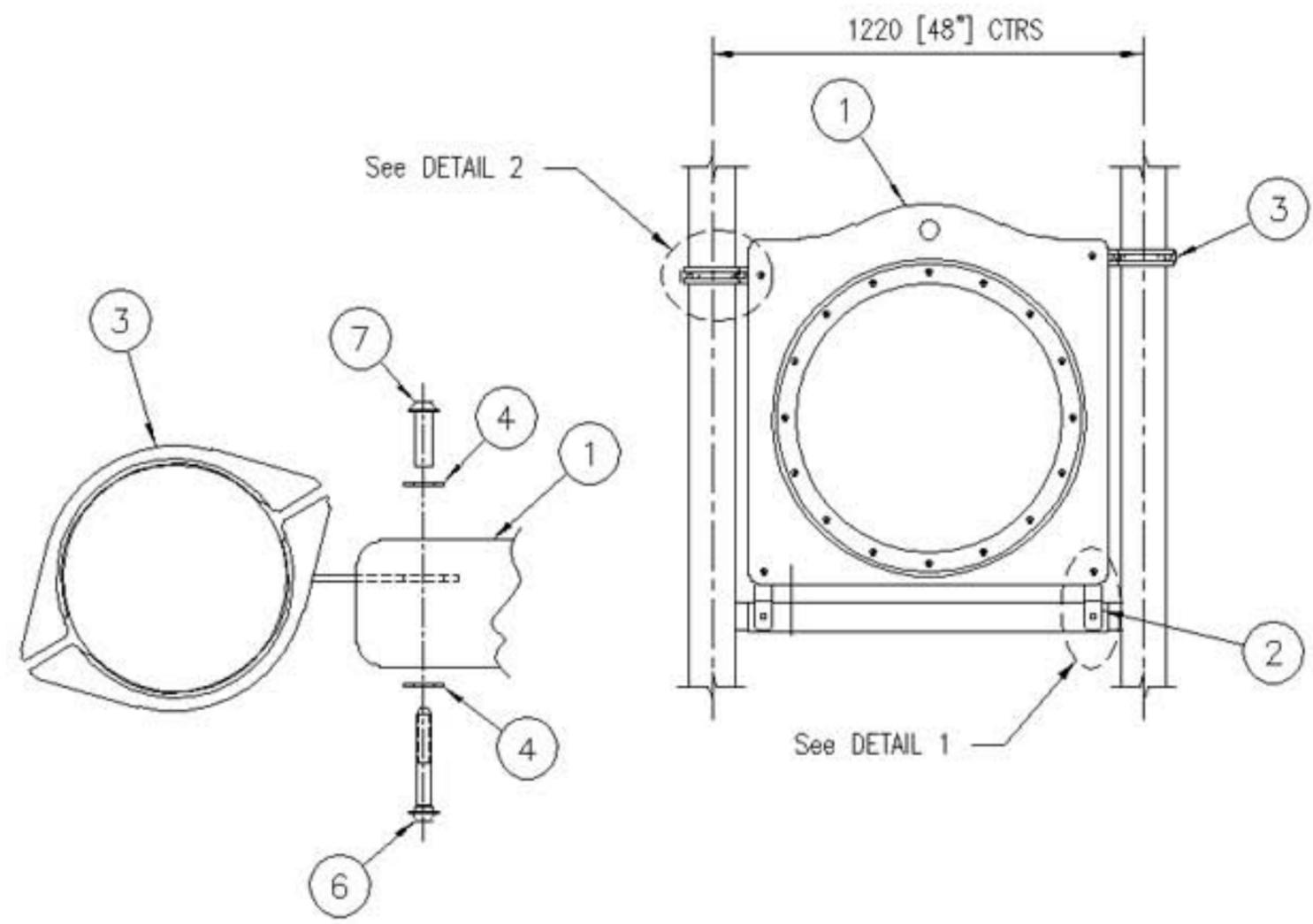
**Application**  
- Age groups: 5-12 year olds.

- Installation Instructions**
1. Prepare footings.
  2. Attach Rings (item 1) to posts as shown in DETAIL 1.
  3. Raise or lower rings to desired height before tightening. NOTE: Do NOT exceed 1372mm [54"] to bottom of rings.
  4. Tighten all hardware and complete footings.

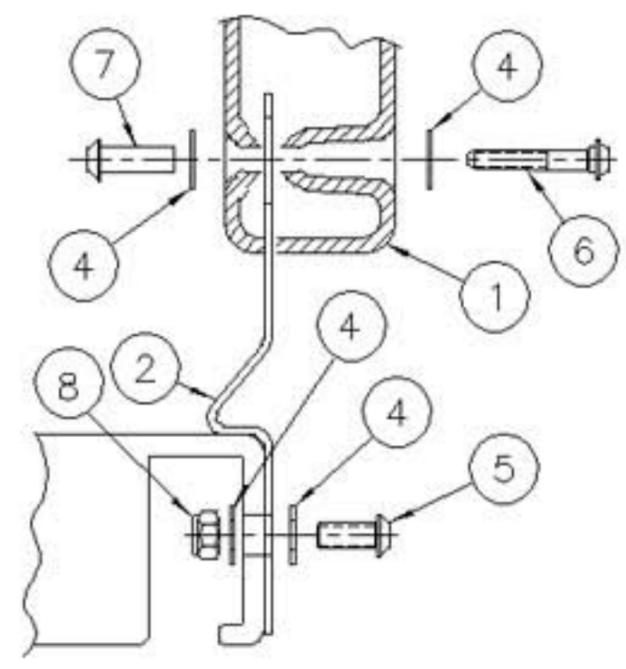


[NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS]

AUTHORIZED BY:  
*Joe Pritchett* 11JUN08



**DETAIL 2**  
Typ 2 Places



**DETAIL 1**  
Typ 2 Places

- ARCH BUBBLE PANEL  
200007112
- ARCH BUBBLE/MIRROR PANEL  
200007121
- ARCH MIRROR PANEL  
200007118
- ARCH WINDOW PANEL  
200007115
- ARCH GEAR PANEL  
200115328

Item	Code	Description	Qty.
1	-	PANEL ARCH DKMT	1
2	200117149	TAB F/PANEL MOUNTING F/KB BRN	2
3	-	KB PANEL CLAMP	2

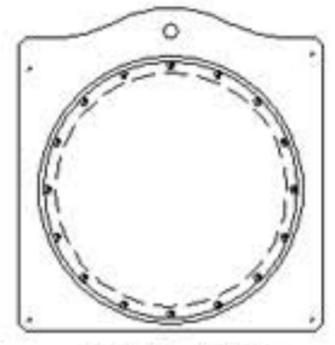
**HDWR BAG F/KB PANELS (MM) 200007614**

Item	Code	Description	Qty.
4	200002079	WASHER FLAT M11 23 X 12 X 1.6	12
5	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25 MM	2
6	200002142	BOLT M8 X 1.25 MALE 57.5 MM	4
7	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30 MM	4
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	2

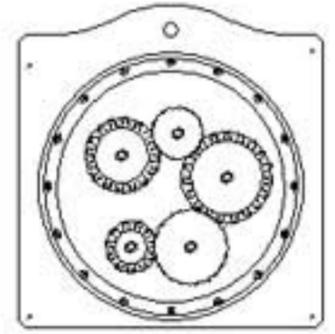
**Application**  
 -Maximum deck height before an enclosure must be present:  
 2 - 12 years = 508mm [20"]  
 5 - 12 years = 762mm [30"]  
 -Mirrors may become very hot in direct sunlight, shaded areas are recommended.

**Installation Instructions**

1. Slip deck mounting tabs into pre-cut slots on the underside of the panel and attach as shown in DETAIL 1. (NOTE: vertical slot in tab should be inserted into panel off centered to the outside.)
2. Loosely assemble panel clamps to the panel as shown in DETAIL 2.
3. Loosely attach deck mounting tabs to deck edge as shown in DETAIL 1.
4. Assemble the panel clamps to the posts. (Refer to front of manual for clamp installation detail.)
5. Tighten all hardware.

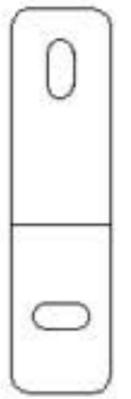


Bubble, Mirror, and Window Arch Panels



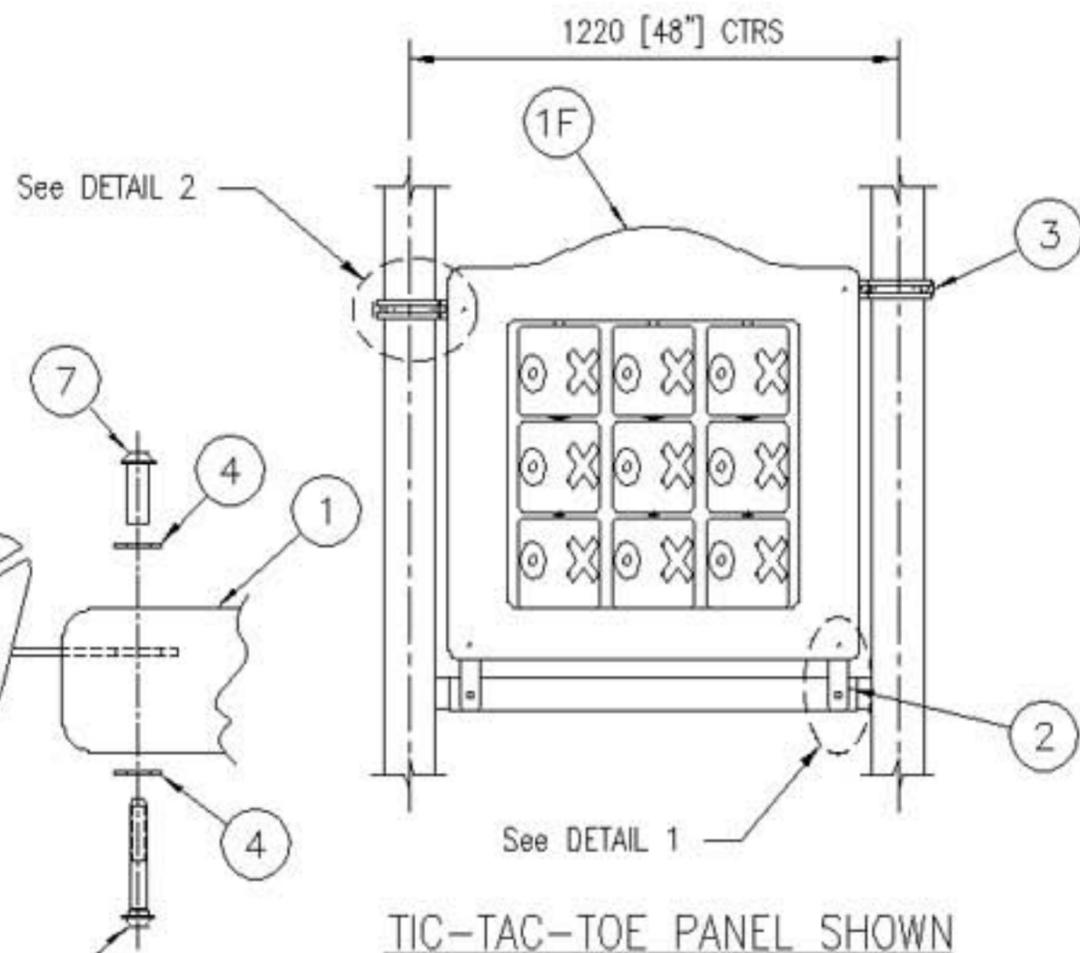
Gear Arch Panel

①

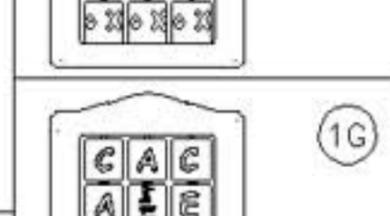
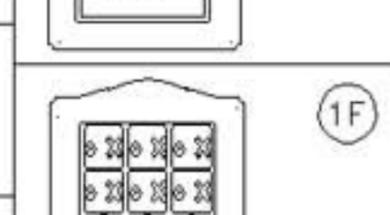
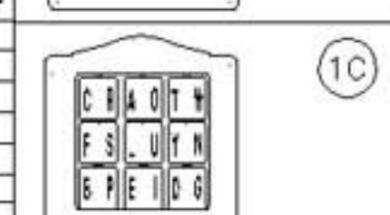
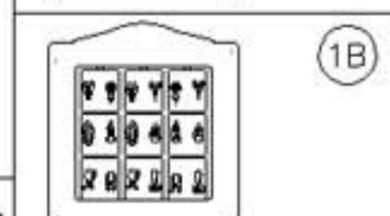
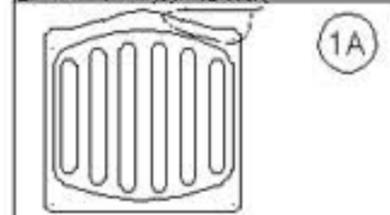


②

AUTHORIZED BY: 23APR14  
*Chris M. McConnaughey*



- TIC-TAC-TOE PANEL-----200007045
- SIGN PANEL----- (WILL VARY)
- SPELLING PANEL-----200007047
- McD HAPPY CYLINDERS-----200124380
- SAFETY PANEL-----200007049
- MATH PANEL-----200007046
- ANIMAL PANEL-----200007048
- McD CHARACTER CYLINDERS-----200124378
- PANEL ARCH FUN W/ WORDS-----200200305
- PANEL ARCH SEAL/OTR/WALRUS DKMT-----200203242
- PANEL ARCH WHALE/DOLP/PENG DKMT-----200203243



Item	Code	Description	Qty.
1A	-	PANEL ARCH SAFETY DKMT	1
1B	-	PANEL ARCH ANIMAL DKMT	1
1C	-	PANEL ARCH SPELL DKMT	1
1D	-	PANEL ARCH MATH DKMT	1
1E	-	PANEL ARCH SIGN DKMT	1
1F	-	PANEL ARCH TIC TAC TOE DKMT	1
1G	-	PANEL ARCH FUN W/ WORDS DKMT	1
1H	-	PANEL ARCH SEAL/OTR/WALRUS DKMT	1
1J	-	PANEL ARCH WHALE/DOLP/PENG DKMT	1
2	200117149	TAB F/PANEL MOUNTING F/KB BRN	2
3	-	KB PANEL CLAMP	2

**HDWR BAG F/KB PANELS (MM)  
200007614**

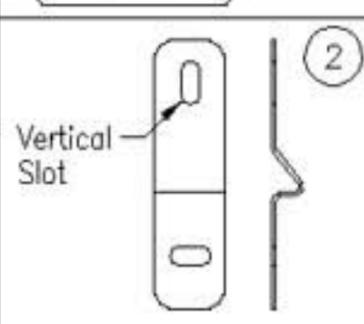
Item	Code	Description	Qty.
4	200002079	WASHER FLAT M11 23 X 12 X 1.6	12
5	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25 MM	2
6	200002142	BOLT M8 X 1.25 MALE 57.5 MM	4
7	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30 MM	4
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	2

**Application**

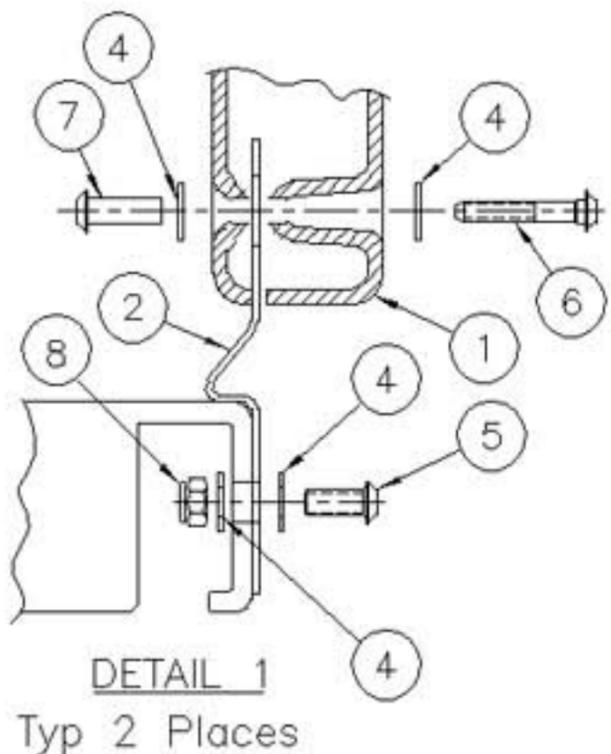
- Maximum deck height before an enclosure must be present:
- 2 - 12 years = 508mm [20"]
- 5 - 12 years = 762mm [30"]

**Installation Instructions**

1. Slip deck mounting tabs into pre-cut slot on the underside of the panel and attach as shown in DETAIL 1. (NOTE: vertical slot in tab should be inserted into panel off centered to the outside.)
2. Loosely assemble panel clamps to the panel as shown in DETAIL 2.
3. Loosely attach deck mounting tabs to deck edge as shown in DETAIL 1.
4. Assemble the panel clamps to the post. (Refer to front of manual for clamp installation detail.)
5. Tighten all hardware.

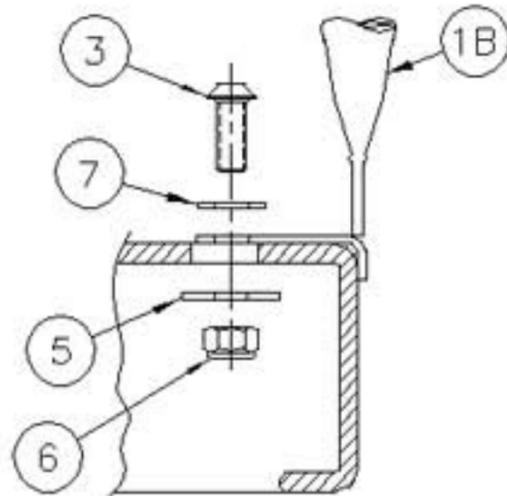


DETAIL 2  
Typ 2 Places

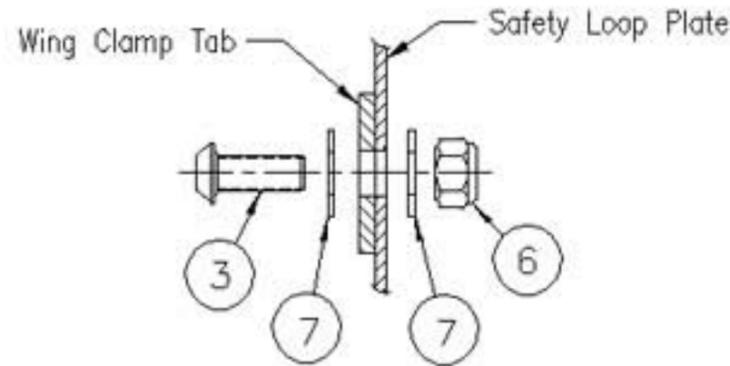


DETAIL 1  
Typ 2 Places

AUTHORIZED BY:  
*Joe Fritchett* 11JUN08

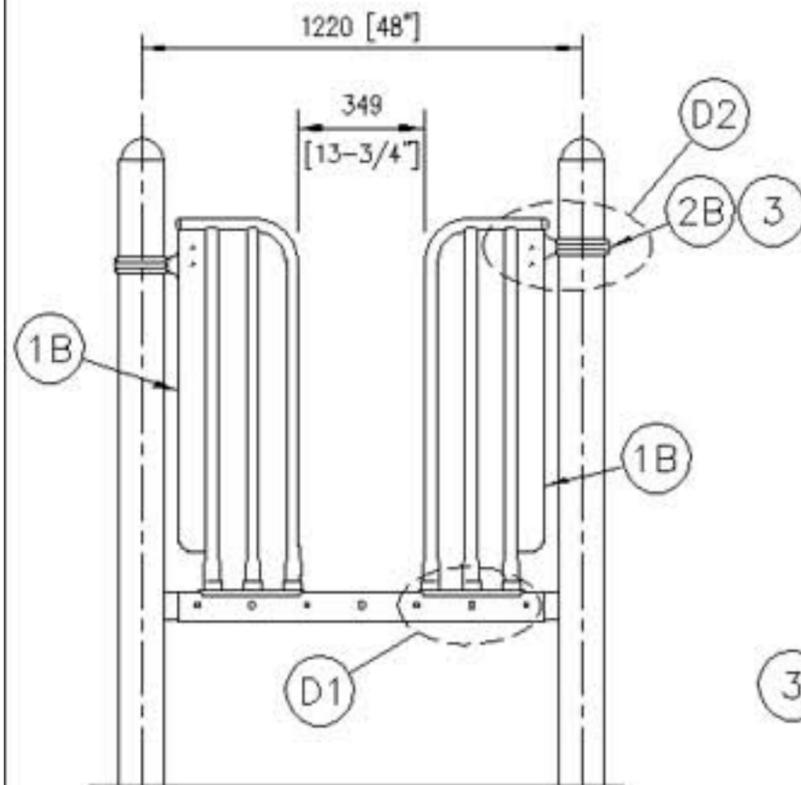
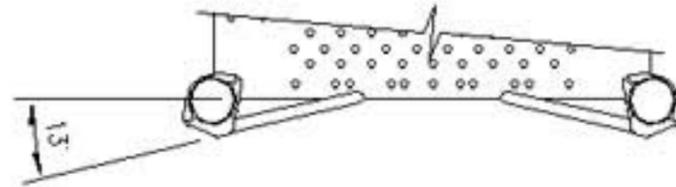
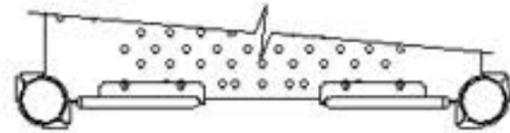


**DETAIL 1**  
Typ 4 Places

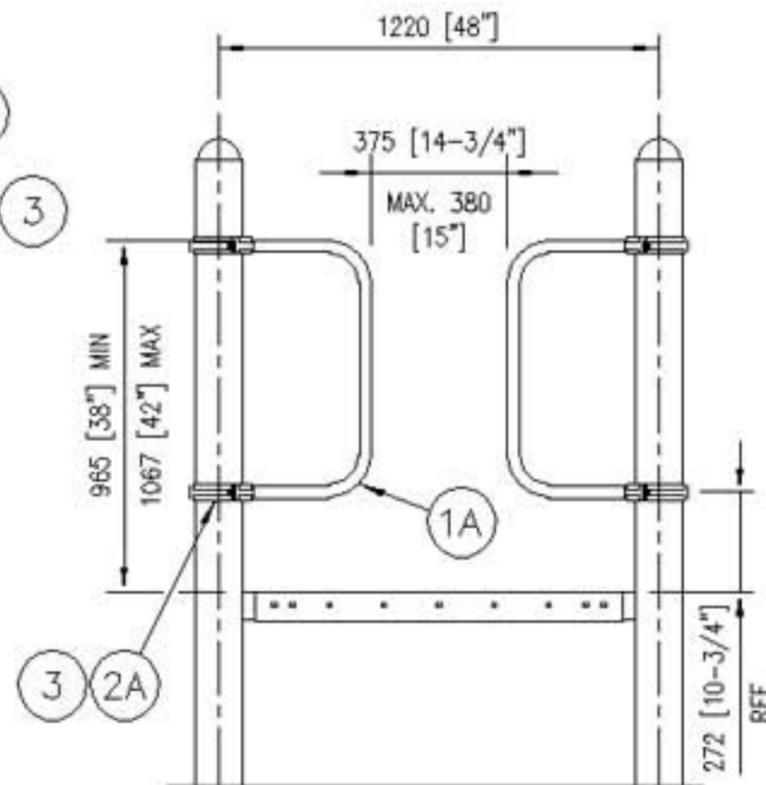


**DETAIL 2**  
Typ 2 Places

**NOTE:** Wing clamp tabs are installed on deck side of safety loops.



**Safety Loops**



**Hand Loops**

**HAND LOOP ASSEMBLY**  
200013920

Item	Code	Description	Qty.
1A	-	LOOP HAND HOLD F/KB	2
2A	-	KB HOODED RAIL CLAMP	4

**SAFETY LOOP ASSEMBLY**  
200013924

Item	Code	Description	Qty.
1B	-	SAFETY LOOP PAIR F/KB	1
2B	-	KB WING CLAMP	2

**HDWR BAG F/KB ARCH SAFETY RAIL/MESH PNL**  
200007712

Item	Code	Description	Qty.
4	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	6
5	200002096	WASHER FLAT M10 34 OD X 11ID X 3MM THK	4
6	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	6
7	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	8

**Application**

- For All Age Groups
- Hand Loops can be mounted to either side of the post, Safety Loops cannot.

**Installation Instructions**

**HAND LOOPS**

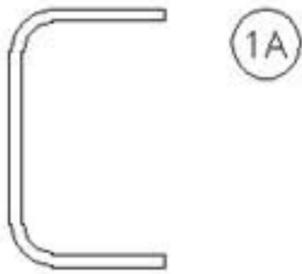
1. Determine which side of post hand loops are to be mounted on.
2. Loosely assembly Hooded Rail Clamps to posts (refer to the front of the manual for clamp installation detail).
3. Slide the hand loops into the clamps.

4. Position the hand loop to the proper height (minimum of 965mm [38"] above the deck, maximum of 1067 [42"]).

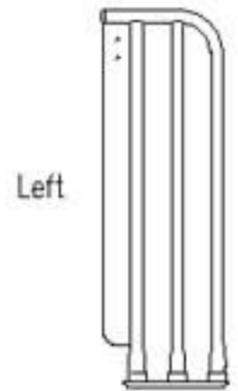
5. Tighten all hardware and install clamp drive pins.

**SAFETY LOOPS**

1. Attach the enclosures to the deck as shown in DETAIL 1.
2. Loosely attach wing clamps to the posts (refer to front of manual for clamp installation instruction).
3. Attach the loop plates to the wing clamp tabs as shown in DETAIL 2. Note high side/low side position of clamps. Wing clamp tabs are installed on deck side of safety loops.
4. Tighten all hardware and install clamp drive pins.

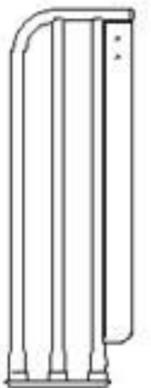


1A



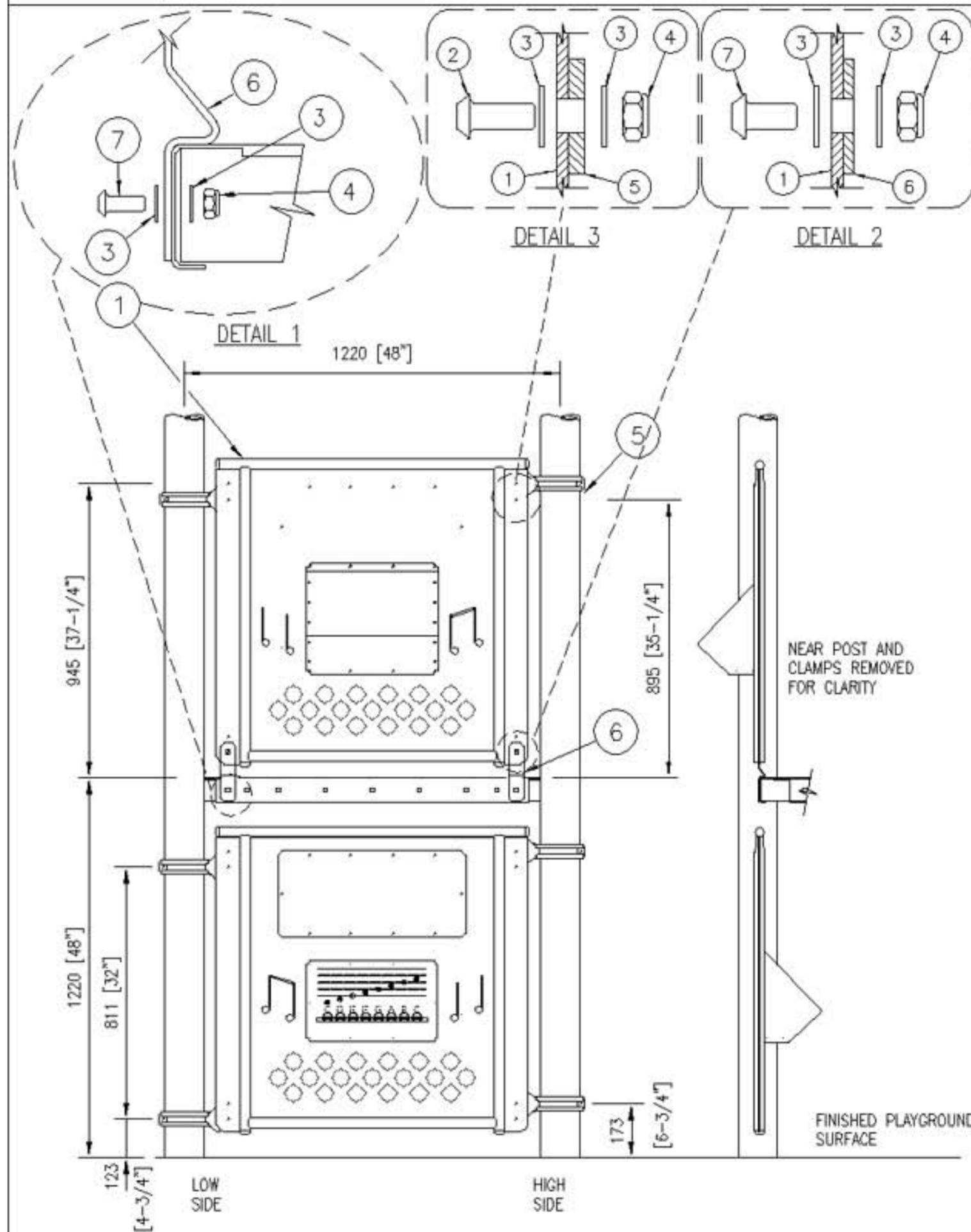
Left

1B



Right

AUTHORIZED BY: *Joe Mitchell* 11JUN08



## MELODY MAKER PANEL ABOVE DECK 200107428

Item	Code	Description	Qty.
1	-	KBP MELODY MAKER PANEL	1
5	-	KBP WING CLAMP	2
6	200117149	TAB F/PANEL MOUNTING F/KB BRN	2

## HDWR BAG F/KBP DK.MT STEEL PANELS 200109839

Item	Code	Description	Qty.
2	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25	4
3	200002079	WASHER FLAT M11 23 X 12 X 1.6	12
4	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	6
7	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20	2

## MELODY MAKER PANEL BELOW DECK 200107429

Item	Code	Description	Qty.
1	-	KBP MELODY MAKER PANEL	1
5	-	KBP WING CLAMP	4

## HDWR BAG F/KBP PT.MT STEEL PANELS 200109860

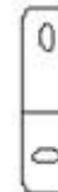
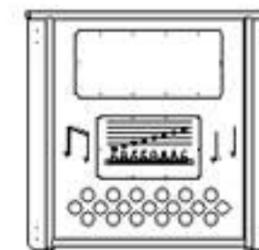
Item	Code	Description	Qty.
2	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25	4
3	200002079	WASHER FLAT M11 23 X 12 X 1.6	8
4	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	4

### Application

- For ages 2-12.
- Below deck installation requires a minimum deck height of 1220 mm [48"].
- Avoid entrapment gaps between 89 mm [3-1/2"] and 229 mm [9"] when installing below deck.
- It is permissible to deviate from the standard hi/lo clamp configuration to avoid clamp conflict.

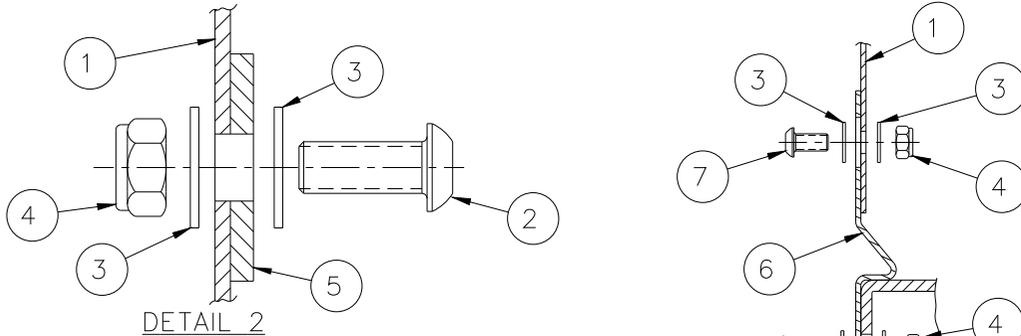
### Installation Instructions

1. Loosely attach panel clamps to posts. Note high side/low side clamps. Refer to the front of the manual for clamp detail.
2. Attach tab to deck (above deck installation) on the outer holes of the deck edge as shown in DETAIL 1. Note slot orientation.
3. Attach the panel to the clamps and tabs as shown in DETAILS 2 & 3.
4. Make sure panel is level and tighten all hardware.

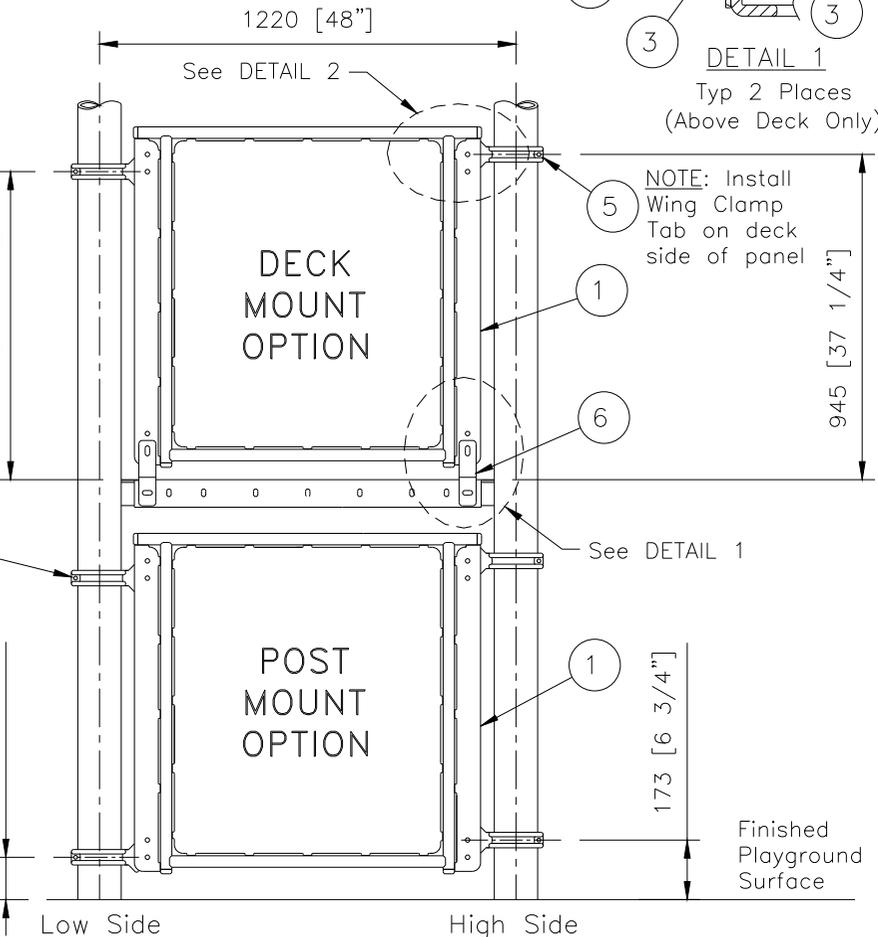


1

6



Typ 2 Places (Above Deck)  
Typ 4 Places (Below Deck)



**NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS**

KB PANEL "CUSTOM" DKMT 200200144

Item	Code	Description	Qty.
1	-	PANEL, STEEL F/KB	1
5	-	KBP WING CLAMP	2
6	200117149	TAB F/PANEL MOUNTING F/KB BRN	2

DECK MOUNT HARDWARE BAG 200109839

Item	Code	Description	Qty.
2	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25	4
3	200002079	WASHER FLAT M11 23 X 12 X 1.6	12
4	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	6
7	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20	2

KB PANEL "CUSTOM" PTMT 200200145

Item	Code	Description	Qty.
1	-	PANEL, STEEL F/KB	1
5	-	KBP WING CLAMP	4

POST MOUNT HARDWARE BAG 200109860

Item	Code	Description	Qty.
2	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25	4
3	200002079	WASHER FLAT M11 23 X 12 X 1.6	8
4	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	4

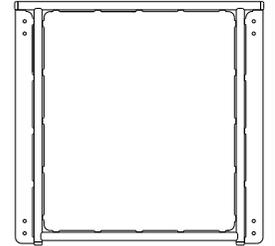
Application

- For ages 2-12 years.
- Below deck installation requires a minimum deck height of 1220mm [48"].
- Avoid entrapment gaps between 89mm [3-1/2"] and 229mm [9"] when installing below deck.
- It is permissible to deviate from the standard hi/lo clamp configuration to avoid clamp conflict.

Installation Instructions

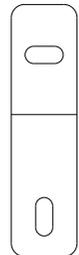
- Loosely attach panel clamps to posts. Note high side/low side clamps. Refer to the front of the manual for clamp detail.
- Attach tab to deck (above deck installation) on the outer holes of the deck edge as shown in DETAIL 1. Note slot orientation.
- Attach the panel to the clamps and tabs as shown in DETAILS 1 & 2. Refer to Aluminum Rail Mount Steering Wheel Installation Instruction I900056 if installing a Vehicle Panel (NOTE: Install Aluminum Steering Wheel on side opposite to Logo Plate).
- Make sure panel is level and tighten all hardware.

1

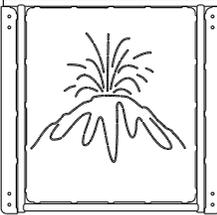
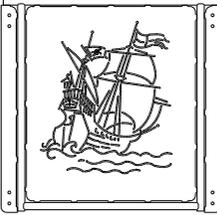
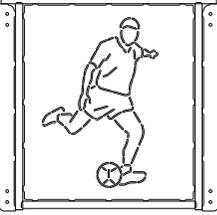
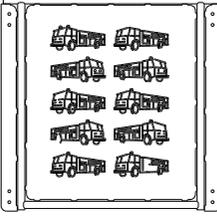
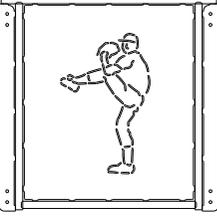
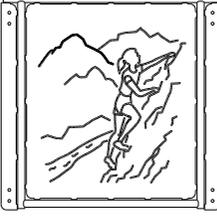
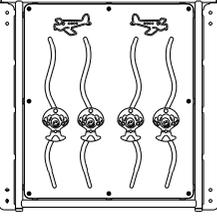
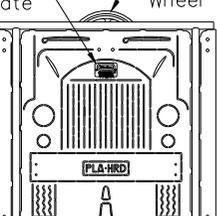


Refer to Sheet 2 for Additional Panel Options

6



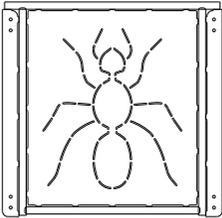
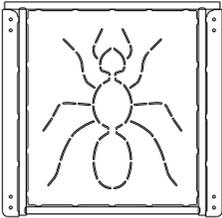
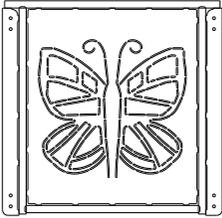
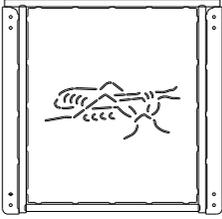
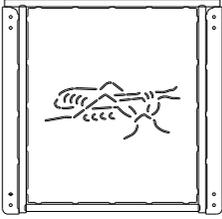
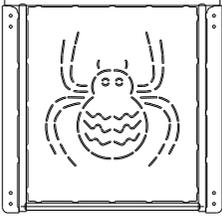
AUTHORIZED BY:  
*Chris M. Anderson* 02JUN08

	KMAT #	Description			
	200200004	PANEL "VOLCANO" F/KB DKMT			
	200200013	PANEL "VOLCANO" F/KB PTMT			
	KMAT #	Description		KMAT #	Description
	200200003	PANEL "SHIP" F/KB DKMT		200201238	PANEL "SOCCAR GOAL" F/KB DKMT
	200200012	PANEL "SHIP" F/KB PTMT		200201239	KB PANEL "SOCCAR GOAL" PTMT
	KMAT #	Description		KMAT #	Description
	200200001	PANEL "FIRE TRUCK" F/KB DKMT		200201230	PANEL "PITCHER" F/KB DKMT
	200200010	PANEL "FIRE TRUCK" F/KB PTMT		200201231	KB PANEL "PITCHER" PTMT
	KMAT #	Description		KMAT #	Description
	200200000	PANEL "MOUNTAIN CLIMBER" F/KB DKMT		200200237	PANEL "PARACHUTE GUY" F/KB DKMT
	200200009	PANEL "MOUNTAIN CLIMBER" F/KB PTMT		200200238	PANEL "PARACHUTE GUY" F/KB PTMT
	KMAT #	Description		KMAT #	Description
	200200005	PANEL "PIRATE" F/KB DKMT		200200250	DRIVING PANEL KB DKMT
	200200014	PANEL "PIRATE" F/KB PTMT		200200251	DRIVING PANEL KB PTMT
				<p>NOTE: Install Aluminum Steering Wheel on side opposite to Logo Plate</p>	

AUTHORIZED BY:  
*Chris M. Anderson* 02JUN08

	KMAT #	Description			
	200201222	PANEL "BACKBOARD" F/KB DKMT			
	200201223	KB PANEL "BACKBOARD" PTMT			
	KMAT #	Description		KMAT #	Description
	200201228	PANEL "BATTER" F/KB DKMT		200201212	PANEL "LADYBUG" F/KB DKMT
	200201229	KB PANEL "BATTER" PTMT		200201213	PANEL "LADYBUG" F/KB PTMT
	KMAT #	Description		KMAT #	Description
	200201234	PANEL "QUARTER BACK" F/KB DKMT		200201214	PANEL "DRAGONFLY" F/KB DKMT
	200201235	KB PANEL "QUARTER BACK" PTMT		200201215	PANEL "DRAGONFLY" F/KB PTMT
	KMAT #	Description		KMAT #	Description
	200201236	PANEL "RUNNING BACK" F/KB DKMT		200201226	PANEL "BALL DIAMOND" F/KB DKMT
	200201237	KB PANEL "RUNNING BACK" PTMT		200201227	KB PANEL "BALL DIAMOND" PTMT
	KMAT #	Description		KMAT #	Description
	200201224	PANEL "REFEREE" F/KB DKMT		200201232	PANEL "BAT & BALL" F/KB DKMT
	200201225	KB PANEL "REFEREE" PTMT		200201233	KB PANEL "BAT & BALL" PTMT

AUTHORIZED BY:  
*Chris M. Anderson* 02JUN08

	KMAT #	Description
	200201216	PANEL "ANT" F/KB DKMT
	200201217	PANEL "ANT" F/KB PTMT
	KMAT #	Description
	200201276	PANEL "BUTTERFLY" F/KB DKMT
	200201277	PANEL "BUTTERFLY" F/KB PTMT
	KMAT #	Description
	200201220	PANEL "GRASSHOPPER" F/KB DKMT
	200201221	PANEL "GRASSHOPPER" F/KB PTMT
	KMAT #	Description
	200201218	PANEL "SPIDER" F/KB DKMT
	200201219	PANEL "SPIDER" F/KB PTMT

AUTHORIZED BY:  
*Joe Bitchett* 11JUN08

### KB TELESCOPE PANEL (DKMT) 200200663

Item	Code	Description	Qty.
1	-	PANEL KB TELESCOPE	1
2	-	ASSY TELESCOPE	1
5	-	KB WING CLAMP ASSEMBLY	2
9	-	TAB F/PANEL MOUNTING F/KB	2

### HDWR BAG F/KB TELESCOPE PNL (DKMT) 200156059

Item	Code	Description	Qty.
3	200001954	BARREL NUT M10 X 1.50 (12.70 DIA X 32MM)	4
4	200099546	ROD THREADED M10 X 58MM ZN	2
6	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	2
7	200002079	WASHER FLAT M11 23 X 12 X 1.6	10
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	6
10	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20	4

### KB TELESCOPE PANEL (PTMT) 200200664

Item	Code	Description	Qty.
1	-	PANEL KB TELESCOPE	1
2	-	ASSY TELESCOPE	1
5	-	KB WING CLAMP ASSEMBLY	4

### HDWR BAG F/KB TELESCOPE PNL (PTMT) 200156060

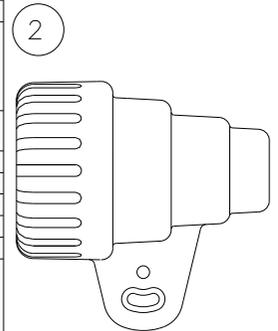
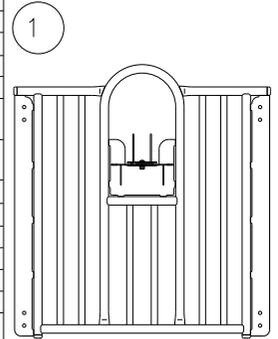
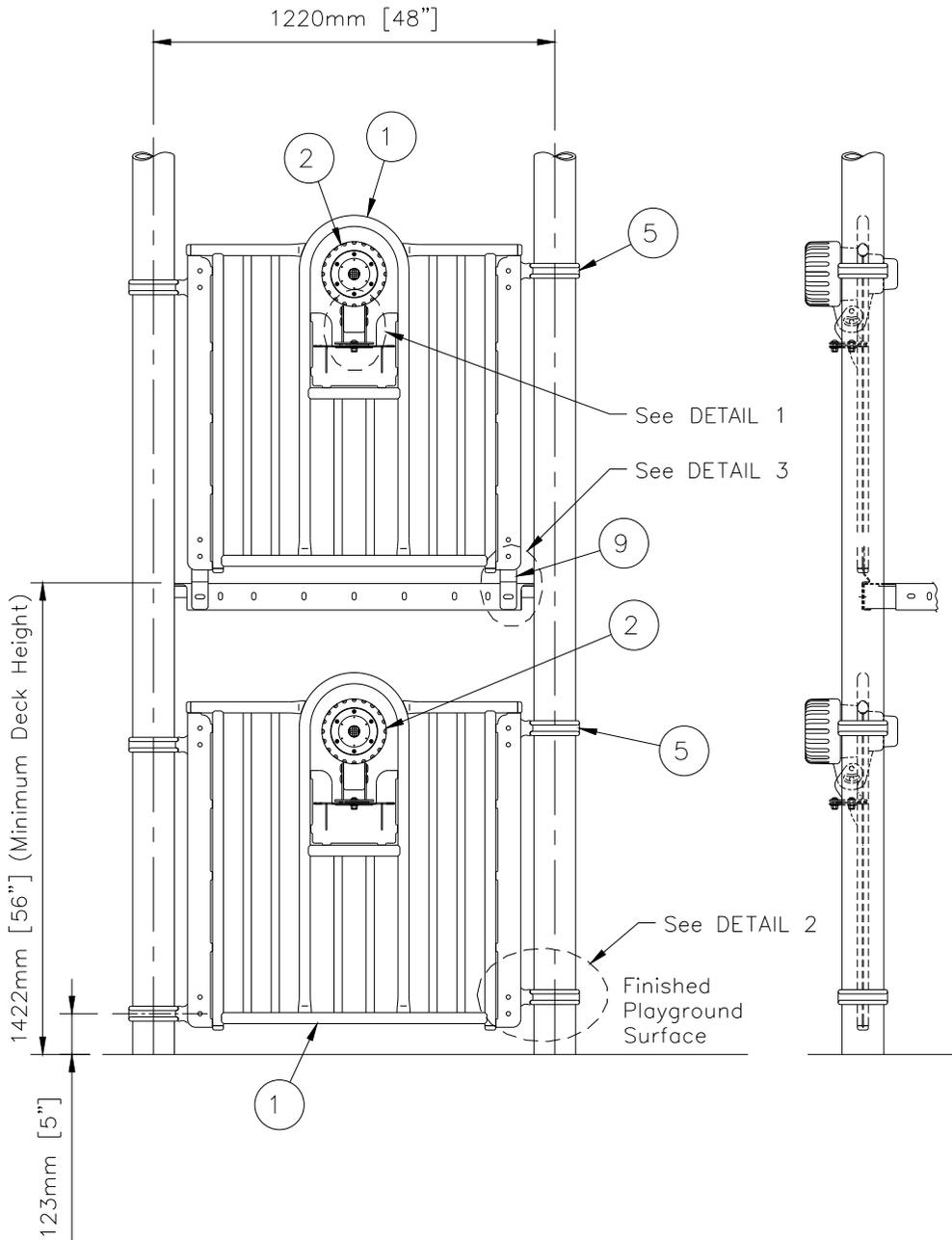
Item	Code	Description	Qty.
3	200001954	BARREL NUT M10 X 1.50 (12.70 DIA X 32MM)	4
4	200099546	ROD THREADED M10 X 58MM ZN	2
7	200002079	WASHER FLAT M11 23 X 12 X 1.6	4
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	4
10	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20	4

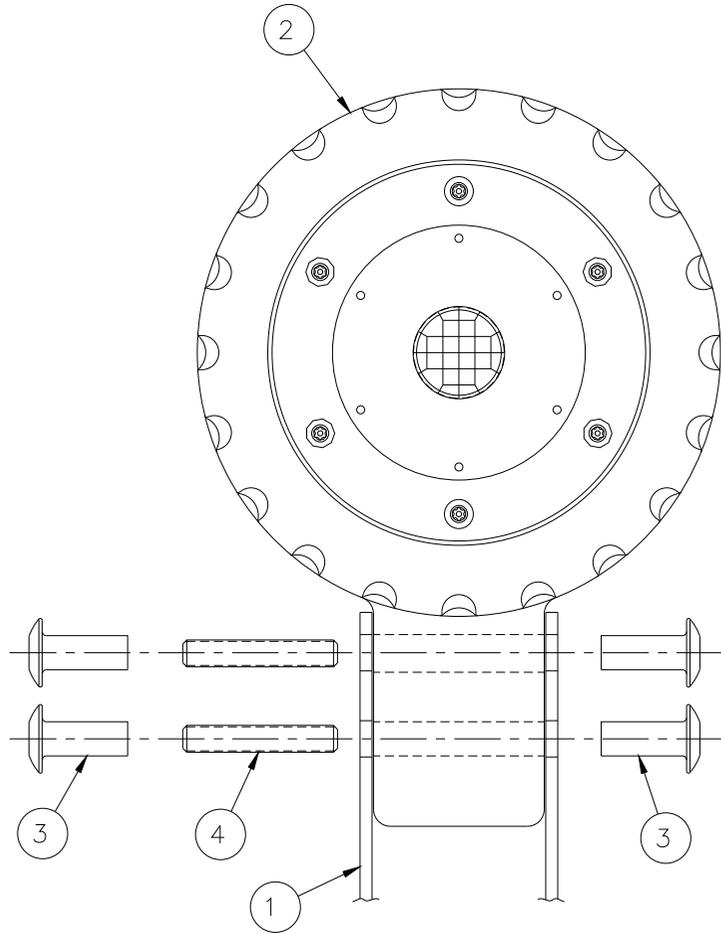
**Application**

- Below deck installation requires a minimum deck height of 1422mm [ 56" ].
- Avoid entrapment gaps between 89mm [ 3-½ ] and 229mm [ 9" ] when installing below deck.
- It is permissible to deviate from the standard hi/lo clamp configuration to avoid clamp conflict.

**Installation Instructions**

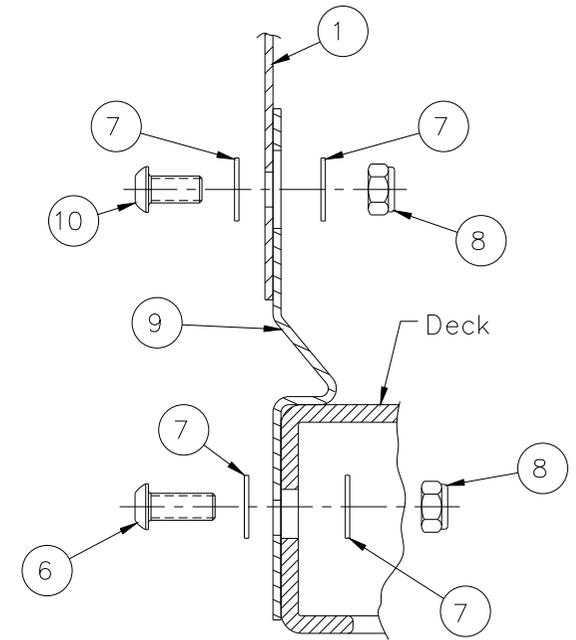
1. Loosely attach panel clamps to posts. Note high side/lo side clamps. Refer to the front of the manual for clamp detail.
2. Attach tab to deck (above deck installation) on the outer holes of the deck edge as shown in DETAIL 3. Note slot orientation.
3. Attach the panel to the clamps and tabs as shown in DETAILS 2 and 3.
4. Install Telescope (item 2) to panel as shown in DETAIL 1.
5. Make sure panel is level and tighten all hardware.



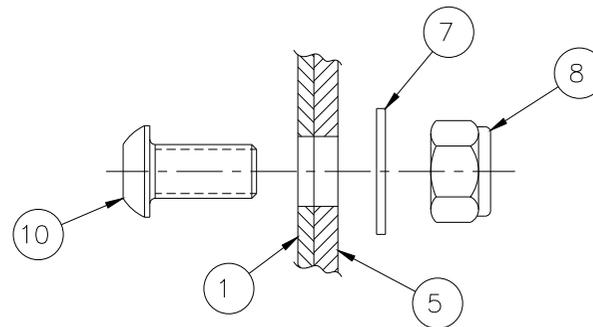


DETAIL 1

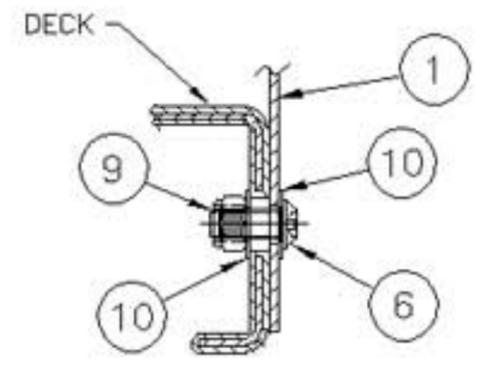
(Do Not overtighten bolts and bind up plastic)



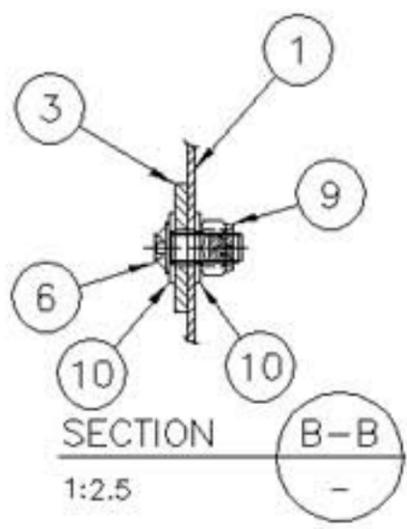
DETAIL 3  
Typ 2 Places  
(Above Deck Only)



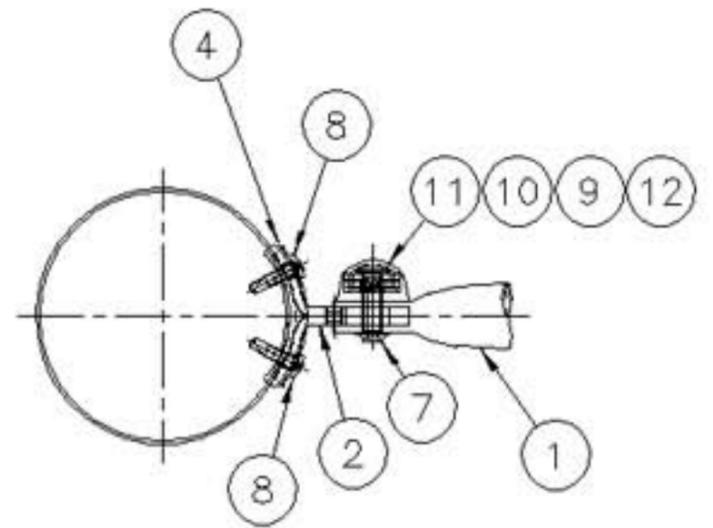
DETAIL 2  
Typ 2 Places (Above Deck)  
Typ 4 Places (Below Deck)



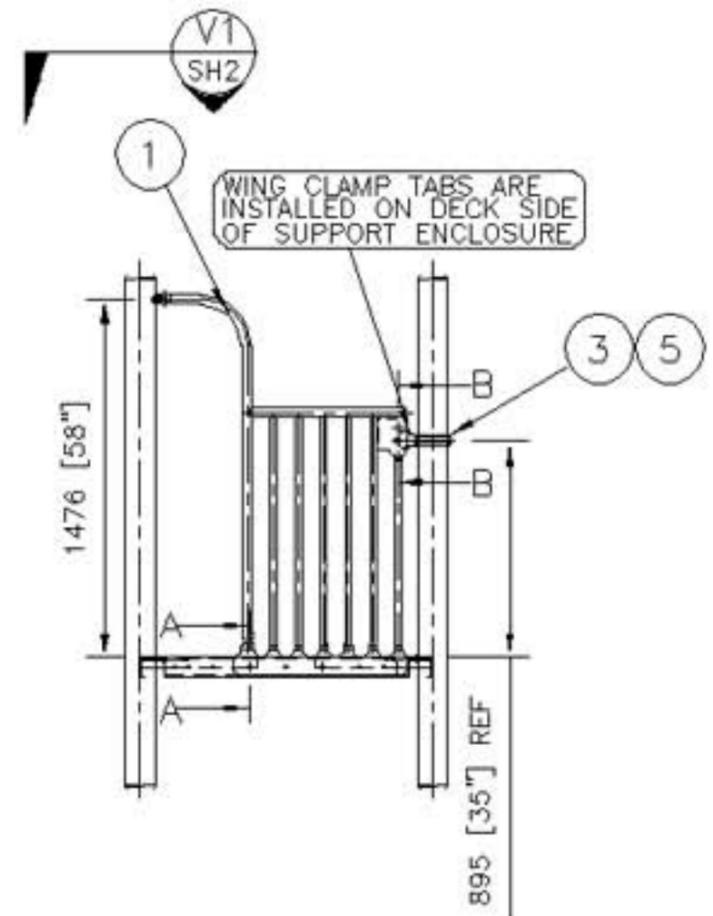
**SECTION A-A**  
1:2.5  
TYP 3 PL



**SECTION B-B**  
1:2.5



**VIEW V1**  
1:2.5  
CLAMP AND POST CLIMBER  
REMOVED FOR CLARITY



**KB OFFSET CLIMBING ENCLOSURE - 200201299**

Item	Code	Description	Qty.
1	-	ENCL, F/KB OFFSET CLIMB	1
2	-	TAB RAIL 33.4 F/PB (ZINC DI-CHROMATE).	2
3	-	WING CLAMP ASSEMBLY	1

**HARDWARE BAG F/KB OFFSET CLIMBING ENCLOSURE 200167692**

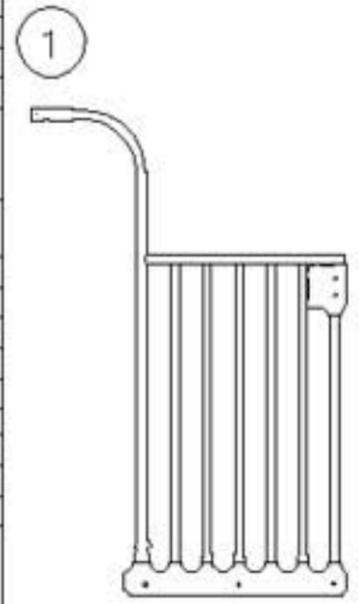
Item	Code	Description	Qty.
4	200058372	GASKET F/PB TABS (SMALL)	1
5	200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	2
6	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	4
7	200002030	SCREW MACH BUTTONHEAD M10 X 1.50 X 30MM	1
8	300002750	SCREW T-27 TORX ROUND WASHER HD	2
9	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	5
10	200002079	WASHER FLAT M11 23 X 12 X 1.6	9
11	200002340	CAP HDWR BASE	1
12	200002311	CAP HDWR COVER	1

**Application**  
-

**Installation Instructions**

1. Install enclosure as shown in VIEW-1 and SECTIONS A-A and B-B.
2. Tighten all hardware.

AUTHORIZED BY:  
*Eric L. Cloutier* 05NOV08

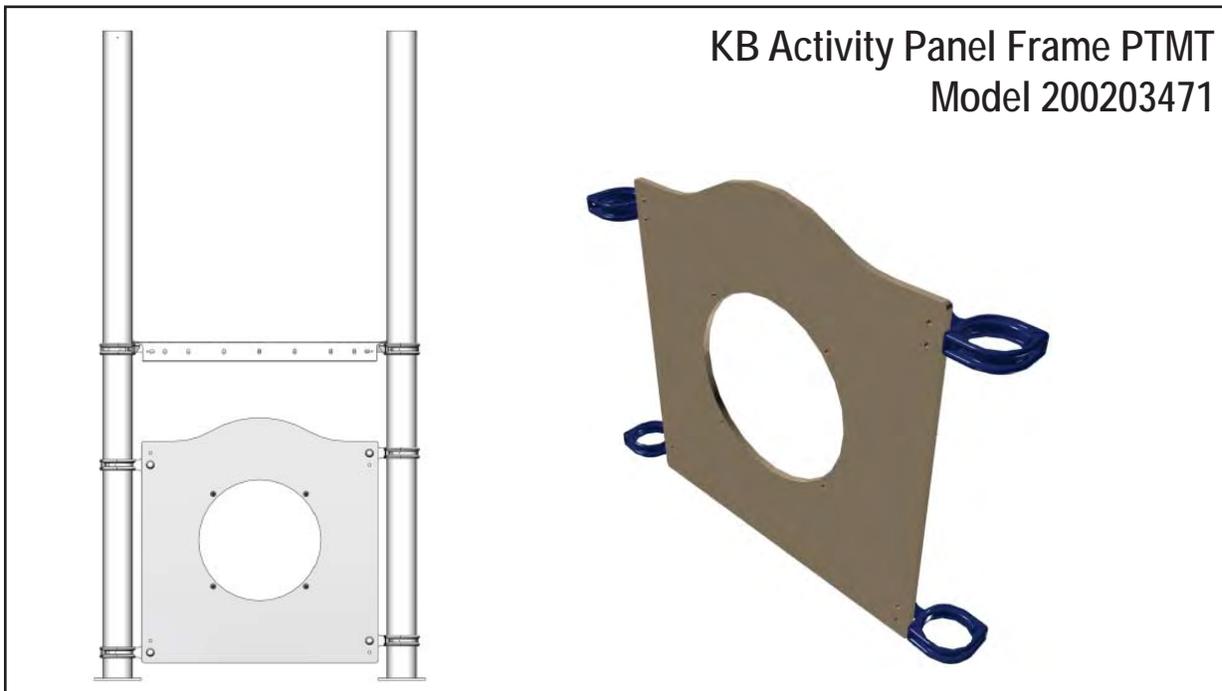
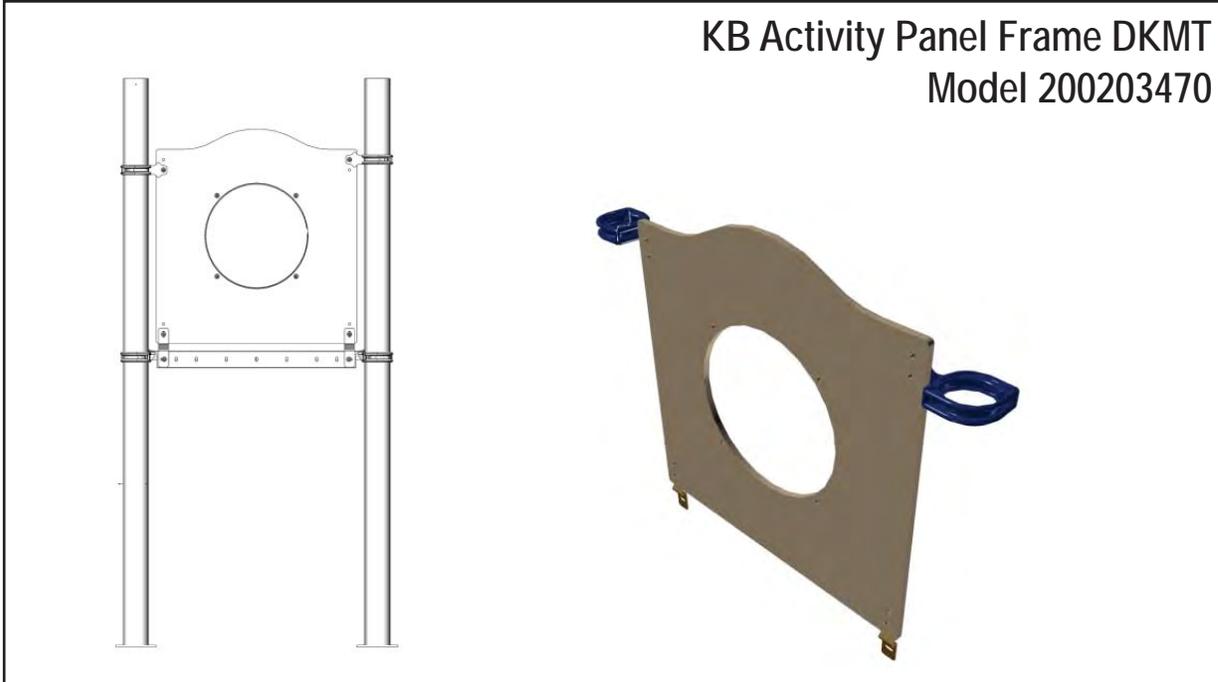


(NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS)



## KB ACTIVITY PANEL FRAME DKMT, PTMT

**IMPORTANT!** Prior to installation of any components refer to the front of the Kid Builders Playground manual. The Kid Builders Playground *Installation Manual* will provide important tips pertaining to site requirements, footings, hardware and other necessary information vital to the success of your installation.



KB ACTIVITY PANEL FRAME DKMT, PTMT

KB600049

KB ACTIVITY PANEL FRAME DKMT, PTMT



## KB ACTIVITY PANEL FRAME DKMT, PTMT

200203470 KB Activity Panel Frame DKMT			
ITEM	CODE	DESCRIPTION	QTY
1	923424P	KB ACTIVITY PANEL FRAME	1
2	909257P	CLAMP WING F/KB	2
3	910452P	TAB F/PANEL MOUNTING F/KB	2
4	910918P	CAP HARDWARE BASE	4
5	910917P	CAP HARDWARE COVER	4
6	HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS 1/1	1
7	HW923327-1	HRDW PKG F/PLAY PANEL KB S1/1	1
	<i>HW2CLMPSET-1</i>	<i>HRDW PKG F/2SETS O/CLAMPS 1/1</i>	
8	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	4
9	200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	4
10	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	4
	<i>HW923327-1</i>	<i>HRDW PKG F/PLAY PANEL KB S1/1</i>	
11	200002133	BOLT M8 X 1.25 MALE 27.5MM	4
12	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	12
13	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30MM	4
14	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	2
15	200001945	NUT LOCKHEX NYLON INSERTED M10 X 1.5	2
200203471 KB Activity Panel Frame PTMT			
ITEM	CODE	DESCRIPTION	QTY
1	923424P	KB ACTIVITY PANEL FRAME	1
2	909257P	CLAMP WING F/KB	4
3	910918P	CAP HARDWARE BASE	4
4	910917P	CAP HARDWARE COVER	4
5	HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS	2
6	HW923326-1	HRDW PKG F/PLAY PANEL LT	1
	<i>HW2CLMPSET-1</i>	<i>HRDW PKG F/2SETS O/CLAMPS</i>	
7	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	4
8	200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	4
9	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	4

KB600049



## KB ACTIVITY PANEL FRAME DKMT, PTMT

200203471 KB Activity Panel Frame PTMT cont.			
ITEM	CODE	DESCRIPTION	QTY
	<i>HW923326-1</i>	<i>HRDW PKG F/PLAY PANEL LT</i>	
10	200002133	BOLT M8 X 1.25 MALE 27.5MM	4
11	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	8
12	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30MM	4

Activity Panel Inserts				
ITEM	CODE	DESCRIPTION	HRDW PKG	QTY
1	200203474	HYPNOTIZE INSERT	<i>HW923326-1</i>	1
2	200203475	FUNHOUSE INSERT	<i>HW923326-1</i>	1
3	200203476	VERY BURIED INSERT	<i>HW923326-1</i>	1
4	200203477	A-MAZE-ING INSERT	<i>HW923326-1</i>	1
5	200203478	FOUR-THE-WIN INSERT	<i>HW923326-1</i>	1
6	200203479	MAGICAL MUSIC INSERT	<i>HW923326-1</i>	1
7	200203480	SLIDE & SOLVE INSERT	<i>HW923326-1</i>	1

THIS SPACE INTENTIONALLY LEFT BLANK

KB ACTIVITY PANEL FRAME DKMT, PTMT

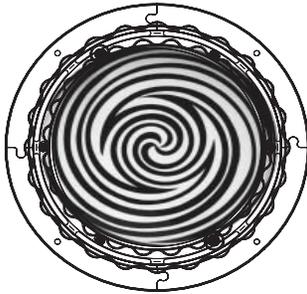
KB600049



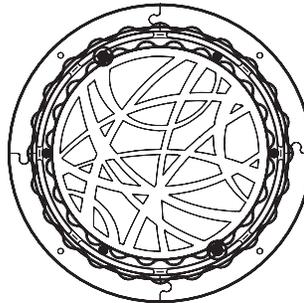
# KB ACTIVITY PANEL FRAME DKMT, PTMT

## INSERT PANEL OPTIONS

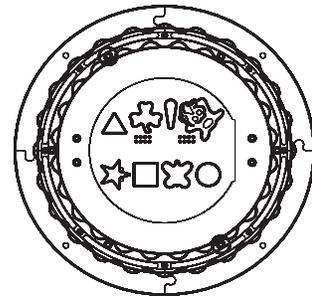
**PN 200203474**  
**Hypnotize Insert**



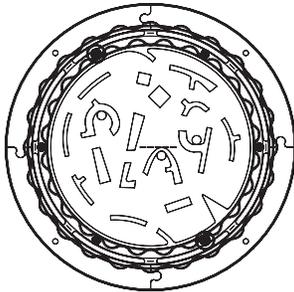
**PN 200203475**  
**Funhouse Insert**



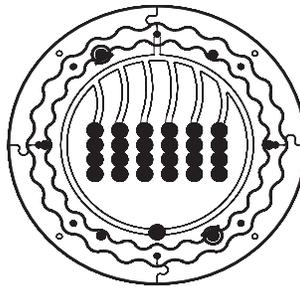
**PN 200203476**  
**Very Buried Insert**



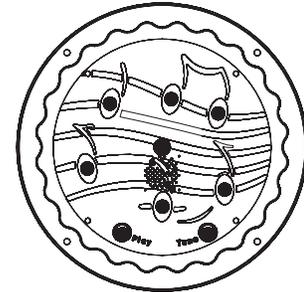
**PN 200203477**  
**A-maze-ing Insert**



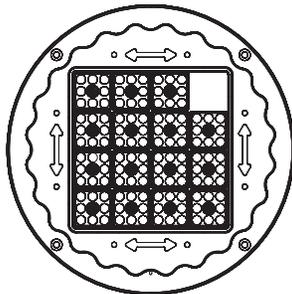
**PN 200203478**  
**Four-the-Win Insert**



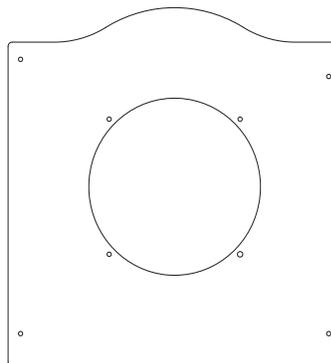
**PN 200203479**  
**Magical Music Insert**



**PN 200203480**  
**Slide & Solve Insert**



**PN 923424P**  
**Activity Panel Frame**





## KB ACTIVITY PANEL FRAME DKMT, PTMT

### STEP 1 DECK AND POST FOOTINGS

1a. Deck and posts are in place per *Footing Layout* and Construction Drawings.

1b. Installation Options:

- Above deck
- Panel is below 1422mm [56"] deck
- Panel is below 1625mm [64"] deck, or higher
- Freestanding

*Note: Freestanding option uses same BOM as Model 200203471.*

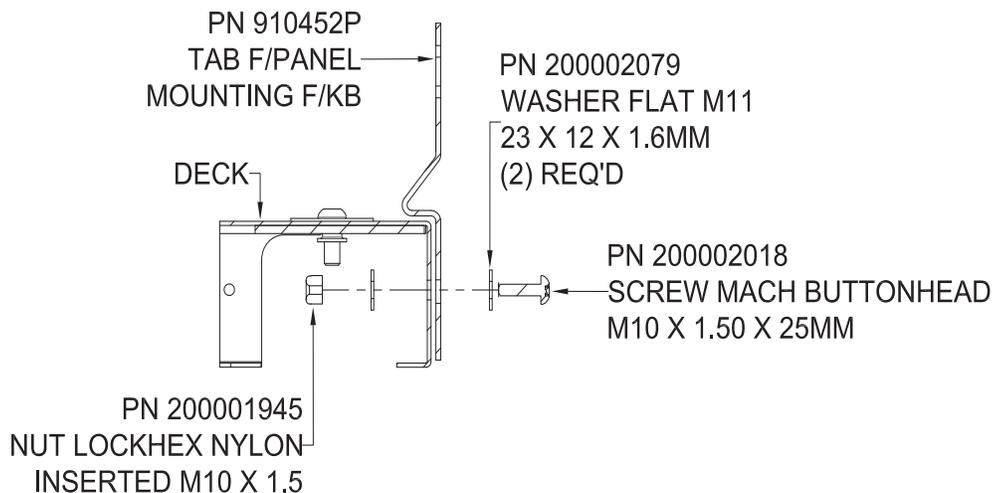
A. ABOVE DECK INSTALLATION:

### STEP 2 DRILL EXCESS PVC FROM DECK MATING BOLT HOLES

2a. Use drill to remove excess PVC from holes in the deck for the mounting tabs.

### STEP 3 ATTACH TABS TO DECK

3a. Locate tabs and attach to deck side for panel placement as shown. Total of two (2) locations.

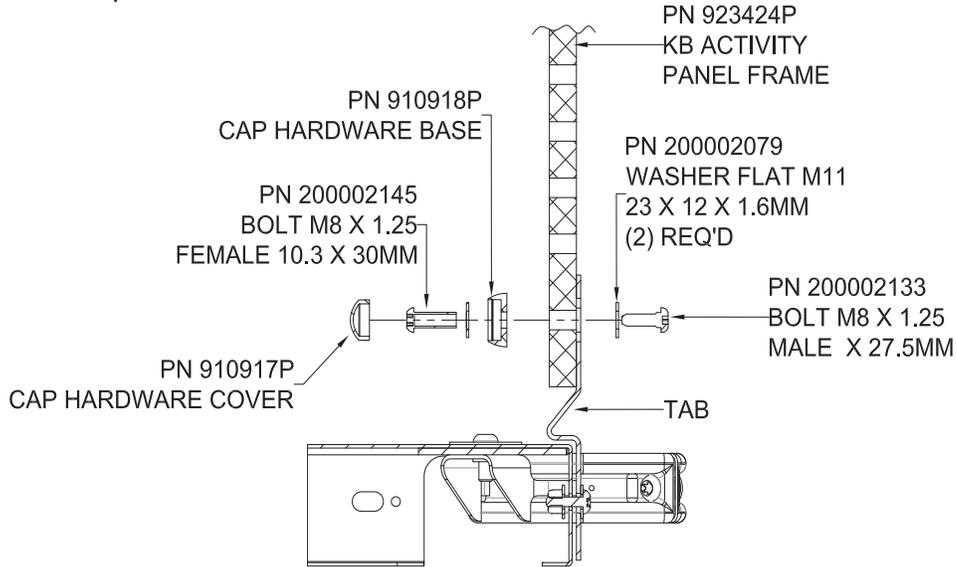




# KB ACTIVITY PANEL FRAME DKMT, PTMT

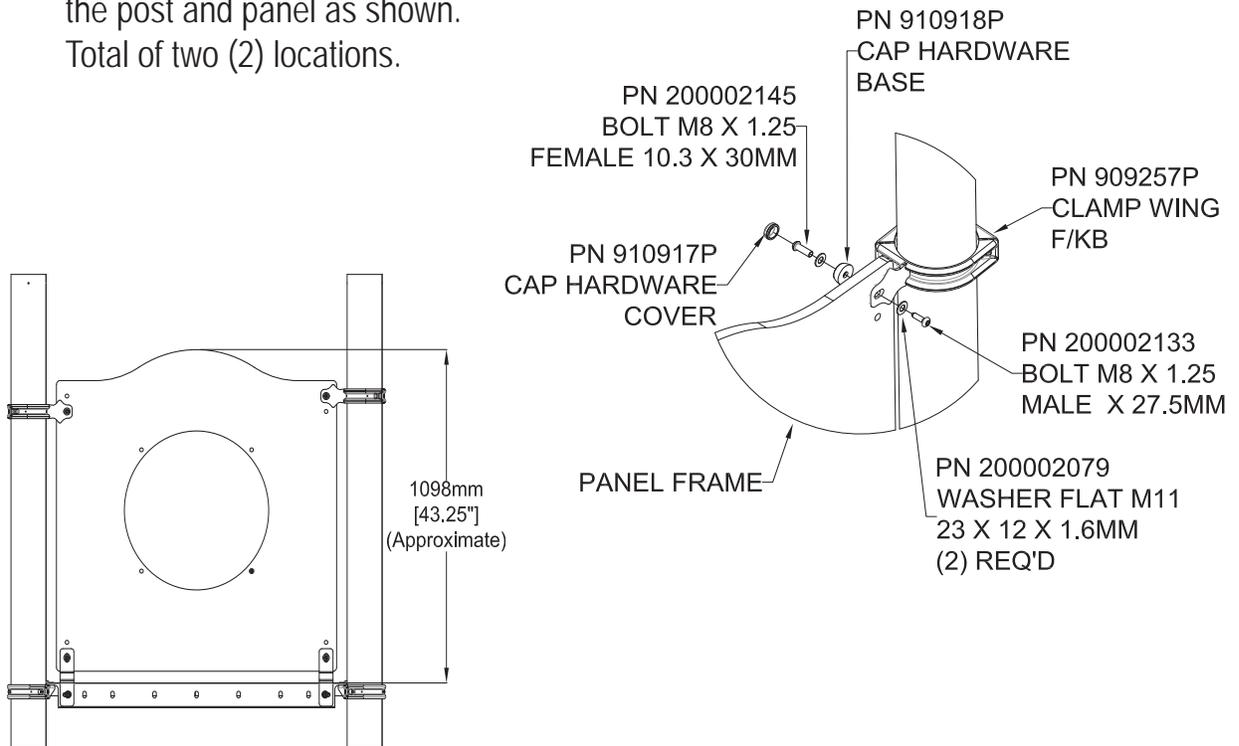
## STEP 4 ATTACH PANEL TO TABS

4a. Locate the panel and attach to the tabs on the deck as shown. Total of two (2) locations.



## STEP 5 ATTACH POST CLAMP TO POST AND PANEL

5a. Locate the clamp and attach to the post and panel as shown. Total of two (2) locations.





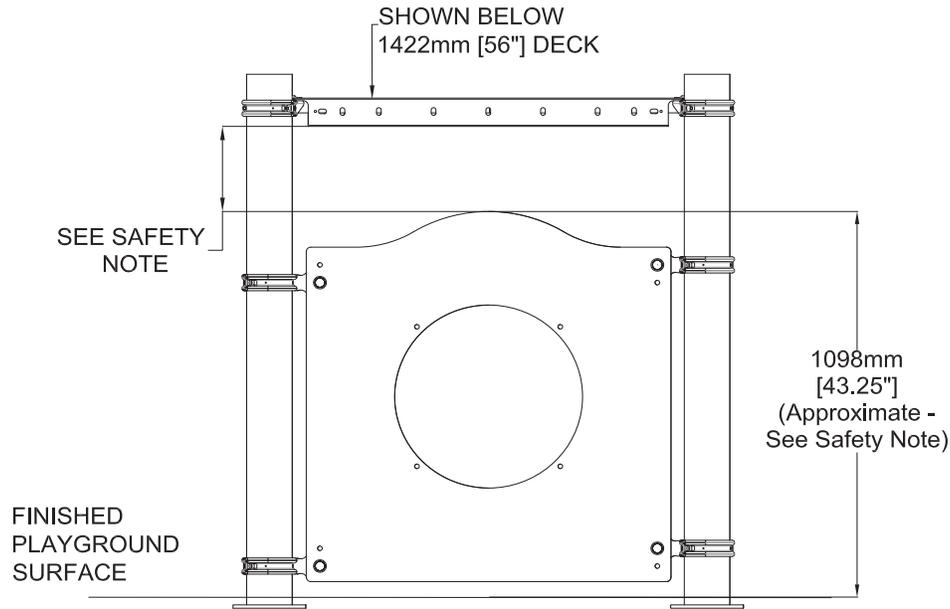
## KB ACTIVITY PANEL FRAME DKMT, PTMT

B. *BELOW DECK* INSTALLATION: 56" AND 64" DECKS

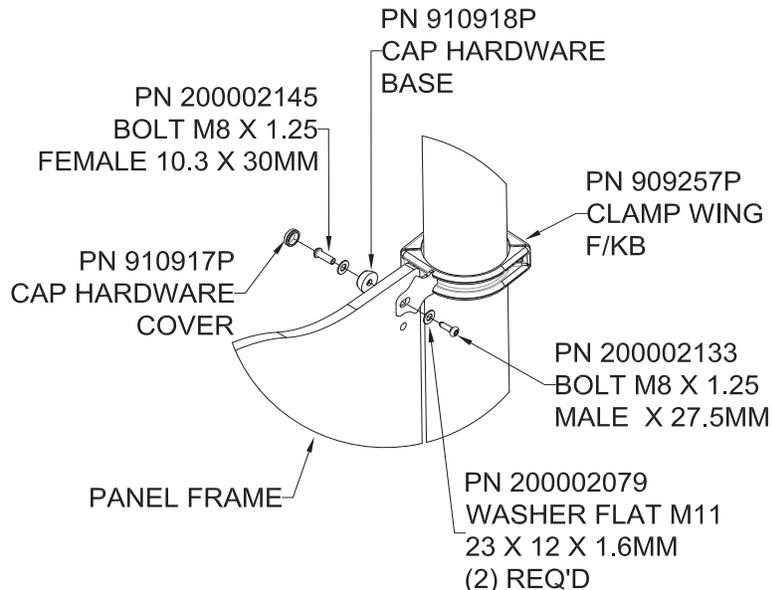
### **STEP 6** ATTACH POST CLAMP TO POST AND PANEL

6a. Mark the posts for clamp locations per safety note.

*Safety Note: Vertical clearance space between panel assembly and lowest point of deck must be either (A) between 1" and 3", or (B) a minimum of 9.5".*



6b. Locate the clamps and attach to the posts and panel as shown. Total of four (4) locations.



KB ACTIVITY PANEL FRAME DKMT, PTMT

KB600049

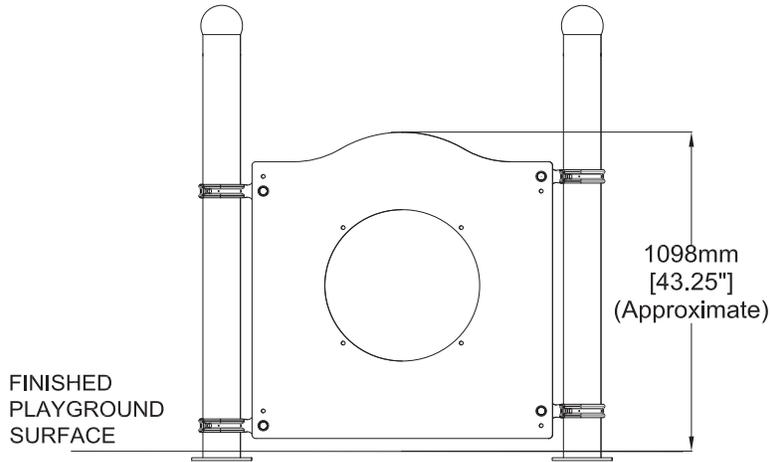


# KB ACTIVITY PANEL FRAME DKMT, PTMT

## C. FREESTANDING INSTALLATION:

### STEP 7 ATTACH POST CLAMP TO POST AND PANEL

7a. Refer to step 6b for clamp attachment to posts and panel as shown. Total of four (4) locations.

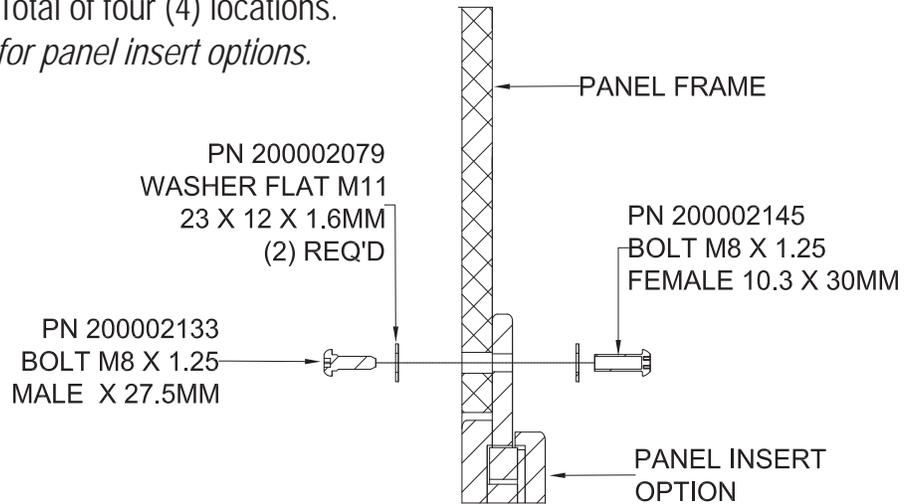


### STEP 8 ATTACH INSERT PANEL TO PANEL FRAME

8a. For 200203470 DKMT: the insert panel faces towards the deck; attach to the panel frame as shown. Total of four (4) locations.

8b. For 200203471 PTMT: the insert panel faces away from the deck; attach to the panel frame as shown. Total of four (4) locations.

*Note: Reference page 4 for panel insert options.*

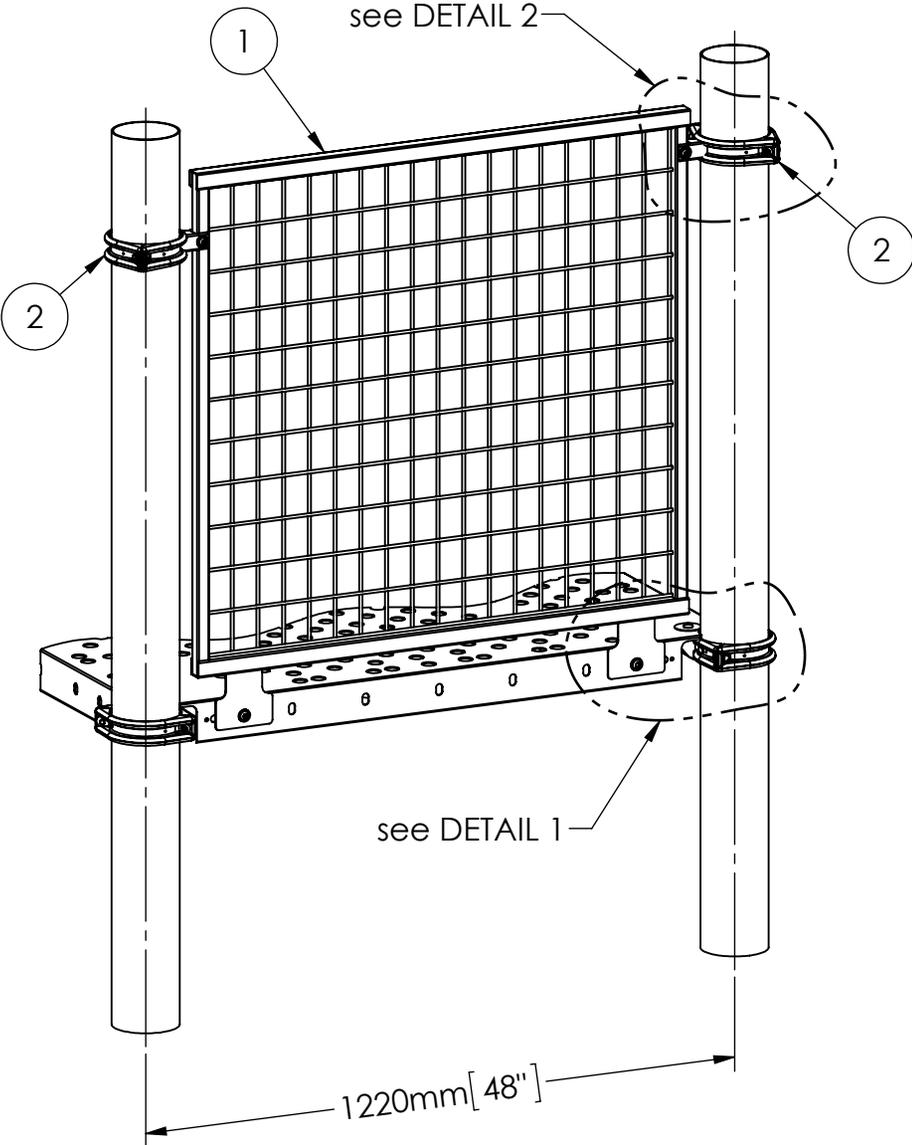


### FINAL STEP

Proceed with *Final Assembly* installation. Plumb and level entire assembly.

# INST F/KB WIRE MESH PANEL

200313374  
 KB600070A  
 SHEET 1 OF 2  
 AUTHORIZED BY: 03Dec14  
*Chris Newbury*



KB WIRE MESH PANEL 200203377			
ITEM	PART #	DESCRIPTION	QTY
1	912317	PANEL WIRE MESH F/KB	1
2	...	KB SQUARE TUBE TAB CLAMP ASSEMBLY	2
HDWR F/KB WIRE MESH PANEL HW911799-1			
3	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30MM	2
4	200002133	BOLT M8 X 1.25 MALE 27.5mm	2
5	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25mm	2
6	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	2
7	200002079	WASHER FLAT M11 23 X 12 X 1.6	8

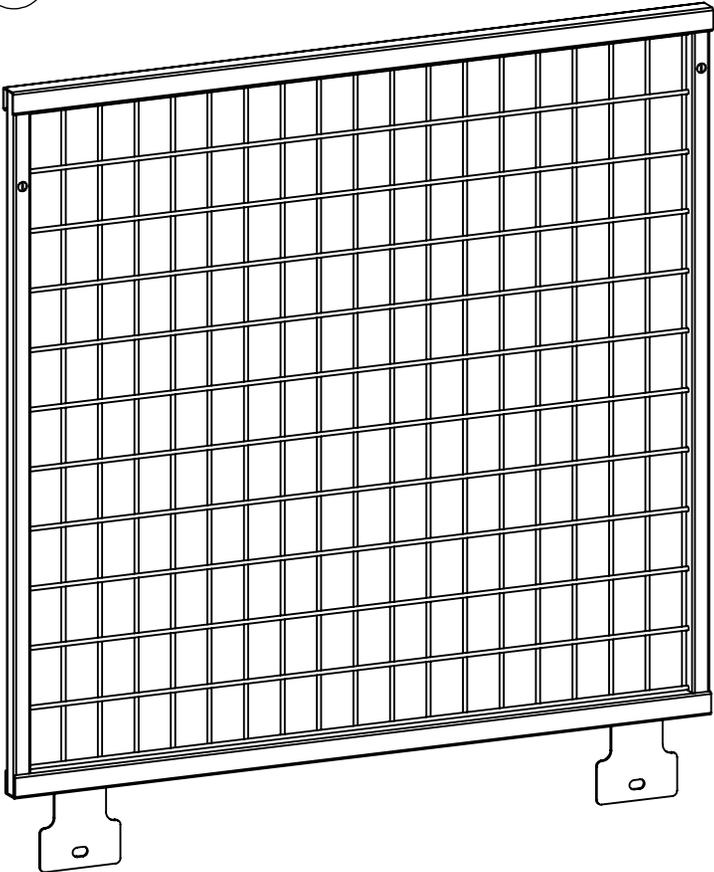
### Installation Instructions

1. Loosely attach clamps to posts (refer to front of manual for additional clamp installation details).
2. Place Mesh Enclosure on deck as shown in main view on sheet 1. Attach bottom plate to deck as shown in DETAIL 1 and to clamps as shown in DETAIL 2. Note: Small tab in clamp is designed to be bent out as necessary for panel installation.
3. Tighten all hardware, and install clamp hammer drive pins.

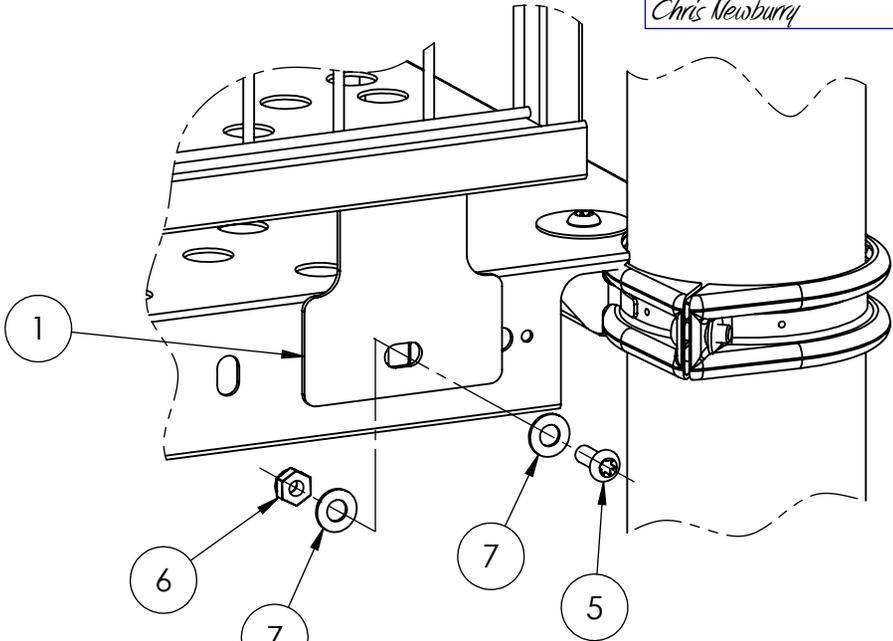
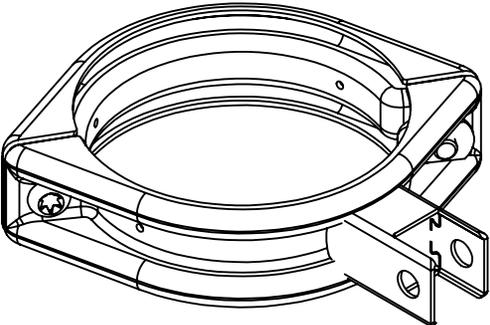
# INST F/KB WIRE MESH PANEL

200313374  
KB600070A  
SHEET 2 OF 2  
AUTHORIZED BY: 03Dec14  
*Chris Newbury*

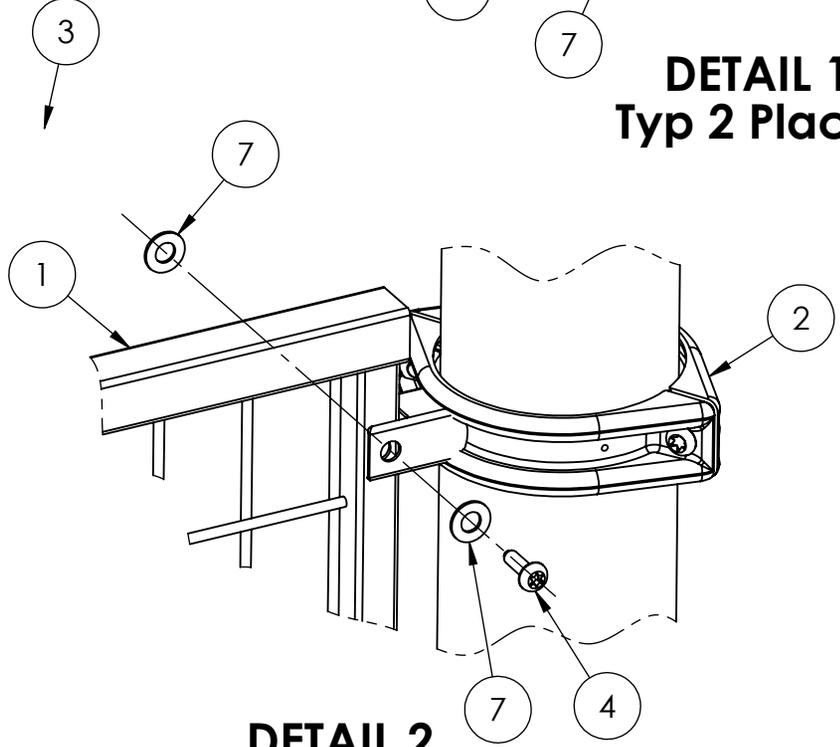
1



2



**DETAIL 1  
Typ 2 Places**



**DETAIL 2  
Typ 2 Places**

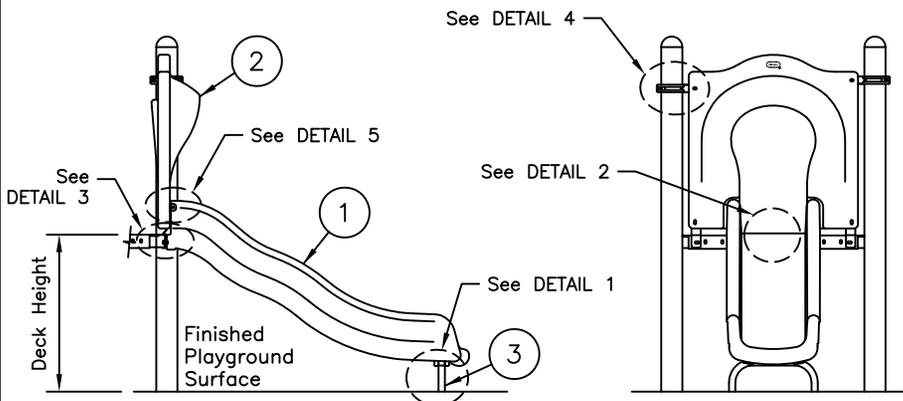
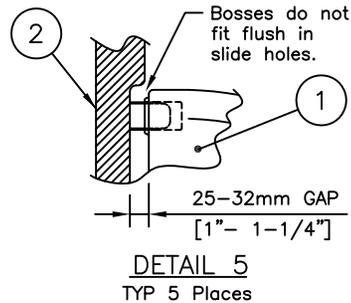
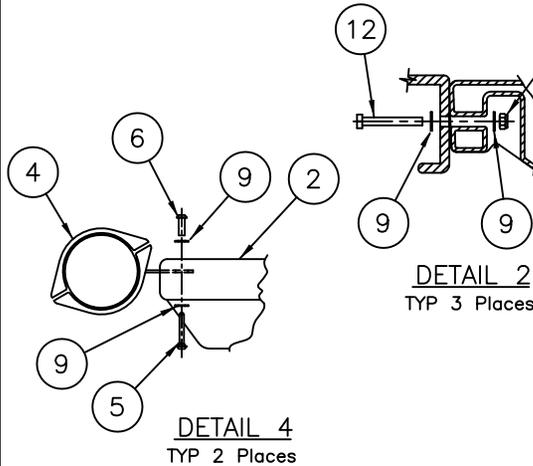
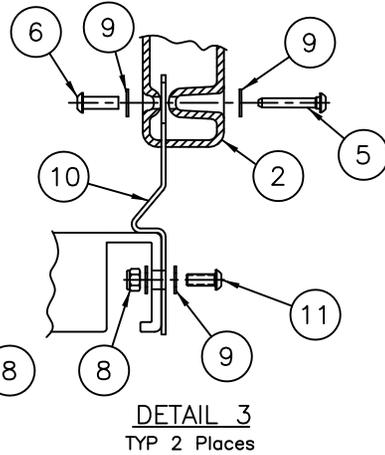
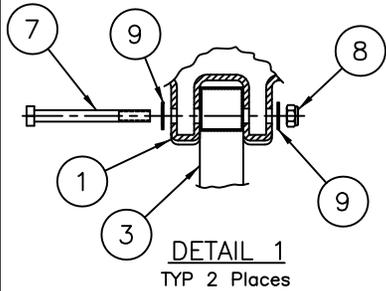


# 812/915/1016/1220 SINGLE WIDE WAVE SLIDES

200002756  
KB700003F-S1  
Sheet 1 of 2

AUTHORIZED BY: 12DEC14

*Chris M. Newberry*



**NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS**

812mm [32"] SINGLE WIDE WAVE SLIDE	200201023
915mm [36"] SINGLE WIDE WAVE SLIDE	200006979
1016mm [40"] SINGLE WIDE WAVE SLIDE	200201024
1220mm [48"] SINGLE WIDE WAVE SLIDE	200006980
KB WAVE SLIDE 32" W/2014 HOOD	200203323
KB WAVE SLIDE 36" W/2014 HOOD	200203324
KB WAVE SLIDE 40" W/2014 HOOD	200203325
KB WAVE SLIDE 48" W/2014 HOOD	200203326

Item	Code	Description	Qty.
1	-	SINGLE WIDE WAVE SLIDE KB	1
2A	-	HOOD F/KB SGL. WD. WAVE SLIDE	1
2B	-	KB SGL WIDE SLIDE HOOD (2014)	1
3	-	SUPP. END SGL. WD. WAVE SLIDE	1
4	-	KB PANEL CLAMP	2
10	200117149	TAB F/PANEL MOUNTING F/KB BRN	2

**HDWR BAG F/KB 915/1220 SGL.WD.SLIDE (MM) 200007674**

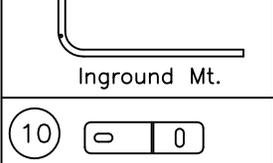
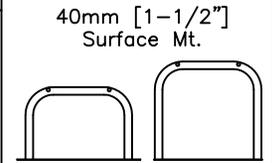
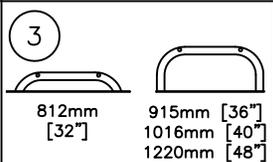
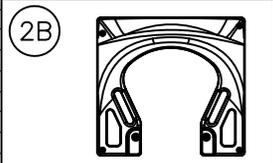
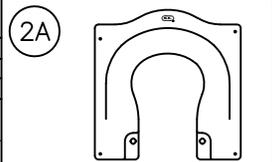
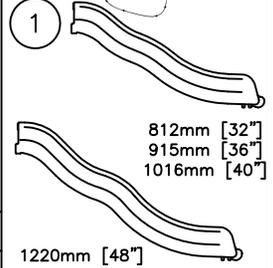
Item	Code	Description	Qty.
5	200002142	BOLT M8 X 1.25 MALE 57.5 mm	4
6	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30mm	4
7	200001875	CAP SCREW HEX HEAD M10 1.50 X 110mm	2
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	7
9	200002079	WASHER FLAT M11 23 X 12 X 1.6 mm	22
11	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25mm	2
12	200001859	CAP SCREW HEX HEAD M10 X 1.50 X 75mm	3

**Application**

- Age Groups: (2-5 year olds) & (5-12 year olds).
- The exit region should be no higher than 280 [11"] from finished playground surface for slides with an elevation no greater than 1220 [48"].
- For slides with an elevation greater than 1220 [48"], exit region should be between 180-380 [7"-15"].
- Runout slope must be between 0 to -4 degrees.

**Installation Instructions**

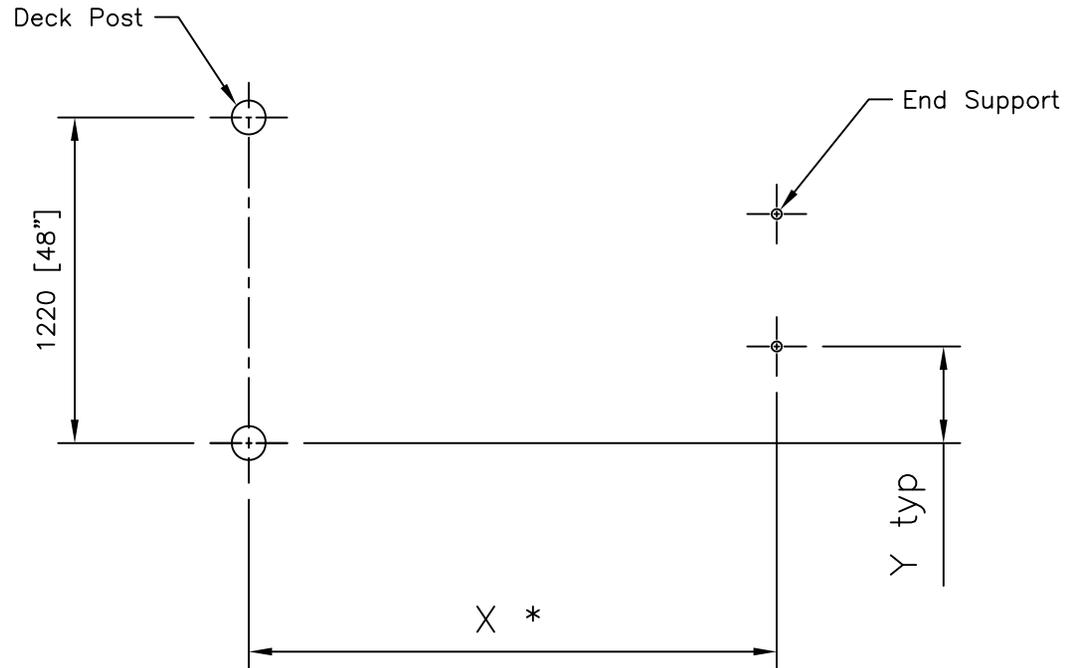
1. Prepare footings.
2. Attach the end support to the underside of the Slide as shown in DETAIL 1.
3. Place the support in the footing and attach the Slide to the deck edge as shown in DETAIL 2. If Surface Mounting, anchor the supports to the concrete.
4. Insert the bosses located at the front of the Slide Hood, into the holes provided in the side walls of the Slide. Push the hood in until FIRMLY in place. The Hood has been designed to resist string entanglements, therefore, the bosses do not fit flush in the Slide holes (see DETAIL 5). Insert the deck mounting tabs into the slots in the lower portion of the hood then to the deck edge as shown in DETAIL 3.
- (NOTE: vertical slot in tab should be inserted into panel off centered to the outside.)
5. Insert panel clamps into the slots in the Hood as shown in DETAIL 4. Attach the clamps to the post. (Refer to front of manual for clamp installation detail).
6. Tighten all hardware and install clamp drive pins.
7. Complete footings and install resilient surfacing.





*Chris M. Newberry*

# Footing Layout

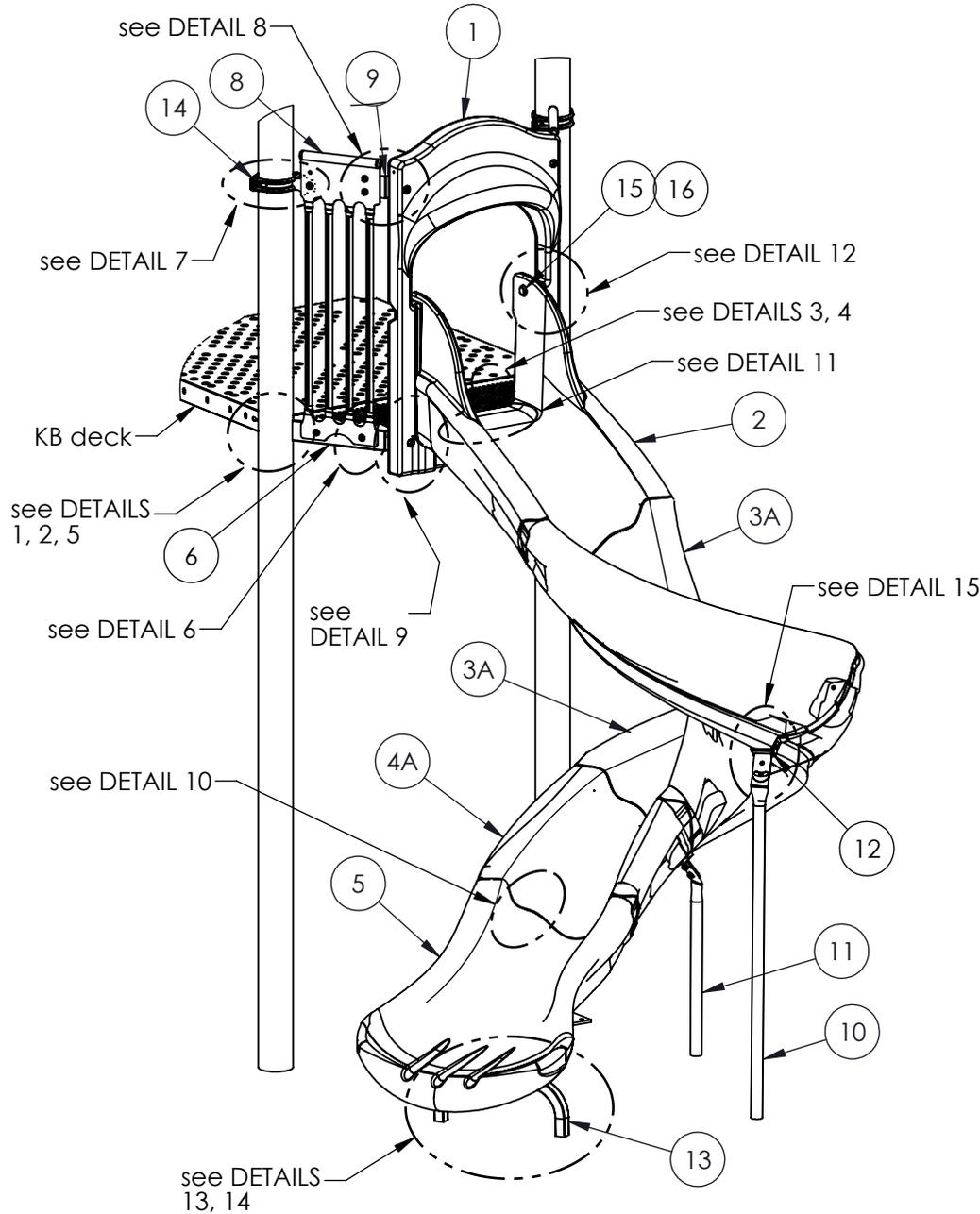


DECK HEIGHT	X		Y	
	Surface Mount	Inground	Surface Mount	Inground
812 [32"]	1650 [65"]	1650 [65"]	325 [13"]	363 [14-1/2"]
915 [36"]	1650 [65"]	1650 [65"]	363 [14-1/2"]	363 [14-1/2"]
1016 [40"]	1610 [63-1/2"]	1650 [65"]	410 [16"]	363 [14-1/2"]
1220 [48"]	1980 [78"]	1980 [78"]	363 [14-1/2"]	363 [14-1/2"]

\*Reference general information section in front of manual for slide installation information.

# INST F/KB QUANTUM II SPIRAL SLIDE (LEFT & RIGHT) 8'

200313339  
 KB700077A  
 SHEET 1 OF 13  
 AUTHORIZED BY: 13DEC13  
*Eric Cloudus*



**CURVE LEFT OPTION**

## KB 8' QUANTUM II SPIRAL SLIDE LEFT 200203124

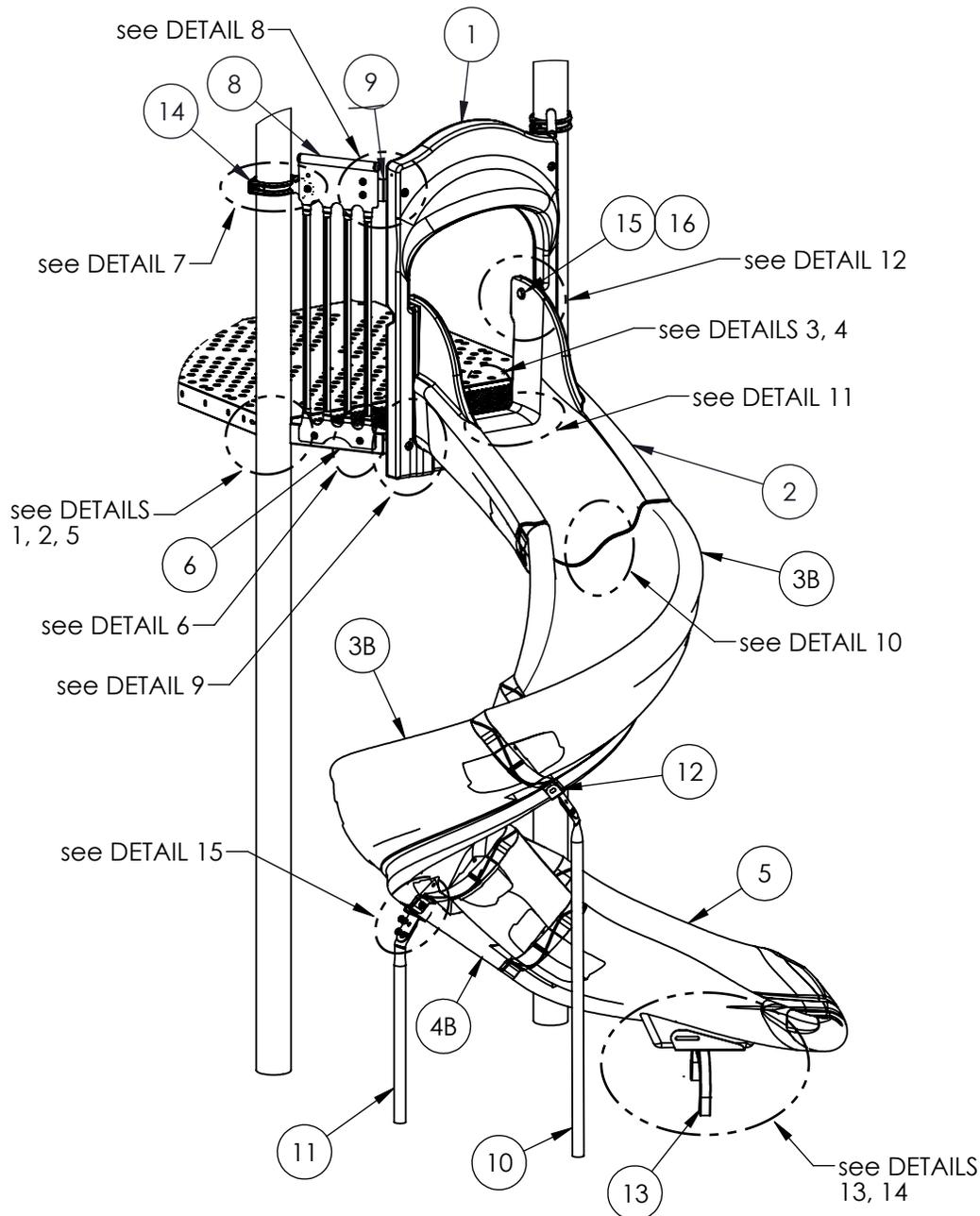
Item	Code	Description	Qty
1	-	LT NARROW HOOD F/2013 SECTIONAL SLIDE	1
2	-	LT START F/2013 SECTIONAL SLIDE	1
3A	-	HIGH BANK LEFT F/2013 SECTIONAL SLIDE	2
4A	-	LOW BANK LEFT F/2013 SECTIONAL SLIDE	1
5	-	RUNOUT F/2013 SECTIONAL SLIDE	1
6	-	KB NARROW HD DECK ASSY	1
7	-	KB NARROW HOOD DK POST BRKT	2
8	-	KB NARROW HD ENCL	2
9	-	KB NARROW HD SLIDE BRACKET	2
10	-	48" HB SPIRAL SUPPORT WLDMT	1
11	-	24" KB SPIRAL SUPPORT WLDMT	1
12	-	MID SUPP BRKT F/2013 SECT SLIDE	2
13	-	RUNOUT SUPP F/2013 SECT SLIDE	1
14	-	KB WING CLAMP ASSEMBLY	2
15	-	CAP HDWR COVER	2
16	-	CAP HDWR BASE	2

## HDWR BAG F/KB 8' QUANTUM II SPIRAL SLIDE 998168

17	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	19
18	200002030	SCREW MACH BUTTONHEAD M10 X 1.50 X 30MM	3
19	200097726	SCREW MACH BUTTONHEAD M10 X 1.50 X 38MM	2
20	200001826	CAP SCRW HEX HD M8 X 1.25 X 75MM W/PATCH	2
21	200308938	BOLT M8 X 1.25 MALE 90MM	2
22	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30 MM	24
23	200002133	BOLT M8 X 1.25 MALE 27.5 MM	2
24	200002142	BOLT M8 X 1.25 MALE 57.5 MM	20
25	300002750	SCREW T-27 TORX ROUND WASHER HD	12
26	200153311	ROD INTERNALLY THREADED 1/2" S.S. 240MM	1
27	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	21
28	200002100	WASHER FLAT M11 32OD X 13ID X 2MM S.S.	2
29	200002079	WASHER FLAT M11 23 X 12 X 1.6	93

# INST F/KB QUANTUM II SPIRAL SLIDE (LEFT & RIGHT) 8'

200313339  
 KB700077A  
 SHEET 2 OF 13  
 AUTHORIZED BY: 13DEC13  
*Eric Cloudus*



**CURVE RIGHT OPTION**

## KB 8' QUANTUM II SPIRAL SLIDE RIGHT 200203131

Item	Code	Description	Qty
1	-	LT NARROW HOOD F/2013 SECTIONAL SLIDE	1
2	-	LT START F/2013 SECTIONAL SLIDE	1
3B	-	HIGH BANK RIGHT F/2013 SECTIONAL SLIDE	2
4B	-	LOW BANK RIGHT F/2013 SECTIONAL SLIDE	1
5	-	RUNOUT F/2013 SECTIONAL SLIDE	1
6	-	KB NARROW HD DECK ASSY	1
7	-	KB NARROW HOOD DK POST BRKT	2
8	-	KB NARROW HD ENCL	2
9	-	KB NARROW HD SLIDE BRACKET	2
10	-	48" HB SPIRAL SUPPORT WLDMT	1
11	-	24" KB SPIRAL SUPPORT WLDMT	1
12	-	MID SUPP BRKT F/2013 SECT SLIDE	2
13	-	RUNOUT SUPP F/2013 SECT SLIDE	1
14	-	KB WING CLAMP ASSEMBLY	2
15	-	CAP HDWR COVER	2
16	-	CAP HDWR BASE	2

## HDWR BAG F/KB 8' QUANTUM II SPIRAL SLIDE 998168

17	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	19
18	200002030	SCREW MACH BUTTONHEAD M10 X 1.50 X 30MM	3
19	200097726	SCREW MACH BUTTONHEAD M10 X 1.50 X 38MM	2
20	200001826	CAP SCRW HEX HD M8 X 1.25 X 75MM W/PATCH	2
21	200308938	BOLT M8 X 1.25 MALE 90MM	2
22	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30 MM	24
23	200002133	BOLT M8 X 1.25 MALE 27.5 MM	2
24	200002142	BOLT M8 X 1.25 MALE 57.5 MM	20
25	300002750	SCREW T-27 TORX ROUND WASHER HD	12
26	200153311	ROD INTERNALLY THREADED 1/2" S.S. 240MM	1
27	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	21
28	200002100	WASHER FLAT M11 32OD X 13ID X 2MM S.S.	2
29	200002079	WASHER FLAT M11 23 X 12 X 1.6	93

## **BEFORE STARTING INSTALLATION OF YOUR LITTLE TIKES COMMERCIAL PRODUCT, "PLEASE READ INSTRUCTIONS THOROUGHLY"**

This playevent is designed to suit a level site. Should there be any slopes on the site, care should be taken to accommodate the entry and exit points and to maintain the correct heights.

The site must be checked for adverse or unusual conditions. i.e.

- 1) Exposed, cracked or loose concrete footings.
- 2) Worn, scattered or compressed surface material.
- 3) Exposed roots, rocks or other environmental obstacles that form potential trip hazards.
- 4) Broken glass, refuse, or foreign objects around and on play equipment.
- 5) Poor drainage areas.
- 6) All sites especially those close to existing buildings must be checked for electrical or gas lines and drainage before digging.

As the owner, it is most important that you are aware of your responsibility for the safe use of your new play equipment. It is necessary to install equipment correctly according to the installation instructions provided and inspect the equipment regularly at intervals specified within the "Maintenance Manual," located in your maintenance kit. During inspection, if any part is found to be damaged or excessively worn, equipment should immediately be put out of service while the part is replaced. Lack of "maintenance" will result in premature wear, reduced life expectancy and possible failure.

All Little Tikes Commercial Play Systems playevents have been designed and engineered to meet all applicable safety guidelines, but if installed improperly, problems may occur such as: protruding hardware, entrapment gaps between 89mm [3.5"] to 229mm [9"], or string entanglements. Any accessible bolt ends that protrude beyond the face of the nut by more than two threads should be trimmed and peened smooth by the installer. Once your installation is complete, always inspect your work. Installation must be done to the manufacturer's assembly manual and applicable safety guidelines and/or standards.

The area immediately surrounding and above the play structure must be free of obstructions such as: buildings, trees, other play equipment, etc., and must be kept clear for entries, exits, traffic and falls. Make sure your site has the required surfacing and fall area designated on your Playground Layout Drawings.

**ALL CHILDREN SHOULD BE SUPERVISED WHILE PLAYING ON EQUIPMENT.**

# INST F/KB QUANTUM II SPIRAL SLIDE (LEFT & RIGHT) 8'

200313339

KB700077A

SHEET 4 OF 13

AUTHORIZED BY: 13DEC13

*Eric Cloudus*

## Installation Instructions

1. Loosely attach the Post brackets (item 7) to the corners of the KB deck as shown in DETAIL 1. Make sure top of KB deck is level. Attach the Post brackets to the posts as shown in DETAIL 2. **NOTE:** Post brackets replace the use of Deck clamps in this application.

2. Attach Narrow deck (item 6) to the front of the KB deck as shown in DETAILS 3 and 4. Make sure top of Narrow deck is level with KB deck before tightening hardware. Attach Narrow deck corners to posts as shown in DETAIL 5.

3. Attach enclosures to Narrow deck as shown in DETAIL 6. Attach enclosures to posts as shown in DETAIL 7. Install wing clamp tabs on deck side of enclosures.

4. Loosely attach Hood brackets (item 9) to enclosures as shown in DETAIL 8.

5. Loosely attach Hood panel (item 1) to front side of Narrow deck as shown in DETAIL 9. Attach top of hood panel to hood brackets as shown in DETAIL 8.

6. Assemble the slide sections on the ground, beginning with the runout section (item 5). See sheet 1 for the left curve option; see sheet 2 for the right curve option. The sections will actually "snap" together. A rubber mallet is recommended to apply a blunt force to make the "snap" connection. Install hardware as shown in DETAIL 10.

7. Lift assembled slide and attach Start slide section (item 2) to the front side of the Narrow deck as shown in DETAIL 11. Attach top of Start slide section to Hood as shown in DETAIL 12.

8. Position the Runout support (item 13) under the runout section. NOTE: the Runout support is designed to allow for shrinkage during cool weather and expansion during warm weather. Consider the ambient air temperature when installing this slide. See DETAIL 14 for where to install hardware. Install hardware as shown in DETAIL 13.

9. See main view on sheet 1 (for curve left option) or sheet 2 (for curve right option) to determine which slide sections the short and tall Mid supports will be attached to. Position the Mid support bracket (item 12) on the bottom center of the slide section and, using the Mid support bracket as a template, drill a  $\phi$  13mm [1/2"] hole through both walls of the plastic slide section and install the bracket hardware as shown in DETAIL 15.

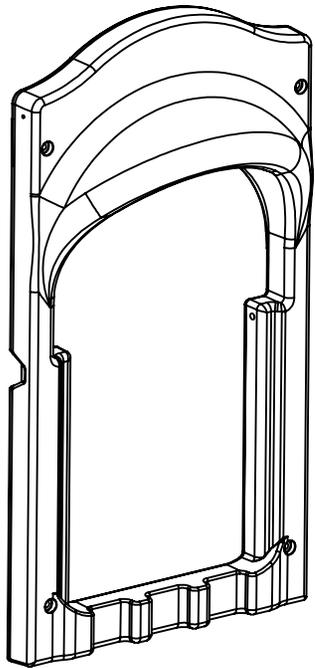
10. Install the Mid supports to the brackets as shown in DETAIL 15.

11. Tighten all hardware and install post clamp drive pins. Complete the footings, and install resilient surfacing.

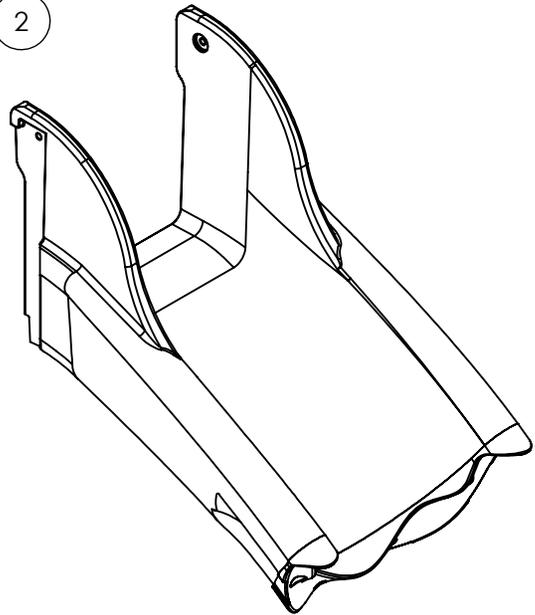
# INST F/KB QUANTUM II SPIRAL SLIDE (LEFT & RIGHT) 8'

200313339  
KB700077A  
SHEET 5 OF 13  
AUTHORIZED BY:  
*Eric Cloudus* 13DEC13

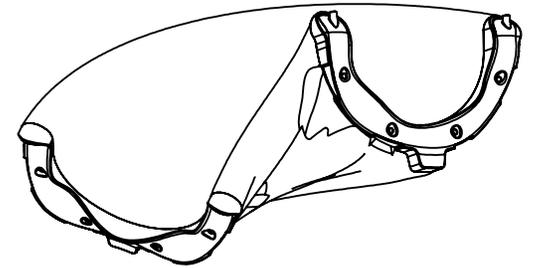
1



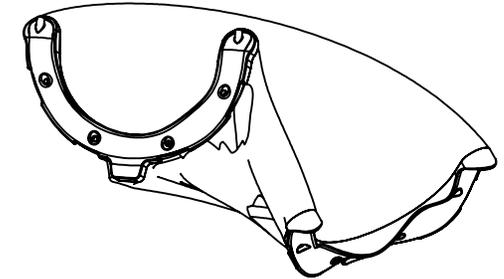
2



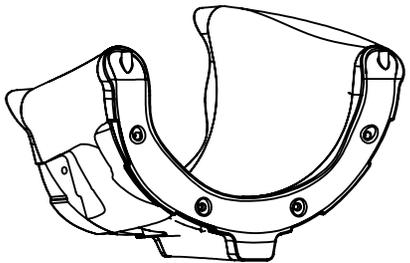
3A



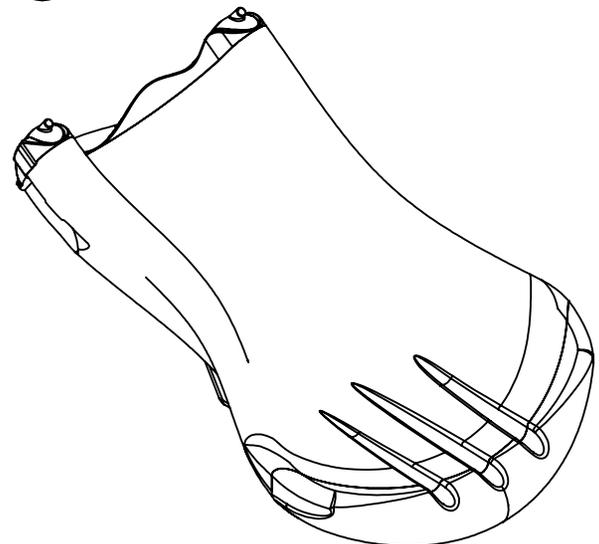
3B



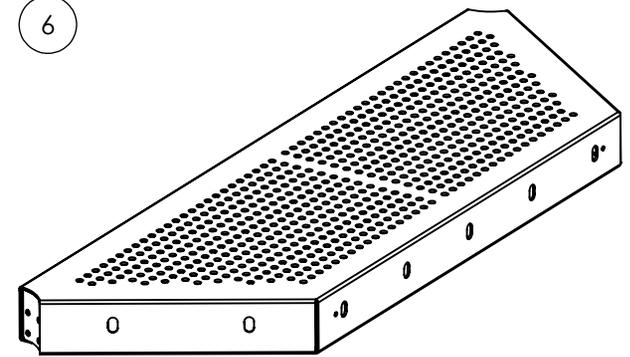
4A



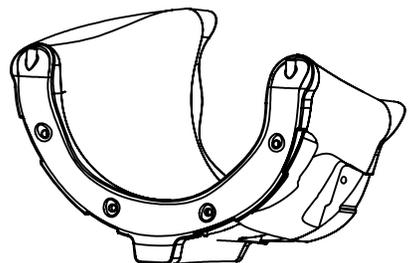
5



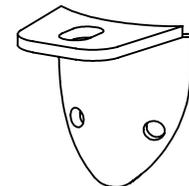
6



4B



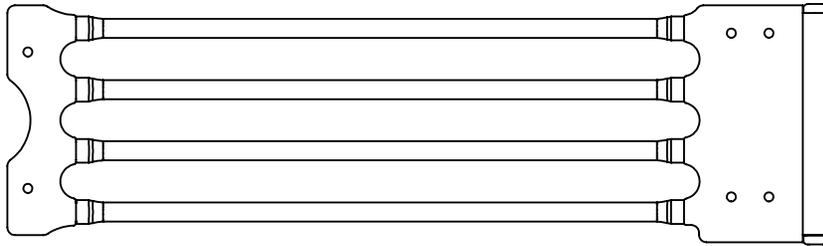
7



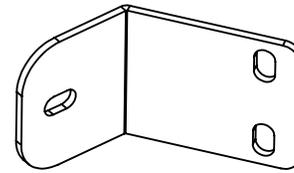
# INST F/KB QUANTUM II SPIRAL SLIDE (LEFT & RIGHT) 8'

200313339  
 KB700077A  
 SHEET 6 OF 13  
 AUTHORIZED BY:  
*Eric Cloudus* 13DEC13

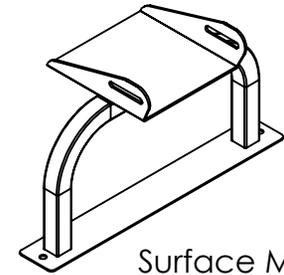
8



9

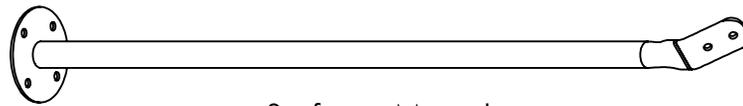


13

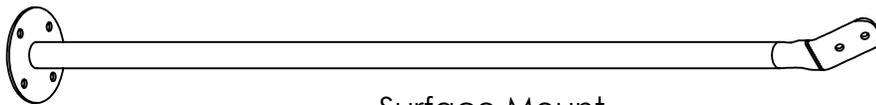


Surface Mount  
40mm [1 1/2"]

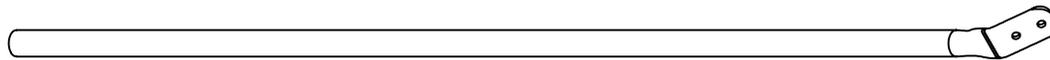
10



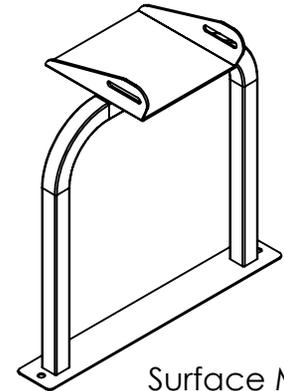
Surface Mount  
40mm [1 1/2"]



Surface Mount  
305mm [12"]

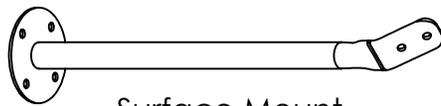


Inground Mount

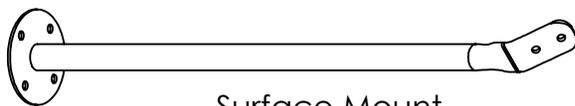


Surface Mount  
305mm [12"]

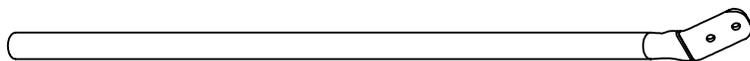
11



Surface Mount  
40mm [1 1/2"]

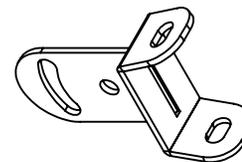


Surface Mount  
305mm [12"]

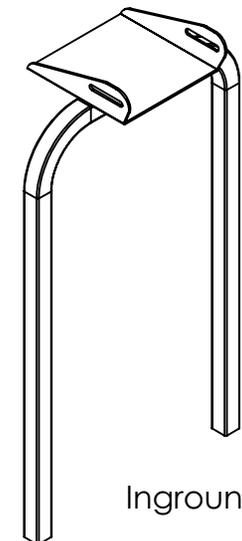
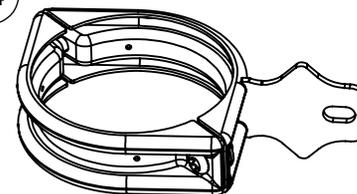


Inground Mount

12



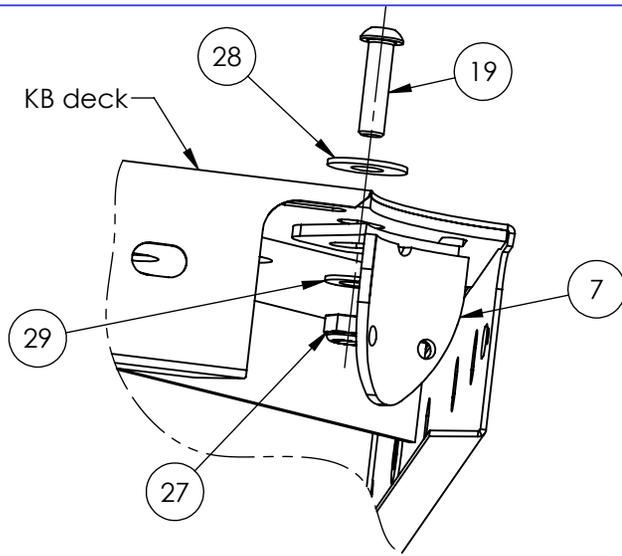
14



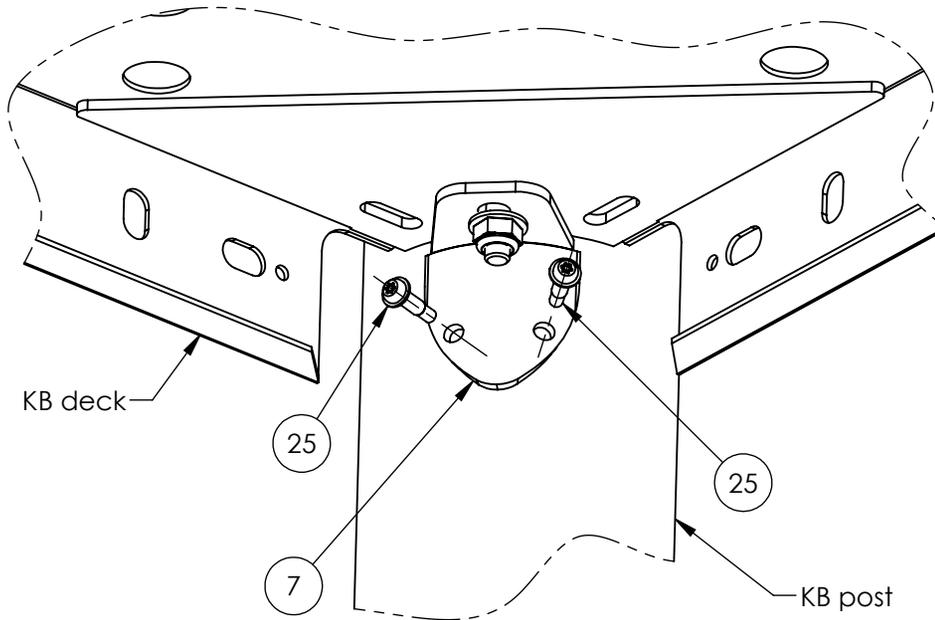
Inground Mount

# INST F/KB QUANTUM II SPIRAL SLIDE (LEFT & RIGHT) 8'

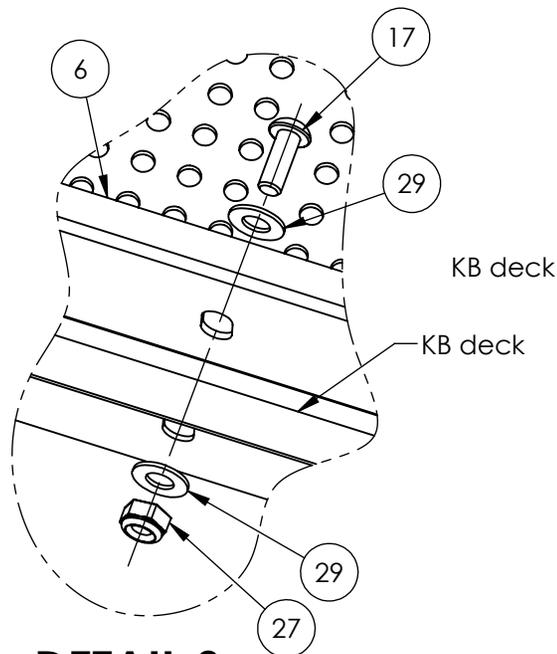
200313339  
KB700077A  
SHEET 7 OF 13  
AUTHORIZED BY: 13DEC13  
*Eric Cloudus*



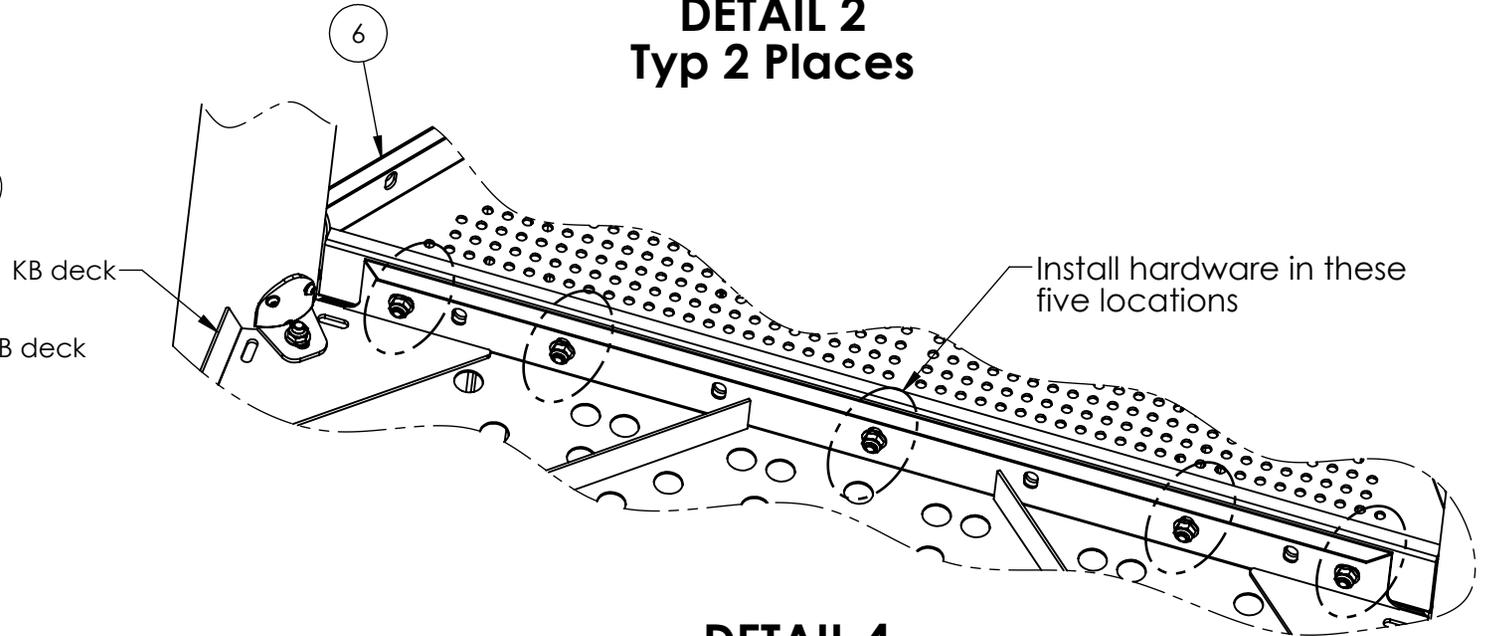
**DETAIL 1**  
**Typ 2 Places**



**DETAIL 2**  
**Typ 2 Places**



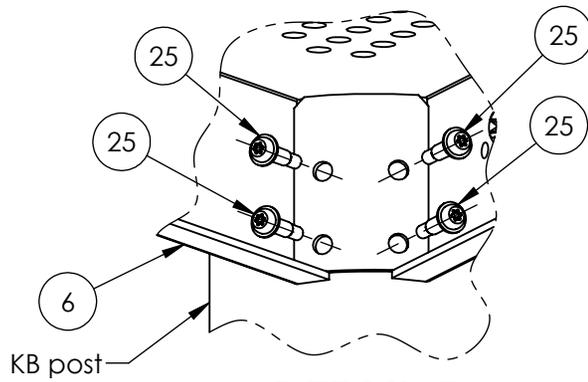
**DETAIL 3**  
**Typ 5 Places**



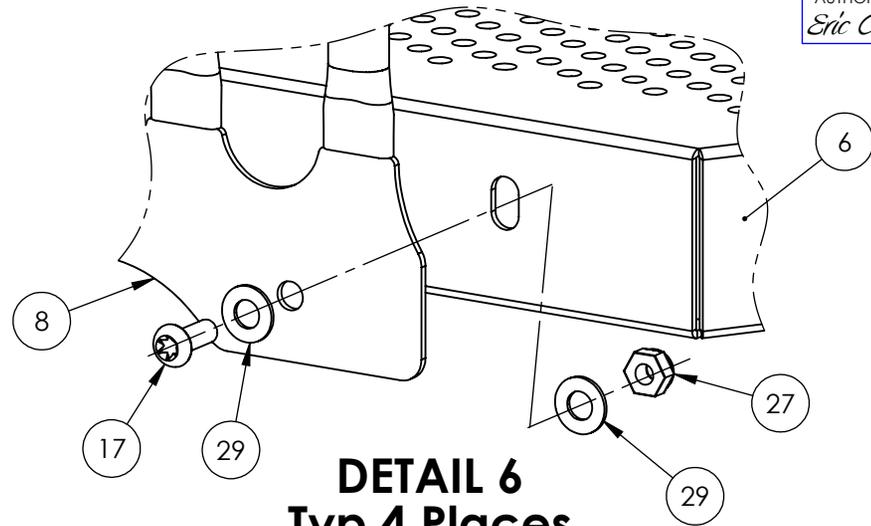
**DETAIL 4**

# INST F/KB QUANTUM II SPIRAL SLIDE (LEFT & RIGHT) 8'

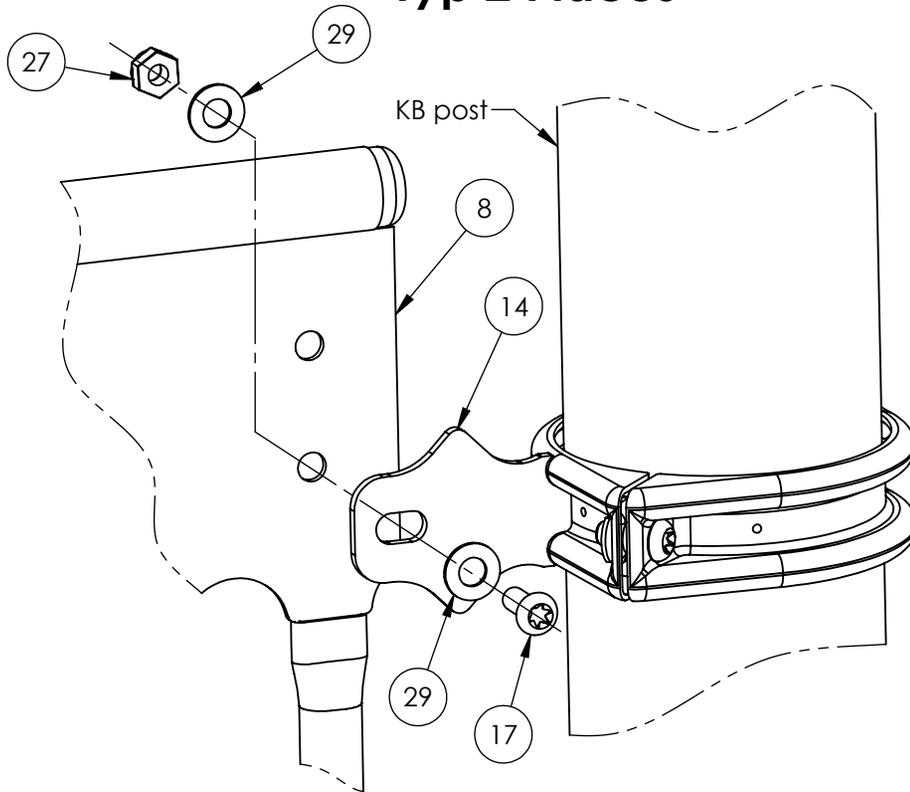
200313339  
KB700077A  
SHEET 8 OF 13  
AUTHORIZED BY: 13DEC13  
*Eric Cloudus*



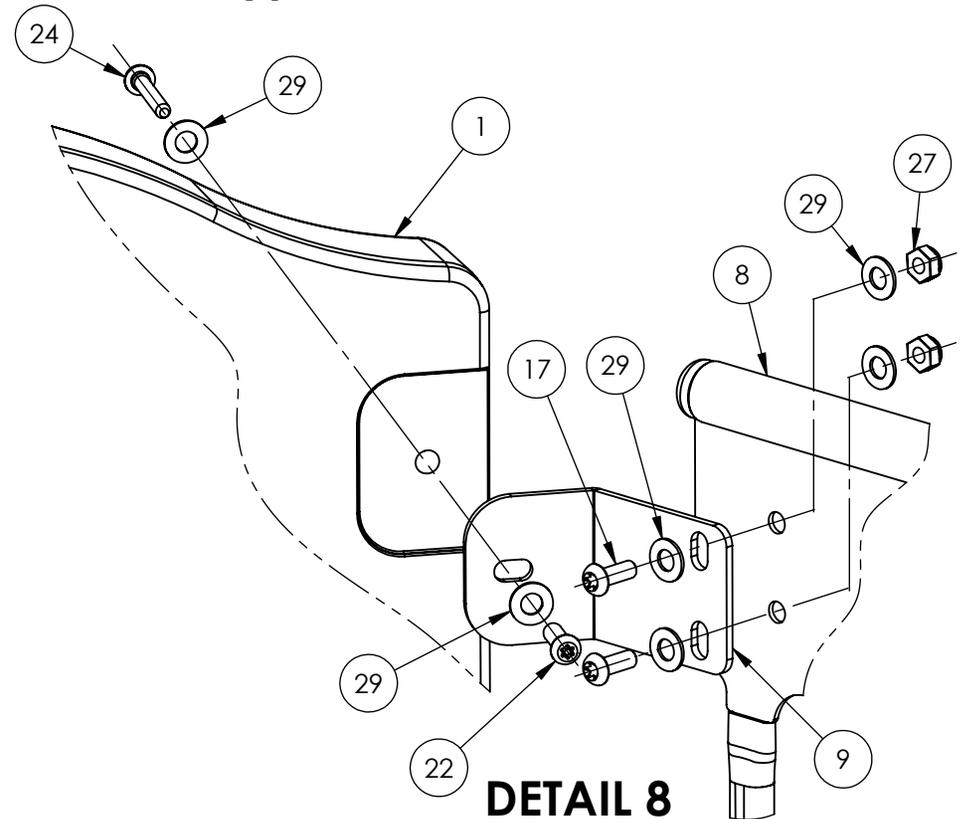
**DETAIL 5**  
Typ 2 Places



**DETAIL 6**  
Typ 4 Places



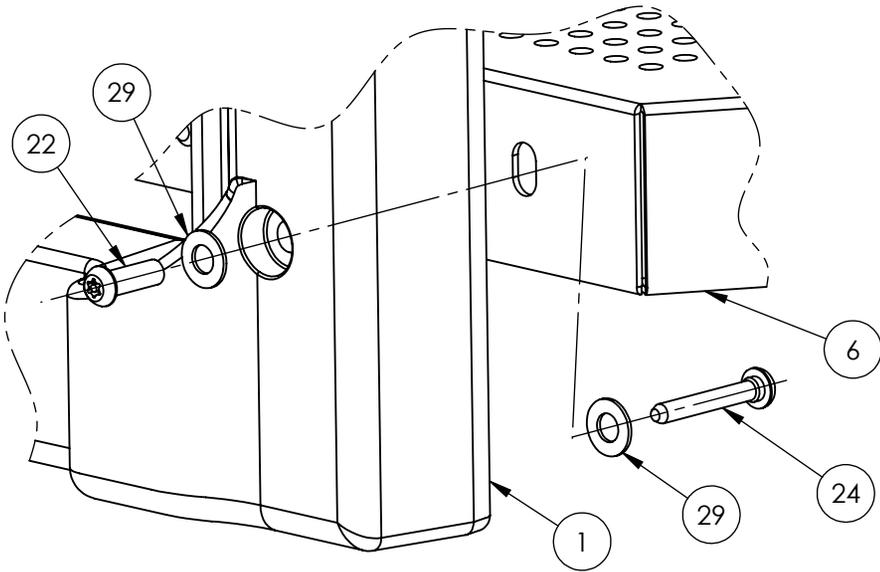
**DETAIL 7**  
Typ 2 Places



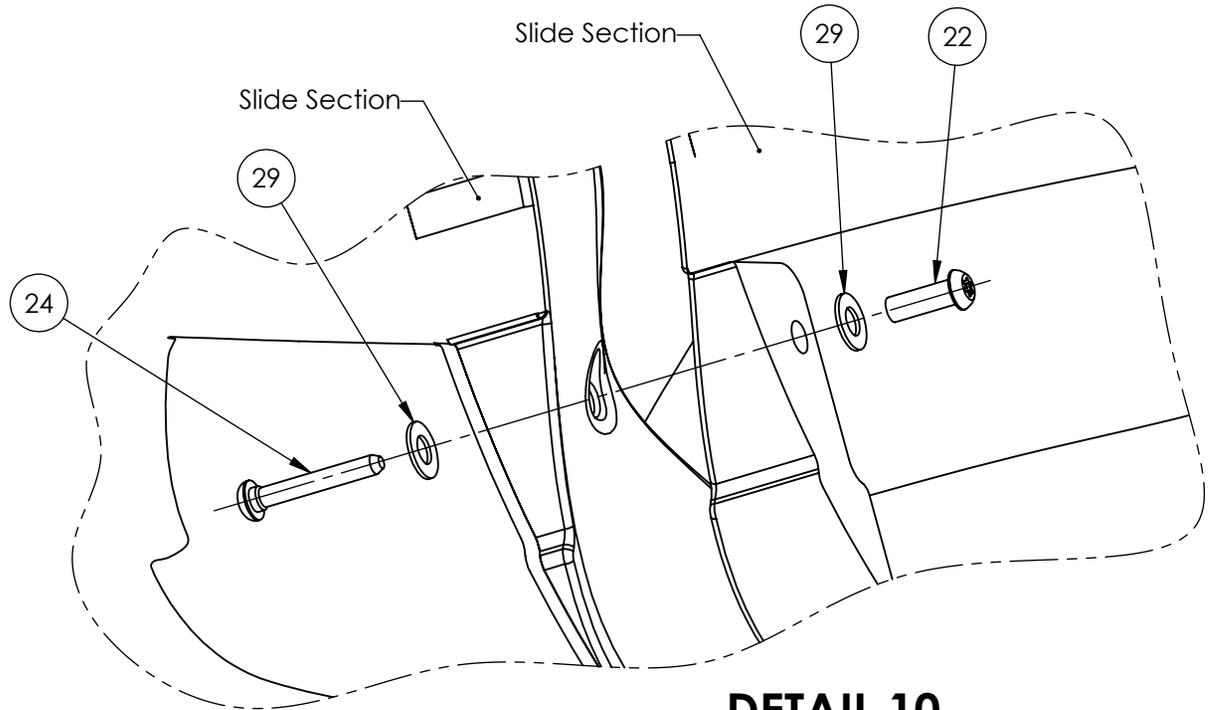
**DETAIL 8**  
Typ 2 Places

# INST F/KB QUANTUM II SPIRAL SLIDE (LEFT & RIGHT) 8'

200313339  
KB700077A  
SHEET 9 OF 13  
AUTHORIZED BY: 13DEC13  
*Eric Cloudus*



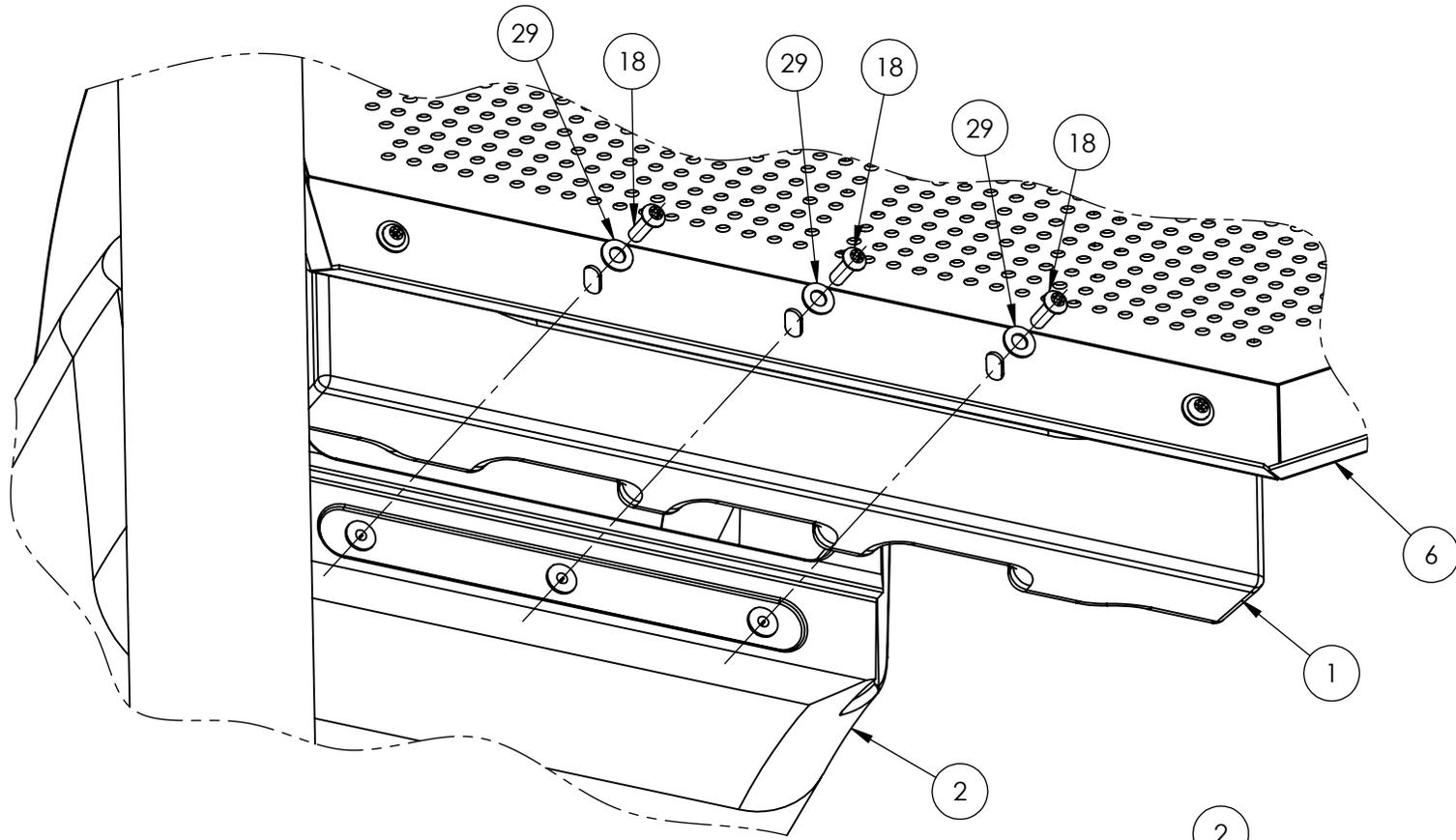
**DETAIL 9  
Typ 2 Places**



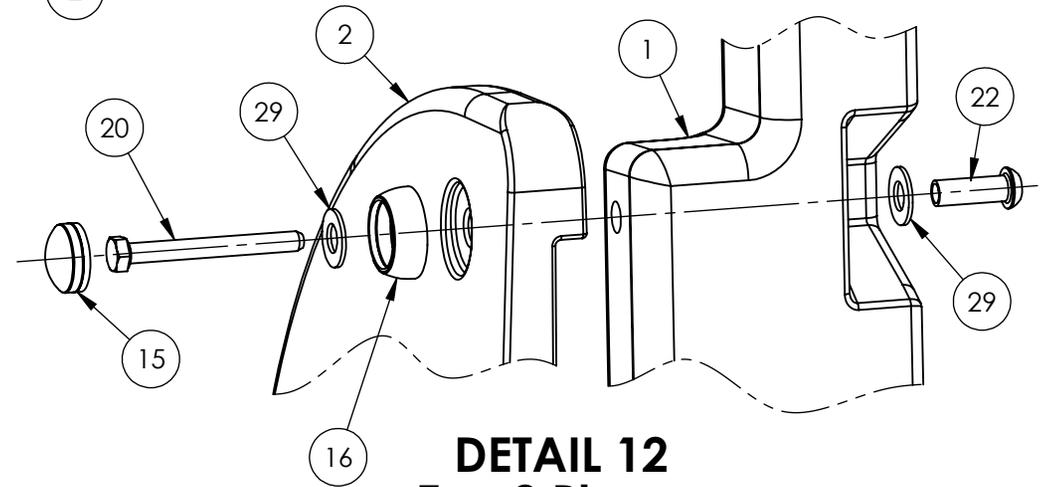
**DETAIL 10  
Typ 16 Places**

# INST F/KB QUANTUM II SPIRAL SLIDE (LEFT & RIGHT) 8'

200313339  
KB700077A  
SHEET 10 OF 13  
AUTHORIZED BY: 13DEC13  
*Eric Cloudus*



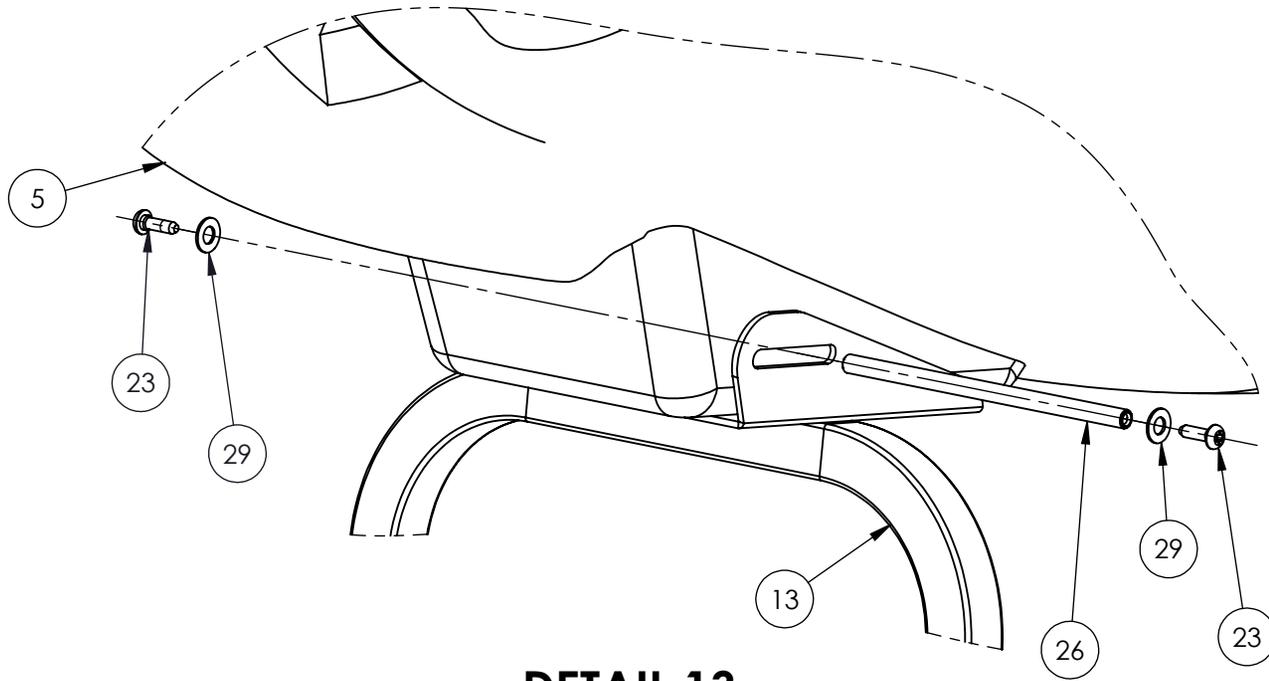
**DETAIL 11**



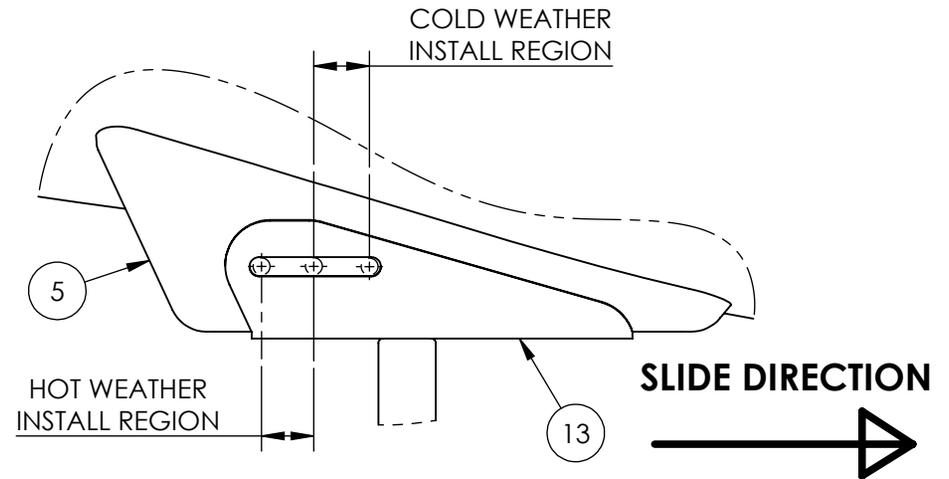
**DETAIL 12**  
**Typ 2 Places**

# INST F/KB QUANTUM II SPIRAL SLIDE (LEFT & RIGHT) 8'

200313339  
KB700077A  
SHEET 11 OF 13  
AUTHORIZED BY: 13DEC13  
*Eric Cloudus*



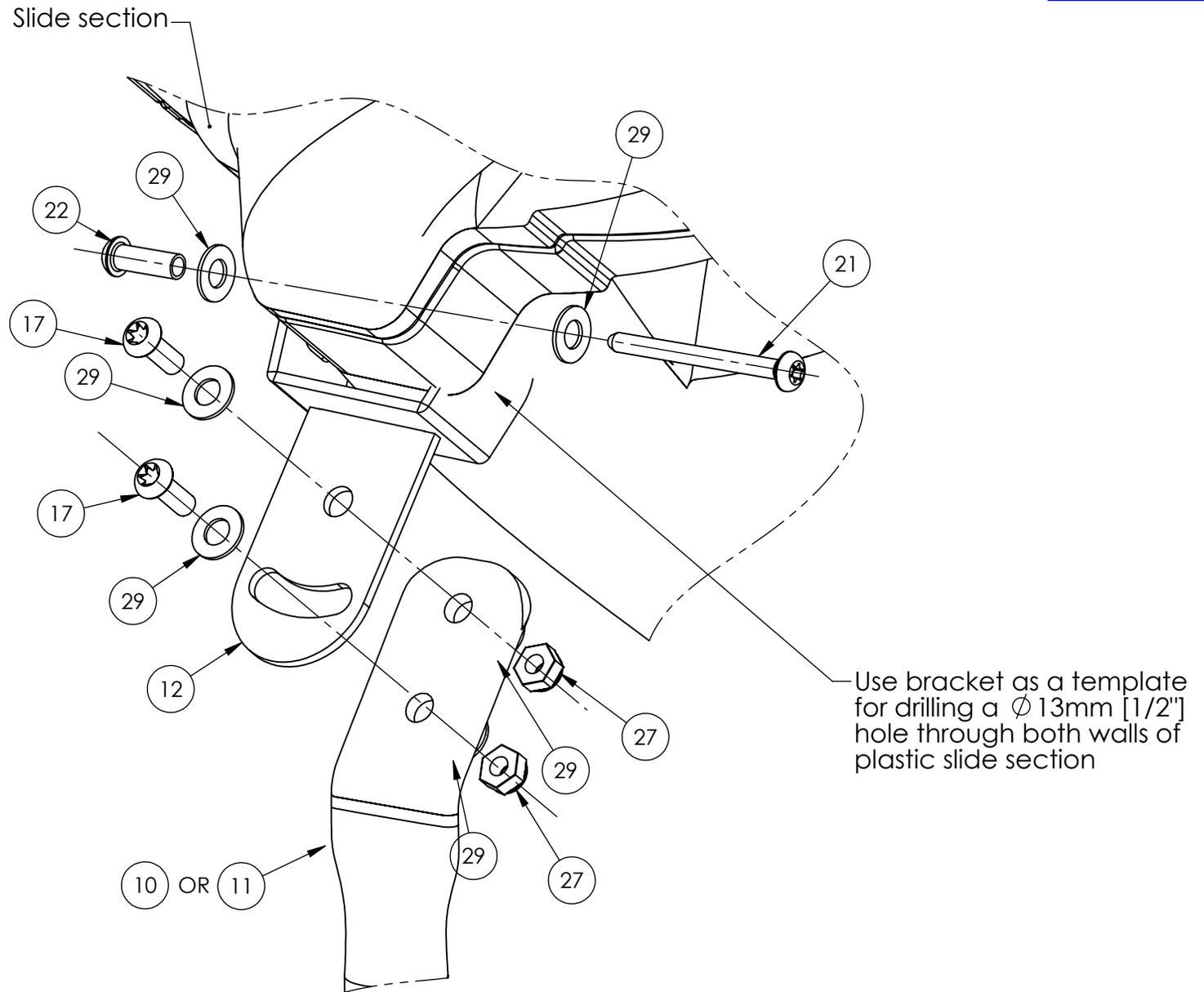
**DETAIL 13**



**DETAIL 14  
(RUNOUT WEATHER ADJUSTMENT)**

# INST F/KB QUANTUM II SPIRAL SLIDE (LEFT & RIGHT) 8'

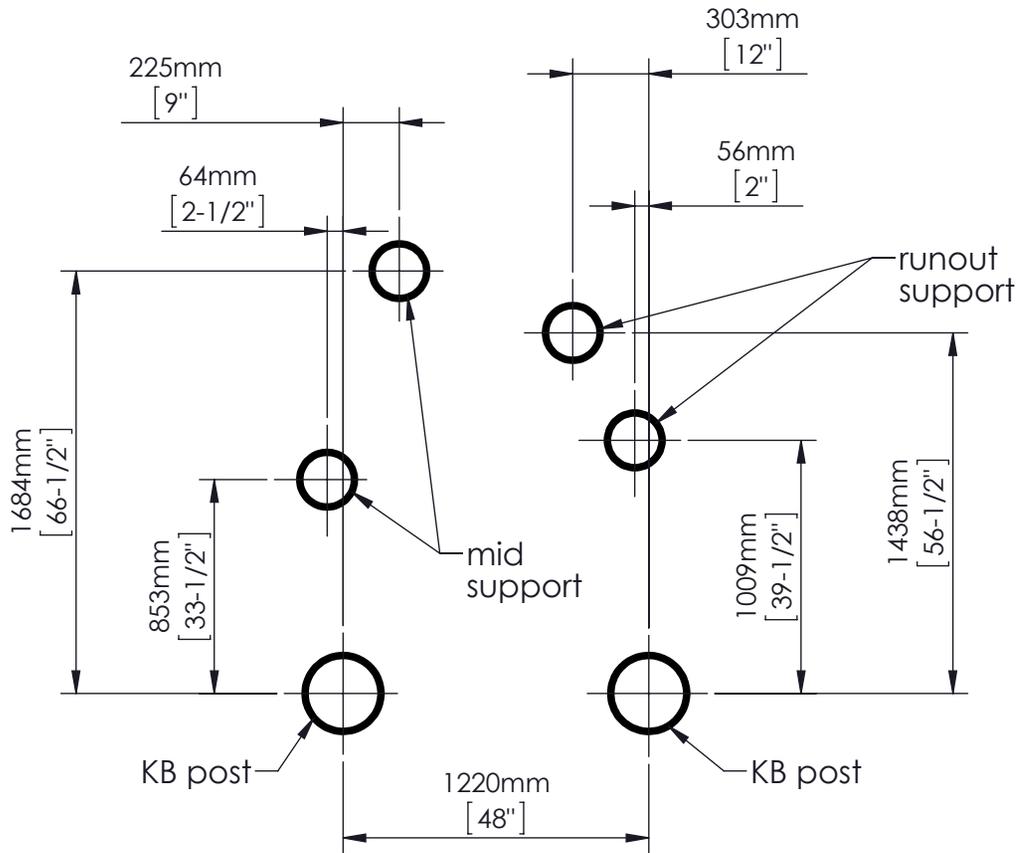
200313339  
KB700077A  
SHEET 12 OF 13  
AUTHORIZED BY: 13DEC13  
*Eric Cloudus*



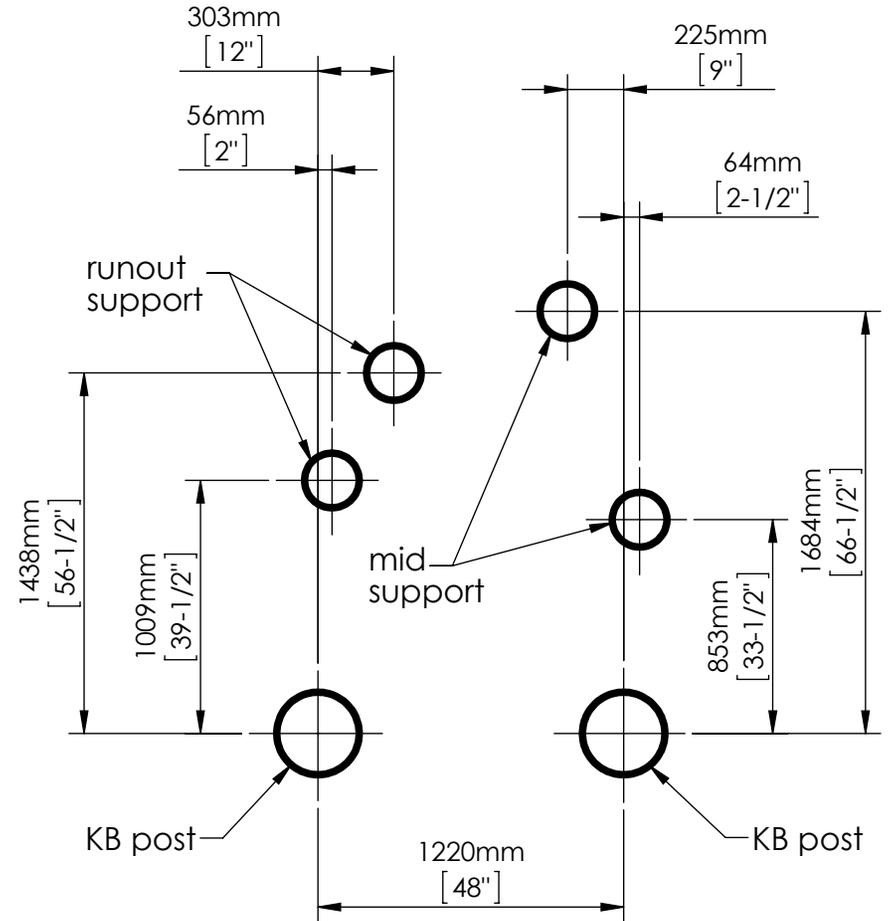
**DETAIL 15**  
**Typ 2 Places**

# INST F/KB QUANTUM II SPIRAL SLIDE (LEFT & RIGHT) 8'

200313339  
 KB700077A  
 SHEET 13 OF 13  
 AUTHORIZED BY: 13DEC13  
*Eric Cloudus*



**FOOTING DIMENSIONS - CURVE LEFT**



**FOOTING DIMENSIONS - CURVE RIGHT**

AUTHORIZED BY: 17JUN08  
*Shawn Slinkard*

## POLYETHYLENE COUNTER PANEL 200007096

Item	Code	Description	Qty.
1	-	PANEL COUNTER F/ KB	1
2	-	KB PANEL CLAMP	4

## HDWR BAG SS F/KB DOOR/COUNTER PANELS 200007591

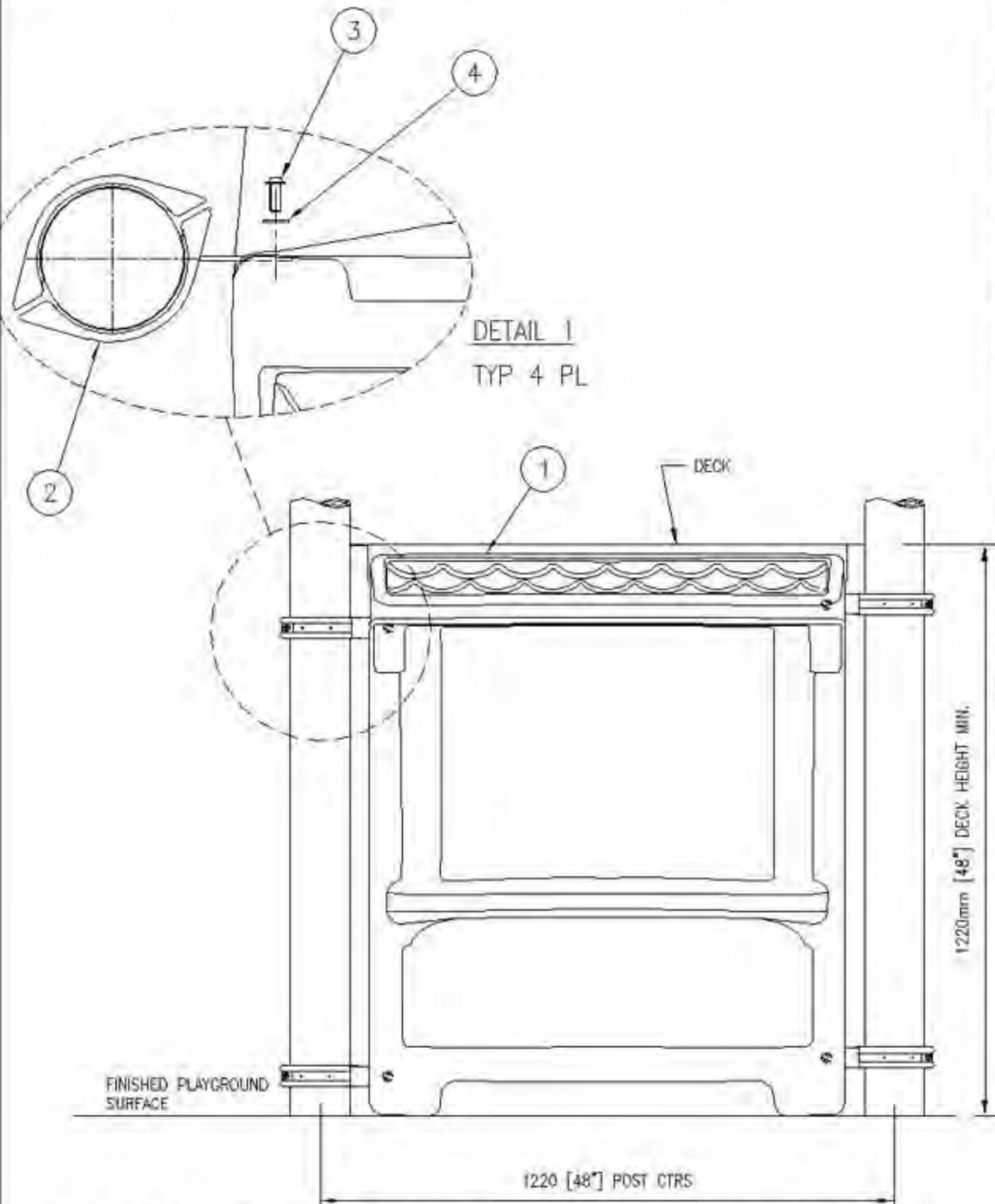
Item	Code	Description	Qty.
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.5 X 25mm	4
4	200002079	WASHER FLAT M11 23 X 12 X 1.6 (650012000)	4

### Application AGE GROUPS (2-12 YEAR OLDS)

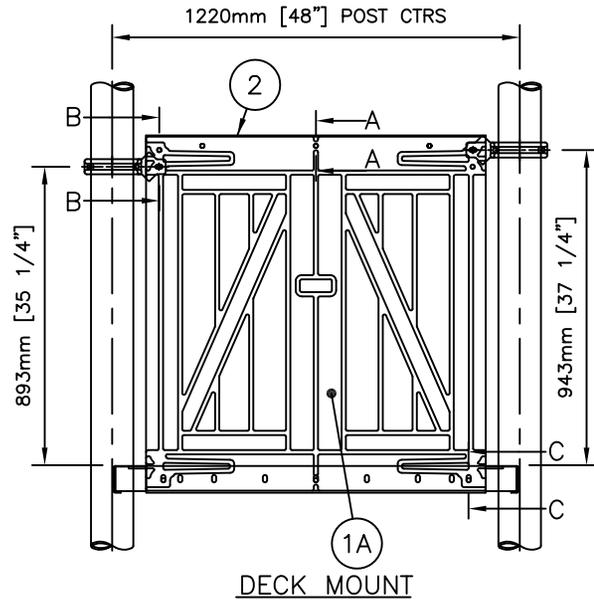
- Below deck: use only
- Cannot be used as an enclosure
- Can only be mounted below a 1220 mm[48"] deck or below a 1525mm[60"] or higher deck
- Avoid entrapment areas between deck and top of panel

### Installation Instructions

1. Loosely attach panel clamps to the back of panel(Refer to DETAIL 1).
2. Loosely assemble clamps to post(Refer to front of manual for clamp installation detail).
3. Position panel to correct height and tighten all hardware.



NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS



- KB BARN PANEL RED/WHT 200201030
- KB CLOCK BRAILLE PANEL 200202280
- KB PICTURE BRAILLE PANEL 200202281
- KB ELECTRONIC PIANO PANEL DKMT 200203224
- KB ELECTRONIC ANIMAL PANEL DKMT 200203226

1G

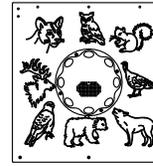


1A

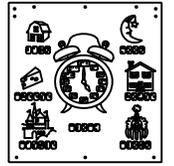


Item	Code	Description	Qty.	
1A	-	PANEL BARN F/KB	1	
1B	-	PANEL BRAILLE CLOCK F/KB		
1C	-	PANEL BRAILLE PICTURE F/KB		
1G	-	ASSY ELECTRONIC PIANO PANEL KB		
1H	-	ASSY ELECTRONIC ANIMAL PANEL KB		
2	-	PLATE F/KB BARN PANEL		1
3	-	KB WING CLAMP		2
7	910918P	CAP HDWR BASE		8
8	910917P	CAP HDWR COVER		8
9	HW162213-1	HDWR PKG KB BARN PANEL DKMT M1/1		1
10	HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS 1/1	1	

1H



1B



**HDWR PKG KB BARN PANEL DKMT M1/1  
HW162213-1**

Item	Code	Description	Qty.
4	200002133	BOLT M8 X 1.25 MALE 27.5MM	7
5	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	20
6	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30MM	7
11	200001938	NUT HEX M10 X 1.50 SS	6
12	200097726	SCREW MACH BUTTONHEAD M10 X 1.5 X 38MM	6

1J



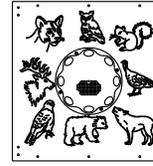
1C



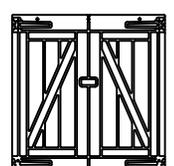
**HDWR PKG F/2SETS O/CLAMPS 1/1  
HW2CLMPSET-1**

Item	Code	Description	Qty.
13	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	4
14	200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	4
15	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	4

1K



1D



**NOTE: PARTS LIST CONTINUED ON SHEET 3**

**Application**

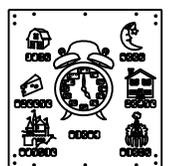
- Installed above or below deck.

**Installation Instructions (Deck Mount)**

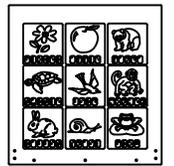
1. Loosely attach clamps (item 3) to posts.
2. Attach plate (item 2) to panel (item 1) as shown in SECTION A-A.
3. Loosely attach panel (item 1) & plate (item 2) to clamps as shown in SECTION B-B.
4. Attach panel (item 1) to deck edge as shown in SECTION C-C.
5. Tighten all hardware to ensure tight fit.

NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

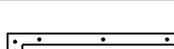
1E



1F

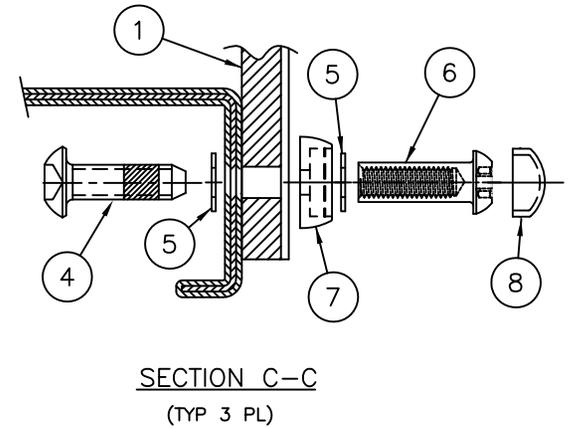
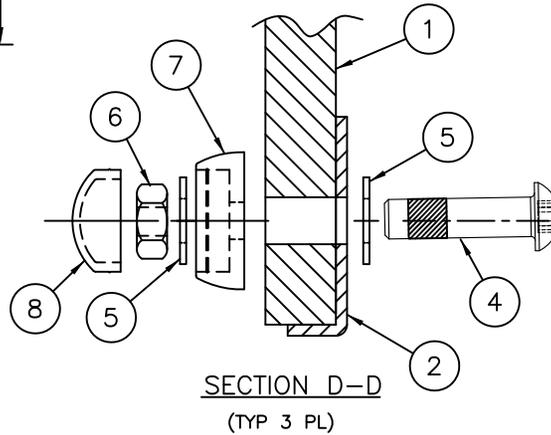
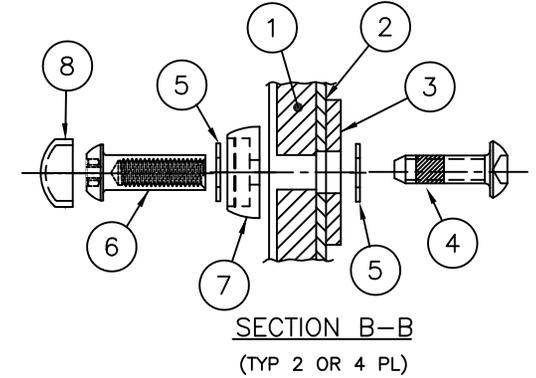
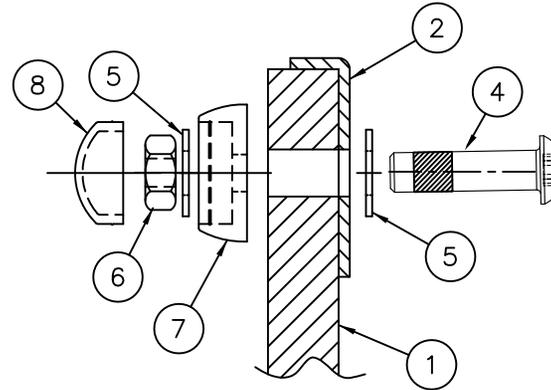
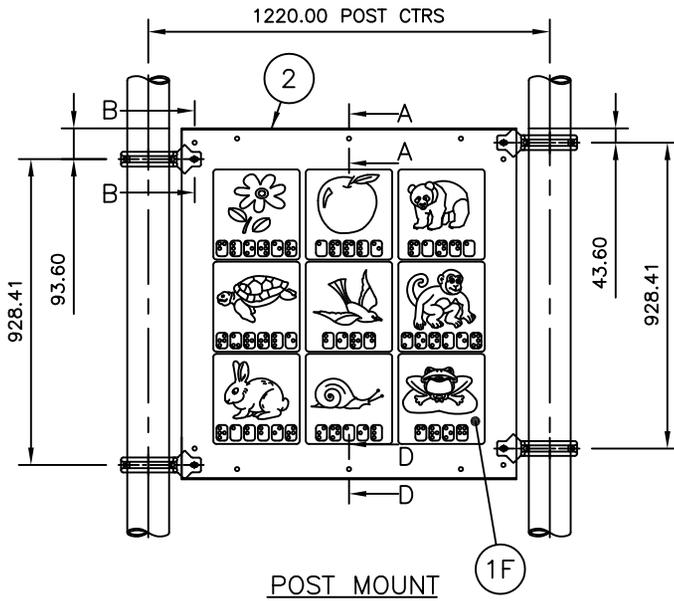


2



### Installation Instructions (Post Mount)

1. Loosely attach clamps (item 3) to posts.
2. Attach plate (item 2) to panel (item 1) as shown in SECTIONS A-A & D-D.
3. Loosely attach panel (item 1) & plate (item 2) to clamps as shown in SECTION B-B.
4. Tighten all hardware to ensure tight fit.



NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS



HDPE FUN PANELS F/KB

200162228  
KB800031H  
Sheet 3 of 3

NOTE: PARTS LIST CONTINUED FROM SHEET 1

AUTHORIZED BY: 26SEPT16  
Teena Merritt

KB BARN PANEL RED/WHT PTMT 200202473  
KB CLOCK BRAILLE PANEL PTMT 200202332  
KB PICTURE BRAILLE PANEL PTMT 200202333  
KB ELECTRONIC PIANO PANEL PTMT 200203225  
KB ELECTRONIC ANIMAL PANEL PTMT 200203227

Item	Code	Description	Qty.
1D	-	PANEL BARN F/KB	1
1E	-	PANEL BRAILLE CLOCK F/KB	
1F	-	PANEL BRAILLE PICTURE F/KB	
1J	-	ASSY ELECTRONIC PIANO PANEL KB	
1K	-	ASSY ELECTRONIC ANIMAL PANEL KB	
2	-	PLATE F/KB BARN PANEL	2
3	-	KB WING CLAMP	4
7	910918P	CAP HDWR BASE	10
8	910917P	CAP HDWR COVER	10
9	HW185464-1	HRDW PKG KB BARN PANEL PTMT M1/1	1
10	HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS 1/1	1

HDWR PKG KB BARN PANEL PTMT M1/1  
HW185464-1

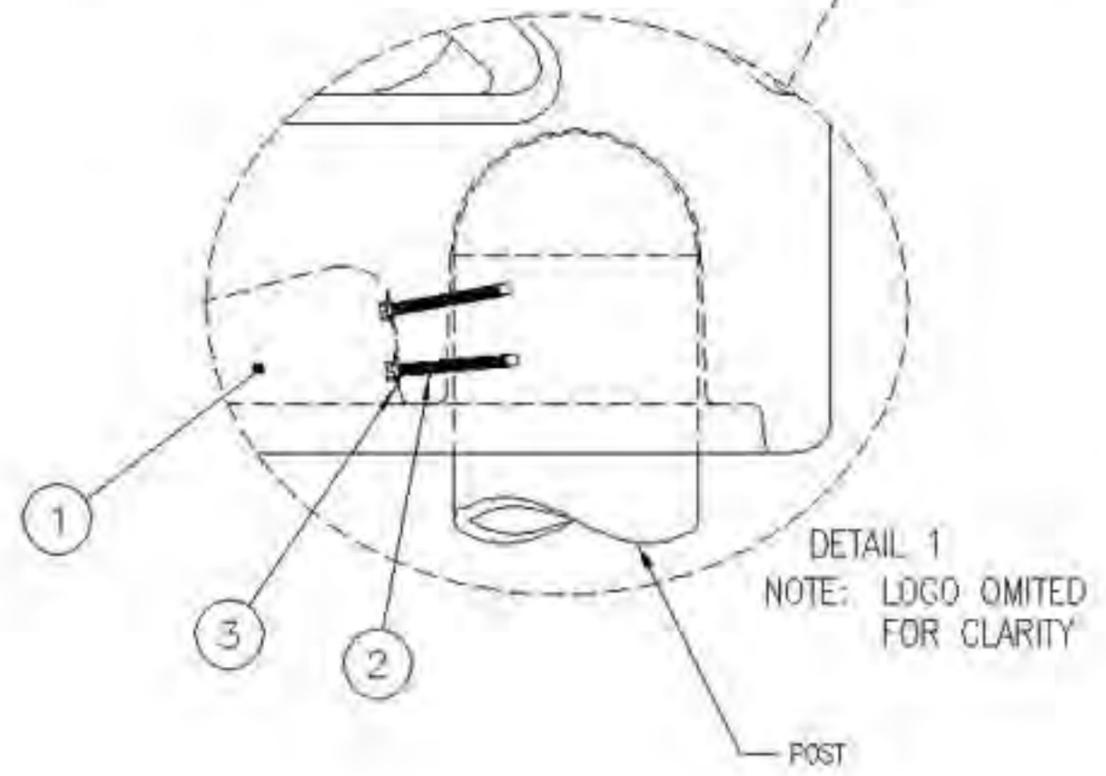
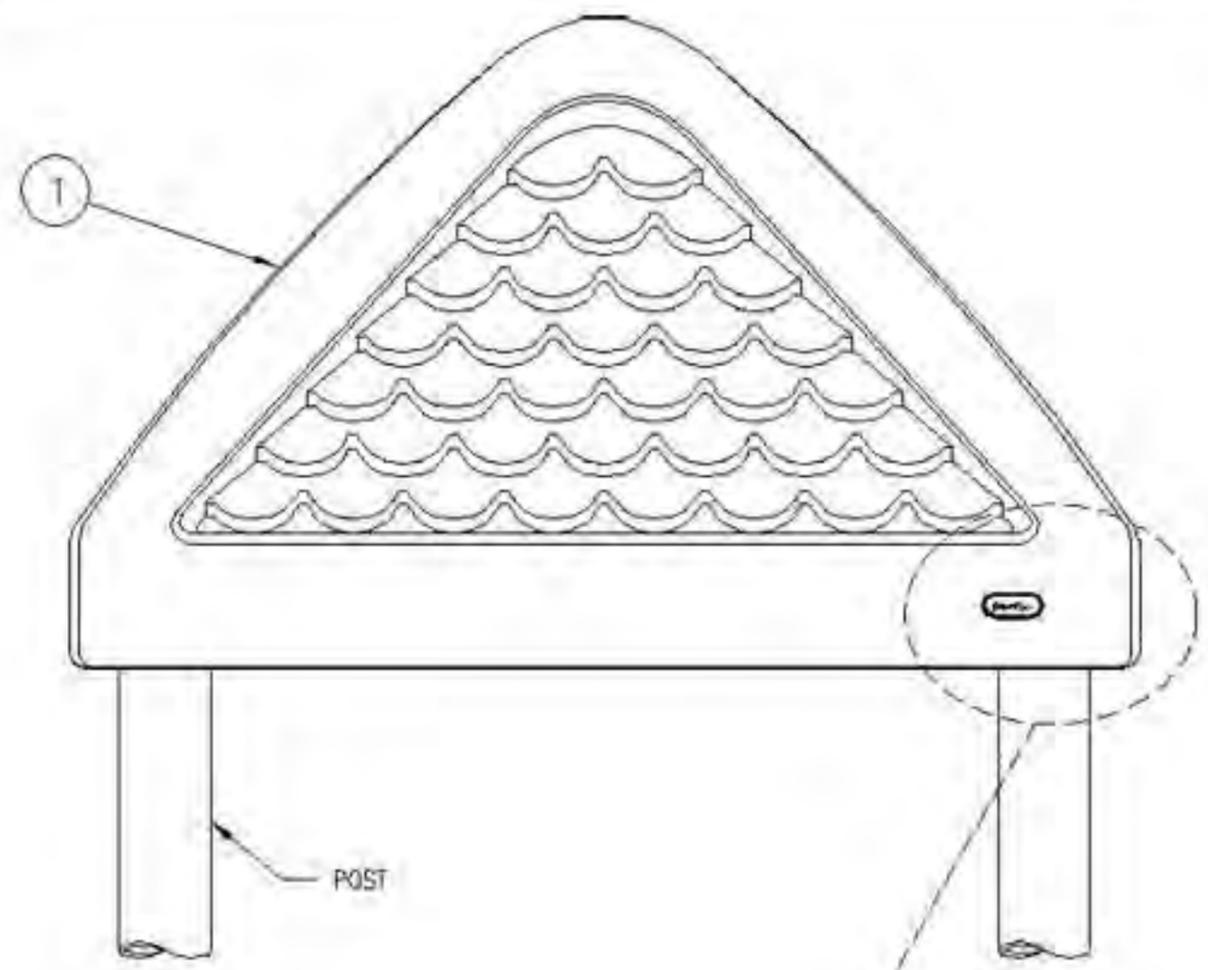
Item	Code	Description	Qty.
4	200002133	BOLT M8 X 1.25 MALE 27.5MM	7
5	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	20
6	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30MM	7
11	200001938	NUT HEX M10 X 1.50 SS	6
12	200097726	SCREW MACH BUTTONHEAD M10 X 1.5 X 38MM	6

HDWR PKG F/2SETS O/CLAMPS 1/1  
HW2CLMPSET-1

Item	Code	Description	Qty.
13	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	4
14	200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	4
15	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	4

**SQUARE ROOF**  
200007137

AUTHORIZED BY  
*Chris M. [Signature]* 47JAND1



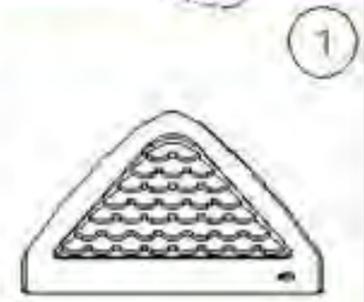
Item	Code	Description	Qty.
1	-	ROOF F/KB	1
2	200002002	SCREW DRILL HEX HEAD M6.3 X 1.81 X 65mm	8
3	200002057	WASHER FLAT M6 17.5 X 7.5 1.5mm	8

**Application AGE GROUPS (2-12 YEAR OLDS)**

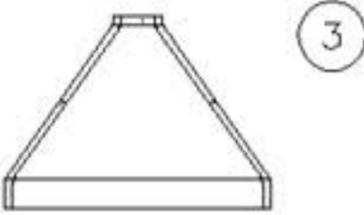
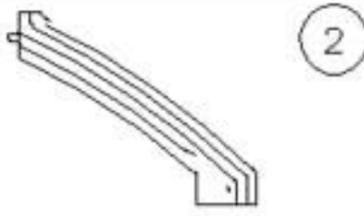
- Two roofs cannot share the same posts.
- If an adjacent deck is higher than the one under the roof, The height of the roof should be measured from the highest deck surface.

**Installation Instructions**

- Lower roof onto previously positioned posts and fasten with hardware (Refer to Detail 1).



AUTHORIZED BY: 17JUN08  
*Shawn Slinkard*



## HEX ROOF 200007056

Item	Code	Description	Qty.
1	-	CUPOLA F/ KB HEX ROOF	1
2	-	RIB F/ KB HEX ROOF	6
3	-	WEDGE F/ KB HEX ROOF	6

## HDWR BAG F/KB HEX ROOF (MM) 200007768

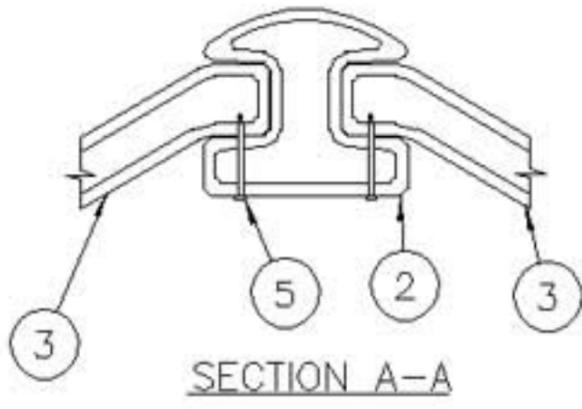
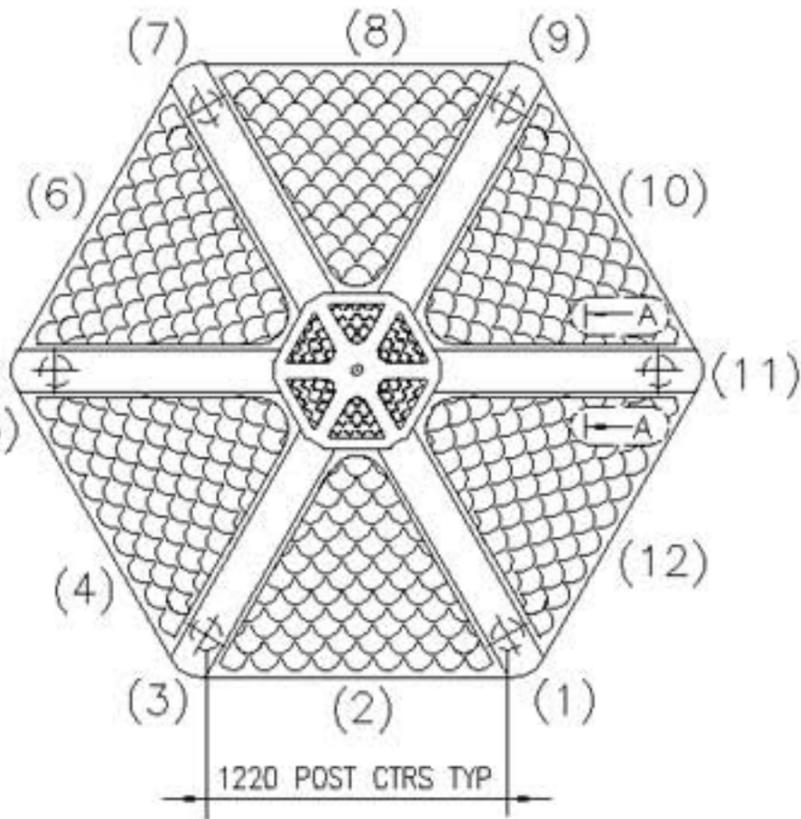
Item	Code	Description	Qty.
4	200002002	SCREW DRILL HEX HEAD M6 .3 X 1.81 X 65mm	6
5	200000990	SCREW DECK S.S. #10 X 76mm 90000A257	30
6	200001163	ROBERTSON DRIVER BIT #2 7185A22	1

### Application

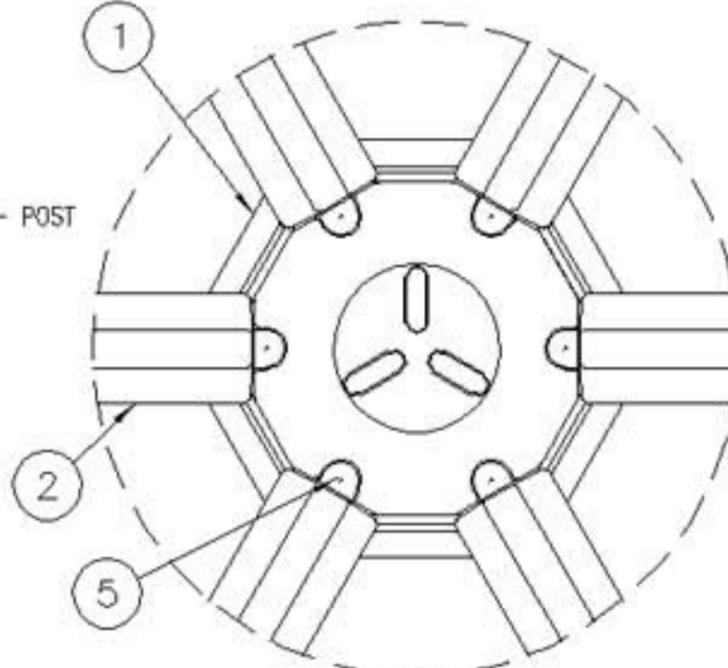
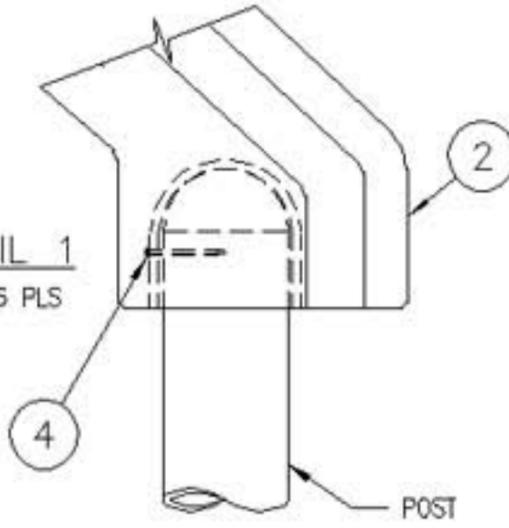
- HEX ROOF CANNOT BE MOUNTED ANY OTHER DECK SHAPE THAN HEXAGONAL.
- ROOFS SHOULD ALWAYS ATTACH TO THE TALLEST POSTS ON THE STRUCTURE.
- THIS INSTALLATION REQUIRES AT LEAST THREE INSTALLERS.

### Installation Instructions

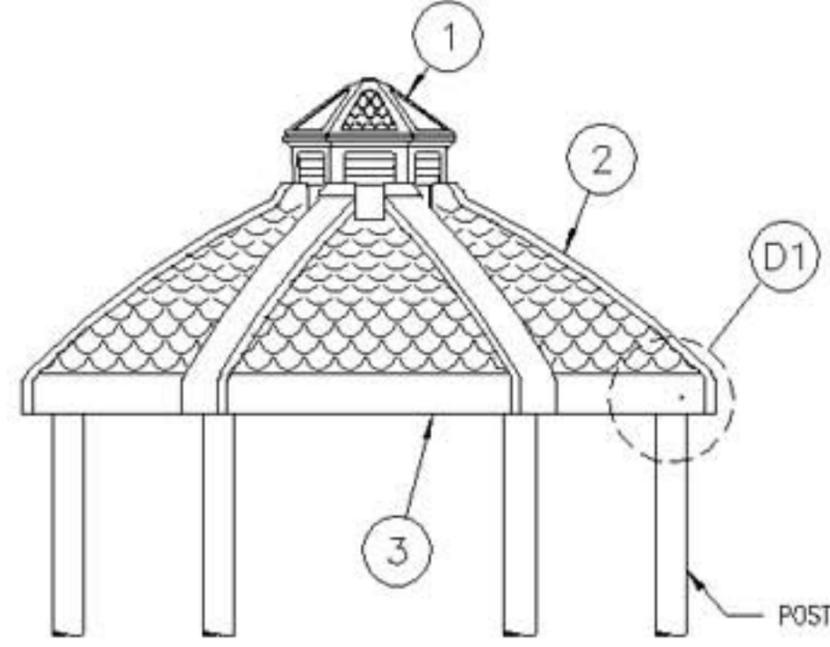
1. Locate two Ribs and a Wedge section. Assemble by inserting the side edge of the wedge section into each of the two ribs. Have an installer stand in the middle of the deck to hold the center of the roof up as it is being assembled. HINT: If you have installed multi-level decks under the Hex Roof, the number (1) position will be located on a post associated with the highest deck. If not, any post will be a fine starting point. Move the assembly into place by lowering it onto two posts.
2. Assemble one rib to another wedge section, then to the previous assembly. The wedge will interlock into the rib first. Lower the rib end onto the next post. Repeat previous steps until all wedges and ribs have been assembled.
3. Lower the Cupola into the center opening at the top of the roof. Once in place, you will notice that each rib will rest in the recessed areas under the Cupola. If they do not, some adjustment may be required, such as, directing the rib up toward the Cupola. Once a rib is positioned correctly, fasten it to the Cupola as shown in the underside view of the roof. See SECTION A-A. Repeat at all ribs.
4. Notice the wedge sections are still loose. Center each wedge between the ribs. Push the Wedge upwards toward the Cupola then fasten the ribs to the wedges at all divot locations using item 5. (Divot locations on upper portion of Rib. Total 4 per rib.)
5. Secure Roof to posts with item 4 - one per post. See DETAIL 1. (Make sure each rib is pushed down on the post as much as possible before fastening it to the post.)



DETAIL 1  
TYP. 6 PLS



UNDERSIDE VIEW OF ROOF





# SPINFINITY – STANDING VERSION

200160544  
KB900022G-S1  
Sheet 1 of 6

## SPINFINITY STANDING VERSION 200203394

Item	Code	Description	Surf. Mt. Qty.	Ing. Qty.
1	-	STANDING SPINFINITY FRAME	1	1
2	-	SUPP TOP CNTR STANDING SPINFINITY	1	1
3	-	STANDING PLATFORM F/SPINFINITY	1	1
4	200157814	BEARING SELF ALIGN FLNG MT F/SPINFINITY	1	1
5	200182723	SHAFT TOP 60.3 F/SITTING SPINFINITY SUPP	1	1
6	200157849	CAP W/HOLE F/SPINFINITY	1	1
7	-	ASSY LOWER SURF. MT. F/SPINFINITY	1	1
8	-	EXTENSION INGROUND F/SPINFINITY	0	1
9	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100MM	4	0

## HDWR BAG F/STANDING SPINFINITY 908816

Item	Code	Description	Surf. Mt. Qty.	Ing. Qty.
10	200058373	GASKET F/PB PLATE (LARGE)	2	2
11	200196292	DOORKNOB FOR NRG CONNECTOR UNP	2	2
12	200196290	NRG CAST CONNECTOR BASE & COVER ALUM	2	2
13	200142930	ROD THREADED M8 X 100 MM-PARTS ROOM	4	4

## HDWR BAG F/STANDING SPINFINITY HWS908816-1

Item	Code	Description	Surf. Mt. Qty.	Ing. Qty.
14	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25 MM	3	3
15	200002030	SCREW MACH BUTTONHEAD M10 X 1.50 X 30 MM	8	8
16	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	10	10
17	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30 MM	10	10
18	200008483	WASHER BOWED M11 23.5 X 11.7 X 1.57 MM	11	11
19	200002006	SCREW MACH BUTTONHEAD M10 X 1.50 X 16 MM	3	3
20	200002079	WASHER FLAT M11 23 X 12 X 1.6 MM	19	19
21	200097726	SCREW MACH BUTTONHEAD M10 X 1.5 X 38 MM	2	2
22	200002142	BOLT M8 X 1.25 MALE 57.5 MM	2	2
23	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5 MM	6	6
24	200001846	CAP SCREW HEX HEAD M10 X 1.50 X 35 MM	4	4

## Installation Instructions

AUTHORIZED BY:  
TRACY ARCHER 25JULY2015

**NOTE: DO NOT REMOVE ANY PACKING MATERIAL FROM THE LOWER ASSEMBLY (ITEM 7) UNTIL INSTALLATION IS COMPLETE**

1. Prepare footings.

2. Put gasket (item 10) on the Connector Base (item 12) as shown in DETAIL 1. Using the two holes in the Connector Base as a template, drill two  $\varnothing 11\text{mm}$  [ $7/16''$ ] holes through the gasket to allow hardware installation.

3. Attach Doorknob (item 11) to each end of Top Support (item 2) as shown in DETAIL 2.

4. Drill two  $\varnothing 13\text{mm}$  [ $1/2''$ ] holes for Connector Base through each post at the height above the finished playground surface as shown on SIDE VIEW on sheet 3. Use the Connector Base as a template to mark the position of the holes in the center of the post and at the height specified.

5. Attach Connector Base (with gasket) on the posts as shown in DETAIL 3. Be sure to have both castings facing the same direction so you can slide the top support into place from one direction.

6. Attach bearing (item 4) to top side of the welded on plate of the Top Support (item 2) seen in DETAILS 4 & 5.

7. Attach Top Support to the posts by placing the Doorknob (item 11) in socket of Connector Base (item 12) and install Connector Cover (item 12) using hardware as shown in DETAIL 6.

8. Attach the top shaft (item 5) to the standing frame (item 1) as shown in DETAIL 4.

**BEFORE PROCEEDING: PLEASE NOTE, IT IS IMPORTANT NOT TO TILT THE BEARING ON THE LOWER ASSEMBLY. TILTING THE BEARING MORE THAN 3 DEGREES FROM THE SHAFT ON WHICH IT IS ASSEMBLED COULD RESULT IN DAMAGING THE BEARING AND/OR BEARING SEALS.**

9. For inground installation, place the inground extension (item 8) in the footing hole and then attach to the lower assembly (item 7) as shown in DETAIL 7.

For surface mount installation, position the lower assembly (item 7) in the approximate final location as shown on SHEET 3 (on the left).

10. Carefully lift the standing frame (item 1) and insert the top shaft (item 5) through the bearing (item 4) as shown in DETAIL 4.

11. Position the lower plate of the standing frame on top of the lower assembly as shown in DETAIL 9. Place the Standing Platform (item 3), with the smooth side up, on top of the lower plate and align the 7 holes with the corresponding holes in the frame and lower assembly. Install hardware as shown in DETAIL 9.

12. Tighten set screws in the self-aligning bearing to lock in the top shaft as shown in DETAIL 4.

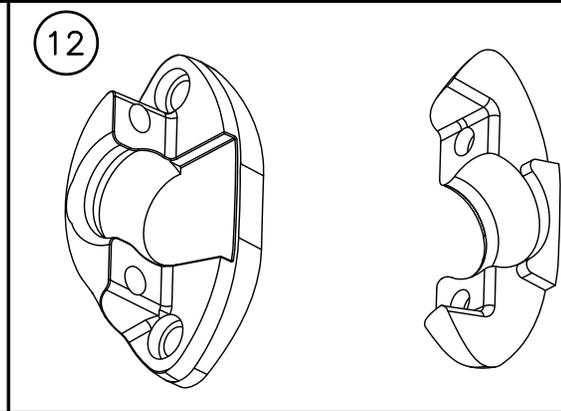
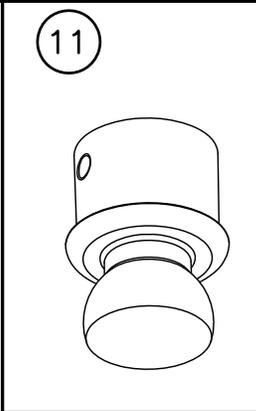
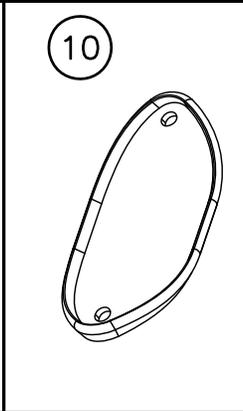
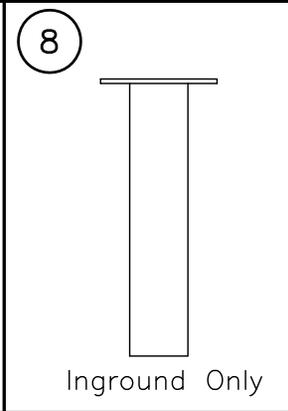
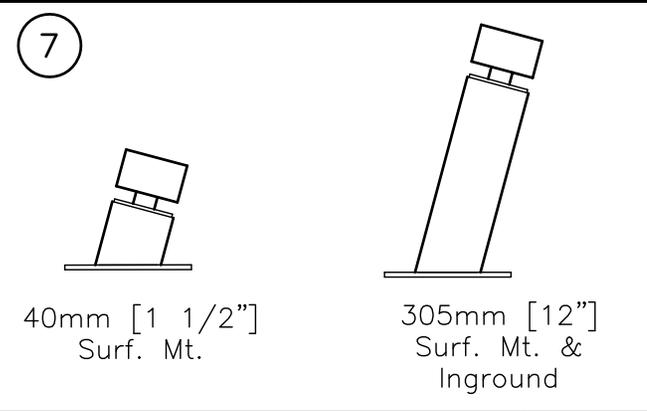
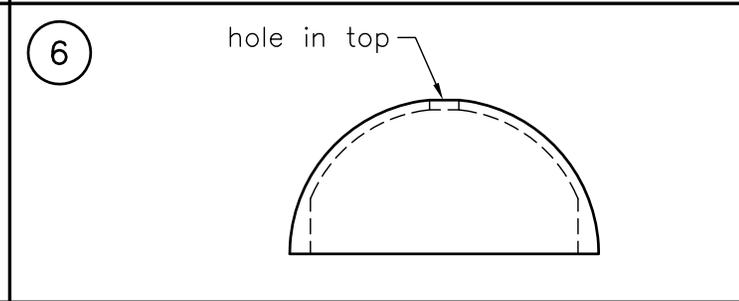
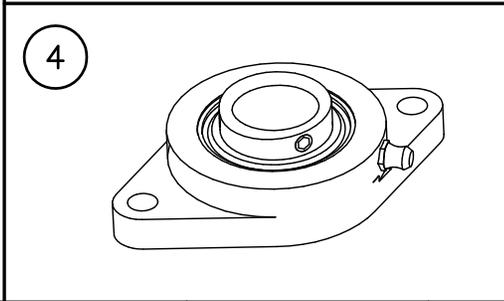
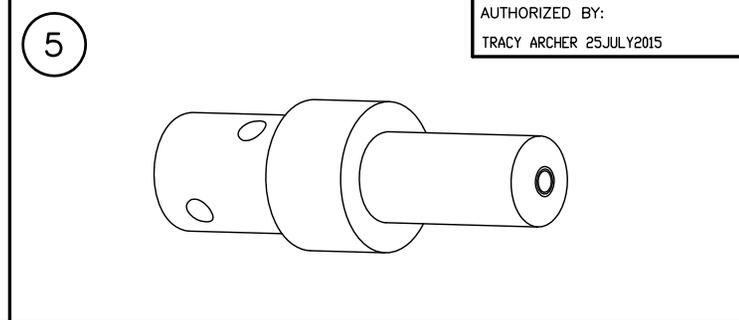
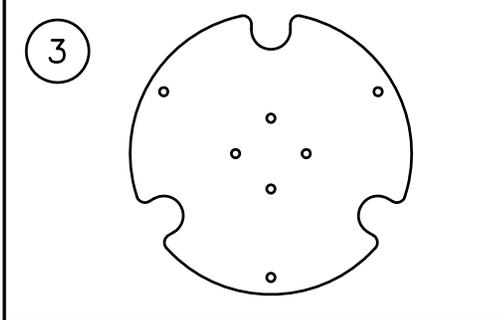
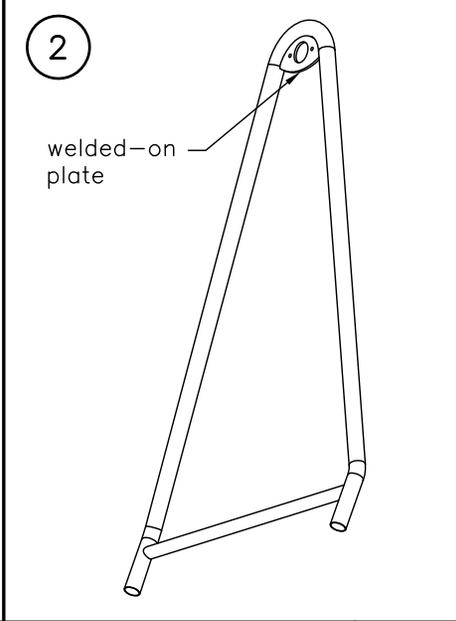
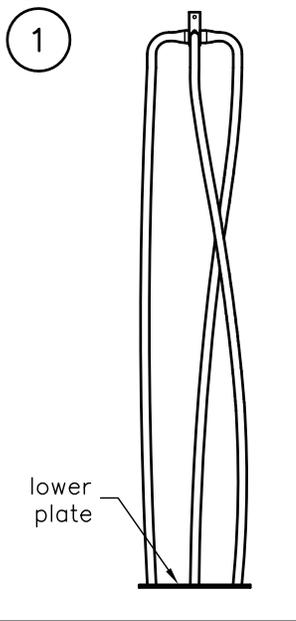
13. For surface mount installation, position the lower assembly in the correct location as shown on SHEET 3, before drilling and installing concrete anchors (item 9) as shown in DETAIL 8.

**FAILURE TO LOCATE COMPONENTS CORRECTLY MAY IMPACT PRODUCT WARRANTY !!!**

14. Install the cap (item 6) on the top shaft as shown in DETAIL 4.

15. Tighten all hardware. Complete footings and install resilient surfacing.

AUTHORIZED BY:  
TRACY ARCHER 25JULY2015



**Application**

-Age Groups: 5 – 12 Years  
-Close adult supervision is recommended for all ages.

**Maintenance**

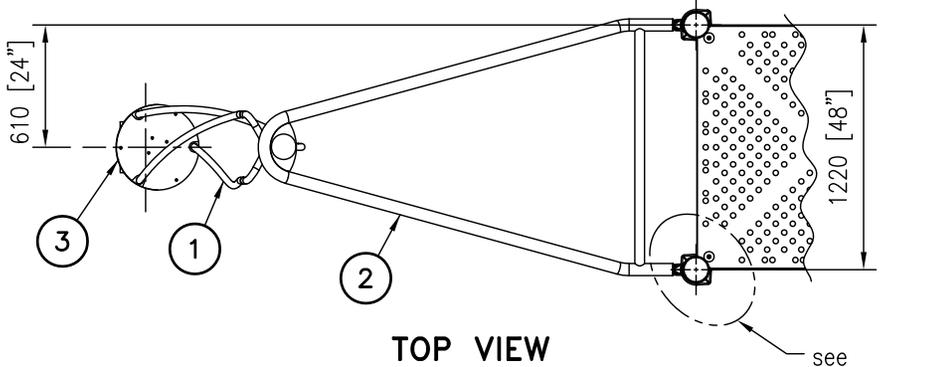
*All fasteners should be inspected and re-tightened if necessary 1 week after installation.*

*On going maintenance intervals will vary according to the amount of use the equipment receives.*

*Recommended inspection interval every 3 months.*

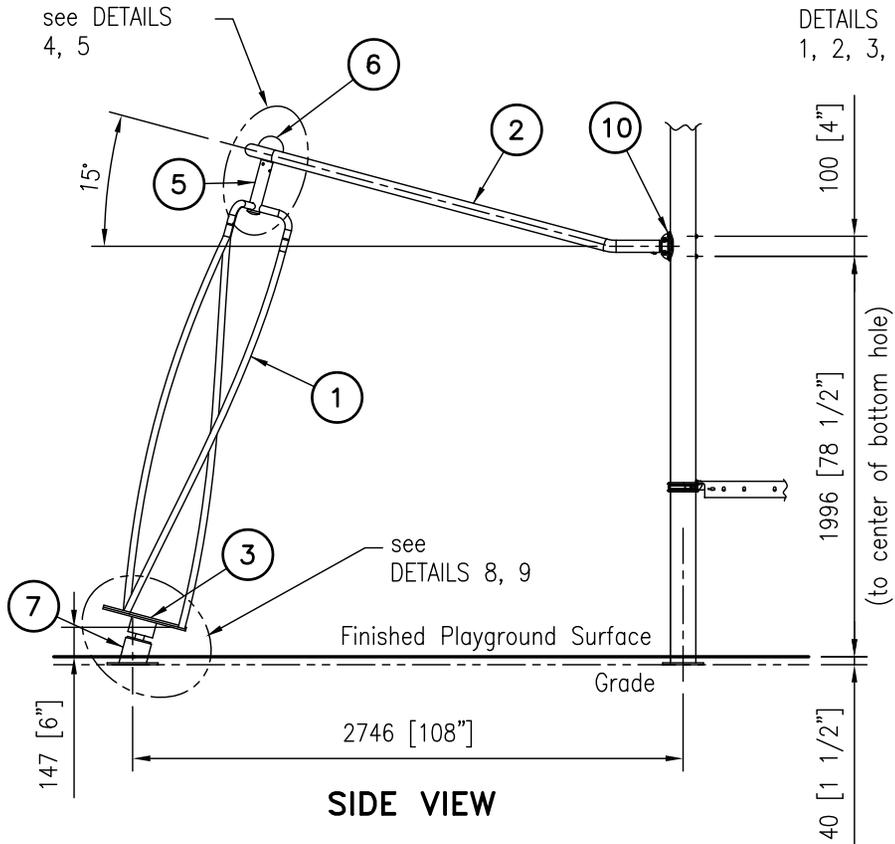
*Remove top cap to grease internal parts.*

*Grease lubrication points annually or as determined by use with automotive grease.*



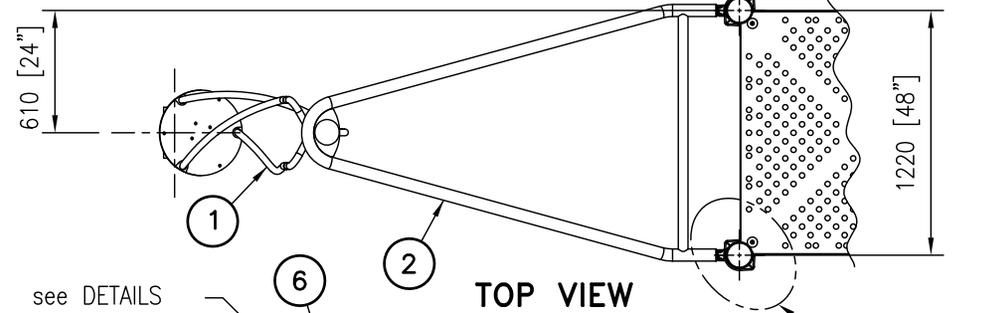
TOP VIEW

see DETAILS  
1, 2, 3, 6



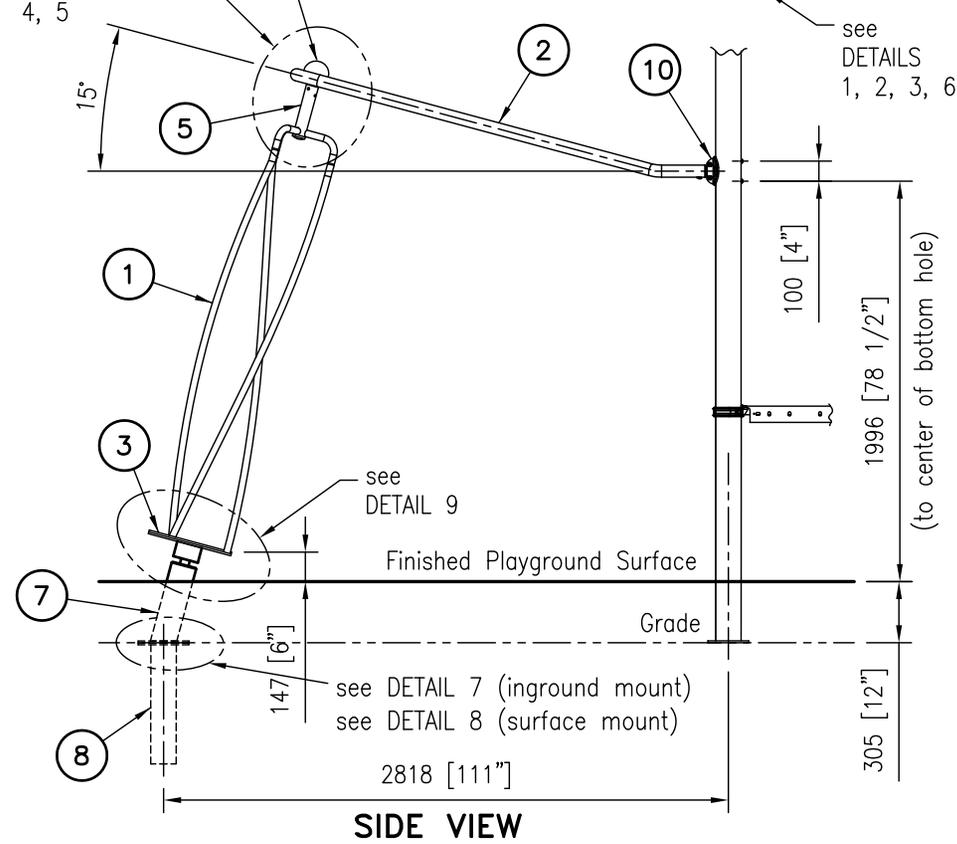
SIDE VIEW

SURFACE MOUNT,  
40mm [1 1/2\"] GROUND COVER



TOP VIEW

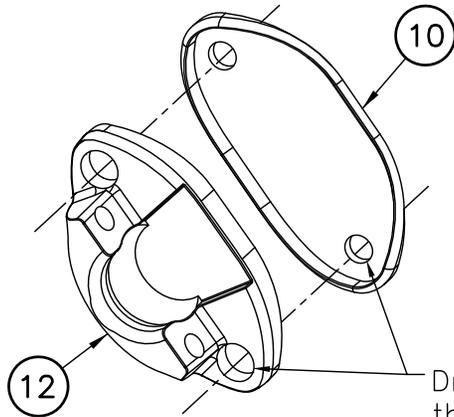
see DETAILS  
1, 2, 3, 6



SIDE VIEW

SURFACE MOUNT & INGROUND MOUNT,  
305mm [12\"] GROUND COVER

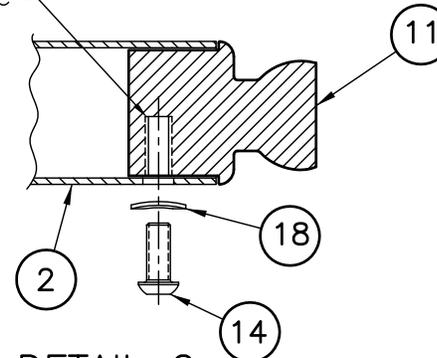
**NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS**



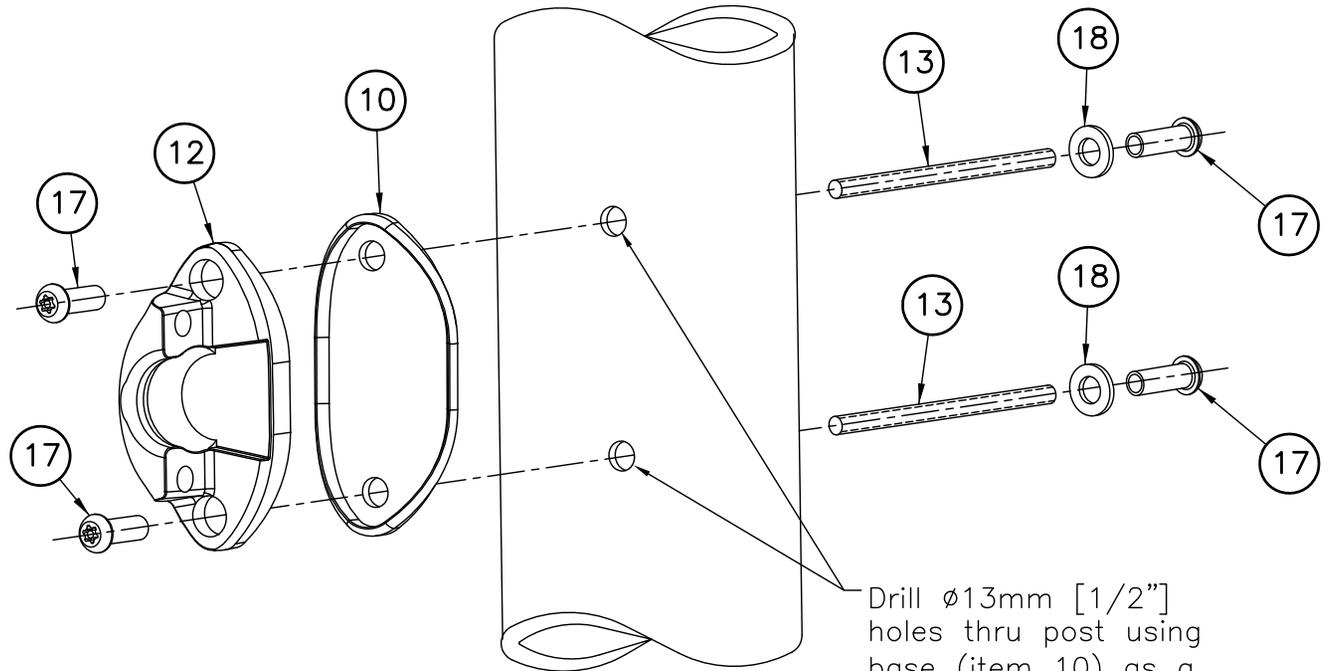
Drill  $\phi 11$  [7/16"] holes  
thru gasket using holes in  
base (item 10) as a template,  
typ 2 holes per gasket

DETAIL 1  
TYP 2 PL

threaded hole

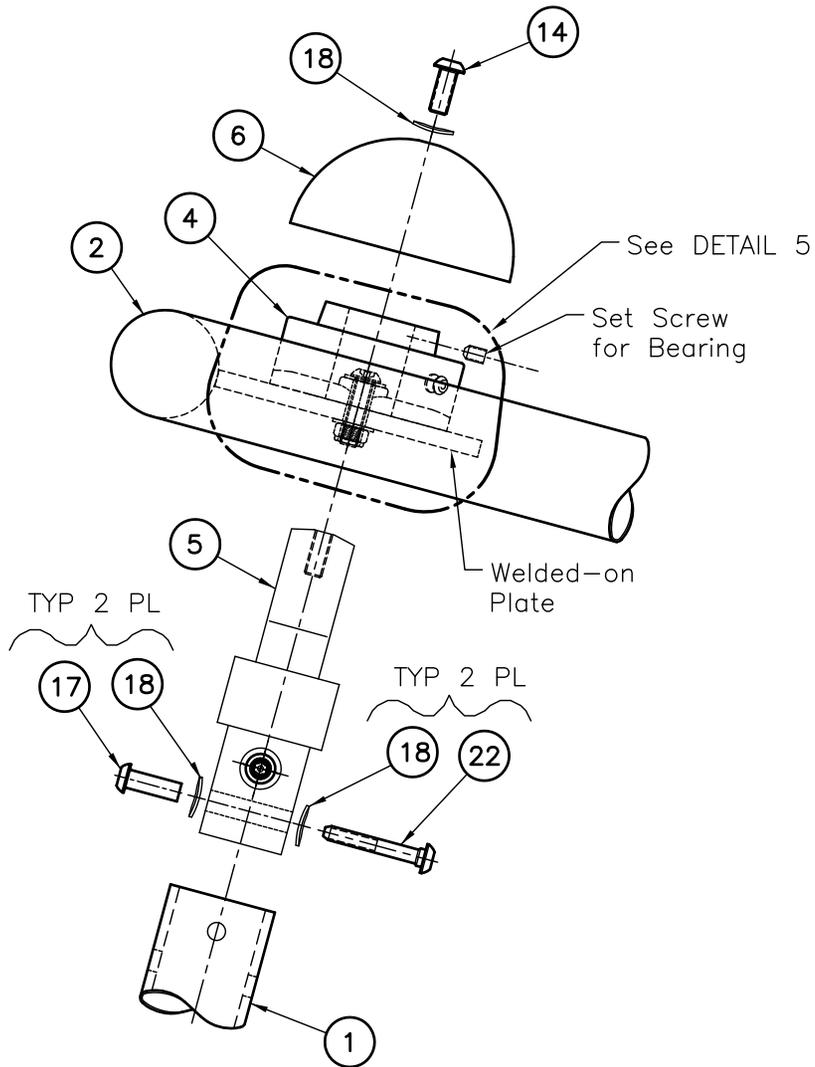


DETAIL 2  
TYP 2 PL

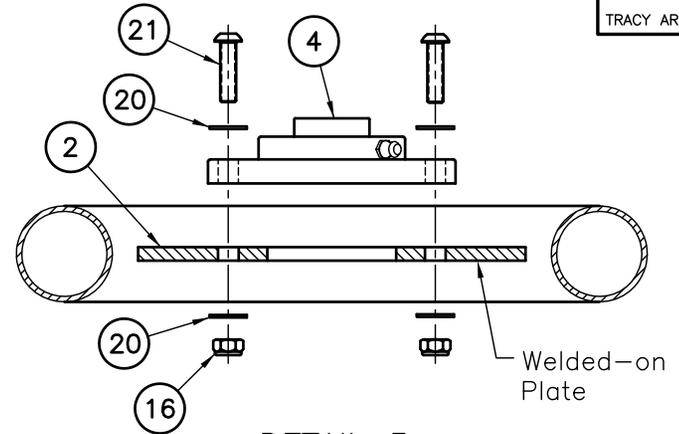


Drill  $\phi 13\text{mm}$  [1/2"]  
holes thru post using  
base (item 10) as a  
template

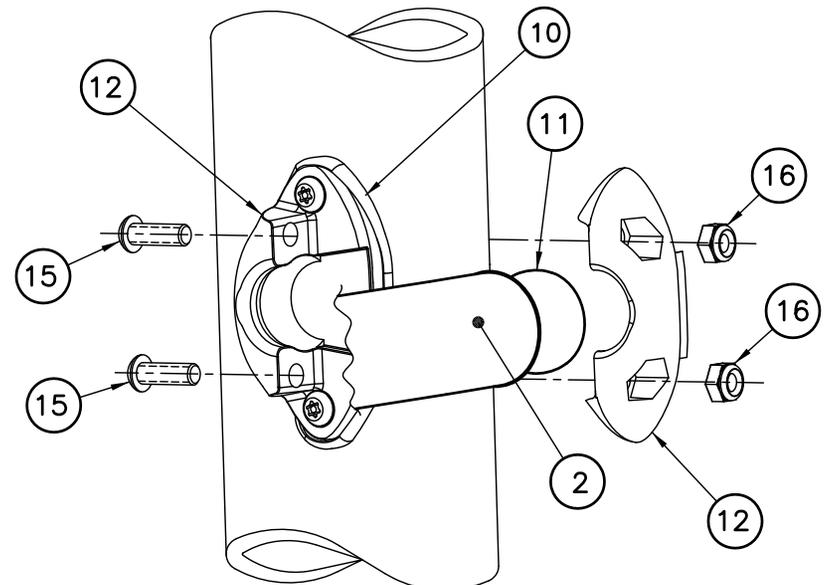
DETAIL 3  
TYP 2 PL



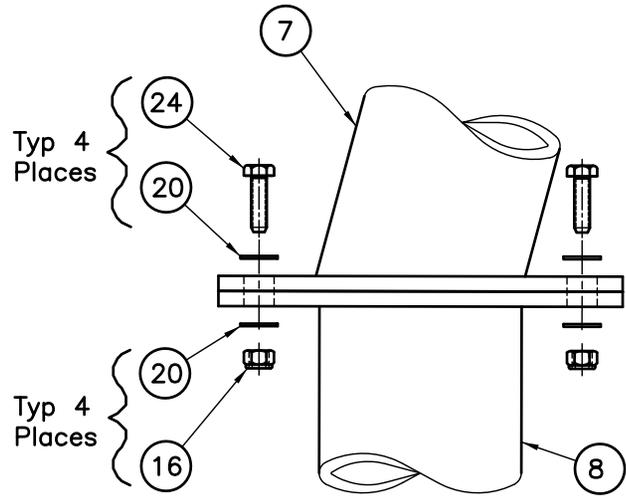
DETAIL 4



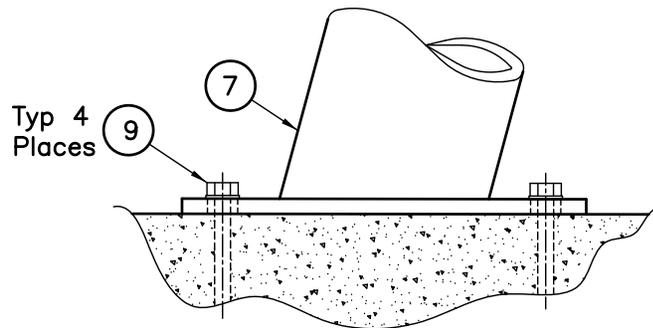
DETAIL 5  
(refer to DETAIL 4)



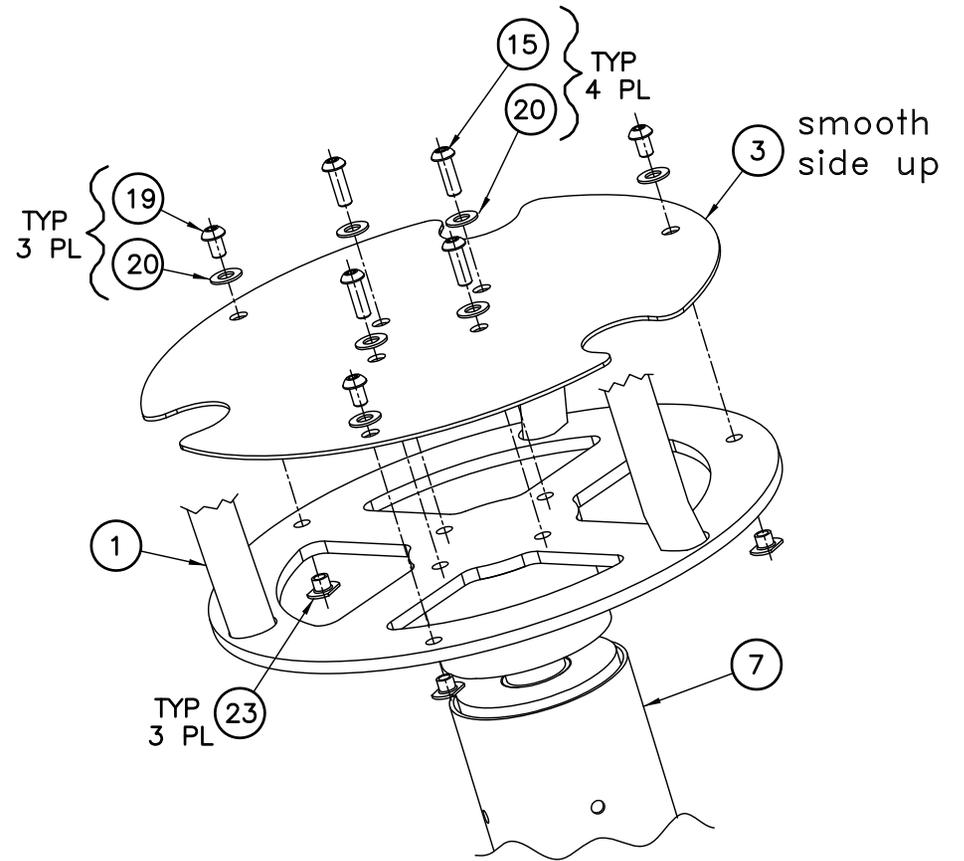
DETAIL 6  
TYP 2 PL



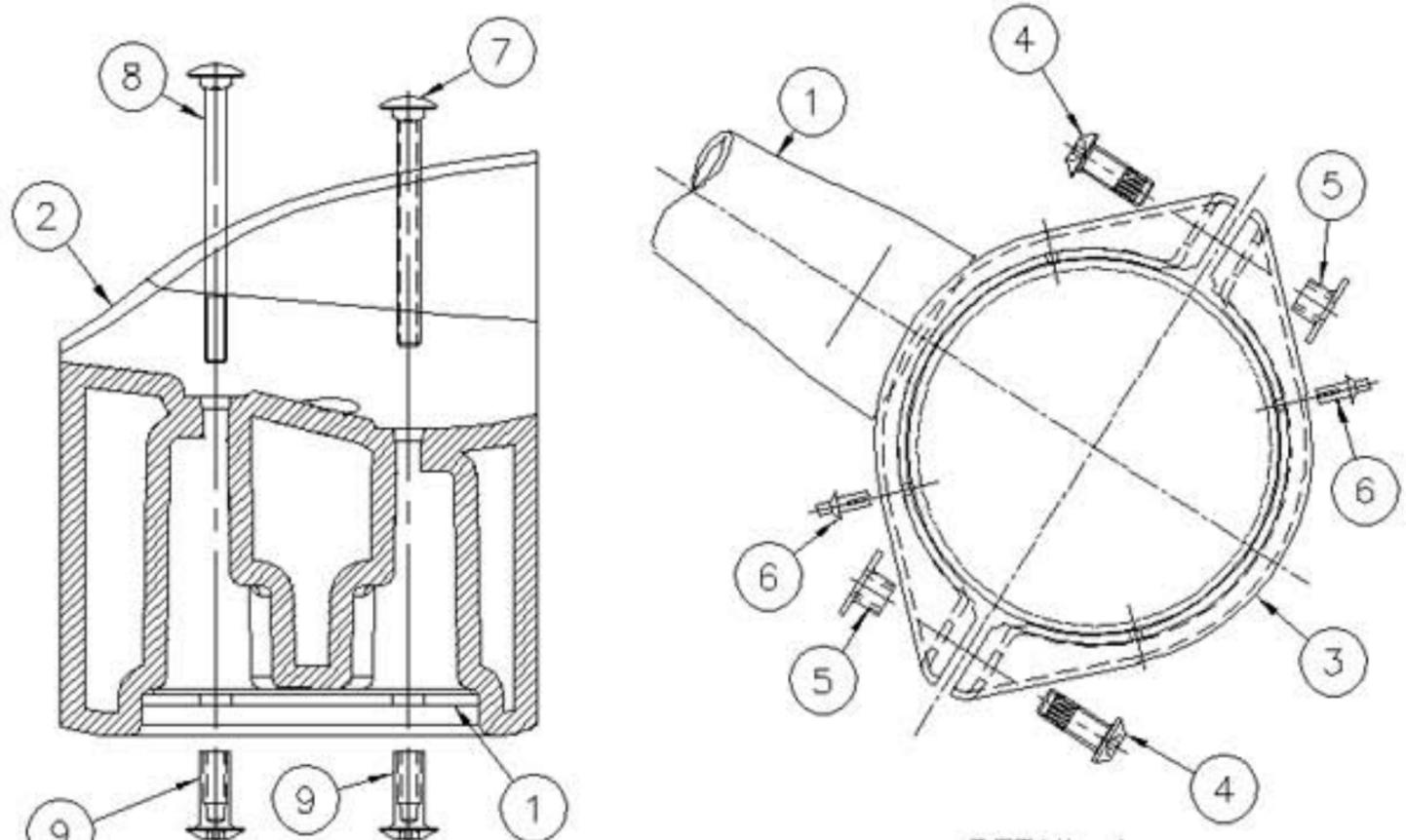
DETAIL 7 (Inground Mount)



DETAIL 8 (Surface Mount)

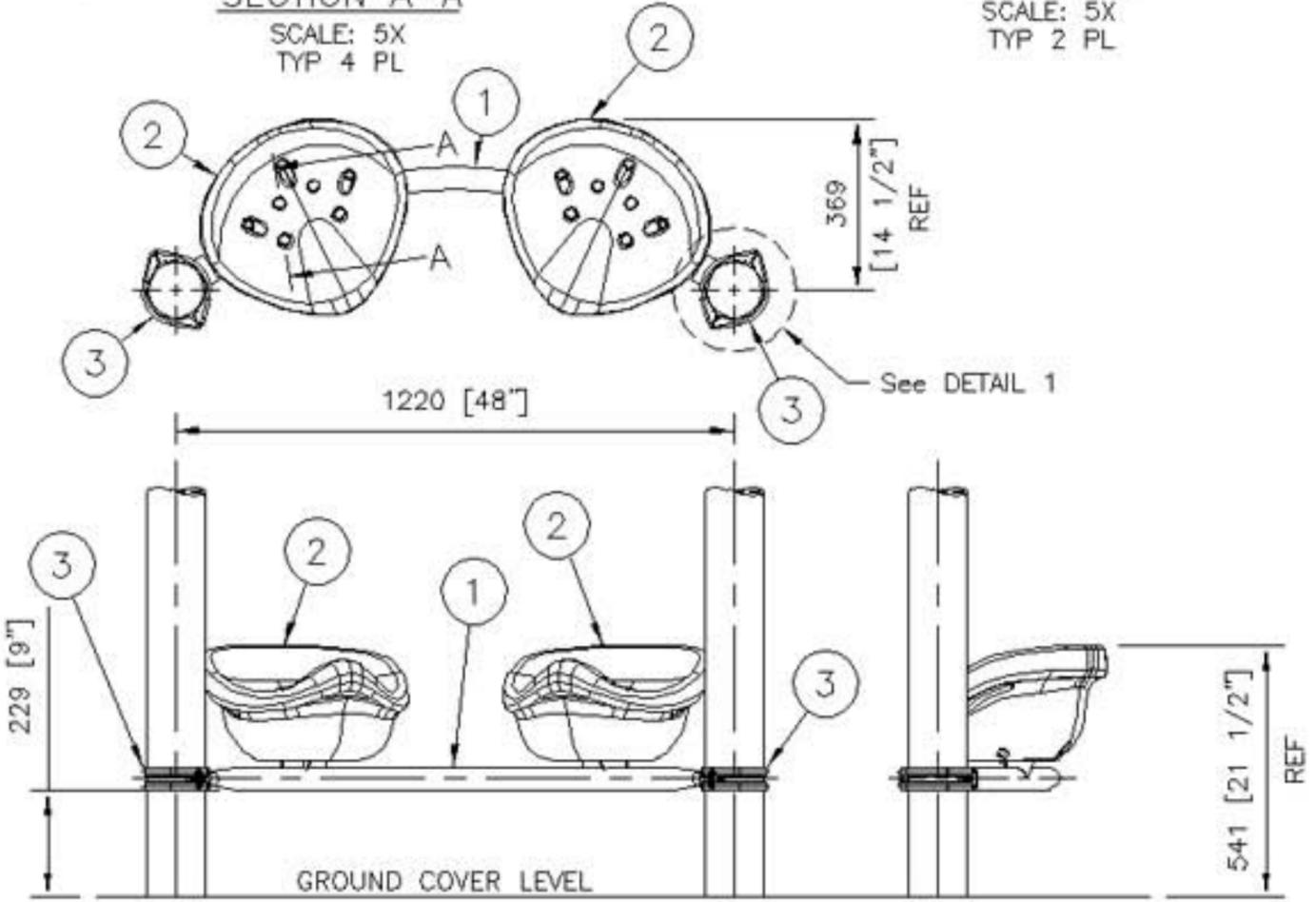


DETAIL 9



**SECTION A-A**  
SCALE: 5X  
TYP 4 PL

**DETAIL 1**  
SCALE: 5X  
TYP 2 PL



[NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS]

**KB HANG OUT**  
200202304

Item	Code	Description	Qty.
1	-	FRAME F/KB HANG OUT	1
2	-	SEAT, SOLO SPINNER	2
3	-	CLAMP HALF W/O WELDED ATTACHMENT	2
4	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	4
5	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	4
6	200000797	HAMMER DRIVE PIN 4.7 X 11.1MM	4

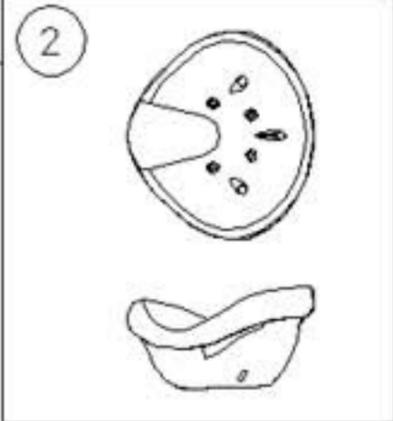
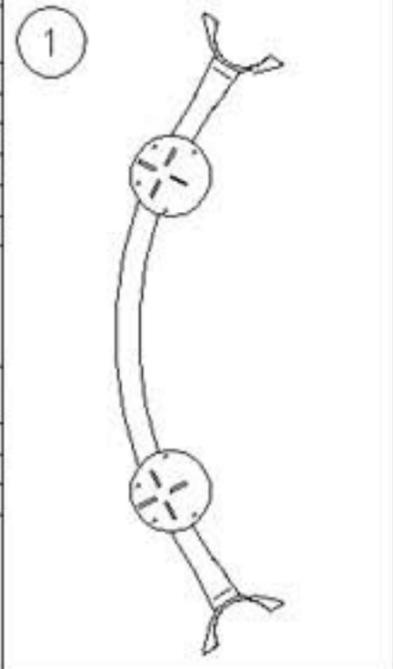
**HDWR BAG F/KB HANG OUT**  
200185063

Item	Code	Description	Qty.
7	200001810	BOLT CARRIAGE M10 X 1.50 X 100MM	4
8	200001814	BOLT CARRIAGE M10 X 1.50 X 120MM	4
9	200001954	BARREL NUT M10 X 1.50 (12.70 DIA X 32MM)	8

**Application**  
Age group: 2 – 12 year olds.  
If installed under a deck, the deck must be minimum 1830 [72"] high.

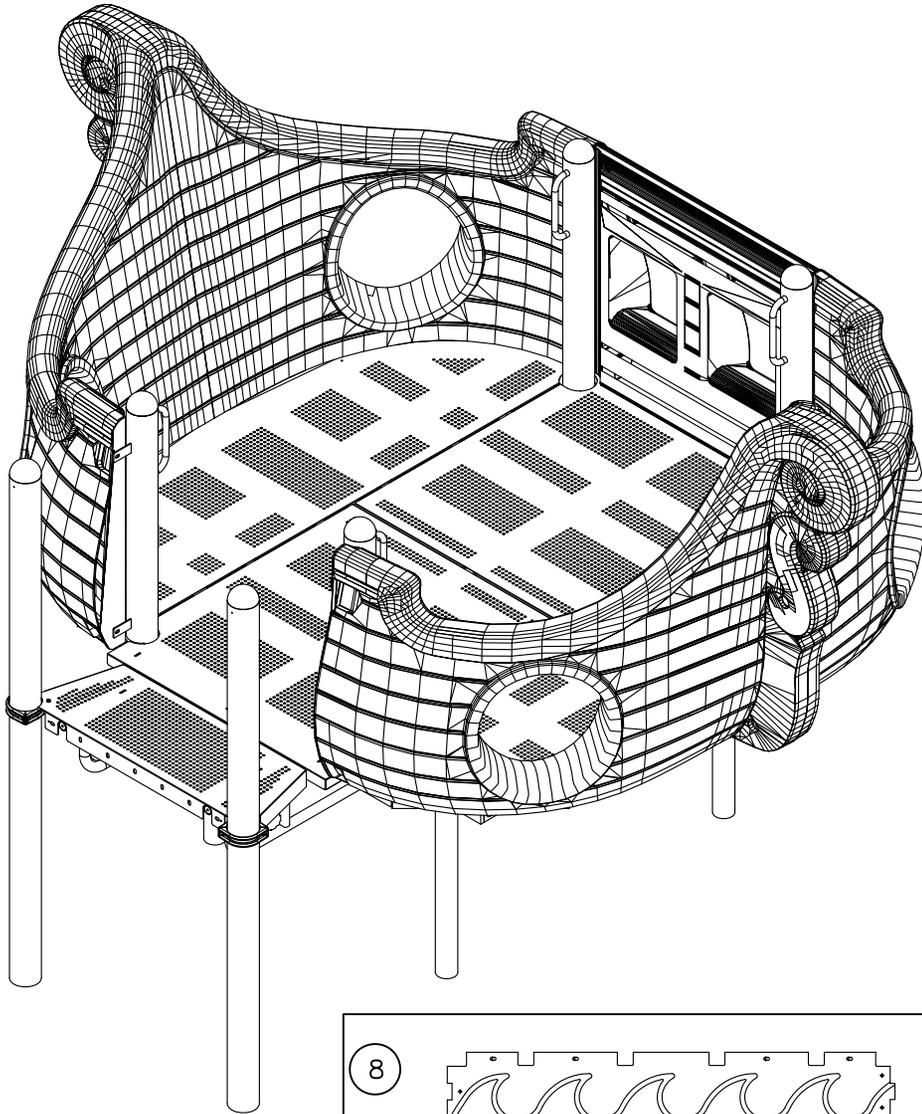
**Installation Instructions**  
1. Attach seats (items 2) to Frame (item 1) using hardware shown in Section A-A.  
2. Attach frame (item 1) to posts as shown in Detail 1.

AUTHORIZED BY:  
*Erii Clanton* 150CT09



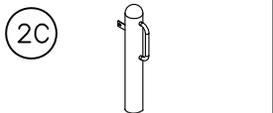
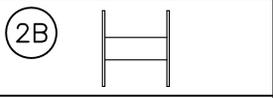
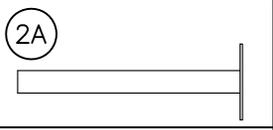
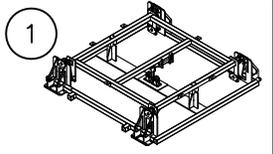
AUTHORIZED BY: 10OCT17

Harold Gabriel



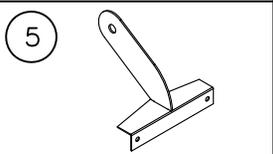
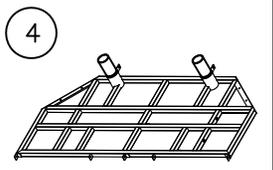
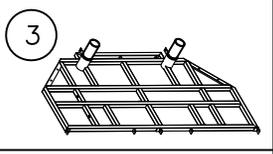
**KB ROCK N SHIP 200202581**

Item	Code	Description	Qty.
1	200196042	MECHANISM ASSY F/ROCKNSHIP	1
2A	902629BLK	TUBE MT. F/KR C-SPRING ING	4
2B	902627BLK	TUBE MT. F/ROCK N SHIP SM305	4
2C	902794P	POST W/HANDLE W/CAP F/ROCK N SHIP	4
3	902631P	ROCKNSHIP FRM STEP SIDE	1
4	902632P	ROCKNSHIP FRM OUTSIDE	1
5	909171P	ROCKNSHIP FRM BRACKET	2
6	909176P	MID BRACE F/ROCKNSHIP	1
7	200196430	ASSY BRACKET SKIRT F/ROCKNSHIP BLU	4
8	200194649	SKIRT A F/ROCKNSHIP	1
9	200194650	SKIRT B F/ROCKNSHIP	1
10	200195554	SKIRT C F/ROCKNSHIP	2
11	909151P	SUPPORT TRNSFR F/ROCKNSHIP	2
12	910600P	DECK A SKIN F/ROCKNSHIP	1
13	910599P	DECK B SKIN F/ROCKNSHIP	1
14	910598P	DECK C SKIN F/ROCKNSHIP	1
15	910597P	DECK TRNSFR F/ROCKNSHIP	1
16	905304P	KB SHP BOW LFT	2
17	905305P	KB SHP BOW RGT	2
18	908482P	KP SHP HULL	1
19	909383P	KB DECK CLAMP	2
20	-	KB SHP CAP COVER	12
21	-	KB SHP CAP BASE	12
22	200007978	ROD THREADED F/TRACK RIDE M10 X 125MM	9



**HDWR PKG ROCK N SHIP L1/2 HW190586-1 (2 REQD)**

Item	Code	Description	Qty.
23	200002079	WASHER FLAT M11 23 x 12 X 1.6MM	59
24	200001945	NUT LOCK HEX NYLON INSERTED M10 x 1.5	23
25	200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	2
26	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	3
27	200002018	SCREW MACH BUTTONHEAD M10 x 1.50 x 25MM	17
28	117007	WASHER 7/16 FLAT 18-8 SS	2
37	300002750	SCREW T-27 TORX ROUND WASHER HD	6



**HDWR PKG ROCK N SHIP L2/2 HW190586-2 (2 REQD)**

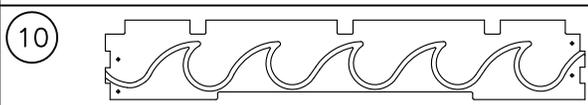
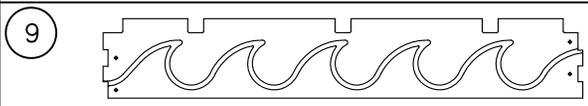
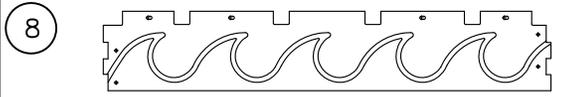
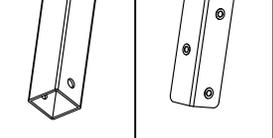
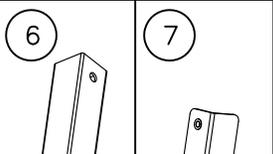
Item	Code	Description	Qty.
29	200002096	WASHER FLAT M10 34 OD x 11 ID x 3MM SS	15
30	200002030	SCREW MACH BUTTONHEAD M10 x 1.50 x 30MM	8
31	200008483	WASHER BOWED M11 23.5 X 11.7 X 1.57MM	2
32	200002014	SCREW MACH BUTTONHEAD M10 x 1.50 x 20MM	4
33	200001954	BARREL NUT M10 1.50 (12.70 DIA X 32MM)	6
34	200001859	CAP SCREW HEX HEAD M10 x 1.50 x 75MM FULL THRD	1
35	200002138	BOLT M8 x 1.25 MALE 42.5MM	4
36	200002133	BOLT M8 x 1.25 MALE 27.5MM	2
38	200002145	BOLT M8 x 1.25 FEMALE 10.3 x 30MM	6
39	200097726	SCREW MACH BUTTONHEAD M10 X 1.50 X 38MM	8

**HW7730-1 (1 REQD)**

Item	Code	Description	Qty.
23	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	8
35	200002138	BOLT M8 x 1.25 MALE 42.5MM	2
36	200002133	BOLT M8 x 1.25 MALE 27.5MM	4
38	200002145	BOLT M8 x 1.25 FEMALE 10.3 x 30MM	4

**HW7733-1 (2 REQD)**

Item	Code	Description	Qty.
23	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	8
33	200001954	BARREL NUT M10 1.50 (12.70 DIA X 32MM)	6
36	200002133	BOLT M8 x 1.25 MALE 27.5MM	4
38	200002145	BOLT M8 x 1.25 FEMALE 10.3 x 30MM	4



NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS



# KB ROCK N SHIP

KB900047D

Sheet 2 of 13

AUTHORIZED BY: 10OCT17  
Harold Gabriel

### Maintenance

All fasteners should be inspected and re-tightened if necessary 1 week after installation.

This unit contains sealed bearings which require minimal maintenance. Ongoing maintenance intervals will vary according to the amount of use the equipment receives.

Recommended inspection interval every 3 months.

Remove skirt to grease internal parts (8 points).

Grease lubrication points as determined by use with automotive grease.

### Installation Instructions

#### FOR INGROUND INSTALLATION:

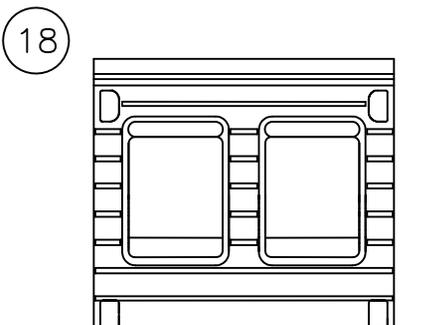
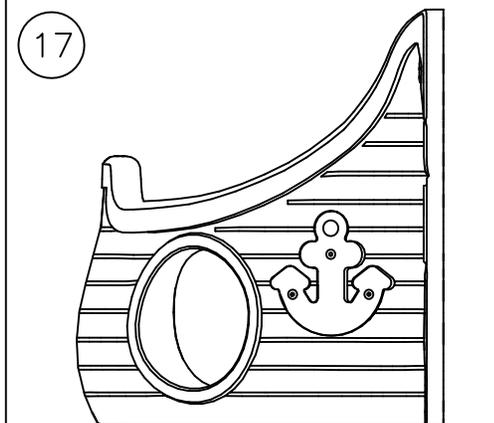
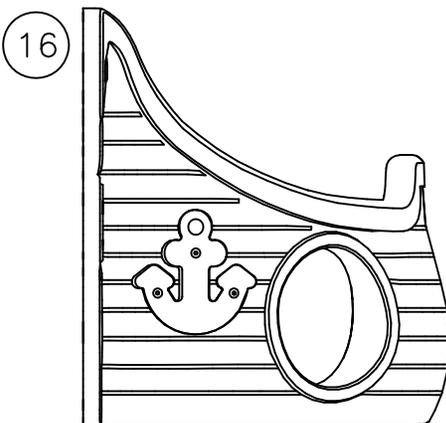
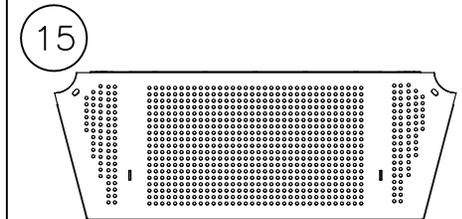
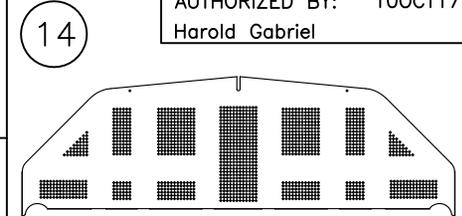
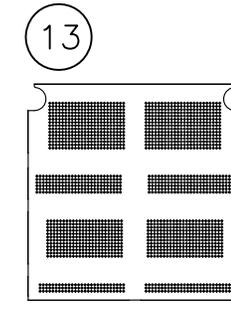
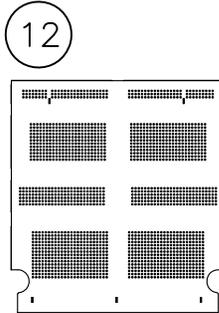
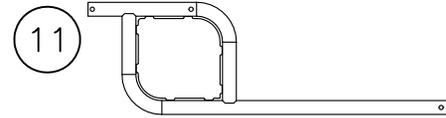
1. Prepare footings. See sheet 13 for locations. Bolt secure foot (Item 2A) to mechanism (Item 1) as shown on sheet 3 (4 places). Place in footing holes.

#### FOR 12" (305mm) GROUND COVER SURFACE MOUNT INSTALLATION:

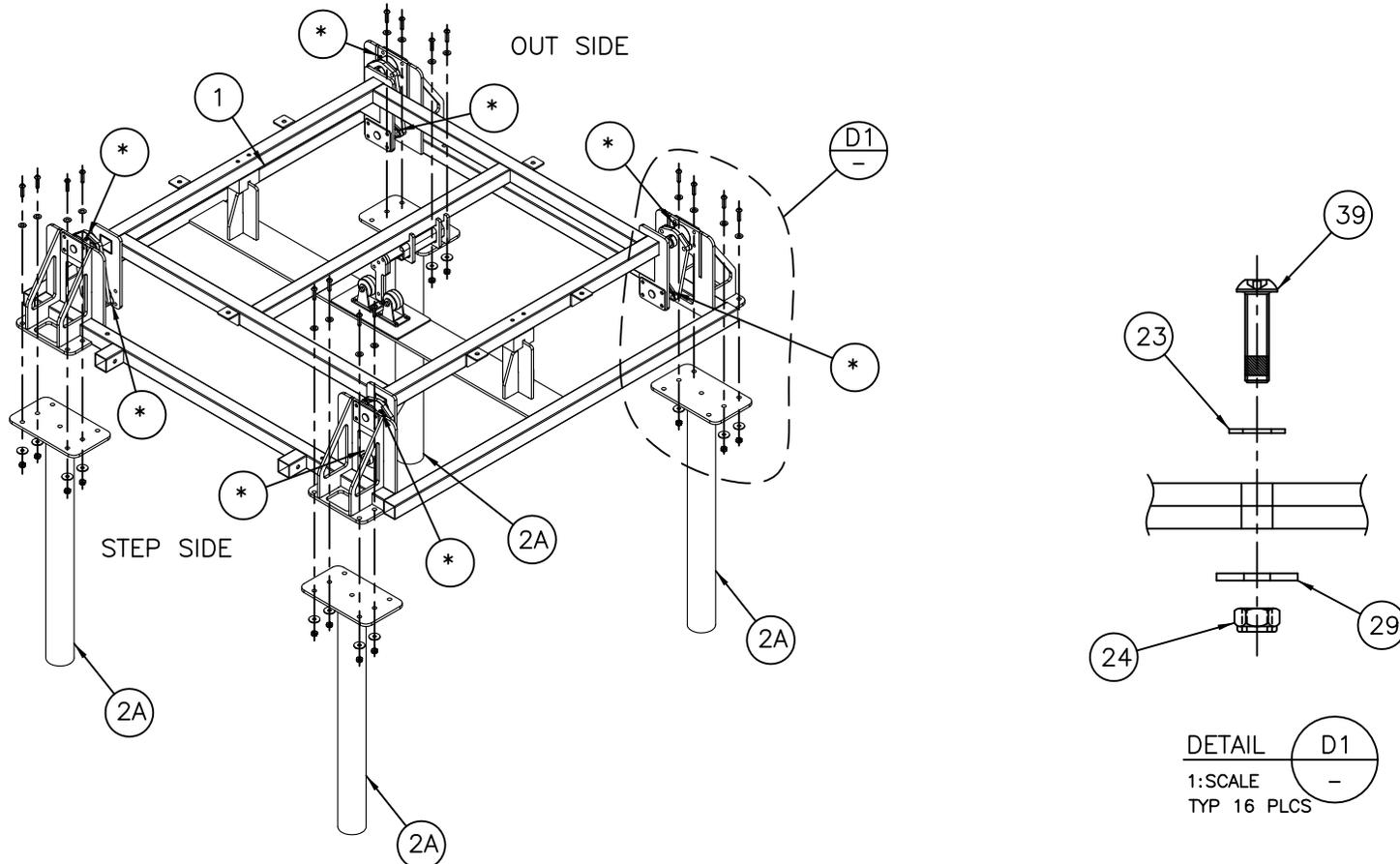
1. Secure foot (Item 2B) to Mechanism (Item 1) as shown on sheet 3 in (4 places). Secure to concrete pad using anchor bolts.

#### FOR 1.5" (40mm) GROUND COVER SURFACE MOUNT INSTALLATION:

1. Secure mechanism (Item 1) to concrete pad using anchor wedges.
2. Attach Frame Step Side (Item 3) to top of mechanism (Item 1); attach posts (Item 2C) to (Item 3) as shown on sheet 4.
3. Attach Frame Outside (Item 4) to top of mechanism (Item 1); attach posts (Item 2C) to (Item 4) as shown on sheet 4.
4. Install Frame to Frame Bracket (Item 5) as shown on sheet 5 (2 places).
5. Install Mid Brace (Item 6) as shown on sheet 5 (1 place).
6. Attach Transfer Deck Supports (Item 11) to mechanism (Item 1) as shown on sheet 6 (2 places).
7. Attach Deck Skin A (Item 12) to Frame Step Side (Item 3) as shown on sheet 7
8. Attach Deck Skin B (Item 13) to Deck Skin A (Item 12) as shown on sheet 8.
9. Attach Deck Skin C (Item 14) to Deck Skin A (Item 12) and Deck Skin B (Item 13) as shown on sheet 9 (2 places).
10. Attach Skirt Brackets (Items 7) to each end of Skirt A (Items 8) 4 places total as shown on sheet 10.
11. Attach Skirt A (Items 8) to Frames (Items 3 & 4) on opposite sides of the Rock N Ship as shown on sheet 10.
12. Attach Skirt B (Item 9) on the outside, to the Brackets (Items 7) that were previously assembled to Skirt A. See sheet 10.
13. Attach Skirt C (Item 10) on the step side, to the Brackets (Items 7) that were previously assembled to Skirt A. See sheet 10.
14. Assemble the transfer deck (Item 15) as shown on sheet 11.
15. Assemble ship bow (Item 16, 17) and hull (Item 18) panels as shown on sheet 12, working from the lowest hardware connection to the highest on each panel.



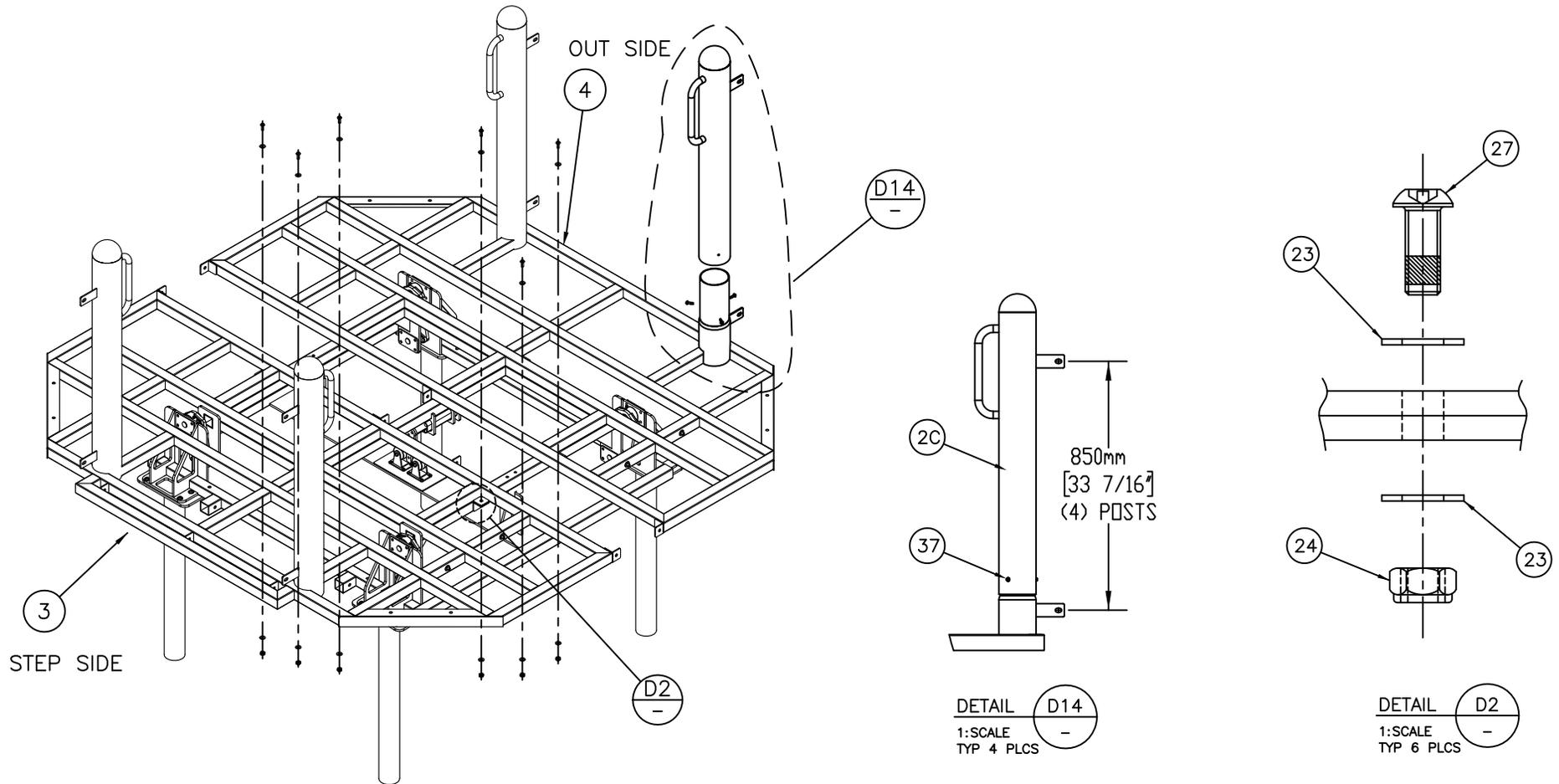
ORIENT AS SHOWN



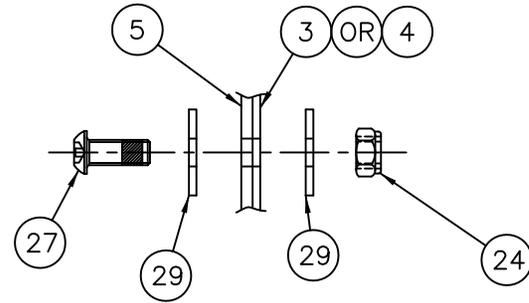
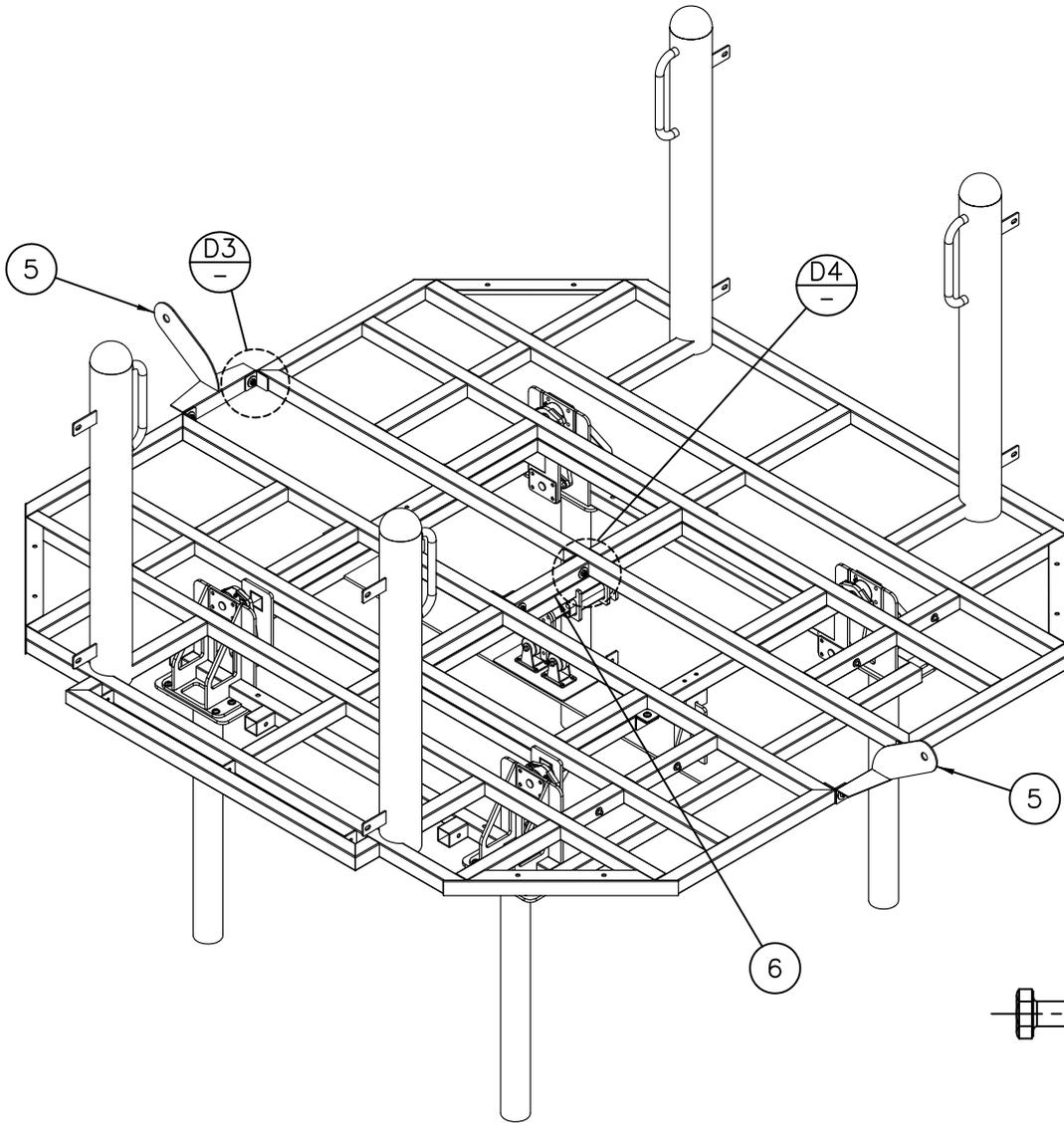
\* LUBRICATION POINTS

DETAIL D1  
1:SCALE -  
TYP 16 PLCS

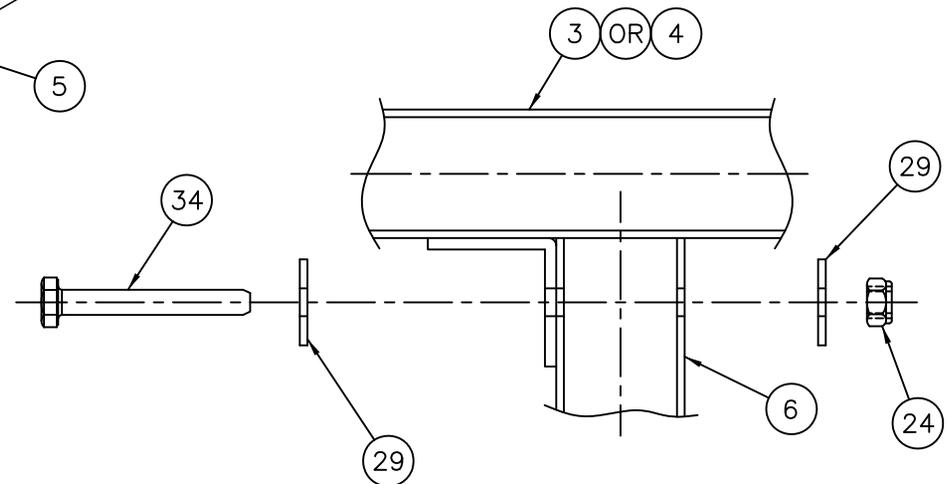
NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS



NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

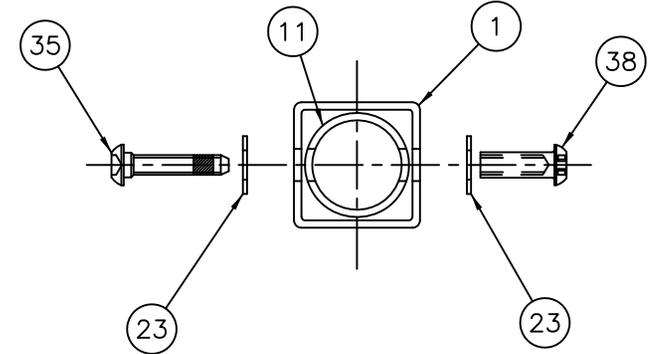
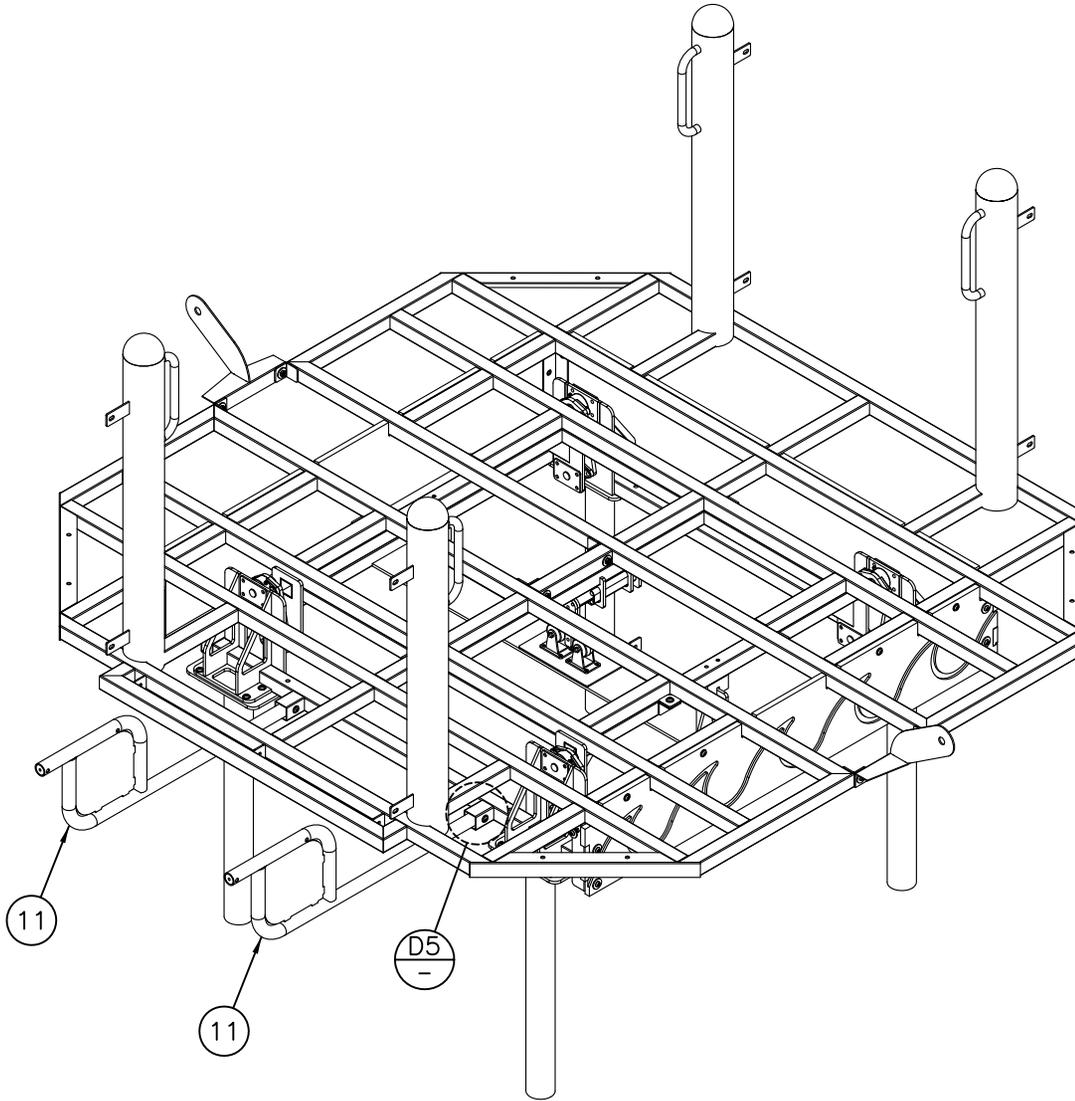


DETAIL D3  
1:SCALE  
TYP 4 PLCS



DETAIL D4  
1:SCALE  
TYP 2 PLCS

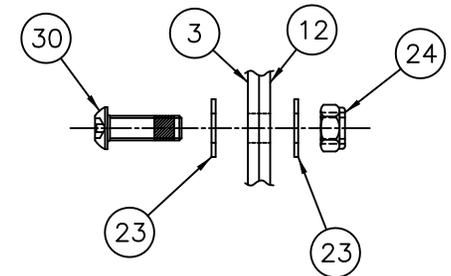
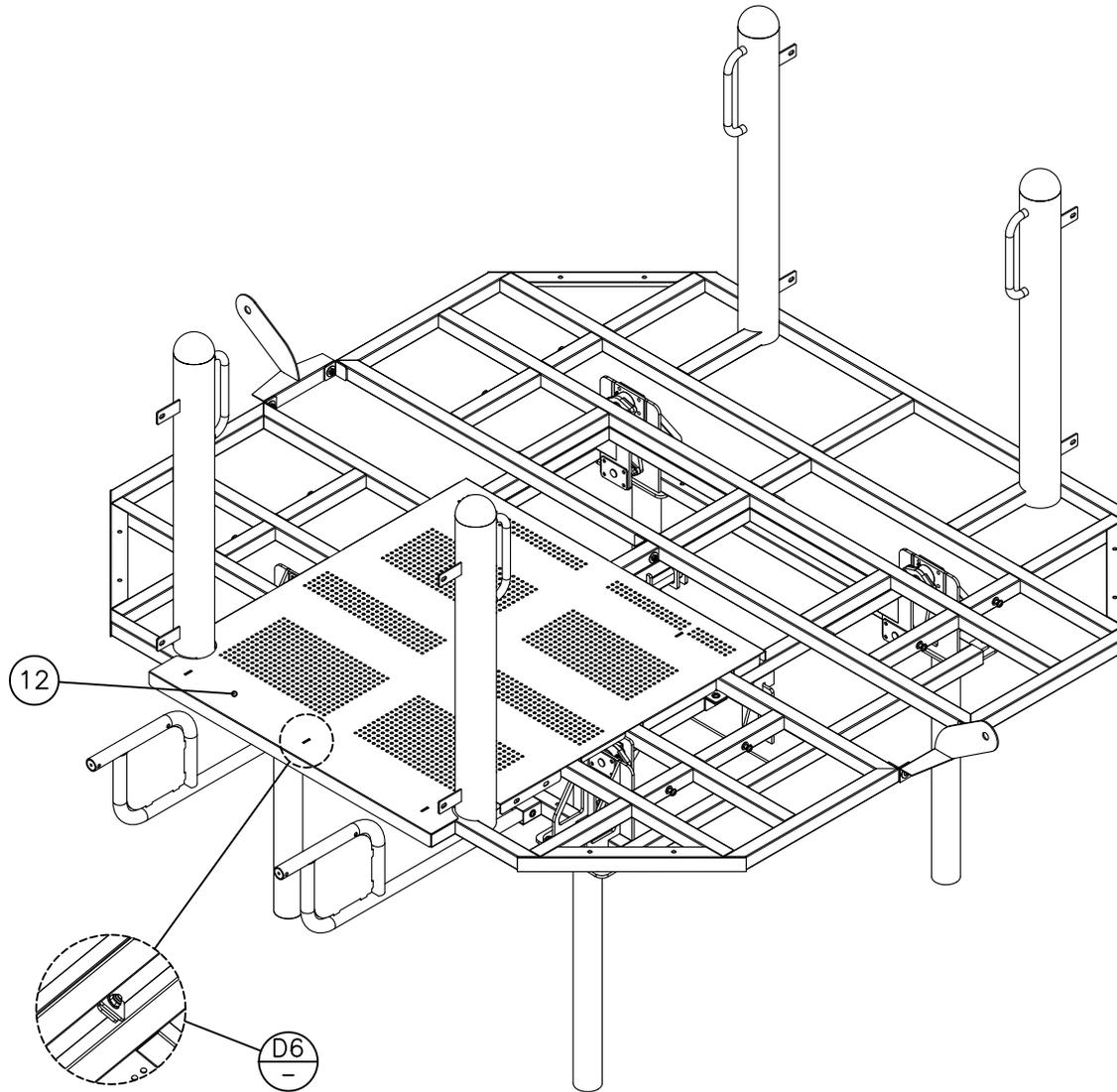
NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS



DETAIL D5  
1:SCALE  
TYP 2 PLCS

ITEM 10 REMOVED FOR CLARITY

NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS



DETAIL D6  
1:SCALE  
TYP 5 PLS

NOT TO SCALE  
SHOWN FROM BOTTOM VIEW

NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS



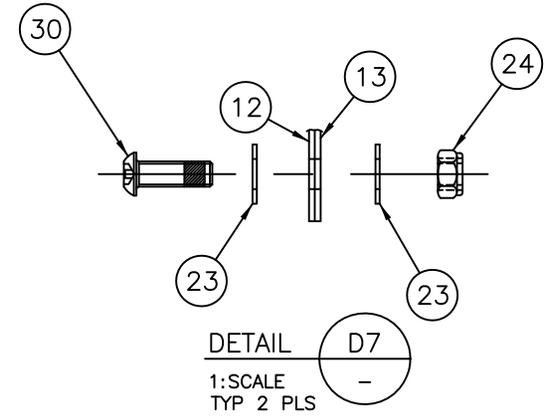
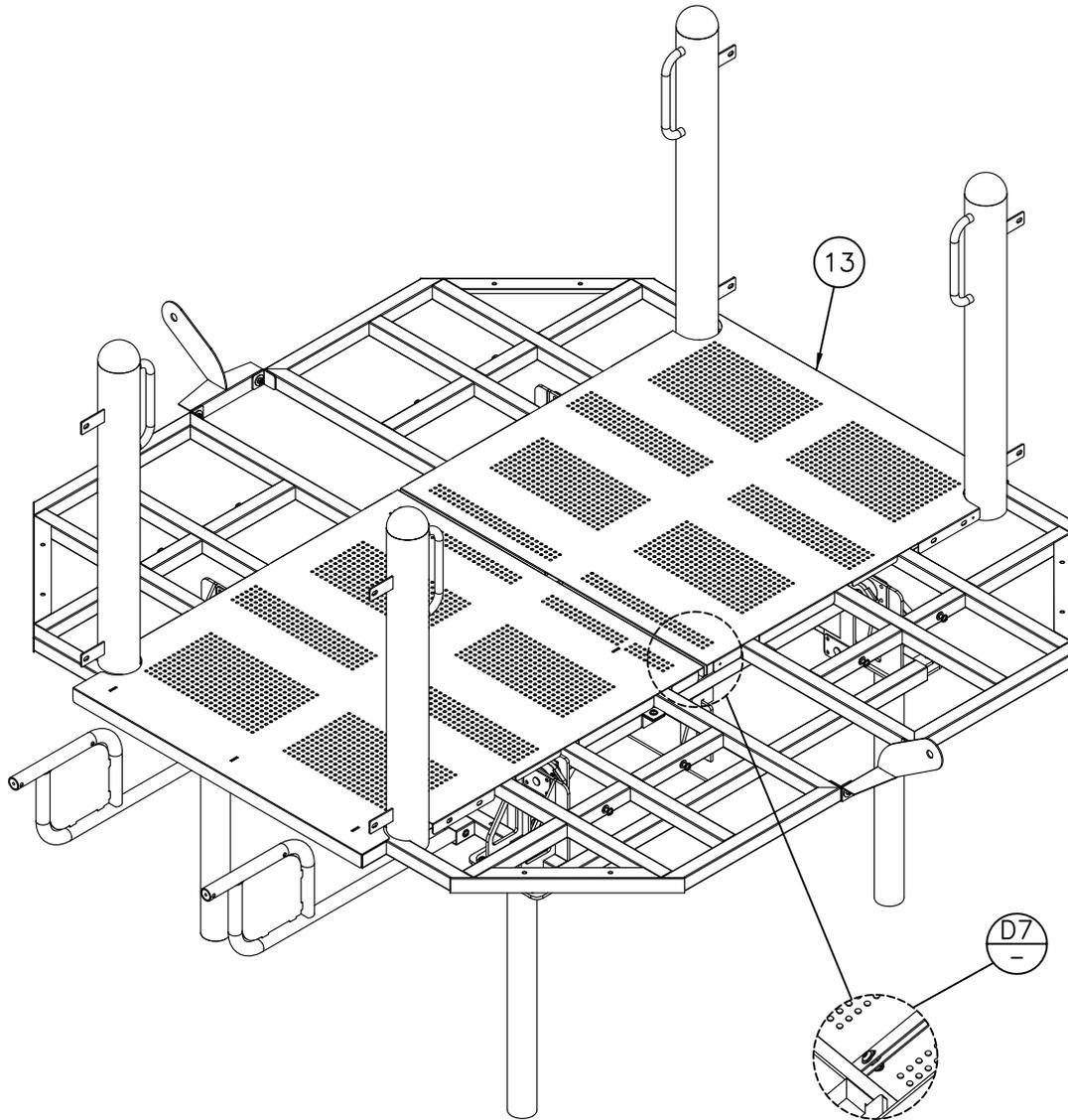
# KB ROCK N SHIP

KB900047D

Sheet 8 of 13

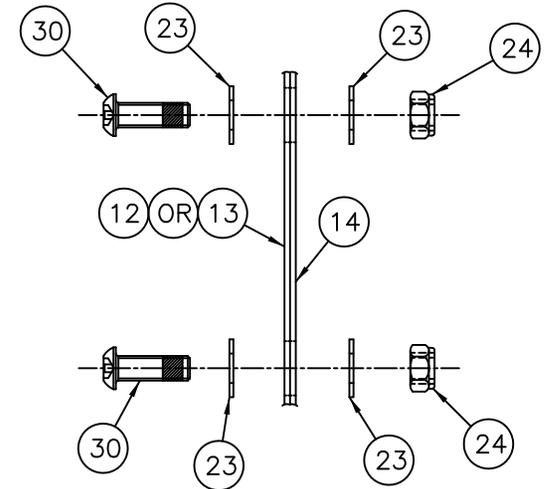
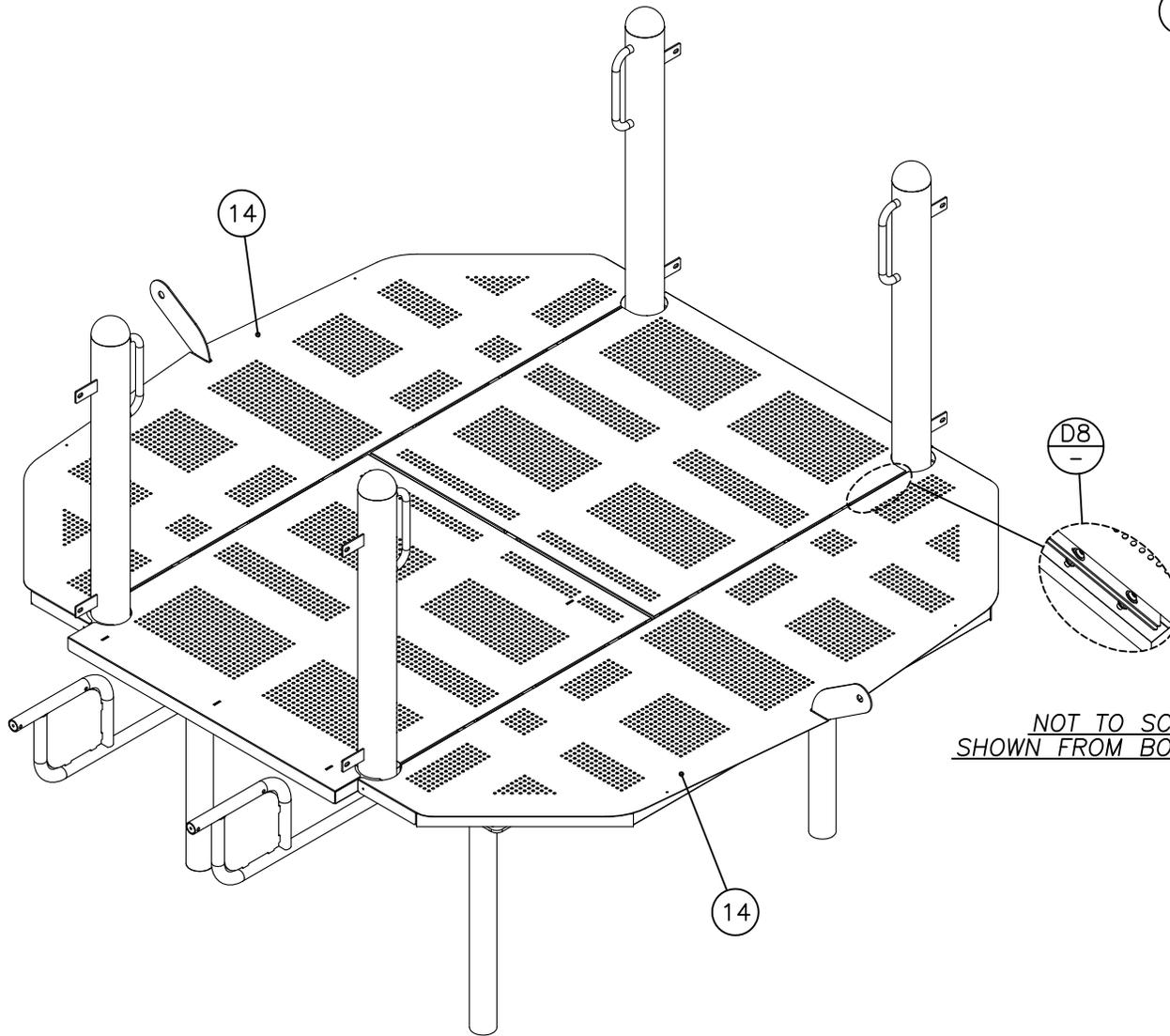
AUTHORIZED BY: 10OCT17

Harold Gabriel



NOT TO SCALE  
SHOWN FROM BOTTOM VIEW

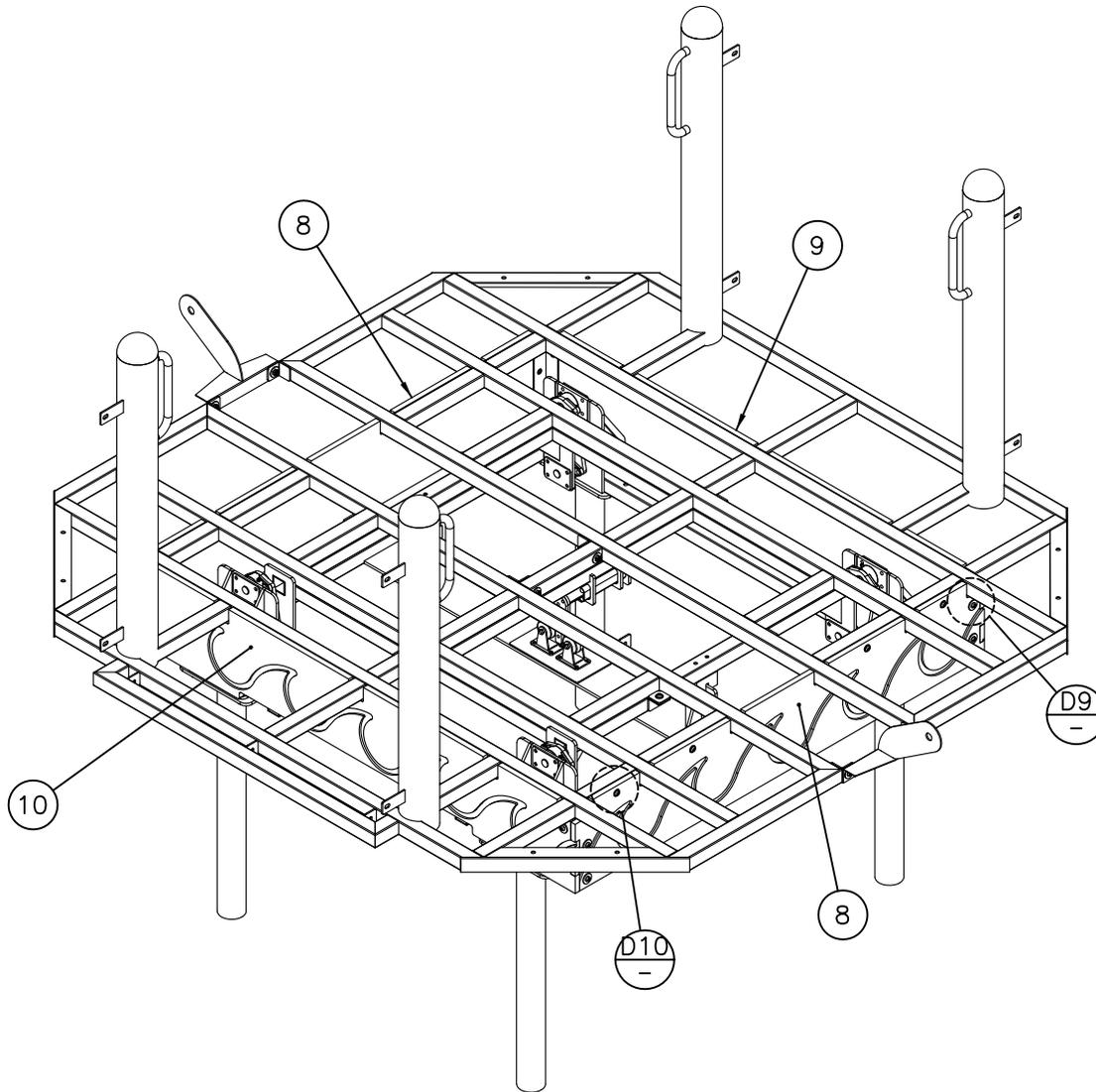
NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS



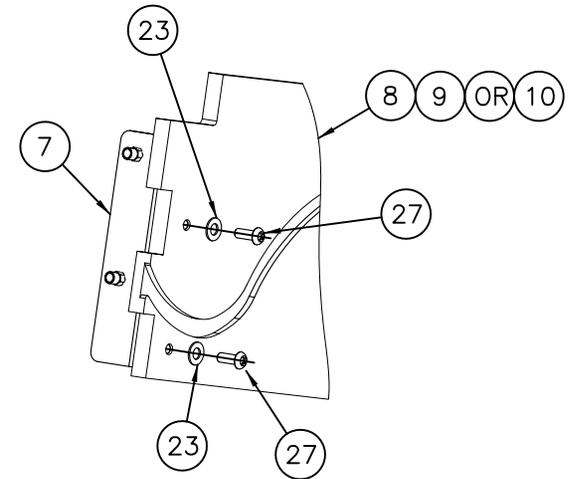
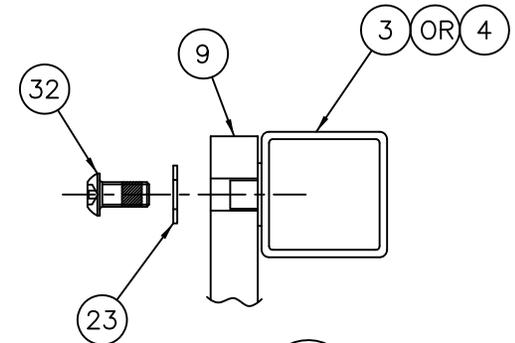
DETAIL D8  
1:SCALE  
TYP 4 PLS

NOT TO SCALE  
SHOWN FROM BOTTOM VIEW

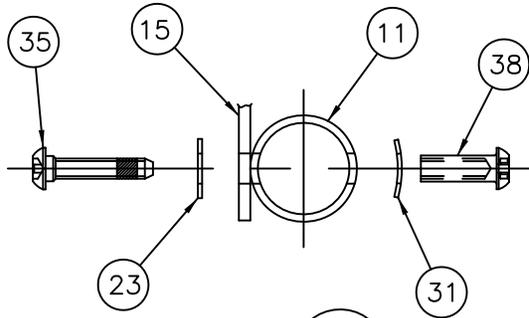
NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS



DECKS NOT SHOWN  
FOR CLARITY

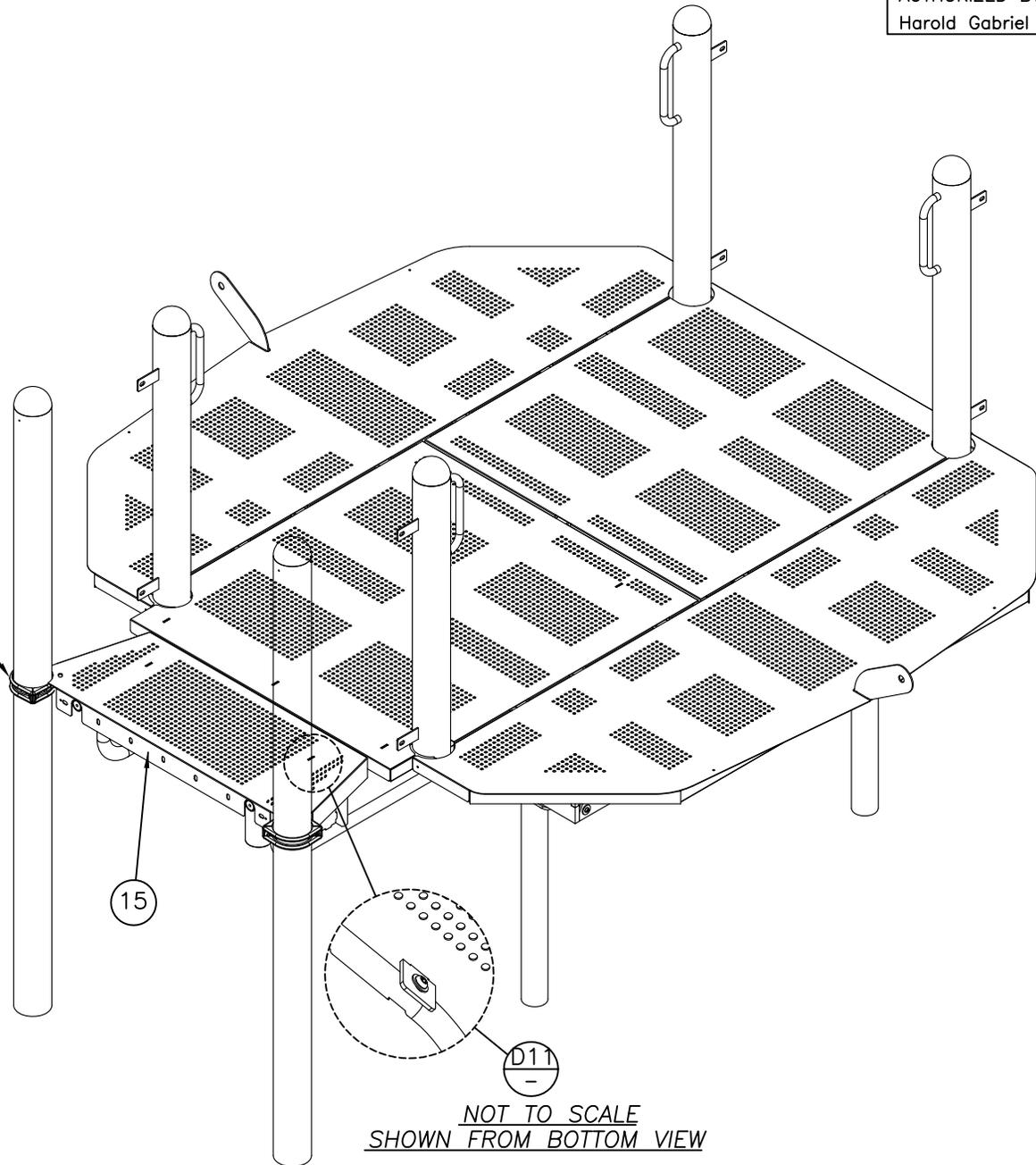


NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS



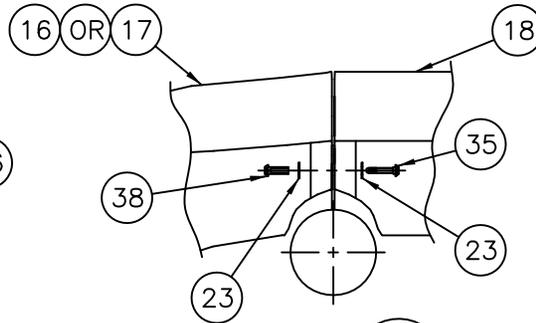
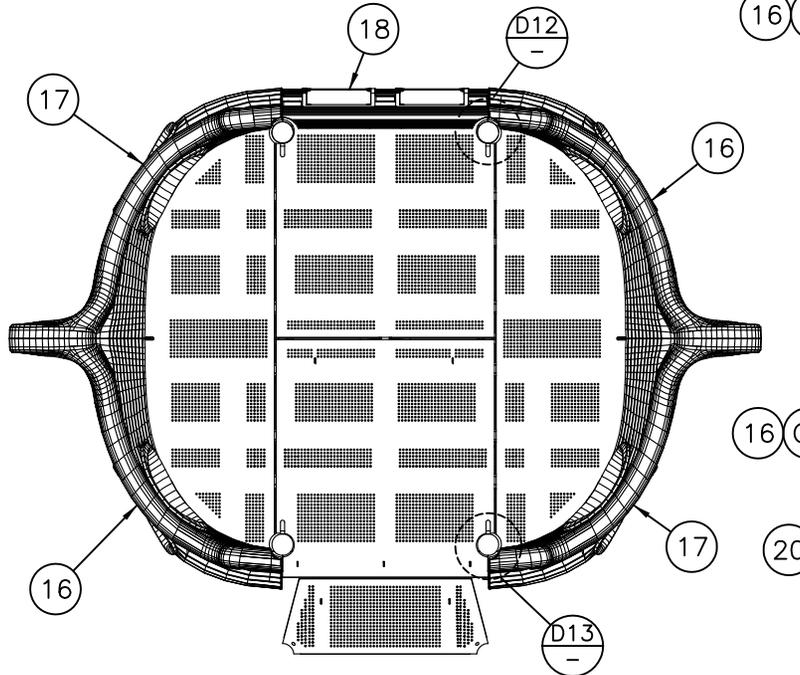
DETAIL D11  
1:SCALE  
TYP 2 PLS

Refer to front of Manual  
for Deck Clamp Installation

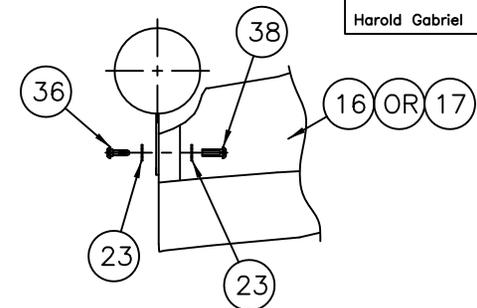


NOT TO SCALE  
SHOWN FROM BOTTOM VIEW

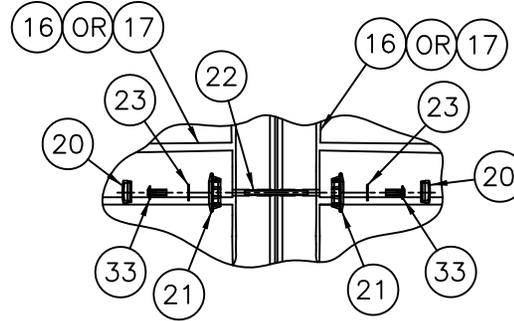
NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS



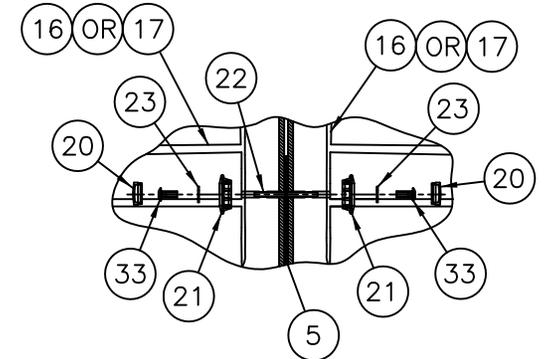
DETAIL D12  
1:SCALE  
TYP 4 PLS



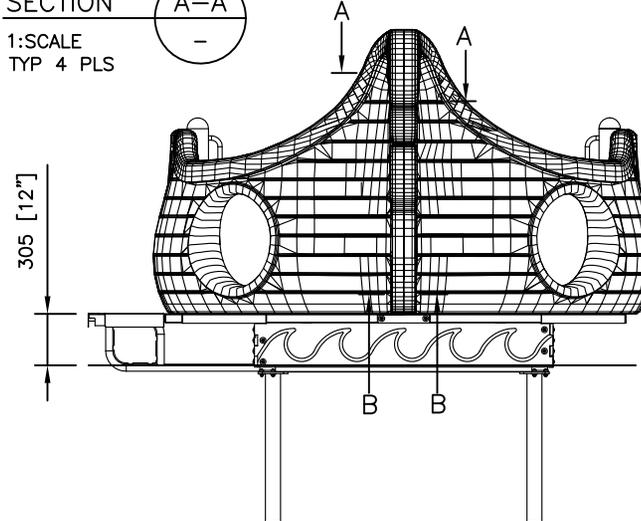
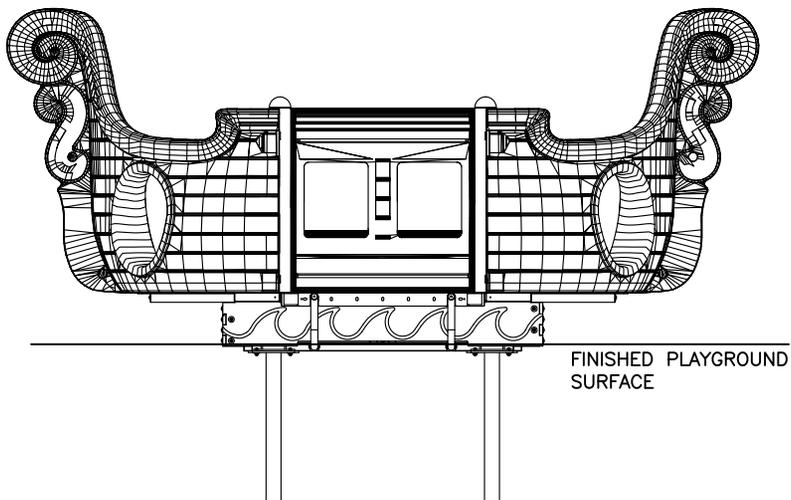
DETAIL D13  
1:SCALE  
TYP 4 PLS



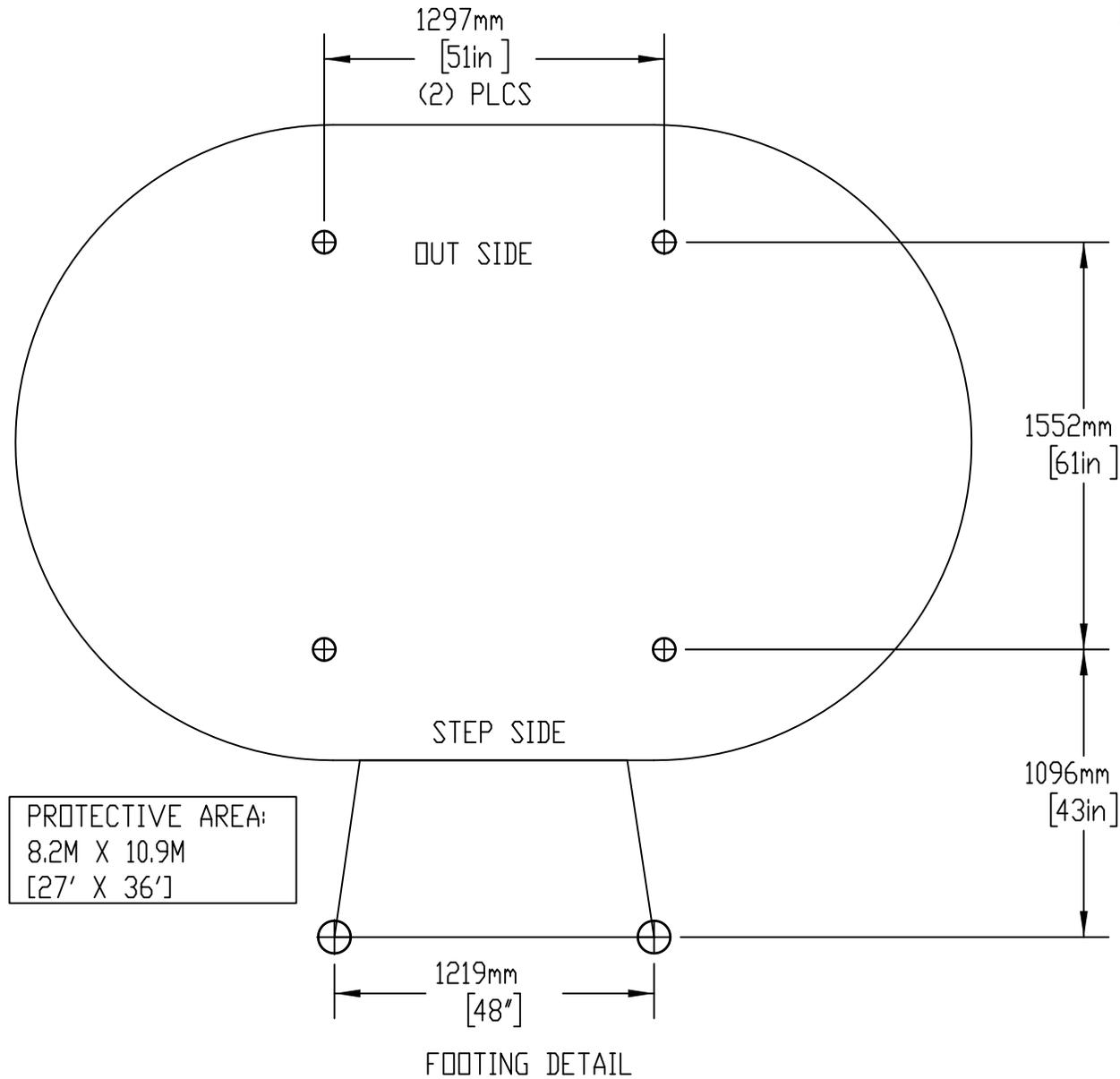
SECTION A-A  
1:SCALE  
TYP 4 PLS



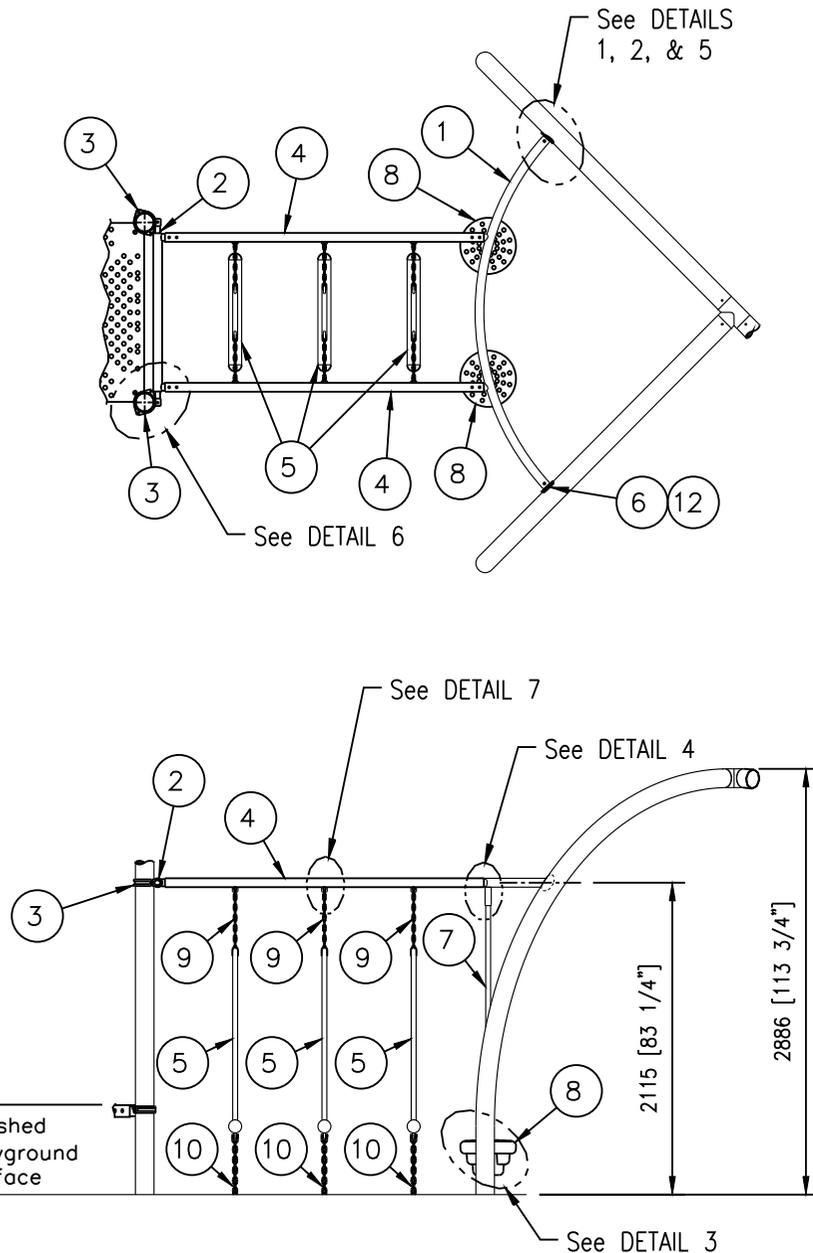
SECTION B-B  
1:SCALE  
TYP 2 PLS



NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS



NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS


**NRG TO KB PERCH ALLEY  
200201962**

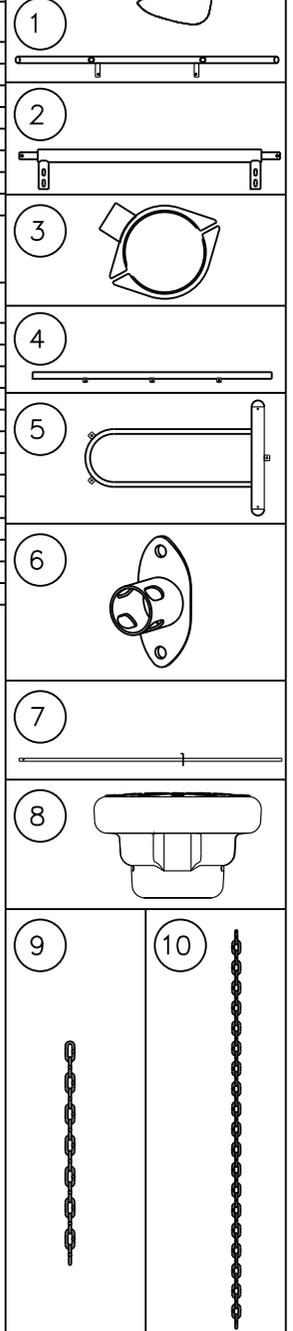
Item	Code	Description	Qty.
1	-	BEAM F/NRG OVERHEAD MODULE	1
2	-	SUPPORT F/KB PERCH ALLEY	1
3	-	WEDGE CLAMP ASSEMBLY	2
4	-	BEAM F/NRG PERCH ALLEY	2
5	-	PERCH F/NRG	3
6	-	CONNECTOR F/NRG BEAMS BOLT ON	2
7	-	POST SUPP F/KINETC AGILITY PODS	2
8	-	PLASTIC STONE	2

**HDWR BAG F/NRG TO KB PERCH ALLEY  
200178379**

Item	Code	Description	Qty.
9	200175527	CHAIN 8MM HOT-DIP GALV. (14 LINKS)	6
10	200175355	CHAIN 8MM HOT-DIP GALV. (39 LINKS)	3
11	200000757	CASTING LOCK COLLAR	2
12	200058373	GASKET F/PB PLATE (LARGE)	2
13	200002145	BOLT M8 X 1.25 FEMALE 30 MM	20
14	200002133	BOLT M8 X 1.25 MALE 27.5 MM	2
15	200002142	BOLT M8 X 1.25 MALE 57.5 MM	10
16	200008483	WASHER BOWED M11 X 23 X 12 X 1.6 MM	28
17	200142930	ROD THREADED M8 X 100MM	4
18	SP1249100	WASHER,FLAT-1/2",18-8 SS	30
19	200015170	SHACKLE "D" STYLE 300 S.S. (LARGE)	15
20	200043884	BUSHING BRNZ. 10 X 13 X 20 MM (SAE 841)	15
21	200016225	BOLT M10 X 1.5 300SS6 LOBE STYLE F/D SHK (LG)	15

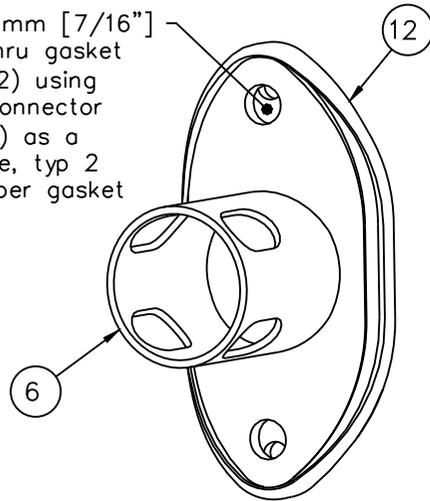
**Installation Instructions**

1. Prepare footings.
2. Put gaskets (item 12) on Beam Connectors (item 6) as shown in DETAIL 1. Using the two holes in beam connector plate as a template, drill  $\phi 11\text{mm}$  [ $7/16"$ ] holes through the gaskets to allow hardware installation.
3. Attach Beam Connectors (item 6) to the Overhead Module Beam (item 1) as shown in DETAIL 2.
4. Slide a stone (item 8) and locking collar onto each Post Support (item 7) as shown in DETAIL 3, then attach the Post Supports to the beam as shown in DETAIL 4.
5. Place Post Supports into the proper footings and block beam up to correct height. Check for level and plumb.
6. Attach Overhead Module Beam to arches by installing hardware through Beam Connectors, gaskets, and pre-drilled holes in arches as shown in DETAIL 5.
7. Attach Beam (item 4) to the Perch Alley Support (Item 2) and the module beam as shown in DETAIL 6.
8. Check for level and plumb and attach support to KB Posts (refer to front of manual for clamp detail).
9. Attach chains to the Perches (Item 5) and then beams as shown in DETAIL 7.
10. Tighten all hardware and install hammer drive pins and complete footings.

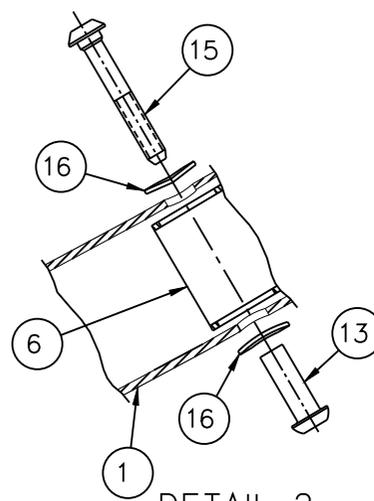
 AUTHORIZED BY: 12OCT10  
*Chris M. Anderson*


AUTHORIZED BY:  
*Chris M. Henderson* 120CT10

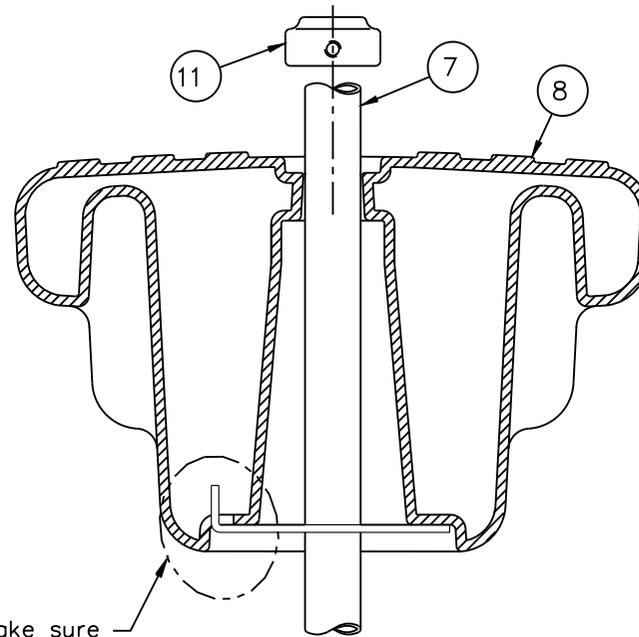
Drill  $\phi 11\text{mm}$  [7/16"] holes thru gasket (item 12) using beam connector (item 6) as a template, typ 2 places per gasket



DETAIL 1

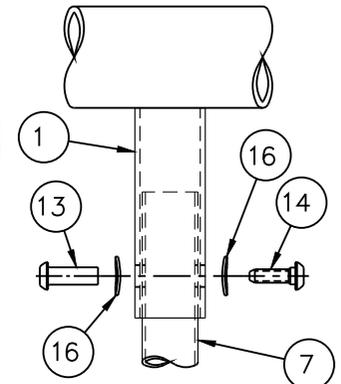


DETAIL 2  
Typ 2 Places

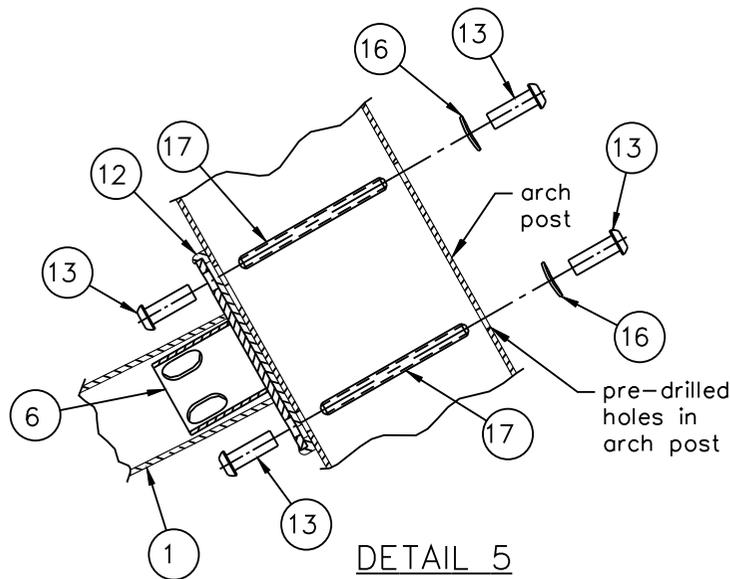


Make sure tab goes in hole

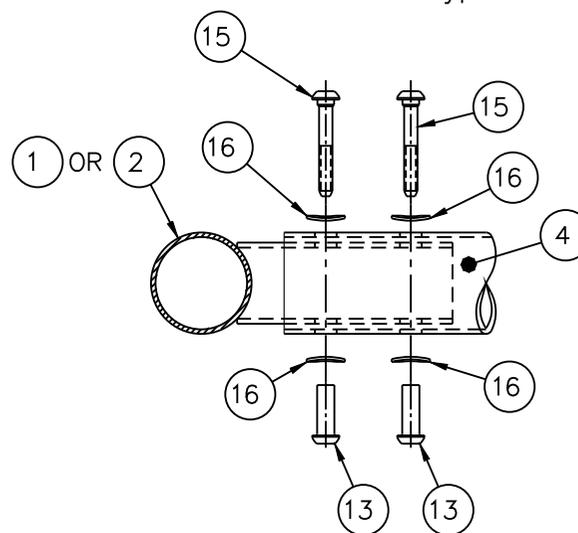
DETAIL 3  
Typ 2 Places



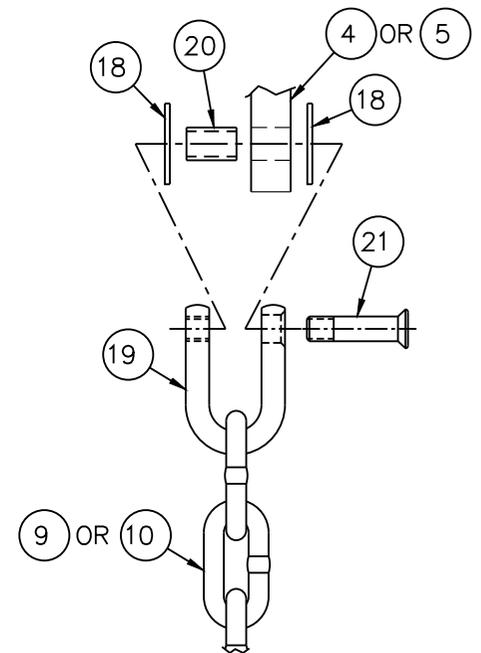
DETAIL 4  
Typ 2 Places



DETAIL 5  
Typ 2 Places



DETAIL 6  
Typ 4 Places



DETAIL 7  
Typ 15 Places



# NRG TO KB PERCH ALLEY

200179322

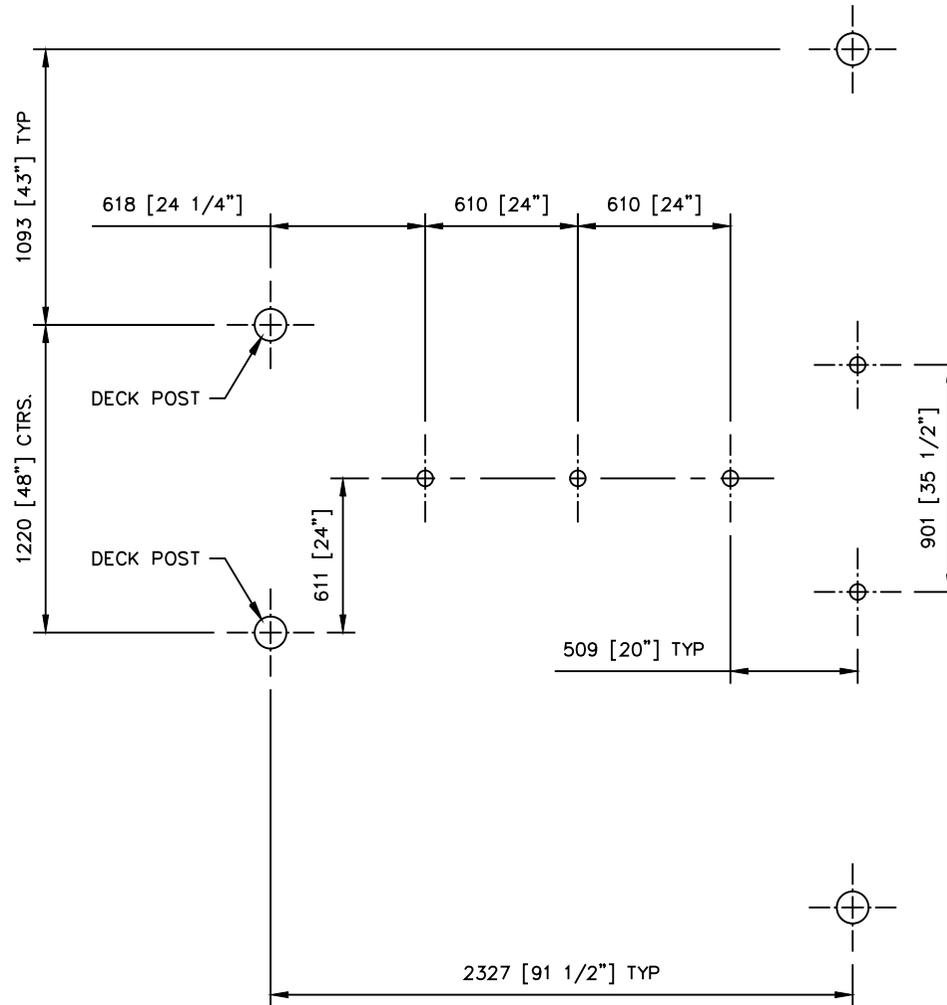
NRG40111B-S3

Sheet 3 of 3

## FOOTING DIMENSIONS

AUTHORIZED BY: 12OCT10

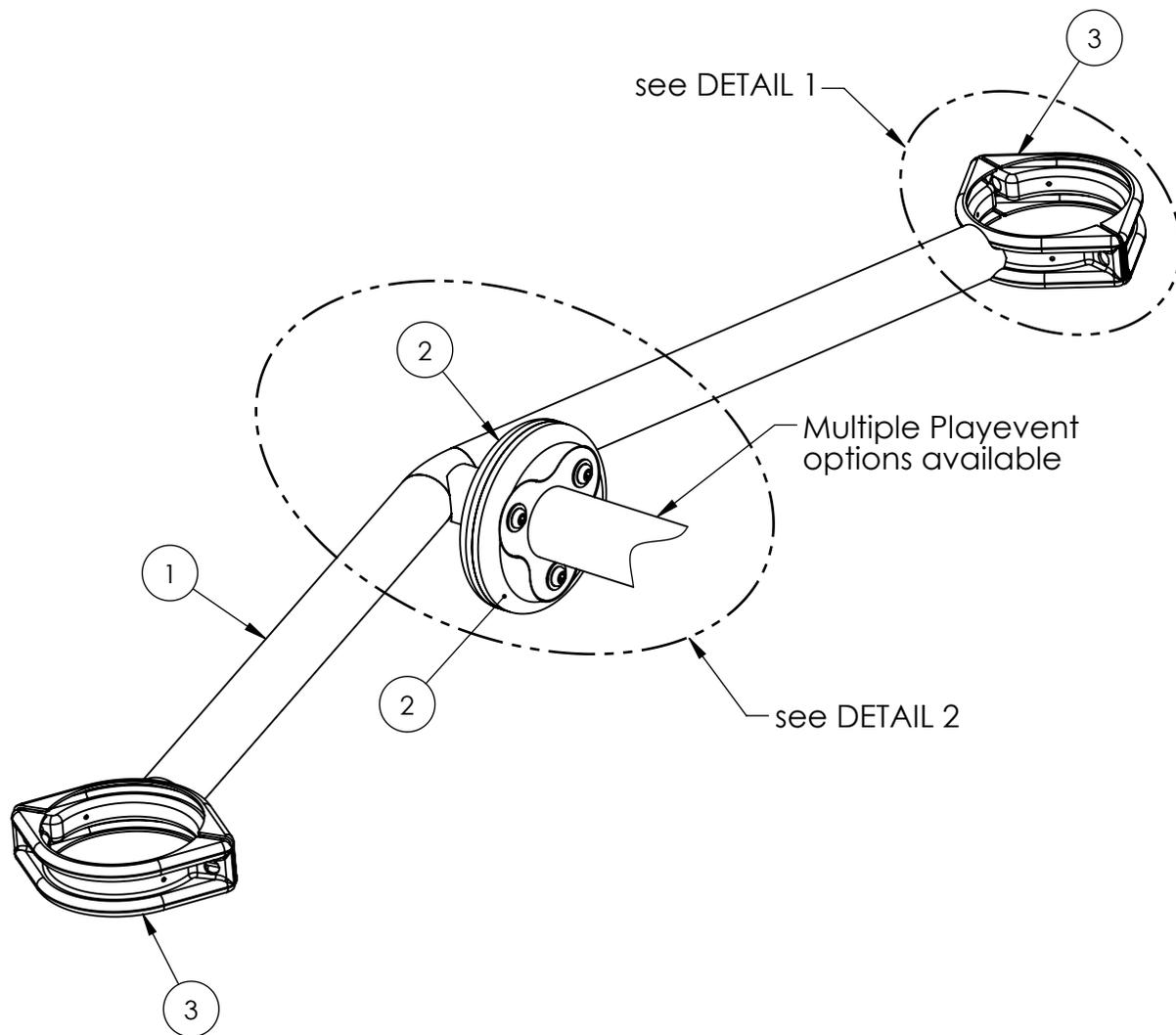
*Chris M. Newberry*



# INST F/NRG FREESTYLE RAIL TO KB

200313255  
NRG60008A  
SHEET 1 OF 4

AUTHORIZED BY: 14JAN13  
ERIC CLOWDUS



## NRG FREESTYLE RAIL TO KB 200202895

Item	Code	Description	Qty
1	-	KB TO RAIL LINK	1
2	200309038	RAIL SHROUD	2
3	-	CLAMP HALF W/O WELDED ATTACHMENT	2

## HDWR BAG F/NRG FREESTYLE KB 200312877

4	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30 MM	3
5	200002133	BOLT M8 X 1.25 MALE 27.5 MM	3
6	200002079	WASHER FLAT M11 23 X 12 X 1.6	6

## HDWR BAG F/KB CLAMPS

7	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	4
8	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	4
9	200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	4

## Application

- Age group: 5 - 12 year olds

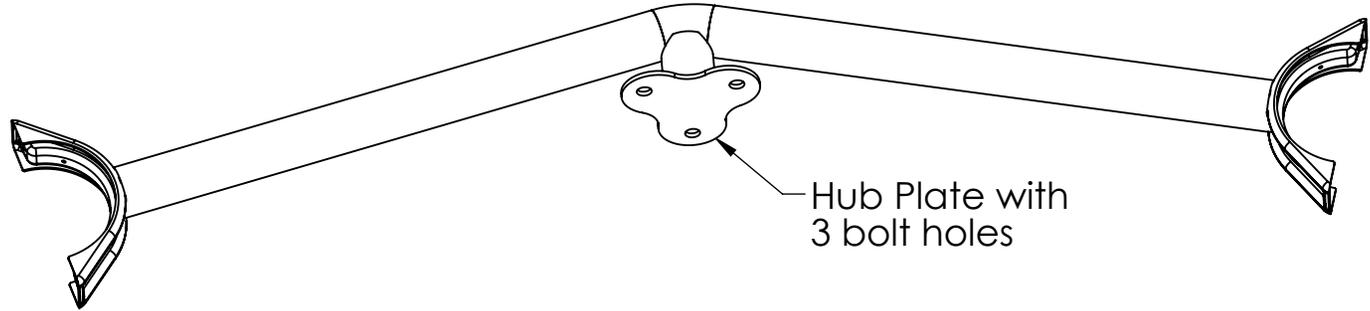
## Installation Instructions

1. Loosely assembly clamp half (item 3) with Link (item 1) as shown in DETAIL 1.
2. Place on posts at correct height as shown on sheet 4, and check for level. See sheet 2 for correct orientation of hub plate. Tighten hardware. Do not install clamp drive pins at this time.
3. Install playevent as shown in DETAIL 2. Check for level.
4. Tighten all hardware and install clamp drive pins.

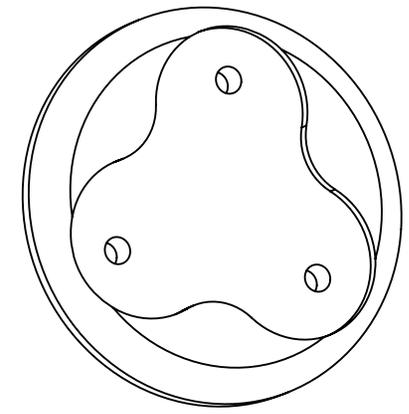
# INST F/NRG FREESTYLE RAIL TO KB

200313255  
NRG60008A  
SHEET 2 OF 4  
AUTHORIZED BY: 14JAN13  
ERIC CLOWDUS

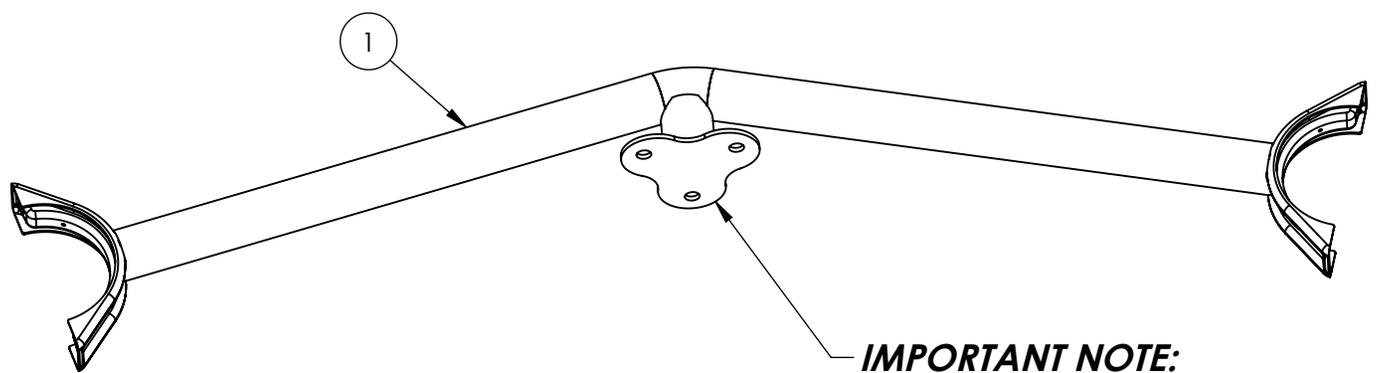
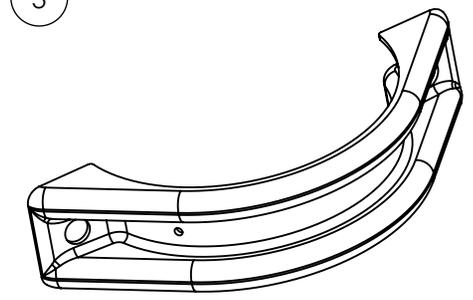
1



2



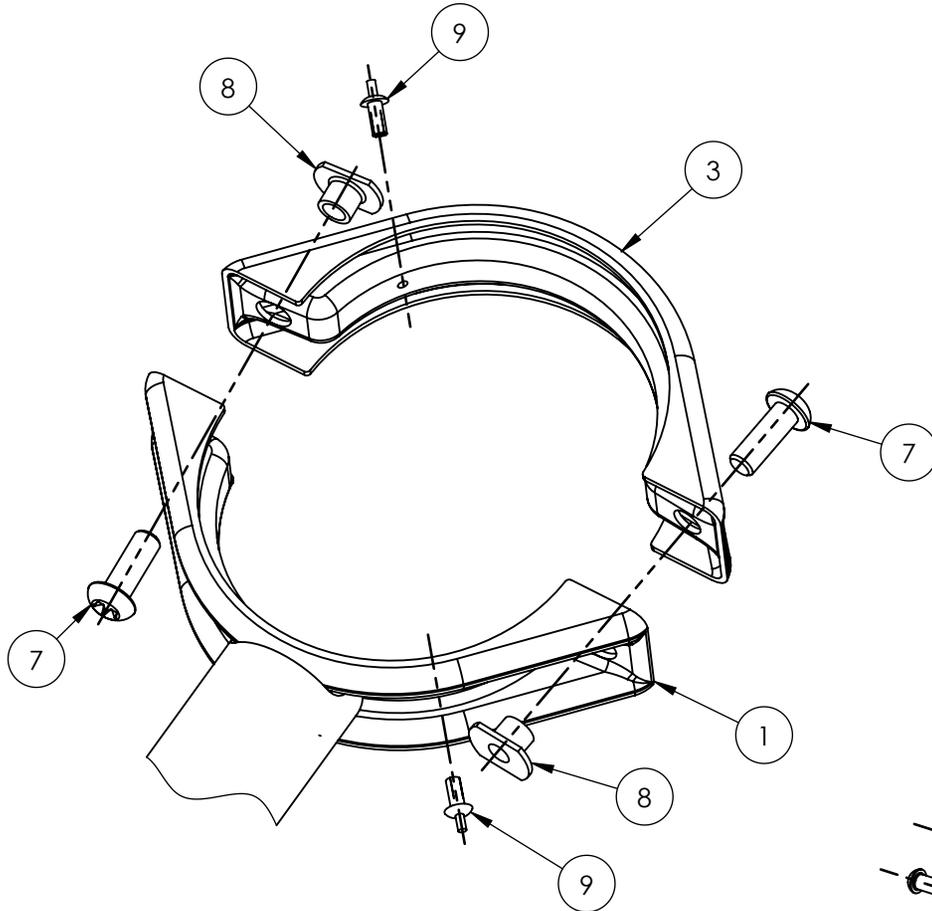
3



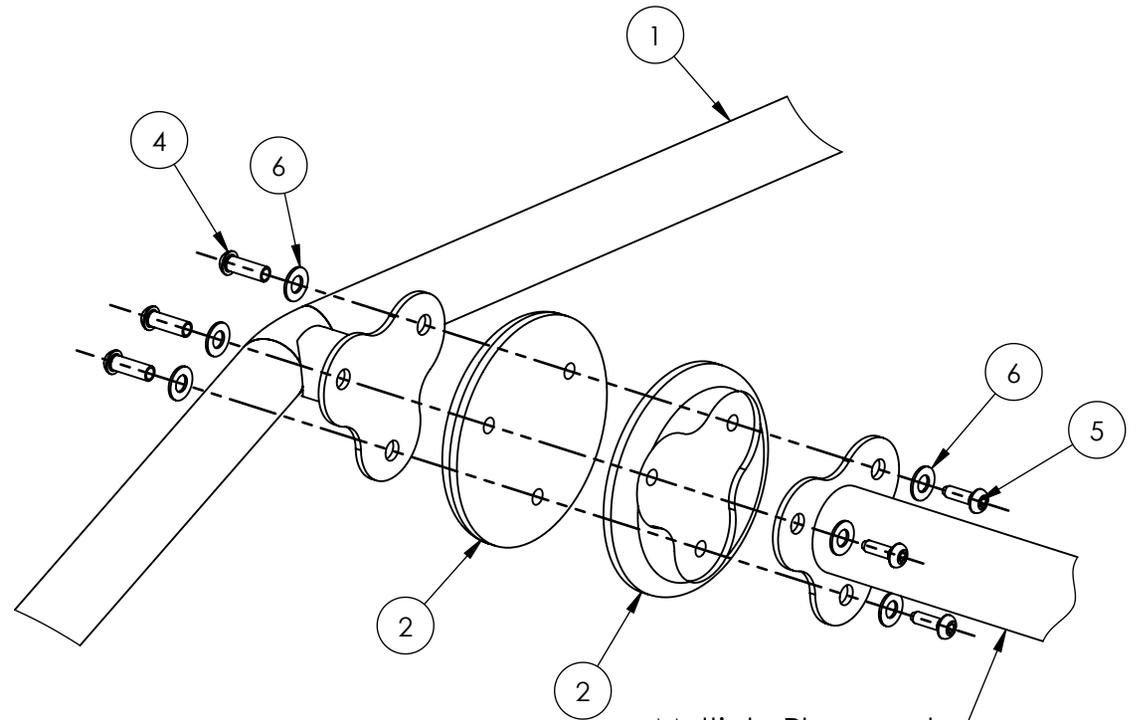
## HUB PLATE ORIENTATION

# INST F/NRG FREESTYLE RAIL TO KB

200313255  
NRG60008A  
SHEET 3 OF 4  
AUTHORIZED BY: 14JAN13  
ERIC CLOWDUS



**DETAIL 1**  
**Typ 2 Places**



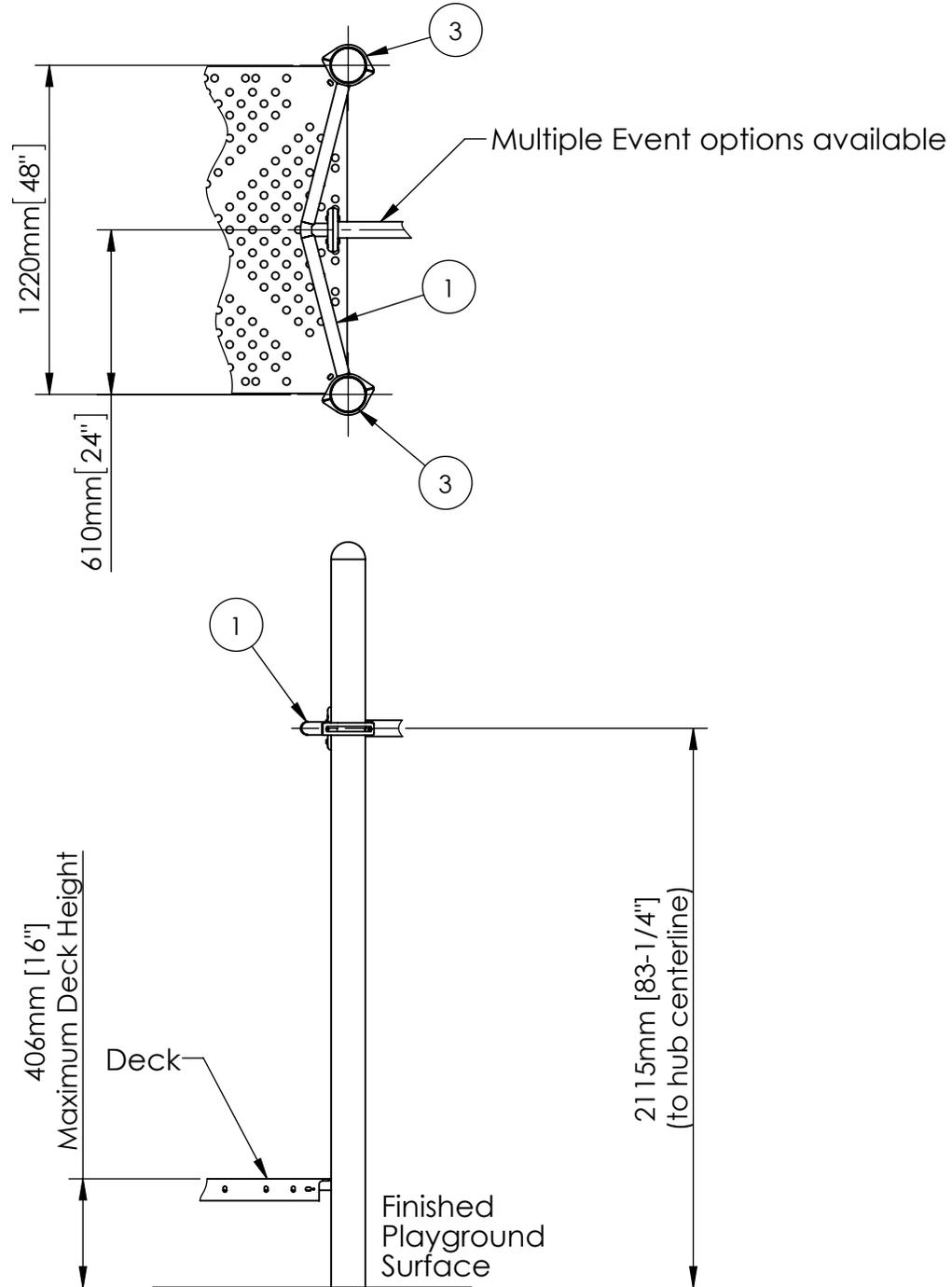
Multiple Playevent  
options available

**DETAIL 2**

# INST F/NRG FREESTYLE RAIL TO KB

200313255  
NRG60008A  
SHEET 4 OF 4  
AUTHORIZED BY: 14JAN13  
ERIC CLOWDUS

## TOP AND SIDE VIEWS





Project Number: R0324180256

PlayArea: PlayArea\_1 | Park Service

Project Name:

Project Location:

Sales Representative:

Northland Recreation  
N49 W34651 Wisconsin Ave  
Okauchee ,WI 53069  
262-313-8636

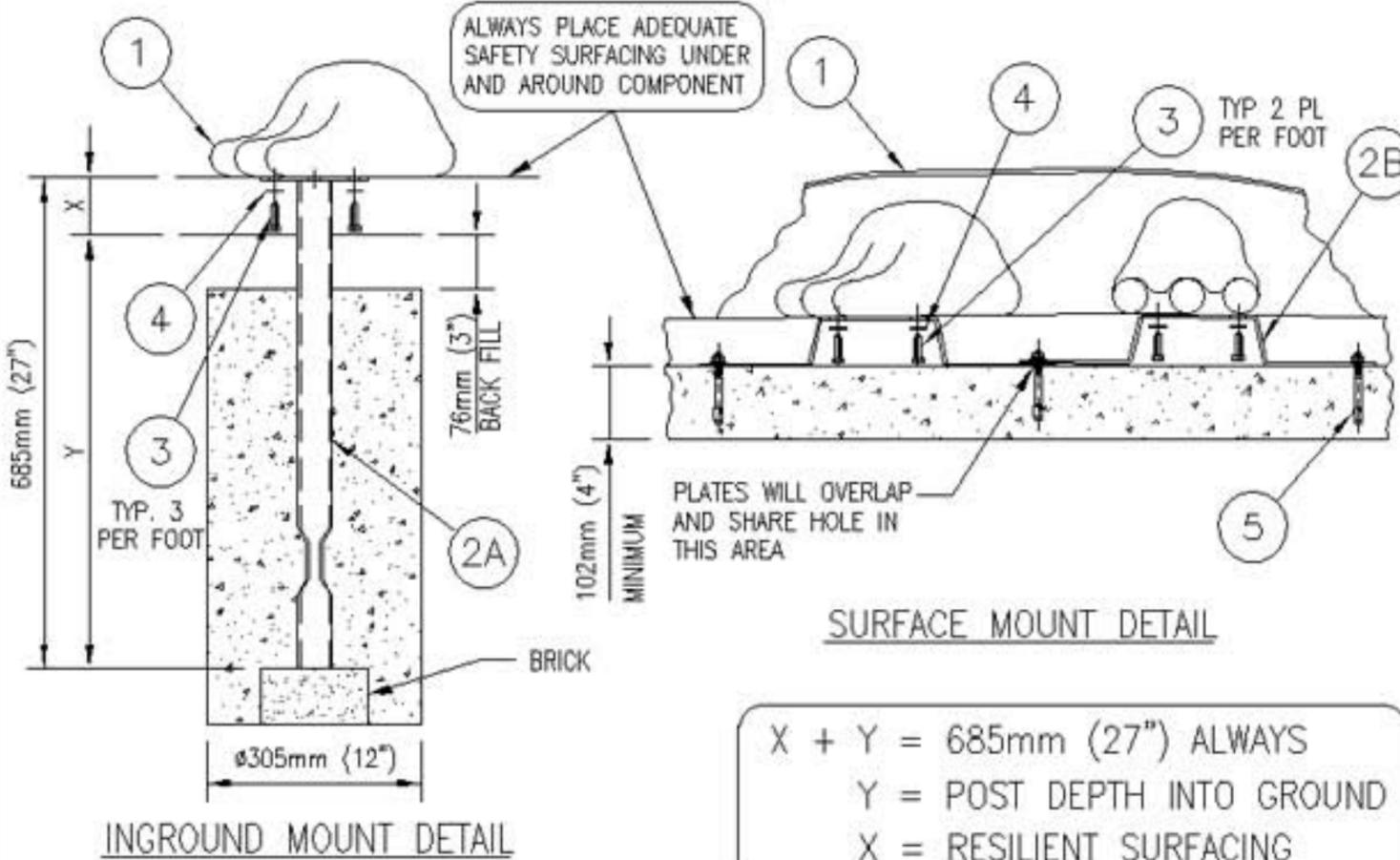
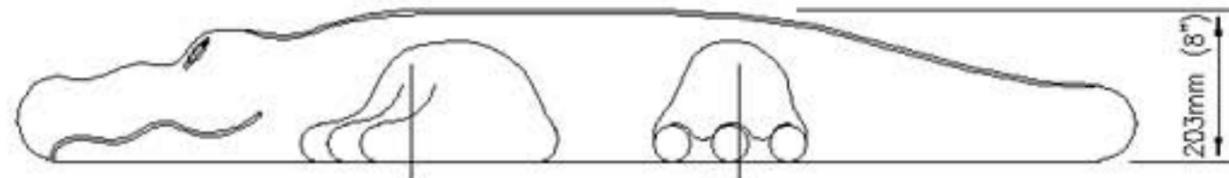
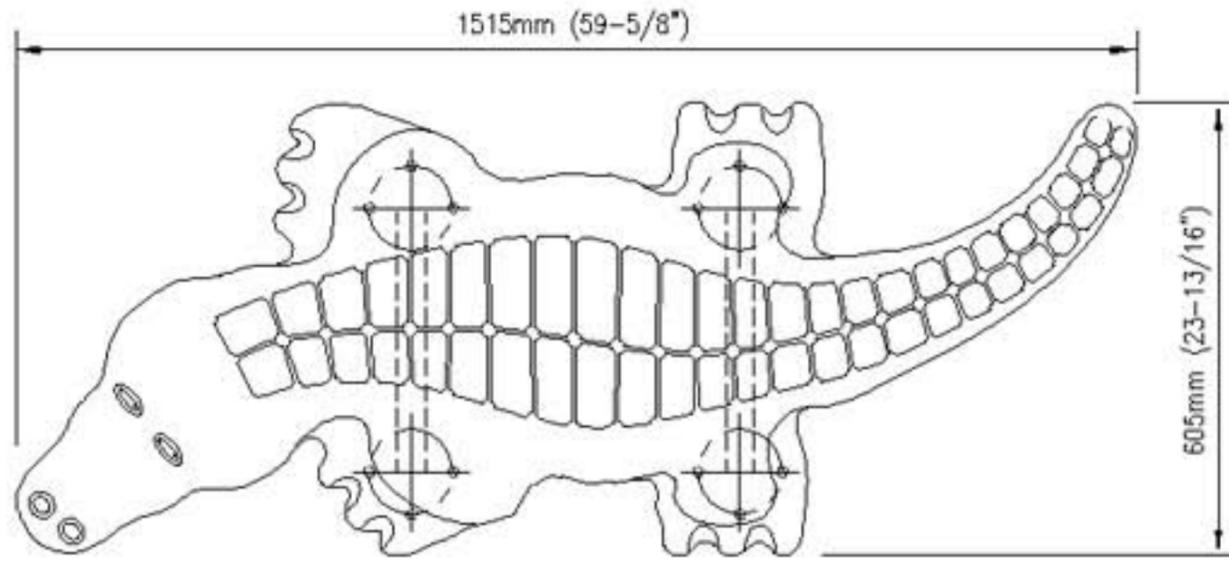
## Installation Instructions

Please, read all information in this manual before starting to install your equipment.

Date: 4/19/2018 12:00:00 AM

# GATOR WALK (STATIONARY)

200072664  
19000388



## GATOR WALK SCULPTURE 200074145 (INGROUND MOUNT 200074143)

AUTHORIZED BY:  
*Chris White* 19AUG03

Item	Code	Description	Qty.
1	-	GATOR WALK SCULPTURE	1
2A	200023329	POST ING BRN 1/LOOSE FILL DINOSAUR/ GATOR	4
3	200143960	SCREW LAG HEX 3/8" X 1-1/4" 18-8 S.S.	12
4	200002079	WASHER FLAT M11 23 X 12 X 1.6mm	12

## (SURFACE MOUNT 200024673)

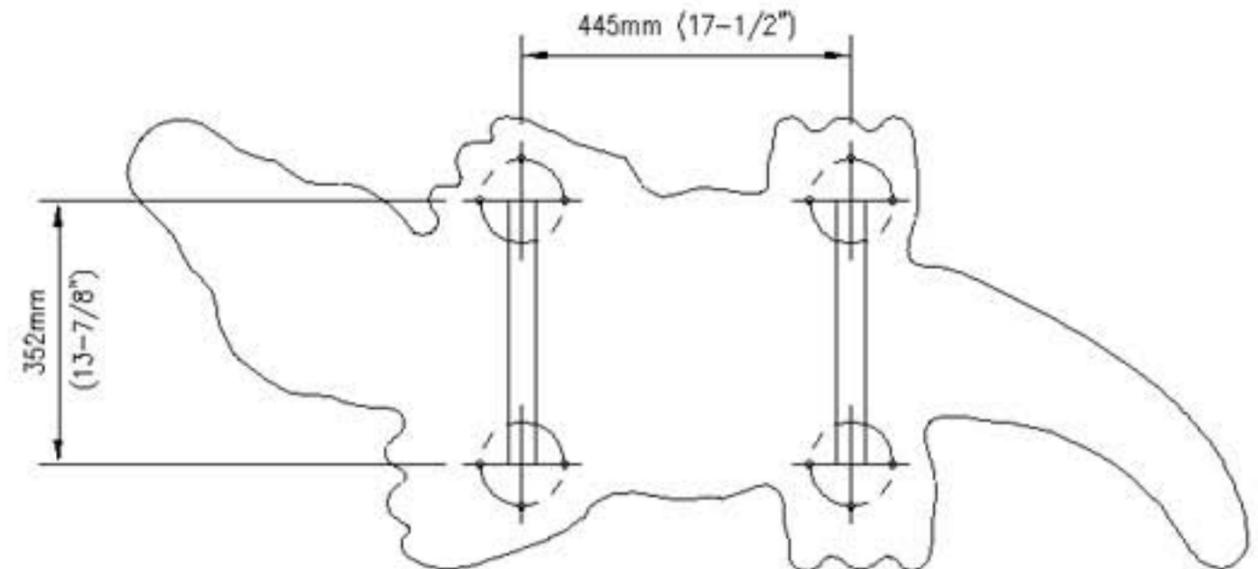
Item	Code	Description	Qty.
1	-	GATOR WALK SCULPTURE	1
2B	200024671	PLATE SRFMT f/DINOSAUR/ GATOR HOT DIPPED	4
3	200143960	SCREW LAG HEX 3/8" X 1-1/4" 18-8 S.S.	8
4	200002079	WASHER FLAT M11 23 X 12 X 1.6mm	8
5	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100mm	8

### Application

- Recommended for age groups: (2-5 year olds) & (5-12 year olds)
- Cannot be installed under or above a deck.
- This component is an independent part and does not attach to a structure.
- If installing in conjunction with a structure, make sure the sculpture is installed outside of any fall zones.

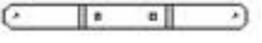
### Installation Instructions

1. Attach post or strap to each gator foot, (depending on mount type) as shown in the footing detail.
2. Lower posts into footing holes or attach straps to concrete footing as shown in the footing detail.
3. Finish by installing resilient surfacing.



2A

2B





Project Number: R0324180256

PlayArea: PlayArea\_1 | Traditional Play

Project Name:

Project Location:

Sales Representative:

Northland Recreation  
N49 W34651 Wisconsin Ave  
Okauchee ,WI 53069  
262-313-8636

## Installation Instructions

Please, read all information in this manual before starting to install your equipment.

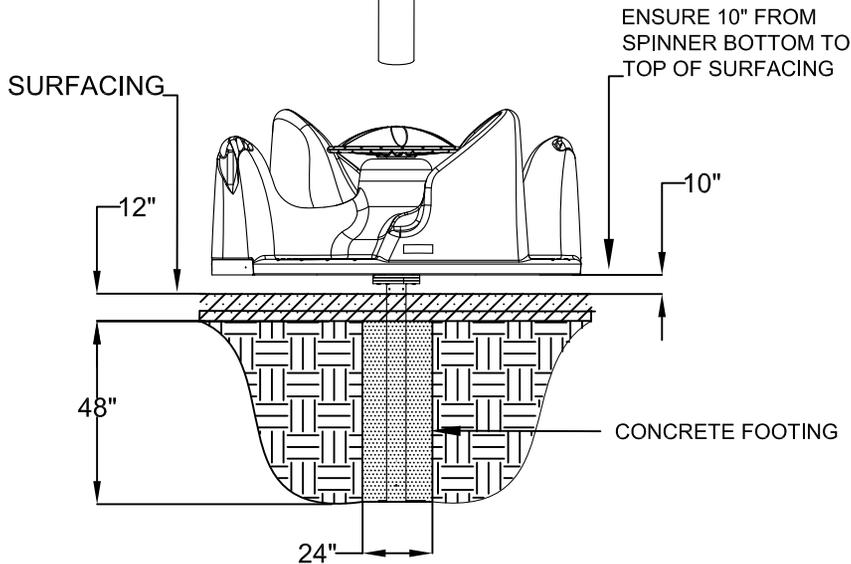
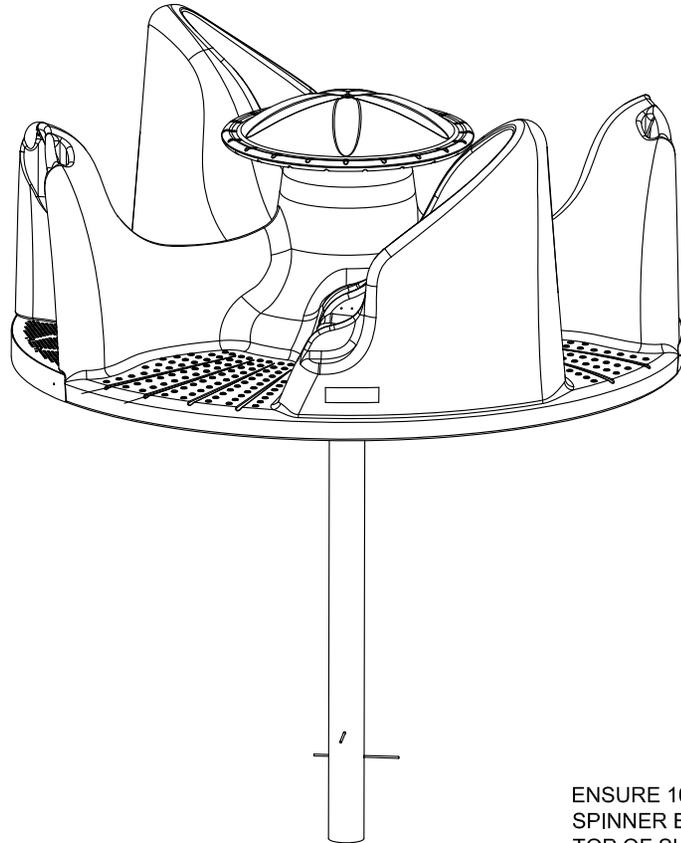
Date: 4/19/2018 12:00:00 AM

# INSTALL INSTRUCTION REVOLUTION INCLUSIVE SPINNER

I400008B  
SHEET 1 OF 4

AUTHORIZED BY: 13MAR17  
TRACY ARCHER

## 200203413 REVOLUTION INCLUSIVE SPINNER



NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

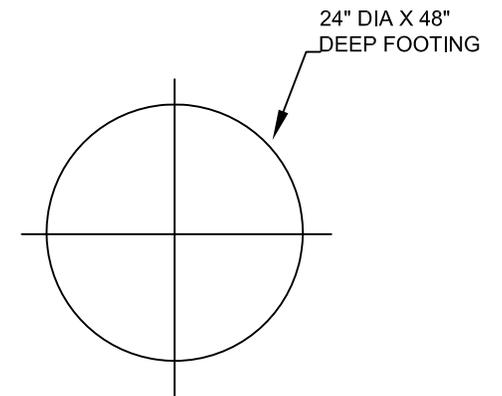
Item	Code	Description	Qty.
1	906783P	LT GROUP SPINNER US	1
2	996273P	WHEEL-SPIN-TEN SPIN	
3	907587BR	POST ASSEMBLY - LT GROUP SPINNER	
4	996606BK	TUBE-WHEEL WELDMENT	
5	993297	WIRE, BB, 3 GA X 12"	2
6	HW3413-1	HRDW PKG F/REVOLUTION SPINNER S1/1	1

### HRDW PKG F/REVOLUTION SPINNER S1/1 HW3413-1

Item	Code	Description	Qty.
7	10121030	BOLT M10 X 30MM BHCS SKT HEAD SS	2
8	200002096	WASHER FLAT M10 34 OD X 11 ID X 3MM SS	1
9	200002150	SCREW MACH BUTTONHEAD M10 X 1.5 X 55MM	1

#### Application

- AGE GROUP: 2-12 YR OLDS



# INSTALL INSTRUCTION REVOLUTION INCLUSIVE SPINNER

I400008B  
SHEET 2 OF 4

AUTHORIZED BY: 13MAR17  
TRACY ARCHER

## BEFORE STARTING INSTALLATION OF YOUR LITTLE TIKES COMMERCIAL PRODUCT PLEASE READ INSTRUCTIONS THOROUGHLY

This playevent is designed to suit a level site. Should there be any slopes on the site, care should be taken to accommodate the entry and exit points and to maintain the correct heights.

The site must be checked for adverse or unusual conditions. i.e.

- 1) Exposed, cracked or loose concrete footings.
- 2) Worn, scattered or compressed surface material.
- 3) Exposed roots, rocks or other environmental obstacles that form potential trip hazards.
- 4) Broken glass, refuse, or foreign objects around and on play equipment.
- 5) Poor drainage areas.
- 6) All sites especially those close to existing buildings must be checked for electrical or gas lines and drainage before digging.

As the owner, it is most important that you are aware of your responsibility for the safe use of your new play equipment. It is necessary to install equipment correctly according to the installation instructions provided and inspect the equipment regularly at intervals specified within the "Maintenance Manual", located in your maintenance kit. During inspection, if any part is found to be damaged or excessively worn, equipment should immediately be put out of service while the part is replaced. Lack of maintenance will result in premature wear, reduced life expectancy and possible failure.

All Little Tikes Commercial Play Systems playevents have been designed and engineered to meet all applicable safety guidelines, but if installed improperly, problems may occur such as: protruding hardware, entrapment gaps between 89mm [3.5"] t0 229mm [9"], or string entanglements. Any accessible bolt ends that protrude beyond the face of the nut by more than two threads should be trimmed and peened smooth by the installer. Once your installation is complete, always inspect your work. Installation must be done to the manufacturer's assembly manual and applicable safety guidelines and/or standards.

The area immediately surrounding and above the play structure must be free of obstructions such as buildings, trees, other play equipment, etc.; must be kept clear for entries, exits and traffic. Make sure your site has the required surfacing and fall area designated on your Playground Layout Drawings.

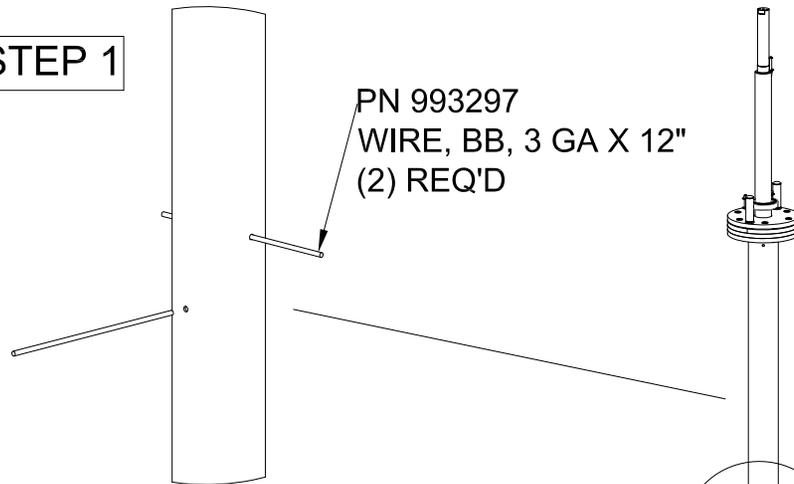
**ADULT SUPERVISION RECOMMENDED**

# INSTALL INSTRUCTION REVOLUTION INCLUSIVE SPINNER

I400008B  
SHEET 3 OF 4

AUTHORIZED BY: 13MAR17  
TRACY ARCHER

## STEP 1



### DIG FOOTING AND SET POST ASSEMBLY

1. Dig one footing, 24" dia x 48" deep.

Insert BB wire into pre-drilled holes in post assembly. Ensure equal amounts of wire protrude on both sides. Ensure post assembly is braced into footing level and plumb. Pour concrete and allow to cure for 72 hours prior to completing installation.

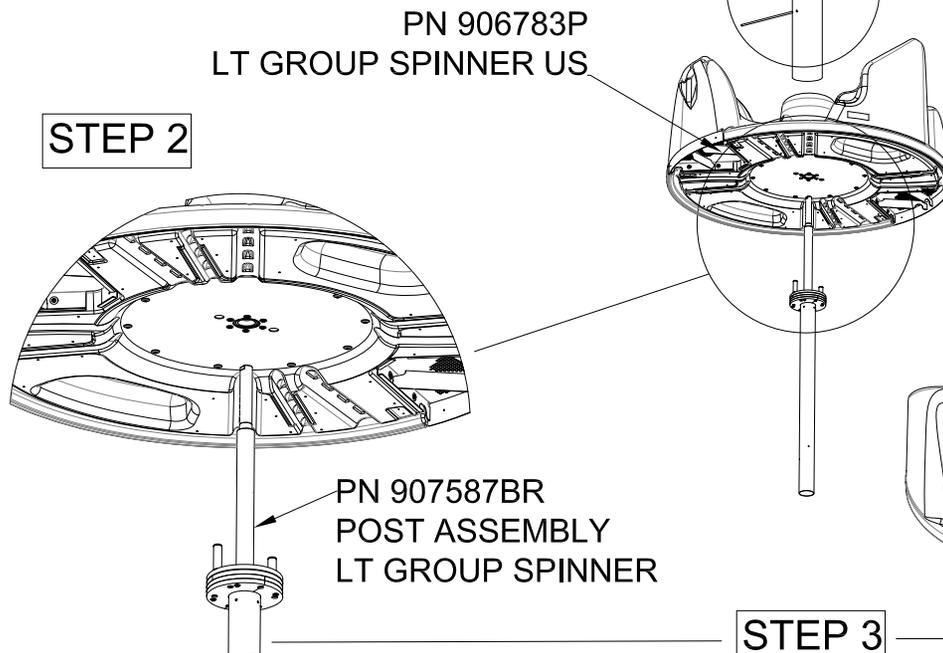
### INSERT POST ASSEMBLY INTO SPINNER

2. Set spinner onto post assembly. Ensure pins on post assembly line up with holes in bottom of spinner.

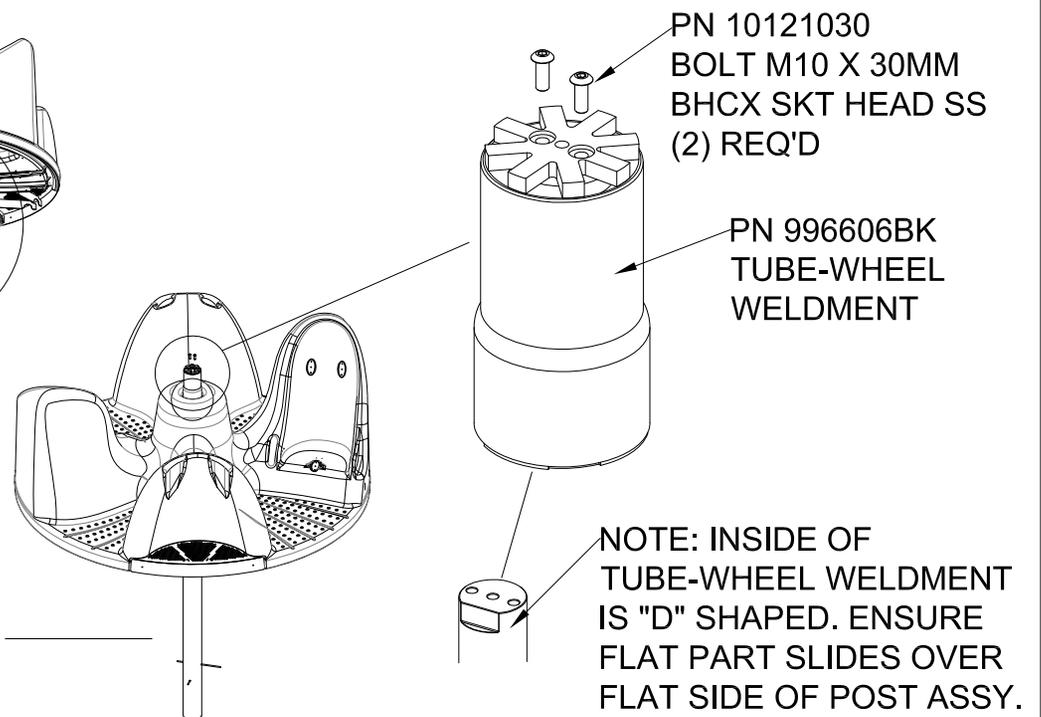
### ATTACH TUBE-WHEEL WELDMENT TO POST ASSEMBLY

3. Locate tube-wheel weldment. Set tube atop post assembly and line up two outer bolt holes on top of post assembly with two outer bolt holes on tubes top. Securely fasten via hardware shown.

## STEP 2



## STEP 3

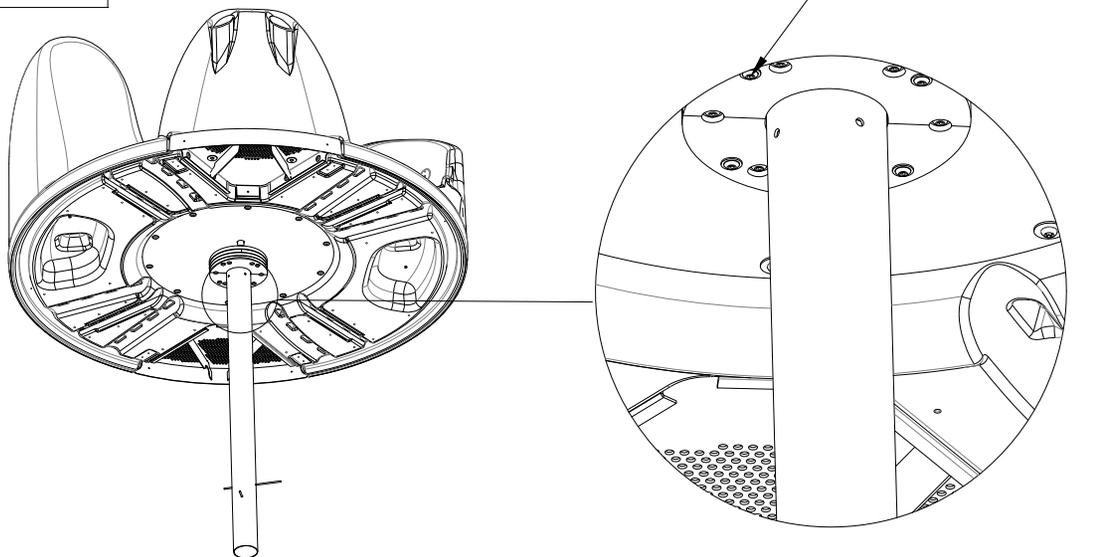


# INSTALL INSTRUCTION REVOLUTION INCLUSIVE SPINNER

I400008B  
SHEET 4 OF 4

AUTHORIZED BY: 13MAR17  
TRACY ARCHER

## STEP 4



### TEST SPINNER OPERATION

4. Giving spinner a firm push, note number of revolutions and ensure spinner revolves freely, quietly and smoothly.

- If spinner successfully and smoothly revolves 1 to 1 1/4 times before coming to a complete stop, move ahead to next step.
- If spinner revolves LESS than 1 time before coming to a complete stop, locate 6 recessed bolts on post assembly (shown at left) and LOOSEN counter clockwise 1/8th of a turn (45°) in all 6 recessed bolt locations.
- If spinner revolves MORE than 1 1/4 times before coming to a complete stop, locate 6 recessed bolts on post assembly (shown at left) and TIGHTEN clockwise 1/8th of a turn (45°) in all 6 recessed bolt locations.

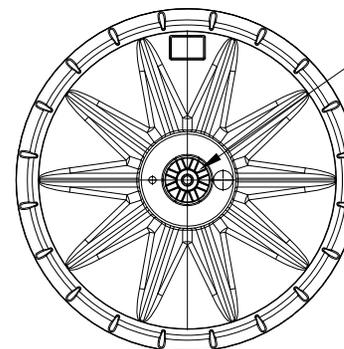
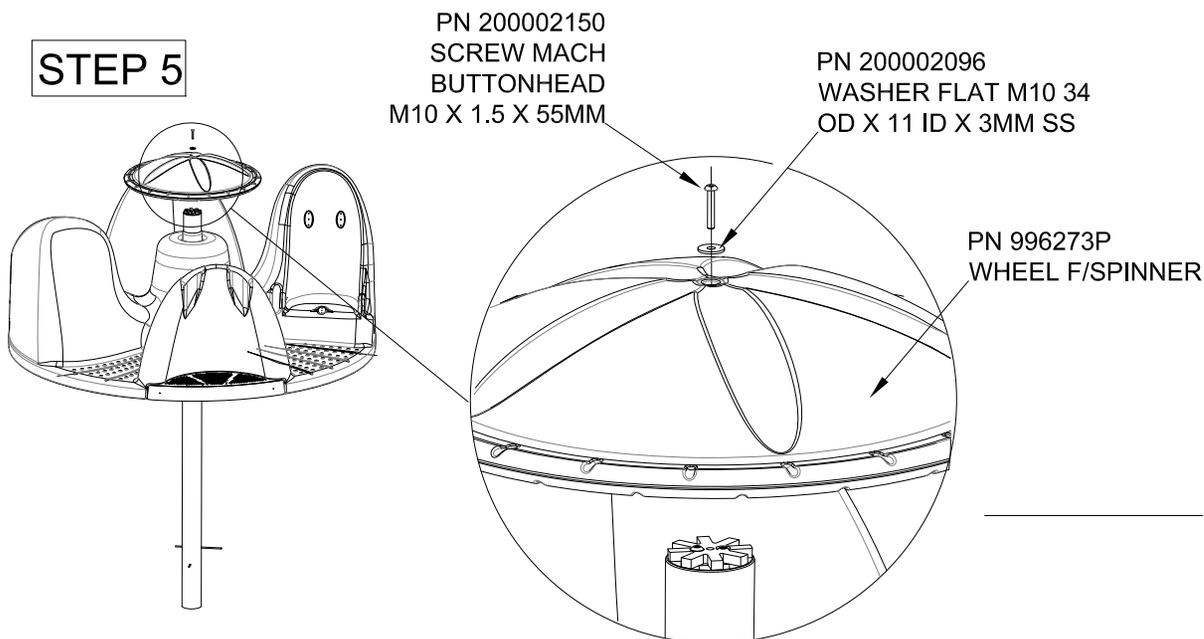
Retry spinning and continue to adjust as needed for smooth operation.

NOTE: This test needs to be repeated every 3-6 months after installation depending upon usage.

### ATTACH WHEEL-SPIN

5. Set wheel-spin atop tube, ensuring "star" arms on tube set into recessed "star" indentations on wheel-spin's underneath side. It is IMPORTANT that these line up correctly to create a cog-wheel effect. Fasten via hardware shown. Bolt will fasten into center bolt hole on tube.

## STEP 5





# ARCH 8' AND 10' -- SHORT, STANDARD, & LONG BEAM

200199547  
1800034C-S1  
Sheet 1 of 9

### Installation Instructions

1. Find and mark the appropriate locations for the footings. Make sure you have adequate area for the fall zone as specified on sheets 5, 6, and 7.
2. Dig footings to appropriate depth and diameter as shown on Footing Detail on sheet 2.
3. Place a brick in each footing hole, adjusting for proper level height of beam as specified on sheets 3 and 4.
4. Set arch posts (item 1) in footings and attach beam (item 2) to posts as shown in DETAIL 1. One multi-bay post and one additional beam will be required for each additional bay.
5. Make sure beam is level and at the proper height. Tighten all hardware.
6. Pour concrete. Allow at least 48 hours to cure.
7. Put 76mm (3") earth backfill in place.
8. Install resilient ground surfacing.
9. See separate installation instructions for swing seat installation details, and placement of age appropriate labels on the arches.

**Note:** For additional swing bays repeat steps 1-5, insuring all arch posts are plumb, and all beams are level and at the proper height. Then, complete structure with steps 6-9.

### Specifications

**Beam** shall be fabricated from 60mm (2.375") O.D. 5 gauge pre-galvanized steel tube. It shall be painted per PPLT PAINT Specification.

**Legs and Arch** are to be of one piece construction fabricated from 127mm (5") 11 gauge pre-galvanized steel tube. It shall be painted per PPLT PAINT Specification.

**Anti-Wrap-over swing bearings** (U.S. Patent 6,123,480) shall be fabricated from 415D sand cast Aluminum Bronze with injection molded nylatron plastic sleeve.

AUTHORIZED BY: 10JAN18  
STEVE ADKINS

### ARCH 8' SHORT BEAM 200200414

Item	Code	Description	Qty.
1A	-	POST/S F/KB 8' ARCH SWG W/STKR	2
2A	-	SHORT BEAM F/INCL.SWING	1

### ARCH 8' STANDARD BEAM 200202228

Item	Code	Description	Qty.
1A	-	POST/S F/KB 8' ARCH SWG W/STKR	2
2B	-	BEAM HD SWING W/BEARINGS(3200)	1

### ARCH 8' LONG BEAM 200200318

Item	Code	Description	Qty.
1A	-	POST/S F/KB 8' ARCH SWG W/STKR	2
2C	-	BEAM W/BEARINGS F/INCL.SWING (3700)	1

### ARCH 10' SHORT BEAM 200202830

Item	Code	Description	Qty.
1B	-	POST F/KB 10' ARCH SWING (WITH STICKERS)	2
2A	-	SHORT BEAM F/INCL.SWING	1

### ARCH 10' STANDARD BEAM 200202719

Item	Code	Description	Qty.
1B	-	POST F/KB 10' ARCH SWING (WITH STICKERS)	2
2B	-	BEAM HD SWING W/BEARINGS(3200)	1

### HDWR BAG F/KB ARCH SWING BEAM 200199519

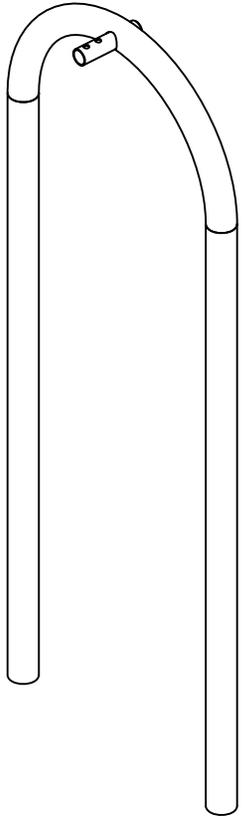
Item	Code	Description	Qty.
3	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30MM	4
4	200002142	BOLT M8 X 1.25 MALE 57.5MM	4
5	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	12
6	200001167	T-45 TAMPER PROOF KEY (TORX WRENCH)	2

ARCH 8' AND 10' -- SHORT, STANDARD, & LONG BEAM

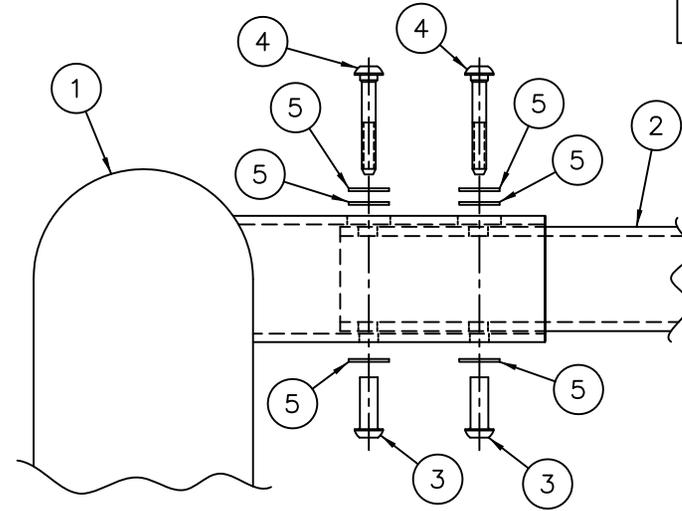
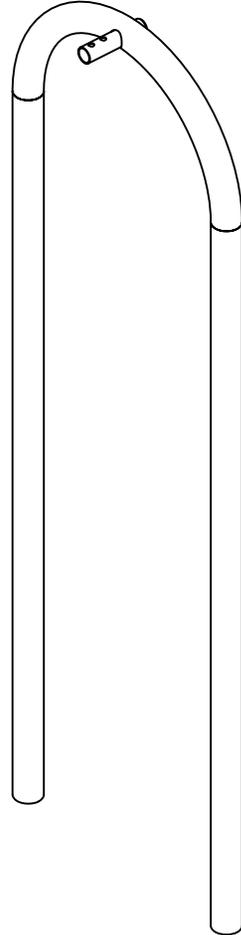
200199547  
1800034C-S2  
Sheet 2 of 9

AUTHORIZED BY: 10JAN18  
STEVE ADKINS

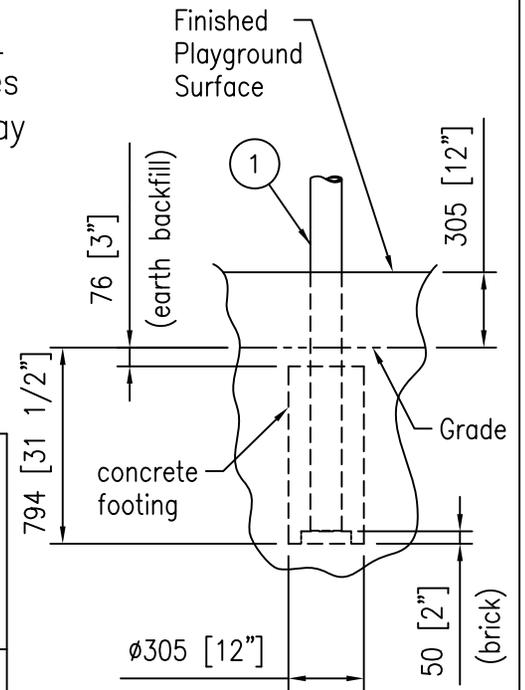
1A



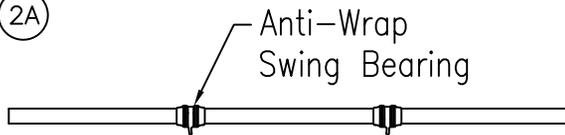
1B



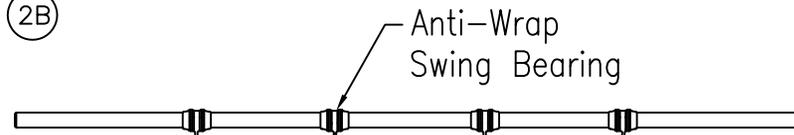
DETAIL 1  
Typ 2 Places  
per swing bay



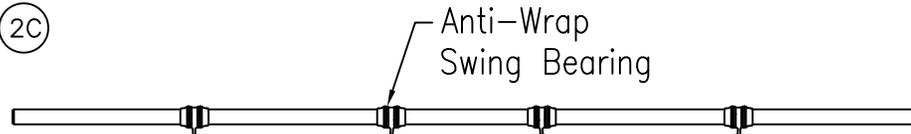
2A



2B

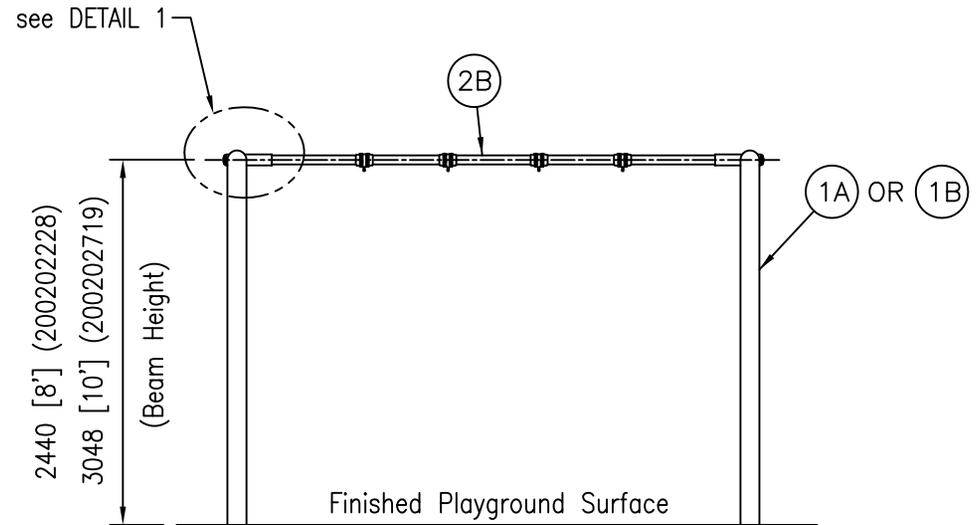
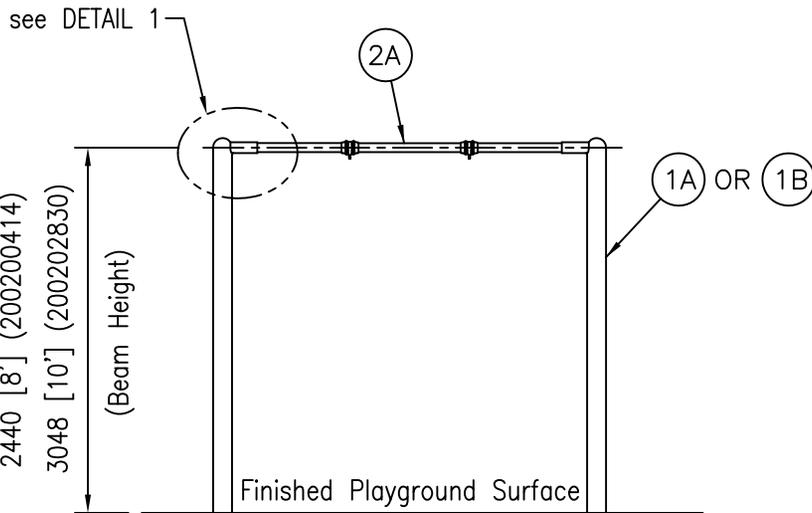
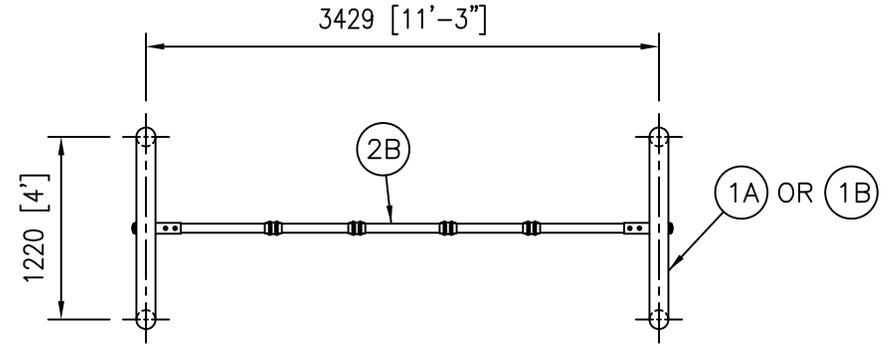
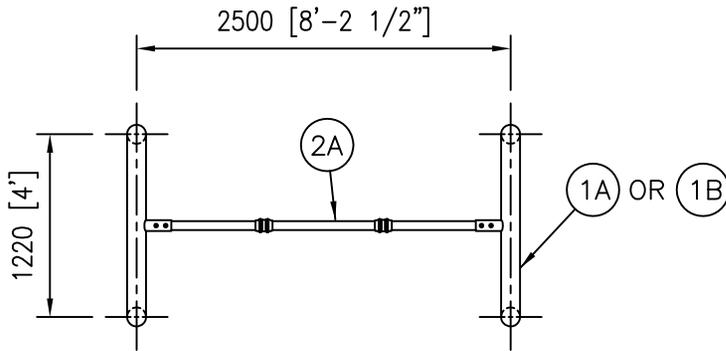


2C



Footing Detail

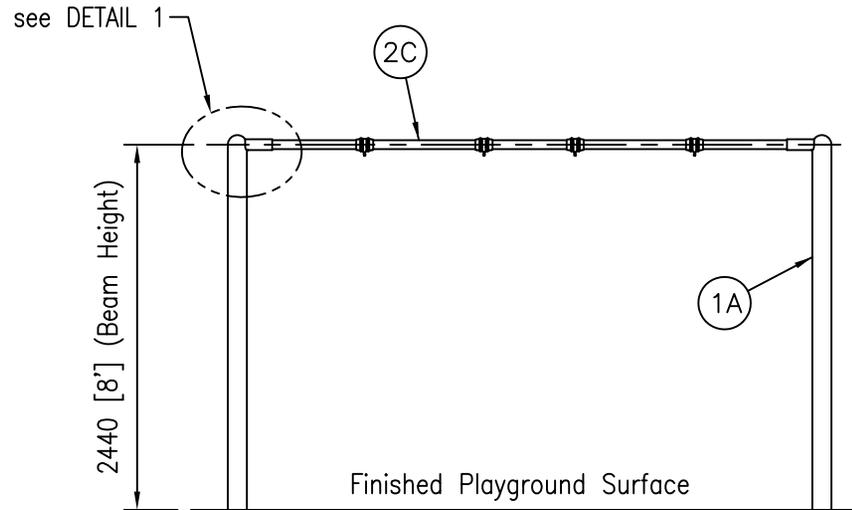
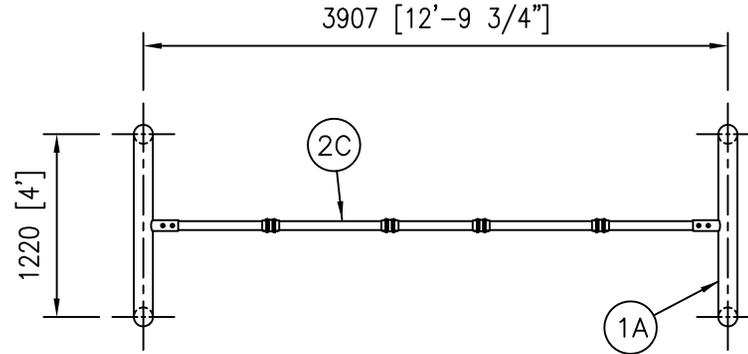
TOP AND FRONT VIEWS



8' (200200414)  
10' (200202830)  
ARCH POSTS with SHORT BEAM  
(1 seat)

8' (200202228)  
10' (200202719)  
ARCH POSTS with STANDARD BEAM  
(2 seats)

TOP AND FRONT VIEWS

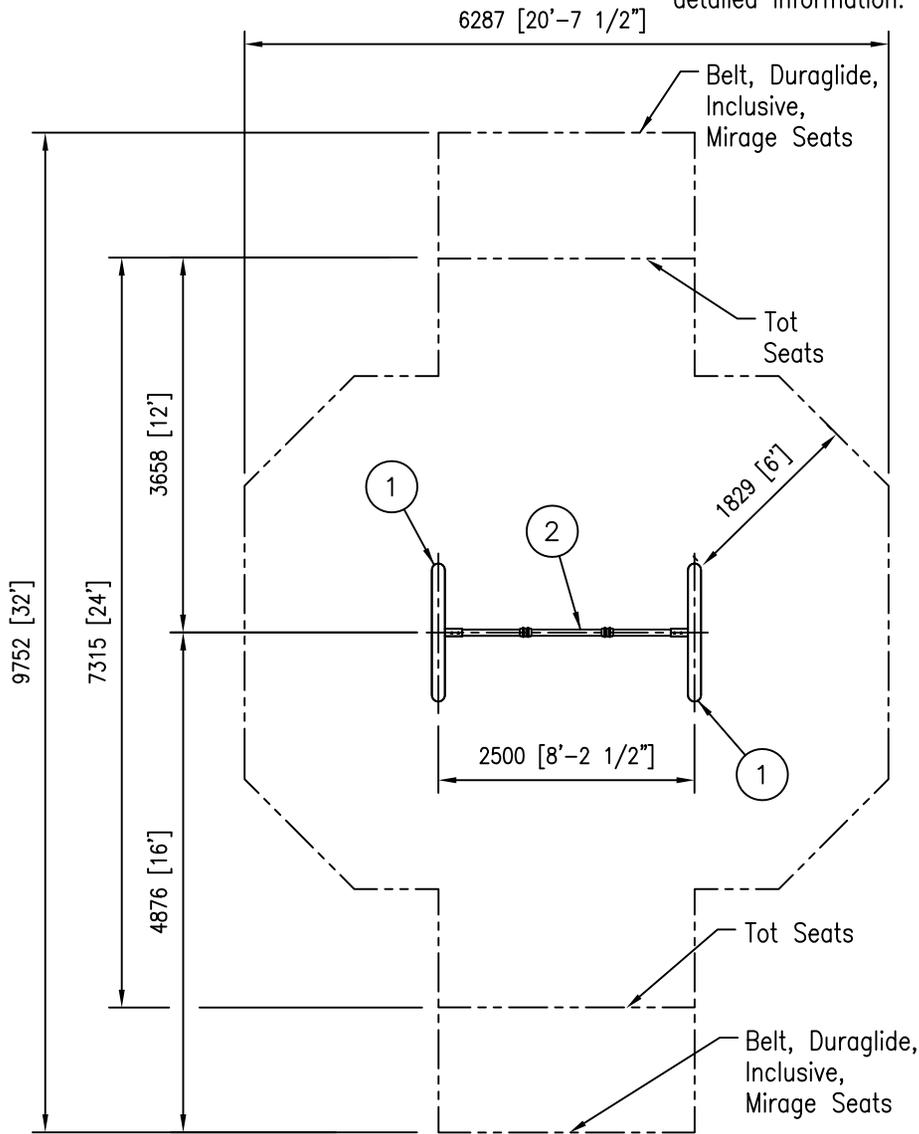


200200318  
8' ARCH POSTS  
with LONG BEAM  
(2 seats)

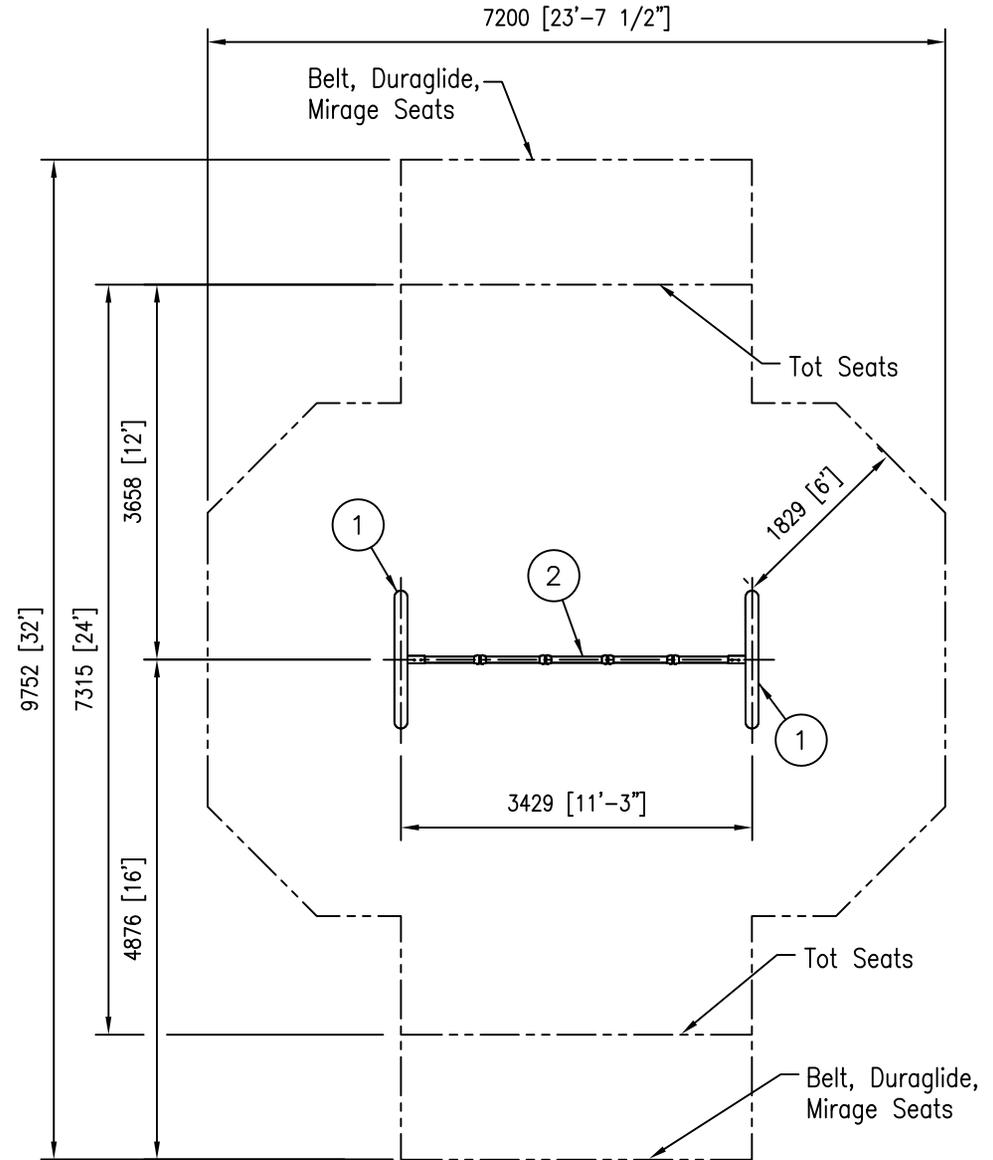
8' USE ZONES

Use zones shown are per ASTM 1487. Requirements for compliance to other standards may vary. Consult the layout provided with your order for more detailed information.

AUTHORIZED BY: 10JAN18  
STEVE ADKINS



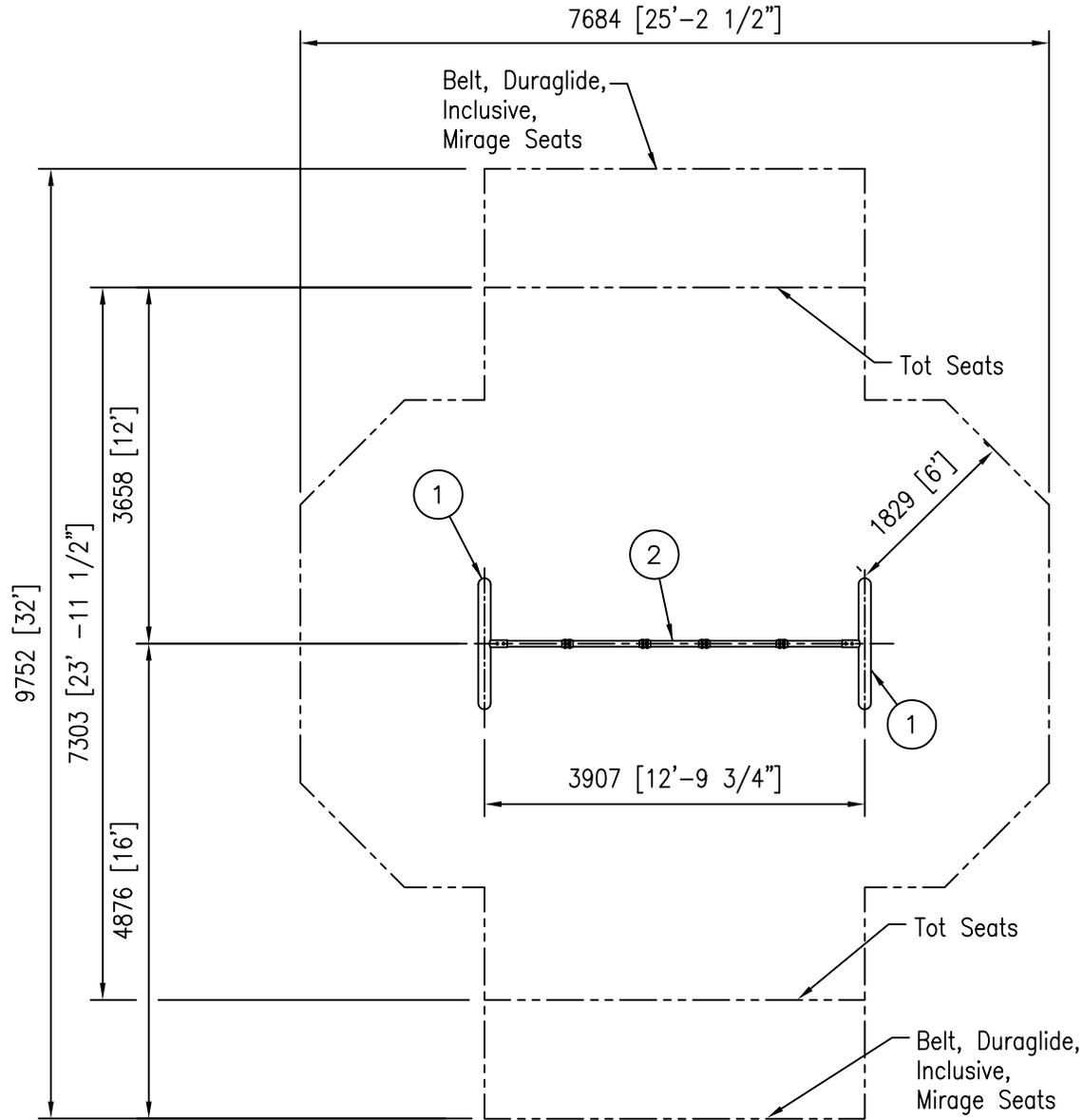
8' SHORT BEAM



8' STANDARD BEAM

## 8' USE ZONES

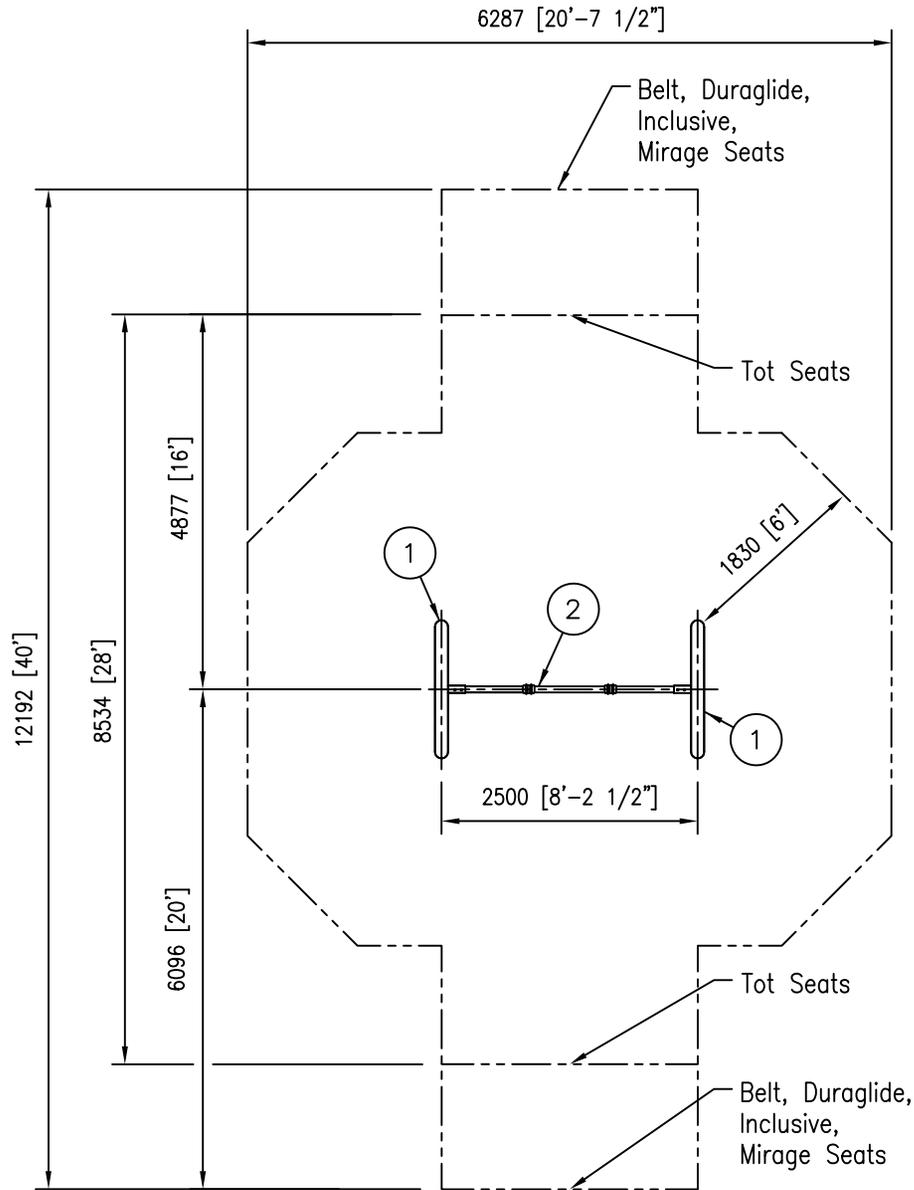
Use zones shown are per ASTM 1487. Requirements for compliance to other standards may vary. Consult the layout provided with your order for more detailed information.



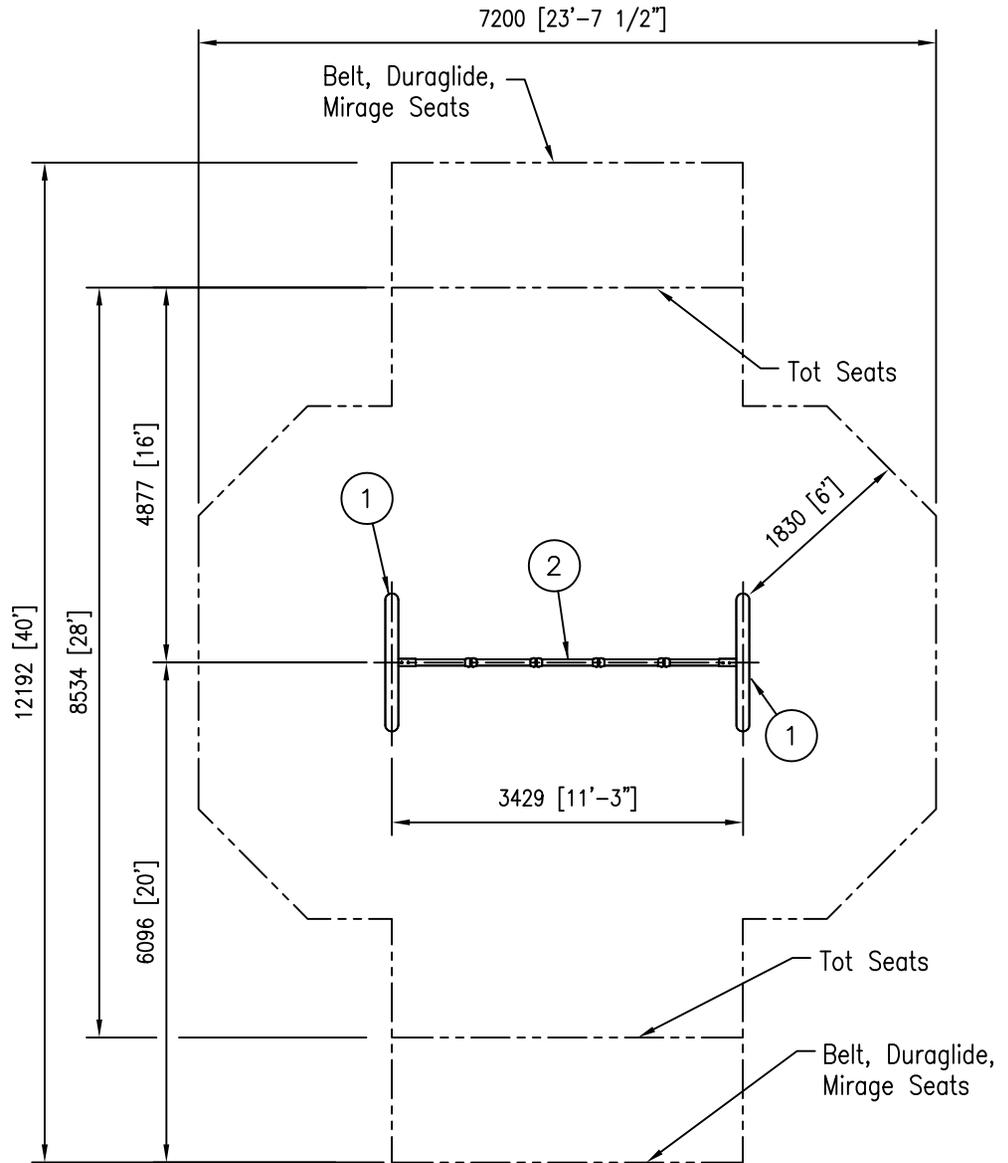
## 8' LONG BEAM

## 10' USE ZONES

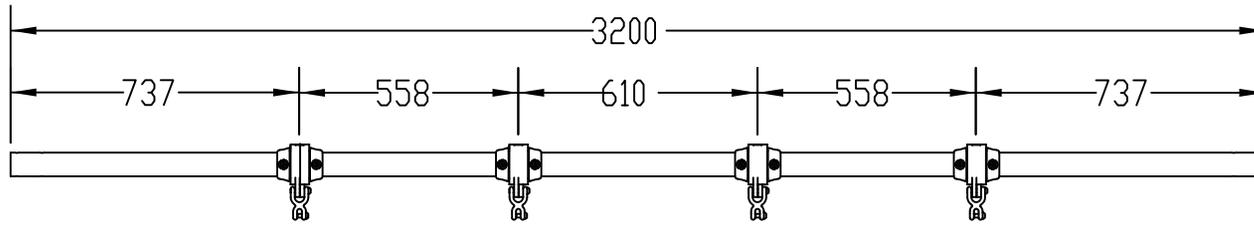
Use zones shown are per ASTM 1487. Requirements for compliance to other standards may vary. Consult the layout provided with your order for more detailed information.



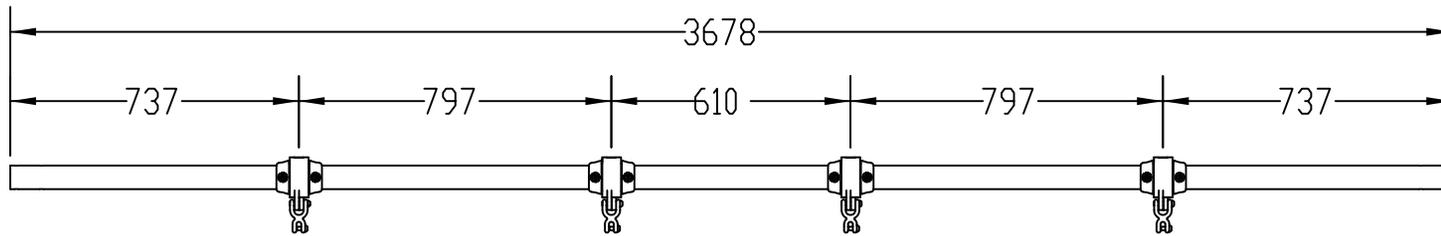
10' SHORT BEAM



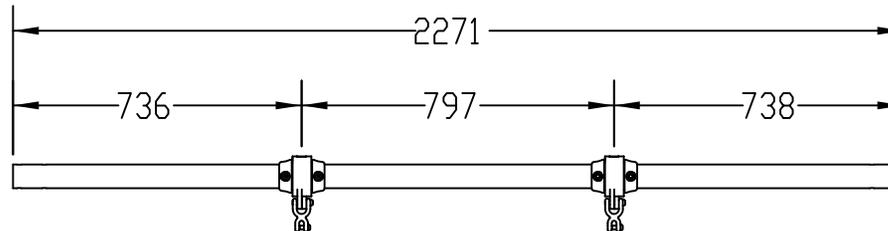
10' STANDARD BEAM



ANTI-WRAP HANGER SPACING - (2) SEAT



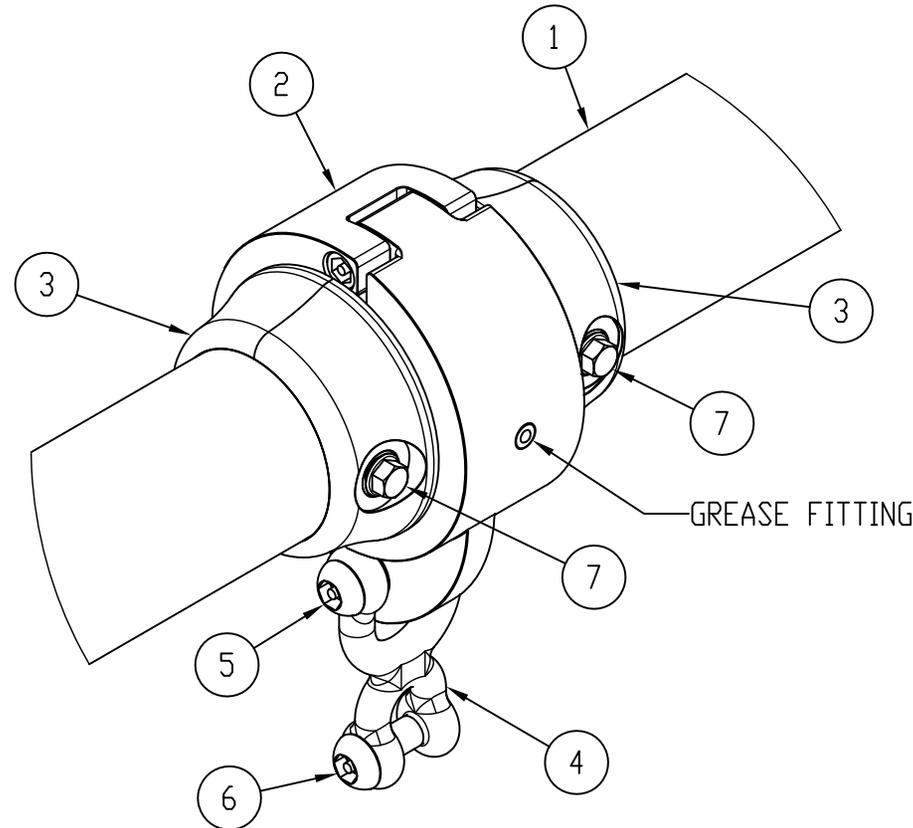
ANTI-WRAP HANGER SPACING - (2) INCLUSIVE SEAT



ANTI-WRAP HANGER SPACING - (1) INCLUSIVE SEAT

<p>THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF PLAYPOWER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF PLAYPOWER IS PROHIBITED.</p>	<p>TITLE: ANTI-WRAP SWING HANGER LAYOUT</p>	
	<p>DIMENSIONS ARE IN MM UNLESS STATED OTHERWISE</p>	
	<p>TOLERANCES UNLESS OTHERWISE STATED</p>	
	<p>LINEAR: &gt;0MM =&gt; 100MM ±1MM &gt;100MM =&gt; 1500MM ±2MM &gt;1500MM =&gt; 3000MM ±3MM &gt;3000MM ±6MM ANGULAR ± 1°</p>	
<p>WEIGHT: LB</p>	<p>AS INDEXED</p>	
<p>DRAWN BY/DATE: SBA 09JAN18</p>		<p>CHECKED/DATE: TRA 09JAN18</p>
<p>APPROVAL/DATE: CDW 09JAN18</p>		<p>1 OF 2</p>
<p>ORG No. ANTI-WRAP</p>		<p>REV A</p>

AUTHORIZED BY: 10JAN18  
STEVE ADKINS



- REMOVE THE CLEVIS - ITEM 4 BY REMOVING THE BOLT - ITEM 5. SET THE BOLT ASIDE.
- OPEN THE HANGER ASSY. UP - ITEM 2 AND REMOVE THE BUSHING HALVES - ITEM 3. CENTER ONE OF THE BUSHING HALVES ON TO THE BEAM - ITEM 1 USING THE HANGER LAYOUT FOR LOCATION. ATTACH USING 2 OF THE 1/4-14 X 1-1/4" BOLTS - ITEM 7.
- REPEAT WITH THE OTHER BUSHING HALF. NOTE THAT THE BUSHING HALVES WILL NOT COMPLETELY MATE ON THE SWING BEAM. ALIGN THE TABS WITH THE NOTCHES, AND ENSURE THE GAP BETWEEN THE BUSHING HALVES IS EQUAL ON BOTH SIDES OF THE SWING BEAM.
- PLACE THE HANGER ASSY. - ITEM 2 AROUND THE BUSHING HALVES - ITEM 3.
- APPLY VIBRA-TITE THREADLOCKER TO THE END OF THE BOLT THAT WAS SET ASIDE - ITEM 5. ATTACH THE CLEVIS - ITEM 4 BACK TO THE HANGER ASSY. USING THIS BOLT. TIGHTEN ALL HARDWARE.
- USING A GREASE GUN, PLACE A SUFFICIENT AMOUNT OF ALL-PURPOSE GREASE INTO THE GREASE FITTING TO ALLOW THE HANGE TO SWING FREELY.

ITEM	QTY	PART NO.	Description
7	4	104403	BOLT 1/4-14 X 1 1/4 HEX WASHER
6	1	-	3/8-16 X 1-1/4" BHCS HEX SOCKET W/PIN - GALV
5	1	-	3/8-16 X 1-13/16" BHCS HEX SOCKET W/PIN - GALV
4	1	-	CLEVIS
3	2	-	BUSHING HALF
2	1	-	ANTI-WRAP HANGER ASSY
1	1	-	BEAM F/SWING

<p>THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF PLAYPOWER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF PLAYPOWER IS PROHIBITED.</p>	<p>TITLE: ANTI-WRAP SWING HANGER LAYOUT</p>		
	<p>AS INDEXED</p>		
<p>WEIGHT: LB</p>	<p>DRAWN BY/DATE</p> <p>SBA 09JAN18</p>	<p>CHECKED/DATE</p> <p>TRA 09JAN18</p>	<p>APPROVAL/DATE</p> <p>CDW 09JAN18</p>
	<p>SHEET No.</p> <p>2 OF 2</p>	<p>URG No.</p> <p>ANTI-WRAP</p>	<p>REV</p> <p>A</p>



# ARCH 8' AND 10' ADD-ON -- SHORT, STANDARD, & LONG BEAM

200199548

1800035C

SHEET 1 OF 8

AUTHORIZED BY: 10JAN18  
STEVE ADKINS

## Installation Instructions

1. Find and mark the appropriate locations for the footings. Make sure you have adequate area for fall zone as specified.
2. Dig footings to appropriate depth and diameter.
3. Place a brick in each footing hole, adjusting for proper level height of beam as specified.
4. Set arch post (item 1A) and add-on bay (item 1B) in footings and attach beam to posts as shown in Detail 1. (One multi-bay post (item 1B) and one additional beam (item 2) will be required for each additional bay)
5. Make sure beam is level and at the proper height.
6. Pour concrete. Allow at least 48 hours to cure.
7. Put 76mm (3") earth backfill in place.
8. Install resilient ground surfacing.
9. Tighten all hardware.

Note: For additional swing bays repeat steps 1-5, insuring all arch posts are plumb, and all beams are level and at the proper height.

## Specifications

**Beam** shall be fabricated from 60mm (2.375") O.D. 5 gauge pre-galvanized steel tube. It shall be painted per PPLT PAINT Specification.

**Legs and Arch** are to be of one piece construction fabricated from 127mm (5") 11 gauge pre-galvanized steel tube. It shall be painted per PPLT PAINT Specification.

**Anti-Wrap-over swing bearings** (U.S. Patent 6,123,480) shall be fabricated from 415D sand cast Aluminum Bronze with injection molded nylatron plastic sleeve.

ARCH 8' ADD-ON SHORT BEAM	200200415
ARCH 8' ADD-ON STANDARD BEAM	200202230
ARCH 8' ADD-ON LONG BEAM	200200319
ARCH 10' ADD-ON SHORT BEAM	200202829
ARCH 10' ADD-ON STANDARD BEAM	200202718

Item	Code	Required F/Each Additional Bay	Qty.
1A	-	POST ADD-ON F/KB 8' ARCH SWG	1
1B	-	POST ADD-ON F/KB 10' ARCH SWG	1
1C	-	POST F/KB 8' ARCH SWG	1
1D	-	POST F/KB 10' ARCH SWG	1
2A	-	BEAM 3200mm TP HEAVY SWING	1
2B	-	SHORT BEAM W/HOLES F/INCL. SWING	1
2C	-	LONG BEAM W/HOLES F/INCL. SWING	1

## HDWR BAG F/KB ARCH SWING BEAM 200199519

Item	Code	Required F/Each Additional Bay	Qty.
3	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30MM	4
4	200002142	BOLT M8 X 1.25 MALE 57.5MM	4
5	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	12
6	200001167	T-45 TAMPER PROOF KEY (TORX WRENCH)	2

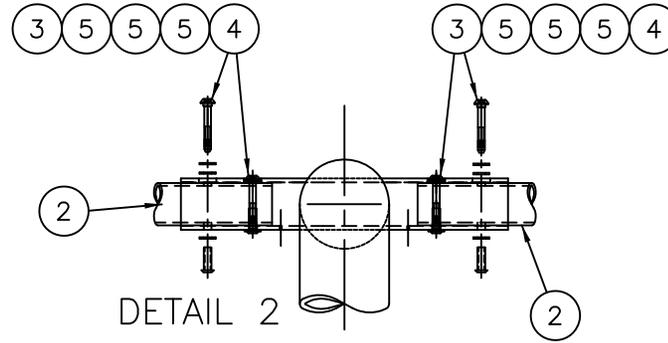
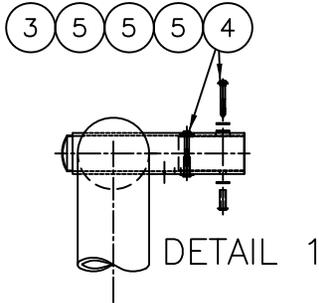
NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS



# ARCH 8' AND 10' ADD-ON -- SHORT, STANDARD, & LONG BEAM

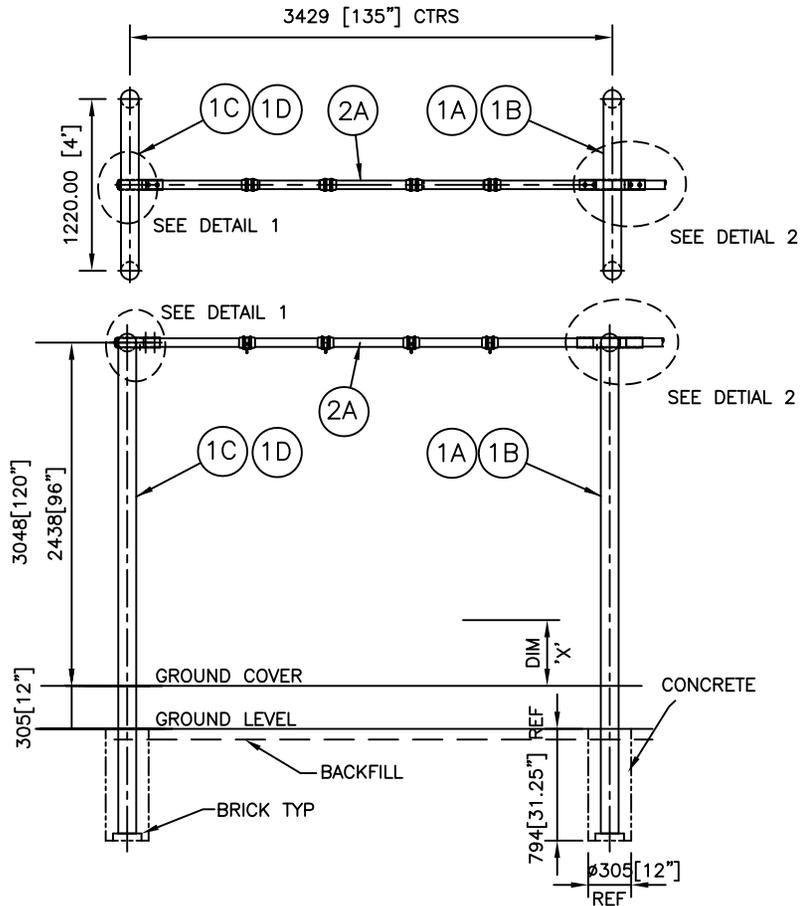
200199548  
1800035C  
Sheet 2 of 8

AUTHORIZED BY: 10JAN18  
STEVE ADKINS

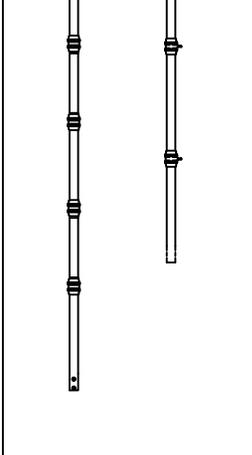
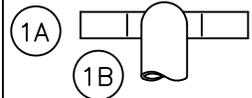
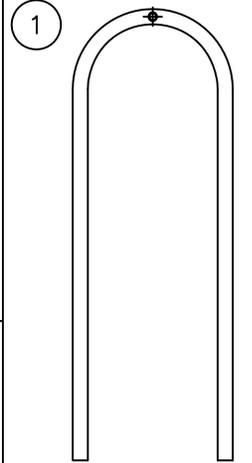
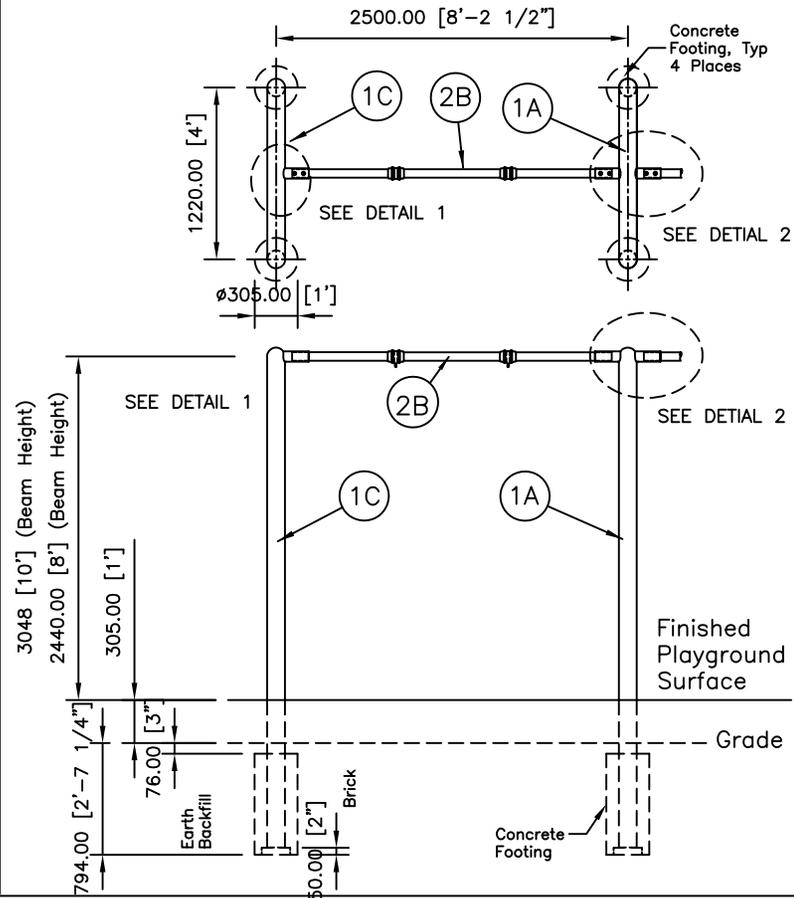


NOTE: FOR AGE LABEL PLACEMENT REFER TO INSTRUCTION #SW00001

## STANDARD BAY 2 SEAT BEAM



## SHORT BAY 1 SEAT BEAM





ARCH 8' AND 10' ADD-ON -- SHORT, STANDARD, & LONG BEAM

200199548

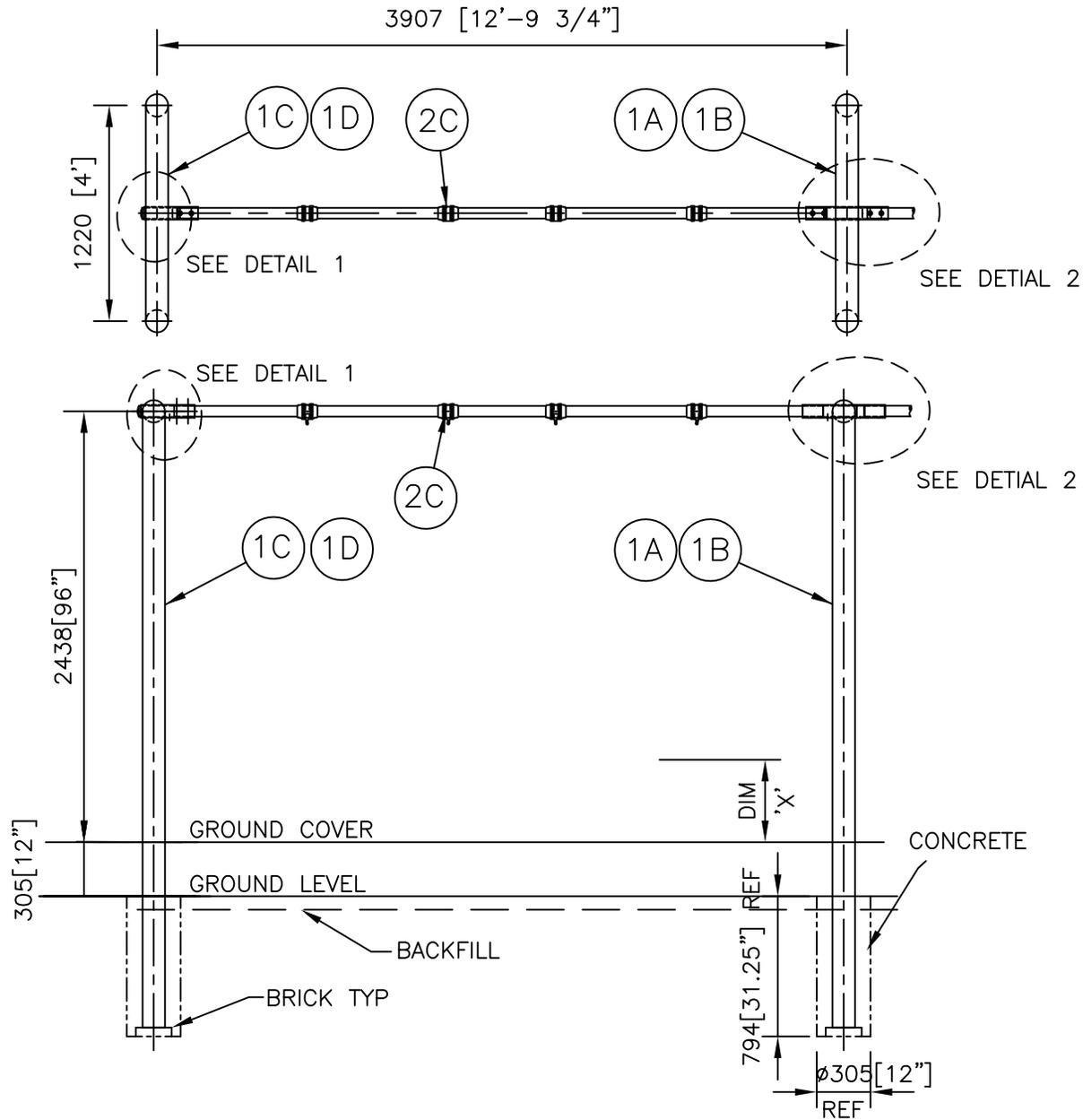
1800035C

Sheet 3 of 8

AUTHORIZED BY: 10JAN18

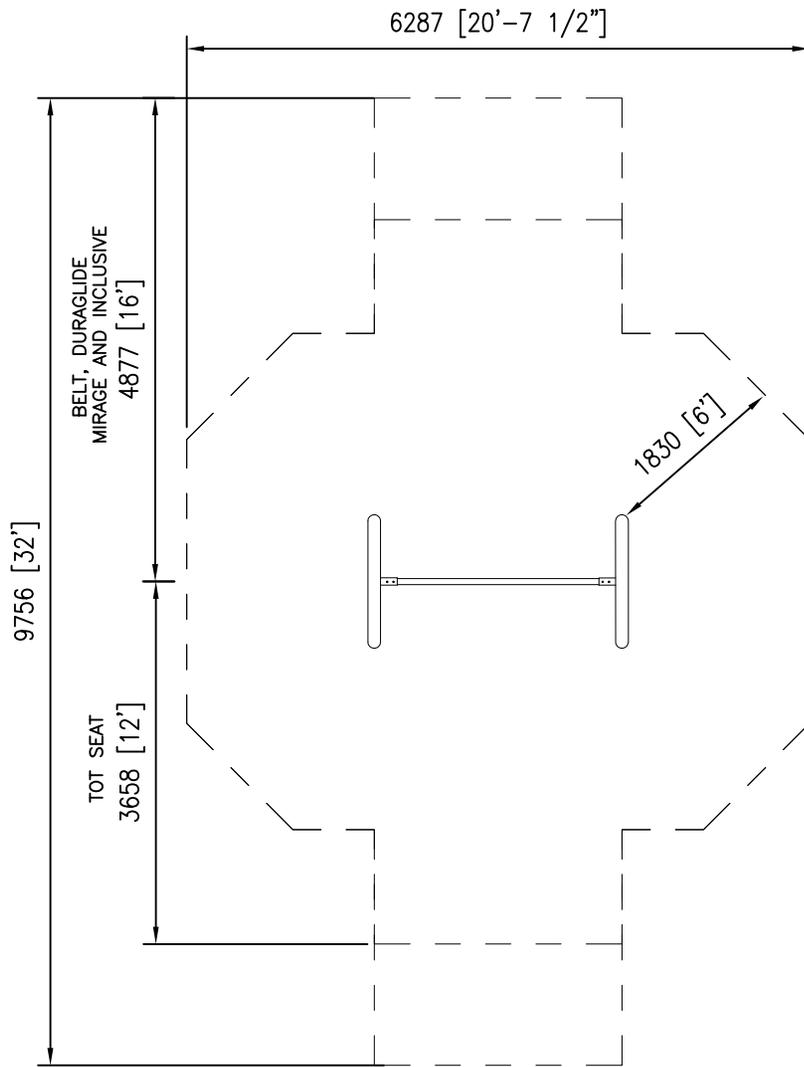
STEVE ADKINS

LONG BAY 2 SEAT BEAM

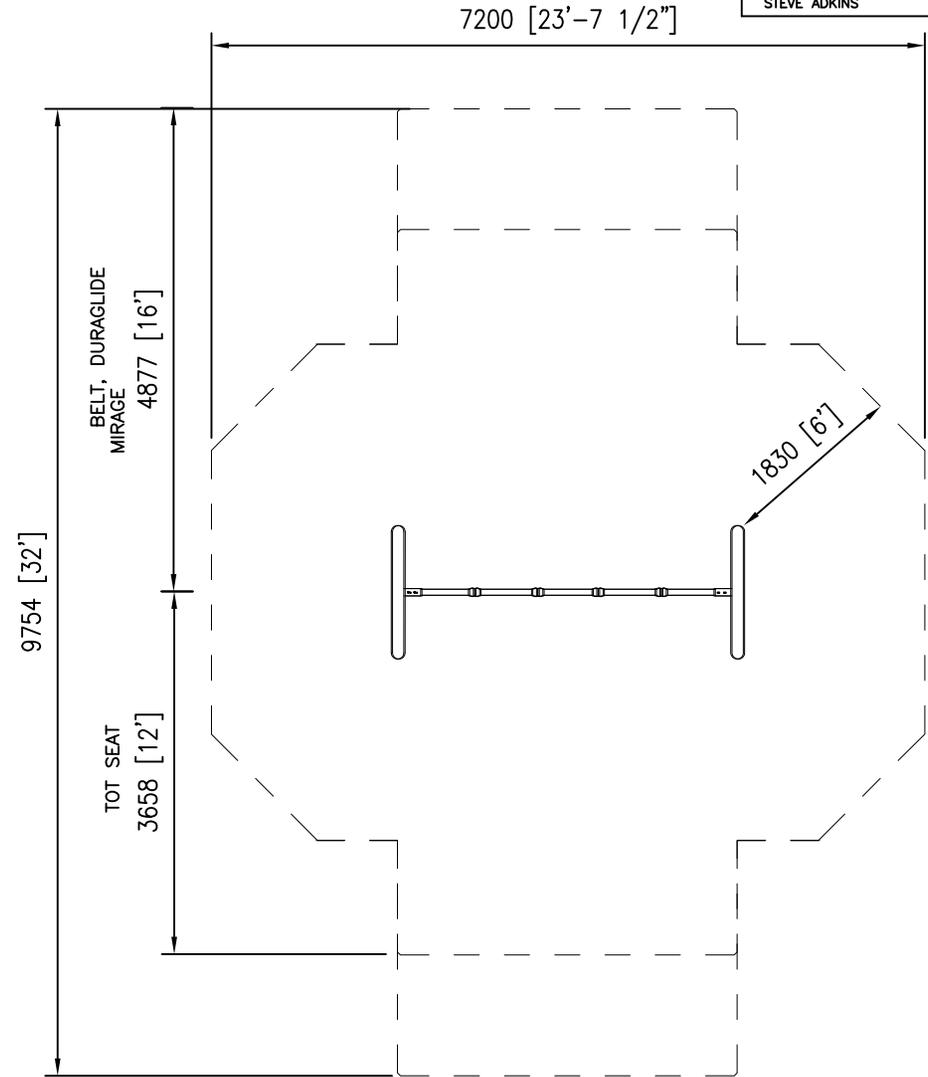


8' USE ZONE

AUTHORIZED BY: 10JAN18  
STEVE ADKINS



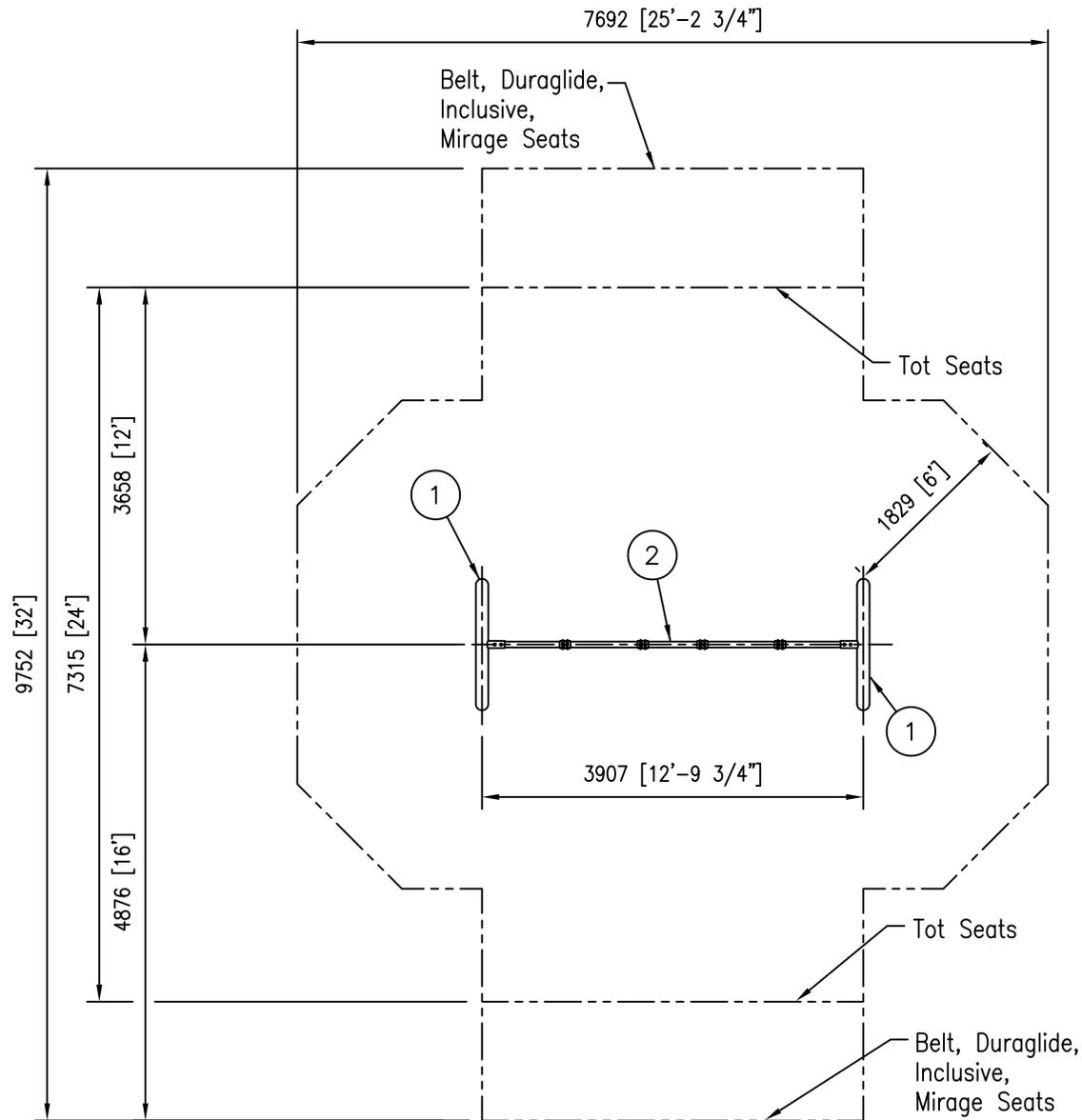
8' SHORT BEAM USE ZONE



8' STANDARD BEAM USE ZONE

Use zones shown are per ASTM 1487. Requirements for compliance to other standards may vary. Consult the layout provided with your order for more detailed information.

8' USE ZONES

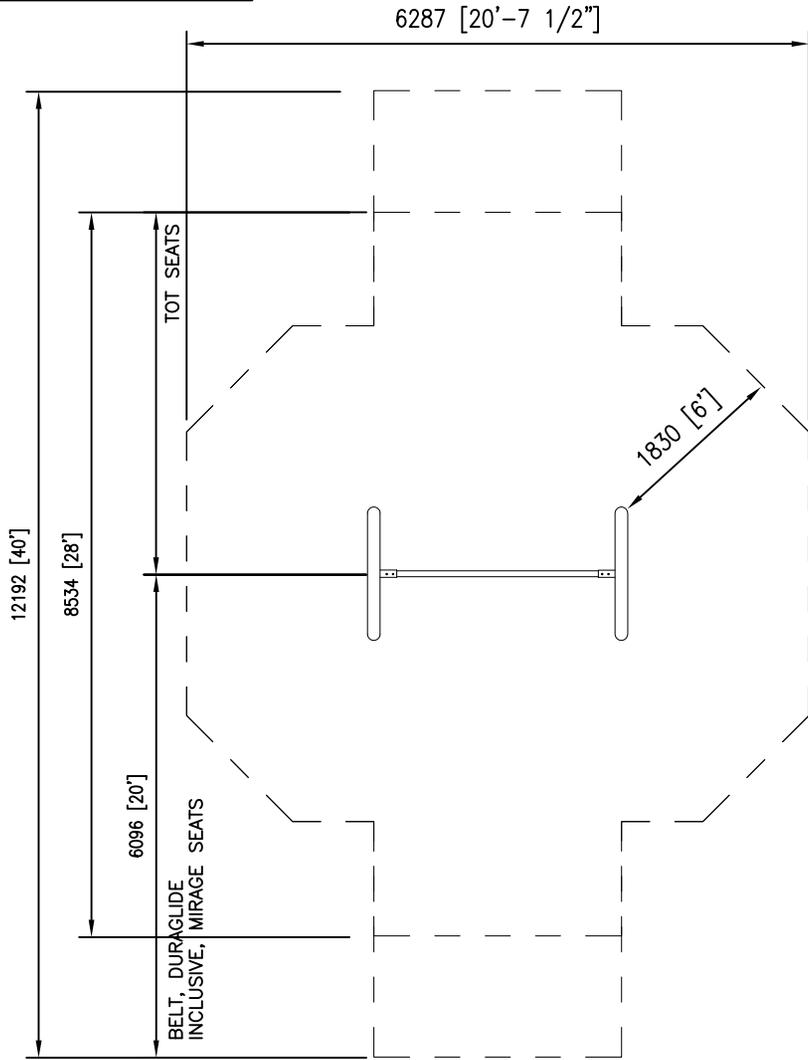


8' LONG BEAM USE ZONE

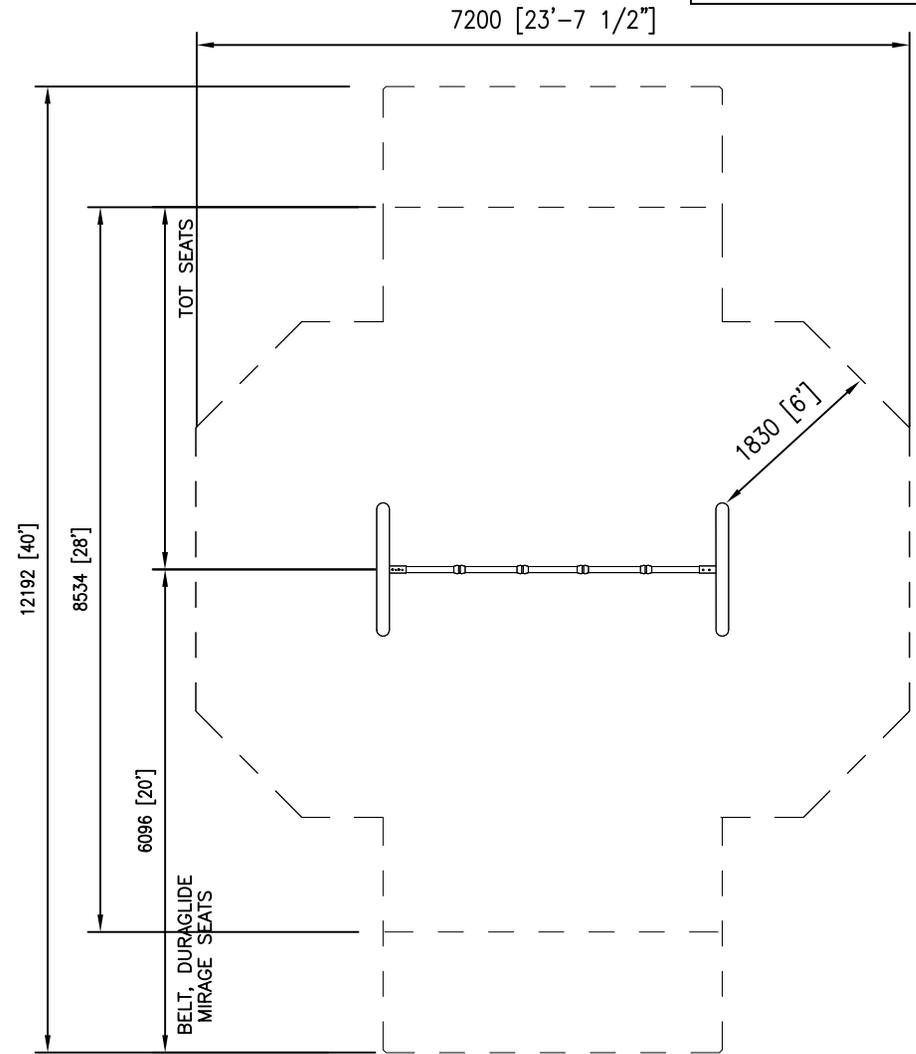
Use zones shown are per ASTM 1487. Requirements for compliance to other standards may vary. Consult the layout provided with your order for more detailed information.

10' USE ZONE

AUTHORIZED BY: 10JAN18  
STEVE ADKINS

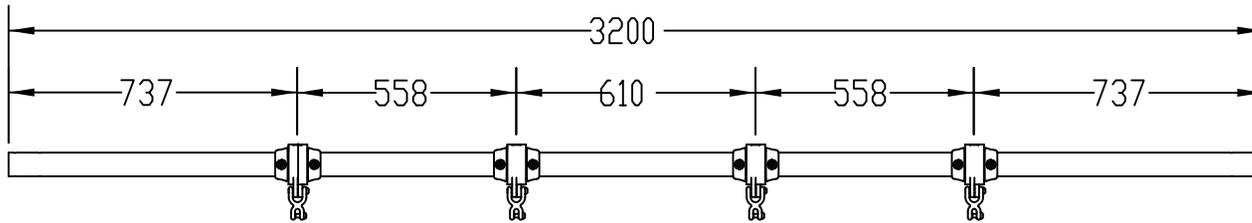


10' SHORT BEAM USE ZONE

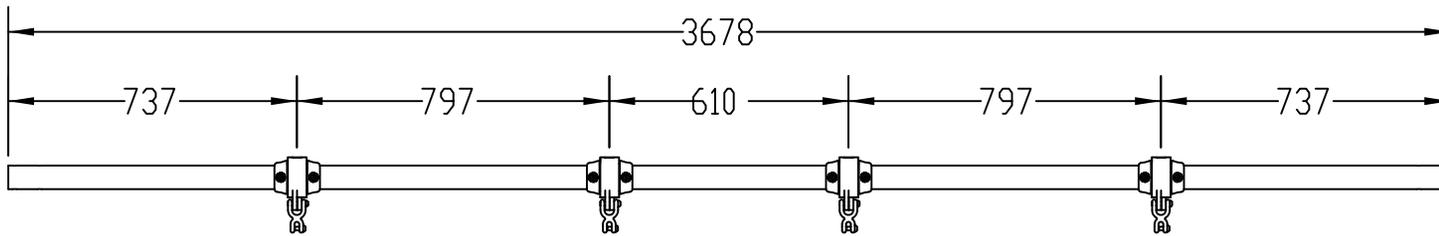


10' STANDARD BEAM USE ZONE

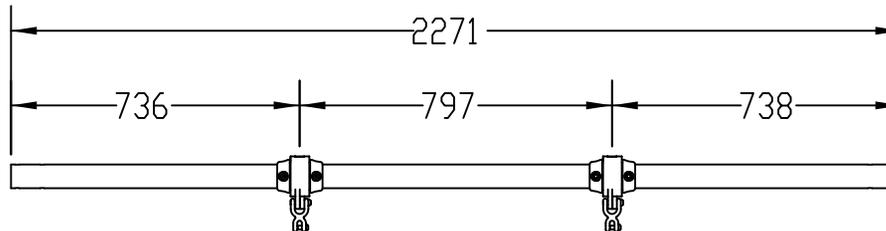
Use zones shown are per ASTM 1487. Requirements for compliance to other standards may vary. Consult the layout provided with your order for more detailed information.



ANTI-WRAP HANGER SPACING - (2) SEAT



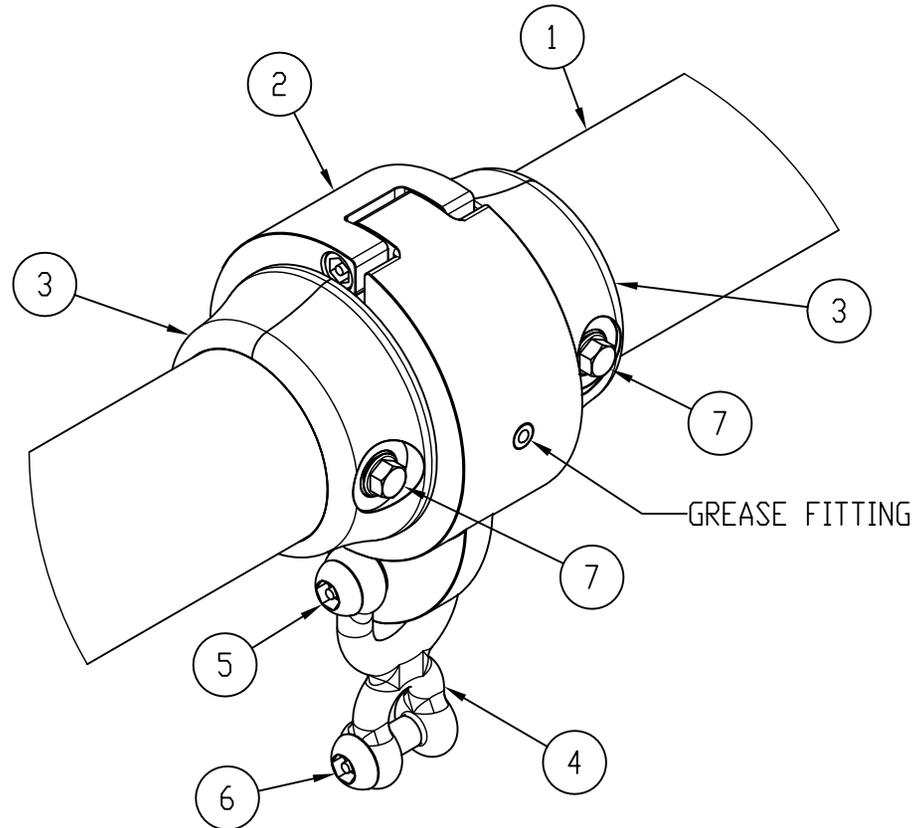
ANTI-WRAP HANGER SPACING - (2) INCLUSIVE SEAT



ANTI-WRAP HANGER SPACING - (1) INCLUSIVE SEAT

<p>THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF PLAYPOWER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF PLAYPOWER IS PROHIBITED.</p>	<p>TITLE: ANTI-WRAP SWING HANGER LAYOUT</p>	
	<p>DIMENSIONS ARE IN MM UNLESS STATED OTHERWISE</p>	
	<p>TOLERANCES UNLESS OTHERWISE STATED</p>	
<p>WEIGHT: LB</p>	<p>LINEAR: &gt;0MM =&gt; 100MM ±1MM</p>	<p>AS INDEXED</p>
	<p>&gt;100MM =&gt; 1500MM ±2MM</p>	<p>DRAWN BY/DATE</p>
	<p>&gt;1500MM =&gt; 3000MM ±3MM</p>	<p>CHECKED/DATE</p>
	<p>&gt;3000MM ±6MM</p>	<p>APPROVAL/DATE</p>
	<p>ANGULAR ± 1°</p>	<p>SBA 09JAN18 TRA 09JAN18 CDW 09JAN18</p>
	<p>1 OF 2</p>	<p>ANTI-WRAP</p>

AUTHORIZED BY: 10JAN18  
STEVE ADKINS



- REMOVE THE CLEVIS - ITEM 4 BY REMOVING THE BOLT - ITEM 5. SET THE BOLT ASIDE.
- OPEN THE HANGER ASSY. UP - ITEM 2 AND REMOVE THE BUSHING HALVES - ITEM 3. CENTER ONE OF THE BUSHING HALVES ON TO THE BEAM - ITEM 1 USING THE HANGER LAYOUT FOR LOCATION. ATTACH USING 2 OF THE 1/4-14 X 1-1/4" BOLTS - ITEM 7.
- REPEAT WITH THE OTHER BUSHING HALF. NOTE THAT THE BUSHING HALVES WILL NOT COMPLETELY MATE ON THE SWING BEAM. ALIGN THE TABS WITH HE NOTCHES, AND ENSURE THE GAP BETWEEN THE BUSHING HALVES IS EQUAL ON BOTH SIDES OF THE SWING BEAM.
- PLACE THE HANGER ASSY. - ITEM 2 AROUND THE BUSHING HALVES - ITEM 3.
- APPLY VIBRA-TITE THREADLOCKER TO THE END OF THE BOLT THAT WAS SET ASIDE - ITEM 5. ATTACH THE CLEVIS - ITEM 4 BACK TO THE HANGER ASSY. USING THIS BOLT. TIGHTEN ALL HARDWARE.
- USING A GREASE GUN, PLACE A SUFFICIENT AMOUNT OF ALL-PURPOSE GREASE INTO THE GREASE FITTING TO ALLOW THE HANGE TO SWING FREELY.

7	4	104403	BOLT 1/4-14 X 1 1/4 HEX WASHER
6	1	-	3/8-16 X 1-1/4" BHCS HEX SOCKET W/PIN - GALV
5	1	-	3/8-16 X 1-13/16" BHCS HEX SOCKET W/PIN - GALV
4	1	-	CLEVIS
3	2	-	BUSHING HALF
2	1	-	ANTI-WRAP HANGER ASSY
1	1	-	BEAM F/SWING
ITEM	QTY	PART NO.	Description

TITLE:		ANTI-WRAP SWING HANGER LAYOUT		
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF PLAYPOWER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF PLAYPOWER IS PROHIBITED.		DIMENSIONS ARE IN MM UNLESS STATED OTHERWISE		
WEIGHT: LB		AS INDEXED		
		DRAWN BY/DATE	CHECKED/DATE	APPROVAL/DATE
		SBA 09JAN18	TRA 09JAN18	CDW 09JAN18
		SHEET No.	2 OF 2	REV. No. A

# TOT SWING SEAT

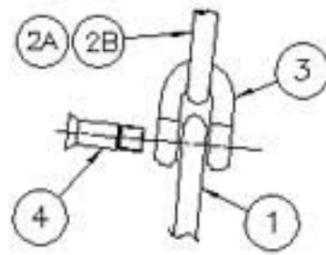
200302389

1800038B

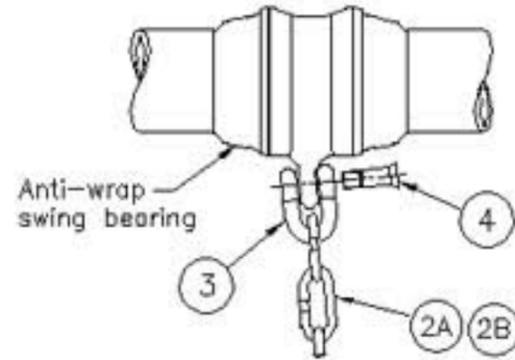
Sheet 1 of 1

AUTHORIZED BY: 14APR14

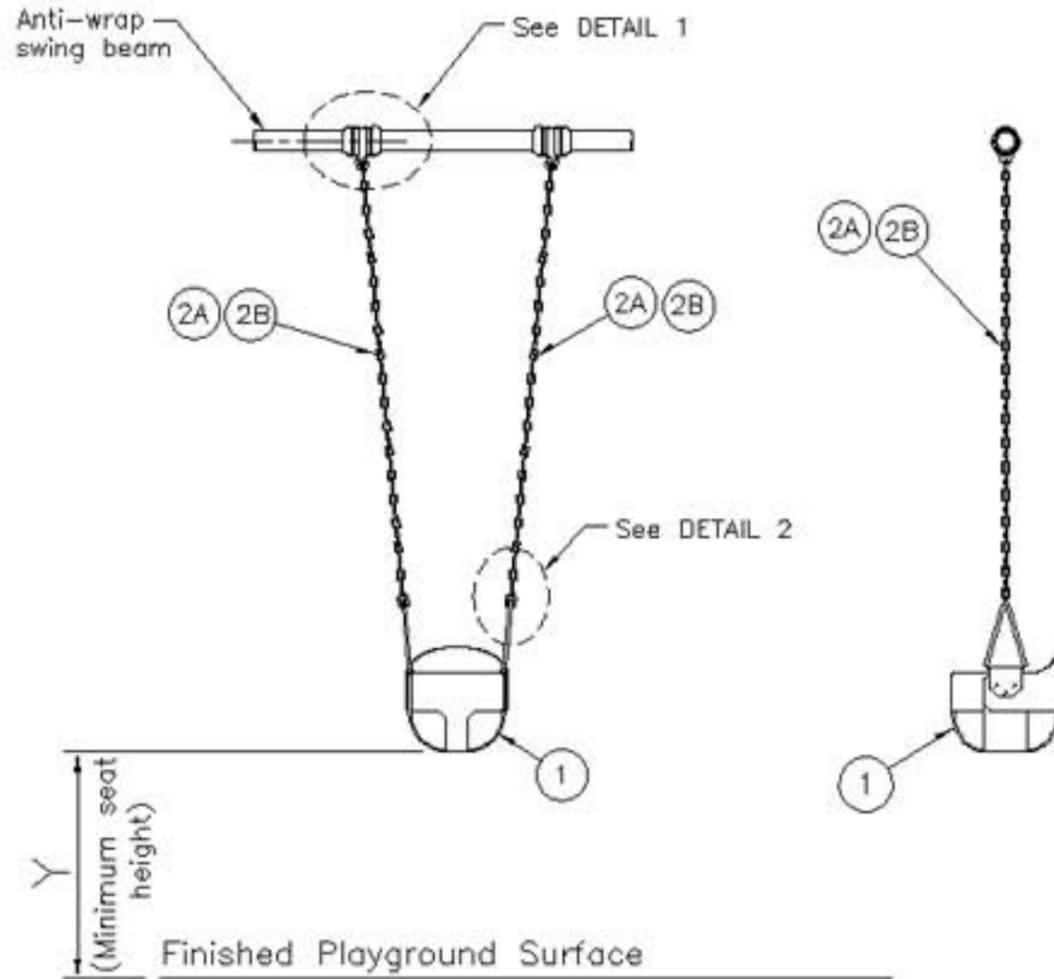
*Alpha*



**DETAIL 2**  
Typ 2 Places



**DETAIL 1**  
Typ 2 Places



**NOTE:**

1. MINIMUM SEAT HEIGHT TO BE 24 INCHES

TOT SWING SEAT (8FT) 200202836  
TOT SWING SEAT (10FT) 200202834

Item	Code	Description	Qty.
1	-	TOT SEAT	1
2A	200187283	CHAIN 8FT	1
2B	200187284	CHAIN 10FT	1
3	200035993	SHACKLE "D" STYLE 41 MM 300 S.S.(SMALL)	4
4	200035994	BOLT M10 X 1.5 X 27 MM 300 SS 6-LOBE(SM)	4

**Application**

- For age groups 2-12 years.

**Maintenance**

- Check all hardware
- Touch up any marred paint surface
- Refer to maintenance kit.
- Check chain and seat for wear

**Specifications**

**CHAINS**

MATERIAL: 4/0 chain link hot dipped galvanized

**TOT SEAT**

MATERIAL: Tot Swing Seats shall be heavy duty construction, fabricated from black rubber with a tempered steel insert molded inside, rendering them slashproof. Tot seat shall be fully enclosed to prevent slipping out and provide lower back support. Two sizes of leg cutouts make this seat versatile enough to accommodate larger children with special needs also.

**Installation Instructions**

1. Attach chains to beam as shown in DETAIL 1.
2. Determine seat height and trim chains accordingly.
3. Attach swing seat to chains as shown in DETAIL 2.

**NOTES:**

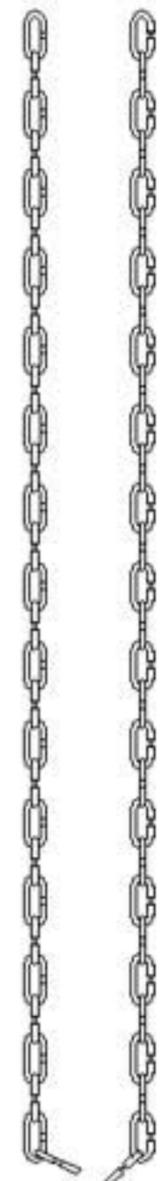
1. See separate instruction for swing frame installation.

1



2A

2B



# BELT SWING SEAT

BELT SWING SEAT (8FT) 200202835  
BELT SWING SEAT (10FT) 200202832

AUTHORIZED BY: 14APR14

*Appl. base*

Item	Code	Description	Qty.
1	-	BELT SEAT PART	1
2A	200187286	CHAIN (8ft)	1
2B	200187287	CHAIN (10ft)	1
3	200035993	SHACKLE "D" STYLE 41 MM 300 S.S.(SMALL)	4
4	200035994	BOLT M10 X 1.5 X 27 MM 300 SS 6-LOBE(SM)	4

**Application**

- For age groups 2-12 years.

**Maintenance**

- Check all hardware
- Touch up any marred paint surface
- Refer to maintenance kit.
- Check chain and seat for wear

**Specifications**

CHAINS

MATERIAL: 4/0 chain link hot dipped galvanized

BELT SEAT

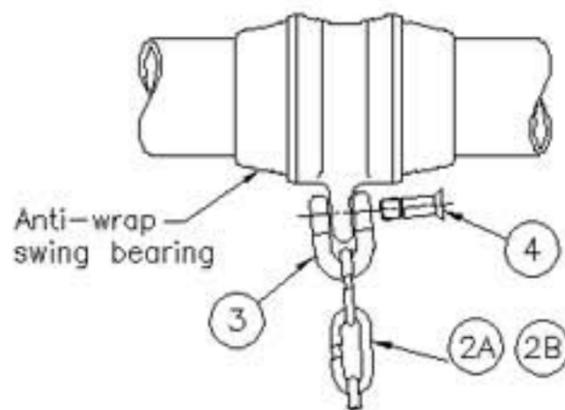
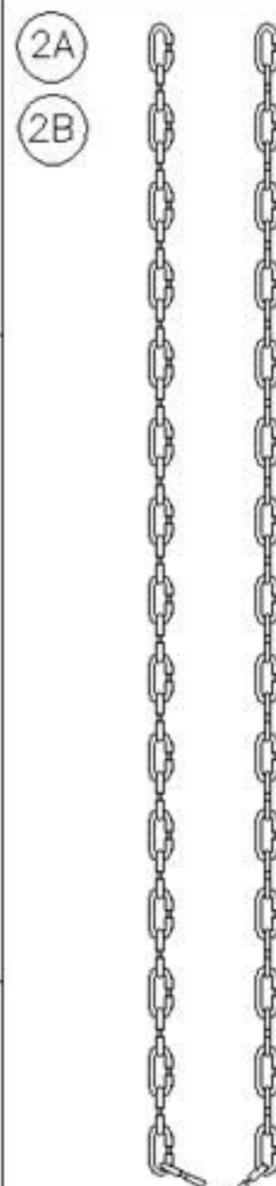
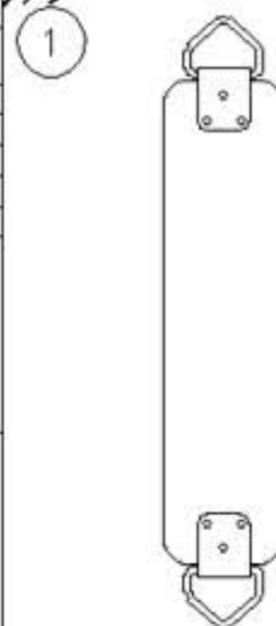
MATERIAL: Rubber with a tempered steel insert molded inside

**Installation Instructions**

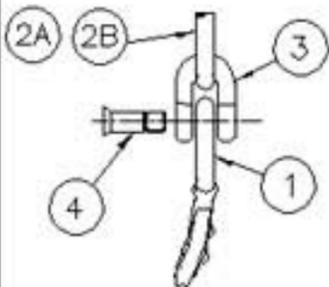
1. Attach chains to beam as shown in DETAIL 1.
2. Determine seat height and trim chains accordingly.
3. Attach swing seat to chains as shown in DETAIL 2.

**NOTES:**

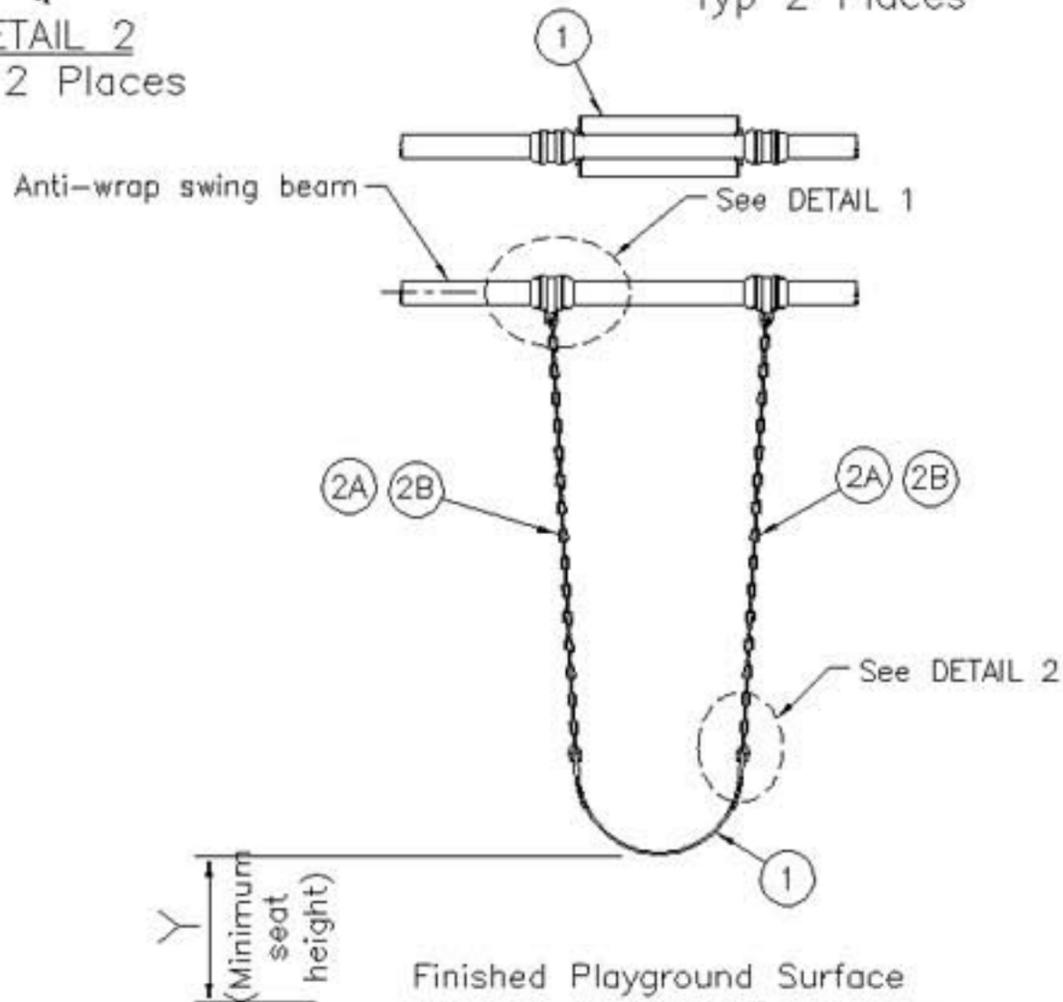
1. See separate instruction for swing frame installation.



DETAIL 1  
Typ 2 Places



DETAIL 2  
Typ 2 Places



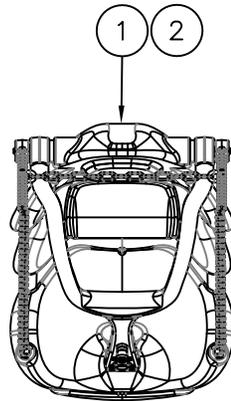
**NOTE:**

1. MINIMUM SEAT HEIGHT TO BE 12 INCHES

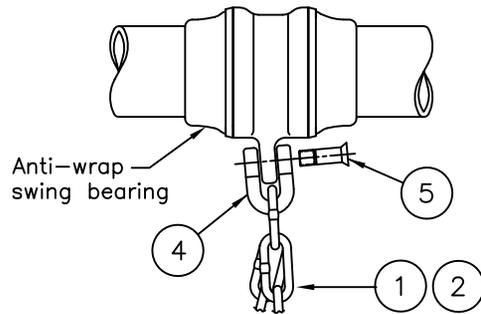
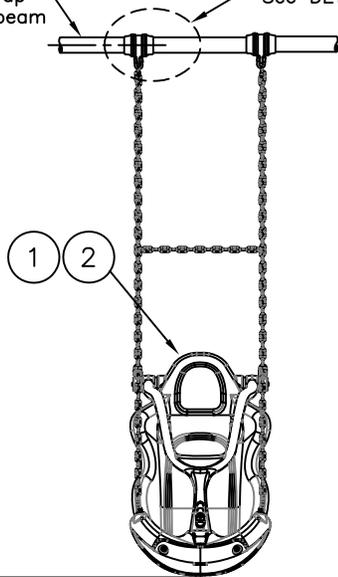
# INCLUSIVE SWING SEAT

1800042C

Sheet 1 of 1



Anti-wrap swing beam      See DETAIL 1



DETAIL 1  
Typ 2 Places

**INCLUSIVE SWING SEAT – 8FT    200203433**  
**INCLUSIVE SWING SEAT – 10FT    200203434**

Item	Code	Description	Qty.
1	906485P	ASSY INCLUSIVE SWING SEAT WITH CHAIN 8 FT	1
2	903696P	ASSY INCLUSIVE SWING SEAT W/CHAIN 10 FT	1
3	HW147909-1	HRDW PKG INCL SWING SEAT S1/1	1

**HRDW PKG INCL SWING SEAT S1/1**  
**HW147909-1**

Item	Code	Description	Qty.
4	200035993	SHACKLE "D" STYLE 41 MM 300 S.S.(SMALL)	2
5	200035994	BOLT M10 X 1.5 X 27 MM 300 SS 6-LOBE(SM)	2
6	200001167	T-45 TAMPER PROOF KEY (TORX WRENCH)	1

**Application**

- For age group 5–12 years.

**Maintenance**

- Check all hardware
- Touch up any marred paint surface
- Refer to maintenance kit
- Check chain and seat for wear

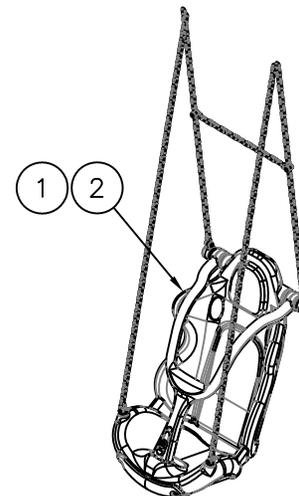
**Installation Instructions**

1. Attach chains to beam as shown in DETAIL 1.
2. Determine seat height and trim chains accordingly.

**NOTES:**

1. See separate instruction for swing frame installation.

AUTHORIZED BY:  
Mellisa Holliday    13OCT17



NOTE:

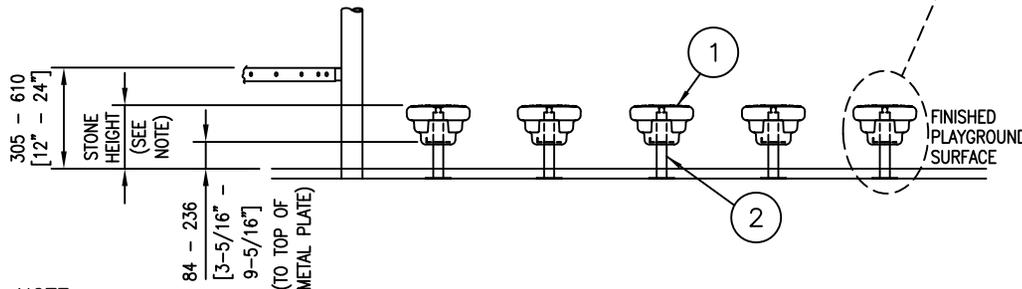
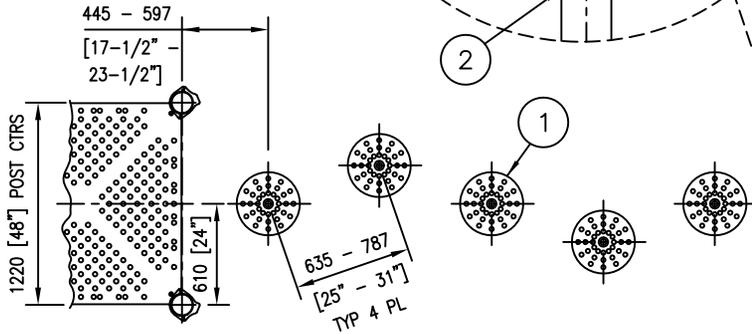
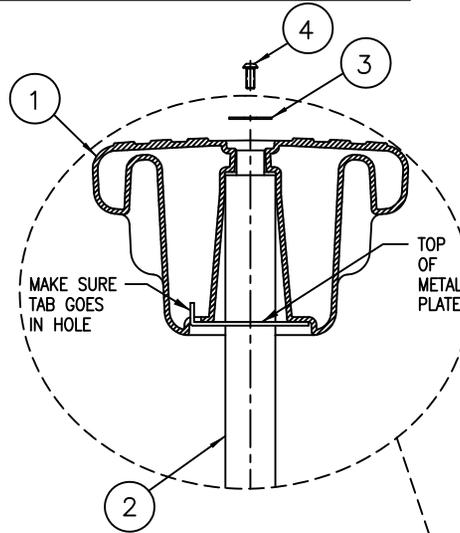
1. MINIMUM SEAT HEIGHT TO BE 12 INCHES



# STEPPING STONES

**NOTE:**

FIRST STEPPING STONE TO BE INSTALLED ON CENTERLINE OF DECK. ADDITIONAL STONES CAN BE INSTALLED AT DESIRED ANGLE. (REFER TO PLAYGROUND LAYOUT DRAWINGS FOR APPLICABLE DIMENSIONS).



**NOTE:**  
 THE STANDARD HEIGHT IS 381mm [15"] ABOVE FINISHED GROUND SURFACE  
 HEIGHT CAN VARY FROM 305mm [12"] - 457mm [18"]  
 (INGROUND FOOTING WILL BE ADJUSTED TO ACCOMMODATE)

# STEPPING STONES

200092701  
 KB500007D  
 SHEET 1 OF 1

AUTHORIZED BY: TRACY ARCHER  
 02MAY17

## STEPPING STONES 200092591

Item	Code	Description	Qty.*
1	-	PLASTIC STONE	1*
2	-	POST F/STONE PODS (INGROUND OR SURFACE MT.)	1*

## HDWR BAG F/SINGLE STEPPING STONE 200093810

Item	Code	Description	Qty.*
3	117988	WASHER FLAT 1/2 X 2 X .125 SS	1*
4	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25mm	1*

\* ITEMS WILL VARY PER SALES ORDER.

### Application

- INSTALL OFF OF A 305mm - 610mm [12" - 24"] DECK ONLY.

### Maintenance

- ROUTINELY CHECK ALL HARDWARE.  
 - INSPECT ALL PAINTED SURFACING FOR DAMAGE.

### Installation Instructions

1. DIG FOOTINGS OR PREPARE SITE FOR SURFACE MOUNTING IF NECESSARY.
2. PLUMB POSTS F/STONE PODS AND SECURE THE POSTS TO THE FOOTING. FOR INGROUND INSTALLATION, POUR CONCRETE FOOTINGS.
3. ATTACH STONES TO POSTS AS SHOWN IN DETAIL.
4. INSTALL RESILIENT GROUND SURFACING.

### Specifications

#### ANCHORS

MATERIAL: RDTB I/LG 60.3 [2-3/8"] X 3.0 [1/8"] TUBING.  
 COLOR: AS SELECTED FROM STD. COLOR RANGE.  
 FINISH: ELECTROSTATICALLY APPLIED DRY POWDER POLYESTER PAINT.

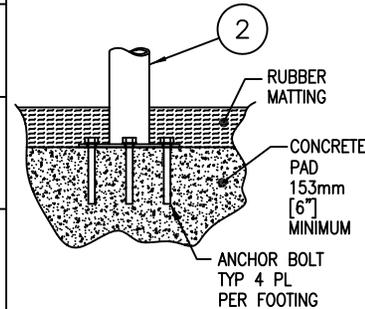
#### STEPS

MATERIAL: ROTATIONALLY MOLDED LINEAR LOW DENSITY POLYETHYLENE.  
 COLOR: AS SELECTED FROM STD. COLOR RANGE.  
 FINISH: NONE.

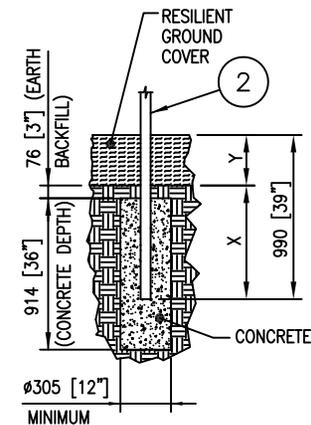
#### FASTENERS

FINISH: STAINLESS STEEL (METRIC).

#### Surface Mount Footing Detail



#### Inground Footing Detail



X PLUS Y = 990mm

MODEL # 200201361

GENERAL INFORMATION

ORDER OF ASSEMBLY:

- 1) Always read all instruction pages before starting the installation of your new NRG BUILDER structure.
- 2) Locate and identify all components then arrange them so that each event has its component parts in the same place.
- 3) Accurately mark the locations of the post footings with wooden stakes. (See Footing Layout) This is your opportunity to check the orientation of the layout at your site and to make sure there is adequate area around the structure(s) for a "Fall Zone". DO NOT CONCRETE INGROUND POSTS UNTIL THE ENTIRE STRUCTURE IS ASSEMBLED.
- 4) Make sure your site is level and has been cleared of all debris, tree roots, or rocks.
- 5) Dig footing holes. See footing details. Use the post footing details on sheet 3 at the locations where the 5" (127mm) posts (arches) touch the ground. All other locations require the play event footing as shown on sheet 4.
- 6) Place the posts at or in the footing locations, depending on your footing type. (All posts are different so refer to the post layout for the proper locations and orientations of the posts.)
- 7) Assemble two of the arches to the "T" connector 180° from each other, then stand upright and attach third arch.
- 8) Make sure all cap covers are secure and all hardware is tight.

IMPORTANT:

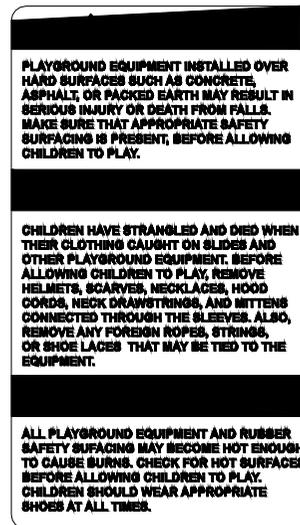
All Little Tikes Commercial Play Systems play events have been designed and engineered to meet all safety guidelines, but if installed improperly, problems may occur: such as protruding hardware, entrapment gaps between 89mm [3-1/2"] to 229mm [9"], or string entanglements. Any accessible bolt ends that protrude beyond the face of the nut more than two threads should be trimmed off and peened by the installer. Once your installation is complete, always inspect your work and the manufacturer's instructions. Material Safety Data Sheets (MSDS) are available upon request. Call Customer Service at 1(800)325-8828 for copies.

AUTHORIZED BY: 26SEPT11

*Chris M. [Signature]*

LABELS:

Safety Labels have been provided by Little Tikes Commercial Play Systems Inc. for the purpose of informing the user of the potential safety risk involved if a fall onto a hard surface occurs. It is important when installing your playground equipment to display this label in a prominent location on each structure.



← The label should be placed such that it will:

- 1) be readily visible to the intended viewer.
- 2) alert the viewer to the potential hazard in time to take appropriate action.

Surfacing labels have been provided to assist with the installation of your ground cover. After installing your ground cover, these labels should be placed on posts by the installer. Attach a label to a post so that the line is level with the ground cover as erosion or compaction of the surfacing occurs, the line will be visible. This will indicate that it is time to add material to your surfacing. If the surfacing is worn away, it greatly reduces its effectiveness.



# NRG ARCH POST INGROUND FOOTING DETAIL

200175506  
NRG40003C-S3  
Sheet 3 of 9

AUTHORIZED BY: 26SEPT11

*Chris M. Newberry*

1. Complete the Calculation Sheet below (FILL IN BLOCKS A THRU E).
2. Footing size may vary due to local soil and weather conditions.
3. Base of footing must be below frost line.

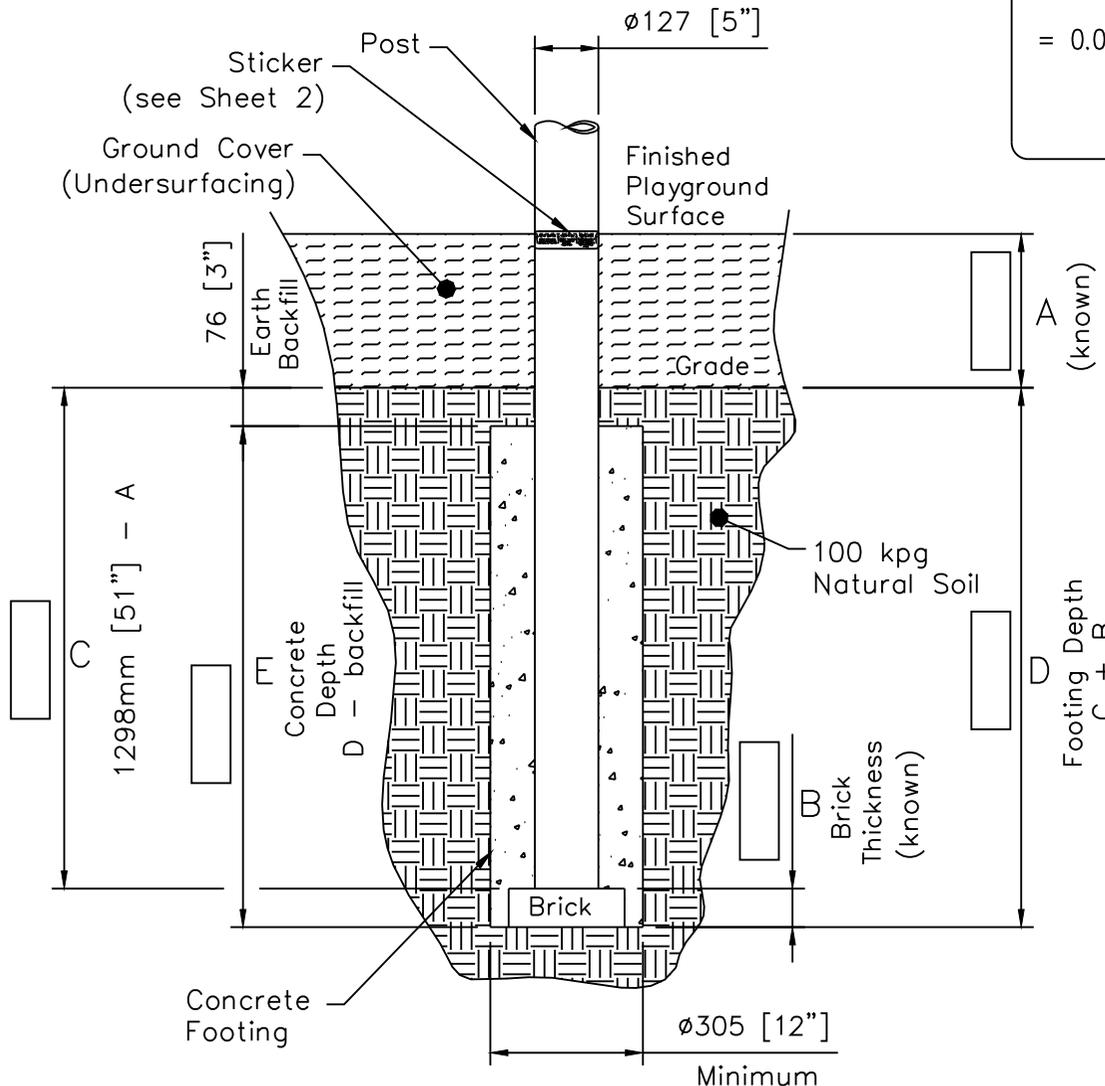
### HOW MUCH CONCRETE?

VOLUME OF CONCRETE REQUIRED FOR FOOTINGS:

$$= 0.067 \text{ M}^3 \times \left\{ \frac{\text{CONCRETE DEPTH (mm)}}{1220} \right\} \text{No. OF FOOTING HOLES} = \text{M}^3$$

$$= 0.087 \text{ Yard}^3 \times \left\{ \frac{\text{CONCRETE DEPTH (IN)}}{48} \right\} \text{No. OF FOOTING HOLES} = \text{Yard}^3$$

NOTES: - TO CALCULATE CUBIC FEET, MULTIPLY CUBIC YARD BY 27  
- 94 lbs OF CONCRETE = 1 CUBIC FOOT.



- A. GROUND COVER DEPTH {KNOWN}.
- B. BRICK THICKNESS {KNOWN}.
- C. 1298mm [51"] - A  
BECAUSE A + C SHOULD ALWAYS EQUAL  
1298mm [51"]
- D. FOOTING DEPTH = C + BRICK THICKNESS.  
\*MINIMUM 305mm [12"] + BRICK THICKNESS  
FOOTING DEPTH REQUIRED
- E. CONCRETE DEPTH = FOOTING DEPTH (D) -  
76mm [3"] (BACKFILL).

# NRG PLAYEVENT FOOTING DETAIL

200175506  
NRG40003C-S4  
Sheet 4 of 9

AUTHORIZED BY: 26SEPT11

*Chris M. Newberry*

1. Complete the Calculation Sheet below (FILL IN BLOCKS A THRU E).
2. Footing size may vary due to local soil and weather conditions.
3. Base of footing must be below frost line.

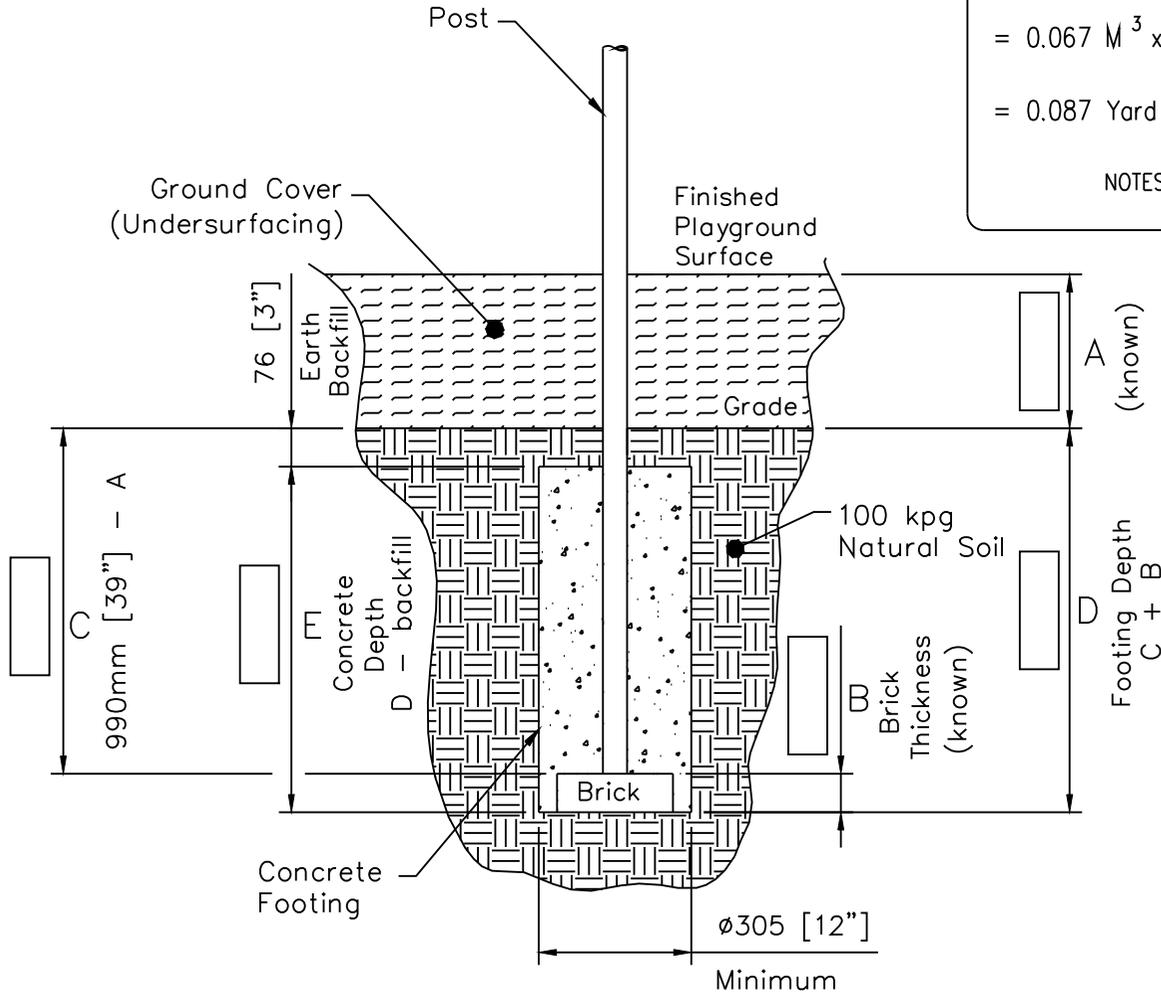
### HOW MUCH CONCRETE?

VOLUME OF CONCRETE REQUIRED FOR FOOTINGS:

$$= 0.067 \text{ M}^3 \times \left\{ \frac{\text{CONCRETE DEPTH (mm)}}{915} \right\} \text{No. OF FOOTING HOLES} = \text{M}^3$$

$$= 0.087 \text{ Yard}^3 \times \left\{ \frac{\text{CONCRETE DEPTH (IN)}}{36} \right\} \text{No. OF FOOTING HOLES} = \text{Yard}^3$$

NOTES: - TO CALCULATE CUBIC FEET, MULTIPLY CUBIC YARD BY 27  
- 94 lbs OF CONCRETE = 1 CUBIC FOOT.



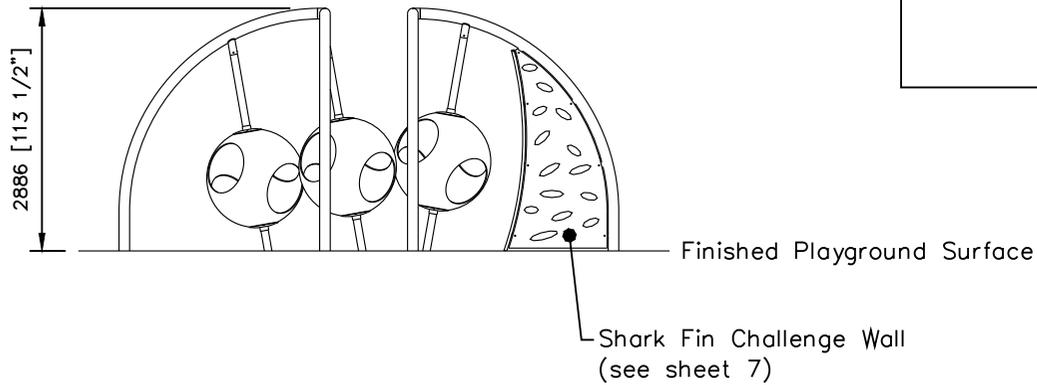
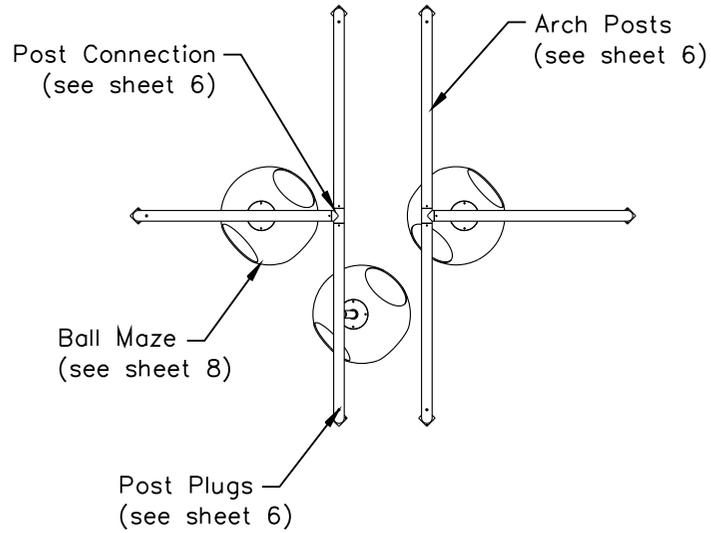
- A. GROUND COVER DEPTH {KNOWN}.
- B. BRICK THICKNESS {KNOWN}.
- C. 990mm [39"] - A  
BECAUSE A + C SHOULD ALWAYS EQUAL 990mm [39"]
- D. FOOTING DEPTH = C + BRICK THICKNESS.  
\*MINIMUM 305mm [12"] + BRICK THICKNESS  
FOOTING DEPTH REQUIRED
- E. CONCRETE DEPTH = FOOTING DEPTH (D) - 76mm [3"] (BACKFILL).

# NRG PLAN & SIDE VIEW; FOOTING LAYOUT

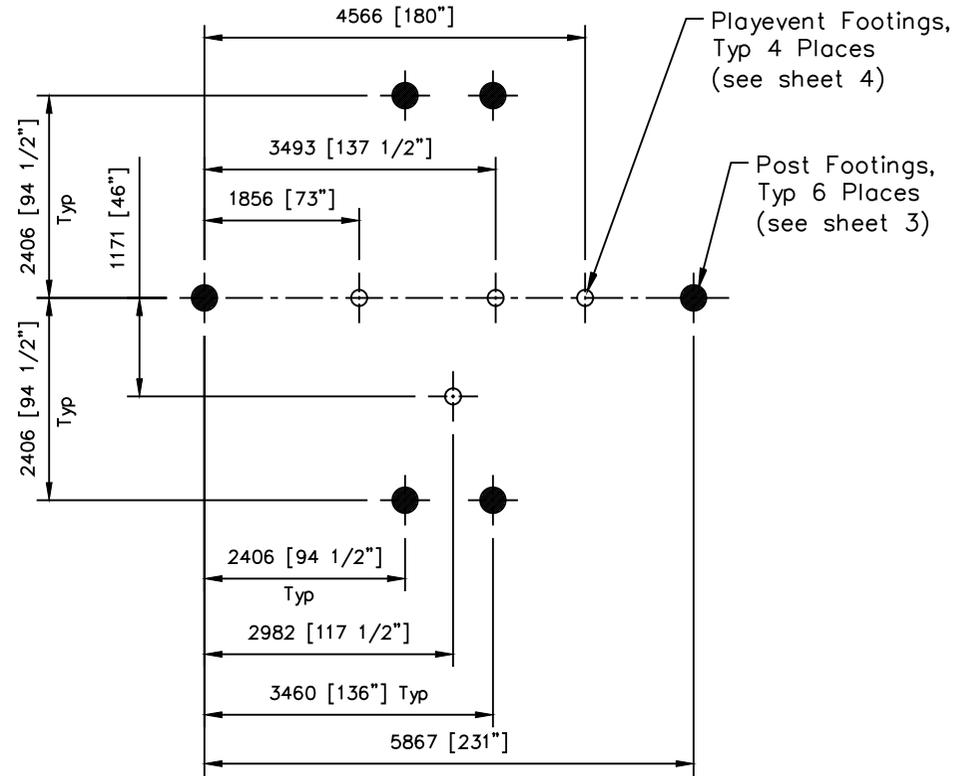
200175506  
NRG40003C-S5  
Sheet 5 of 9

AUTHORIZED BY: 26SEPT11  
*Chris M. Henderson*

## PLAN & SIDE VIEWS



## FOOTING LAYOUT

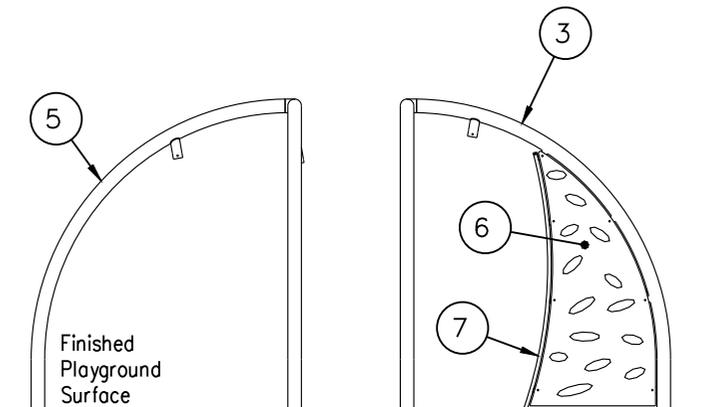
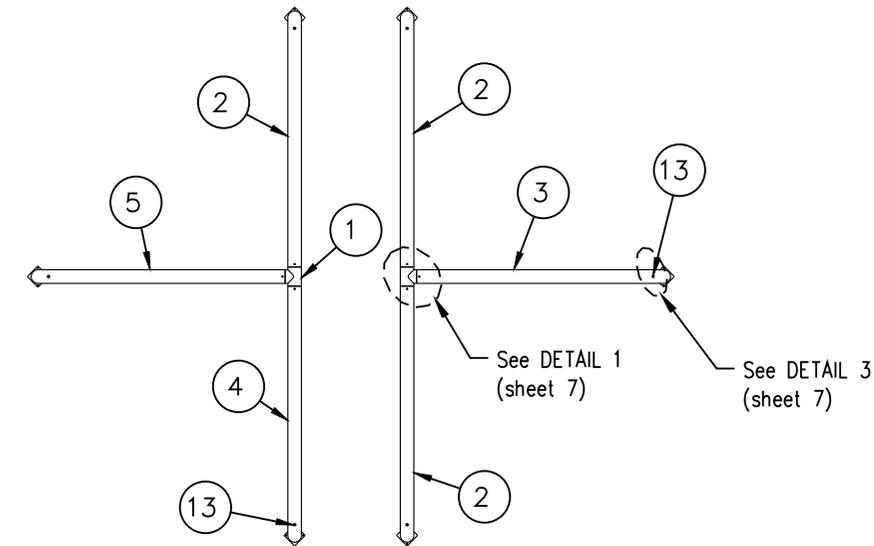


# NRG POSTS & SHARK FIN CHALLENGE WALL

200175506  
NRG40003C-S6  
Sheet 6 of 9

AUTHORIZED BY: 26SEPT11

*Chris M. [Signature]*



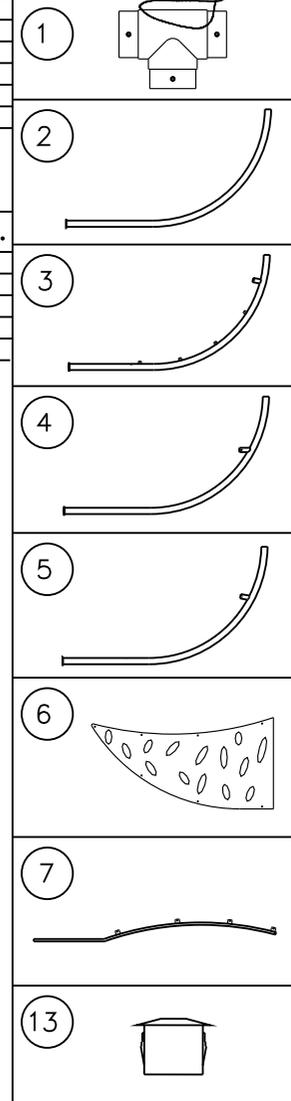
Item	Code	Description	Qty.
1	-	CONNECTOR "T" F/HUB	2
2	-	ARCH HALF F/HUB BLANK	3
3	-	AR HALF #14 F/HUB W/BALL 1 & SHARK	1
4	-	ARCH HALF #16 F/HUB W/BALL 2	1
5	-	ARCH HALF #17 F/HUB W/BALL 3	1
6	-	SHARK FIN CHALLENGE WALL	1
7	-	SUPPORT F/SHARK FIN CHAL	1

**HDWR BAG F/NRG HUB/SHARK FIN  
200164410**

Item	Code	Description	Qty.
8	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM	6
9	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	20
11	200097726	SCREW MACH BUTTONHEAD M10 X 1.50 X 38MM	7
12	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	7
13	200002307	PLUG BLK 7/16" X 12 G #2633 (650042000)	6

**Installation Instructions**

1. Prepare footings per layout drawing. **NOTE:** See Sheet 5 for all footing dimensions.
2. Unpackage and lay out all of the arches and T-Connectors to verify the proper components are in the proper positions.
3. Lay two of the "In-line" arches on their sides and connect to a T-Connector (Item 1) as shown in DETAIL 1. Place the bottom of the arches into the footings and stand up into place.
4. Place the perpendicular arch into its footing and connect to the T-Connector.
5. Repeat steps 3 and 4 for the second set of three arches.
6. Locate the Shark Fin Wall (Item 6) and loosely attach to the arch at the lower 3 tabs as shown in DETAIL 2.
7. Loosely attach the Shark Fin Support (Item 7) to the Shark Fin Wall/Arch as shown in DETAIL 2 for the lower 3 connections and DETAIL 4 for the upper connection.
8. Install plugs (item 13) into holes on outside of arches (items 2, 3, 4, 5) as shown DETAIL 3.

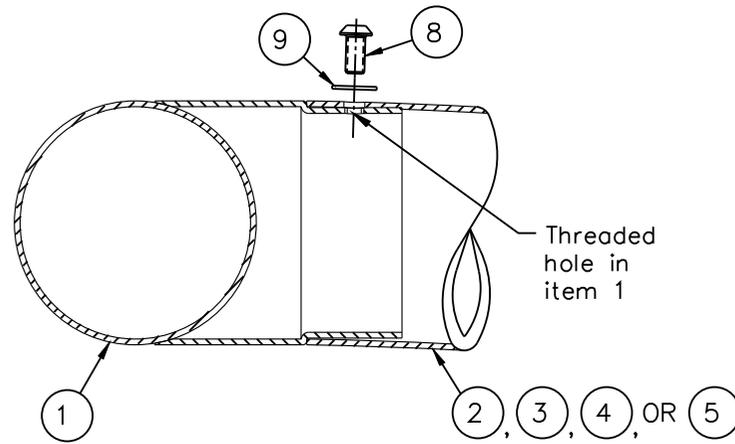


# NRG POST & SHARK FIN CHALLENGE WALL DETAILS

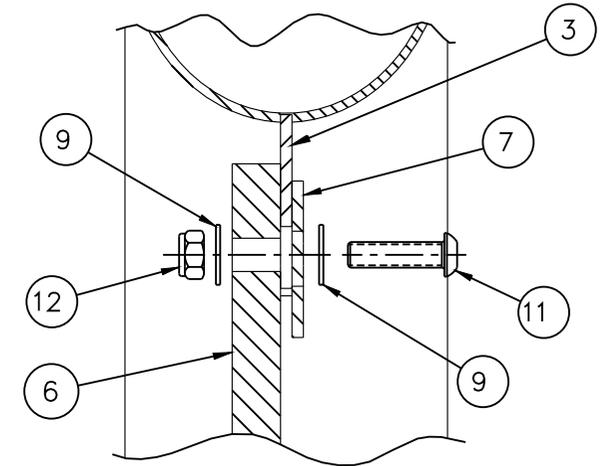
200175506  
NRG40003C-S7  
Sheet 7 of 9

AUTHORIZED BY: 26SEPT11

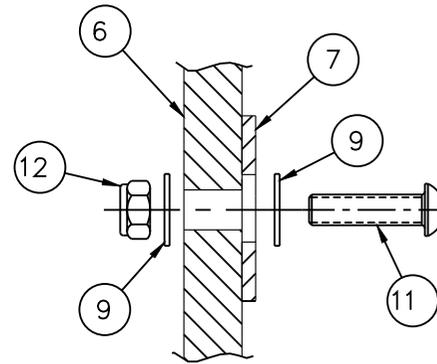
*Chris M. McQuinn*



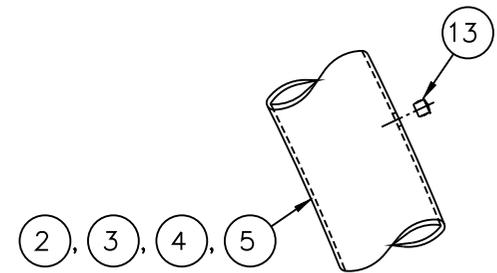
DETAIL 1  
Typ 6 Places



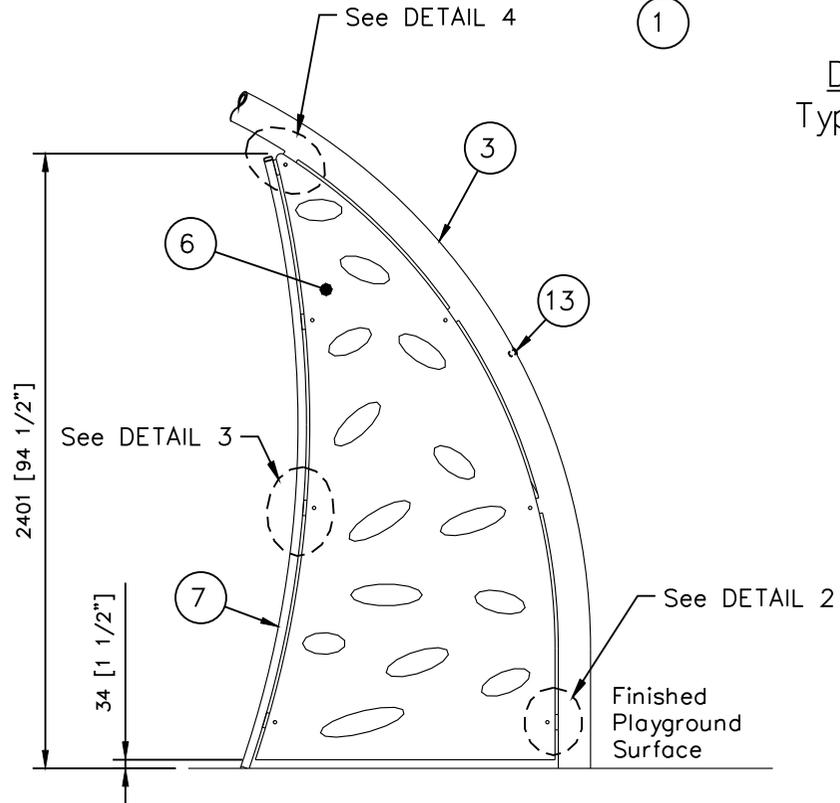
DETAIL 4



DETAIL 2  
Typ 6 Places



DETAIL 3  
Typ 6 Places



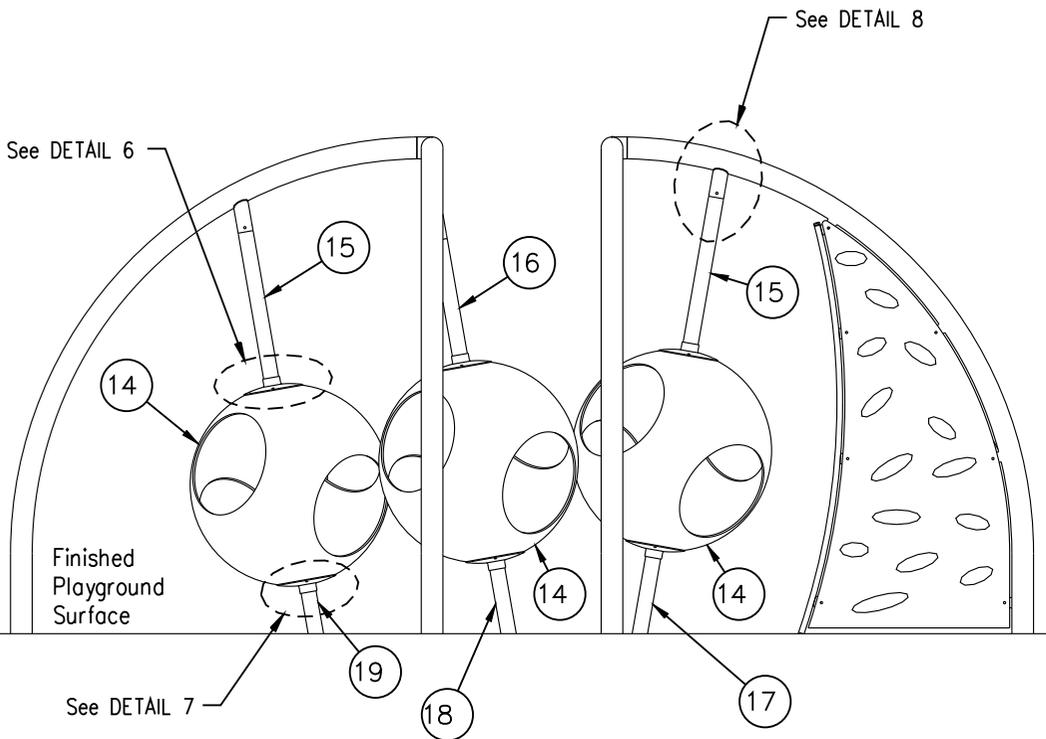
SHARK FIN CHALLENGE WALL

# NRG BALL MAZE

200175506  
NRG40003C-S8  
Sheet 8 of 9

AUTHORIZED BY: 26SEPT11

*Chris M. McManis*



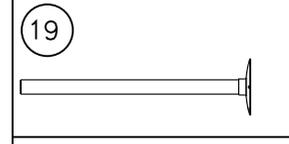
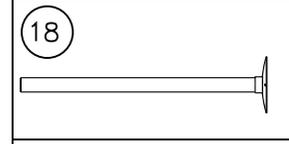
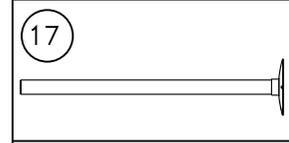
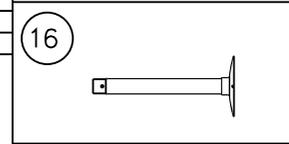
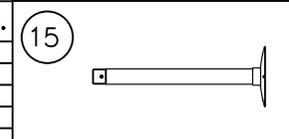
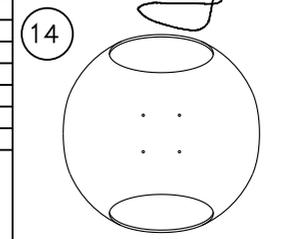
Item	Code	Description	Qty.
14	-	FLOATING BALL	3
15	-	UPPER SUPP F/NRG BALL 1010	2
16	-	UPPER SUPP F/NRG BALL 828	1
17	-	LOWER SUPP F/NRG BALL 1652	1
18	-	LOWER SUPP F/NRG BALL 1549	1
19	-	LOWER SUPP F/NRG BALL 1446	1
20	-	CAP HDWR BASE	12
21	-	CAP HDWR COVER	12

**HDWR BAG F/NRG BALL MAZE  
201644409**

Item	Code	Description	Qty.
9	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	48
10	200002030	SCREW MACH BUTTONHEAD M10 X 1.50 X 30MM	12
11	200097726	SCREW MACH BUTTONHEAD M10 X 1.50 X 38MM	12
12	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	24
22	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30 MM	12
23	200008483	WASHER BOWED M11 23.5 X 11.7 X 1.57 MM	12
24	200142931	ROD THREADED M8 X 75MM	6

**Installation Instructions**

1. Prepare footings.
2. Attach upper supports (items 15 & 16) to post arches as shown in DETAIL 6.
3. Attach the lower supports (items 17, 18, & 19) to the balls as shown in DETAIL 7 by aligning the outer four holes in each lower support flange with the pre-drilled holes in the ball.
4. Place the lower support/ball assemblies into the proper footings, and clock to proper orientation. Align the pre-drilled holes in the top of each ball with the outer four holes in each upper support flange and attach ball to upper support as shown in DETAIL 8.
5. After balls are installed, use the lowest inner hole on each lower support flange to drill one  $\varnothing 6.4\text{mm}$  [1/4"] hole through the plastic for drainage purposes as shown in DETAIL 9.

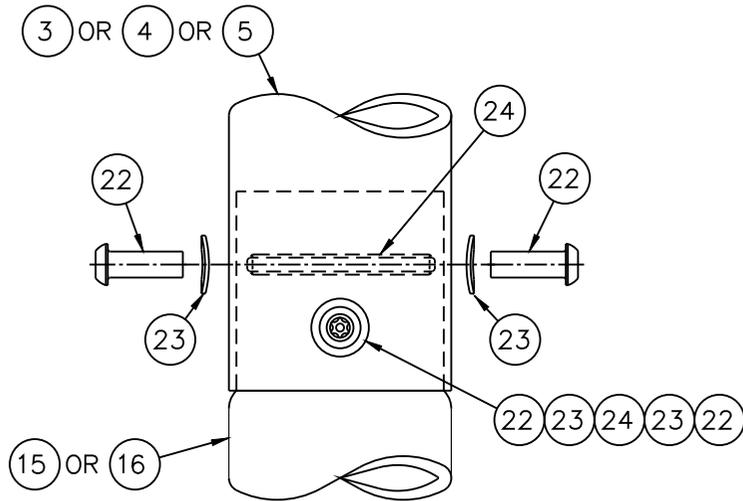


# NRG BALL MAZE DETAILS

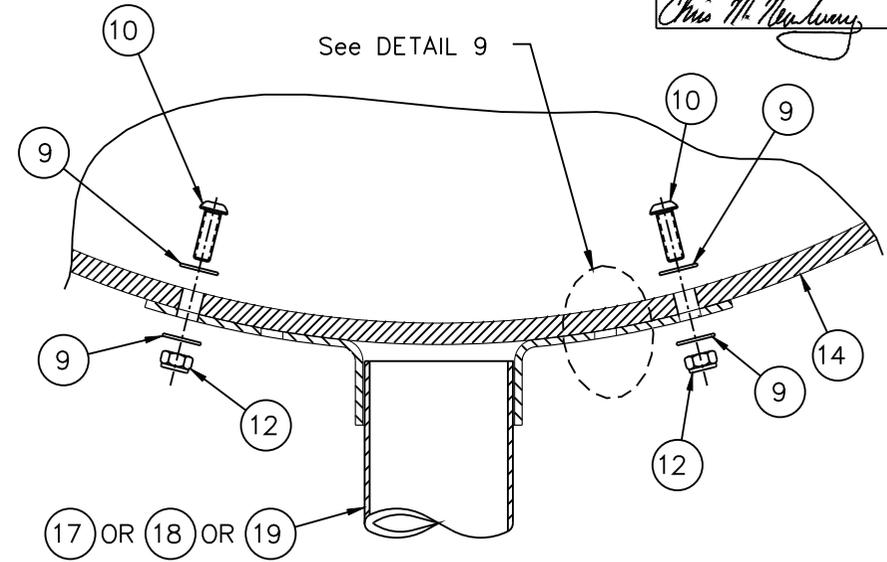
200175506  
NRG40003C-S9  
Sheet 9 of 9

AUTHORIZED BY: 26SEPT11

*Chris M. Anderson*

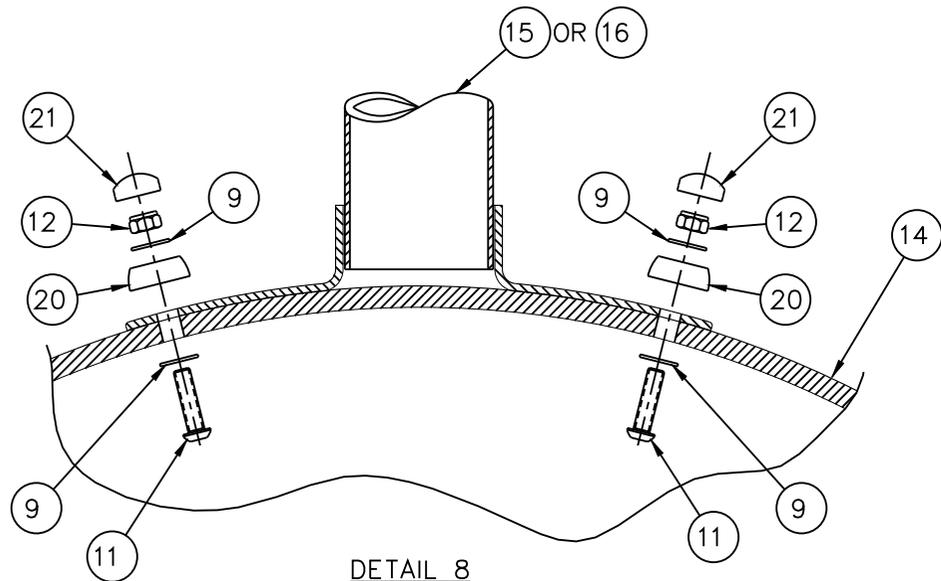


DETAIL 6  
Typ 3 Places

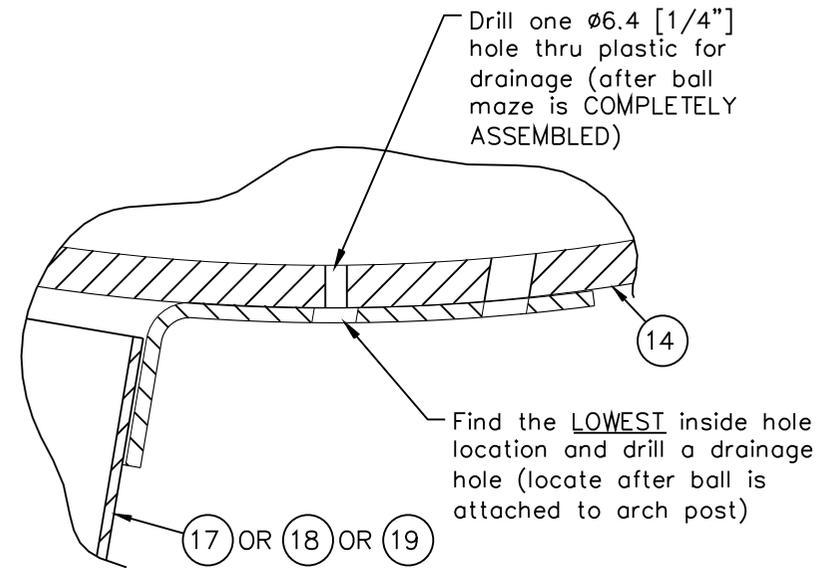


See DETAIL 9

DETAIL 7  
Typ 6 Places



DETAIL 8  
Typ 6 Places



DETAIL 9  
Typ 3 Places

# NRG INFINITY CLIMBER

200175514

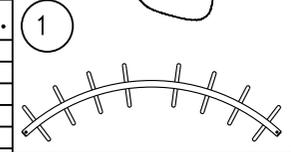
NRG40102C-S1

Sheet 1 of 3

## NRG INFINITY CLIMBER 200201293

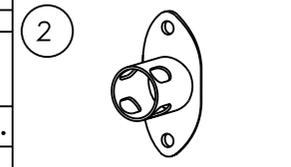
AUTHORIZED BY: 12OCT10  
*Chris M. [Signature]*

Item	Code	Description	Qty.
1	-	BEAM F/INFINITY CLIMBER SUPPORT	1
2	-	CONNECTOR F/NRG BEAMS BOLT ON	2
3	-	SUPPORT F/INFINITY CLIMBER	1
4	-	CLIMBER INFINITY	2
5	-	FOOTING F/INFINITY CLIMBER	2
6	-	CAP HDWR BASE	24
7	-	CAP HDWR COVER	24



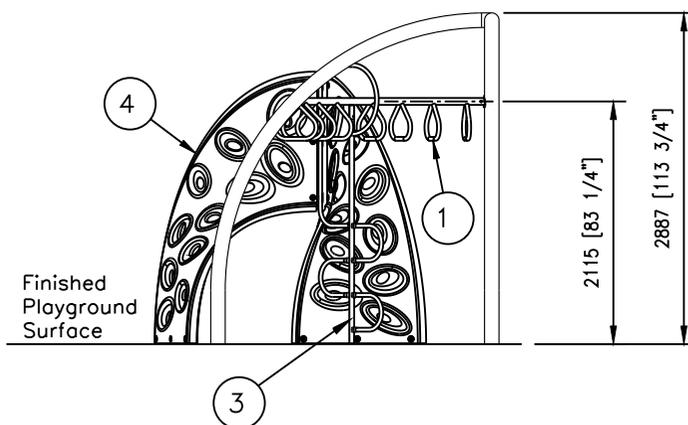
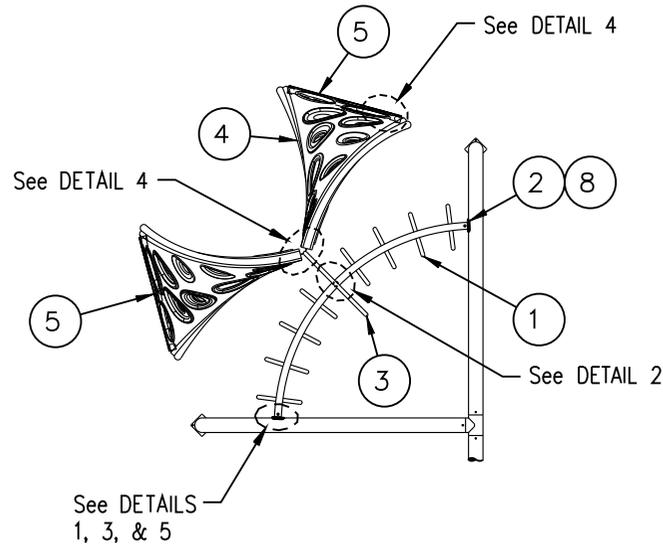
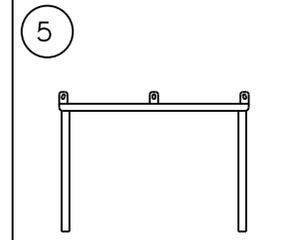
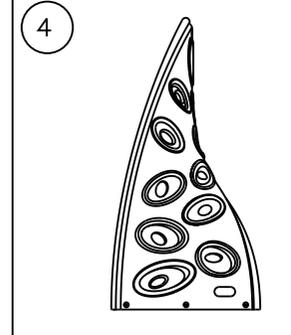
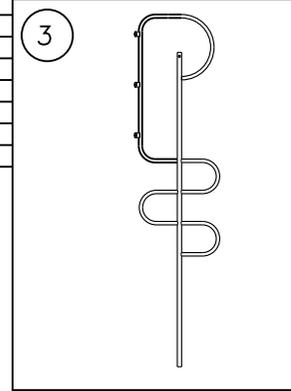
## HDWR BAG F/NRG INFINITY CLIMBER 200169731

Item	Code	Description	Qty.
8	200058373	GASKET F/PB PLATE (LARGE)	2
9	200142930	ROD THREADED M8 X 100MM	4
10	200001826	CAP SCREW HEX HEAD M8 X 1.25 X 75 MM W/PATCH	12
11	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30 MM	23
12	200002138	BOLT M8 X 1.25 MALE 42.5 MM	1
13	200002142	BOLT M8 X 1.25 MALE 57.5 MM	2
14	200002100	WASHER FLAT M11 320D X 13ID X 2MM S.S.	24
15	200008483	WASHER BOWED M11 X 23 X 12 X 1.6 MM	10
16	200002079	WASHER FLAT M11 X 23 X 12 X 1.6 MM	24



### Installation Instructions

1. Prepare footings.
2. Put gaskets (item 8) on Beam Connectors (item 2) as shown in DETAIL 5. Using the two holes in beam connector plate as a template, drill  $\varnothing 11\text{mm}$  [7/16"] holes through the gaskets to allow hardware installation.
3. Attach Beam Connectors (item 2) to Infinity Climber Support Beam (item 1) as shown in DETAIL 1.
4. Attach Infinity Climber Support to middle of beam as shown in DETAIL 2.
5. Place Infinity Climber Support (item 3) in footing and block beam up to correct height. Check that beam is level and support is plumb.
6. Install hardware through Beam Connector (item 2), gasket, and pre-drilled holes in the arch as shown in DETAIL 3.
7. Attach Footing Support (item 5) to bottom end (the end with color Logo) of the Climber (item 4) as shown in DETAIL 4 in three locations. Repeat for the second climber.
8. Position Climbers in footings and attach to Infinity Climber Support as shown in DETAIL 4.
9. Tighten all hardware and install hardware caps.
10. Complete footings and install resilient surfacing.



NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

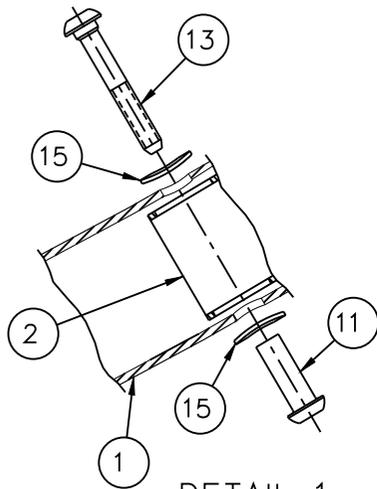
# NRG INFINITY CLIMBER

200175514

NRG40102C-S2

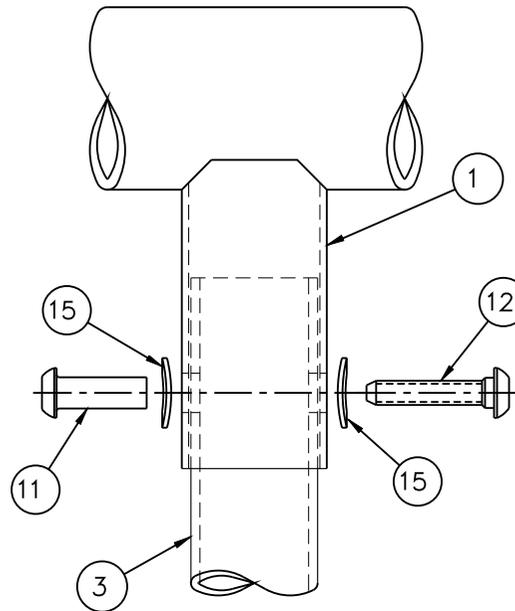
Sheet 2 of 3

AUTHORIZED BY:  
*Chris M. Henderson* 12OCT10

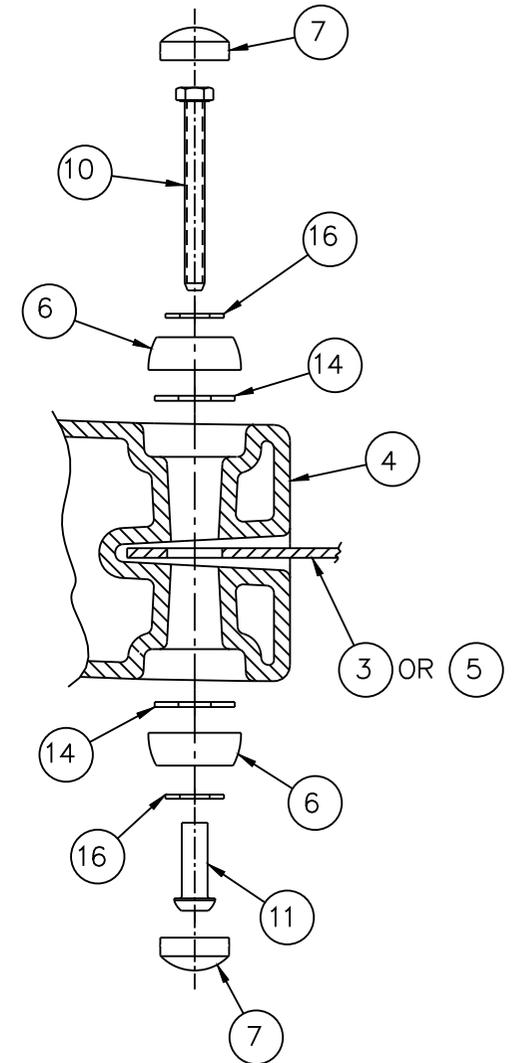


DETAIL 1

Typ 2 Places

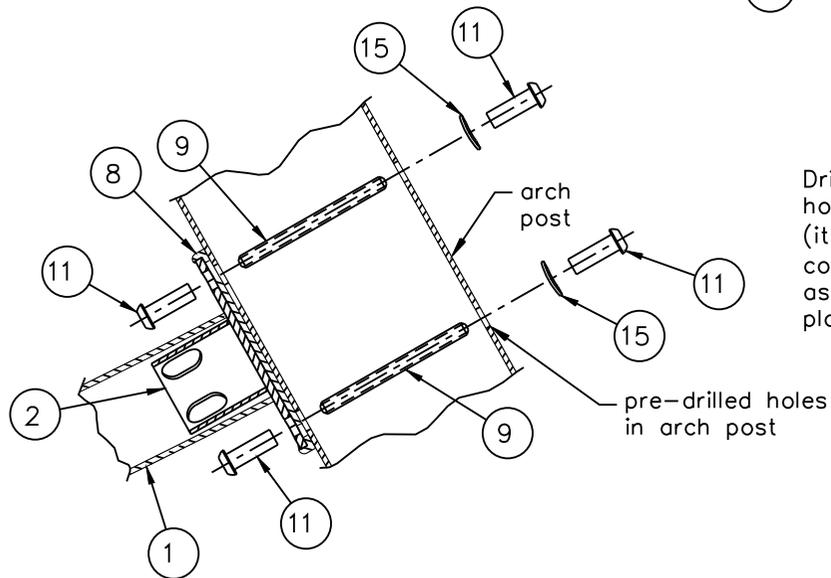


DETAIL 2



DETAIL 4

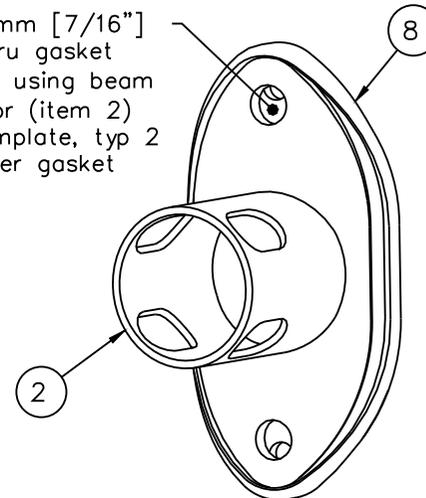
Typ 12 Places



DETAIL 3

Typ 2 Places

Drill  $\varnothing 11\text{mm}$  [7/16"]  
 holes thru gasket  
 (item 8) using beam  
 connector (item 2)  
 as a template, typ 2  
 places per gasket



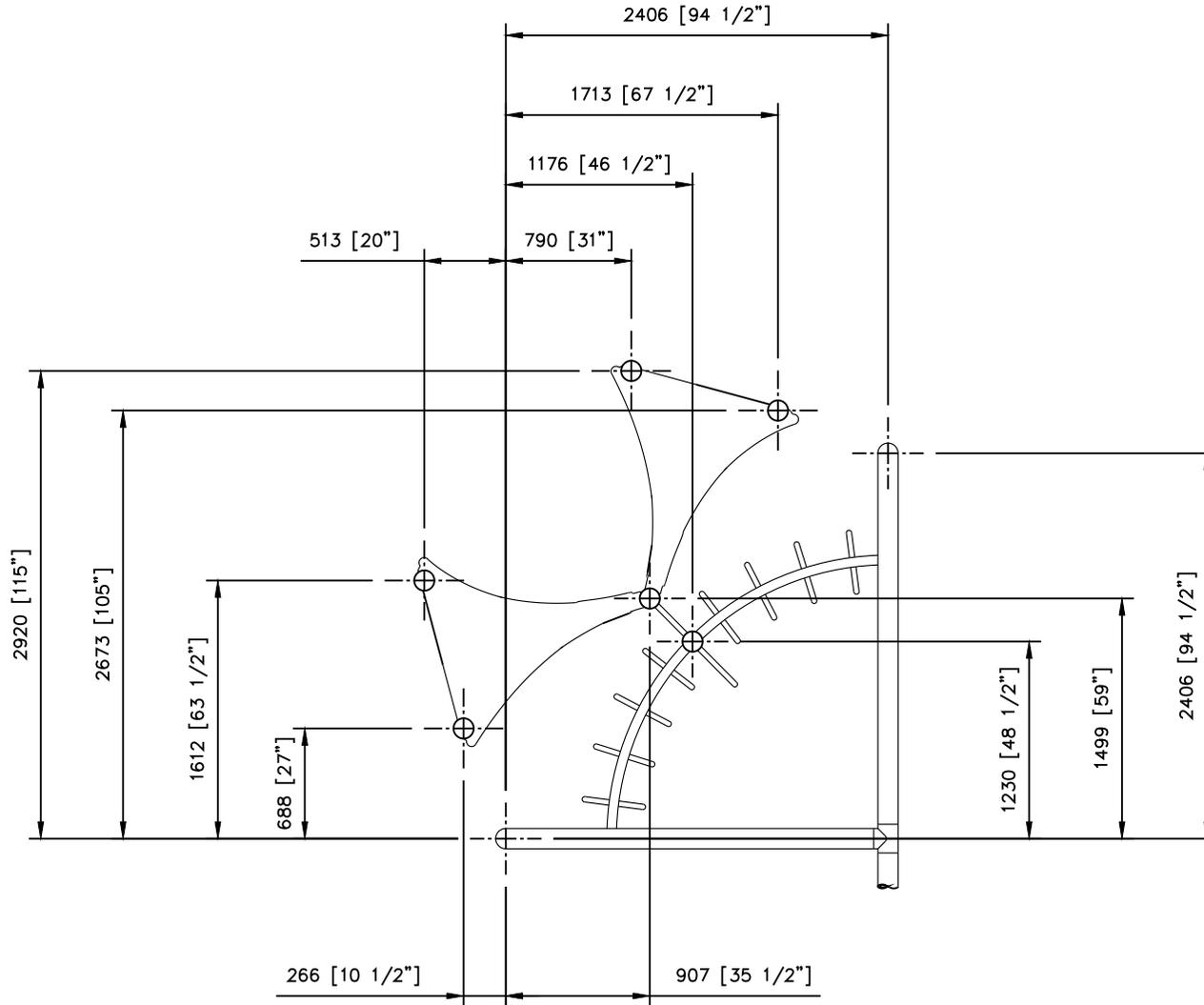
DETAIL 5

# NRG INFINITY CLIMBER

200175514  
NRG40102C-S3  
Sheet 3 of 3

## FOOTING LAYOUT

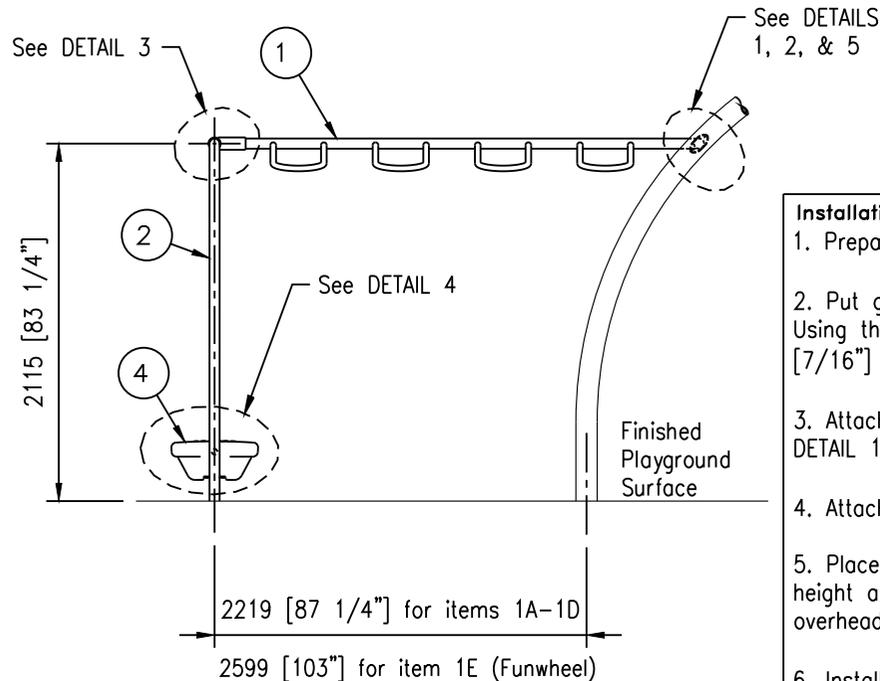
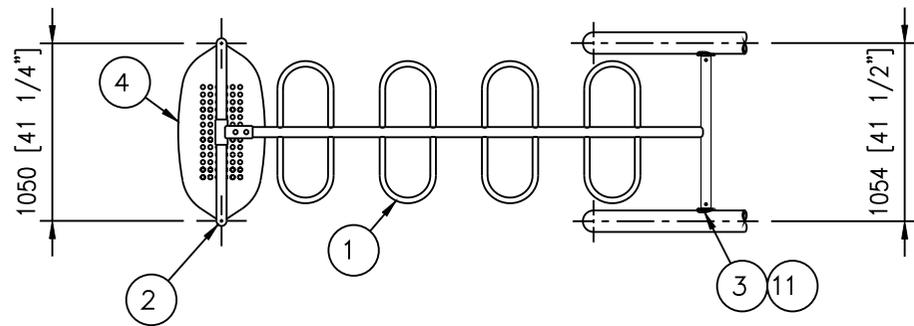
AUTHORIZED BY:  
*Chris M. [Signature]* 12OCT10



# NRG HUB OVERHEADS

200175518  
NRG40106C-S1  
Sheet 1 of 2

AUTHORIZED BY: 12OCT10  
*Chris M. [Signature]*



LOOP CHALLENGE SHOWN

NRG LOOP CHALLENGE	200201284
NRG RING TREK	200201285
NRG RING CHALLENGE	200201286
NRG RUNG OVERHEAD	200201287
NRG FUNWHEEL ASSY	200201289

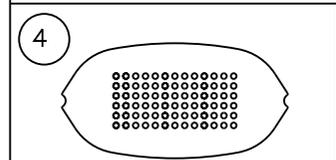
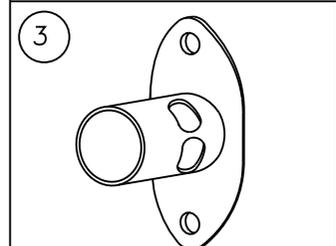
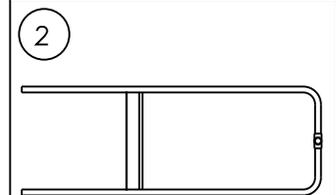
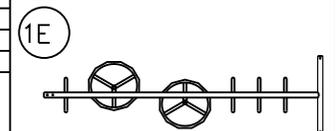
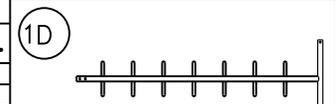
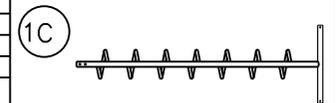
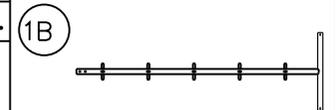
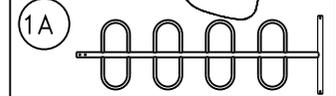
Item	Code	Description	Qty.
1A		LOOP CHALLENGE F/NRG HUB	1
1B		RING TREK F/NRG HUB	
1C	-	RING CHALLENGE F/NRG HUB	
1D		RUNG OVERHEAD F/NRG HUB	
1E		FUNWHEEL ASSY F/NRG HUB	
2	-	OVERHEAD SUPPORT STAND	1
3	-	CONNECTOR FOR HUB BEAM (2-HOLE)	2
4	-	OVERHEAD LANDING DECK	1

## HDWR BAG F/NRG HUB OVERHEADS 200168392

Item	Code	Description	Qty.
5	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30 MM	12
6	200002142	BOLT M8 X 1.25 MALE 57.5 MM	4
7	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	6
8	200002079	WASHER FLAT M11 23 X 12 X 1.6	6
9	200008483	WASHER BOWED M 11 X 23.5 X 11.7 X 1.57 MM	12
10	200142930	ROD THREADED M8 X 100MM	4
11	200058373	GASKET F/PB PLATE (LARGE)	2

### Installation Instructions

1. Prepare footings.
2. Put gaskets (item 11) on Beam Connectors (item 3) as shown in DETAIL 5. Using the two holes in beam connector plate as a template, drill  $\phi 11\text{mm}$  [ $7/16$ "] holes through the gaskets to allow hardware installation.
3. Attach Beam Connectors (item 3) to Overhead (item 1) as shown in DETAIL 1.
4. Attach Overhead (item 1) to Overhead Support Stand as shown in DETAIL 3.
5. Place Overhead Support Stand in footings and block Overhead up to proper height as shown in main view. Check that the stand is plumb and the overhead is level.
6. Install hardware through Beam Connector (item 3), gasket, and pre-drilled holes in arch as shown in DETAIL 2. Check that the overhead is level.
7. Attach Landing Deck (item 4) to Overhead Support Stand as shown in DETAIL 4.
8. Tighten all hardware.
9. Complete footings and install resilient surfacing.



NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

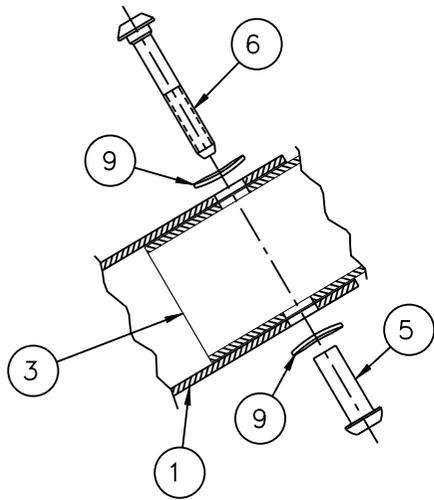
# NRG HUB OVERHEADS

200175518

NRG40106C-S2

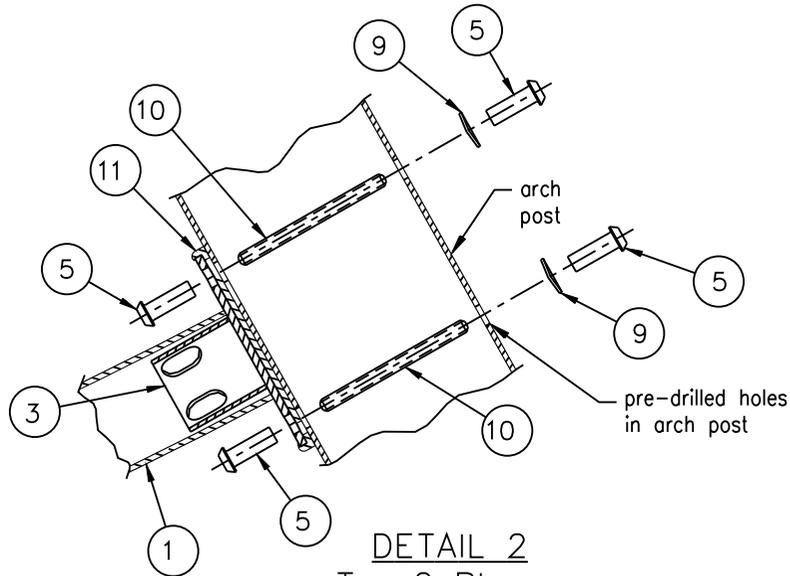
Sheet 2 of 2

AUTHORIZED BY:  
*Chris M. Anderson* 12OCT10



DETAIL 1

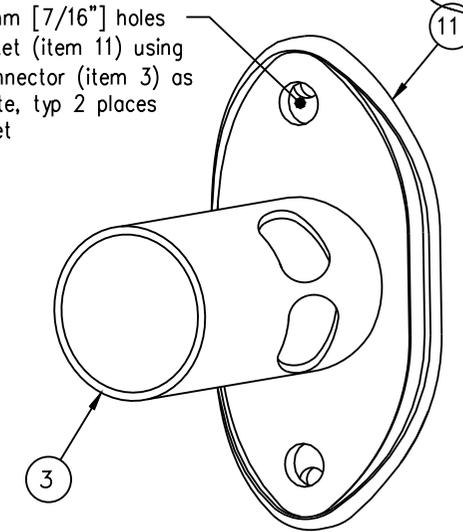
Typ 2 Places



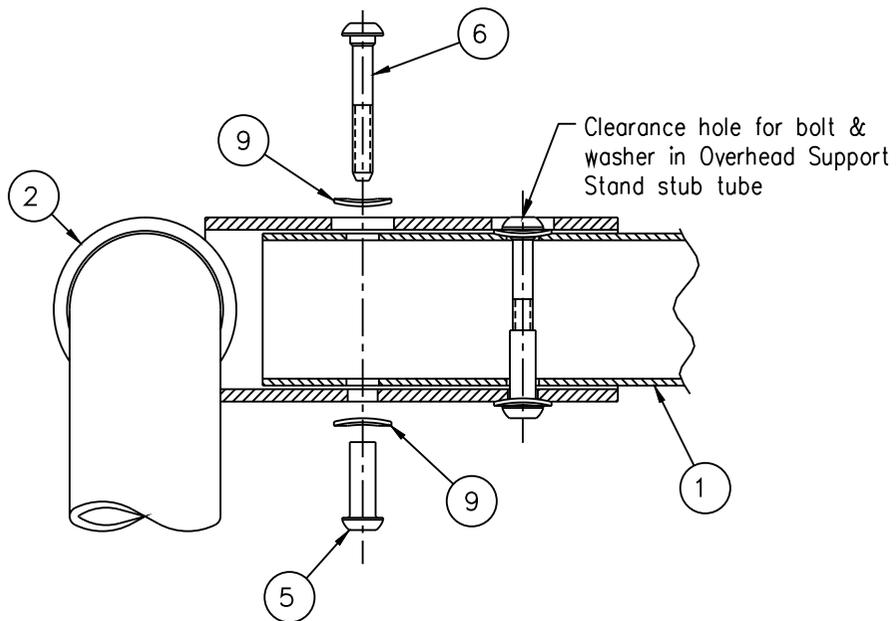
DETAIL 2

Typ 2 Places

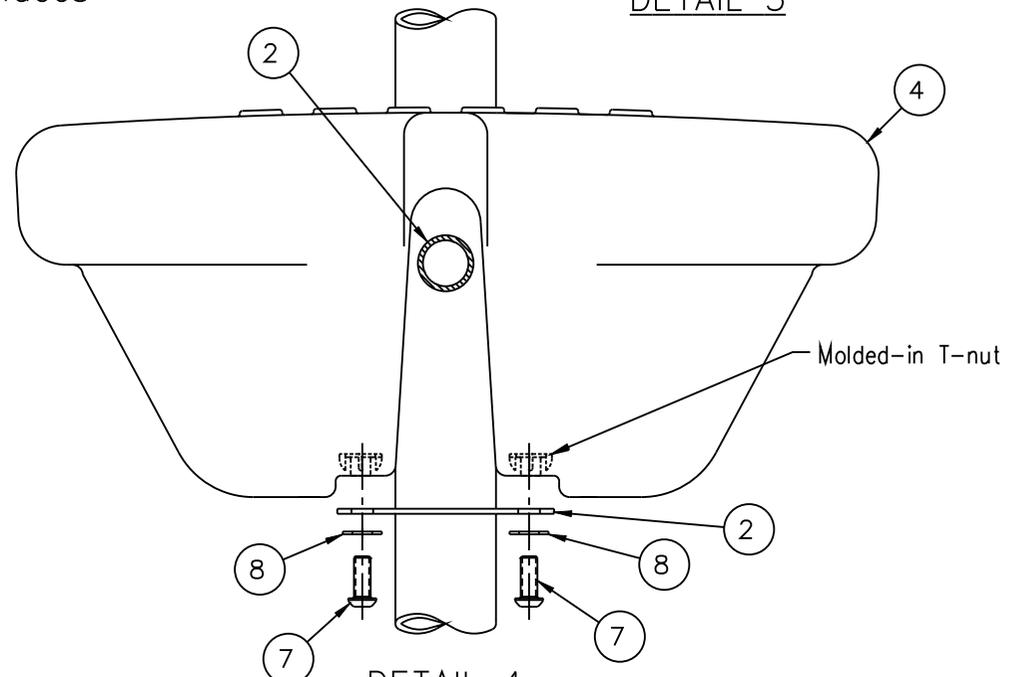
Drill  $\phi 11\text{mm}$  [ $7/16''$ ] holes thru gasket (item 11) using beam connector (item 3) as a template, typ 2 places per gasket



DETAIL 5



DETAIL 3



DETAIL 4

Typ 3 Places

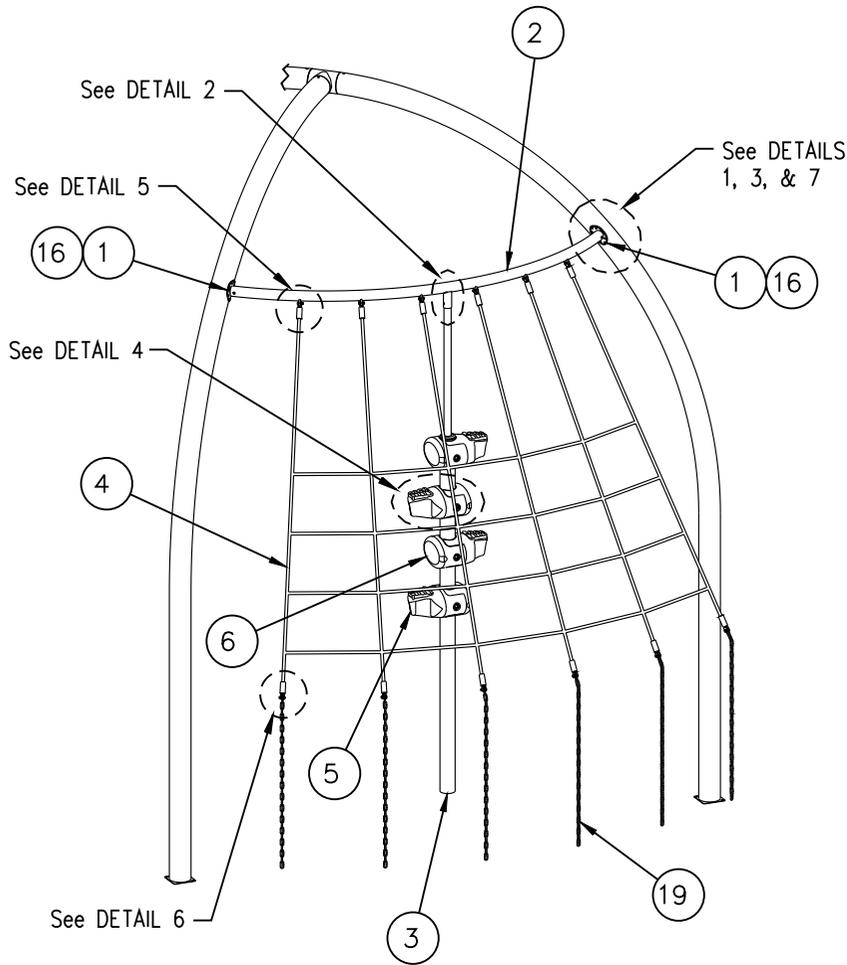
# NRG WEBWALL & WEBWALL STEPPER

**200175522**

NRG40110D-S1

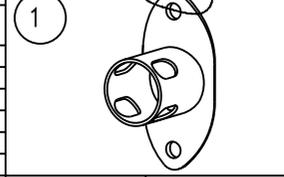
Sheet 1 of 4

AUTHORIZED BY: 12OCT10  
*Chris M. Newberry*



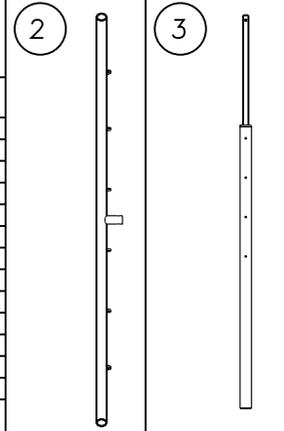
## NRG WEBWALL STEPPER 200201369

Item	Code	Description	Qty.
1	-	CONNECTOR F/NRG BEAMS BOLT ON	2
2	-	BEAM F/WEBWALL	1
3	-	WEBWALL STEPPER	1
4	-	NET ROPE F/WEBWALL	1
5	-	INFINITY WING FOOTHOLD	4
6	-	INFINITY WING BLANK HALF	4



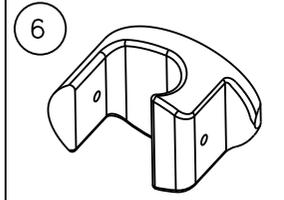
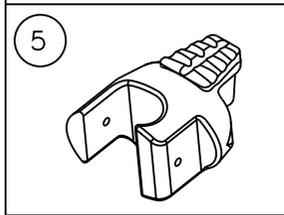
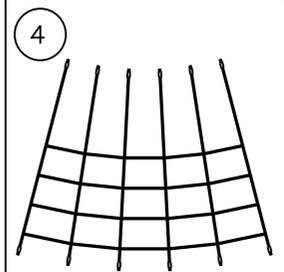
## HDWR BAG F/NRG WEBWALL 200164407

Item	Code	Description	Qty.
7	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	8
8	200002133	BOLT M8 X 1.25 MALE 27.5 MM	8
9	200002138	BOLT M8 X 1.25 MALE 42.5 MM	2
10	200002142	BOLT M8 X 1.25 MALE 57.5 MM	2
11	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30 MM	12
12	200142930	ROD THREADED M8 X 100MM	4
13	200002030	SCREW MACH BUTTONHEAD M10 X 1.50 X 30MM	12
14	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	12
15	200008483	WASHER BOWED M11 23.5 X 11.7 X 1.57 MM	12
16	200058373	GASKET F/PB PLATE (LARGE)	2
17	200066348	BUSHING BRNZ 10MM X 13MM X 10MM	6
18	200153311	ROD INTERNALLY THREADED 1/2" 240mm	4
19	200155176	CHAIN 30 LINKS 4/0 H.D.GALV.	6



### Installation Instructions

1. Prepare footings.
2. Put gaskets (item 16) on Beam Connectors (item 1) as shown in DETAIL 7. Using the two holes in beam connector plate as a template, drill  $\varnothing 11\text{mm}$  [7/16"] holes through the gaskets to allow hardware installation.
3. Loosely attach Beam Connectors (item 1) to WebWall Beam (item 2) as shown in DETAIL 1. Refer to main view for correct orientation.
4. Slide WebWall Stepper (item 3) into the vertical stub on beam and attach as shown in DETAIL 2.
5. Place WebWall Stepper (item 3) in proper footing and block beam up to correct height. Check that beam is level and WebWall Stepper is plumb.
6. Attach Webwall Beam to arches by installing hardware through Beam Connectors, gaskets, and pre-drilled holes in arches as shown in DETAIL 3.
7. Attach Footholds (item 5) & Blanks (item 6) to WebWall Stepper (item 3) as shown in DETAIL 4. Refer to main view for step orientation.
8. Place chains into footings, leave 457mm [18"] sticking out, pour concrete and cure.
9. After concrete cures, Attach Net (item 4) to beam as shown in DETAIL 5 and to Chains as shown in DETAIL 6.
10. Tighten all hardware and check chain for tension. As needed tighten net by moving connection down links in the chain. Trim extra chain links off.



# NRG WEBWALL & WEBWALL STEPPER

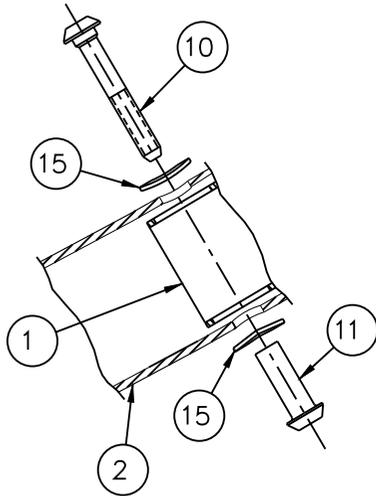
200175522

NRG40110D-S2

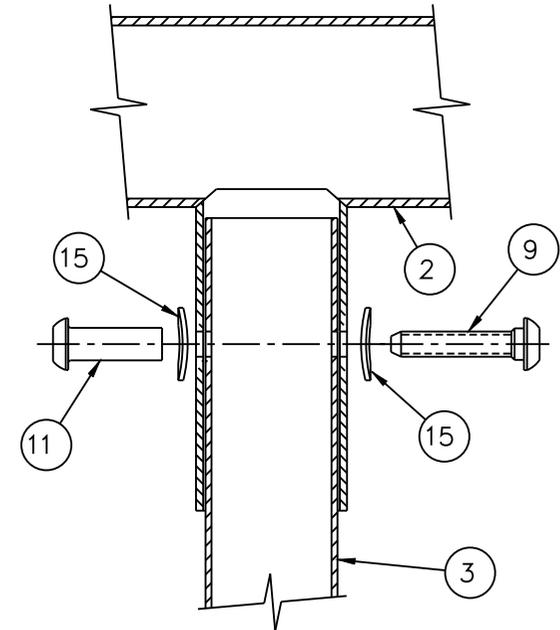
Sheet 2 of 4

AUTHORIZED BY: 12OCT10

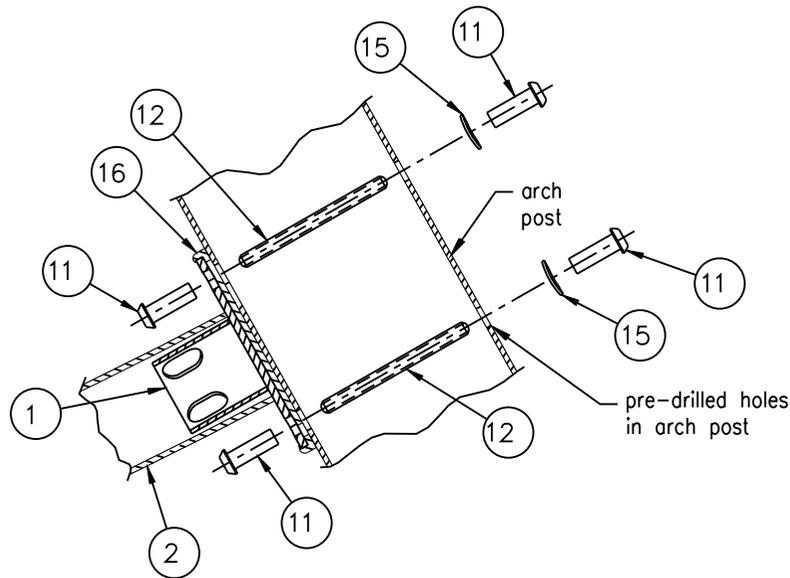
*Chris M. Anderson*



DETAIL 1  
Typ 2 Places



DETAIL 2



DETAIL 3  
Typ 2 Places

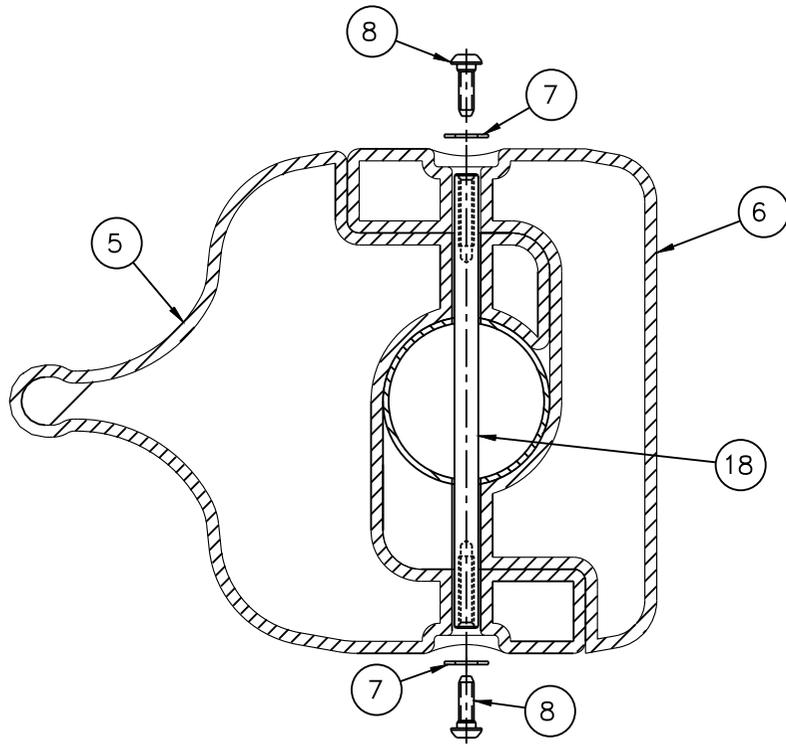
# NRG WEBWALL & WEBWALL STEPPER

200175522

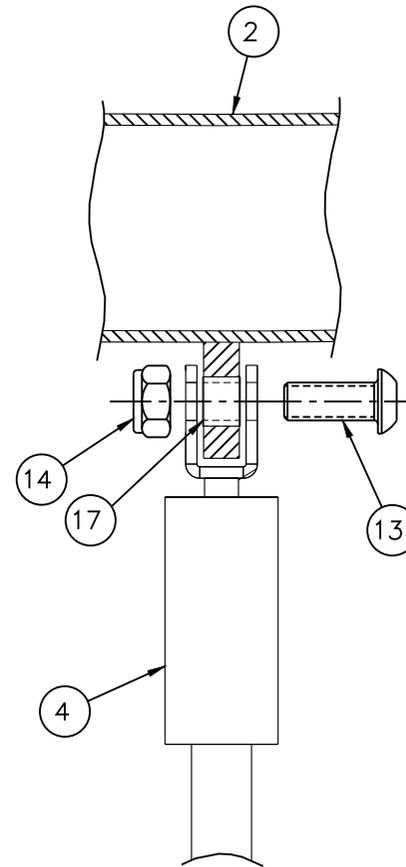
NRG40110D-S3

Sheet 3 of 4

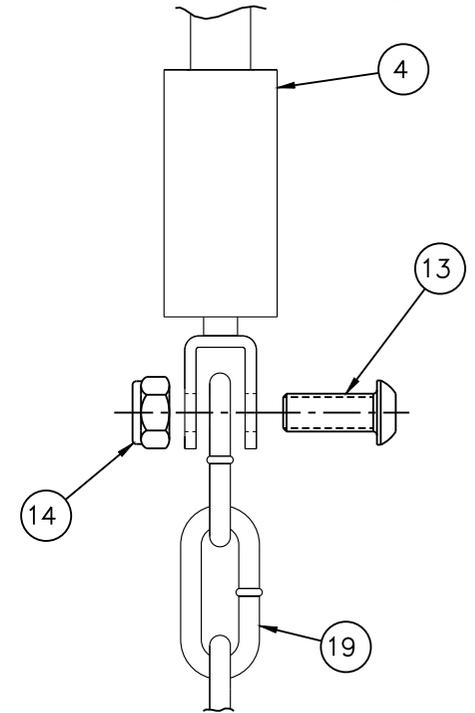
AUTHORIZED BY: *Chris M. Reardon* 12OCT10



DETAIL 4  
Typ 4 Places

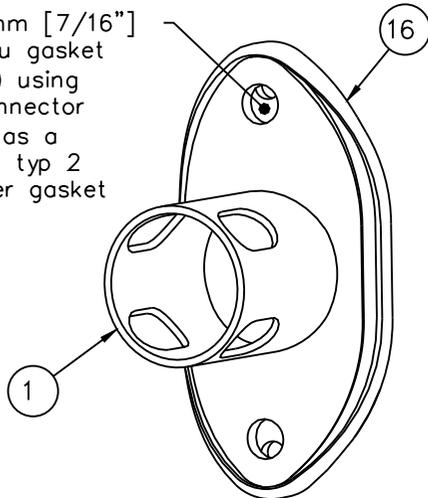


DETAIL 5  
Typ 6 Places



DETAIL 6  
Typ 6 Places

Drill  $\phi 11\text{mm}$  [ $7/16''$ ]  
holes thru gasket  
(item 16) using  
beam connector  
(item 1) as a  
template, typ 2  
places per gasket



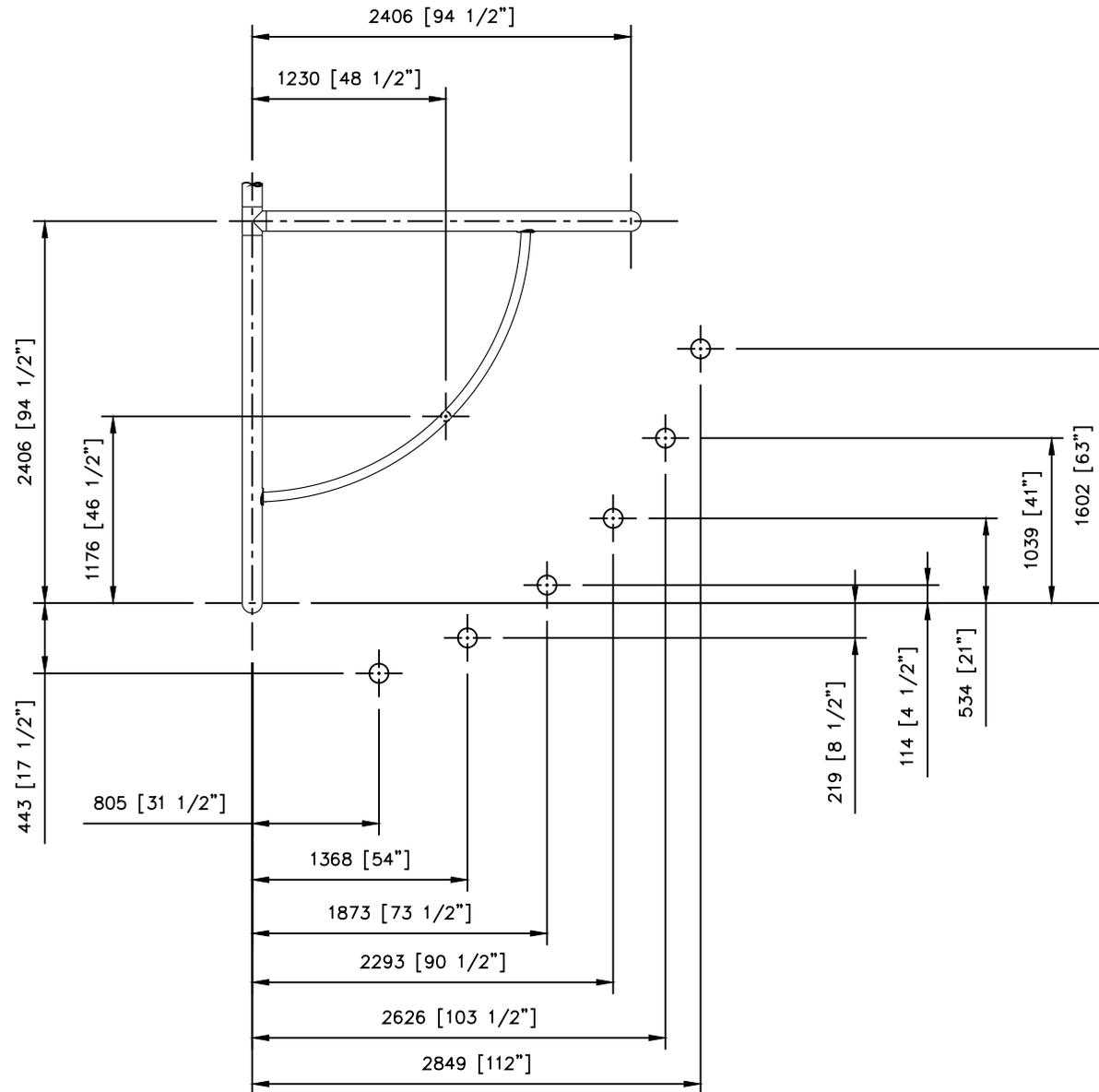
DETAIL 7

# NRG WEBWALL & WEBWALL STEPPER

200175522  
NRG40110D-S4  
Sheet 4 of 4

## FOOTING LAYOUT

AUTHORIZED BY: *Chris M. Newberry* 12OCT10



# INST F/NRG FREESTYLE OVERHEADS

200313254

NRG60007B

SHEET 1 OF 3

AUTHORIZED BY: 03JAN17  
Dustin Imel

NRG FREESTYLE RING TREK 200202890

Item	Code	Description	Qty
1A	-	ASSY RING TREK RAIL F/NFS	1

NRG FREESTYLE INLINE RAIL 200202891

Item	Code	Description	Qty
1B	-	INLINE RAIL F/NFS	1

NRG FREESTYLE LOOP RAIL 200202892

Item	Code	Description	Qty
1C	-	LOOP RAIL F/NFS	1

NRG FREESTYLE FUNWHEEL 200202894

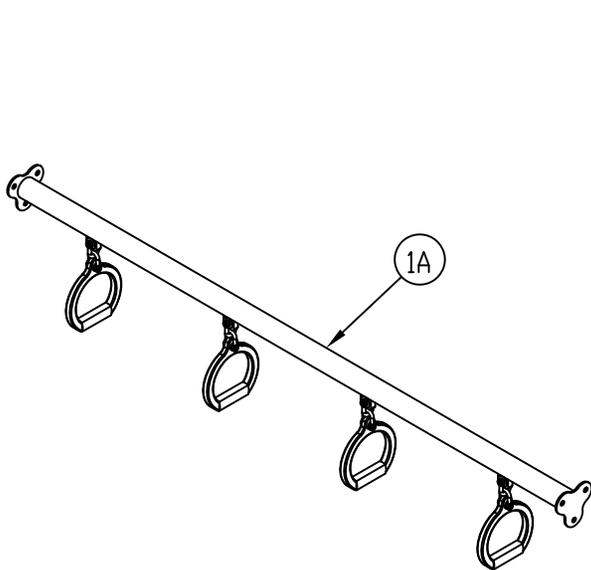
Item	Code	Description	Qty
1D	-	ASSY FUNWHEEL F/NFS	1

### Application

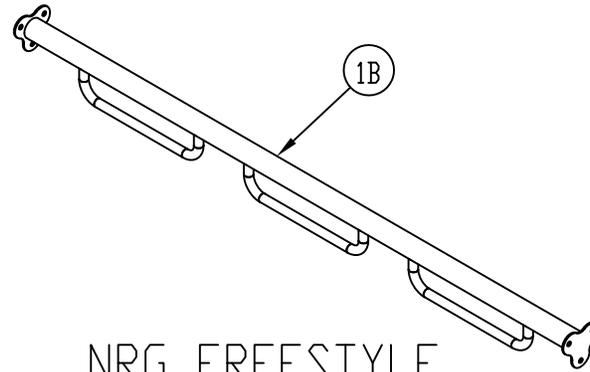
- Age group: 5 - 12 year olds

### Installation Instructions

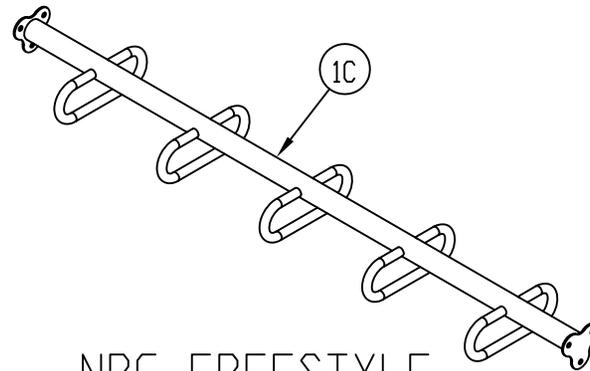
1. Attach overhead to hubs on mating components as shown on mating component installation instruction.



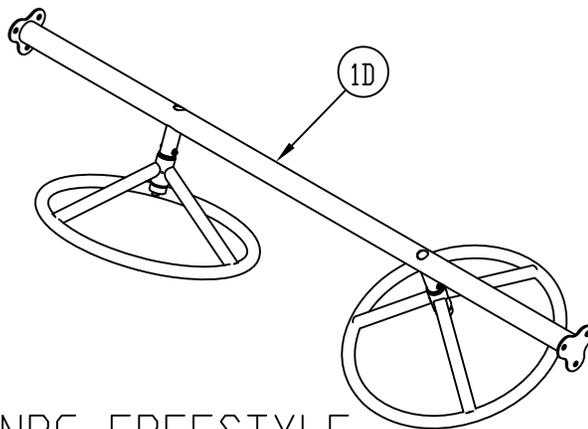
NRG FREESTYLE RING TREK



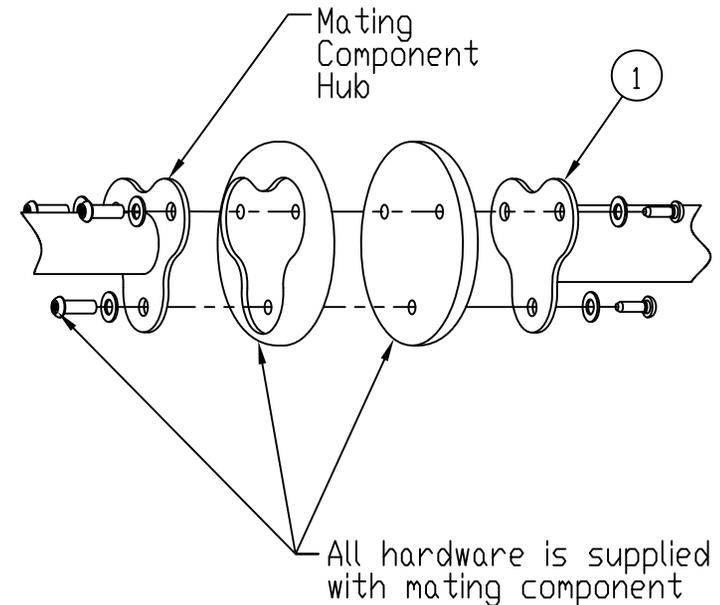
NRG FREESTYLE INLINE RAIL



NRG FREESTYLE LOOP RAIL



NRG FREESTYLE FUNWHEEL



# INST F/NRG FREESTYLE OVERHEADS

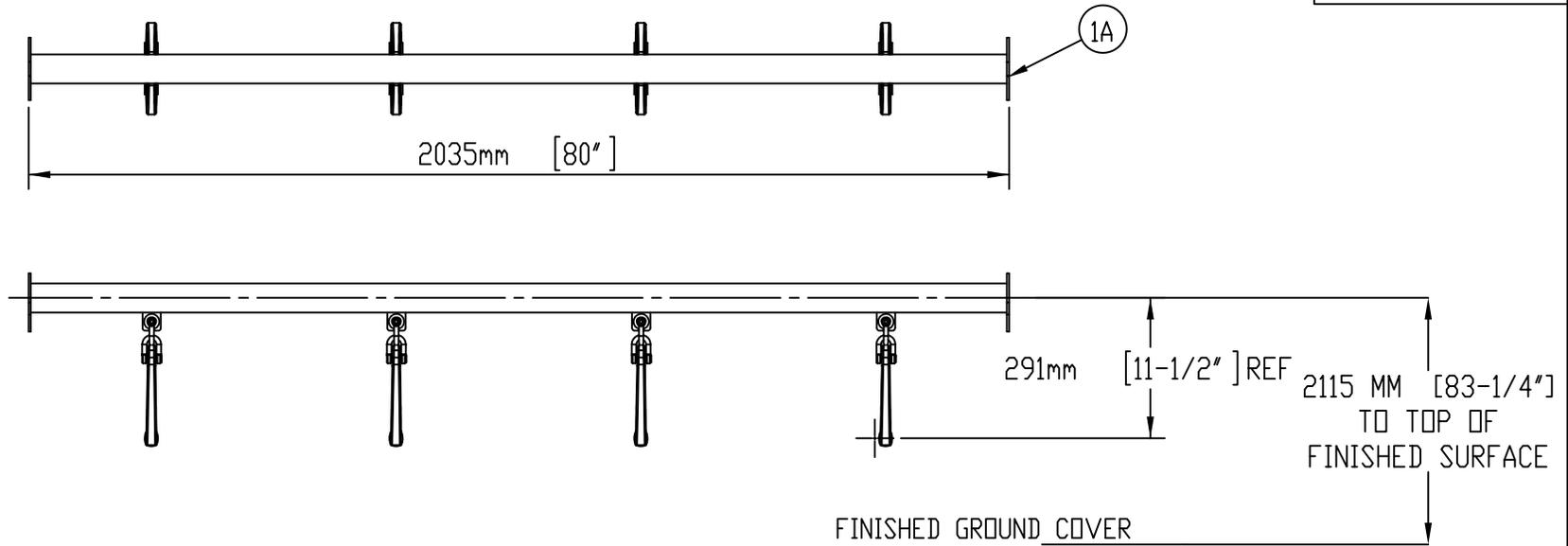
200313254

NRG60007B

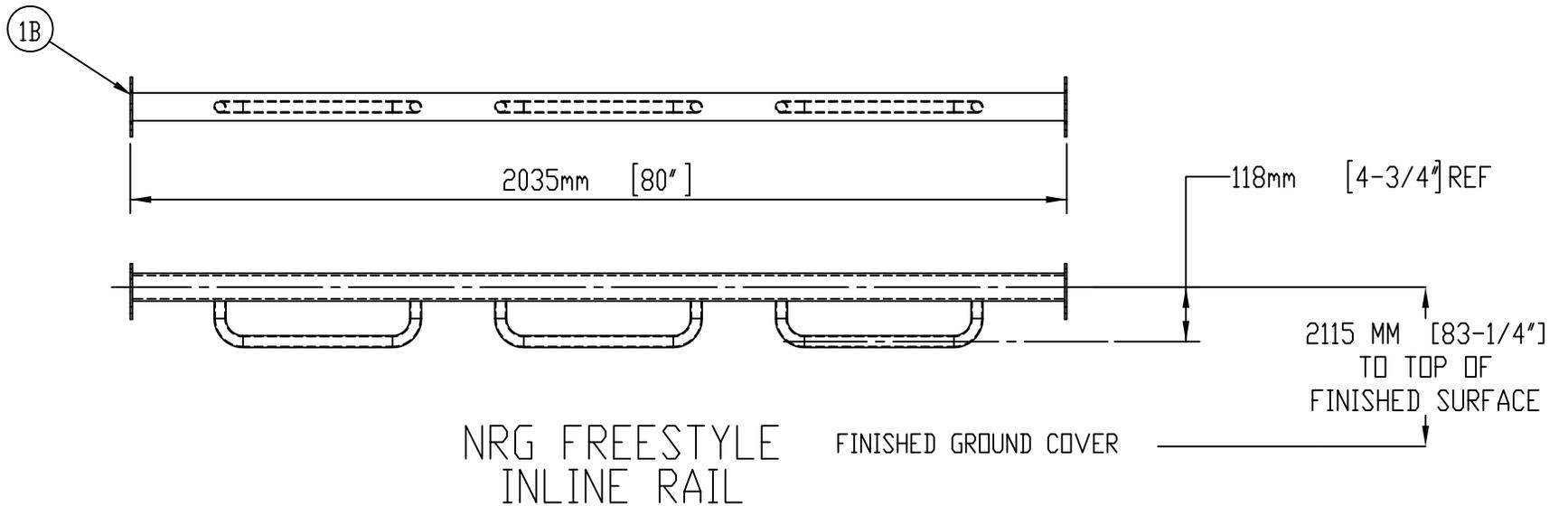
SHEET 2 OF 3

AUTHORIZED BY: 03JAN17

Dustin Imel



NRG FREESTYLE  
RING TREK



NRG FREESTYLE  
INLINE RAIL

# INST F/NRG FREESTYLE OVERHEADS

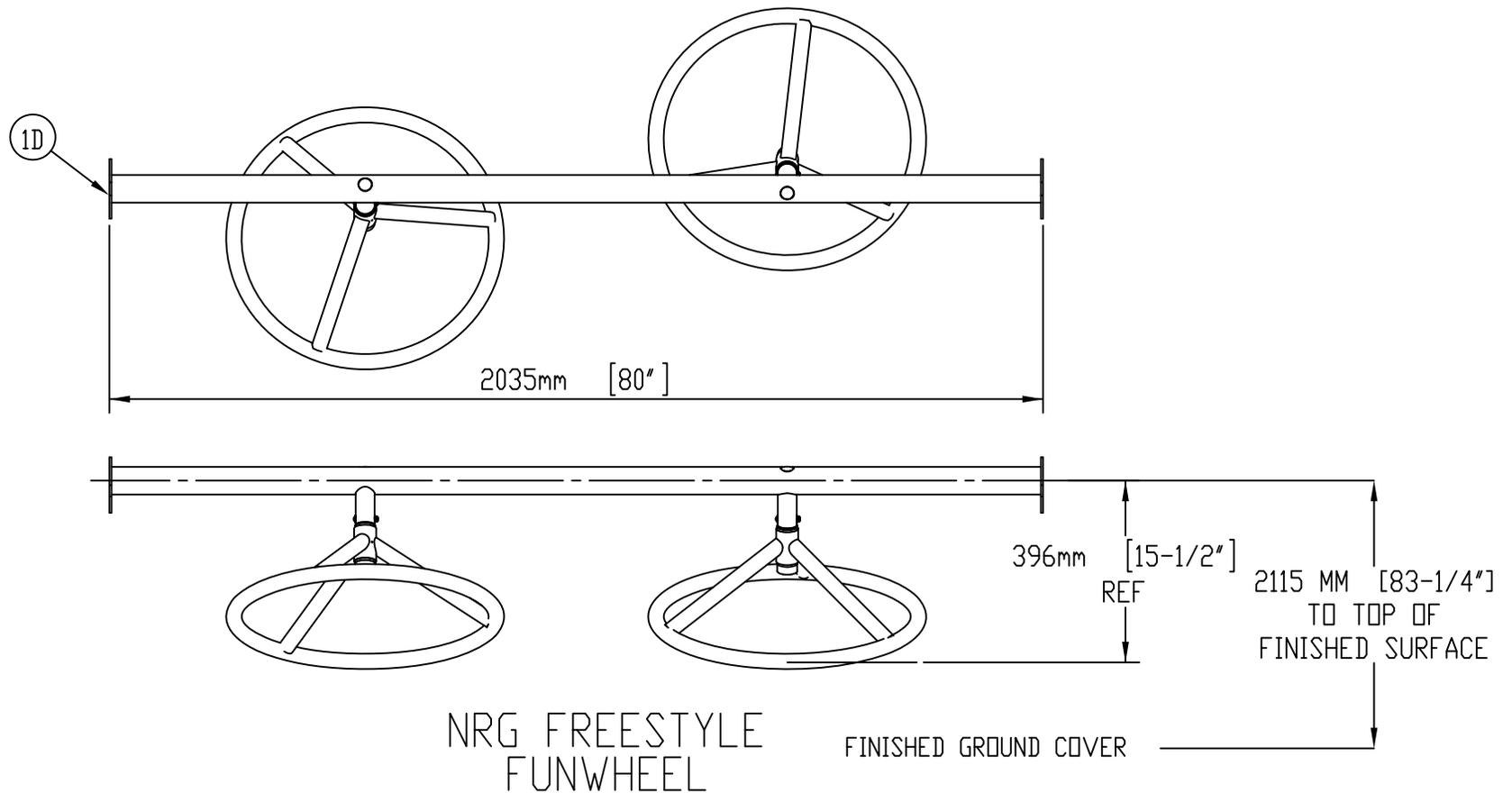
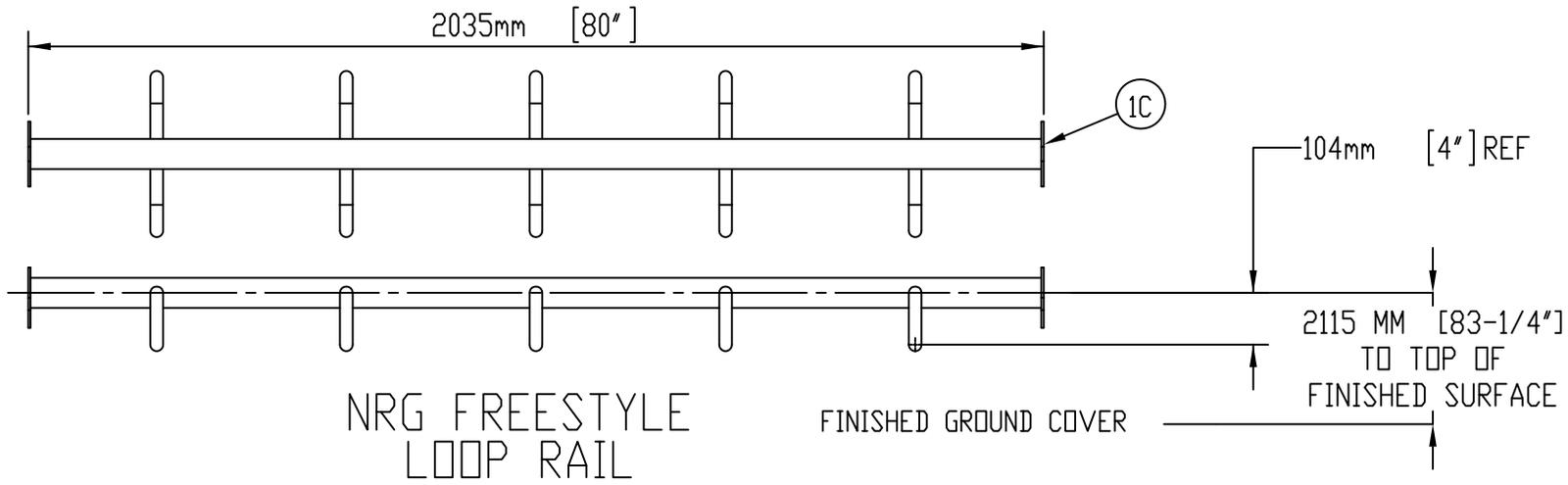
200313254

NRG60007B

SHEET 3 OF 3

AUTHORIZED BY: 03JAN17

Dustin Imel



NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS



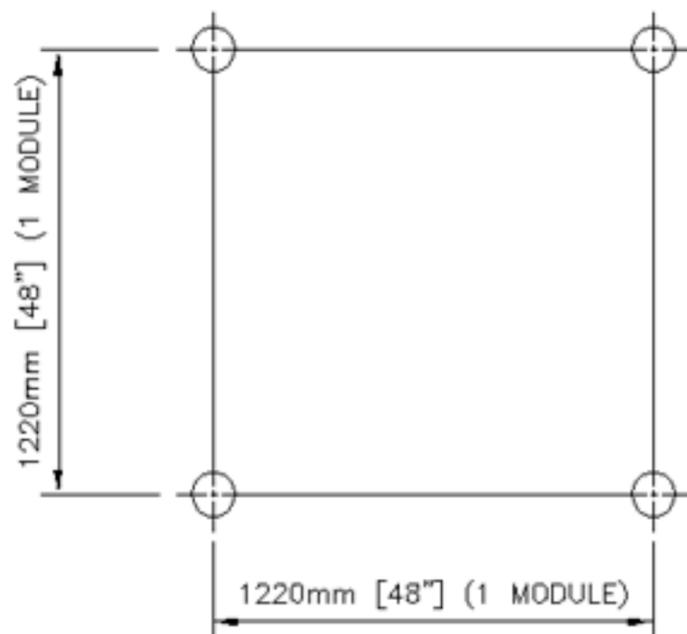
Project Number: R0324180256  
PlayArea: PlayArea\_2 | KidBuilders  
Project Name:  
Project Location:  
Sales Representative:  
Northland Recreation  
N49 W34651 Wisconsin Ave  
Okauchee ,WI 53069  
262-313-8636

## Installation Instructions

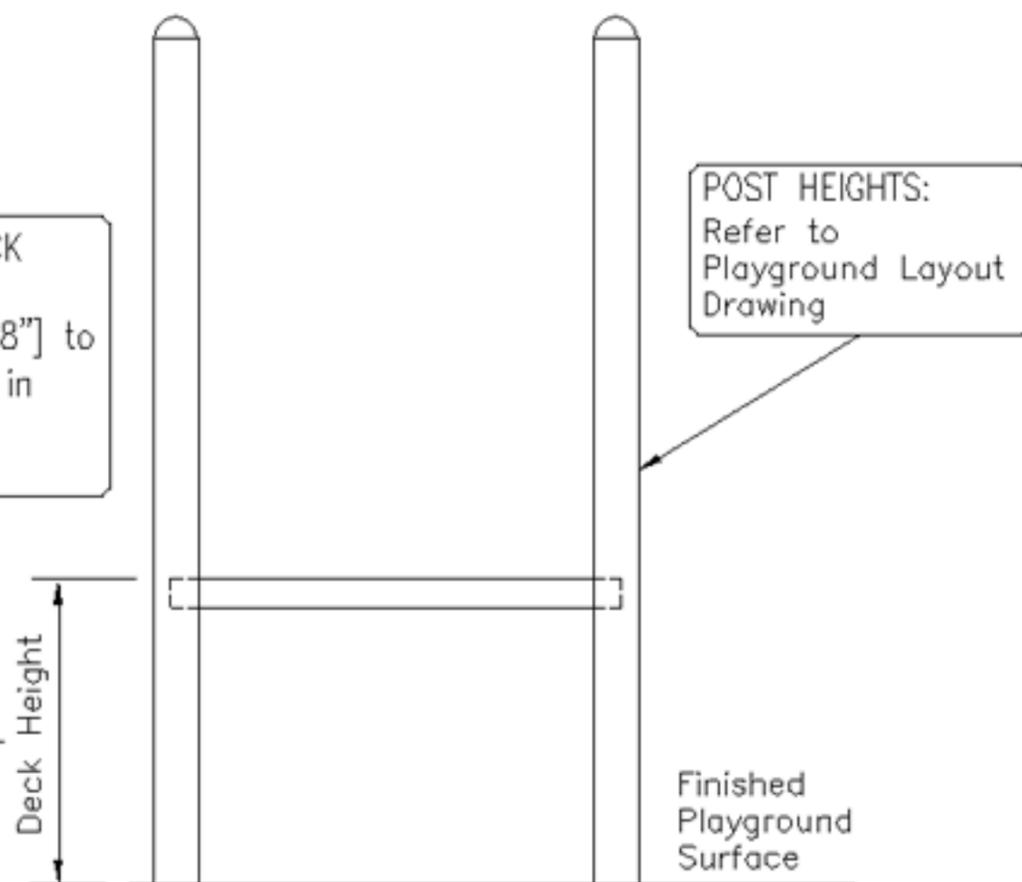
Please, read all information in this manual before starting to install your equipment.

Date: 4/19/2018 12:00:00 AM

Posts and decks of the Kid Builders system are based on a module of 1220mm [48"] x 1220mm [48"]



**STANDARD DECK HEIGHTS:**  
From 203mm[8"] to 2440mm[96"] in 203mm[8"] increments.



**NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS**

BEFORE STARTING INSTALLATION OF YOUR KID BUILDERS PLAYGROUND, "PLEASE READ INSTRUCTIONS THOROUGHLY"

AUTHORIZED BY:  
*Chris M. [Signature]* 15MAR01

**SITE REQUIREMENTS:**

The Kid Builder system is designed to suit a level site. Should there be any falls or slopes on the site, care should be taken to accommodate the entry and exit points and to maintain the correct heights.

The site must be checked for adverse or unusual conditions. i.e.

- 1) Exposed, cracked or loose concrete footings.
- 2) Worn, scattered or compressed surface material.
- 3) Exposed roots, rocks or other environmental obstacles that form potential trip hazards.
- 4) Broken glass, refuse, or foreign objects around and on play equipment.
- 5) Poor drainage areas.
- 6) All sites especially those close to existing buildings must be checked for electrical or gas lines and drainage before digging.

**MAINTENANCE:**

As the owner, it is most important that you are aware of your responsibility for the safe use of your new play equipment. It is necessary to install equipment correctly according to the installation instructions provided and inspect the equipment regularly at intervals specified within the "Maintenance Manual," located in your maintenance kit. During inspection, if any part is found to be damaged or excessively worn, equipment should immediately be put out of service while the part is replaced. Lack of "maintenance" will result in premature wear, reduced life expectancy and possible failure.

All Little Tikes Commercial Play Systems playevents have been designed and engineered to meet all applicable safety guidelines, but if installed improperly, problems may occur such as: protruding hardware, entrapment gaps between 89mm[3.5"] to 228.6mm [9"], or string entanglements. Make certain the runout heights on all slides match what is recommended on the instruction page for that model number. Any accessible bolt ends that protrude beyond the face of the nut by more than two threads should be trimmed and peened smooth by the installer. Once your installation is complete, always inspect your work. Installation must be done to the manufacturer's assembly manual and applicable safety guidelines and/or standards.

**ALL CHILDREN SHOULD BE SUPERVISED WHILE PLAYING ON EQUIPMENT.**

**SAFETY AREAS:**

The area immediately surrounding and above the play structure must be free of obstructions such as: buildings, trees, other play equipment, etc., and must be kept clear for entries, exits, traffic and falls. Make sure your site has the required surfacing and fall area designated on your Playground Layout Drawings.

**INSTALLATION MANUAL:**

We have tried to make this installation manual as comprehensive and factual as possible. Please note from time to time information may be changed or updated. Equipment shown or described throughout this manual may be changed. The right is reserved to make changes at any time without notice.

AUTHORIZED BY:  
*Chris M. [Signature]* 15MAR01

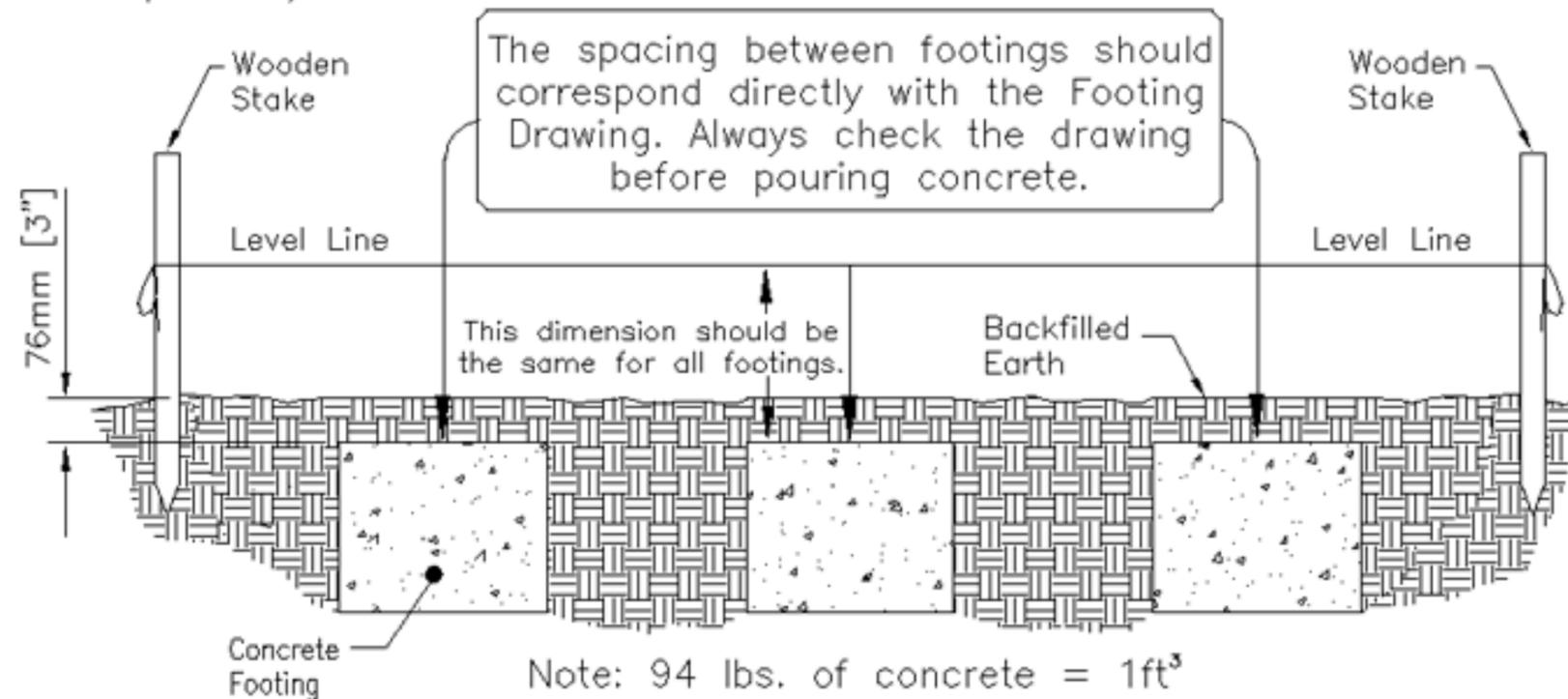
## THE ORDER OF ASSEMBLY:

- 1) Prepare your site. (Consideration is necessary for installing the talk tube on a structure. See Site Preparation Guidelines, or Talk Tube instructions for details.)
- 2) If you are using an Anchor bolt, you will need to pour concrete at least 48 hours in advance. Do not leave any open holes overnight. (Never leave a structure overnight in a potentially hazardous condition, i.e. open footing holes, open decks, exposed concrete, without roping off the area and posting warning signs. It is always best if the construction is scheduled such that the entire installation can be performed in one day, however, with larger structures this may be difficult.)
- 3) Start with the lowest deck and four posts. Calculate the location of the deck top on the first post by adding 991 [39"] to the deck height. Mark the post then install as shown. (See Square Deck installation instructions for further details. **THE INSTALLATION OF THE FIRST DECK IS CRITICAL TO PROPERLY INSTALLING THIS EQUIPMENT, SO MAKE SURE THE POSTS AND DECK ARE AT THE PROPER HEIGHT AND ARE PLUMB AND LEVEL.**)
- 4) Place this assembly in the footings. If you are sure the first deck assembly is correctly positioned, you may pour the four post footings at this time to help stabilize the structure. If installing the Surface Mount method, move the assembly to the proper location. Use the feet as templates, drill bolt holes and secure the structure to the footings.
- 5) If a Deck to Deck Plate, Ladder Panel, or Interstep Deck are to be attached to the first deck, assemble the bottom edge to the deck edge. See individual instructions for details.
- 6) Attach the next deck to two posts and move the posts into the footing holes and level the deck. Attach the two open corners of the deck to the previous deck assembly posts. Finish installing the deck to deck attachment by assembling it to the edge of the upper deck.
- 7) Attach any structure linking events or overheads to the deck assemblies, such as Crawl Tunnels, Clatter Bridges, Burmese Bridges, Suspension Bridges, Challenge Ladders, etc. Continue to add the remaining decks and deck attachments to the existing structure until all platforms are in place.
- 8) Make sure the structure is level and the decks are at the proper height. Install any roofs or enclosures.
- 9) Install all remaining events.
- 10) Tighten all hardware and install clamp drive pins. Be sure to use as many as the instructions call out.
- 11) Place warning labels on the structure. Inspect playground for protruding hardware, entrapment gaps between 89mm [3-1/2"] to 229mm [9"], and string entanglements. Make sure the runout heights on all slides match what is recommended on the instruction page for that model number. Any accessible exposed bolt ends that protrude beyond the face of the nut more than two threads should be trimmed and peened by the installer.
- 12) Install resilient surfacing on the entire "use zone".

## MAKING LEVEL FOOTINGS:

By using wooden stakes and stringing a level line, you can determine the proper height for your concrete. If available, a surveyor's transit will also be helpful.

Determine ground level at the lowest footing location and pour concrete in this location first. This level will be your datum plane. (The point at which all other footing heights are referenced from.) Pour the rest of the footings up to 76mm [3"] from the level of the datum plane. Make sure that all measurements from the top of the poured footing to the level line are the same. (Hint: If installing a surface mount structure, concrete should be poured at least 48 hours in advance of the playground being installed to ensure maximum holding potential.)



Note: 94 lbs. of concrete = 1ft<sup>3</sup>  
207 grams = 0.041m<sup>3</sup>

If installing with the Inground method, you must always backfill footings with at least 76mm [3"] of earth after concrete has cured (not shown).

## SUGGESTED TOOLS:

- |                                       |                                  |
|---------------------------------------|----------------------------------|
| - 2 Magnetic Levels                   | - Extension Cords                |
| - 1 1220[48"] Carpenter's Level       | - Water Supply/Garden Hose       |
| - 2 Measuring Tapes                   | - Wooden Stakes                  |
| - 1 Felt Tip Pen                      | - Concrete (in some cases)       |
| - 1 Sledge Hammer or Rubber Mallet    | - Some sort of digging equipment |
| - 1 610mm-915mm [24"-36"] Bolt Cutter | - Transit                        |
| - 1 Roll of String                    | - Adjustable Wrenches            |
| - Ratchets for M10 Torx Service Drive | - Metric Socket Set              |
| - Electric Drill                      | - Various Drill Bits             |
| - C-Clamps                            | - Wheel Barrow                   |
| - Saw Horses                          | - Ladders                        |
| - Resilient Ground Cover              | - Generator/ Power Source        |

AUTHORIZED BY:  
*Chris M. [Signature]* 15MAR01

**WARNING**

INSTALLATION OVER A HARD SURFACE SUCH AS CONCRETE, ASPHALT, OR PACKED EARTH MAY RESULT IN SERIOUS INJURY OR DEATH FROM FALLS.

L'INSTALLATION SUR SURFACE DURE TELLE QUE DU CIMENT, DE L'ASPHALTE OU DE LA TERRE BATTUE PEUT CAUSER DE SERIEUSES BLESSURES OU MEME LA MORT EN CAS DE CHUTE.

INSTALACION SOBRE UNA SUPERFICIE DURA, TAL COMO CONCRETO, ASFALTO O TERRENO COMPACTADO, PUEDE PROVOCAR QUE UNA CAIDA CAUSE LESIONES SERIAS O INCLUSO LA MUERTE.

Little Tikes Commercial Play Systems Inc.  
P.O. Box 897  
Farmington, MO 63640

For more information, call Little Tikes Commercial Play Systems Inc. at 1-888-458-2737 or 1-573-756-4591

← This label has been provided by Little Tikes Commercial Play Systems Inc. for the purpose of informing the user of the safety risk involved if a fall onto a hard surface occurs.

It is important when installing your play equipment to display this label in a prominent location on each structure.

This label should be placed such that it will:

- (1) Be readily visible to the intended viewer and,
- (2) Alert the viewer to the potential hazard in time to take appropriate action.

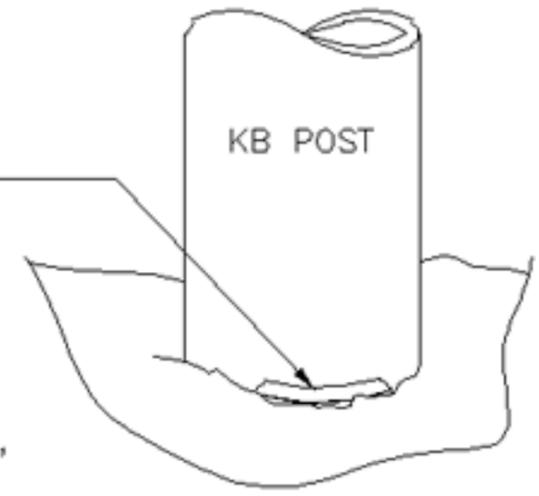
Do not place this label in a high traffic area or in a location of excessive wear. If the label becomes illegible, destroyed, or removed, it is necessary for the operator to replace the label as soon as possible.

### SLIDE INSTALLATION:

Due to manufacturing variability, the actual slide footing dimensions may vary from the installation instruction dimensions by as much as 50mm [2"]. Actual footing locations should be determined by positioning assembled equipment.

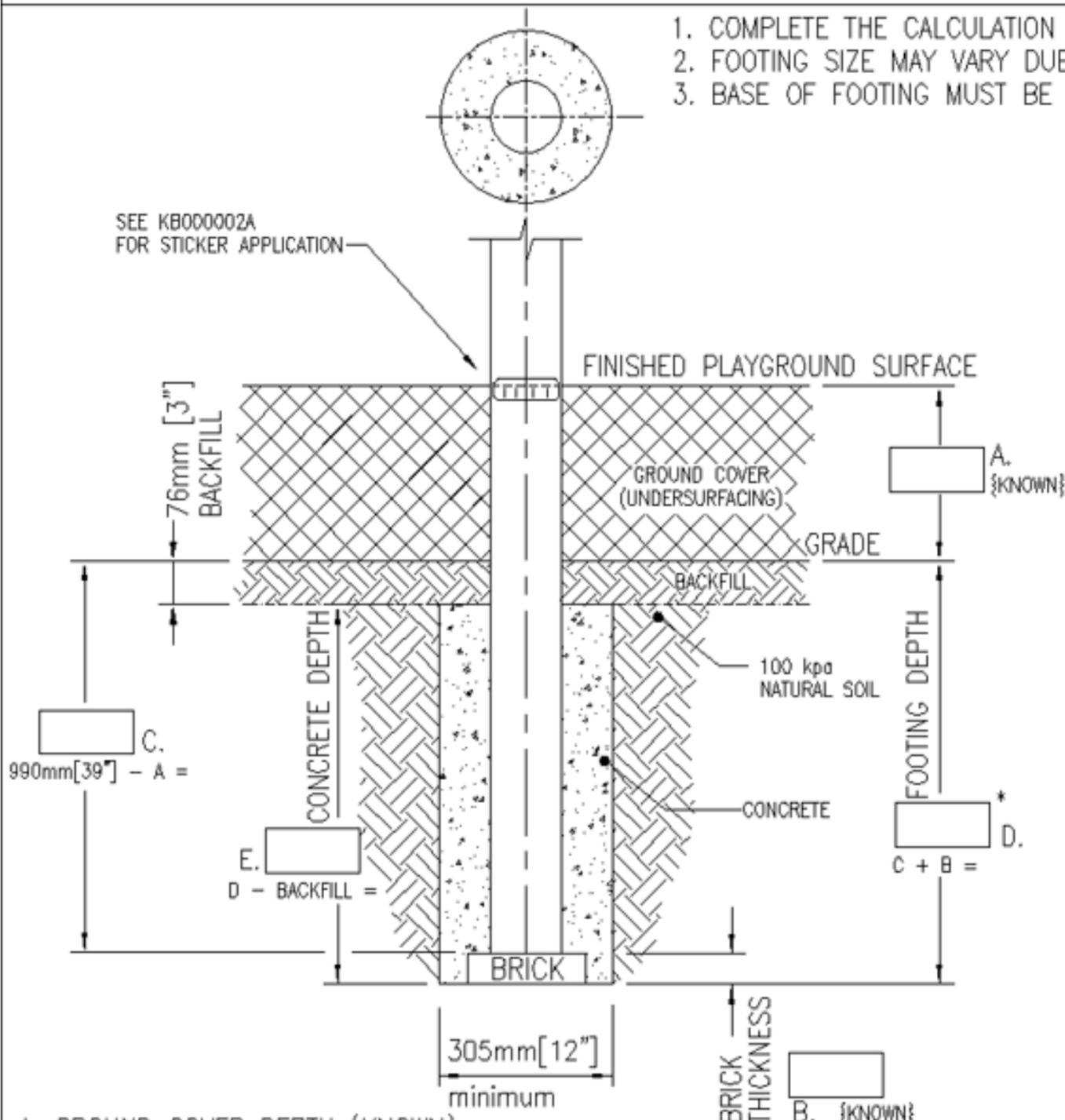
If you are in need of Material Safety Data Sheets pertaining to the use and handling of any maintenance materials such as touch-up paint, vinyl repair kits or for product such as, Kid Tiles adhesive or urethane top coatings, please contact our Customer Service Department at 1(800)325-8828. They will be able to provide you with the information you require.

<b>TOP OF SURFACE</b>	<b>HASTA A QUI</b>	<b>NIVEAU ZERO</b>
INSTALL AND MAINTAIN TOP OF RECOMMENDED SURFACING TO THIS MARK	COLOQUE Y MANTENGA HASTA LA MARCA LA SUPERFICIE RECOMENDADA	POUR L'INSTALLATION ET LA MAINTENANCE LA SURFACE AMORTISSANTE DOIT ATTEINDRE CE NIVEAU



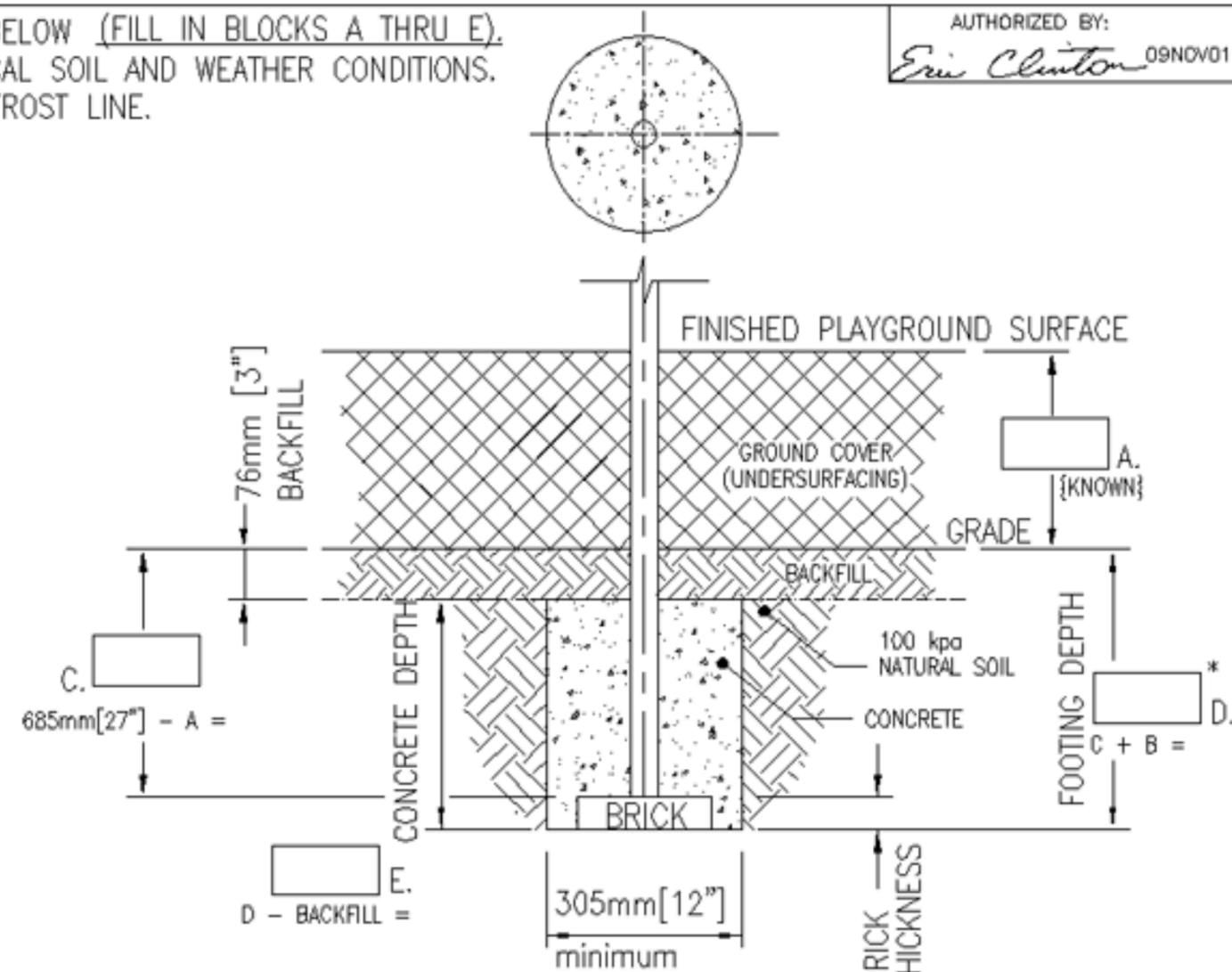
The sticker shown here has been provided to assist with the maintenance of your ground cover. After installing the ground cover, these stickers should be placed on the post by the installer (as shown). Peel the backing away from the sticker and attach it to the post so that the line is level with the top of your ground cover. As erosion or compaction of surfacing occurs, the line will be visible. This will indicate that it is time to add material to your surfacing.

1. COMPLETE THE CALCULATION SHEET BELOW (FILL IN BLOCKS A THRU E).
2. FOOTING SIZE MAY VARY DUE TO LOCAL SOIL AND WEATHER CONDITIONS.
3. BASE OF FOOTING MUST BE BELOW FROST LINE.



- A. GROUND COVER DEPTH {KNOWN}.
- B. BRICK THICKNESS {KNOWN}.
- C.  $990\text{mm}[39"] - A$  BECAUSE  $A + C$  SHOULD ALWAYS EQUAL  $990\text{mm}[39"]$
- D. FOOTING DEPTH =  $[C] + \text{BRICK THICKNESS}$ .
- \*MINIMUM  $610\text{mm}[24"] + \text{BRICK THICKNESS}$  FOOTING DEPTH REQUIRED
- E. CONCRETE DEPTH = FOOTING DEPTH  $[D] - 76\text{mm}[3"]$  (BACKFILL).

## KB POST FOOTING - INGROUND



- A. GROUND COVER DEPTH {KNOWN}.
- B. BRICK THICKNESS {KNOWN}.
- C.  $685\text{mm}[27"] - A$
- BECAUSE  $A + C$  SHOULD ALWAYS EQUAL  $685\text{mm}[27"]$
- D. FOOTING DEPTH =  $[C] + \text{BRICK THICKNESS}$ .
- \*MINIMUM  $305\text{mm}[12"] + \text{BRICK THICKNESS}$  FOOTING DEPTH REQUIRED
- E. CONCRETE DEPTH = FOOTING DEPTH  $[D] - 76\text{mm}[3"]$  (BACKFILL).

## KB PLAYEVENT FOOTING - INGROUND

HOW MUCH CONCRETE?

VOLUME OF CONCRETE REQUIRED FOR FOOTINGS:

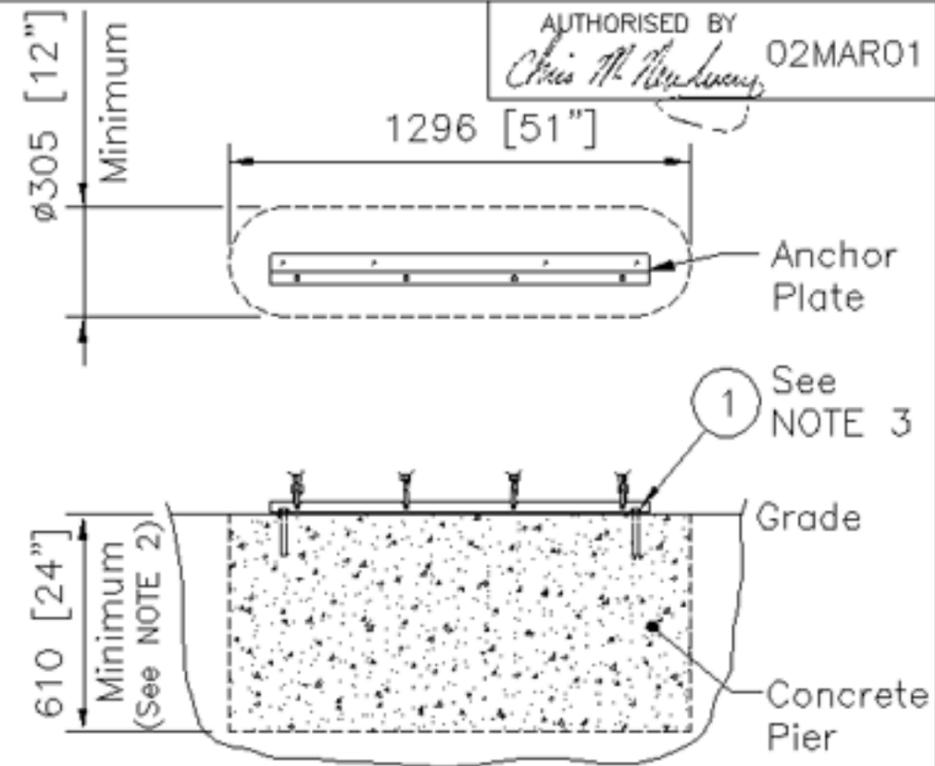
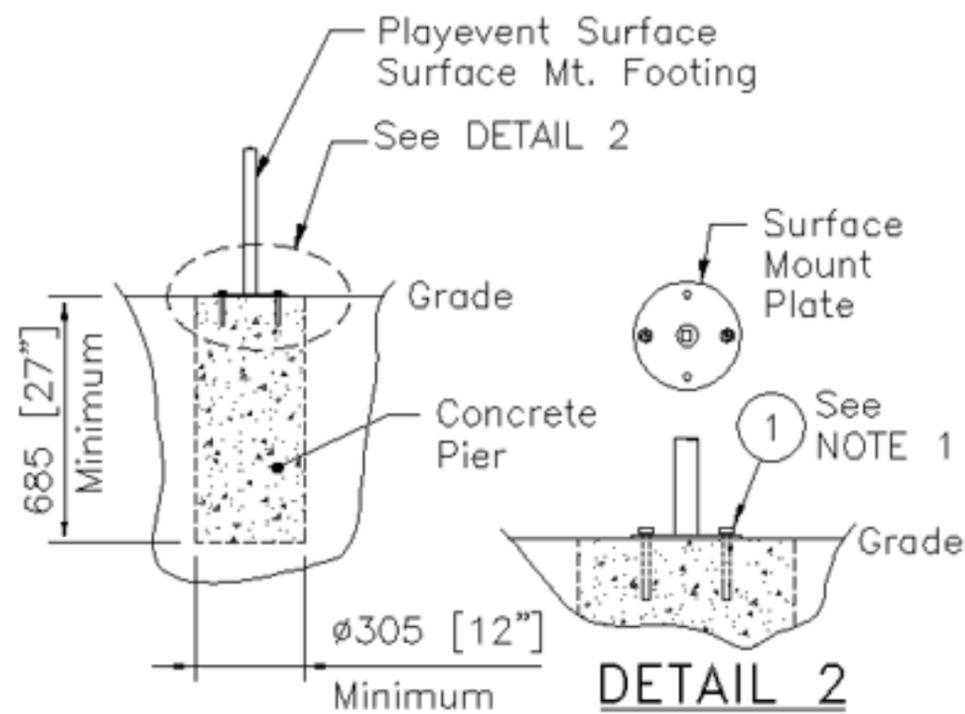
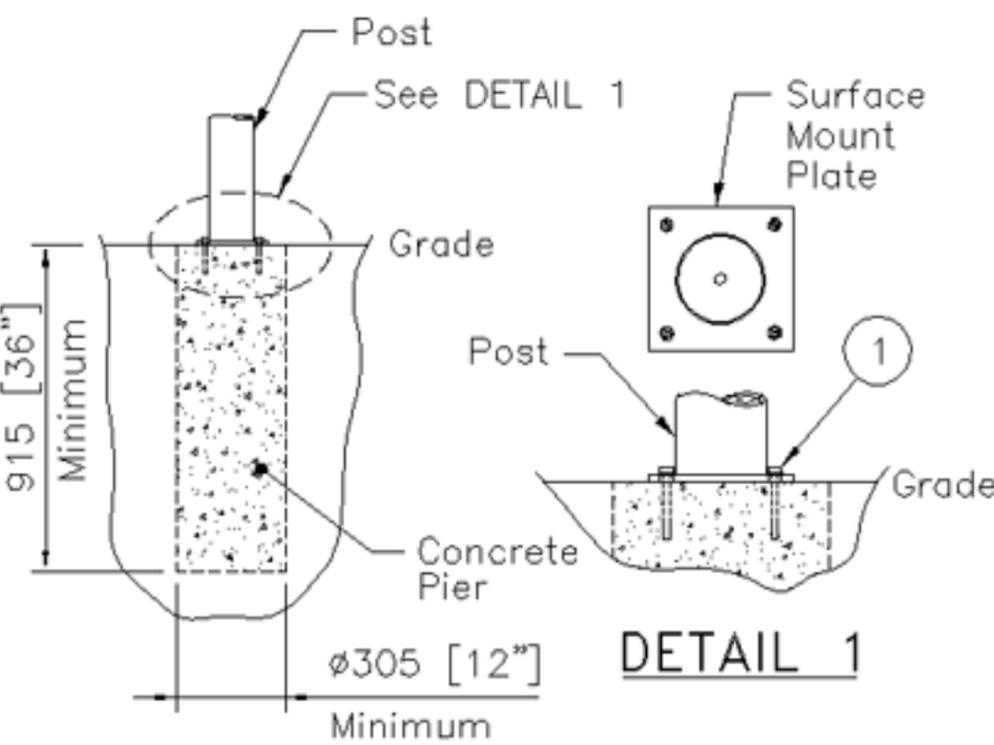
=  $0.067 \text{ M}^3 \times \left\{ \frac{\text{CONCRETE DEPTH (mm)}}{915} \right\} \times \text{No. OF FOOTING HOLES} = \text{M}^3$

=  $0.087 \text{ Yard}^3 \times \left\{ \frac{\text{CONCRETE DEPTH (IN)}}{36} \right\} \times \text{No. OF FOOTING HOLES} = \text{Yard}^3$

NOTES: - TO CALCULATE CUBIC FEET, MULTIPLY CUBIC YARD BY 27  
 - 94 lbs OF CONCRETE = 1 CUBIC FOOT.

AUTHORISED BY  
*Chris M. [Signature]* 02MAR01

## OPTION 1: PIER



**NOTE 1:** Two per plate, diagonally located.

**NOTE 2:** Depth is less than round anchor because of extra volume of concrete.

**NOTE 3:** Anchor bolts shown on ends, but can be moved to other holes if necessary for accessibility.

### Round Anchor

### Anchor Plate

Post Footing Parts List (Surf. Mt. Anchor)			
Item	Dwg Ref	Description	Qty.
1	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100MM	4

### Post Footing

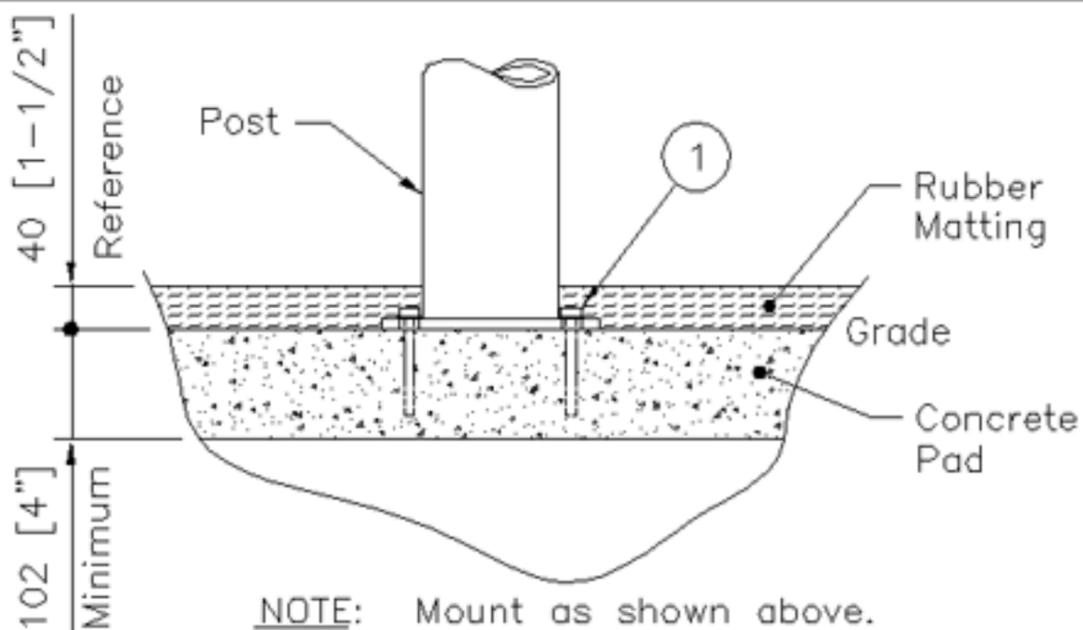
Playevent Footing Parts List (Surf. Mt. Anchor)			
Item	Dwg Ref	Description	Qty.
1	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100MM	2

### Playevent Footing

## OPTION 2: CONCRETE PAD

**NOTE 4:** Concrete may require up to 3 days to cure.

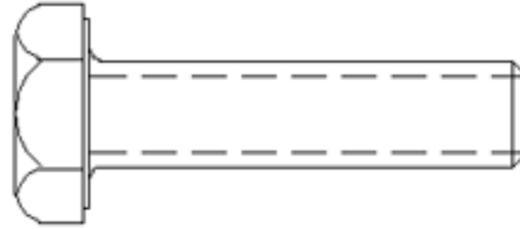
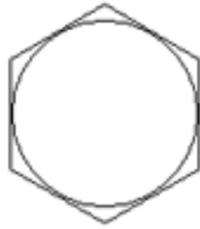
**NOTE 5:** A 3/8" Masonry bit is required to install anchor bolts.



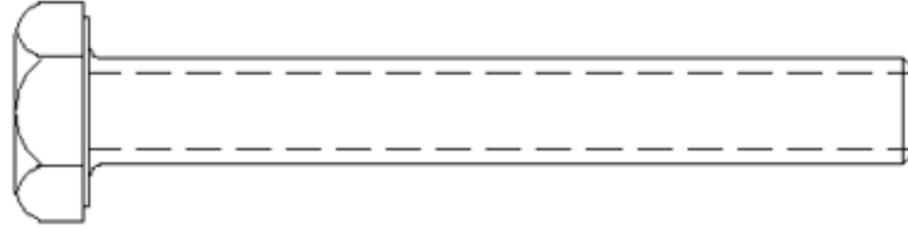
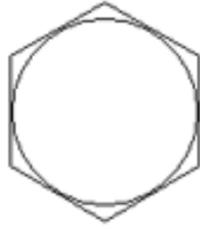
**NOTE:** Mount as shown above.

AUTHORIZED BY:  
*Chris M. Newberry* 01MAR01

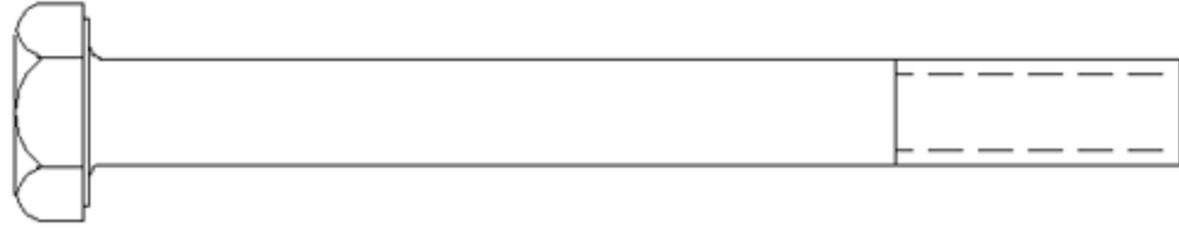
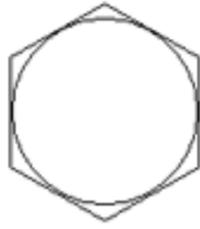
200001850  
CAP SCREW HEX HEAD M10 x 1.50 x 40mm



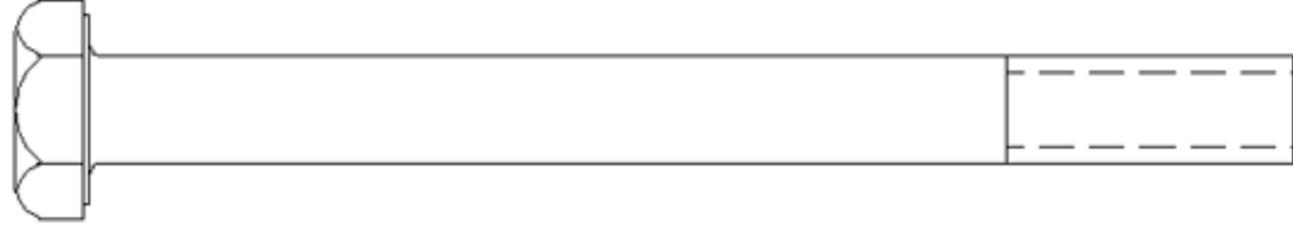
200001859  
CAP SCREW HEX HEAD M10 x 1.50 x 75mm



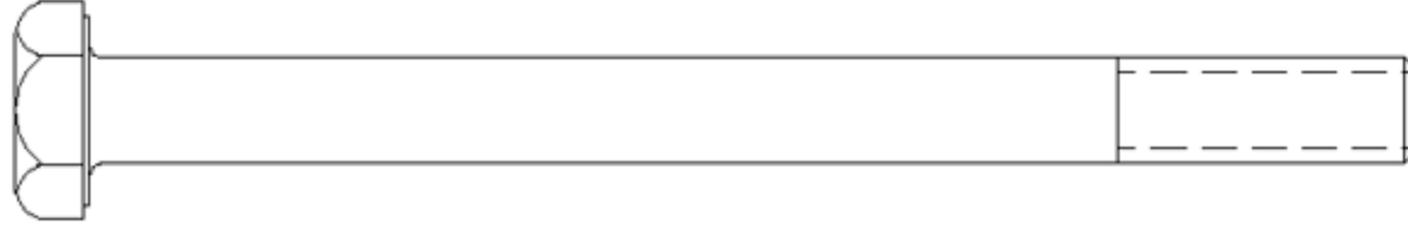
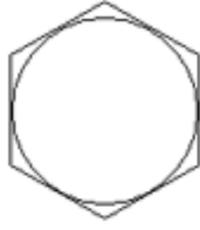
200001866  
CAP SCREW HEX HEAD M10 x 1.50 x 100mm



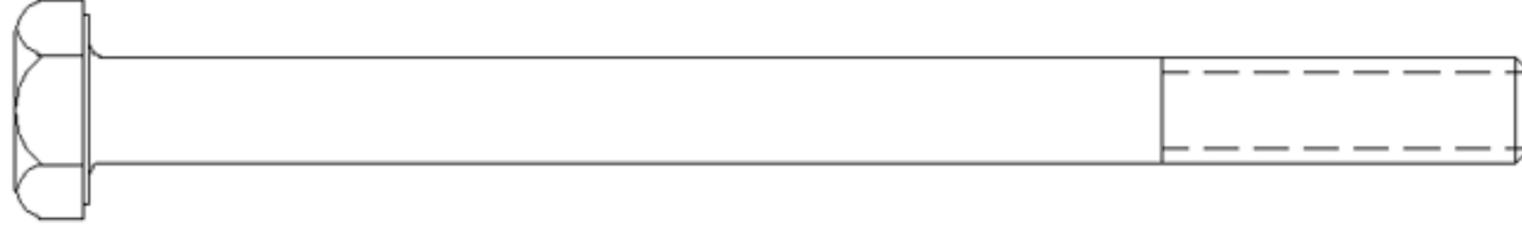
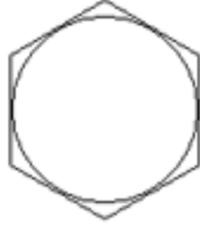
200001875  
CAP SCREW HEX HEAD M10 x 1.50 x 110mm



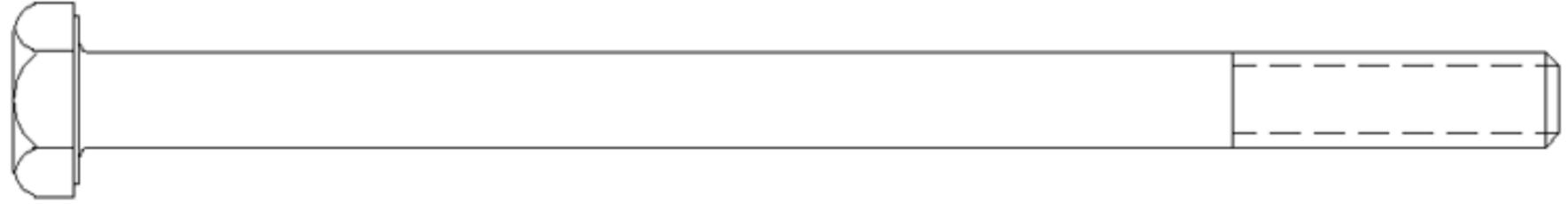
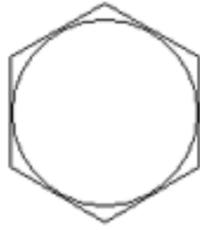
200001879  
CAP SCREW HEX HEAD M10 x 1.50 x 120mm

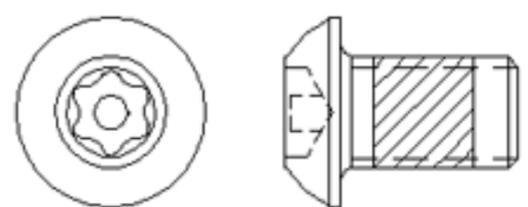


200001883  
CAP SCREW HEX HEAD M10 x 1.50 x 130mm



200000792  
CAP SCREW HEX HEAD M10 x 1.50 x 150mm

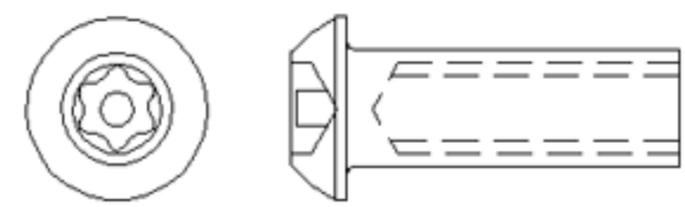




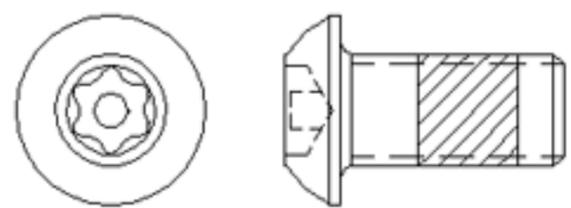
200002010  
SCREW MACH BUTTONHEAD M10 x 1.50 x 16mm



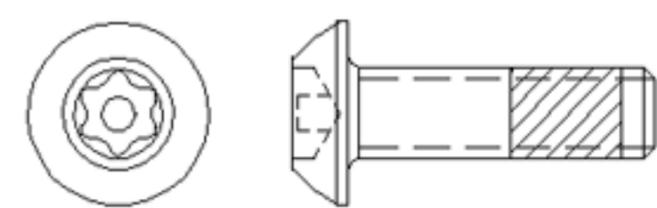
200002150  
SCREW MACH BUTTONHEAD M10 x 1.50 x 55mm



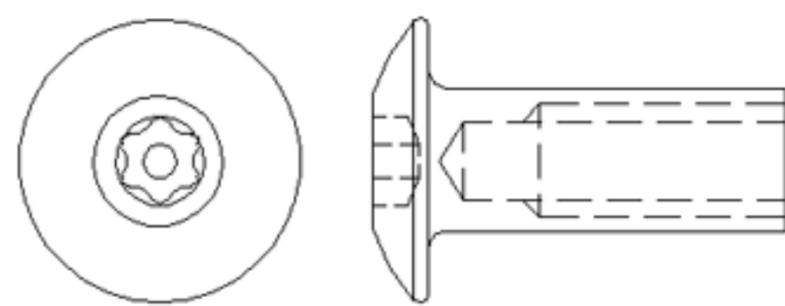
200002145  
BOLT M8 x 1.25 FEMALE 10.3 x 30mm



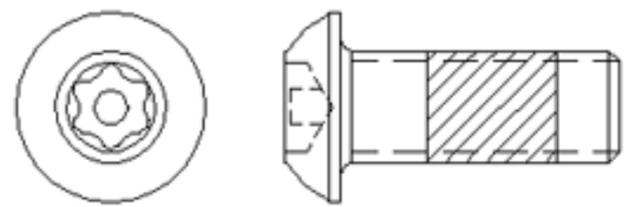
200002014  
SCREW MACH BUTTONHEAD M10 x 1.50 x 20mm



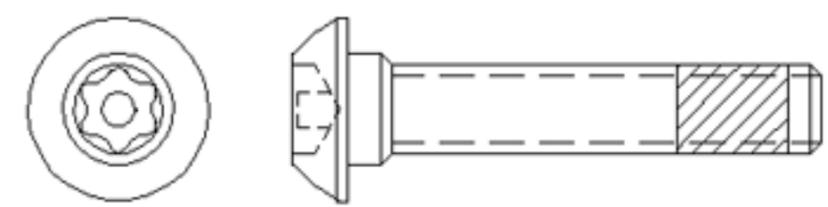
200002133  
BOLT M8 x 1.25 MALE 27.5mm



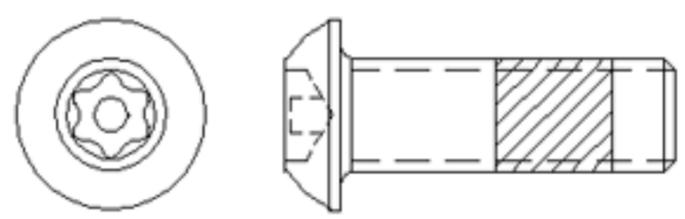
200001954  
BARREL NUT M10 X 1.50 (12.70 DIA x 32mm)



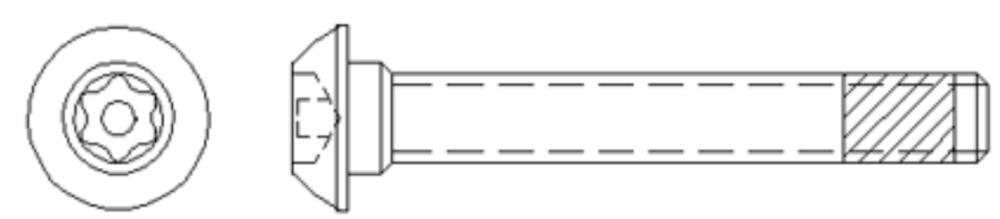
200002018  
SCREW MACH BUTTONHEAD M10 x 1.50 x 25mm



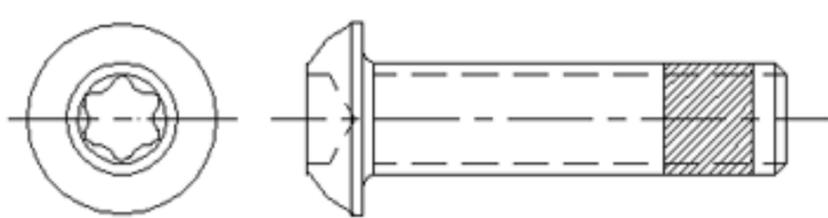
200002138  
BOLT M8 x 1.25 MALE 42.5mm



200002030  
SCREW MACH BUTTONHEAD M10 x 1.50 x 30mm

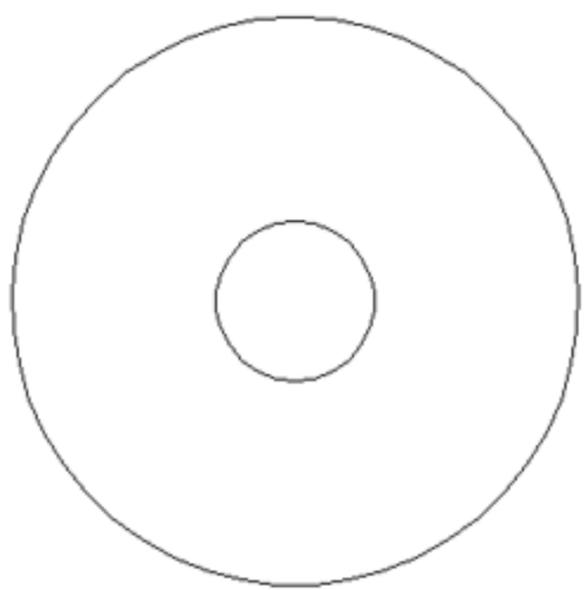


200002142  
BOLT M8 x 1.25 MALE 57.5mm

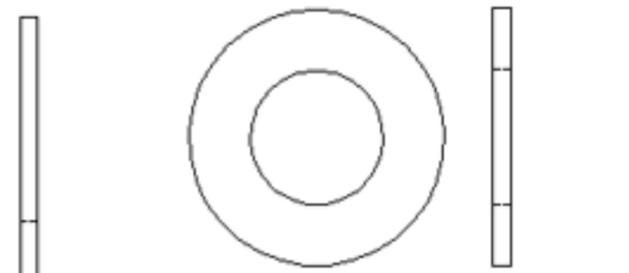


200097726  
SCREW MACH BUTTONHEAD M10 x 1.50 x 38mm

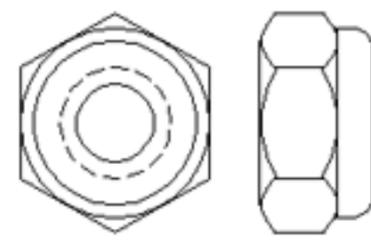
AUTHORIZED BY:  
BARRY WILFONG 15FEB12



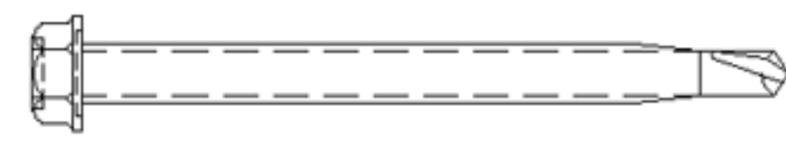
200002113  
WASHER FLAT M12 (51 x 14.5 x 2mm)



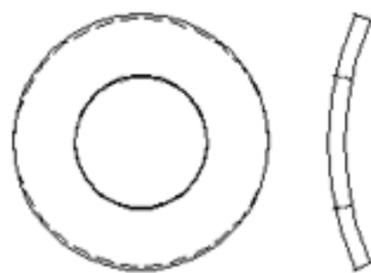
200002079  
WASHER FLAT M11 23 x 12 X 1.6mm



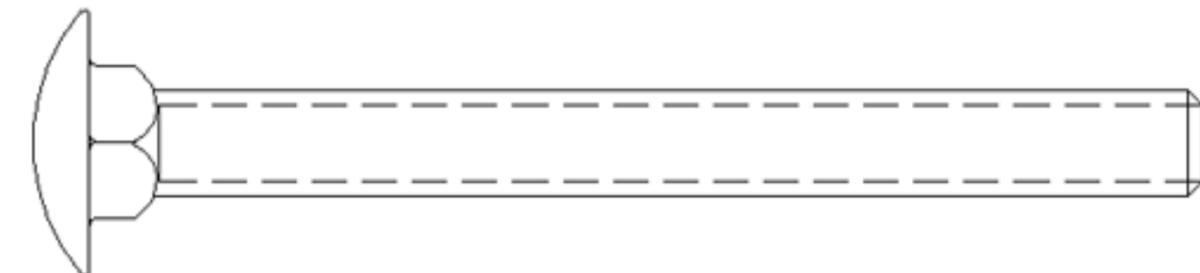
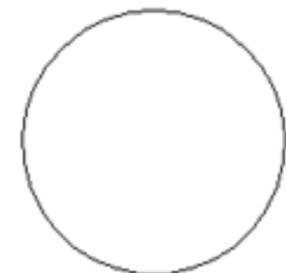
200001945  
NUT LOCK HEX NYLON INSERTED M10 x 1.5



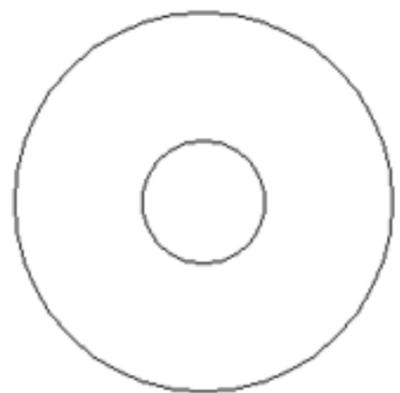
200002002  
SCREW DRILL HEX HEAD M6 .3 x 1.81 x 65mm



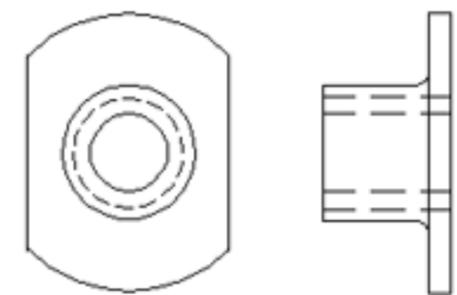
200008483  
WASHER BOWED M11 23.5 x 11.7 x 1.57 mm



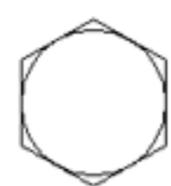
200001810  
BOLT CARRIAGE M10 x 1.50 x 100mm



200002096  
WASHER FLAT M10 34OD x 11ID x 3 mm THK



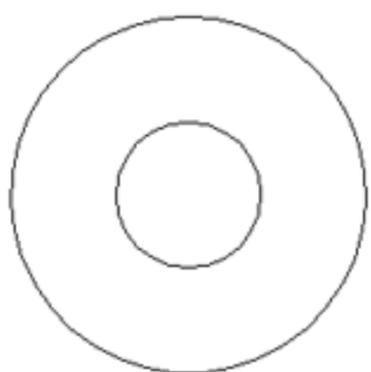
200001966  
T-NUT SLAB BASE M10 x 1.50 x 9.5mm



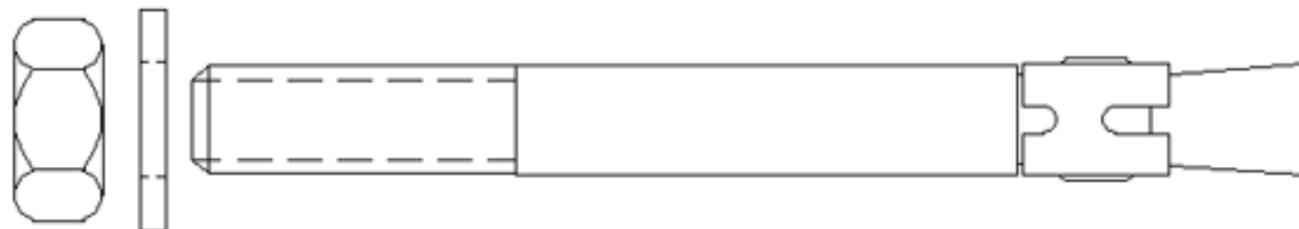
200001826  
CAP SCREW HEX HEAD M8 X 1.25 X 75mm



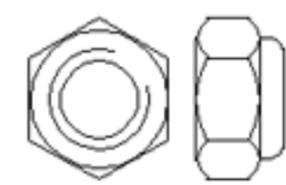
200001986  
SCREW U-DRIVE ROUND HEAD M5 x 16mm



200002100  
WASHER FLAT M11 32OD x 13ID x 2 mm THK



200001776  
ANCHOR CONCRETE WEDGE M10 x 1.5 x 100mm



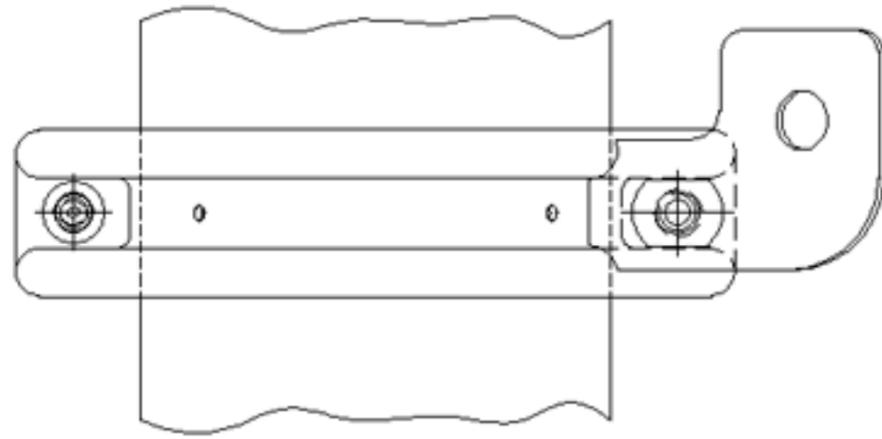
200001934  
NUT LOCK HEX NYLON INSERTED M8 x 1.25



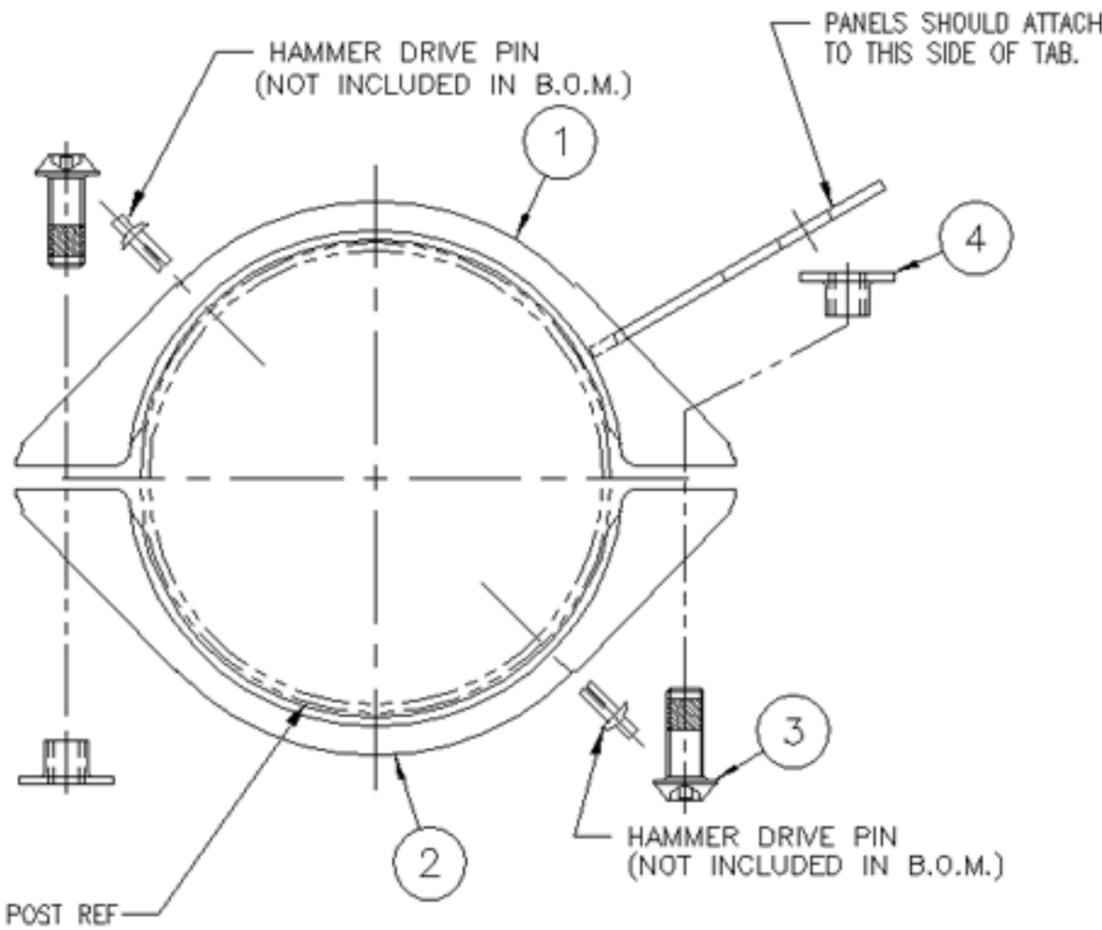
# CLAMP HI-LO TAB F/KB

# CLAMP HI-LO TAB F/KB

200079200



**NOTE:**  
TAB WILL BE DIRECTED UP (AS SHOWN) ON ONE SIDE OF THE PANEL AND DOWN ON THE OTHER SIDE OF THE PANEL



CLAMP HI-LO TAB F/KB			
Item	Dwg Ref	Description	Qty.
1	-	CLAMP HI-LO TAB F/ KB	1
2	-	CLAMP HALF W/O WELDED ATTACHMENT	1
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	2
4	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	2

### Specifications

#### CLAMP

MATERIAL: STAMPED SHST  
COLOR: AS SELECTED FROM STD. COLOR RANGE.  
FINISH: ELECTROSTATICALLY APPLIED POLYESTER DRY POWDER COAT

#### FASTENERS

FINISH: STAINLESS STEEL.

### Application

- FOR USE WHEN HIGH-LOW CLAMP CONFIGURATION IS NEEDED TO ATTACH PANELS.

### Maintenance

- CHECK ALL HARDWARE  
- TOUCH UP ANY MARRED PAINT SURFACE

### Installation Instructions

1. POSITION THE CLAMP HALVES AROUND THE POST AND LOOSELY CONNECT HALVES TOGETHER WITH THE HARDWARE SHOWN. CLAMPS SHOULD BE ORIENTED SO THAT PANELS WILL ATTACH TO THE TAB FACE SHOWN IN THE DETAIL.
2. MOVE THE CLAMP ASSEMBLY ALONG THE POST UNTIL IT LINES UP WITH THE LOCATION THAT IT WILL BE CONNECTED TO THE PANEL. COMPLETE THE PANEL CONNECTION AS SPECIFIED IN THE INDIVIDUAL PANEL INSTRUCTION.
3. LEVEL THE CLAMP ASSEMBLY AROUND THE POST AND TIGHTEN CLAMP HARDWARE.
4. AS A LAST STEP IN THE PLAYGROUND INSTALLATION, INSTALL HAMMER DRIVE PINS. LOCATE ONE OF THE EXISTING SMALL HOLES IN A CLAMP HALF. (EITHER HOLE CAN BE USED, USE THE MOST ACCESSIBLE.) THIS WILL BE THE DRILLING SITE FOR THE HAMMER DRIVE PIN. DRILL A 5mm (3/16") DIA. HOLE INTO THE POST. INSERT THE HAMMER DRIVE PIN INTO THE HOLE. TAP THE CENTER CORE PIN INWARD UNTIL IT IS FLUSH WITH THE OUTER PIN SURFACE. BE CAREFUL NOT TO MAR THE PAINTED SURFACES. REPEAT ON THE OTHER CLAMP HALF. HAMMER DRIVE PINS ARE SHIPPED SEPERATELY FROM CLAMP HARDWARE.

NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

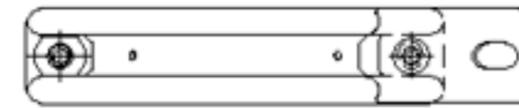
KB000009A

AUTHORIZED BY:

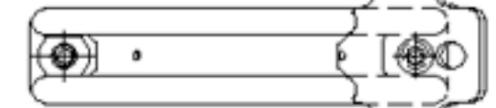
*[Signature]* 03AUG99

PANEL OR WING CLAMP

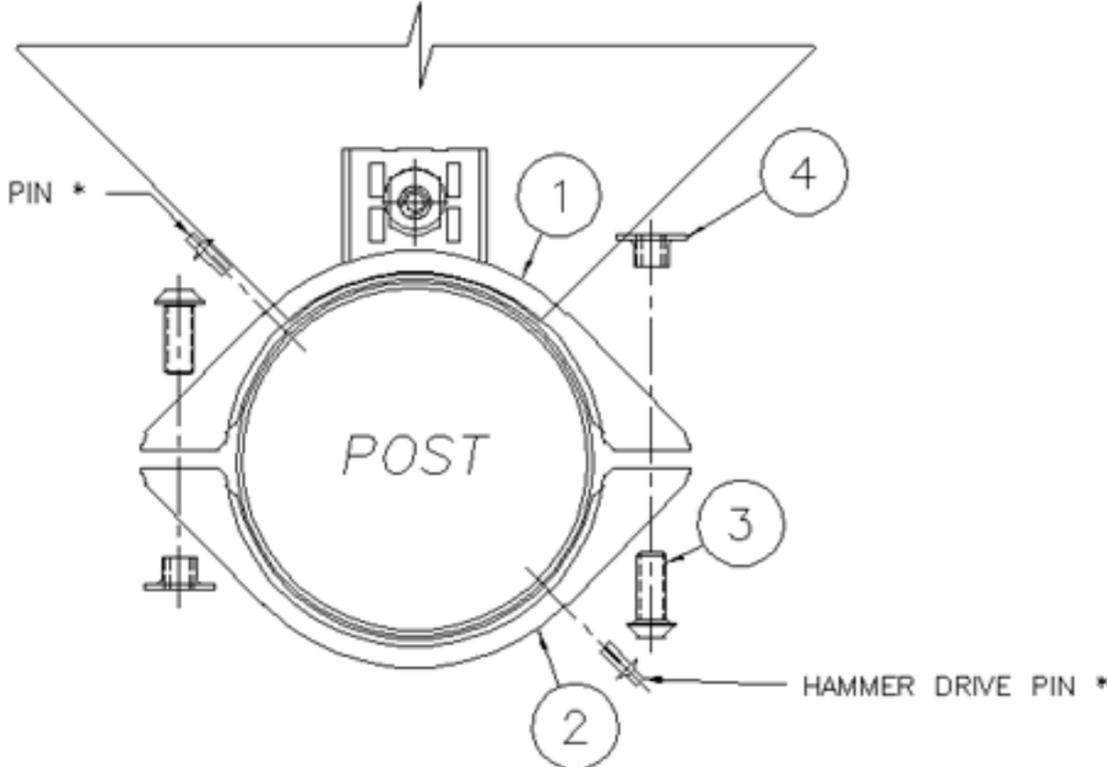
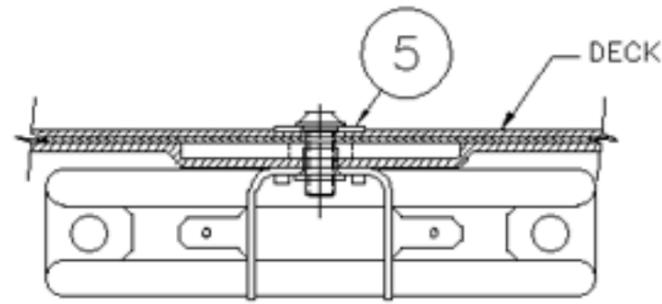
ITEM	CODE	DESCRIPTION	QTY
1	-	CLAMP HALF W/TAB F/PANEL MT. ZN	1
-OR-	-	CLAMP HALF W/TAB F/KB WING CLAMP	1
2	-	CLAMP HALF W/O WELDED ATTACHMENT ZN	1
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	2
4	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	2



REF: PANEL CLAMP

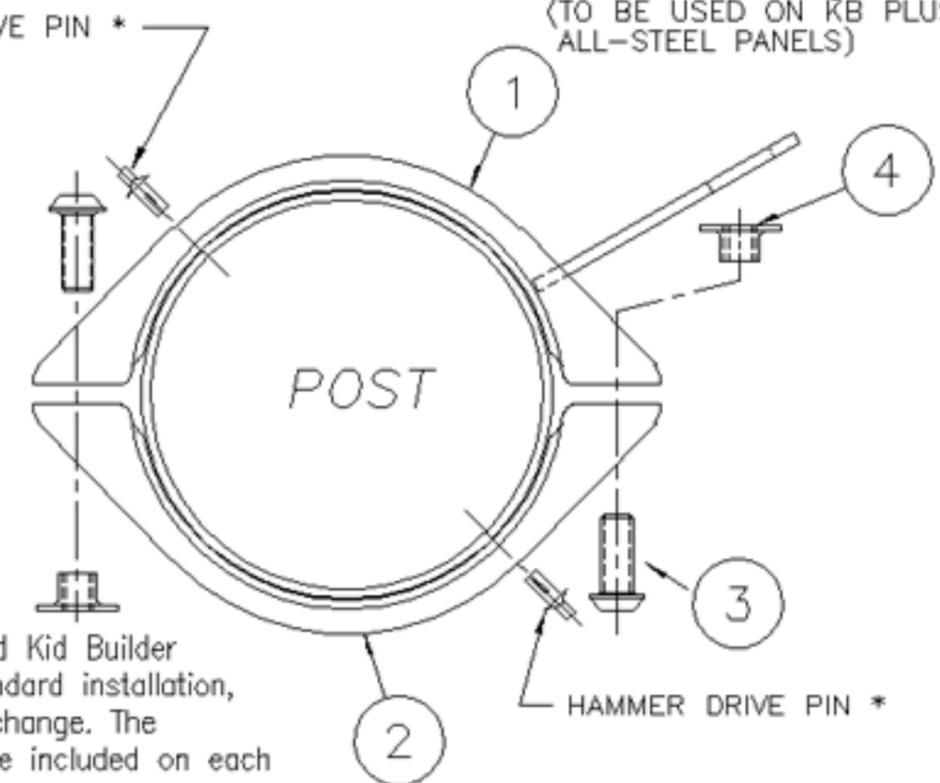


REF: WING CLAMP  
(TO BE USED ON KB PLUS ALL-STEEL PANELS)



DECK CLAMP

ITEM	CODE	DESCRIPTION	QTY
1	-	CLAMP HALF W/NEW DECK ATTACHMENT ZN	1
2	-	CLAMP HALF W/O WELDED ATTACHMENT ZN	1
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	3
4	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	3
5	200002100	WASHER FLAT M11 320D X 131D X 2 MM THK	1



The following details illustrate the assembly of all standard Kid Builder Clamps. If a component requires an exception to the standard installation, the instruction page for that component will reflect that change. The hardware used to attach a Panel Clamp to a panel will be included on each component page.

1. Each Clamp half will have a small hole and a large hole on opposite sides. The Larger hole accommodates the Tee Nuts.
2. Always make sure the event is at the proper height and the clamps are level before Hammer Drive Pins are installed.
3. There will also be two smaller pilot holes on each clamp half. Pick the most accessible hole and drill a 5mm dia. hole through the clamp half and the post. Tap the pins in with a rubber mallet or hammer. Be careful not to mar paint surfaces. Also, all Rail Clamp attachments will have pilot holes for hammer drive pin installation.

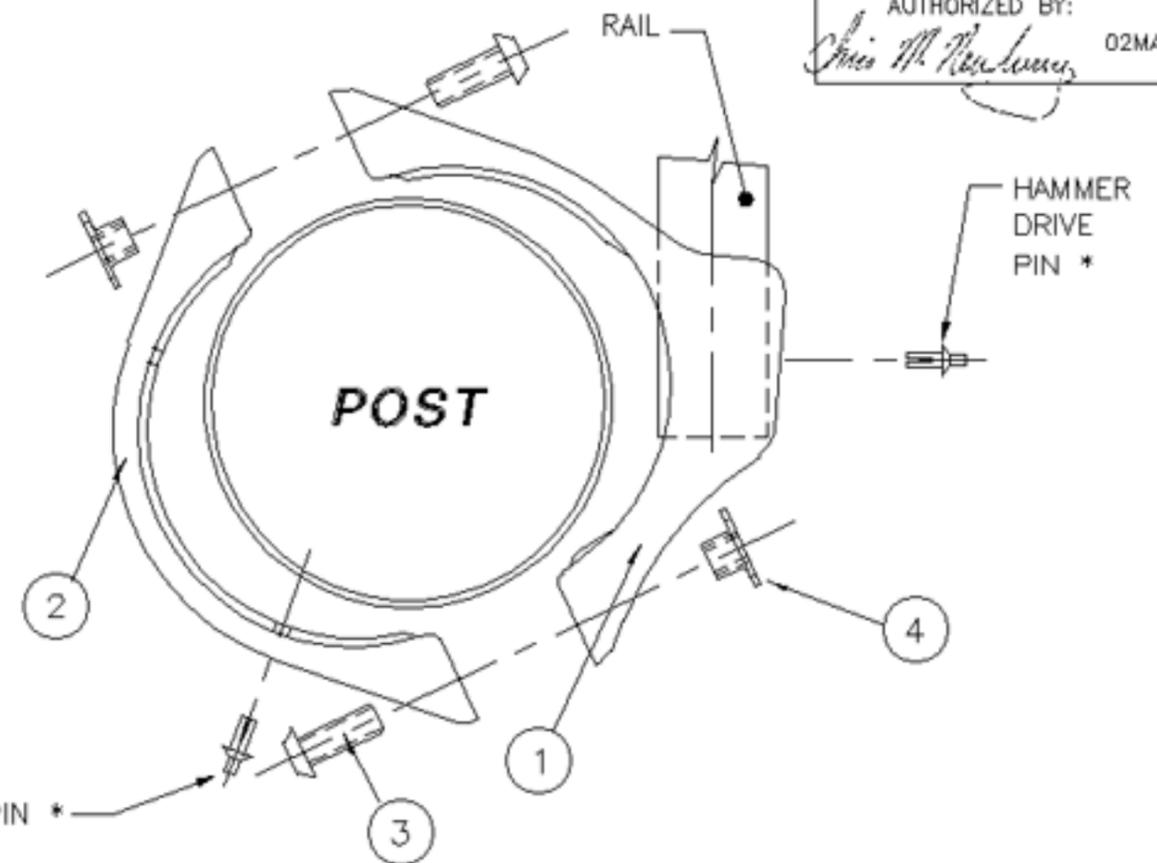
\* Hammer drive pins are not included in the clamp hardware bag. They are located in a separate bag in the hardware kit.

AUTHORIZED BY:  
*Chris M. Newberry* 02MAR01

The following details illustrate the assembly of all standard Kid Builder Clamps. If a component requires an exception to the standard installation, the instruction page for that component will reflect that change.

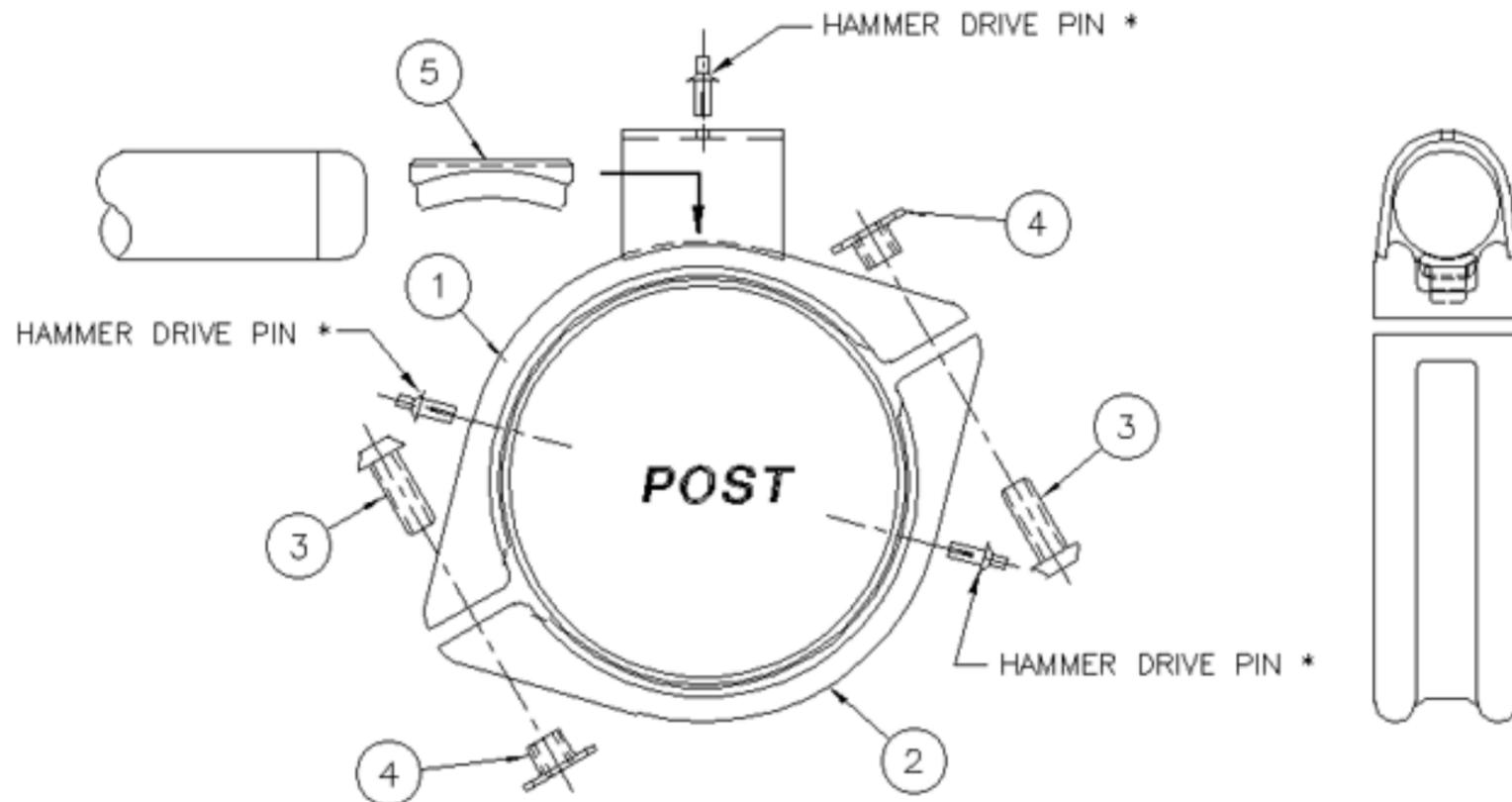
1. Each Clamp half will have a small hole and a large hole on opposite sides. The Larger hole accommodates the Tee Nuts.
2. Always make sure the event is at the proper height and the clamps are level before Hammer Drive Pins are installed.
3. There will also be two smaller pilot holes on each clamp half. Pick the most accessible hole and drill a 5mm dia. hole through the clamp half and the post. Tap the pins in with a rubber mallet or hammer. Be careful not to mar paint surfaces. Also, all Rail Clamp attachments will have pilot holes for hammer drive pin installation.

\* Hammer drive pins are not included in the clamp hardware bag. They are located in a separate bag in the hardware kit.



## 30 DEG. RAIL CLAMP W/ WEDGE

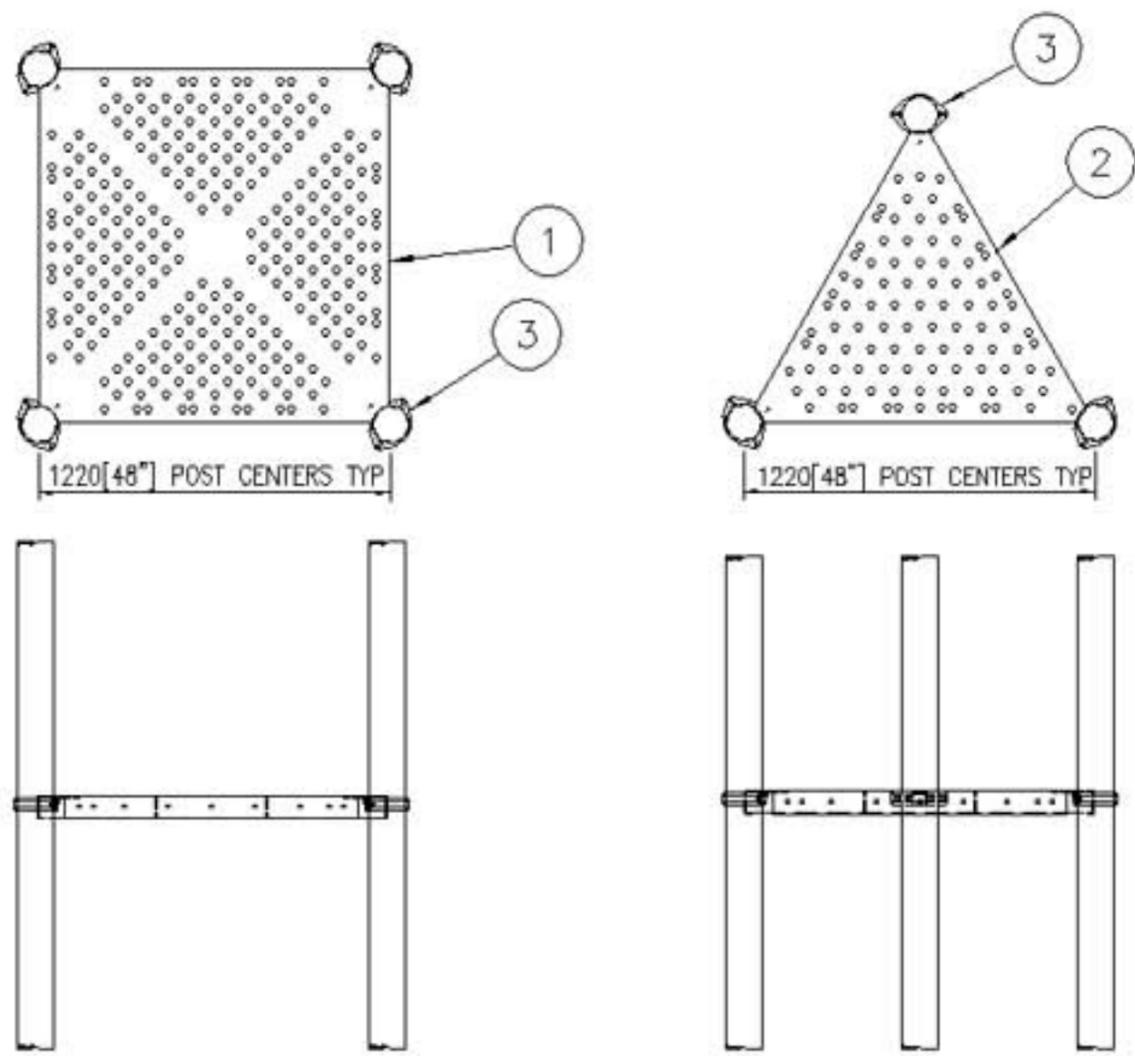
ITEM	DRG REF	DESCRIPTION	QTY
1	-	CLAMP HALF W/ATT. F/RAILS ZN 30 DEG.	1
2	-	CLAMP HALF W/O WELDED ATTACHMENT ZN	1
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25 MM	2
4	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5 MM	2
5	200000733	SPACER WEDGE ALUM. F/KB CLAMP F/SLOT	1



## HOODED RAIL CLAMP

ITEM	DRG. REF	DESCRIPTION	QTY
1	-	CLAMP HALF W/HOODED RAIL ATTACHMENT ZN	1
2	-	CLAMP HALF W/O WELDED ATTACHMENT ZN	1
3	200002018	SCREW MACH. BUTTONHEAD M10 X 1.5 X 25mm	2
4	200001966	T-NUT SLAB BASE M10 X 1.5 X 9.5mm	2

AUTHORIZED BY:  
*Eric Clinton* 18MAR11



**SQUARE DECK 11 GA.**  
200202483 (SMALL HOLE DECK 200202503)

Item	Code	Description	Qty.
1A	-	DECK SQUARE KB W/27 MM HOLES	1
1B	-	DECK SQUARE KB SMALL HOLE	1
3	-	* KB DECK CLAMP	4

**TRI-DECK 11 GA.**  
200202485 (SMALL HOLE DECK 200202504)

Item	Code	Description	Qty.
2A	-	DECK SQUARE KB W/27 MM HOLES	1
2B	-	DECK TRIANGLE KB SMALL HOLE	1
3	-	* KB DECK CLAMP	3

**ADD-ON DECK HARDWARE BAG**  
200007704

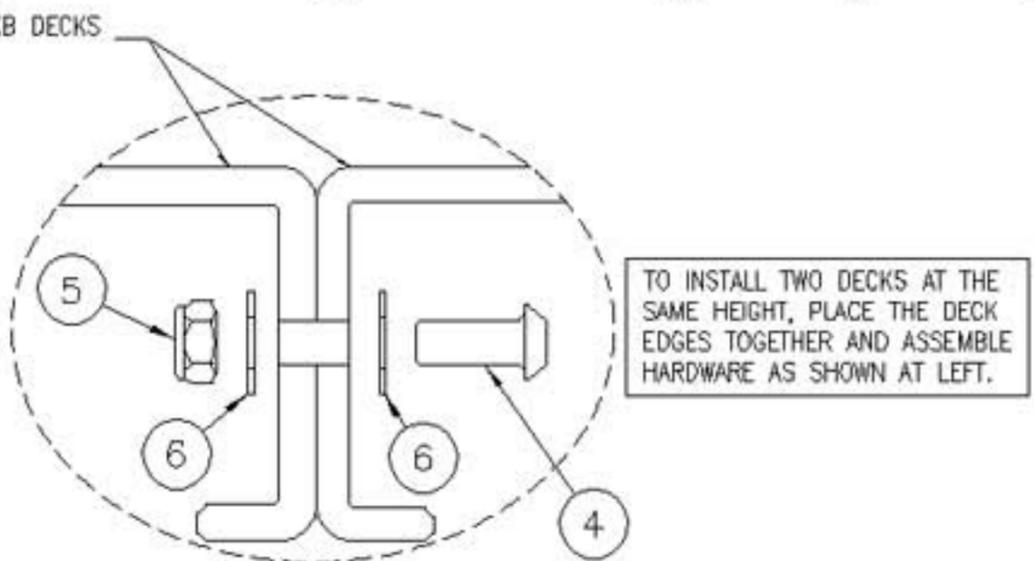
Item	Code	Description	Qty.
4	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	7
5	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	7
6	200002079	WASHER FLAT M11 X 12 X 1.6MM	14

**Application**  
AGE GROUPS (2-12 YEAR OLDS)

- Decks are considered platform events and can be used by all ages if installed at an appropriate height for the particular age group.
- A deck above 508mm [20"] must have an enclosure for ages 2-5 max. height difference between adjacent decks is 305mm[12"] without alternative means of access.
- A deck above 762mm[30"] must have an enclosure for ages 5 to 12 max. height difference between adjacent decks is 406mm[16"] without alternative means of access.

**Installation Instructions**

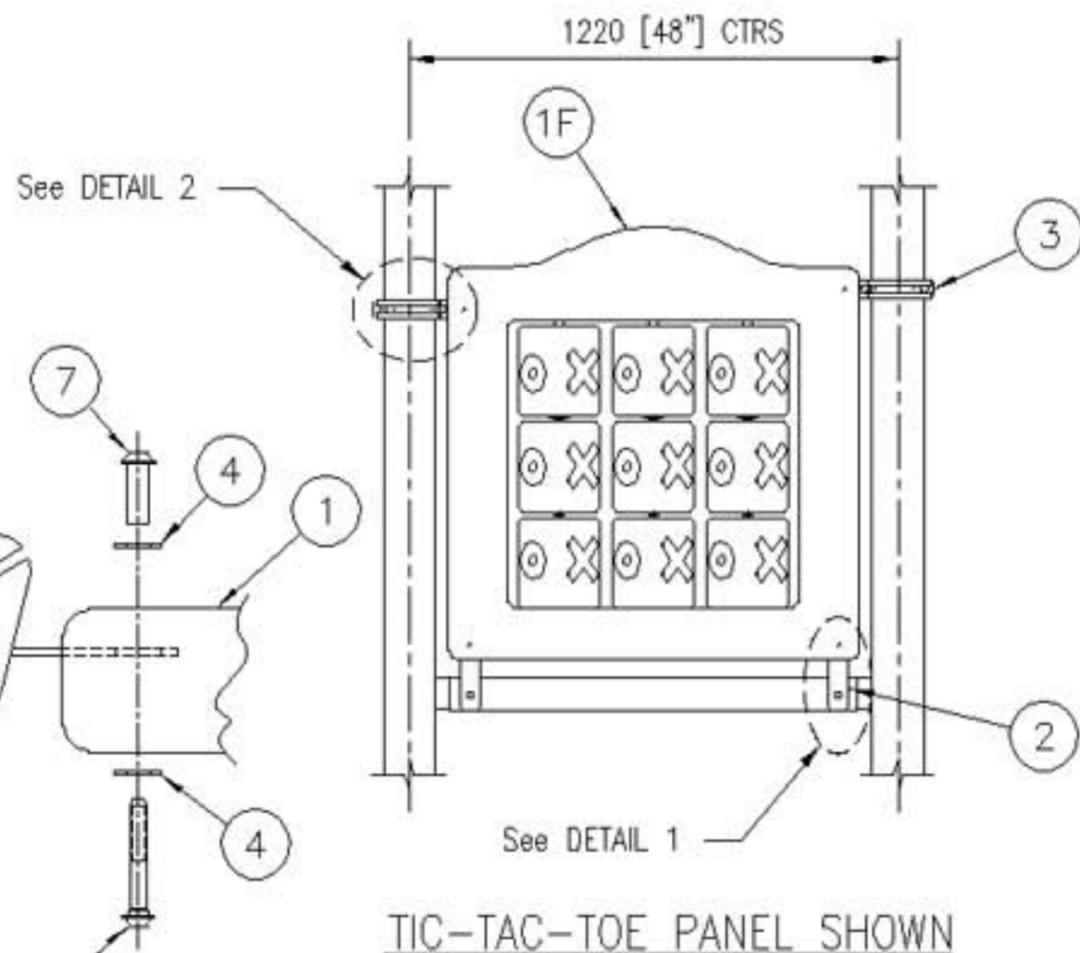
1. Position posts to proper locations or footing holes as specified by the playground layout drawing and the footing details in the front of this manual.
2. Measure and mark the height of each clamp on posts. The top of the clamp will be 13mm[1/2"] below the deck. **IMPORTANT:** When marking posts, allow for finished grade and resilient surfacing as specified in the footing details.
3. Fasten \*clamps to posts. (SEE DECK CLAMP DETAILS IN THE FRONT OF THE KB MANUAL.) Do NOT drill for hammer drive pins yet.
4. Attach deck to clamps. Re-check levelness and deck height.
5. Tighten all hardware and drive pin clamps to posts. If installing additional decks at the same height, always install the first deck by attaching it to posts with deck clamps in all locations. Additional decks cannot share clamps with the first deck and will have to be assembled together mechanically as shown in detail. In all other locations where clamp space is available on the post, attach the deck with clamps.
6. Plumb and level decks and posts. If surface mounting, anchor bolt posts to concrete. If installing inground, make sure posts are at the proper height and complete footings.
7. After concrete has cured, backfill with earth and install ground cover.



**NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS**



AUTHORIZED BY: 23APR14  
*Chris M. McNamee*



- TIC-TAC-TOE PANEL-----200007045
- SIGN PANEL----- (WILL VARY)
- SPELLING PANEL-----200007047
- McD HAPPY CYLINDERS-----200124380
- SAFETY PANEL-----200007049
- MATH PANEL-----200007046
- ANIMAL PANEL-----200007048
- McD CHARACTER CYLINDERS-----200124378
- PANEL ARCH FUN W/ WORDS-----200200305
- PANEL ARCH SEAL/OTR/WALRUS DKMT-----200203242
- PANEL ARCH WHALE/DOLP/PENG DKMT-----200203243

Item	Code	Description	Qty.
1A	-	PANEL ARCH SAFETY DKMT	1
1B	-	PANEL ARCH ANIMAL DKMT	1
1C	-	PANEL ARCH SPELL DKMT	1
1D	-	PANEL ARCH MATH DKMT	1
1E	-	PANEL ARCH SIGN DKMT	1
1F	-	PANEL ARCH TIC TAC TOE DKMT	1
1G	-	PANEL ARCH FUN W/ WORDS DKMT	1
1H	-	PANEL ARCH SEAL/OTR/WALRUS DKMT	1
1J	-	PANEL ARCH WHALE/DOLP/PENG DKMT	1
2	200117149	TAB F/PANEL MOUNTING F/KB BRN	2
3	-	KB PANEL CLAMP	2

**HWDR BAG F/KB PANELS (MM)  
200007614**

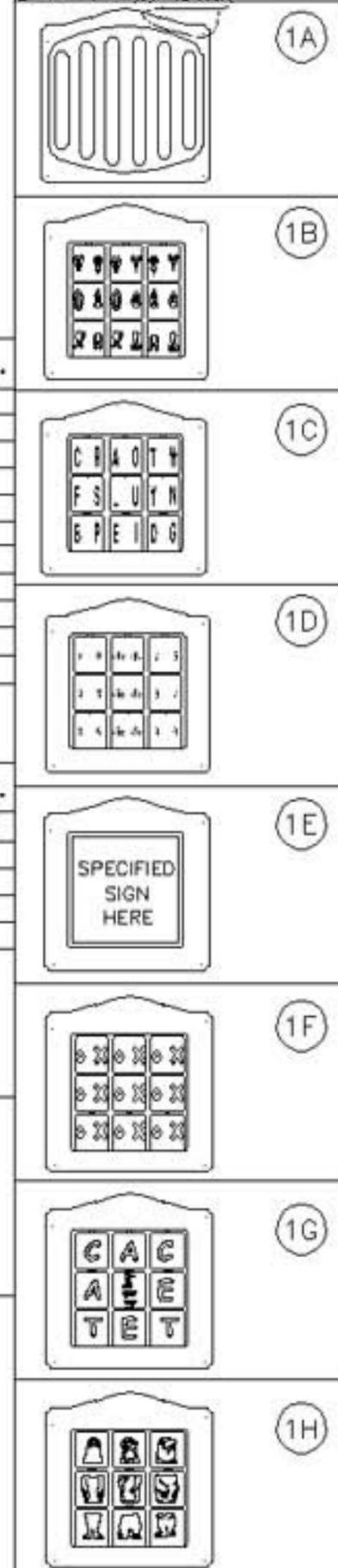
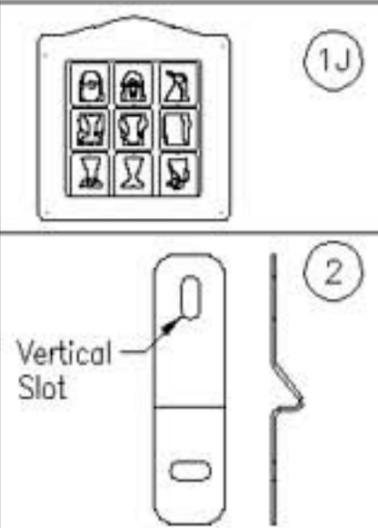
Item	Code	Description	Qty.
4	200002079	WASHER FLAT M11 23 X 12 X 1.6	12
5	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25 MM	2
6	200002142	BOLT M8 X 1.25 MALE 57.5 MM	4
7	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30 MM	4
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	2

**Application**

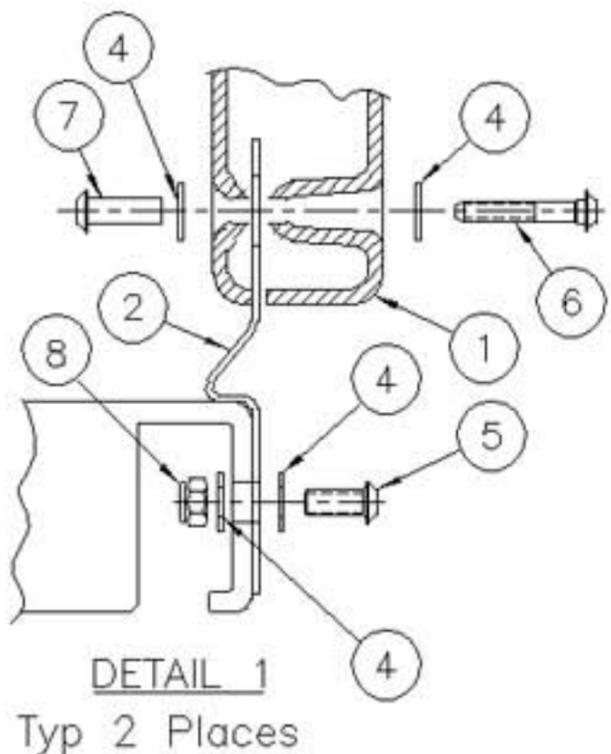
- Maximum deck height before an enclosure must be present:
- 2 - 12 years = 508mm [20"]
- 5 - 12 years = 762mm [30"]

**Installation Instructions**

1. Slip deck mounting tabs into pre-cut slot on the underside of the panel and attach as shown in DETAIL 1. (NOTE: vertical slot in tab should be inserted into panel off centered to the outside.)
2. Loosely assemble panel clamps to the panel as shown in DETAIL 2.
3. Loosely attach deck mounting tabs to deck edge as shown in DETAIL 1.
4. Assemble the panel clamps to the post. (Refer to front of manual for clamp installation detail.)
5. Tighten all hardware.

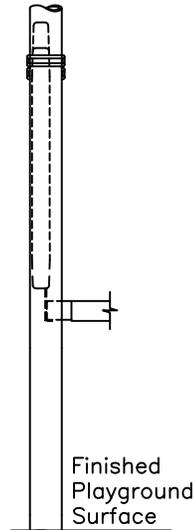
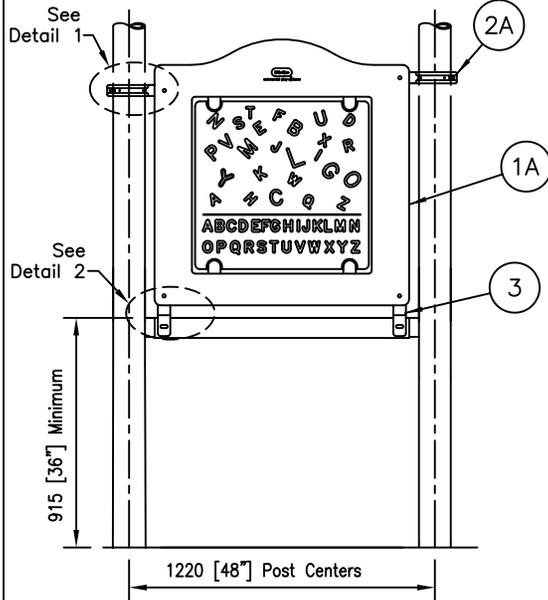


DETAIL 2  
Typ 2 Places

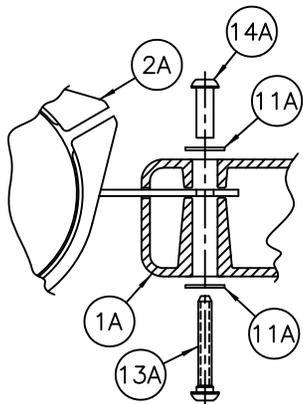


AUTHORIZED BY: 07NOV17  
Melissa Holliday

## Alphabet Panel Arch Top-Post & Deck Mount

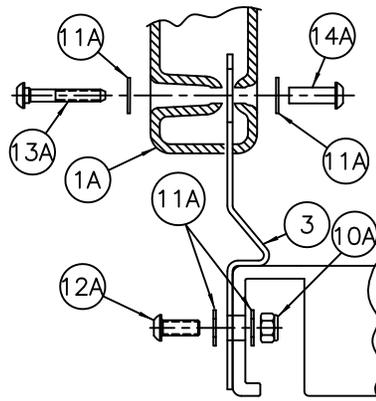


### Post Mount



DETAIL 1  
Typ 2 Places

### Deck Mount



DETAIL 2  
Typ 2 Places

NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

## PANEL ARCH TOP ALPHABET KB DECK MOUNT 200024992

Item	Code	Description	Qty.
1A	908615P	PANEL ARCH ALPHABET KB DKMT	1
2A	909321P	PANEL CLAMP F/KB PANELS	2
3	910452P	TAB F/PANEL MOUNTING F/KB (2001)	2
4A	HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
5	HW7614-1	HRDW PKG KB PANELS 1/2	1
6	HW7614-2	HRDW PKG KB PANELS 2/2	1

## HRDW PKG F/2SETS O/CLAMPS S1/1 HW2CLMPSET-1

Item	Code	Description	Qty.
7A	200002018	SCREW MACH BUTTONHEAD M10 X 1.5 X 25MM	4
8A	200000797	HAMMER DRIVE PIN 4.7 X 11.1MM	4
9A	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	4

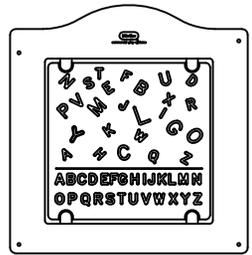
## HRDW PKG KB PANELS M1/2 - HW7614-1 HRDW PKG KB PANELS 2/2 - HW7614-2

Item	Code	Description	Qty.
10A	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	2
11A	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	12
12A	200002018	SCREW MACH BUTTONHEAD M10 X 1.5 X 25MM	2
13A	200002142	BOLT M8 X 1.25 MALE 57.5MM	4
14A	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30MM	4

### Application

- Age groups: 2 - 12 year olds
- Maximum deck height before an enclosure must be present:  
2 - 12 years old = 508mm [20"]  
5 - 12 years old = 762mm [30"]
- Flat top panels are for below deck use only
- Flat top panels will fit below decks 915mm [36"] and 1220mm [48"] or higher
- Make sure there is not an entrapment gap between the deck and the panel of 89mm - 229mm [3-1/2" - 9"]

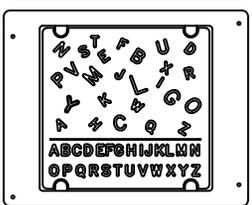
NOTE: BOM CONTINUED ON SHEET 3



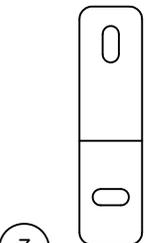
1A Two Side Slots, Two Bottom Slots



1B Four Side Slots



1C



3

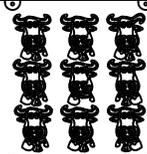
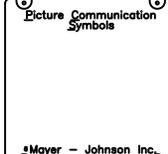
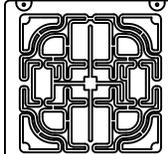
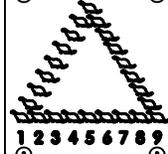
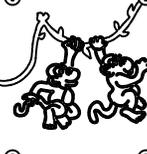


# ACTIVITY PANELS

AUTHORIZED BY: 07NOV17  
Melissa Holliday

KB600006H

Sheet 2 of 3

	<table border="1"> <thead> <tr> <th>KMAT #</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>200200070</td> <td>KB PANEL ARCH "MOO MATCH" DKMT</td> </tr> <tr> <td>200200071</td> <td>KB PANEL ARCH "MOO MATCH" PTMT</td> </tr> <tr> <td>200200072</td> <td>KB PANEL FLAT TOP "MOO MATCH"</td> </tr> </tbody> </table>	KMAT #	Description	200200070	KB PANEL ARCH "MOO MATCH" DKMT	200200071	KB PANEL ARCH "MOO MATCH" PTMT	200200072	KB PANEL FLAT TOP "MOO MATCH"		<table border="1"> <thead> <tr> <th>KMAT #</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>200200079</td> <td>KB PANEL ARCH "PICTURE PUZZLE"DKMT</td> </tr> <tr> <td>200200080</td> <td>KB PANEL ARCH "PICTURE PUZZLE"PTMT</td> </tr> <tr> <td>200200081</td> <td>KB PANEL FLAT TOP "PICUTRE PUZZLE"</td> </tr> </tbody> </table>	KMAT #	Description	200200079	KB PANEL ARCH "PICTURE PUZZLE"DKMT	200200080	KB PANEL ARCH "PICTURE PUZZLE"PTMT	200200081	KB PANEL FLAT TOP "PICUTRE PUZZLE"		<table border="1"> <thead> <tr> <th>KMAT #</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>200200212</td> <td>PANEL ARCH CUSTOM "PCS" KB DKMT</td> </tr> <tr> <td>200200214</td> <td>PANEL FLAT TOP CUSTOM "PCS" KB</td> </tr> <tr> <td>200200213</td> <td>PANEL ARCH CUSTOM "PCS" KB PTMT</td> </tr> </tbody> </table>	KMAT #	Description	200200212	PANEL ARCH CUSTOM "PCS" KB DKMT	200200214	PANEL FLAT TOP CUSTOM "PCS" KB	200200213	PANEL ARCH CUSTOM "PCS" KB PTMT
KMAT #	Description																												
200200070	KB PANEL ARCH "MOO MATCH" DKMT																												
200200071	KB PANEL ARCH "MOO MATCH" PTMT																												
200200072	KB PANEL FLAT TOP "MOO MATCH"																												
KMAT #	Description																												
200200079	KB PANEL ARCH "PICTURE PUZZLE"DKMT																												
200200080	KB PANEL ARCH "PICTURE PUZZLE"PTMT																												
200200081	KB PANEL FLAT TOP "PICUTRE PUZZLE"																												
KMAT #	Description																												
200200212	PANEL ARCH CUSTOM "PCS" KB DKMT																												
200200214	PANEL FLAT TOP CUSTOM "PCS" KB																												
200200213	PANEL ARCH CUSTOM "PCS" KB PTMT																												
	<table border="1"> <thead> <tr> <th>KMAT #</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>200200067</td> <td>KB PANEL ARCH "PCS SYMBOLS" DKMT</td> </tr> <tr> <td>200200068</td> <td>KB PANEL ARCH "PCS SYMBOLS" PTMT</td> </tr> <tr> <td>200200069</td> <td>KB PANEL FLAT TOP "PCS SYMBOLS"</td> </tr> </tbody> </table>	KMAT #	Description	200200067	KB PANEL ARCH "PCS SYMBOLS" DKMT	200200068	KB PANEL ARCH "PCS SYMBOLS" PTMT	200200069	KB PANEL FLAT TOP "PCS SYMBOLS"		<table border="1"> <thead> <tr> <th>KMAT #</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>200200085</td> <td>KB PANEL ARCH "ANIMAL MATCH"DKMT</td> </tr> <tr> <td>200200086</td> <td>KB PANEL ARCH "ANIMAL MATCH"PTMT</td> </tr> <tr> <td>200200087</td> <td>KB PANEL FLAT TOP "ANIMAL MATCH"</td> </tr> </tbody> </table>	KMAT #	Description	200200085	KB PANEL ARCH "ANIMAL MATCH"DKMT	200200086	KB PANEL ARCH "ANIMAL MATCH"PTMT	200200087	KB PANEL FLAT TOP "ANIMAL MATCH"		<table border="1"> <thead> <tr> <th>KMAT #</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>200024993</td> <td>PANEL ARCH TOP MAZEKB DECK MOUNT</td> </tr> <tr> <td>200024848</td> <td>PANEL FLAT TOP MAZE KB</td> </tr> <tr> <td>200025043</td> <td>PANEL ARCH MAZE KB POST MOUNT</td> </tr> </tbody> </table>	KMAT #	Description	200024993	PANEL ARCH TOP MAZEKB DECK MOUNT	200024848	PANEL FLAT TOP MAZE KB	200025043	PANEL ARCH MAZE KB POST MOUNT
KMAT #	Description																												
200200067	KB PANEL ARCH "PCS SYMBOLS" DKMT																												
200200068	KB PANEL ARCH "PCS SYMBOLS" PTMT																												
200200069	KB PANEL FLAT TOP "PCS SYMBOLS"																												
KMAT #	Description																												
200200085	KB PANEL ARCH "ANIMAL MATCH"DKMT																												
200200086	KB PANEL ARCH "ANIMAL MATCH"PTMT																												
200200087	KB PANEL FLAT TOP "ANIMAL MATCH"																												
KMAT #	Description																												
200024993	PANEL ARCH TOP MAZEKB DECK MOUNT																												
200024848	PANEL FLAT TOP MAZE KB																												
200025043	PANEL ARCH MAZE KB POST MOUNT																												
	<table border="1"> <thead> <tr> <th>KMAT #</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>200200073</td> <td>KB PANEL ARCH "SIGN LANGUAGE" DKMT</td> </tr> <tr> <td>200200074</td> <td>KB PANEL ARCH "SIGN LANGUAGE" PTMT</td> </tr> <tr> <td>200200075</td> <td>KB PANEL FLAT TOP "SIGN LANGUAGE"</td> </tr> </tbody> </table>	KMAT #	Description	200200073	KB PANEL ARCH "SIGN LANGUAGE" DKMT	200200074	KB PANEL ARCH "SIGN LANGUAGE" PTMT	200200075	KB PANEL FLAT TOP "SIGN LANGUAGE"		<table border="1"> <thead> <tr> <th>KMAT #</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>200200105</td> <td>KB PANEL ARCH "LICENSE PLATE" DKMT</td> </tr> <tr> <td>200200106</td> <td>KB PANEL ARCH "LICENSE PLATE" PTMT</td> </tr> <tr> <td>200200107</td> <td>KB PANEL FLAT TOP "LICENSE PLATE"</td> </tr> </tbody> </table>	KMAT #	Description	200200105	KB PANEL ARCH "LICENSE PLATE" DKMT	200200106	KB PANEL ARCH "LICENSE PLATE" PTMT	200200107	KB PANEL FLAT TOP "LICENSE PLATE"		<table border="1"> <thead> <tr> <th>KMAT #</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>200024991</td> <td>PANEL ARCH TP CT.THE DINOSAUR KB DKMT</td> </tr> <tr> <td>200024846</td> <td>PANEL FLAT TOP COUNTTHE DINOSAUR KB</td> </tr> <tr> <td>200025039</td> <td>PANEL ARCH COUNT THE DINOSAUR KB PTMT</td> </tr> </tbody> </table>	KMAT #	Description	200024991	PANEL ARCH TP CT.THE DINOSAUR KB DKMT	200024846	PANEL FLAT TOP COUNTTHE DINOSAUR KB	200025039	PANEL ARCH COUNT THE DINOSAUR KB PTMT
KMAT #	Description																												
200200073	KB PANEL ARCH "SIGN LANGUAGE" DKMT																												
200200074	KB PANEL ARCH "SIGN LANGUAGE" PTMT																												
200200075	KB PANEL FLAT TOP "SIGN LANGUAGE"																												
KMAT #	Description																												
200200105	KB PANEL ARCH "LICENSE PLATE" DKMT																												
200200106	KB PANEL ARCH "LICENSE PLATE" PTMT																												
200200107	KB PANEL FLAT TOP "LICENSE PLATE"																												
KMAT #	Description																												
200024991	PANEL ARCH TP CT.THE DINOSAUR KB DKMT																												
200024846	PANEL FLAT TOP COUNTTHE DINOSAUR KB																												
200025039	PANEL ARCH COUNT THE DINOSAUR KB PTMT																												
	<table border="1"> <thead> <tr> <th>KMAT #</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>200200076</td> <td>KB PANEL ARCH "SOLAR SYSTEM"DKMT</td> </tr> <tr> <td>200200077</td> <td>KB PANEL ARCH "SOLAR SYSTEM"PTMT</td> </tr> <tr> <td>200200078</td> <td>KB PANEL FLAT TOP "SOLAR SYSTEM"</td> </tr> </tbody> </table>	KMAT #	Description	200200076	KB PANEL ARCH "SOLAR SYSTEM"DKMT	200200077	KB PANEL ARCH "SOLAR SYSTEM"PTMT	200200078	KB PANEL FLAT TOP "SOLAR SYSTEM"		<table border="1"> <thead> <tr> <th>KMAT #</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>200202458</td> <td>KB PANEL ARCH "THEATER" PTMT TAN/RED</td> </tr> <tr> <td>200202456</td> <td>KB PANEL FLT.TP."THEATER" TAN/RED</td> </tr> </tbody> </table>	KMAT #	Description	200202458	KB PANEL ARCH "THEATER" PTMT TAN/RED	200202456	KB PANEL FLT.TP."THEATER" TAN/RED		<table border="1"> <thead> <tr> <th>KMAT #</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>200200113</td> <td>KB PANEL ARCH "CUSTOM" DKMT RED/YLW</td> </tr> <tr> <td>200200114</td> <td>KB PANEL ARCH "CUSTOM" PTMT RED/YLW</td> </tr> <tr> <td>200200115</td> <td>KB PANEL FLAT TOP "CUSTOM" RED/YLW</td> </tr> </tbody> </table>	KMAT #	Description	200200113	KB PANEL ARCH "CUSTOM" DKMT RED/YLW	200200114	KB PANEL ARCH "CUSTOM" PTMT RED/YLW	200200115	KB PANEL FLAT TOP "CUSTOM" RED/YLW		
KMAT #	Description																												
200200076	KB PANEL ARCH "SOLAR SYSTEM"DKMT																												
200200077	KB PANEL ARCH "SOLAR SYSTEM"PTMT																												
200200078	KB PANEL FLAT TOP "SOLAR SYSTEM"																												
KMAT #	Description																												
200202458	KB PANEL ARCH "THEATER" PTMT TAN/RED																												
200202456	KB PANEL FLT.TP."THEATER" TAN/RED																												
KMAT #	Description																												
200200113	KB PANEL ARCH "CUSTOM" DKMT RED/YLW																												
200200114	KB PANEL ARCH "CUSTOM" PTMT RED/YLW																												
200200115	KB PANEL FLAT TOP "CUSTOM" RED/YLW																												
	<table border="1"> <thead> <tr> <th>KMAT #</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>200200082</td> <td>KB PANEL ARCH "SWINGING MONKEYS" DKMT</td> </tr> <tr> <td>200200083</td> <td>KB PANEL ARCH "SWINGING MONKEYS" PTMT</td> </tr> <tr> <td>200200084</td> <td>KB PANEL FLT. TP. "SWINGING MONKEYS"</td> </tr> </tbody> </table>	KMAT #	Description	200200082	KB PANEL ARCH "SWINGING MONKEYS" DKMT	200200083	KB PANEL ARCH "SWINGING MONKEYS" PTMT	200200084	KB PANEL FLT. TP. "SWINGING MONKEYS"		<table border="1"> <thead> <tr> <th>KMAT #</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>200200090</td> <td>KB PANEL ARCH "THEATER" PTMT RED/YLW</td> </tr> <tr> <td>200200091</td> <td>KB PANEL FLT. TP. "THEATER" RED/YLW</td> </tr> </tbody> </table>	KMAT #	Description	200200090	KB PANEL ARCH "THEATER" PTMT RED/YLW	200200091	KB PANEL FLT. TP. "THEATER" RED/YLW		<table border="1"> <thead> <tr> <th>KMAT #</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>200200110</td> <td>KB PANEL ARCH "CUSTOM" DKMT TAN/GRN</td> </tr> <tr> <td>200200111</td> <td>KB PANEL ARCH "CUSTOM" PTMT TAN/GRN</td> </tr> <tr> <td>200200112</td> <td>KB PANEL FLAT TOP "CUSTOM" TAN/GRN</td> </tr> </tbody> </table>	KMAT #	Description	200200110	KB PANEL ARCH "CUSTOM" DKMT TAN/GRN	200200111	KB PANEL ARCH "CUSTOM" PTMT TAN/GRN	200200112	KB PANEL FLAT TOP "CUSTOM" TAN/GRN		
KMAT #	Description																												
200200082	KB PANEL ARCH "SWINGING MONKEYS" DKMT																												
200200083	KB PANEL ARCH "SWINGING MONKEYS" PTMT																												
200200084	KB PANEL FLT. TP. "SWINGING MONKEYS"																												
KMAT #	Description																												
200200090	KB PANEL ARCH "THEATER" PTMT RED/YLW																												
200200091	KB PANEL FLT. TP. "THEATER" RED/YLW																												
KMAT #	Description																												
200200110	KB PANEL ARCH "CUSTOM" DKMT TAN/GRN																												
200200111	KB PANEL ARCH "CUSTOM" PTMT TAN/GRN																												
200200112	KB PANEL FLAT TOP "CUSTOM" TAN/GRN																												
	<table border="1"> <thead> <tr> <th>KMAT #</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>200200300</td> <td>KB PANEL ARCH "FIRE SAFETY" DKMT</td> </tr> <tr> <td>200200301</td> <td>KB PANEL ARCH "FIRE SAFETY" PTMT</td> </tr> <tr> <td>200200302</td> <td>KB PANEL FLAT TOP "FIRE SAFETY"</td> </tr> </tbody> </table>	KMAT #	Description	200200300	KB PANEL ARCH "FIRE SAFETY" DKMT	200200301	KB PANEL ARCH "FIRE SAFETY" PTMT	200200302	KB PANEL FLAT TOP "FIRE SAFETY"	<p><b>Installation Instructions</b></p> <ol style="list-style-type: none"> <li>Loosely assemble the panel clamps to the panel (refer to DETAIL 1).</li> <li>If installing a deck mount model, insert two deck mounting tabs in the slots located on the underside of the arch top panel and loosely assemble (refer to DETAIL 2). <b>NOTE:</b> vertical slot in tab should be inserted into panel off centered to the outside.</li> <li>Attach the lower portion of the deck mounting tabs to the deck edge (refer to DETAIL 2).</li> <li>Assemble the panel clamps to the posts (refer to front of manual for clamp installation detail).</li> <li>Tighten all hardware and install clamp drive pins.</li> </ol>																			
KMAT #	Description																												
200200300	KB PANEL ARCH "FIRE SAFETY" DKMT																												
200200301	KB PANEL ARCH "FIRE SAFETY" PTMT																												
200200302	KB PANEL FLAT TOP "FIRE SAFETY"																												

NOTE: BOM CONTINUED FROM SHEET 1

PANEL ARCH TOP ALPHABET KB POST MT.  
200025041

Item	Code	Description	Qty.
1B	908611P	PANEL ARCH ALPHABET KB PTMT	1
2B	909321P	PANEL CLAMP F/KB PANELS	4
4B	HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS 1/1	2
15B	HW7584-1	HRDW PKG SS 4 WNDR BLT MT 1/1	1

HRDW PKG F/2SETS O/CLAMPS 1/1  
HW2CLMPSET-1

Item	Code	Description	Qty.
7B	200002018	SCREW MACH BUTTONHEAD M10 X 1.5 X 25MM	4
8B	200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	4
9B	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	4

HRDW PKG SS 4 WNDR BLT MT S1/1  
HW7584-1

Item	Code	Description	Qty.
10B	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30MM	4
11B	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	8
13B	200002142	BOLT M8 X 1.25 MALE 57.5MM	4

PANEL FLT. TP. ALPHABET KB  
200024847

Item	Code	Description	Qty.
1C	908608P	PANEL FLT. TP. ALPHABET KB	1
2C	909321P	PANEL CLAMP F/KB PANELS	4
4C	HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS 1/1	2
15C	HW7584-1	HRDW PKG SS 4 WNDR BLT MT 1/1	1

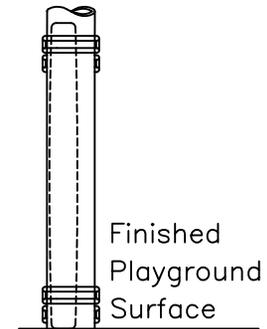
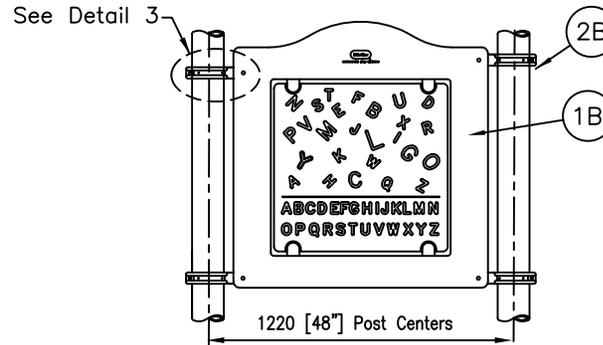
HRDW PKG F/2SETS O/CLAMPS S1/1  
HW2CLMPSET-1

Item	Code	Description	Qty.
7C	200002018	SCREW MACH BUTTONHEAD M10 X 1.5 X 25MM	4
8C	200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	4
9C	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	4

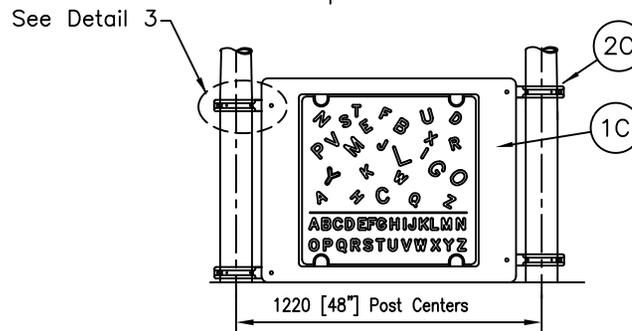
HRDW PKG SS 4 WNDR BLT MT S1/1  
HW7584-1

Item	Code	Description	Qty.
10C	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30MM	4
11C	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	8
13C	200002142	BOLT M8 X 1.25 MALE 57.5MM	4

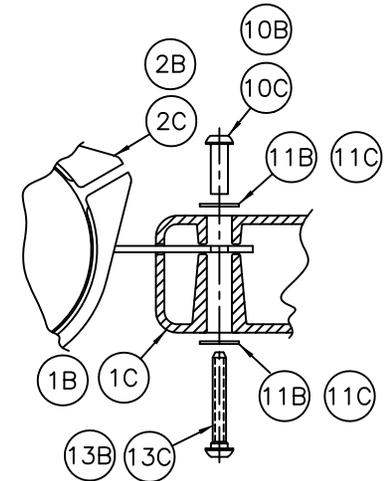
Alphabet Panel  
Arch Top-Post Mount



Alphabet Panel  
Flat Top-Post Mount



Post Mount

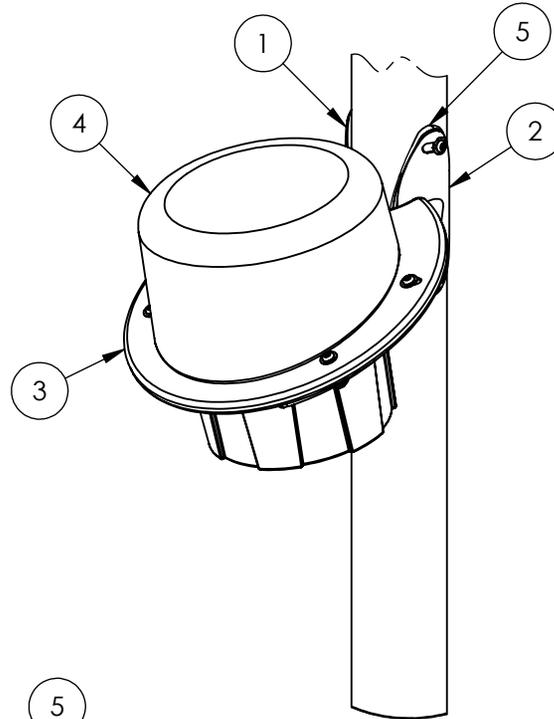


DETAIL 3  
Typ 4 Places

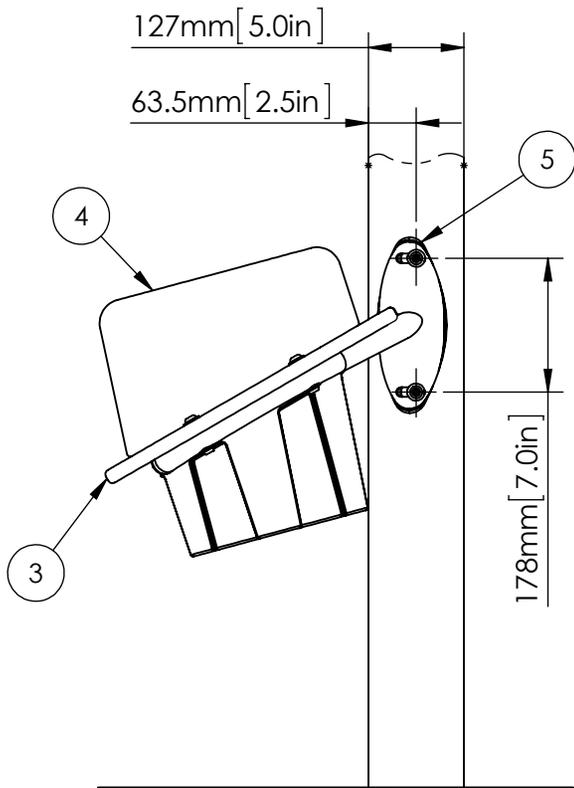
NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

# INSTALL INSTRUCTION F/KB BOINGO

200313345  
KB600068A  
SHEET 1 OF 4  
AUTHORIZED BY: 1/20/14  
*ERIC CLINTON*



**3D VIEW**



**SIDE VIEW**

## KB BOINGO 200203205

ITEM	PART NO.	DESCRIPTION	QTY
1	998884	BEATBUBBLE SUPPORT LEFT	1
2	998881	BEATBUBBLE SUPPORT RIGHT	1
3	998915	BOINGO FRAME	1
4	993773	DRUM, ROTOMOLDED - 13" DIA	1

## HDWR BAG F/ KB BOINGO 999370

ITEM	PART NO.	DESCRIPTION	QTY
5	993573	RUBBER GASKET	2
6	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30MM	8
7	200002138	BOLT M8 X 1.25 MALE 42.5 MM	4
8	200112520	ROD THREADED M8 X 1.25 X 135MM-PARTS RM	2
9	104749	BOLT 1/4-20 X 1-1/4 BHCS 6 LOBE	4
10	200008483	WASHER BOWED M11 23.5 X 11.7 X 1.57mm	8
11	117001	1/4" FLAT WASHER - 18-8 SS	4
12	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	4

### Application:

- Installed below deck only

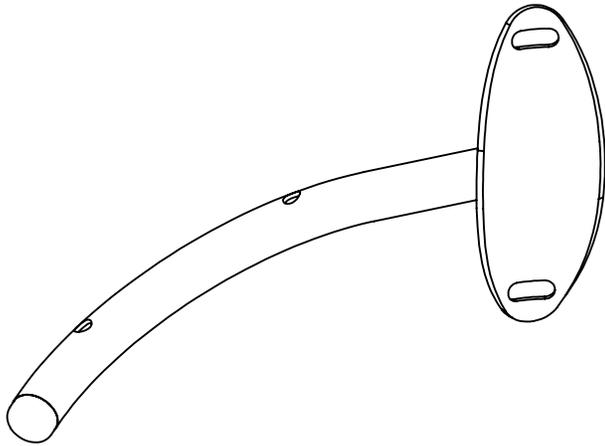
### Installation Instructions:

- Two holes will need to be drilled through the existing KB post. Distance between upper and lower hole is 178mm [7"] as shown in Side View on sheet 1. Make sure drill is level. Drill two 13mm [1/2"] diameter holes through the KB post.
- Attach Left & Right supports (Items 1 & 2) along with gaskets as shown in DETAIL 1.
- Assemble drum to frame as shown in DETAIL 2. Longer side of the drum top should be opposite to cutout in frame.
- Bolt this assembly onto the left and right supports in 4 locations as shown in DETAIL 3.
- Tighten all hardware.

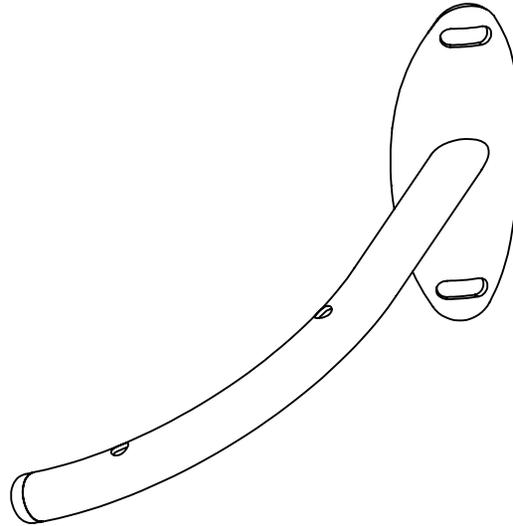
# INSTALL INSTRUCTION F/KB BOINGO

200313345  
KB600068A  
SHEET 2 OF 4  
AUTHORIZED BY: 1/20/14  
*ERIC CLINTON*

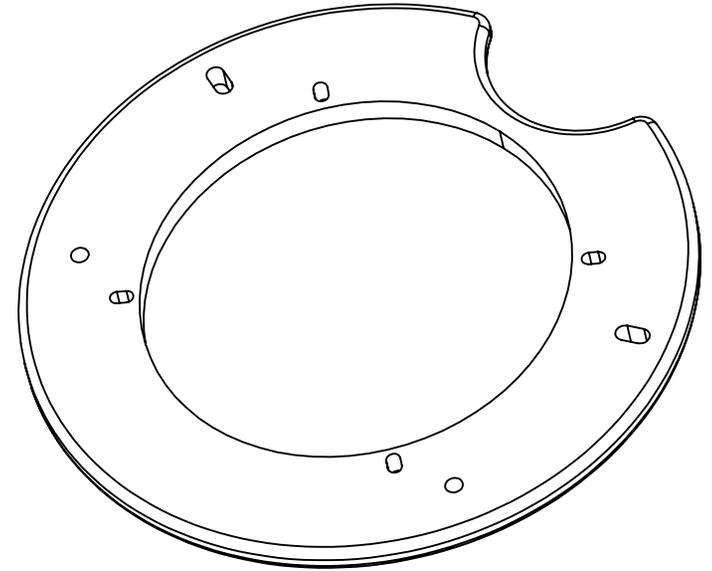
1



2

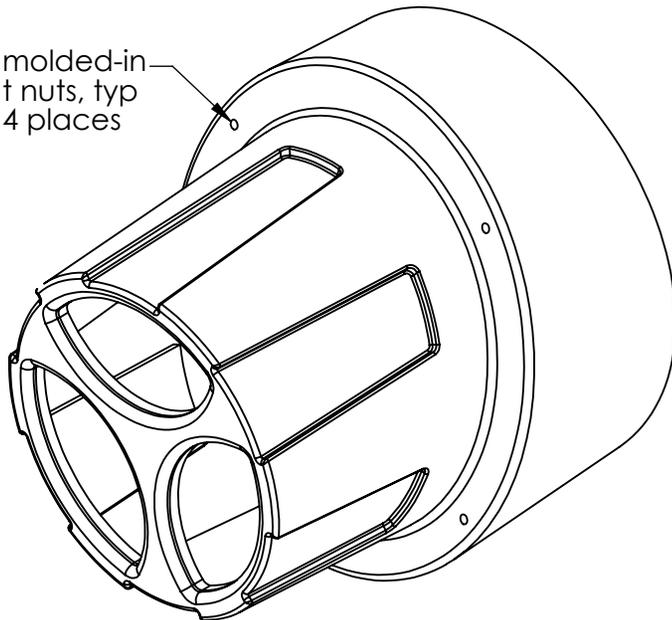


3

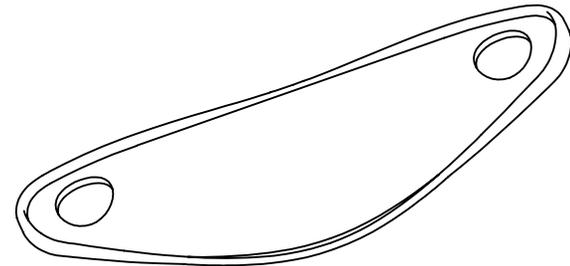


4

molded-in  
nuts, typ  
4 places

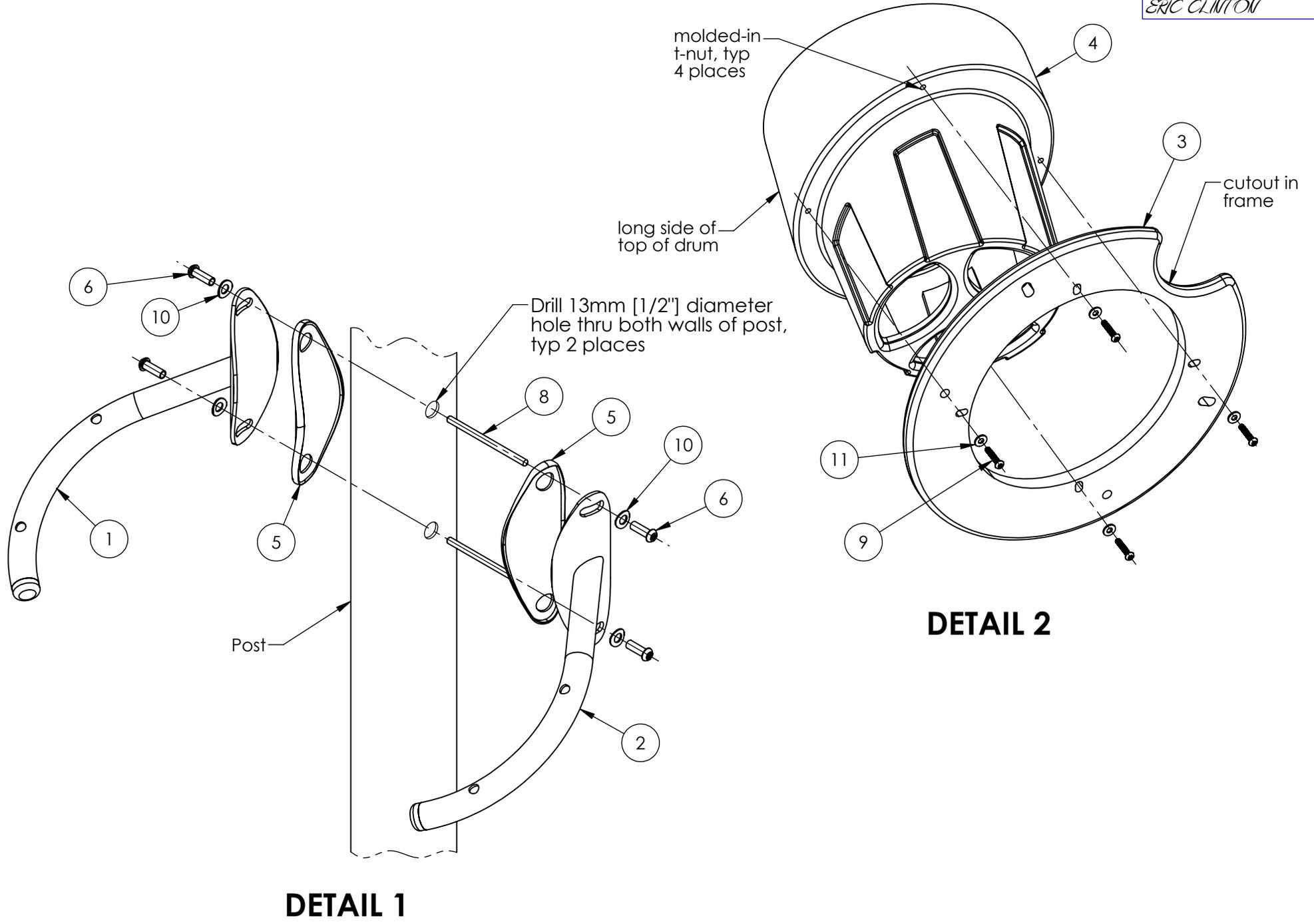


5



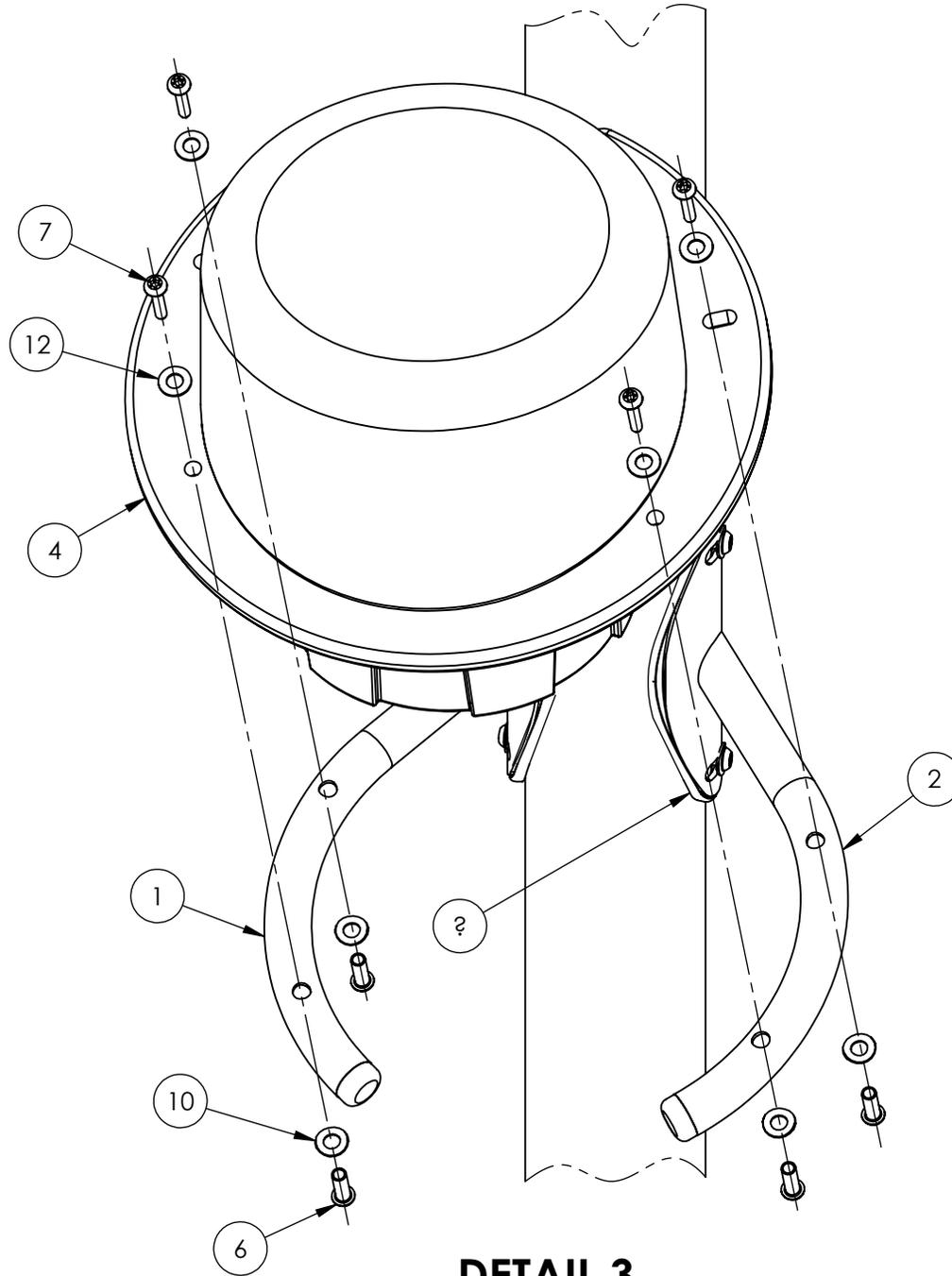
# INSTALL INSTRUCTION F/KB BOINGO

200313345  
KB600068A  
SHEET 3 OF 4  
AUTHORIZED BY: 1/20/14  
*ERIC CLINTON*



# INSTALL INSTRUCTION F/KB BOINGO

200313345  
KB600068A  
SHEET 4 OF 4  
AUTHORIZED BY: 1/20/14  
*ERIC CLINTON*



**DETAIL 3**

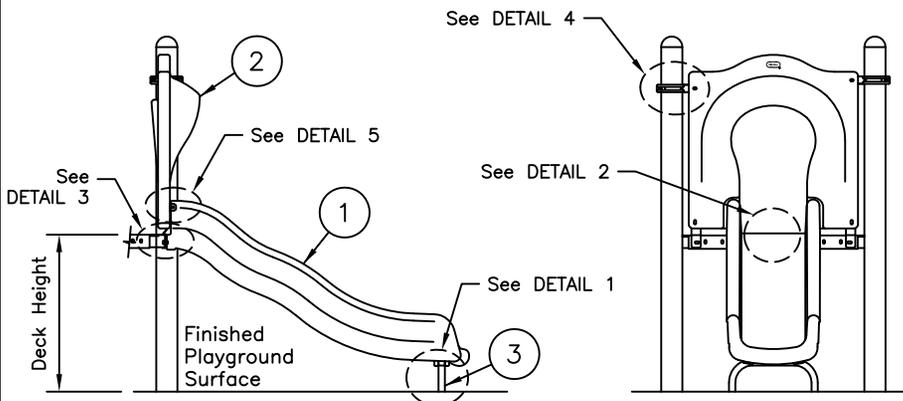
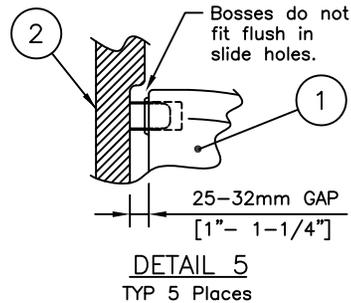
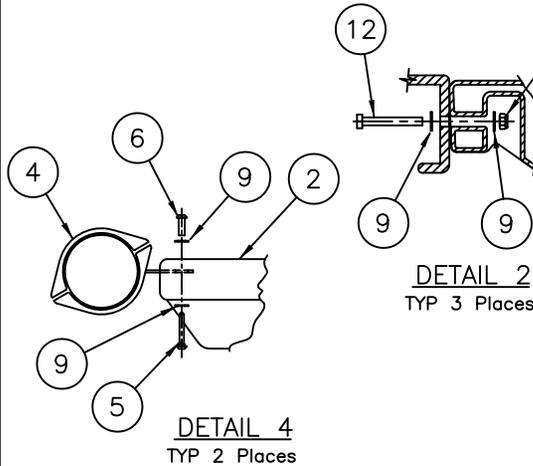
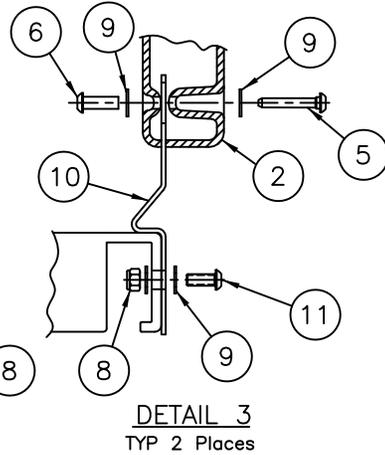
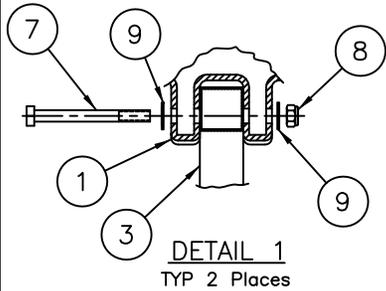


# 812/915/1016/1220 SINGLE WIDE WAVE SLIDES

200002756  
KB700003F-S1  
Sheet 1 of 2

AUTHORIZED BY: 12DEC14

*Chris M. Newberry*



**NOTE: FOOTING LAYOUT ON SHEET 2**

**NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS**

812mm [32"] SINGLE WIDE WAVE SLIDE	200201023
915mm [36"] SINGLE WIDE WAVE SLIDE	200006979
1016mm [40"] SINGLE WIDE WAVE SLIDE	200201024
1220mm [48"] SINGLE WIDE WAVE SLIDE	200006980
KB WAVE SLIDE 32" W/2014 HOOD	200203323
KB WAVE SLIDE 36" W/2014 HOOD	200203324
KB WAVE SLIDE 40" W/2014 HOOD	200203325
KB WAVE SLIDE 48" W/2014 HOOD	200203326

Item	Code	Description	Qty.
1	-	SINGLE WIDE WAVE SLIDE KB	1
2A	-	HOOD F/KB SGL. WD. WAVE SLIDE	1
2B	-	KB SGL WIDE SLIDE HOOD (2014)	1
3	-	SUPP. END SGL. WD. WAVE SLIDE	1
4	-	KB PANEL CLAMP	2
10	200117149	TAB F/PANEL MOUNTING F/KB BRN	2

**HDWR BAG F/KB 915/1220 SGL.WD.SLIDE (MM) 200007674**

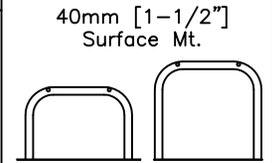
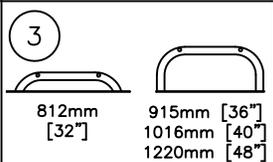
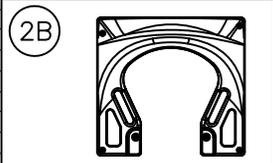
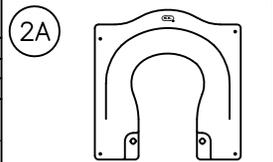
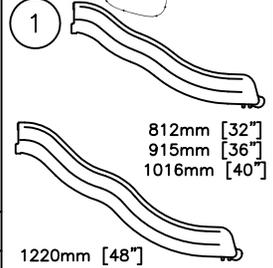
Item	Code	Description	Qty.
5	200002142	BOLT M8 X 1.25 MALE 57.5 mm	4
6	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30mm	4
7	200001875	CAP SCREW HEX HEAD M10 1.50 X 110mm	2
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	7
9	200002079	WASHER FLAT M11 23 X 12 X 1.6 mm	22
11	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25mm	2
12	200001859	CAP SCREW HEX HEAD M10 X 1.50 X 75mm	3

**Application**

- Age Groups: (2-5 year olds) & (5-12 year olds).
- The exit region should be no higher than 280 [11"] from finished playground surface for slides with an elevation no greater than 1220 [48"].
- For slides with an elevation greater than 1220 [48"], exit region should be between 180-380 [7"-15"].
- Runout slope must be between 0 to -4 degrees.

**Installation Instructions**

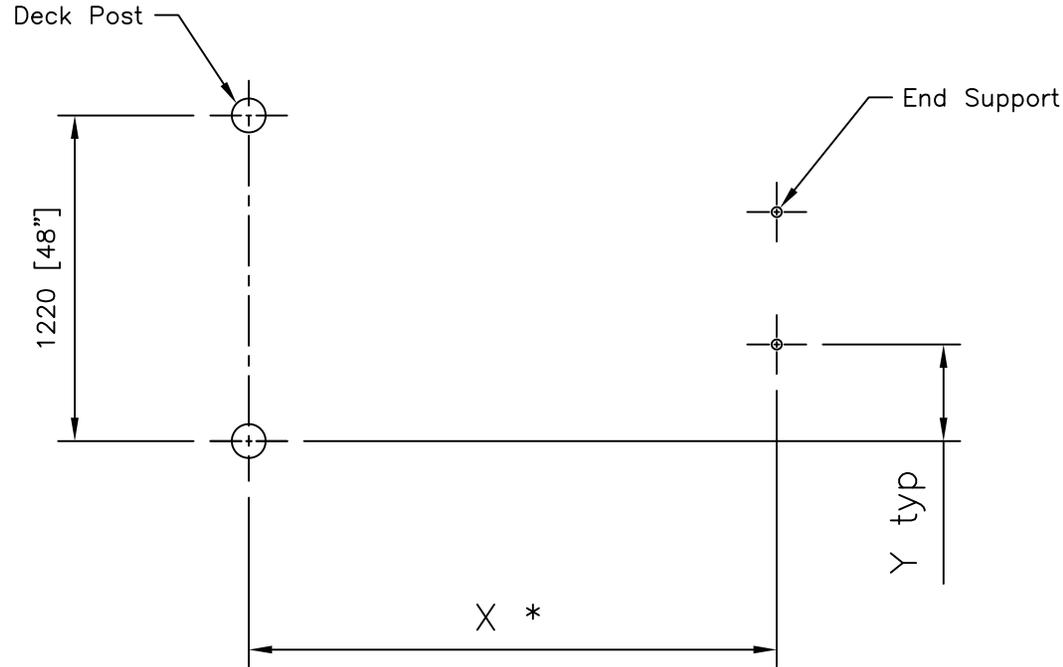
1. Prepare footings.
2. Attach the end support to the underside of the Slide as shown in DETAIL 1.
3. Place the support in the footing and attach the Slide to the deck edge as shown in DETAIL 2. If Surface Mounting, anchor the supports to the concrete.
4. Insert the bosses located at the front of the Slide Hood, into the holes provided in the side walls of the Slide. Push the hood in until FIRMLY in place. The Hood has been designed to resist string entanglements, therefore, the bosses do not fit flush in the Slide holes (see DETAIL 5). Insert the deck mounting tabs into the slots in the lower portion of the hood then to the deck edge as shown in DETAIL 3.
- (NOTE: vertical slot in tab should be inserted into panel off centered to the outside.)
5. Insert panel clamps into the slots in the Hood as shown in DETAIL 4. Attach the clamps to the post. (Refer to front of manual for clamp installation detail).
6. Tighten all hardware and install clamp drive pins.
7. Complete footings and install resilient surfacing.





AUTHORIZED BY: 12DEC14  
*Chris M. Newberry*

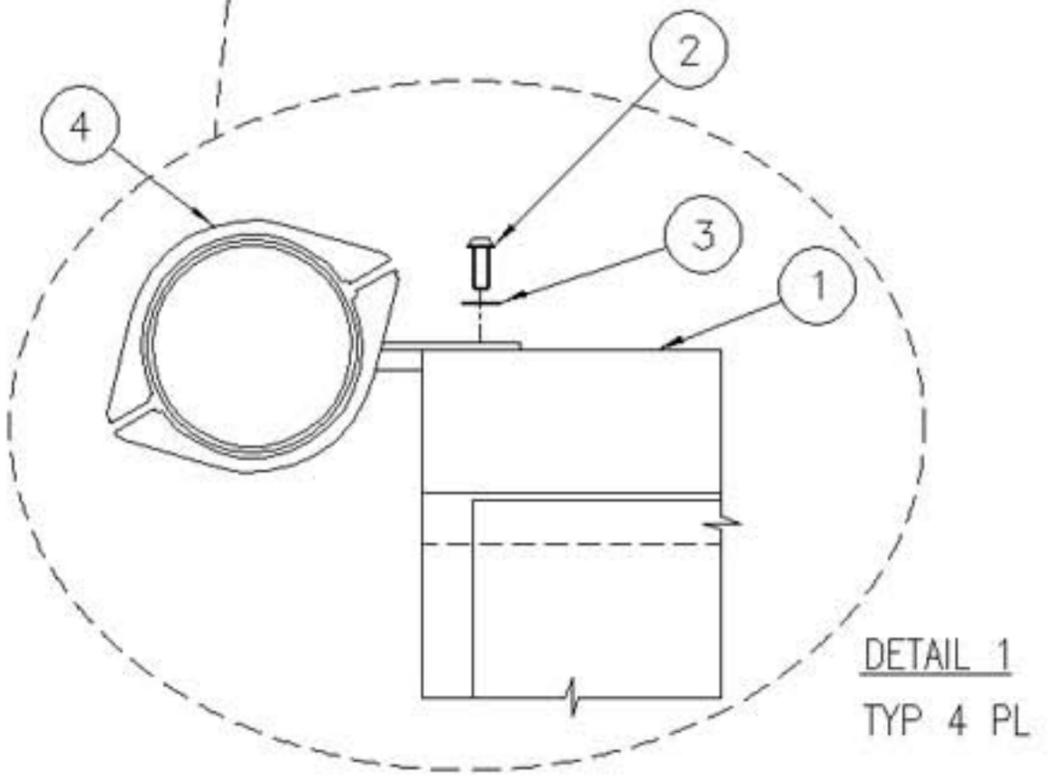
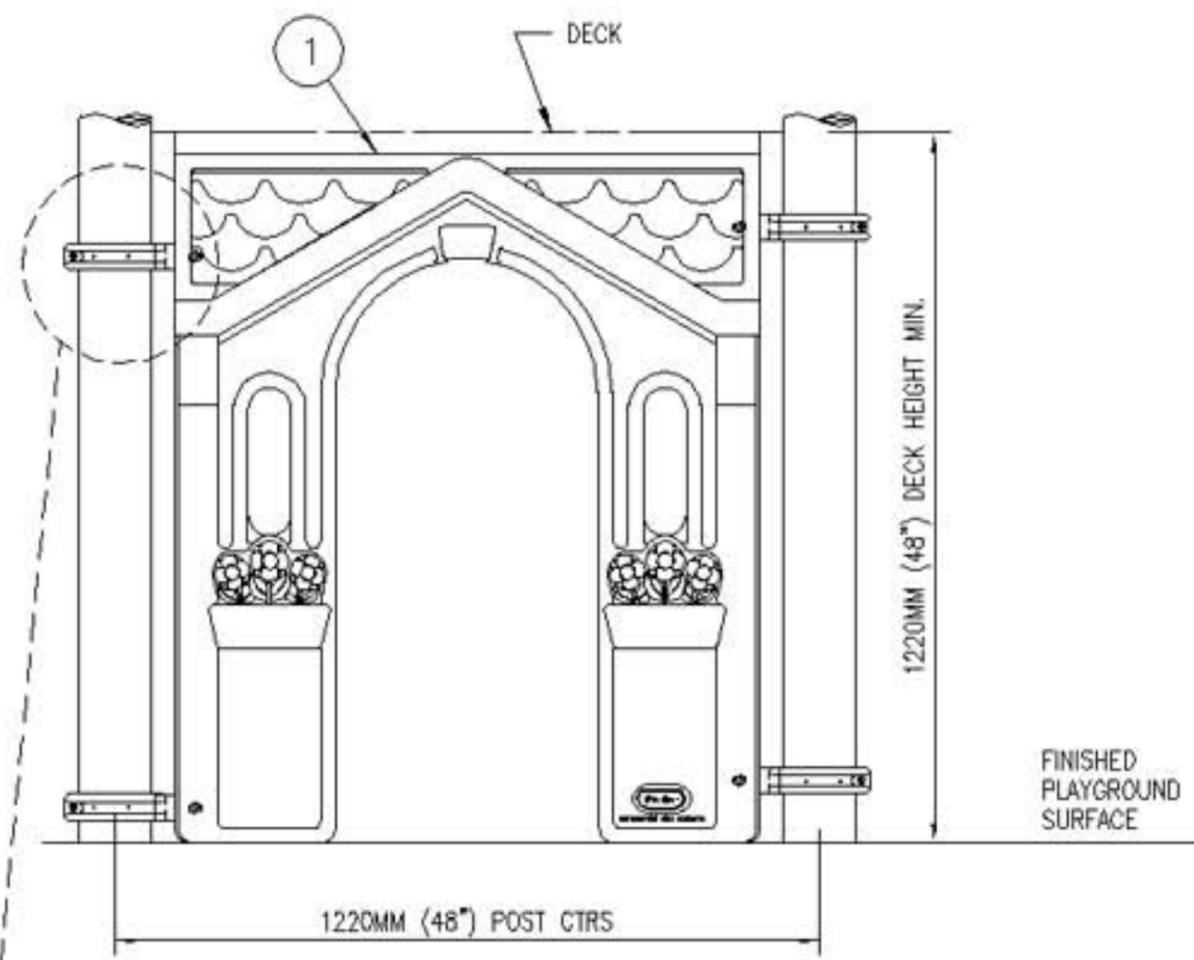
# Footing Layout



DECK HEIGHT	X		Y	
	Surface Mount	Inground	Surface Mount	Inground
812 [32"]	1650 [65"]	1650 [65"]	325 [13"]	363 [14-1/2"]
915 [36"]	1650 [65"]	1650 [65"]	363 [14-1/2"]	363 [14-1/2"]
1016 [40"]	1610 [63-1/2"]	1650 [65"]	410 [16"]	363 [14-1/2"]
1220 [48"]	1980 [78"]	1980 [78"]	363 [14-1/2"]	363 [14-1/2"]

\*Reference general information section in front of manual for slide installation information.

AUTHORIZED BY: 16JUN08  
*Shawn Slinkard*

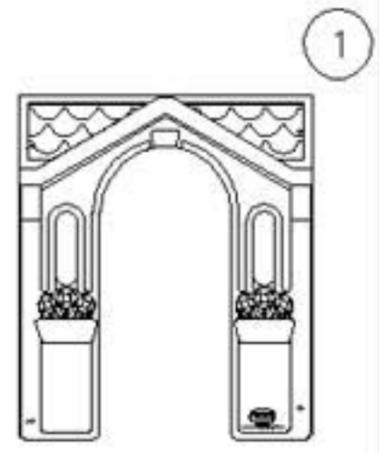


**DOOR PANEL**  
200007101

Item	Code	Description	Qty.
1	-	PANEL DOOR F/KB	1
4	-	KB PANEL TAB CLAMP	4

**HDWR BAG SS F/KB DOOR/COUNTER PANELS**  
200007591

Item	Code	Description	Qty.
2	20002018	SCREW MACH BUTTONHEAD M10 X 1.5 X 25MM	4
3	20002079	WASHER FLAT M11 23 X 12 X 1.6 (650012000)	4



**Application** AGE GROUPS (2-12 YEAR OLDS)  
 -Below deck use only  
 -Cannot be used as an enclosure  
 -Can only be mounted below a 1220 mm[48"] deck or below a 1525mm[60"] or higher deck  
 -Avoid entrapment areas between deck and top of panel

- Installation Instructions**
1. Loosely attach panel clamps to the back of panel(Refer to Detail 1).
  2. Loosely assemble clamps to post(Refer to front of manual for clamp installation detail).
  3. Position panel to correct height and tighten all hardware.

AUTHORIZED BY  
*Chris M. [Signature]* 47JAN01

**SQUARE ROOF**  
200007137

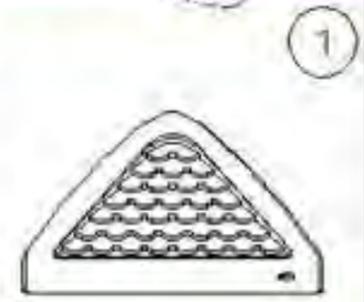
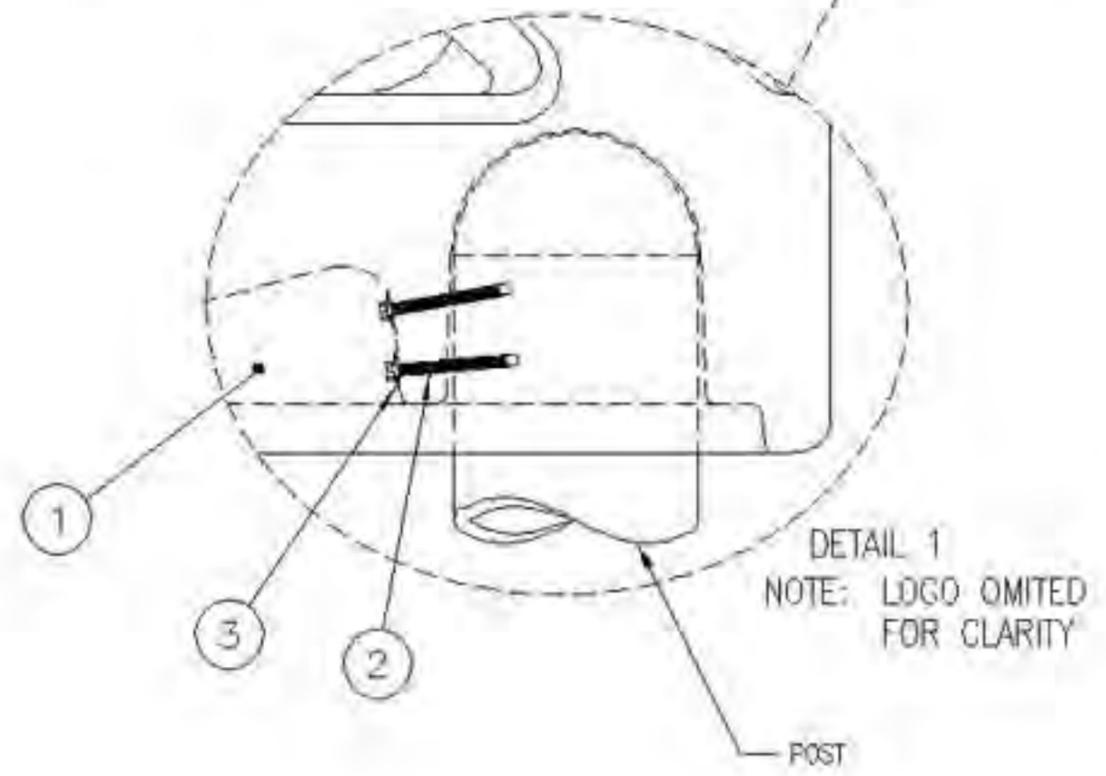
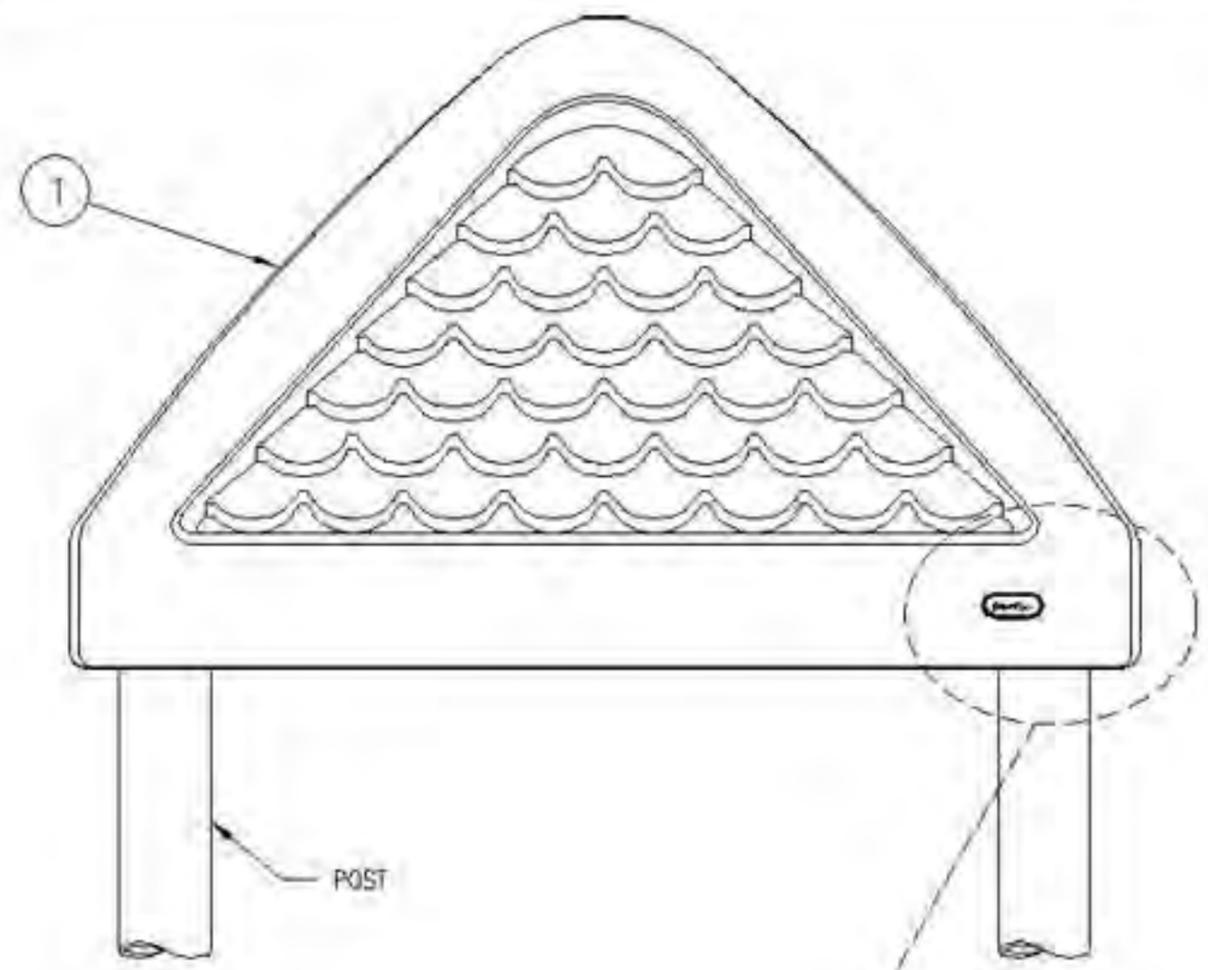
Item	Code	Description	Qty.
1	-	ROOF F/KB	1
2	200002002	SCREW DRILL HEX HEAD M6.3 X 1.81 X 65mm	8
3	200002057	WASHER FLAT M6 17.5 X 7.5 1.5mm	8

**Application AGE GROUPS (2-12 YEAR OLDS)**

1. Two roofs cannot share the same posts.
2. If an adjacent deck is higher than the one under the roof, The height of the roof should be measured from the highest deck surface.

**Installation Instructions**

1. Lower roof onto previously positioned posts and fasten with hardware (Refer to Detail 1).





Project Number: R0324180256

PlayArea: PlayArea\_2 | PlayBuilders

Project Name:

Project Location:

Sales Representative:

Northland Recreation  
N49 W34651 Wisconsin Ave  
Okauchee, WI 53069  
262-313-8636

## Installation Instructions

Please, read all information in this manual before starting to install your equipment.

Date: 4/19/2018 12:00:00 AM



## INTRODUCTION

Before starting installation, study your Play Builder Playground Layout Drawing and all installation instructions carefully. Pay special attention to the locations of posts, deck heights and fall area zones. Consider things such as, accessibility, direct sunlight/shade, fall area, and visibility of supervision when planning the orientation of your structure.

The resilient surfacing must be well drained. If it does not drain naturally, it must be tiled or sloped at 38mm[1/8"] to 63.5mm[1/4"] per foot to a drainage system.

### THE ORDER OF ASSEMBLY:

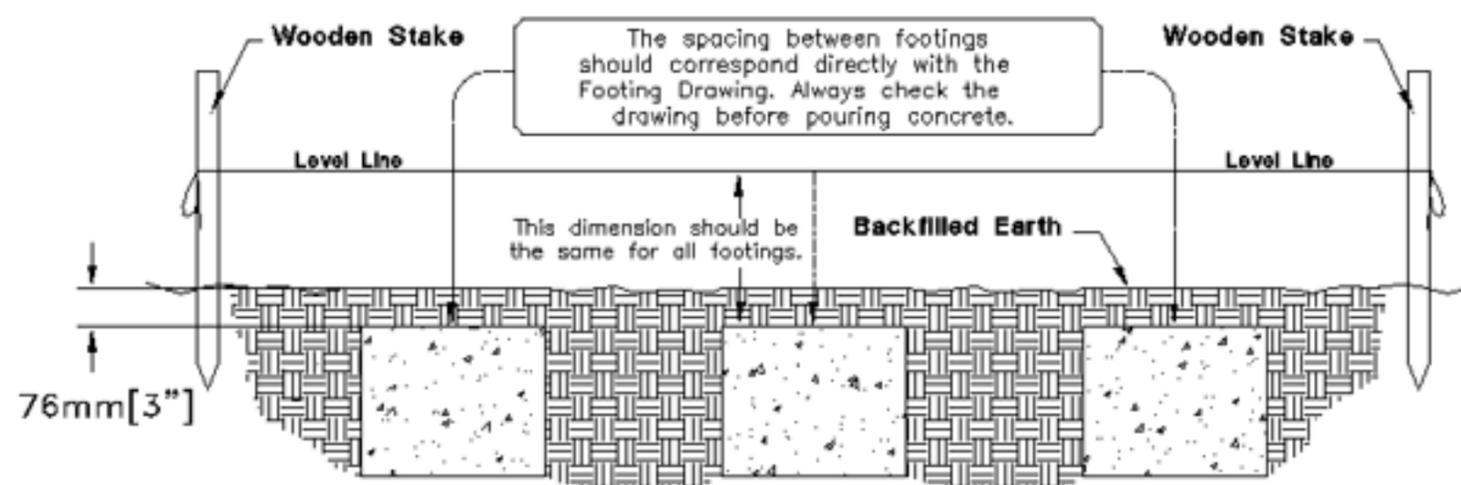
- 1) Prepare your site. (Consideration is necessary for installing the talk tube on a structure. See Site Preparation Guidelines," or Talk Tube instructions for details.)
- 2) If you are using an Anchor bolt, you will need to pour concrete at least 48 hours in advance. Do not leave any open holes overnight. (Never leave a structure overnight in a potentially hazardous condition i.e. open footing holes, open decks, exposed concrete, without roping off the area and posting warning signs. It is always best if the construction is scheduled such that the entire installation can be performed in one day, however, with larger structures this may be difficult.)
- 3) Start with the lowest deck and four posts. Calculate the location of the deck top on the first post by adding 991[39"] to the deck height. Mark the post then install as shown. (See Square Deck installation instructions for further details. **THE INSTALLATION OF THE FIRST DECK IS CRITICAL TO PROPERLY INSTALLING THIS EQUIPMENT, SO MAKE SURE THE POSTS AND DECK ARE AT THE PROPER HEIGHT AND ARE PLUMB AND LEVEL.**)
- 4) Place this assembly in the footings. If you are sure the first deck assembly is correctly positioned, you may pour the four post footings at this time to help stabilize the structure. If installing the Surface Mount method, move the assembly to the proper location. Use the feet as templates, drill bolt holes and secure the structure to the footings.
- 5) If a Deck to Deck Plate, Ladder Panel, or Interstep Deck are to be attached to the first deck, assemble the bottom edge to the deck edge. See individual instructions for details.
- 6) Attach the next deck to two posts and move the posts into the footing holes and level the deck. Attach the two open corners of the deck to the previous deck assembly posts. Finish installing the deck to deck attachment by assembling it to the edge of the upper deck.

- 7) Attach any structure linking events or overheads to the deck assemblies, such as Crawl Tunnels, Clatter Bridges, Burmese Bridges, Suspension Bridges, Challenge Ladders, etc..Continue to add the remaining decks and deck attachments to the existing structure until all platforms are in place.
- 8) Make sure the structure is level and the decks are at the proper height. Install any roofs or enclosures.
- 9) Install all remaining events.
- 10) Place warning labels on the structure.
- 11) Install resilient surfacing on the entire "use zone".

### MAKING LEVEL FOOTINGS:

By using wooden stakes and stringing a level line, you can determine the proper height for your concrete. If available, a surveyor's transit will also be helpful.

Determine ground level at the lowest footing location and pour concrete in this location first. This level will be your datum plane. (The point at which all other footing heights are referenced from.) Pour the rest of the footings up to 76mm[3"] from the level of the datum plane. Make sure that all measurements from the top of the poured footing to the level line are the same. (Hint: If installing a surface mount structure, concrete should be poured at least 48 hours in advance of the playground being installed to ensure maximum holding potential.)



Note: 94 lbs. of concrete = 1ft<sup>3</sup>

207 grams = 0.041m<sup>3</sup>

If installing with the Inground method, you must always backfill footings with at least 76mm[3"] of earth after concrete has cured. (not shown)



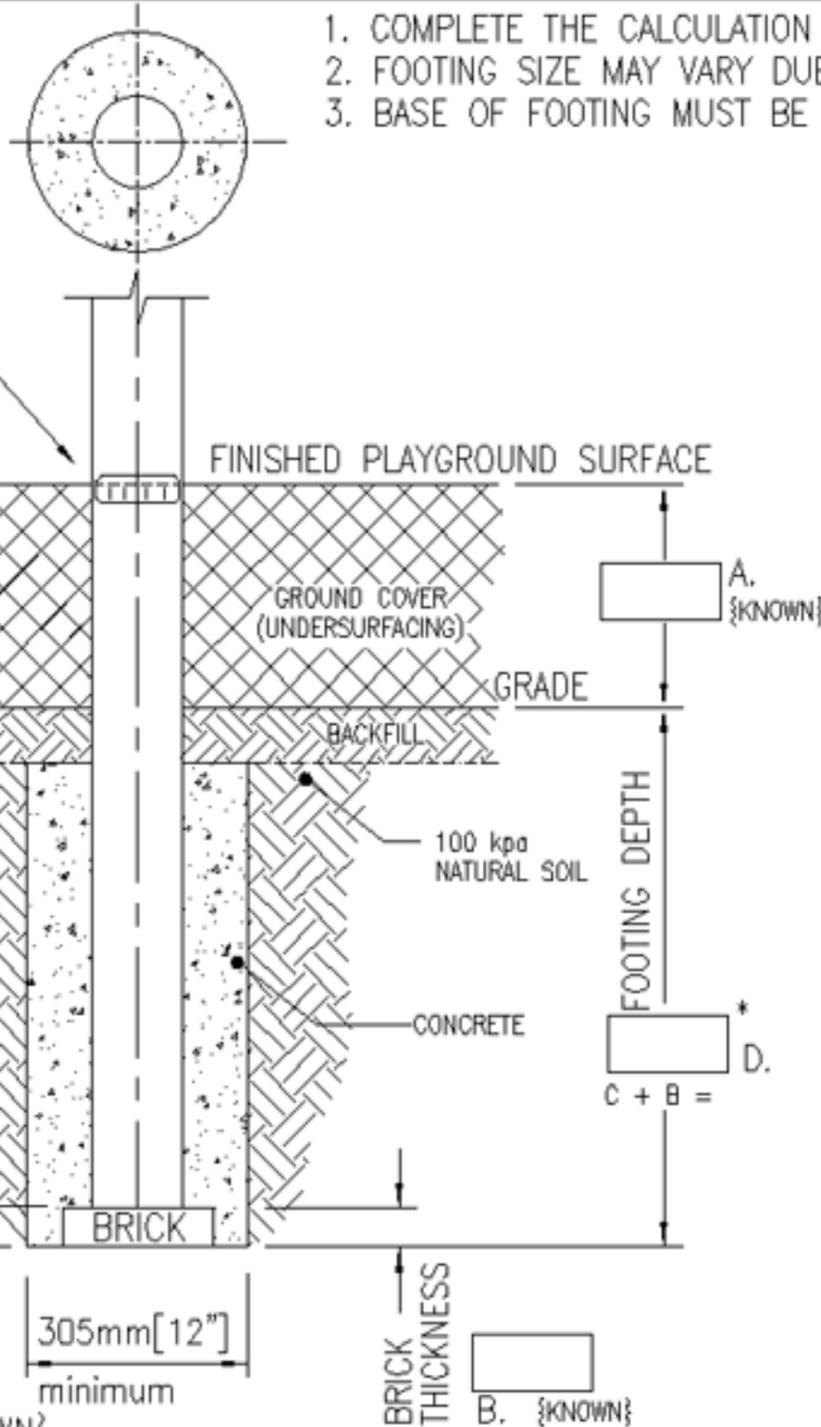
# INGROUND FOOTINGS

200064308  
PB000006B

AUTHORIZED BY: 28JULY10  
*Chris M. Henderson*

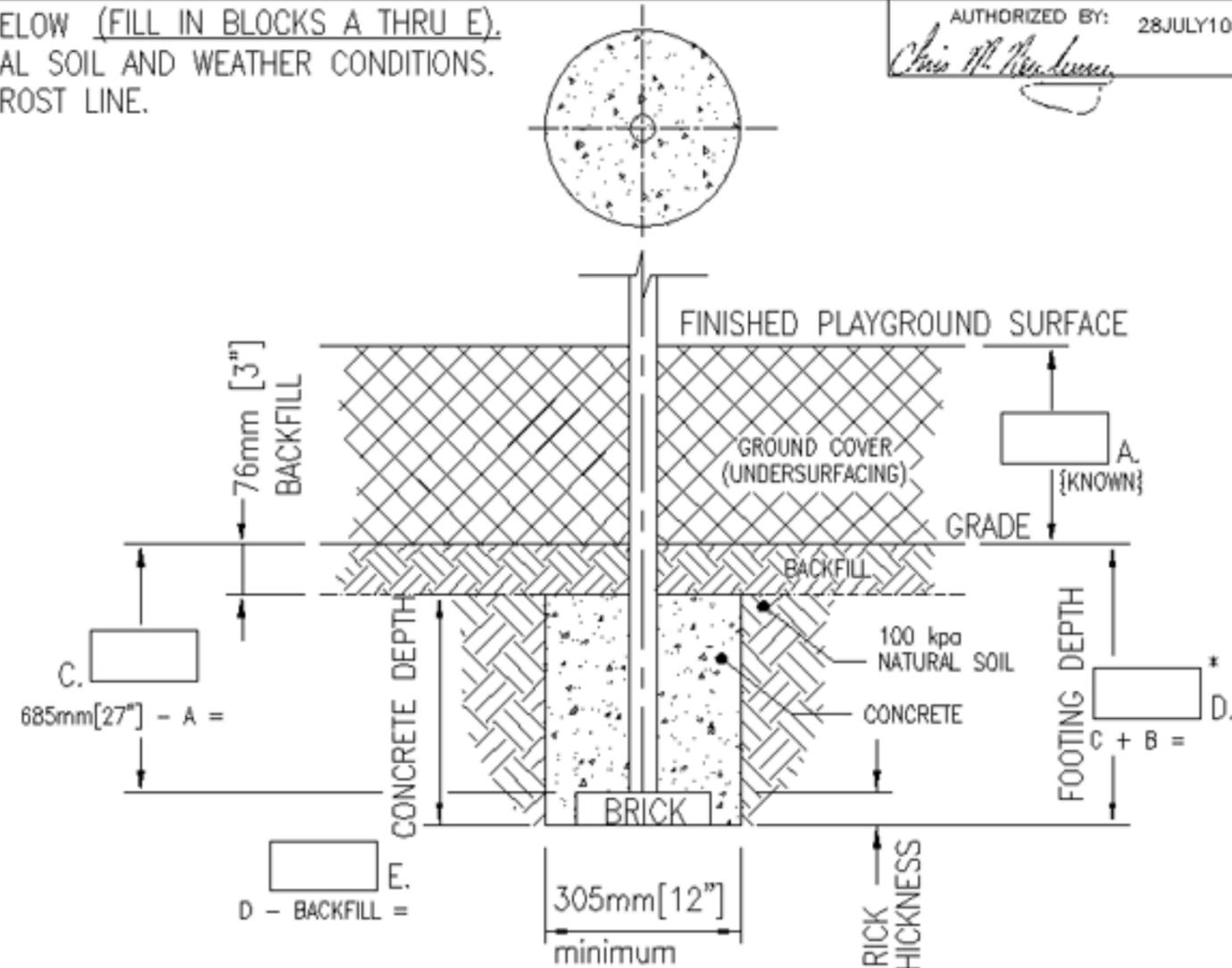
1. COMPLETE THE CALCULATION SHEET BELOW (FILL IN BLOCKS A THRU E).
2. FOOTING SIZE MAY VARY DUE TO LOCAL SOIL AND WEATHER CONDITIONS.
3. BASE OF FOOTING MUST BE BELOW FROST LINE.

SEE PB000009  
FOR STICKER APPLICATION



- A. GROUND COVER DEPTH {KNOWN}.
- B. BRICK THICKNESS {KNOWN}.
- C. 990mm[39"] - A BECAUSE A + C SHOULD ALWAYS EQUAL 990mm[39"]
- D. FOOTING DEPTH = [C] + BRICK THICKNESS.
- \*MINIMUM 610mm[24"] + BRICK THICKNESS FOOTING DEPTH REQUIRED
- E. CONCRETE DEPTH = FOOTING DEPTH [D] - 76mm[3"] (BACKFILL).

## PB POST FOOTING - INGROUND



- A. GROUND COVER DEPTH {KNOWN}.
- B. BRICK THICKNESS {KNOWN}.
- C. 685mm[27"] - A  
BECAUSE A + C SHOULD ALWAYS EQUAL 685mm[27"]
- D. FOOTING DEPTH = [C] + BRICK THICKNESS.
- \*MINIMUM 305mm[12"] + BRICK THICKNESS FOOTING DEPTH REQUIRED
- E. CONCRETE DEPTH = FOOTING DEPTH [D] - 76mm[3"] (BACKFILL).

## PB PLAYEVENT FOOTING - INGROUND

### HOW MUCH CONCRETE?

#### VOLUME OF CONCRETE REQUIRED FOR FOOTINGS:

$$= 0.067 \text{ M}^3 \times \left\{ \frac{\text{CONCRETE DEPTH (mm)}}{915} \right\} \times \text{No. OF FOOTING HOLES} = \text{M}^3$$

$$= 0.087 \text{ Yard}^3 \times \left\{ \frac{\text{CONCRETE DEPTH (IN)}}{36} \right\} \times \text{No. OF FOOTING HOLES} = \text{Yard}^3$$

NOTES: - TO CALCULATE CUBIC FEET, MULTIPLY CUBIC YARD BY 27  
- 94 lbs OF CONCRETE = 1 CUBIC FOOT.

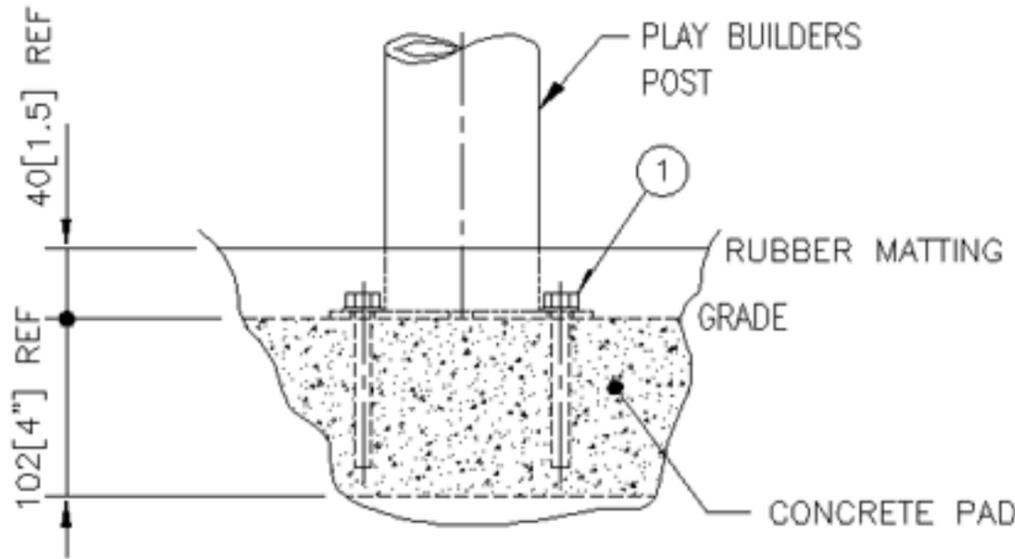


200073958

# SURFACE MOUNT FOOTINGS

## POST FOOTING

A 3/8" MASONRY BIT IS REQUIRED FOR INSTALLING ANCHOR BOLTS.



**SURFACE MOUNT**

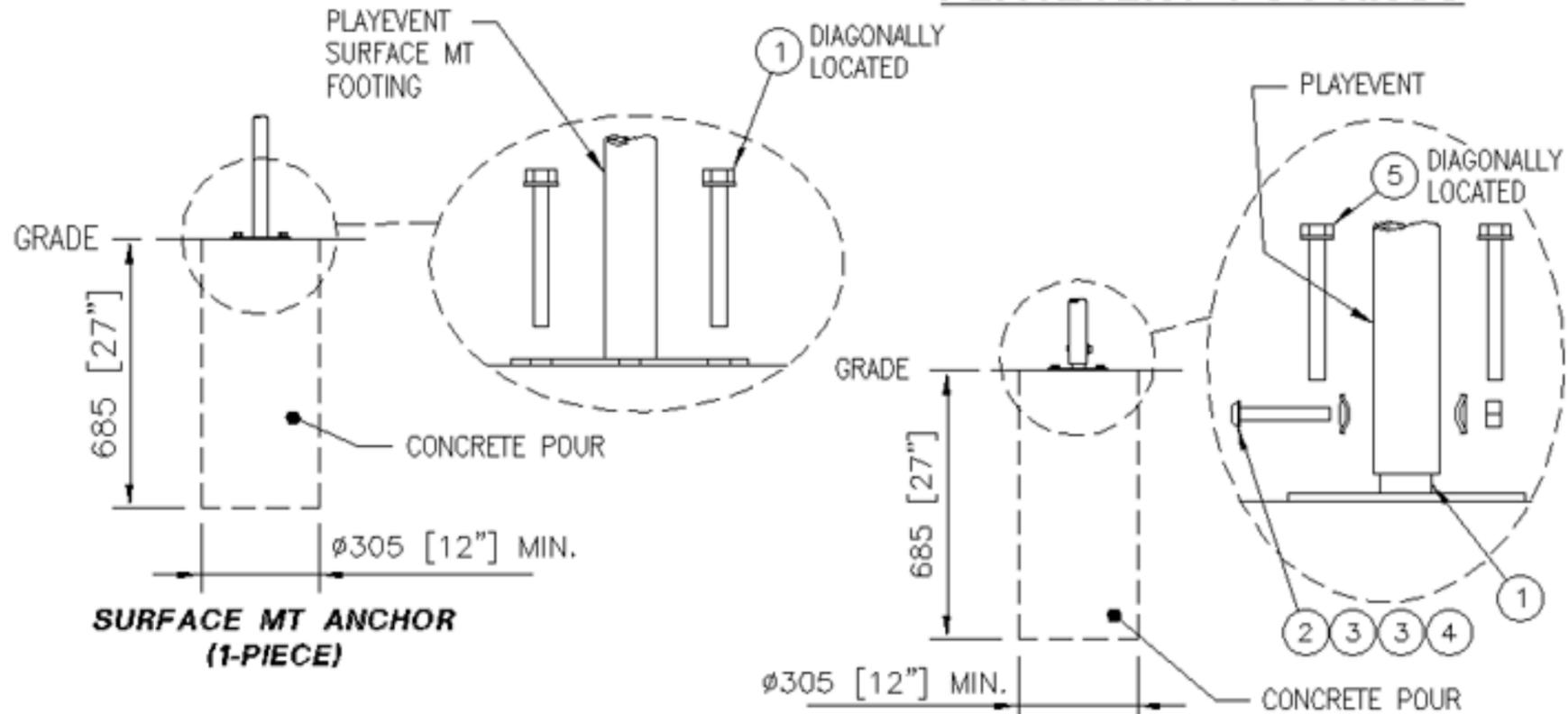
### POST FOOTINGS PARTS LISTS SURFACE MOUNT ANCHOR

Item	Drg Ref	Description	Qty.*
1	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100MM	16

\*Quantities are for a set of four posts (one square deck).

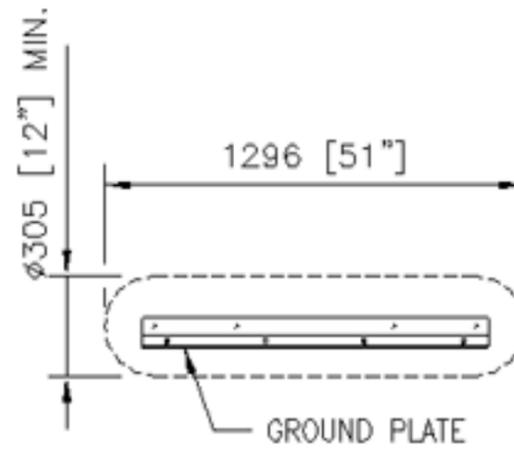
CONCRETE MAY REQUIRE UP TO THREE DAYS TO CURE.

## PLAYEVENT FOOTINGS

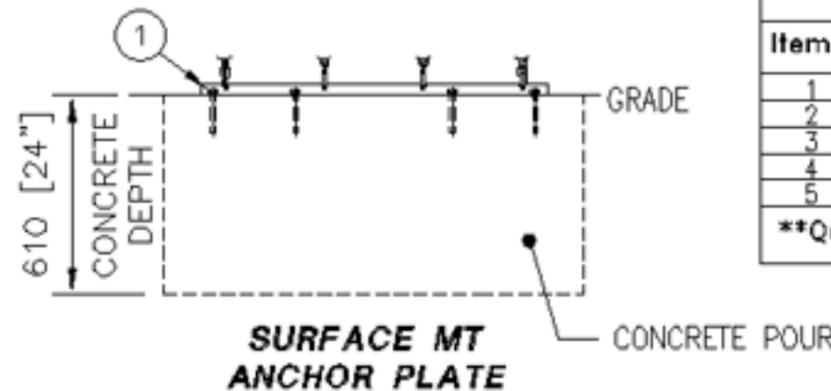


**SURFACE MT ANCHOR (1-PIECE)**

**SURFACE MT ANCHOR (2-PIECE)**



GROUND PLATE



**SURFACE MT ANCHOR PLATE**

### PLAYEVENT FOOTINGS PARTS LISTS

#### SURFACE MOUNT ANCHOR (1-PIECE)

Item	Drg Ref	Description	Qty.**
1	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100MM	2

#### SURFACE MOUNT ANCHOR (2-PIECE)

Item	Drg Ref	Description	Qty.**
1	-	TUBE ANCHOR	1
2	200002150	SCREW MACH BUTTONHEAD M10 X 1.5 X 55 MM	1
3	200008483	WASHER BOWED M11 23.5 X 11.7 X 1.57 MM	2
4	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	1
5	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100MM	2

\*\*Quantities are for one footing.



# GENERAL INFORMATION

200073957

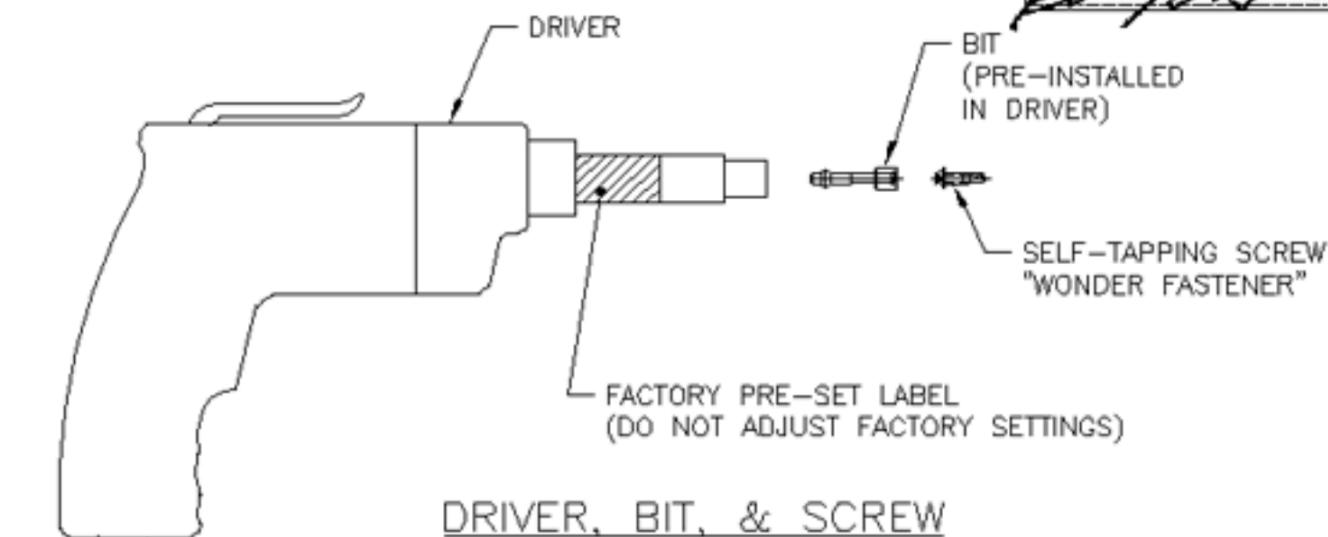
PB000009C

AUTHORIZED BY:

*[Signature]* 21JUL04

## IMPORTANT:

All Little Tikes Commercial Play Systems play events have been designed and engineered to meet all safety guidelines, but if installed improperly, problems may occur: such as protruding hardware, entrapment gaps between 76mm[3"] to 254mm[10"], or string entanglements. Make certain the runout heights on all slides match what is recommended on the instruction page for that model number. Any accessible bolt ends that protrude beyond the face of the nut more than two threads should be trimmed off and peened by the installer. Once your installation is complete, always inspect your work and the manufacturer's assembly instructions. Material Safety Data Sheets (MSDS) are available upon request. Call Customer Service at 1(800) 325-8828 for copies.



THIS INSTALLATION EQUIPMENT HAS BEEN PROVIDED TO ASSURE THE PROPER INSTALLATION OF PLAY BUILDER COMPONENTS. DO NOT USE ANY OTHER DRILL FOR INSTALLING THE "WONDER FASTENER". THE FASTENER MAY BE OVER TORQUED AND FAILURE MAY OCCUR.

**LABELS:** Safety Labels have been provided by Little Tikes Commercial Play Systems Inc. for the purpose of informing the user of the potential safety risk involved if a fall onto a hard surface occurs. It is important when installing your playground equipment to display this label in a prominent location on each structure.

The label should be placed such that it will:

- 1) be readily visible to the intended viewer.
- 2) alert the viewer to the potential hazard in time to take appropriate action.

Surfacing labels have been provided to assist with the of your ground cover. After installing your ground cover, these labels should be placed on the posts by the installer. Attach a label to a post so that the line is level with ground cover as erosion or compaction of the surfacing occurs, the line will be visible. This will indicate that it is time to add material to your surfacing. If the surfacing is worn away, greatly reduces its effectiveness.

**WARNING**

INSTALLATION OVER A HARD SURFACE SUCH AS CONCRETE, ASPHALT, OR PACKED EARTH MAY RESULT IN SERIOUS INJURY OR DEATH FROM FALLS.

L'INSTALLATION SUR SURFACE DURE TELLE QUE DU CIMENT, DE L'ASPHALTE OU DE LA TERRE BATTUE PEUT CAUSER DE SÉRIEUSES BLESSURES OU MEME LA MORT EN CAS DE CHUTE.

INSTALACION SOBRE UNA SUPERFICIE DURA, TAL COMO CONCRETO, ASFALTO O TERRENO COMPACTADO, PUEDE PROVOCAR QUE UNA CAIDA CAUSE LESIONES SERIAS O INCLUSO LA MUERTE.

Little Tikes Commercial Play Systems Inc.  
P.O. Box 897  
Farmingdale, MD 43640

For more information, call Little Tikes Commercial Play Systems Inc. at 1-800-450-2757 or 1-573-756-4991

↑ TOP OF SURFACE ↑ HASTA A QUI ↑ NIVEAU ZERO ↑

INSTALL AND MAINTAIN TOP OF RECOMMENDED SURFACING TO THIS MARK    COLOQUE Y MANTENGA HASTA LA MARCA LA SUPERFICIE RECOMENDADA    POUR L'INSTALLATION ET LA MAINTENANCE LA SURFACE AMORISSANTE DOIT ATTEINDRE CE NIVEAU

## SPECIFICATIONS FOR STANDARD INSTALLATION PARTS

### FASTENERS

FINISH: STAINLESS STEEL (METRIC)

### GASKETS

MATERIAL: J-VON HERCUPRENE ENGINEERED ELASTOMER 6194B-88A900

COLOR: BLACK

FINISH: NONE

### PANEL & RAIL TABS

MATERIAL: 7 GA. PRE-GALVANIZED SHEET STEEL

COLOR: AS SELECTED FROM STANDARD COLOR RANGE

FINISH: POLYESTER POWDER COAT

### KID VILLAGE BRACKET

MATERIAL: 7 GA. HR SHEET STEEL

COLOR: BROWN

FINISH: POLY VINYL CHLORIDE

### BRACKET BENT F/KK VILLAGE PANELS

MATERIAL: 11 GA. HR SHEET STEEL, ZINC PLATED

COLOR: AS SELECTED FROM STANDARD COLOR RANGE

FINISH: POLYESTER POWDER COAT

### SURFACE MT POST PLATE

MATERIAL: 7 GA. PRE-GALVANIZED SHEET STEEL

COLOR: AS SELECTED FROM STANDARD COLOR RANGE

FINISH: POLYESTER POWDER COAT

### SURFACE MT BRACKETS

MATERIAL: 7 GA. PRE-GALVANIZED SHEET STEEL

COLOR: BROWN

FINISH: POLYESTER POWDER COAT

### INGROUND BRACKETS

MATERIAL: 11 GA. PRE-GALVANIZED SHEET STEEL AND #73 [2-7/8"] 5 GA. PRE-GALVANIZED STEEL TUBING

COLOR: BROWN

FINISH: POLYESTER POWDER COAT

### TUBE ANCHORS

MATERIAL: 7 GA. PRE-GALVANIZED SHEET STEEL AND #33.4 [1-5/16"] 14 GA. PRE-GALVANIZED STEEL TUBING

COLOR: AS SELECTED FROM STANDARD COLOR RANGE

FINISH: POLYESTER POWDER COAT



# TYPICAL ATTACHMENTS

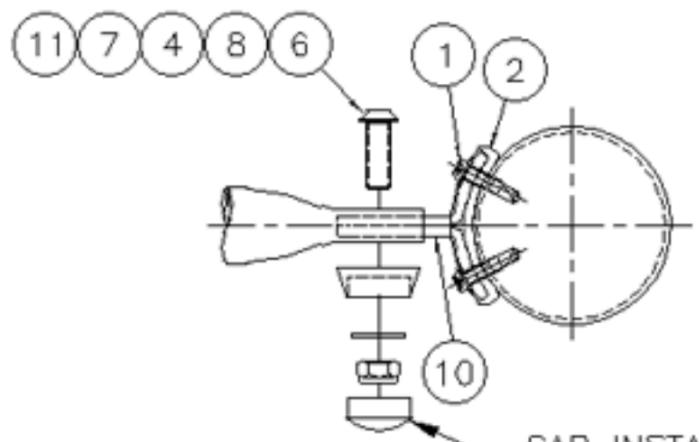
200073959  
PB000010B  
Sheet 1 of 1

AUTHORIZED BY: *[Signature]* 21JUL04

## POST FOOTINGS PARTS LISTS

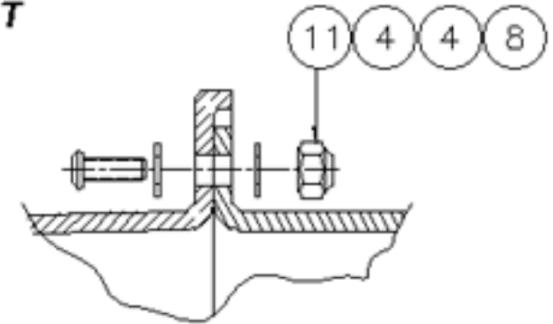
### TYPICAL ATTACHMENTS

Item	Drg Ref	Description
1	300002750	SCREW T-27 TORX ROUND WASHER HD
2	200058372	GASKET F/PB TABS (SMALL)
3	200058373	GASKET F/PB PLATE (LARGE)
4	200002079	WASHER FLAT M11 23 X 12 X 1.6
5	200002096	WASHER FLAT M10 340D X 11ID X 3 MM THK
6	-	CAP HDWR COVER
7	-	CAP HDWR BASE
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5
9	-	TAB PANEL F/PB
10	-	TAB RAIL 33.4 F/PB
11	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM
12	200002145	BOLT MB X 1.25 FEMALE 10.3 X 30 MM
13	200002138	BOLT MB X 1.25 MALE 42.5 MM
14	200002133	BOLT MB X 1.25 MALE 27.5 MM
15	200065377	BRACKET F/PB VILLAGE PANELS (TDV)
16	-	BRACKET BENT F/KK VILLAGE PANELS
17	200073027	WASHER RUBBER 9 ID X 16 OD X 2.4
18	200073028	WASHER SEALING 8.4 ID X 19 OD X 2.8
19	200001830	CAP SCREW HEX HEAD M8 X 1.25 X 90MM

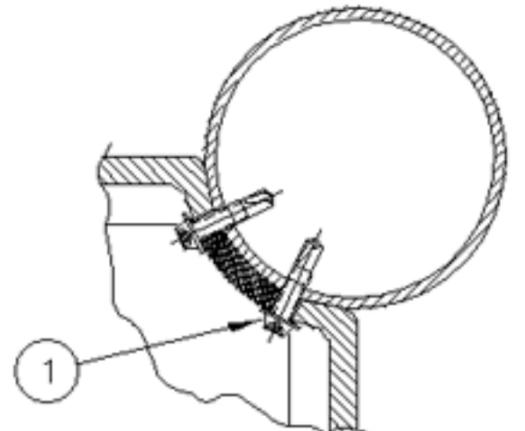


LOOP/RAIL TO POST

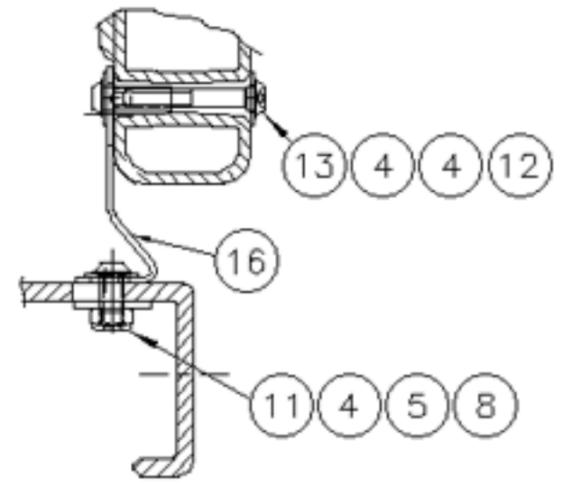
CAP INSTALLED  
OUTSIDE DECK



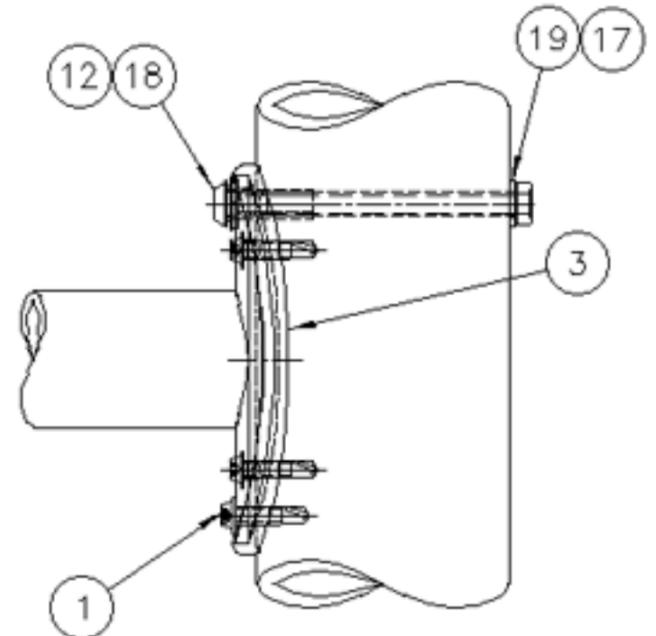
TUNNEL TO TUNNEL



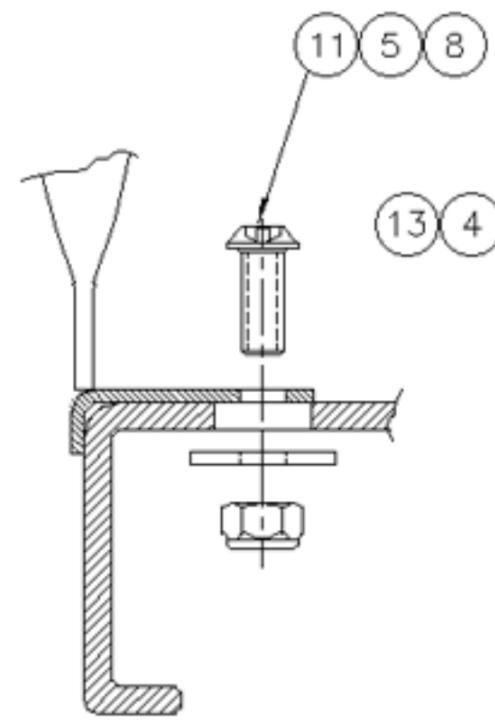
DECK TO POST



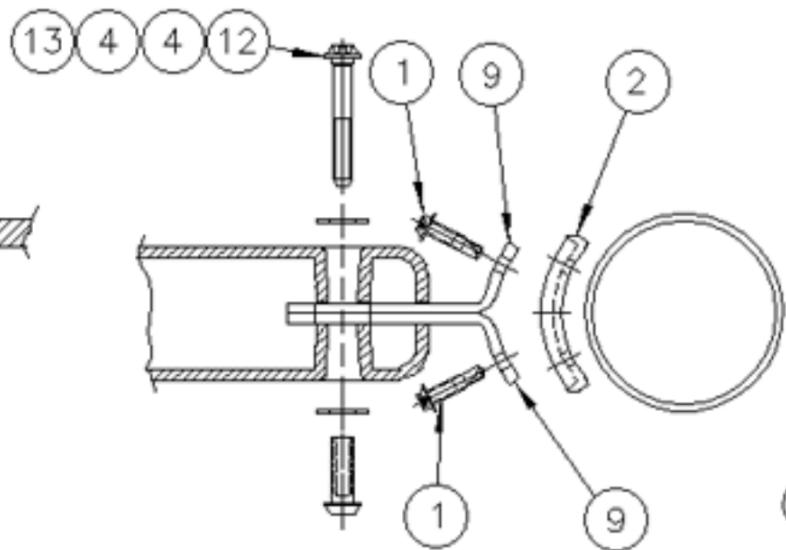
PANEL TO DECK



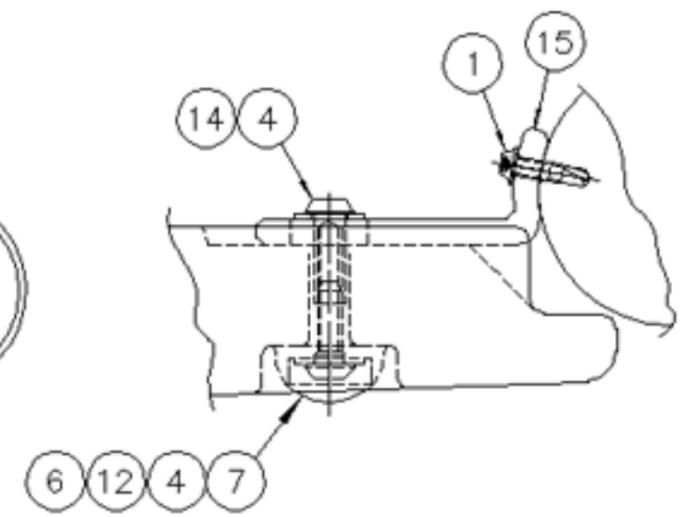
OVERHEAD TO POST



LOOP TO DECK



PANEL TO POST



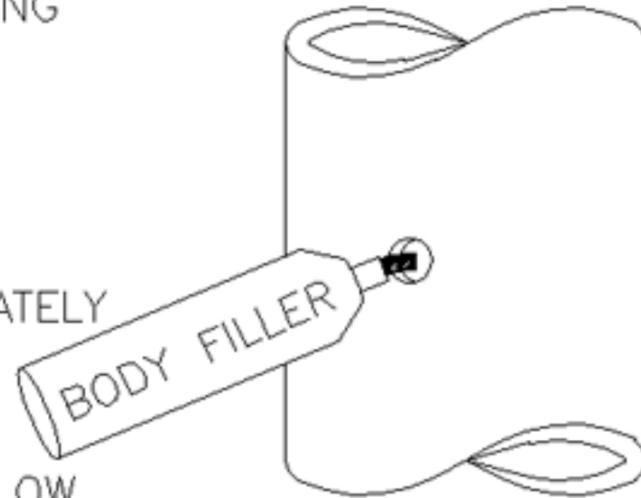
VILLAGE PANEL TO POST

**STEP 1**

FLATTEN THE RING AROUND THE HOLE (LEFT BY THE THREADING PROCESS) WITH A MODERATE BLOW BY A HAMMER

**STEP 2**

PENETRATE HOLE WITH BODY FILLER, LEAVING AN APPROXIMATELY 13mm [1/2"] DIAMETER BUMP OF FILLER, PROTRUDING 3mm [1/8"] BEYOND OUTSIDE SURFACE OF THE POST TO ALLOW FOR SHRINKAGE OF FILLER MATERIAL



**STEP 3**

LET FILLER DRY FOR 24 HOURS

**STEP 4**

AFTER DRIED, REMOVE EXCESS FILLER WITH COARSE SANDPAPER OR FILE

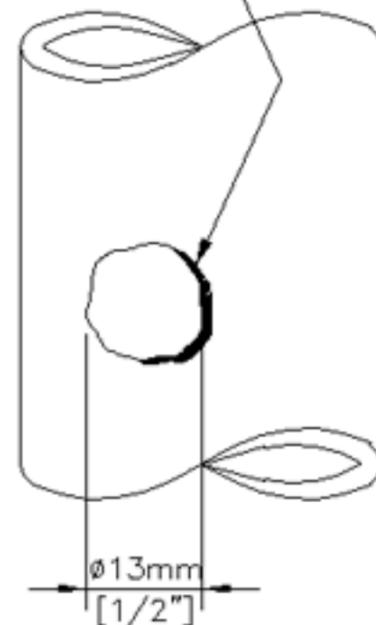
**STEP 5**

FINISH SANDING WITH FINER GRIT SANDPAPER

**STEP 6**

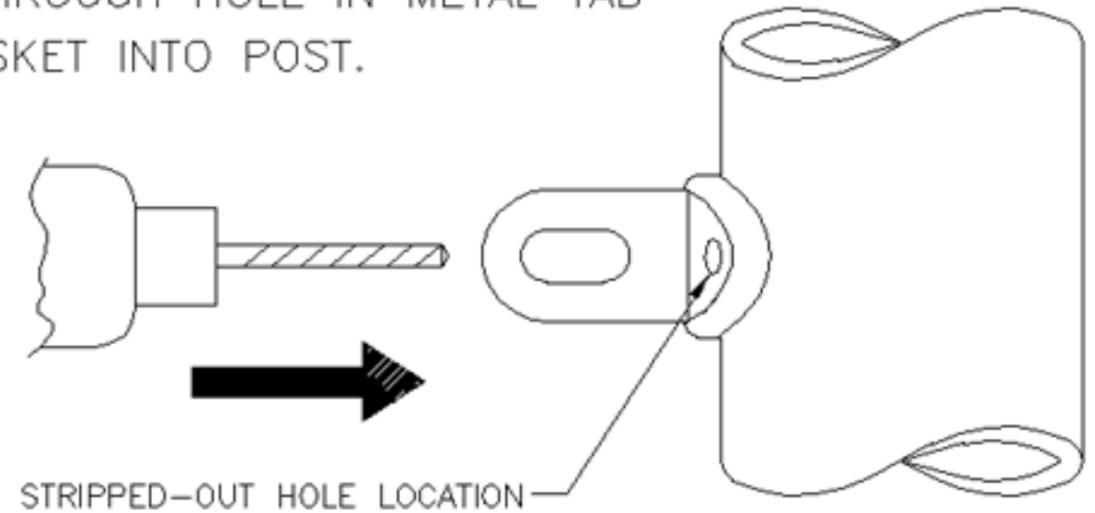
PAINT FILLED AND SANDED AREA WITH TOUCH-UP PAINT

FILLER  
3mm [1/8"] THICK  
ABOVE POST SURFACE



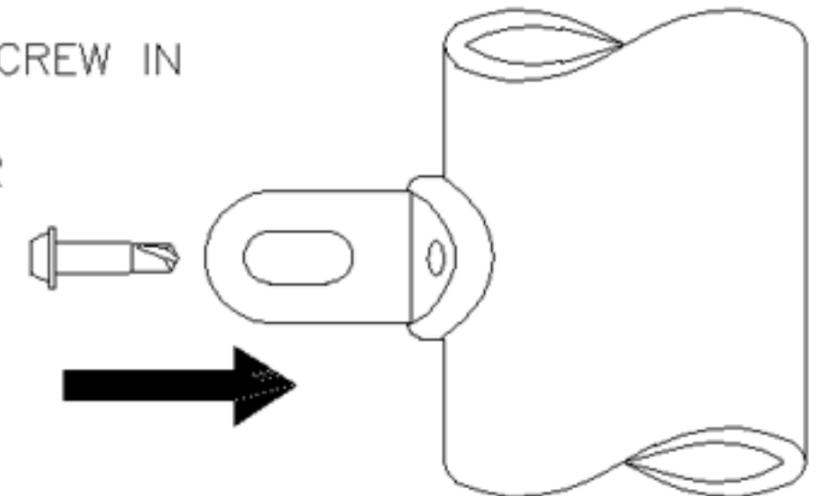
**STEP 1**

USE 5.5mm [7/32"] DRILL BIT TO DRILL THROUGH HOLE IN METAL TAB AND GASKET INTO POST.



**STEP 2**

INSTALL OVERSIZE SCREW IN DRILLED-OUT HOLE WITH DEWALT DRIVER



200074043 - TUBE/ BODY FILLER

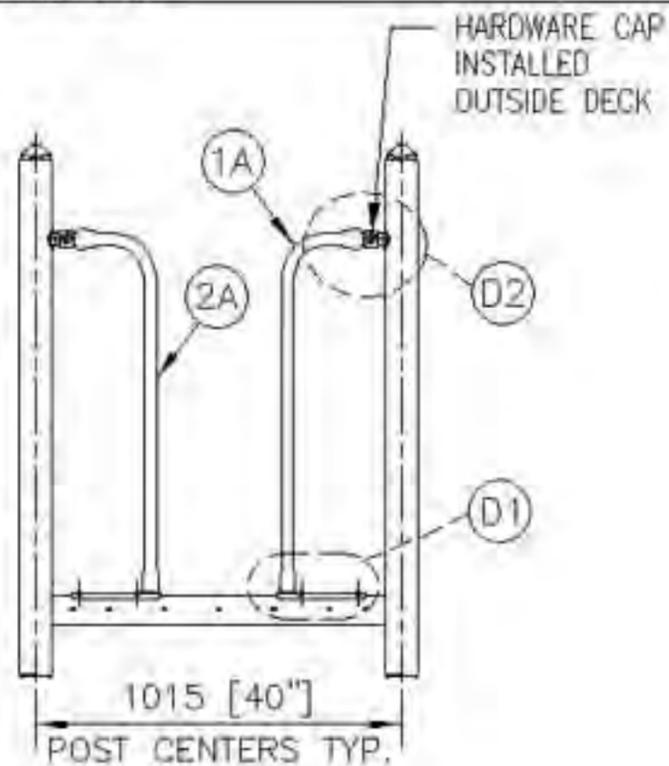
200074042 - OVERSIZE SCREW TYPE A

**HOLE DRILLED AT WRONG LOCATION**

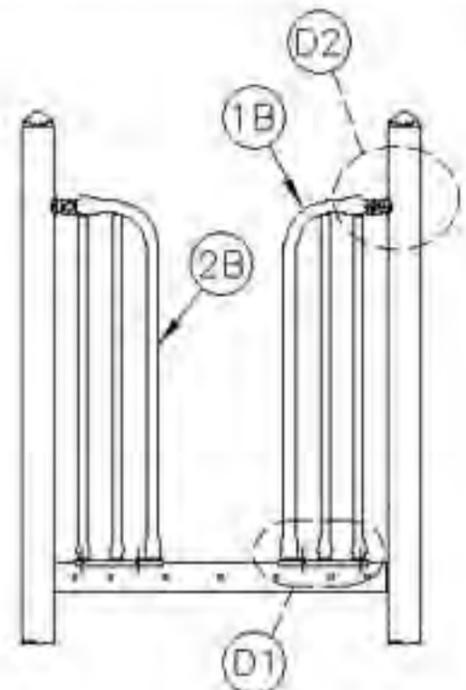
**HOLE STRIPPED OUT**



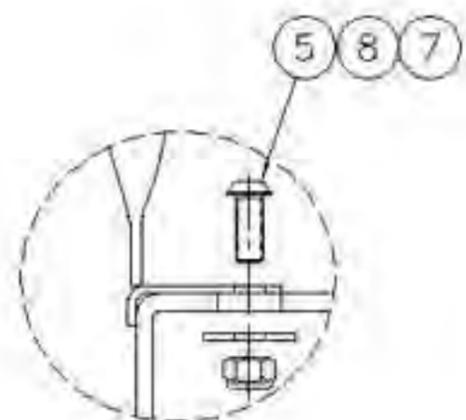
# STEEL LOOPS



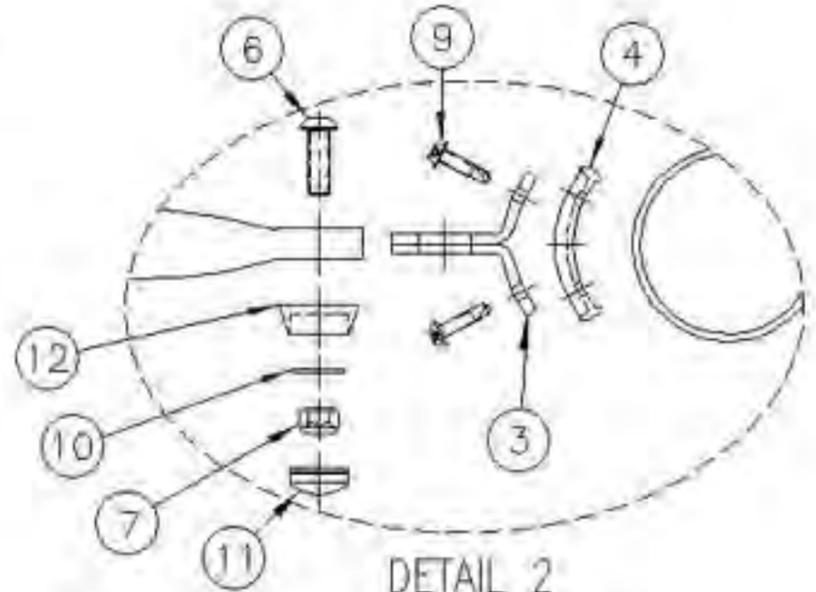
HANDHOLD LOOP



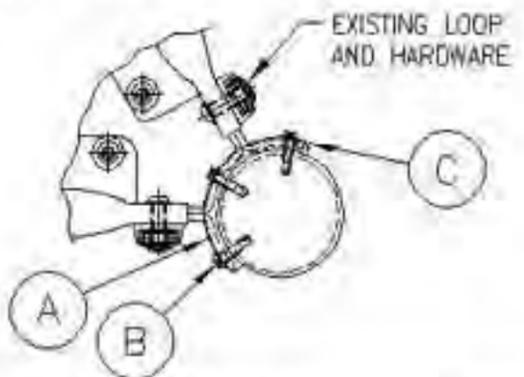
SAFETY LOOP



DETAIL 1  
TYP 4 PL



DETAIL 2  
TYP 2 PL



(NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS)

**PB LOOP HANDHOLD 200058176**

Item	Code	Description	Qty.
1A	-	LOOP HANDHOLD RIGHT F/PB	1
2A	-	LOOP HANDHOLD LEFT F/PB	1
3	-	TAB RAIL 33.4	4
11	-	CAP HDWR COVER	2
12	-	CAP HDWR BASE	2

**HDWR BAG F/PB LOOPS 200053777**

4	200058372	GASKET F/PB TABS (SMALL)	2
5	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25mm	4
6	200002030	SCREW MACH BUTTONHEAD M10 X 1.50 X 30mm	2
7	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	6
8	200002096	WASHER FLAT M10 3400 X 1110 X 3mm THK	4
9	300002750	SCREW T-27 TORX ROUND WASHER HD	4
10	200002079	WASHER FLAT M11 23 X 12 X 1.6mm	2

**PB SAFETY LOOP 200058177**

Item	Code	Description	Qty.
1B	-	LOOP SAFETY RIGHT F/PB	1
2B	-	LOOP SAFETY LEFT F/PB	1
3	-	TAB RAIL 33.4	4
11	-	CAP HDWR COVER	2
12	-	CAP HDWR BASE	2

**HDWR BAG F/PB LOOPS 200053777**

4	200058372	GASKET F/PB TABS (SMALL)	2
5	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25mm	4
6	200002030	SCREW MACH BUTTONHEAD M10 X 1.50 X 30mm	2
7	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	6
8	200002096	WASHER FLAT M10 3400 X 1110 X 3mm THK	4
9	300002750	SCREW T-27 TORX ROUND WASHER HD	4
10	200002079	WASHER FLAT M11 23 X 12 X 1.6mm	2

**BRACKET F/PB TRI-DECK LOOP 200085631**

Item	Code	Description	Qty.
A	-	ASSY BRACKETS F/PB TRI-DECK LOOPS	1

**HDWR BAG F/PB TRI-DECK BRACKET 200085632**

B	300002750	SCREW T-27 TORX ROUND WASHER HD	3
C	200058373	GASKET F/PB PLATE (LARGE)	1

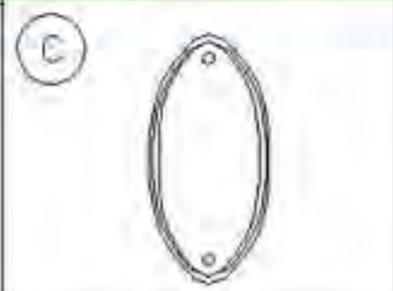
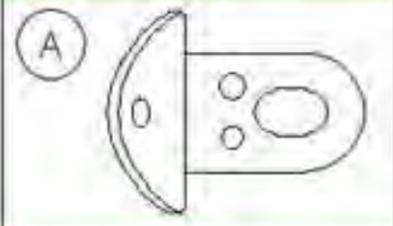
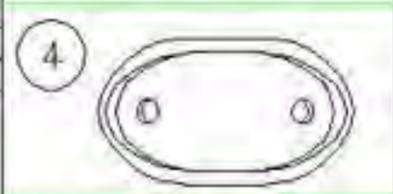
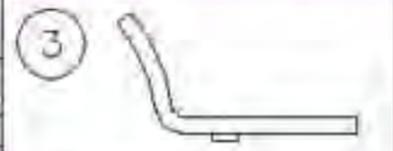
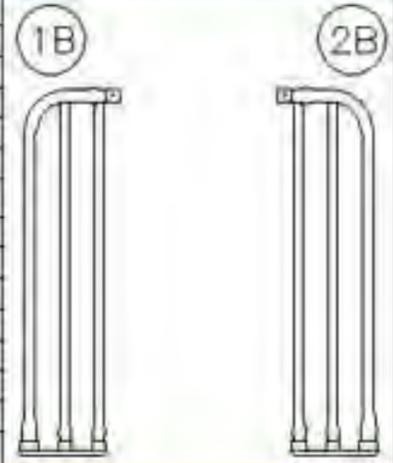
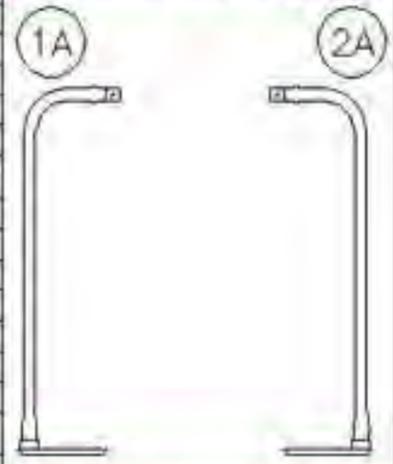
**Application**

- Use handhold loops when deck height is equal to or less than 762mm[30"] for 2-5 age groups.
- Use handhold loops when deck height is equal to or less than 1220mm[48"] for 5-12 age groups.
- Suggested for use on all wheelchair accessible decks.

**Installation Instructions**

1. loosely attach rail tabs to the loops as shown in detail
2. Do not push cap covers in place yet.
3. Attach loop to the deck top. See detail 1.
4. Using the drill provided, fasten the rail tabs to the post, as shown in detail 2.
5. Tighten all hardware and secure cap covers.
6. Add resilient ground cover.

AUTHORIZED BY:  
*Shawn Shabard* 31AUG07



# STEERING WHEEL (PANEL MOUNT)

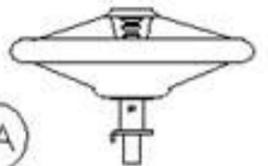
200081707

1900055 F

AUTHORIZED BY: 16AUG07  
*Chris White*

## ASSY. PANEL MT. f/PL. STEERING WHEEL RED 200245783

Item	Code	Description	Qty.
1	-	ASSY. PANEL MOUNT f/ PL. STEERING WHEEL	1



1A

## HDWR BAG F/PANNEL MT.STEERING WHEELS 200145770

Item	Code	Description	Qty.
2	200097726	SCREW MACH BUTTONHEAD M10 X 1.50 X 38MM	1
3	200002100	WASHER FLAT M11 320D X 13ID X 2MM THK	1

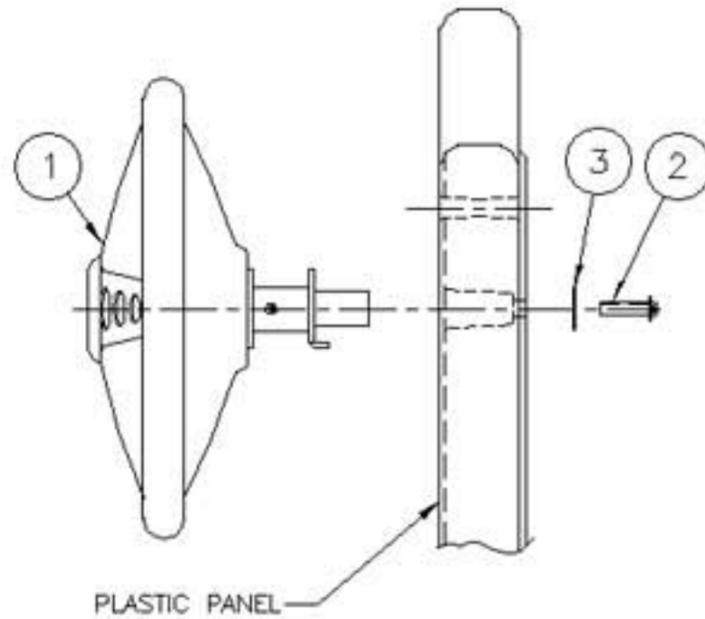
### Application

- Not for use on activity panels or bubble mirror panels.
- Can not be installed on a below deck flat topped panel, on a post, or on a rail. Can install on all bubble, safety, mirror, and sign panels.
- Can be installed on KB, KK, WB2, and PB panels.

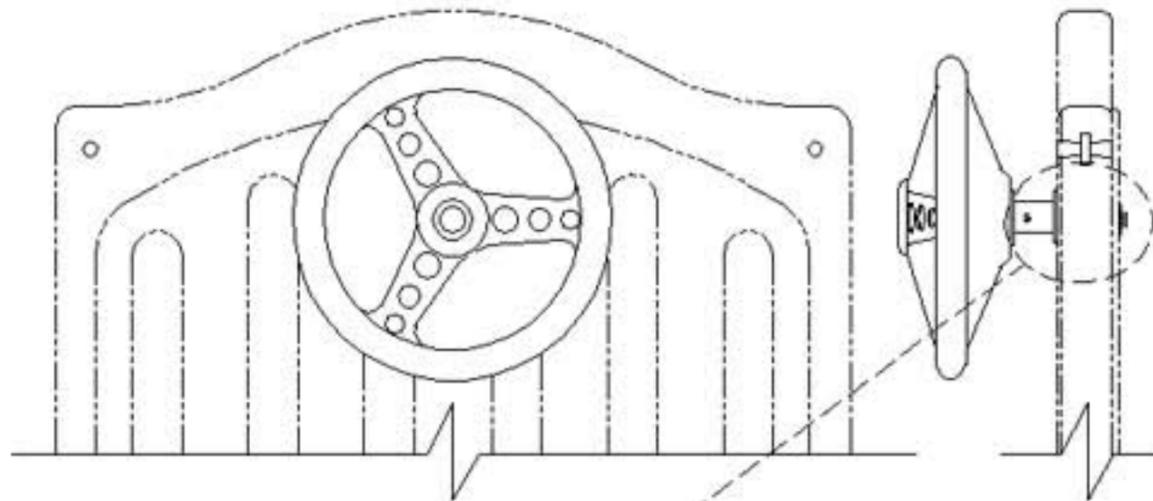
### Installation Instructions

1. To install the plastic steering wheel to a plastic panel, always start by drilling a 13mm (1/2") dia. through hole as shown in the detail.
2. Insert the stub on the Assy. Panel Mount f/Pl. Steering Wheel (item 1) in the hole in the front of the panel and use the screw (item 2) and washer (item 3) through the back of the panel to complete the assembly.

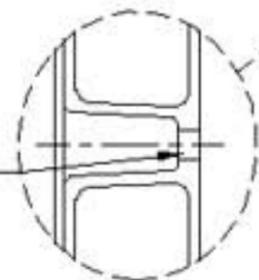
200145770



PLASTIC PANEL



DRILL A 13MM [1/2"] HOLE  
THROUGH THE CENTER  
PANEL HOLE





Project Number: R0324180256

PlayArea: PlayArea\_2 | Traditional Play

Project Name:

Project Location:

Sales Representative:

Northland Recreation  
N49 W34651 Wisconsin Ave  
Okauchee ,WI 53069  
262-313-8636

## Installation Instructions

Please, read all information in this manual before starting to install your equipment.

Date: 4/19/2018 12:00:00 AM



# LOLA THE SNAIL – GARDEN GRUBBIES SPRING RIDERS

R800007G

Sheet 1 of 2

## Pre-Installation Checklist

1. Make sure the site is clear of any hazards such as rocks, debris, tree roots, old concrete footings or anything that protrudes from the ground and may cause a tripping hazard or a head injury.
2. Refer to the layout drawing that has been provided (this drawing will only be provided if modular play structures will also be on the same site). Pay special attention to the recommended fall area boundary. Remember that the drawings are measurable and the scale is located on the drawings.
3. If concrete will need to be poured, make sure to allow at least 48 hours for curing. Arrangements have to be made in advance for installing the fall absorbing ground cover the same day the unit is completed, thus avoiding injuries.

## Installation Instructions (General Notes)

1. Prepare footing as shown in DETAIL 1. Never leave a footing hole exposed or unattended. Covering the hole will help avoid accidents during installation.
2. Before pouring concrete, always check your spring rider orientation and ensure you have a minimum of 6' of unobstructed fall zone surrounding (to be covered with proper resilient fall absorption material).

## Installation Instruction – Inground Footing (NOT BUMBLEBEE)

1. Prepare footing hole and place Base Weldment into hole as shown on sheet 2.
2. Pour in concrete and allow concrete to fully cure before permanently affixing Rider Assembly.
3. Place C-Springs onto Base Weldments as shown on sheet 2.
4. Attach the rider body to the C-Springs as shown on sheet 2 of this installation instruction.
5. Check all hardware for tightness and install resilient surfacing.

## SPRING RIDER SNAIL, LOLA – M00000963 PARTS CARTON PPLT, SNAIL – M00992175

Item	Code	Description	Qty.
1	992175	SNAIL ASSY	1
2	200183517	SPIRING "C" F/SPRING RIDERS BLKW/STKR	1
3	992178AL	FOOTREST WELDMENT	1
4	993157GV	BASE GALVANIZED-C SPRING RIDER	1
5	993503	PARTS CARTON SNAIL PPLT	1

## 993503, PARTS CARTON SNAIL PPLT

Item	Code	Description	Qty.
6	993161GV	PINCH PLATE-C SPRING RIDERS GV 6-1/16"	1
7	HW993176	HRDW PKG 963 S1/1	1

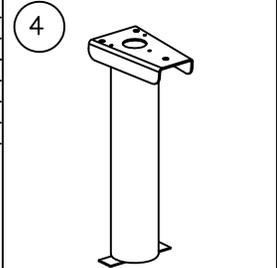
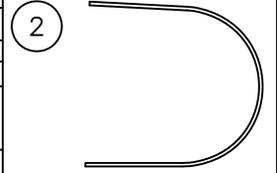
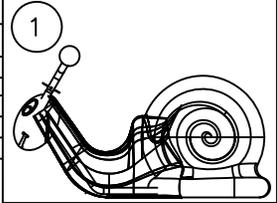
## HRDW PKG 963 S1/1 – HW993176

Item	Code	Description	Qty.
8	104215	BOLT 7/16-14 X 1-1/2 BHCS 6 LOBE 18-8 SS	4
9	104931	BOLT 1/2-13 X 1-5/8 BHCS 6 LOBE 18-8 SS	3
10	110061	NUT 1/2-13 HEX NYLOCK 18-8 SS	3
11	117008	WASHER 7/16 LOCK 18-8 SS	4
12	117020	WASHER 1/2 FLAT 18-8 SS MS-819	6
13	104478	BIT T-50 FOR 7/16 6-LOBE BHD BOLT	1
14	104481	BIT 6-LOBE T-55 FOR 1/2 BOLTS	1

### Note:

(\*): Installed height of seat shall be between 14in. (360MM) and 28in. (710MM) above the finished grade.

AUTHORIZED BY: 10NOV17  
Tracy Archer



## How Much Concrete?

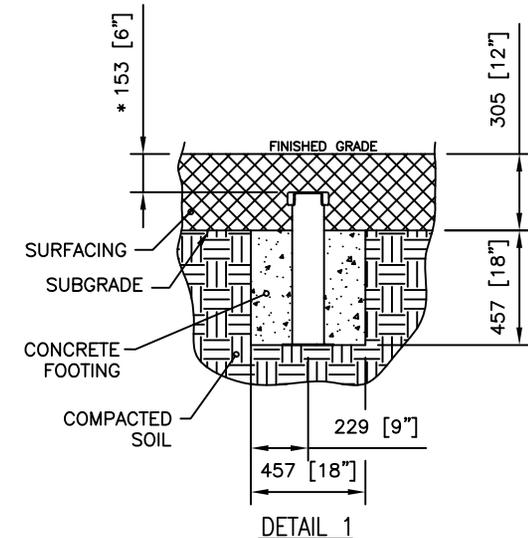
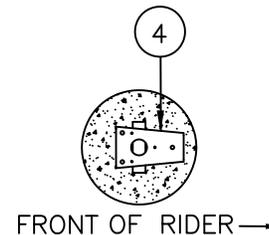
$$\text{Volume of concrete required for footings:} = 0.067 \text{ M} \times \frac{\text{Concrete Depth (mm)}}{915} \times \text{No. of Footing Holes} = \text{M}^3$$

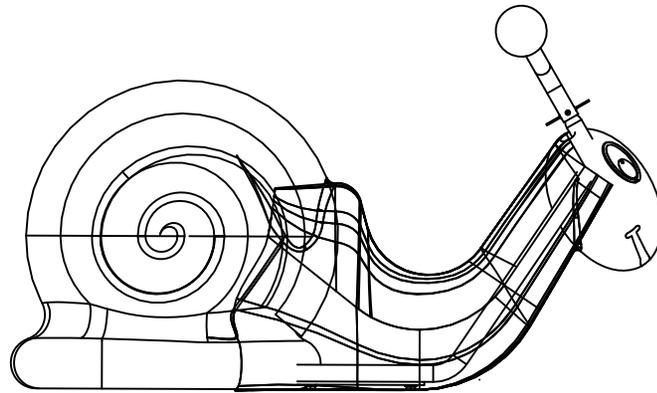
$$= 0.087 \text{ Yard} \times \frac{\text{Concrete Depth (in)}}{36} \times \text{No. of Footing Holes} = \text{Yard}^3$$

### NOTES:

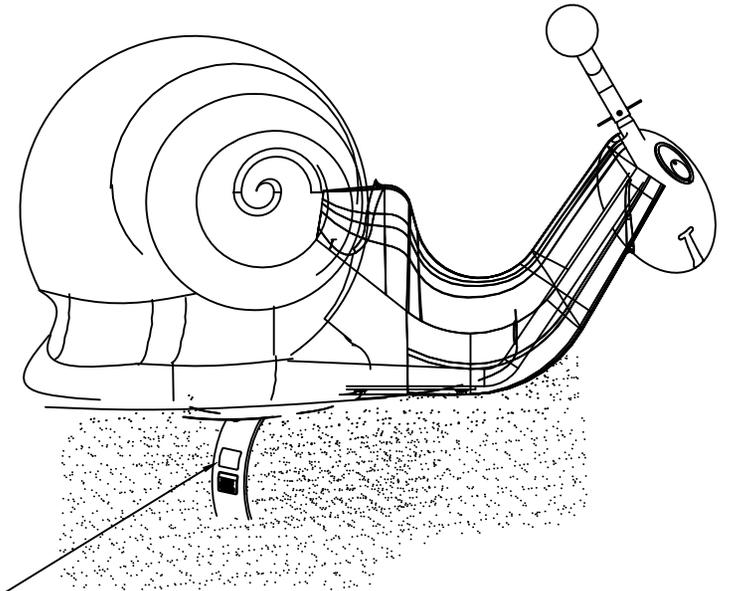
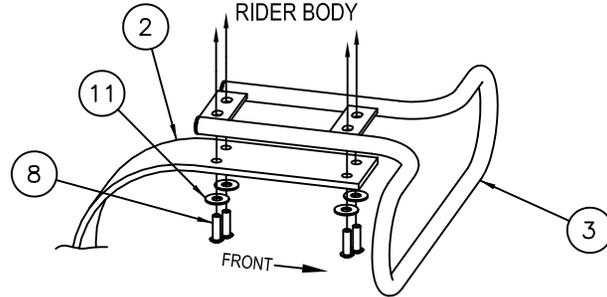
1. To calculate cubic feet, multiply cubic yard by 27.
2. 94 lbs. of concrete = 1 cubic foot.

## FOOTING LAYOUT FOR SNAIL

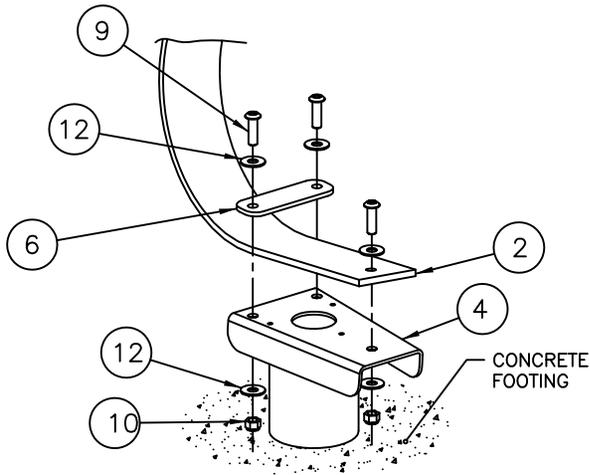




BOTTOM OF  
RIDER BODY



IMPORTANT: FOR IDENTIFICATION  
AND SAFETY PURPOSES APPLY  
STICKERS AS SHOWN.



Make sure open part of C-Spring faces the same direction as front of RIDER.





# GALLAGHER THE GRASSHOPPER – GARDEN GRUBBIES SPRING RIDERS

R800009C

Sheet 1 of 2

### Pre-Installation Checklist

1. Make sure the site is clear of any hazards such as rocks, debris, tree roots, old concrete footings or anything that protrudes from the ground and may cause a tripping hazard or a head injury.
2. Refer to the layout drawing that has been provided (this drawing will only be provided if modular play structures will also be on the same site). Pay special attention to the recommended fall area boundary. Remember that the drawings are measurable and the scale is located on the drawings.
3. If concrete will need to be poured, make sure to allow at least 48 hours for curing. Arrangements have to be made in advance for installing the fall absorbing ground cover the same day the unit is completed, thus avoiding injuries.

### Installation Instructions (General Notes)

1. Prepare footing as shown in DETAIL 1. Never leave a footing hole exposed or unattended. Covering the hole will help avoid accidents during the installation process.
2. Before pouring concrete, always check your spring rider orientation and ensure you have a minimum of 6' of unobstructed fall zone surrounding (to be covered with proper resilient fall absorption material).

### Installation Instruction – Inground Footing (NOT BUMBLEBEE)

1. Prepare footing hole and place Base Weldment into hole as shown on sheet 2.
2. Pour in concrete and allow concrete to fully cure before permanently affixing Rider Assembly.
3. Place C-Springs onto Base Weldments as shown on sheet 2.
4. Attach the rider body to the C-Springs as shown on sheet 2 of this installation instruction.
5. Check all hardware for tightness and install resilient surfacing.

### How Much Concrete?

$$\text{Volume of concrete required for footings:} = 0.067 \text{ M} \times \frac{\text{Concrete Depth (mm)}}{915} \times \text{No. of Footing Holes} = \text{M}^3$$

$$= 0.087 \text{ Yard} \times \frac{\text{Concrete Depth (in)}}{36} \times \text{No. of Footing Holes} = \text{Yard}^3$$

#### NOTES:

1. To calculate cubic feet, multiply cubic yard by 27.
2. 94 lbs. of concrete = 1 cubic foot.

### SPRING RIDER GRASSHOPPER, GALLAGHER – M0000962 PARTS CARTON PPLT, GRASSHOPPER – M00993502

Item	Code	Description	Qty.
1	992104	GRASSHOPPER ASSY	1
2	200183517	SPRING "C" F/SPRING RIDERS BLK/STKR	2
3	993165GV	BASE DOUBLE C-SPRING HOPPY RIDER	8
4	993502	PARTS CARTON GRASSHOPPER PPLT	5

### 993502, PARTS CARTON GRASSHOPPER PPLT

Item	Code	Description	Qty.
5	993166GV	DOUBLE PINCH PLATE-HOPPY RIDER 11 1/8"	1
6	HW993488	HRDW PKG 962 S1/1	1

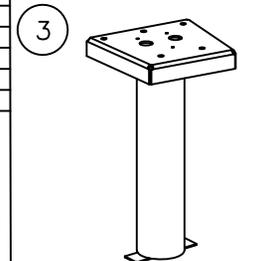
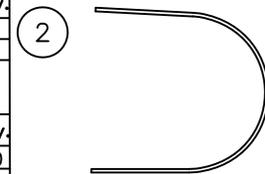
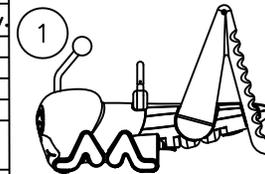
### HRDW PKG 962 S1/1 – HW993488

Item	Code	Description	Qty.
7	117020	WASHER 1/2 FLAT 18-8 SS MS-819	10
8	104215	BOLT 7/16-14 X 1-1/2 BHCS 6 LOBE 18-8 SS	8
9	110061	NUT 1/2-13 HEX NYLOCK 18-8 SS	5
10	104931	BOLT 1/2-13 X 1-5/8 BHCS 6 LOBE 18-8 SS	5
11	117008	WASHER 7/16 LOCK 18-8 SS	8
12	104478	BIT T-50 FOR 7/16 6-LOBE BHD BOLT	1
13	104481	BIT 6 LOBE T-55 FOR 1/2 BOLTS	1

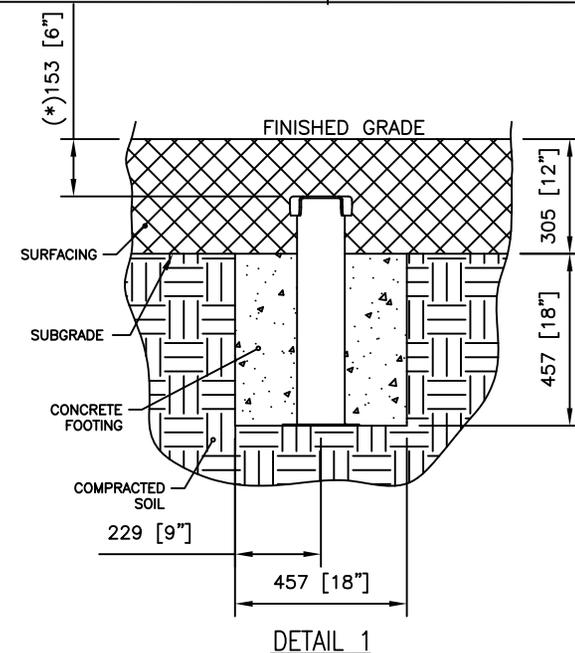
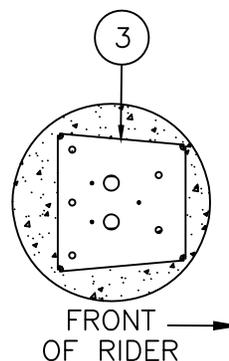
#### Note:

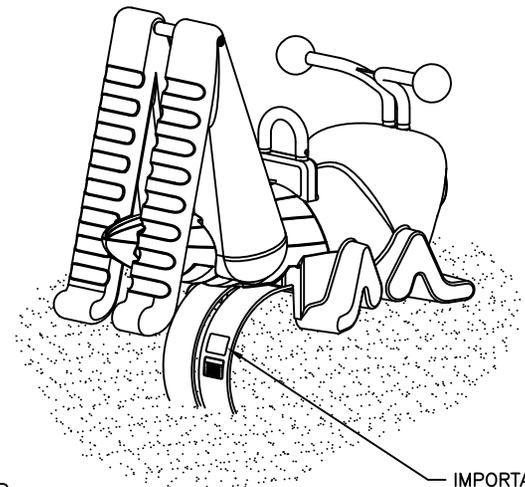
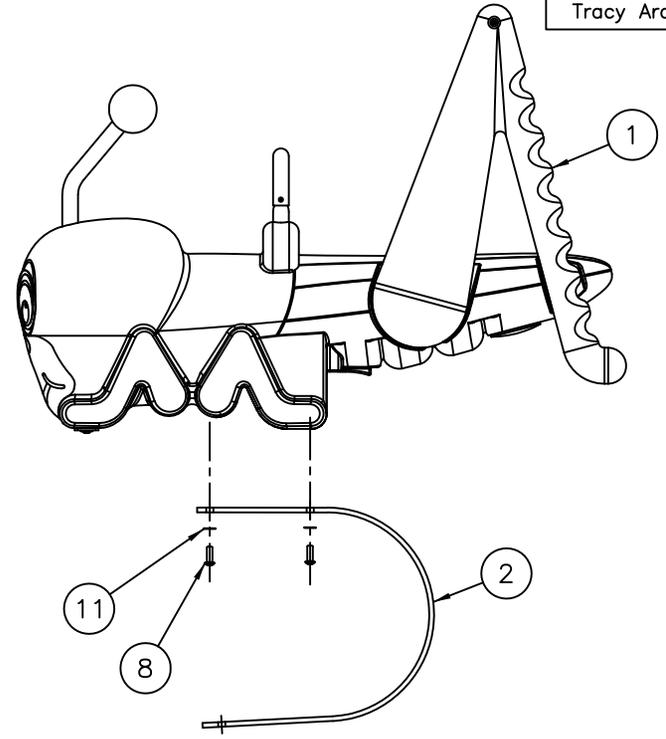
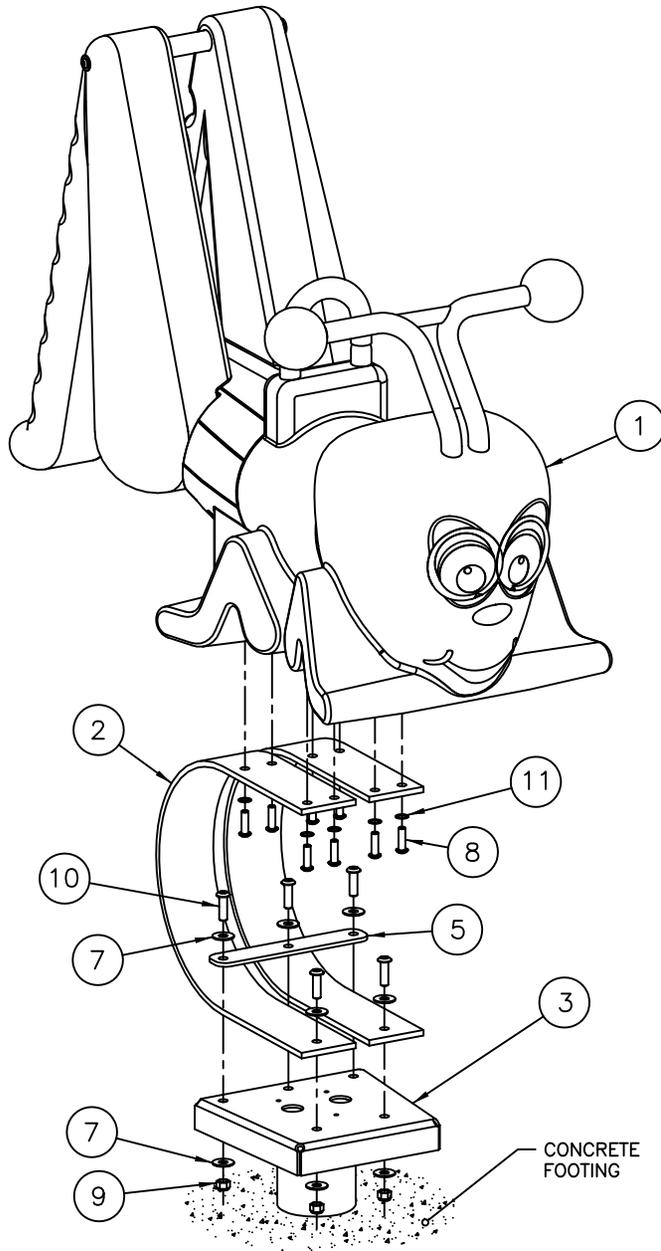
(\*): Installed height of seat shall be between 14in. (360MM) and 28in. (710MM) above the finished grade.

AUTHORIZED BY: 10NOV17  
Tracy Archer



### FOOTING LAYOUT FOR GRASSHOPPER





Make sure open part of C-Spring faces the same direction as front of RIDER.



IMPORTANT: FOR IDENTIFICATION AND SAFETY PURPOSES APPLY STICKERS AS SHOWN.



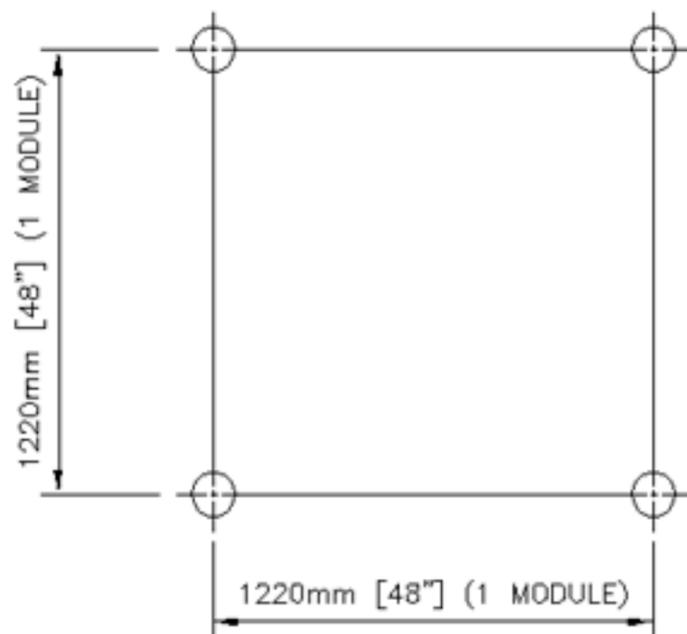
Project Number: R0324180256  
PlayArea: PlayArea\_3 | KidBuilders  
Project Name:  
Project Location:  
Sales Representative:  
Northland Recreation  
N49 W34651 Wisconsin Ave  
Okauchee, WI 53069  
262-313-8636

## Installation Instructions

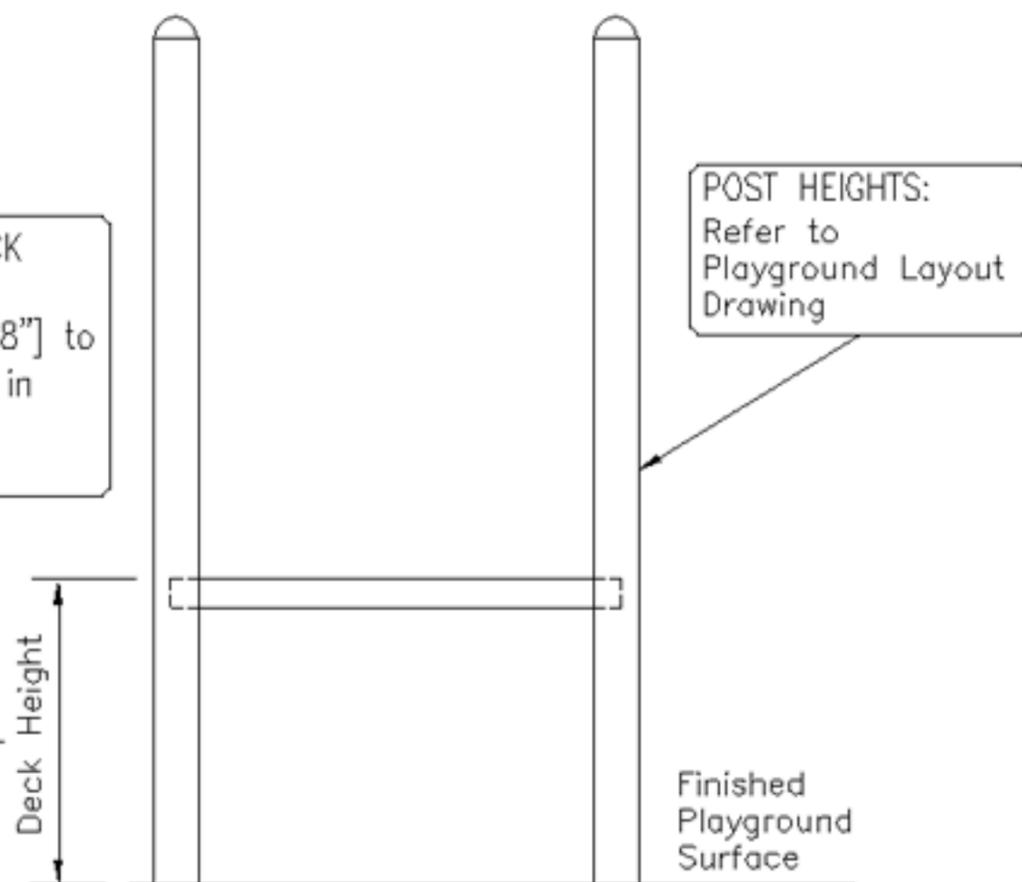
Please, read all information in this manual before starting to install your equipment.

Date: 4/19/2018 12:00:00 AM

Posts and decks of the Kid Builders system are based on a module of 1220mm [48"] x 1220mm [48"]



**STANDARD DECK HEIGHTS:**  
From 203mm[8"] to 2440mm[96"] in 203mm[8"] increments.



**NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS**

BEFORE STARTING INSTALLATION OF YOUR KID BUILDERS PLAYGROUND, "PLEASE READ INSTRUCTIONS THOROUGHLY"

AUTHORIZED BY:  
*Chris M. [Signature]* 15MAR01

**SITE REQUIREMENTS:**

The Kid Builder system is designed to suit a level site. Should there be any falls or slopes on the site, care should be taken to accommodate the entry and exit points and to maintain the correct heights.

The site must be checked for adverse or unusual conditions. i.e.

- 1) Exposed, cracked or loose concrete footings.
- 2) Worn, scattered or compressed surface material.
- 3) Exposed roots, rocks or other environmental obstacles that form potential trip hazards.
- 4) Broken glass, refuse, or foreign objects around and on play equipment.
- 5) Poor drainage areas.
- 6) All sites especially those close to existing buildings must be checked for electrical or gas lines and drainage before digging.

**MAINTENANCE:**

As the owner, it is most important that you are aware of your responsibility for the safe use of your new play equipment. It is necessary to install equipment correctly according to the installation instructions provided and inspect the equipment regularly at intervals specified within the "Maintenance Manual," located in your maintenance kit. During inspection, if any part is found to be damaged or excessively worn, equipment should immediately be put out of service while the part is replaced. Lack of "maintenance" will result in premature wear, reduced life expectancy and possible failure.

All Little Tikes Commercial Play Systems playevents have been designed and engineered to meet all applicable safety guidelines, but if installed improperly, problems may occur such as: protruding hardware, entrapment gaps between 89mm[3.5"] to 228.6mm [9"], or string entanglements. Make certain the runout heights on all slides match what is recommended on the instruction page for that model number. Any accessible bolt ends that protrude beyond the face of the nut by more than two threads should be trimmed and peened smooth by the installer. Once your installation is complete, always inspect your work. Installation must be done to the manufacturer's assembly manual and applicable safety guidelines and/or standards.

**ALL CHILDREN SHOULD BE SUPERVISED WHILE PLAYING ON EQUIPMENT.**

**SAFETY AREAS:**

The area immediately surrounding and above the play structure must be free of obstructions such as: buildings, trees, other play equipment, etc., and must be kept clear for entries, exits, traffic and falls. Make sure your site has the required surfacing and fall area designated on your Playground Layout Drawings.

**INSTALLATION MANUAL:**

We have tried to make this installation manual as comprehensive and factual as possible. Please note from time to time information may be changed or updated. Equipment shown or described throughout this manual may be changed. The right is reserved to make changes at any time without notice.

AUTHORIZED BY:  
*Chris M. [Signature]* 15MAR01

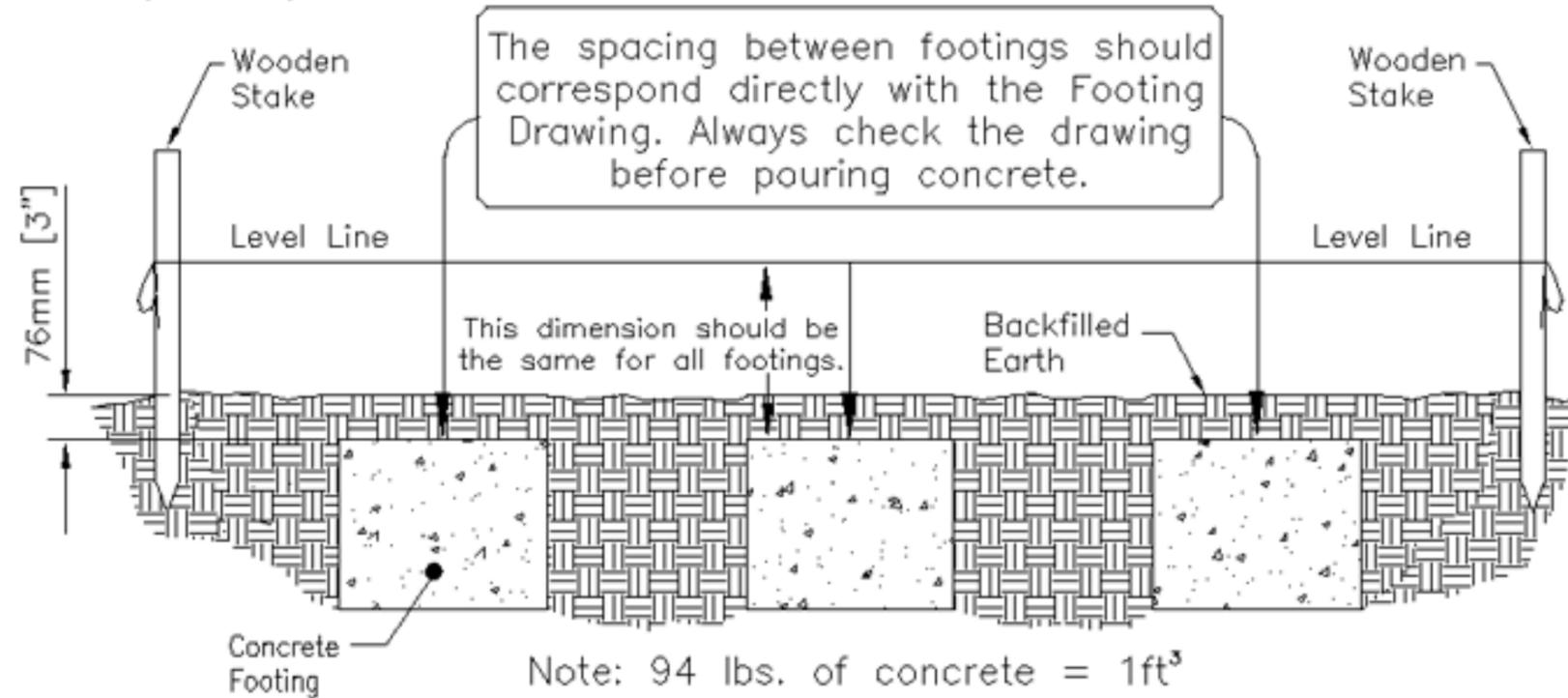
## THE ORDER OF ASSEMBLY:

- 1) Prepare your site. (Consideration is necessary for installing the talk tube on a structure. See Site Preparation Guidelines, or Talk Tube instructions for details.)
- 2) If you are using an Anchor bolt, you will need to pour concrete at least 48 hours in advance. Do not leave any open holes overnight. (Never leave a structure overnight in a potentially hazardous condition, i.e. open footing holes, open decks, exposed concrete, without roping off the area and posting warning signs. It is always best if the construction is scheduled such that the entire installation can be performed in one day, however, with larger structures this may be difficult.)
- 3) Start with the lowest deck and four posts. Calculate the location of the deck top on the first post by adding 991 [39"] to the deck height. Mark the post then install as shown. (See Square Deck installation instructions for further details. **THE INSTALLATION OF THE FIRST DECK IS CRITICAL TO PROPERLY INSTALLING THIS EQUIPMENT, SO MAKE SURE THE POSTS AND DECK ARE AT THE PROPER HEIGHT AND ARE PLUMB AND LEVEL.**)
- 4) Place this assembly in the footings. If you are sure the first deck assembly is correctly positioned, you may pour the four post footings at this time to help stabilize the structure. If installing the Surface Mount method, move the assembly to the proper location. Use the feet as templates, drill bolt holes and secure the structure to the footings.
- 5) If a Deck to Deck Plate, Ladder Panel, or Interstep Deck are to be attached to the first deck, assemble the bottom edge to the deck edge. See individual instructions for details.
- 6) Attach the next deck to two posts and move the posts into the footing holes and level the deck. Attach the two open corners of the deck to the previous deck assembly posts. Finish installing the deck to deck attachment by assembling it to the edge of the upper deck.
- 7) Attach any structure linking events or overheads to the deck assemblies, such as Crawl Tunnels, Clatter Bridges, Burmese Bridges, Suspension Bridges, Challenge Ladders, etc. Continue to add the remaining decks and deck attachments to the existing structure until all platforms are in place.
- 8) Make sure the structure is level and the decks are at the proper height. Install any roofs or enclosures.
- 9) Install all remaining events.
- 10) Tighten all hardware and install clamp drive pins. Be sure to use as many as the instructions call out.
- 11) Place warning labels on the structure. Inspect playground for protruding hardware, entrapment gaps between 89mm [3-1/2"] to 229mm [9"], and string entanglements. Make sure the runout heights on all slides match what is recommended on the instruction page for that model number. Any accessible exposed bolt ends that protrude beyond the face of the nut more than two threads should be trimmed and peened by the installer.
- 12) Install resilient surfacing on the entire "use zone".

## MAKING LEVEL FOOTINGS:

By using wooden stakes and stringing a level line, you can determine the proper height for your concrete. If available, a surveyor's transit will also be helpful.

Determine ground level at the lowest footing location and pour concrete in this location first. This level will be your datum plane. (The point at which all other footing heights are referenced from.) Pour the rest of the footings up to 76mm [3"] from the level of the datum plane. Make sure that all measurements from the top of the poured footing to the level line are the same. (Hint: If installing a surface mount structure, concrete should be poured at least 48 hours in advance of the playground being installed to ensure maximum holding potential.)



Note: 94 lbs. of concrete = 1ft<sup>3</sup>  
207 grams = 0.041m<sup>3</sup>

If installing with the Inground method, you must always backfill footings with at least 76mm [3"] of earth after concrete has cured (not shown).

## SUGGESTED TOOLS:

- |                                       |                                  |
|---------------------------------------|----------------------------------|
| - 2 Magnetic Levels                   | - Extension Cords                |
| - 1 1220 [48"] Carpenter's Level      | - Water Supply/Garden Hose       |
| - 2 Measuring Tapes                   | - Wooden Stakes                  |
| - 1 Felt Tip Pen                      | - Concrete (in some cases)       |
| - 1 Sledge Hammer or Rubber Mallet    | - Some sort of digging equipment |
| - 1 610mm-915mm [24"-36"] Bolt Cutter | - Transit                        |
| - 1 Roll of String                    | - Adjustable Wrenches            |
| - Ratchets for M10 Torx Service Drive | - Metric Socket Set              |
| - Electric Drill                      | - Various Drill Bits             |
| - C-Clamps                            | - Wheel Barrow                   |
| - Saw Horses                          | - Ladders                        |
| - Resilient Ground Cover              | - Generator/ Power Source        |

AUTHORIZED BY:  
*Chris M. [Signature]* 15MAR01

**WARNING**

INSTALLATION OVER A HARD SURFACE SUCH AS CONCRETE, ASPHALT, OR PACKED EARTH MAY RESULT IN SERIOUS INJURY OR DEATH FROM FALLS.

L'INSTALLATION SUR SURFACE DURE TELLE QUE DU CIMENT, DE L'ASPHALTE OU DE LA TERRE BATTUE PEUT CAUSER DE SERIEUSES BLESSURES OU MEME LA MORT EN CAS DE CHUTE.

INSTALACION SOBRE UNA SUPERFICIE DURA, TAL COMO CONCRETO, ASFALTO O TERRENO COMPACTADO, PUEDE PROVOCAR QUE UNA CAIDA CAUSE LESIONES SERIAS O INCLUSO LA MUERTE.

Little Tikes Commercial Play Systems Inc.  
P.O. Box 897  
Farmington, MO 63640

For more information, call Little Tikes Commercial Play Systems Inc. at 1-888-458-2737 or 1-573-756-4591

← This label has been provided by Little Tikes Commercial Play Systems Inc. for the purpose of informing the user of the safety risk involved if a fall onto a hard surface occurs.

It is important when installing your play equipment to display this label in a prominent location on each structure.

This label should be placed such that it will:

- (1) Be readily visible to the intended viewer and,
- (2) Alert the viewer to the potential hazard in time to take appropriate action.

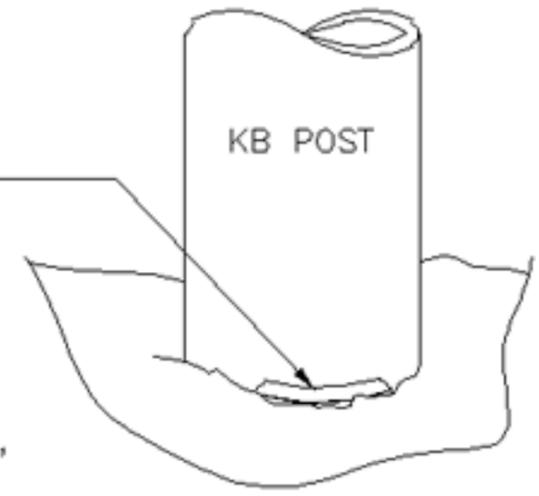
Do not place this label in a high traffic area or in a location of excessive wear. If the label becomes illegible, destroyed, or removed, it is necessary for the operator to replace the label as soon as possible.

**SLIDE INSTALLATION:**

Due to manufacturing variability, the actual slide footing dimensions may vary from the installation instruction dimensions by as much as 50mm [2"]. Actual footing locations should be determined by positioning assembled equipment.

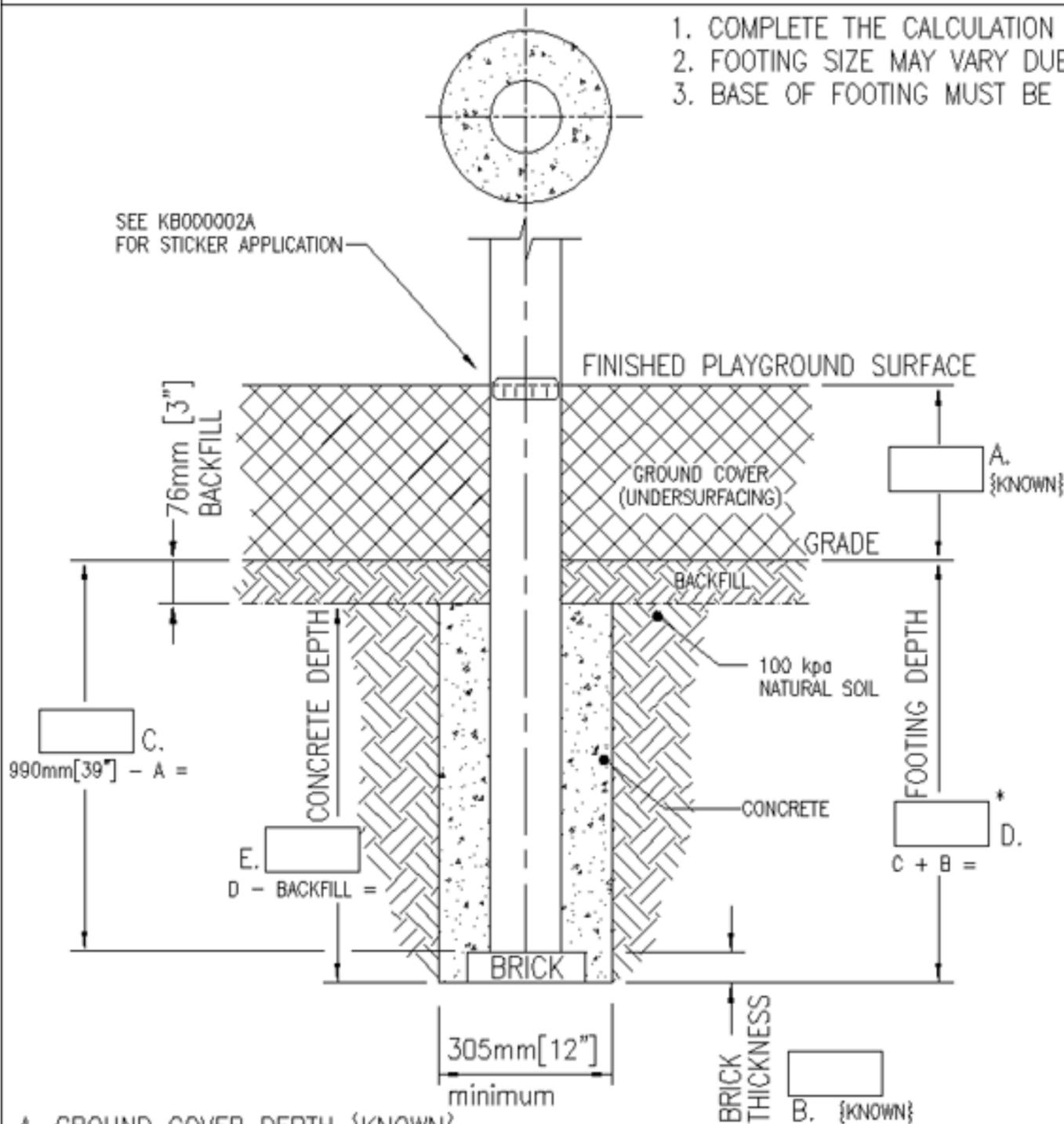
If you are in need of Material Safety Data Sheets pertaining to the use and handling of any maintenance materials such as touch-up paint, vinyl repair kits or for product such as, Kid Tiles adhesive or urethane top coatings, please contact our Customer Service Department at 1(800)325-8828. They will be able to provide you with the information you require.

<b>TOP OF SURFACE</b> <small>INSTALL AND MAINTAIN TOP OF RECOMMENDED SURFACING TO THIS MARK</small>	<b>HASTA A QUI</b> <small>COLOQUE Y MANTENGA HASTA LA MARCA LA SUPERFICIE RECOMENDADA</small>	<b>NIVEAU ZERO</b> <small>POUR L'INSTALLATION ET LA MAINTENANCE LA SURFACE AMORTISSANTE DOIT ATTEINDRE CE NIVEAU</small>
--	--	---



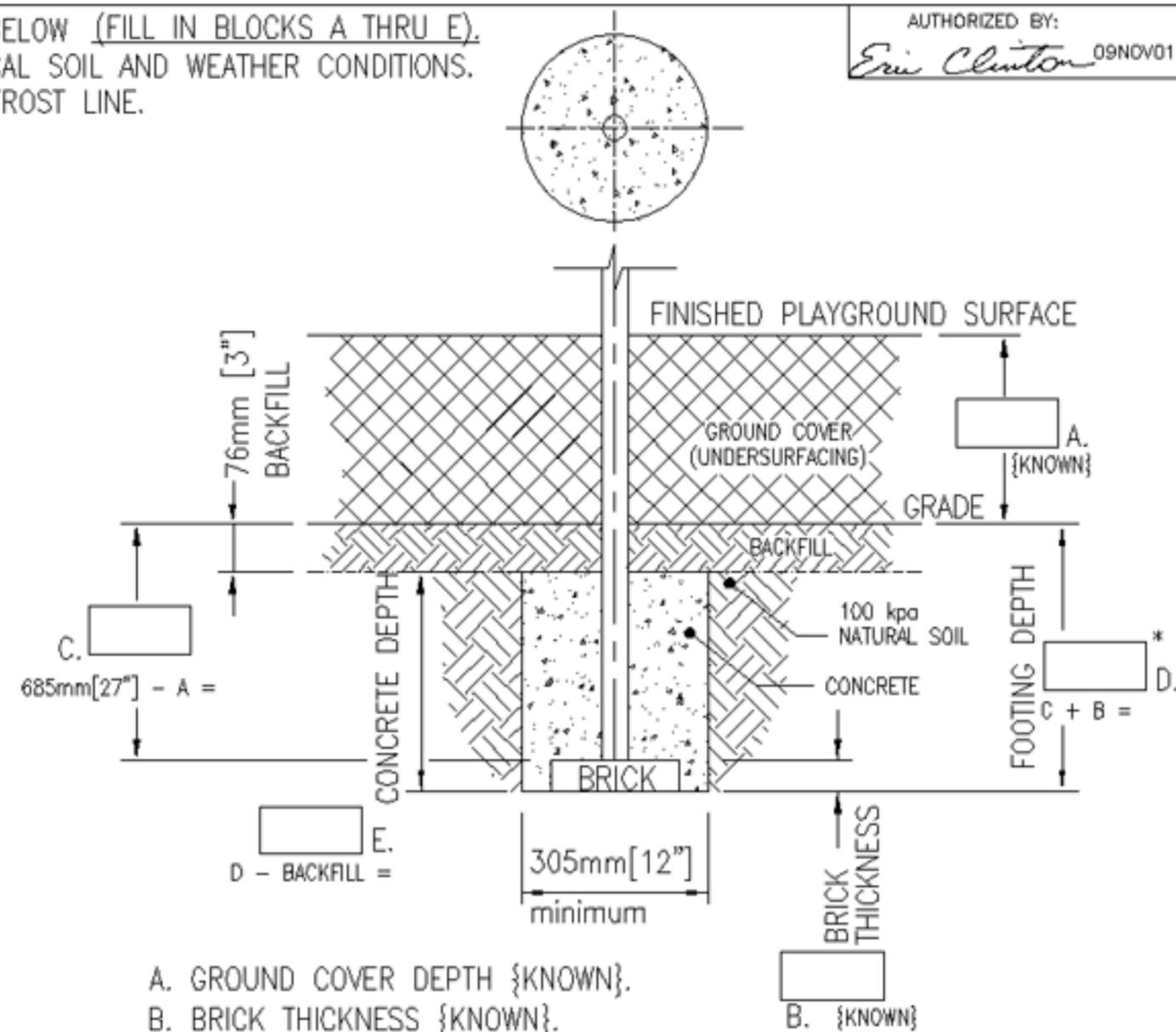
The sticker shown here has been provided to assist with the maintenance of your ground cover. After installing the ground cover, these stickers should be placed on the post by the installer (as shown). Peel the backing away from the sticker and attach it to the post so that the line is level with the top of your ground cover. As erosion or compaction of surfacing occurs, the line will be visible. This will indicate that it is time to add material to your surfacing.

1. COMPLETE THE CALCULATION SHEET BELOW (FILL IN BLOCKS A THRU E).
2. FOOTING SIZE MAY VARY DUE TO LOCAL SOIL AND WEATHER CONDITIONS.
3. BASE OF FOOTING MUST BE BELOW FROST LINE.



- A. GROUND COVER DEPTH {KNOWN}.
- B. BRICK THICKNESS {KNOWN}.
- C.  $990\text{mm}[39"] - A$  BECAUSE  $A + C$  SHOULD ALWAYS EQUAL  $990\text{mm}[39"]$
- D. FOOTING DEPTH =  $[C] + \text{BRICK THICKNESS}$ .
- \*MINIMUM  $610\text{mm}[24"] + \text{BRICK THICKNESS}$  FOOTING DEPTH REQUIRED
- E. CONCRETE DEPTH = FOOTING DEPTH  $[D] - 76\text{mm}[3"]$  (BACKFILL).

## KB POST FOOTING - INGROUND



- A. GROUND COVER DEPTH {KNOWN}.
- B. BRICK THICKNESS {KNOWN}.
- C.  $685\text{mm}[27"] - A$
- BECAUSE  $A + C$  SHOULD ALWAYS EQUAL  $685\text{mm}[27"]$
- D. FOOTING DEPTH =  $[C] + \text{BRICK THICKNESS}$ .
- \*MINIMUM  $305\text{mm}[12"] + \text{BRICK THICKNESS}$  FOOTING DEPTH REQUIRED
- E. CONCRETE DEPTH = FOOTING DEPTH  $[D] - 76\text{mm}[3"]$  (BACKFILL).

## KB PLAYEVENT FOOTING - INGROUND

HOW MUCH CONCRETE?

VOLUME OF CONCRETE REQUIRED FOR FOOTINGS:

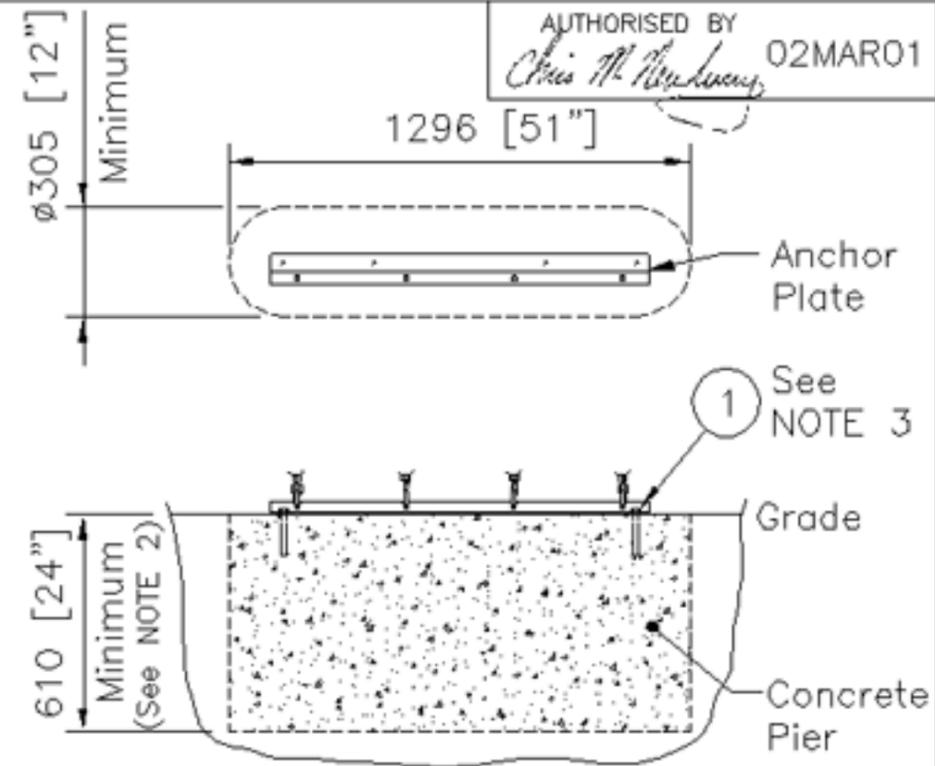
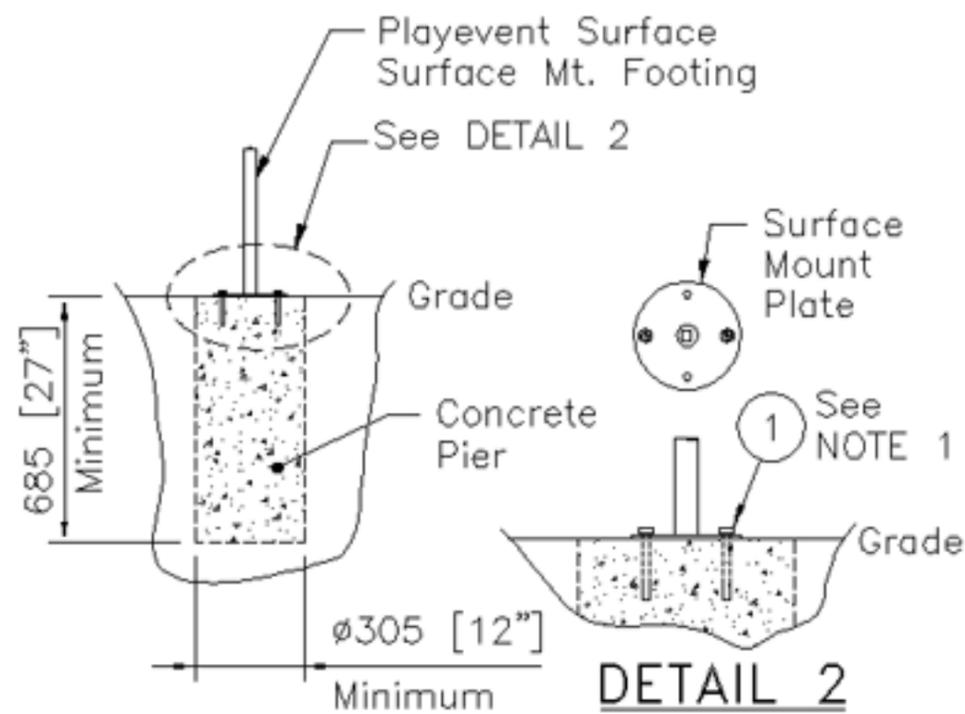
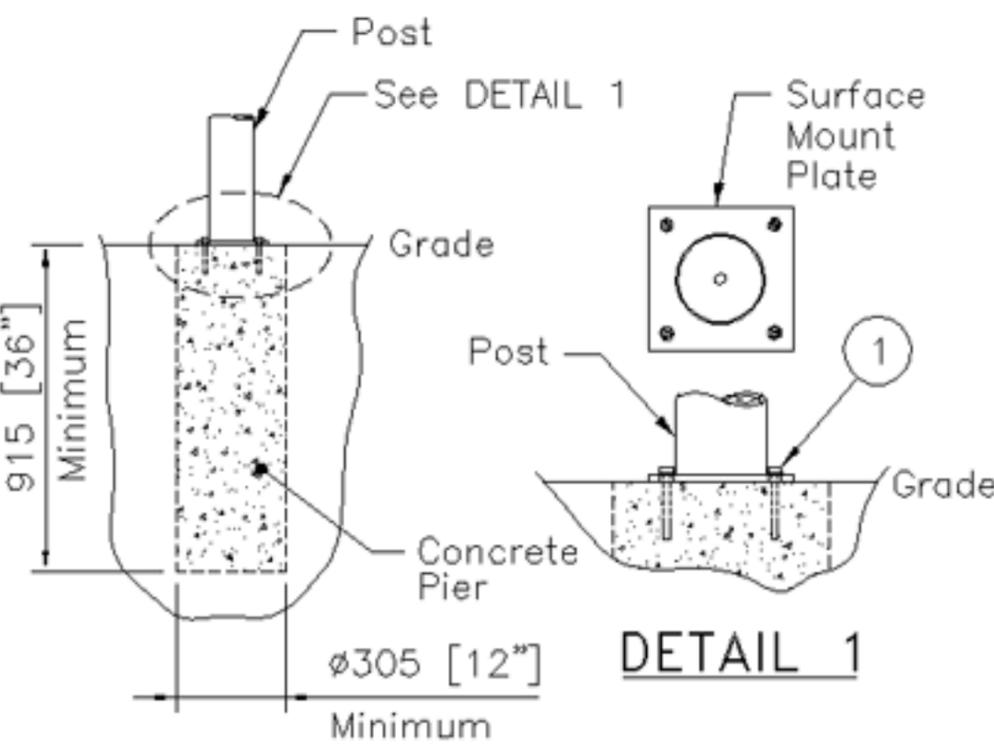
=  $0.067 \text{ M}^3 \times \left\{ \frac{\text{CONCRETE DEPTH (mm)}}{915} \right\} \times \text{No. OF FOOTING HOLES} = \text{M}^3$

=  $0.087 \text{ Yard}^3 \times \left\{ \frac{\text{CONCRETE DEPTH (IN)}}{36} \right\} \times \text{No. OF FOOTING HOLES} = \text{Yard}^3$

NOTES: - TO CALCULATE CUBIC FEET, MULTIPLY CUBIC YARD BY 27  
 - 94 lbs OF CONCRETE = 1 CUBIC FOOT.

AUTHORISED BY  
*Chris M. [Signature]* 02MAR01

## OPTION 1: PIER



**NOTE 1:** Two per plate, diagonally located.

**NOTE 2:** Depth is less than round anchor because of extra volume of concrete.

**NOTE 3:** Anchor bolts shown on ends, but can be moved to other holes if necessary for accessibility.

### Round Anchor

### Anchor Plate

Item	Dwg Ref	Description	Qty.
1	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100MM	4

### Post Footing

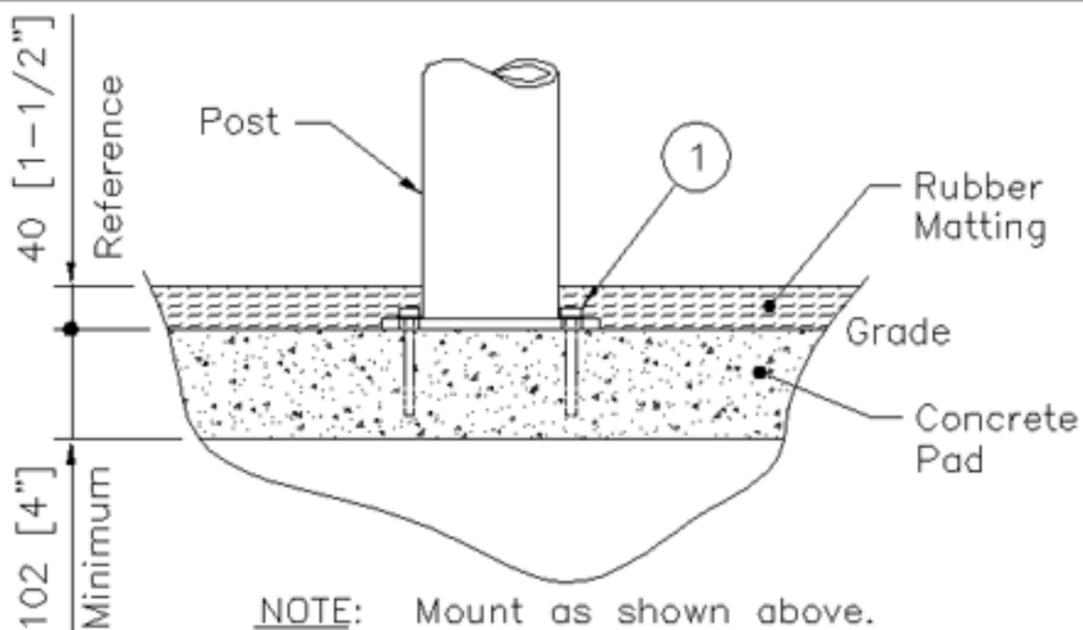
Item	Dwg Ref	Description	Qty.
1	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100MM	2

### Playevent Footing

## OPTION 2: CONCRETE PAD

**NOTE 4:** Concrete may require up to 3 days to cure.

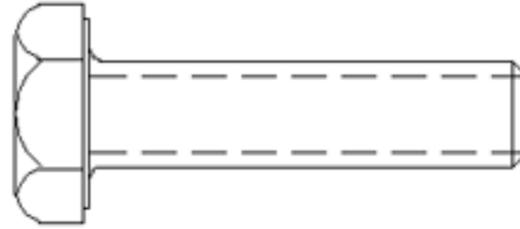
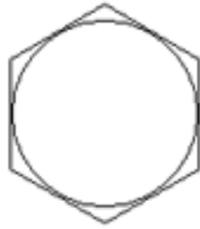
**NOTE 5:** A 3/8" Masonry bit is required to install anchor bolts.



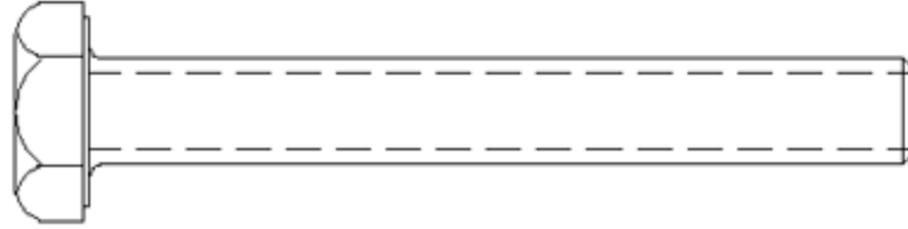
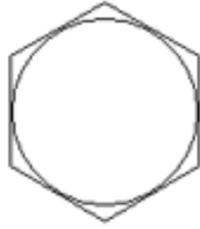
**NOTE:** Mount as shown above.

AUTHORIZED BY:  
*Chris M. Newberry* 01MAR01

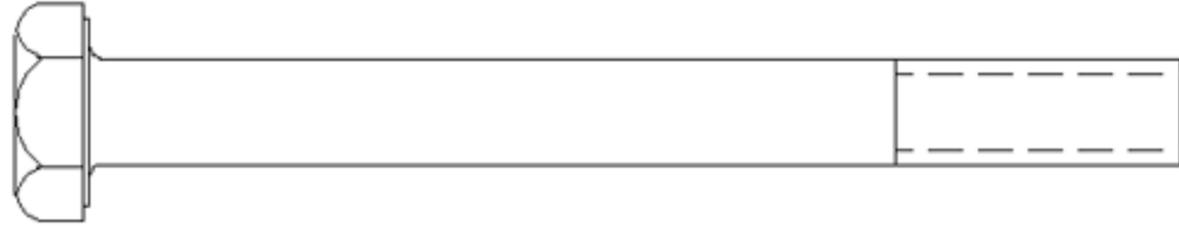
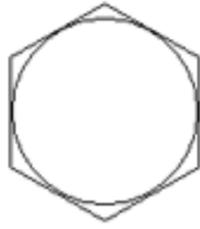
200001850  
CAP SCREW HEX HEAD M10 x 1.50 x 40mm



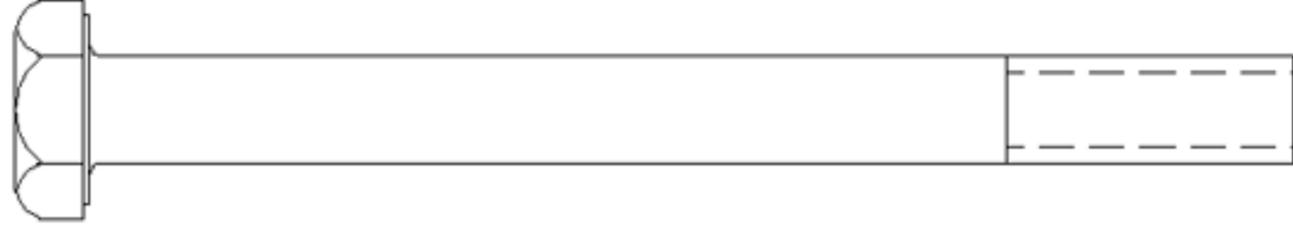
200001859  
CAP SCREW HEX HEAD M10 x 1.50 x 75mm



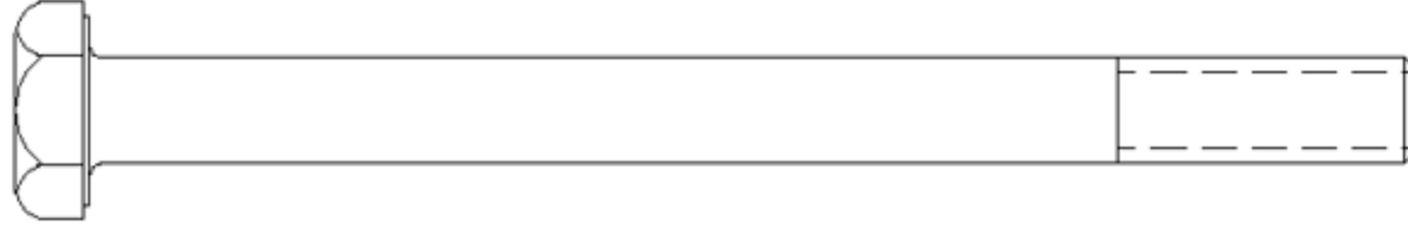
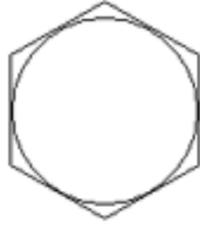
200001866  
CAP SCREW HEX HEAD M10 x 1.50 x 100mm



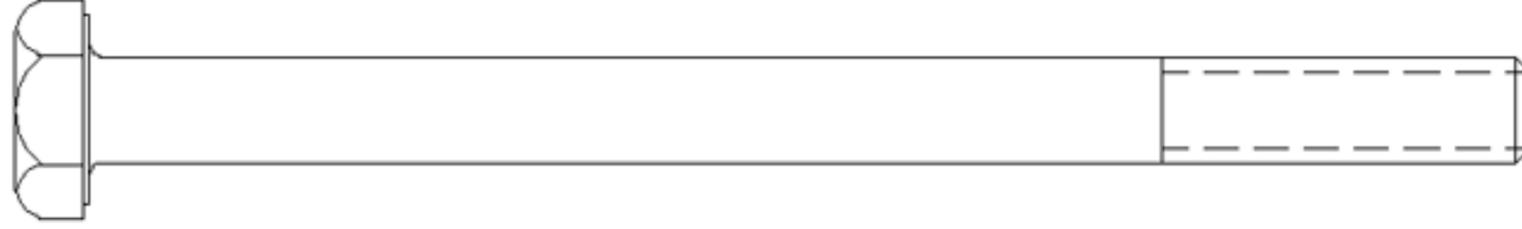
200001875  
CAP SCREW HEX HEAD M10 x 1.50 x 110mm



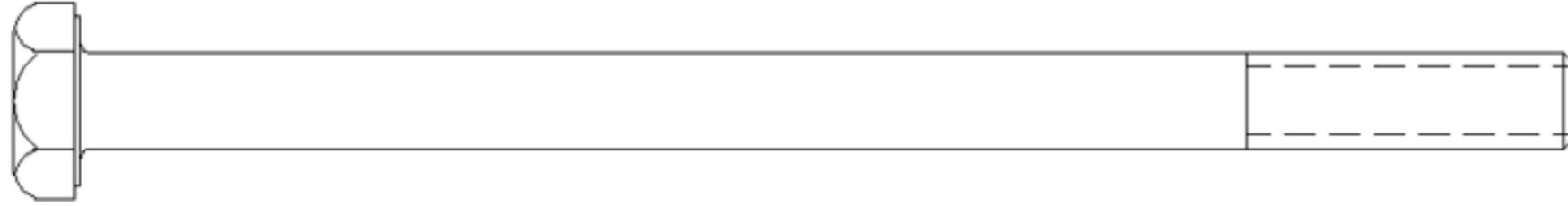
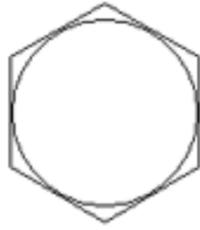
200001879  
CAP SCREW HEX HEAD M10 x 1.50 x 120mm

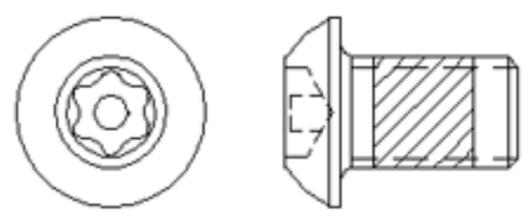


200001883  
CAP SCREW HEX HEAD M10 x 1.50 x 130mm

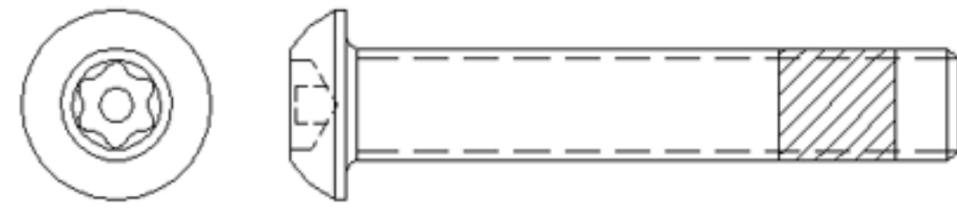


200000792  
CAP SCREW HEX HEAD M10 x 1.50 x 150mm

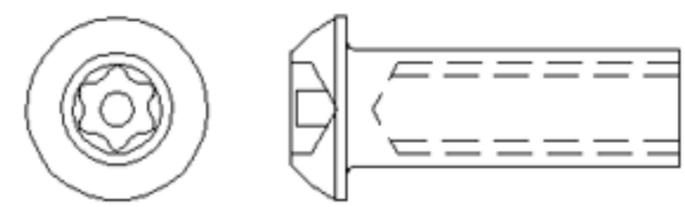




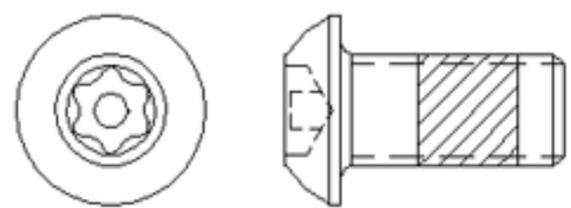
200002010  
SCREW MACH BUTTONHEAD M10 x 1.50 x 16mm



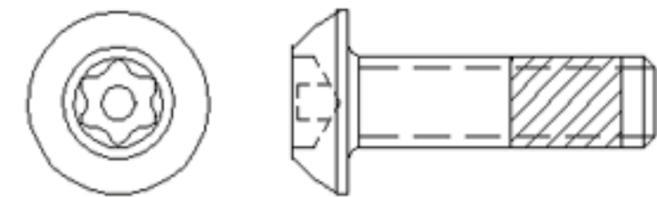
200002150  
SCREW MACH BUTTONHEAD M10 x 1.50 x 55mm



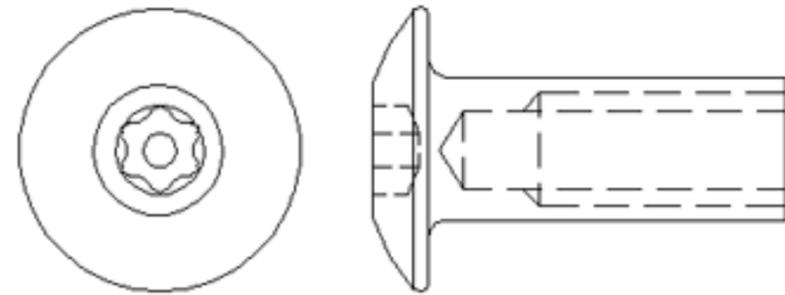
200002145  
BOLT M8 x 1.25 FEMALE 10.3 x 30mm



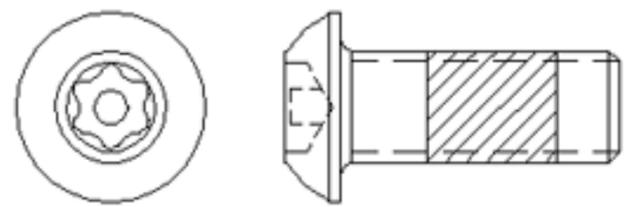
200002014  
SCREW MACH BUTTONHEAD M10 x 1.50 x 20mm



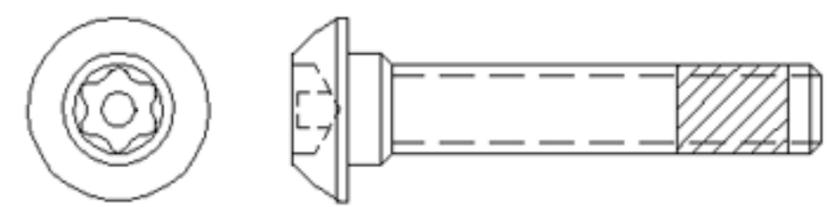
200002133  
BOLT M8 x 1.25 MALE 27.5mm



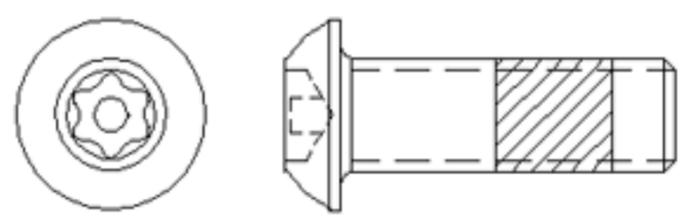
200001954  
BARREL NUT M10 X 1.50 (12.70 DIA x 32mm)



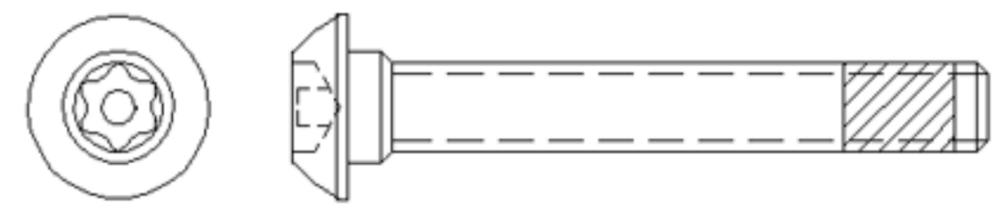
200002018  
SCREW MACH BUTTONHEAD M10 x 1.50 x 25mm



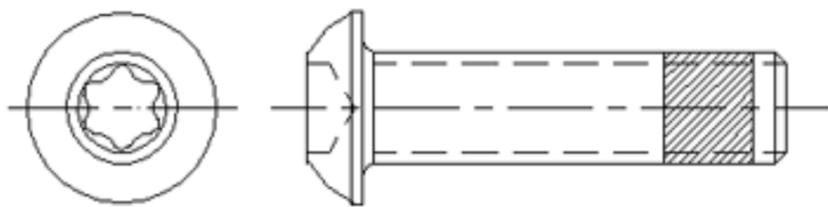
200002138  
BOLT M8 x 1.25 MALE 42.5mm



200002030  
SCREW MACH BUTTONHEAD M10 x 1.50 x 30mm

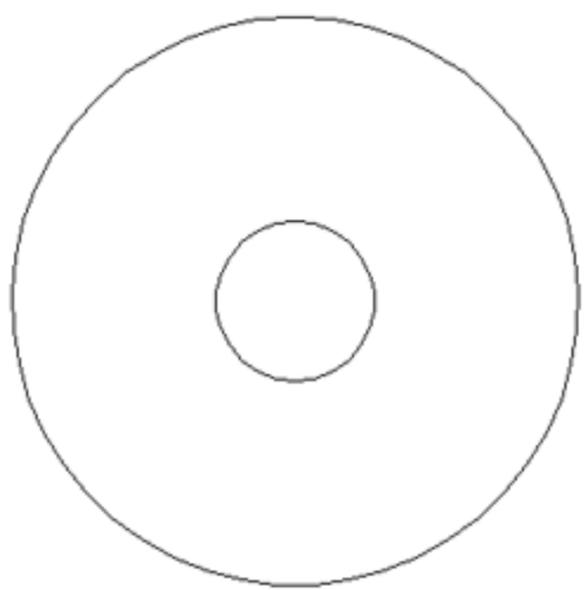


200002142  
BOLT M8 x 1.25 MALE 57.5mm

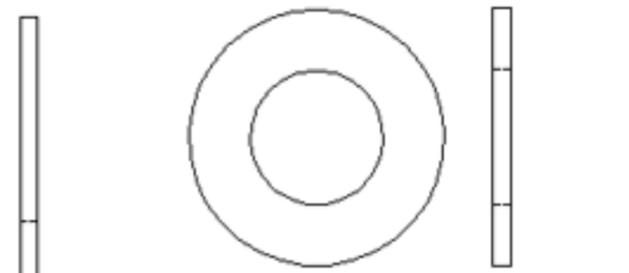


200097726  
SCREW MACH BUTTONHEAD M10 x 1.50 x 38mm

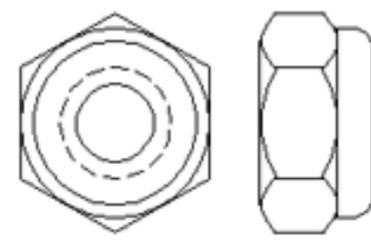
AUTHORIZED BY:  
BARRY WILFONG 15FEB12



200002113  
WASHER FLAT M12 (51 x 14.5 x 2mm)



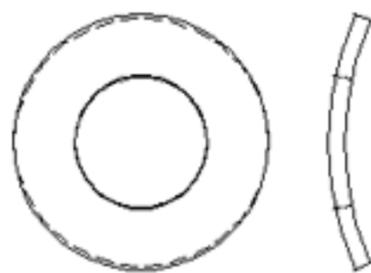
200002079  
WASHER FLAT M11 23 x 12 X 1.6mm



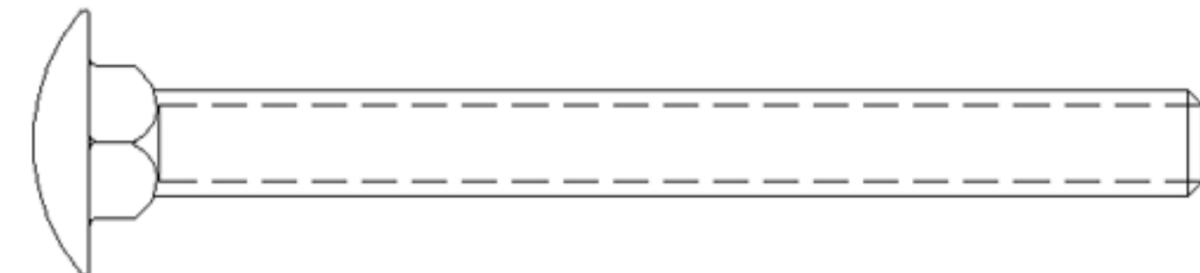
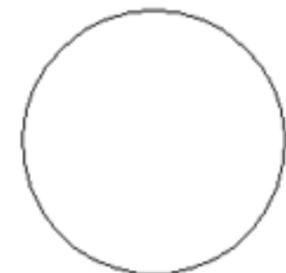
200001945  
NUT LOCK HEX NYLON INSERTED M10 x 1.5



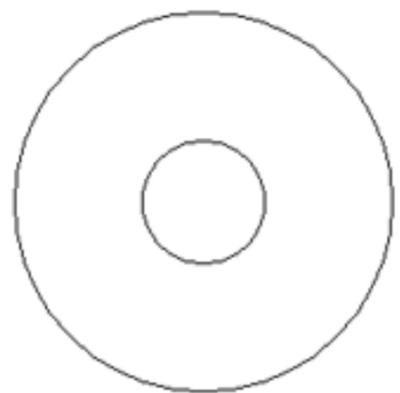
200002002  
SCREW DRILL HEX HEAD M6 .3 x 1.81 x 65mm



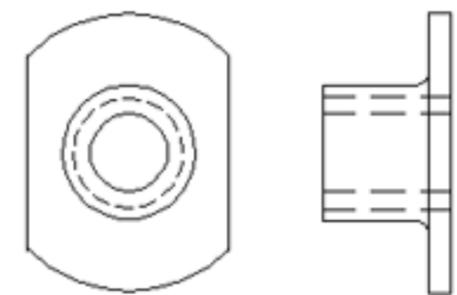
200008483  
WASHER BOWED M11 23.5 x 11.7 x 1.57 mm



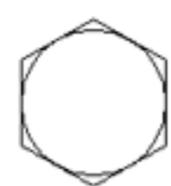
200001810  
BOLT CARRIAGE M10 x 1.50 x 100mm



200002096  
WASHER FLAT M10 34OD x 11ID x 3 mm THK



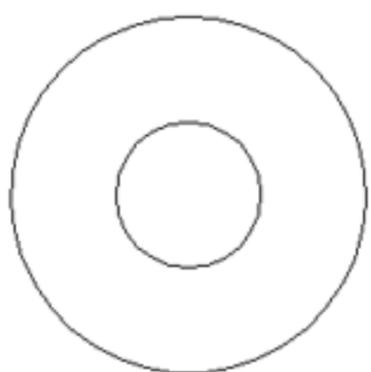
200001966  
T-NUT SLAB BASE M10 x 1.50 x 9.5mm



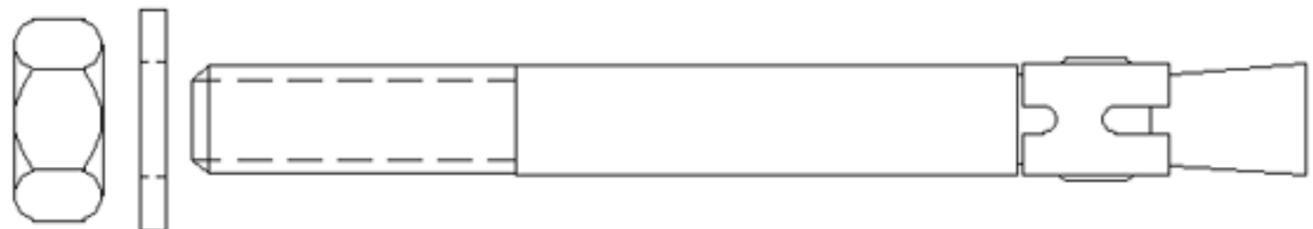
200001826  
CAP SCREW HEX HEAD M8 X 1.25 X 75mm



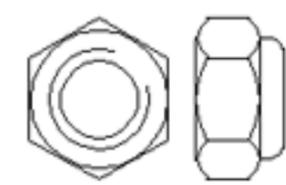
200001986  
SCREW U-DRIVE ROUND HEAD M5 x 16mm



200002100  
WASHER FLAT M11 32OD x 13ID x 2 mm THK



200001776  
ANCHOR CONCRETE WEDGE M10 x 1.5 x 100mm



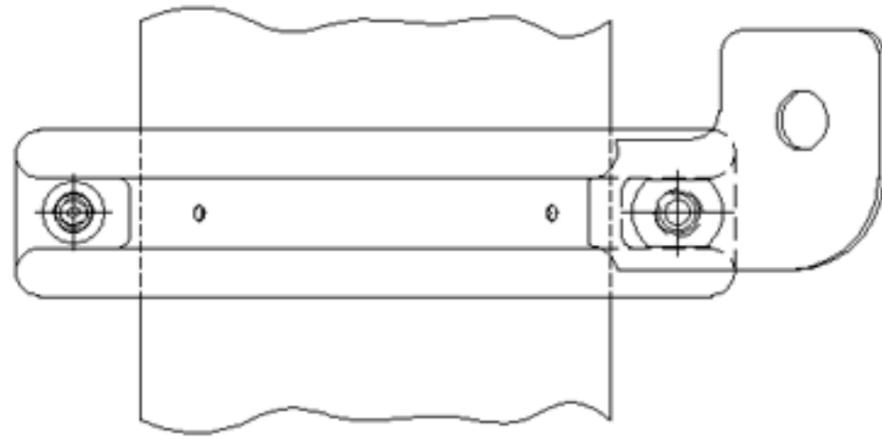
200001934  
NUT LOCK HEX NYLON INSERTED M8 x 1.25



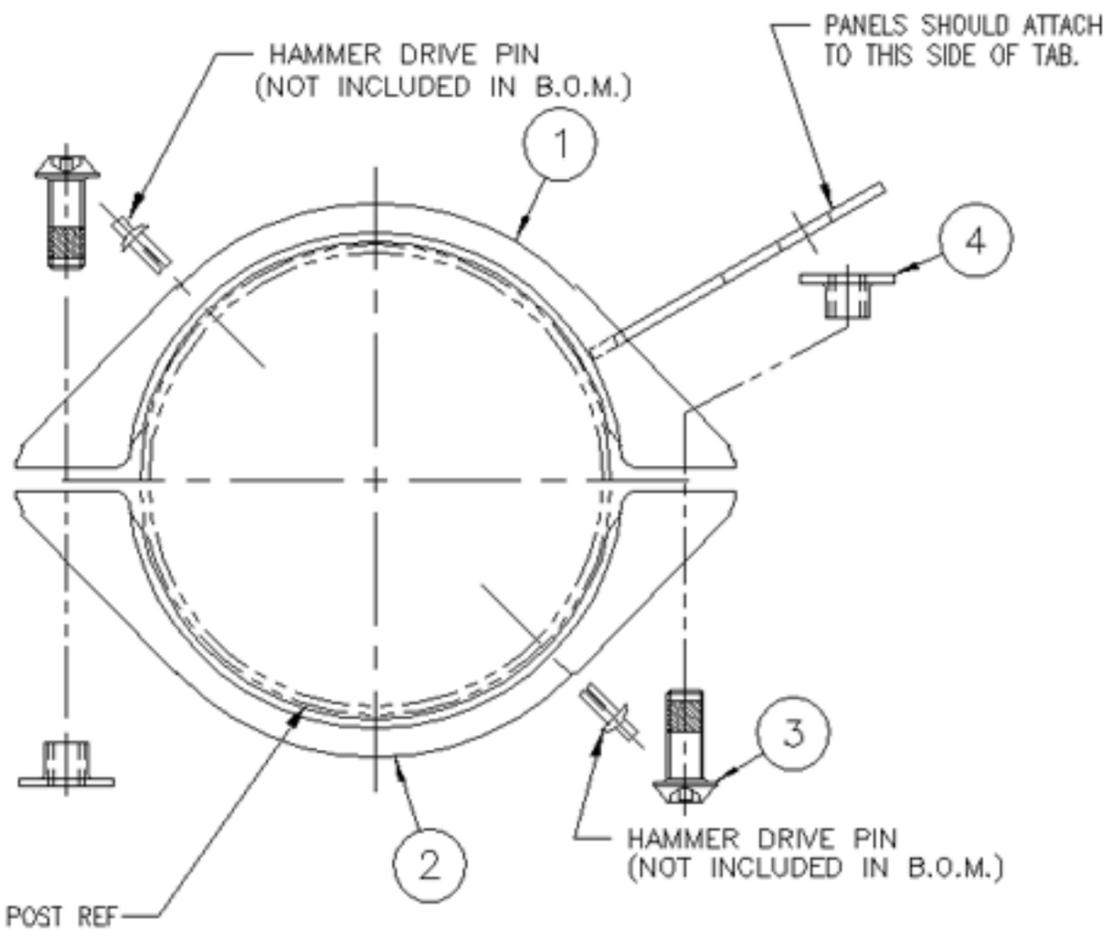
# CLAMP HI-LO TAB F/KB

# CLAMP HI-LO TAB F/KB

200079200



**NOTE:**  
TAB WILL BE DIRECTED UP (AS SHOWN) ON ONE SIDE OF THE PANEL AND DOWN ON THE OTHER SIDE OF THE PANEL



NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

## CLAMP HI-LO TAB F/KB

Item	Dwg Ref	Description	Qty.
1	-	CLAMP HI-LO TAB F/ KB	1
2	-	CLAMP HALF W/O WELDED ATTACHMENT	1
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	2
4	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	2

## Specifications

### CLAMP

MATERIAL: STAMPED SHST  
COLOR: AS SELECTED FROM STD. COLOR RANGE.  
FINISH: ELECTROSTATICALLY APPLIED POLYESTER DRY POWDER COAT

### FASTENERS

FINISH: STAINLESS STEEL.

## Application

- FOR USE WHEN HIGH-LOW CLAMP CONFIGURATION IS NEEDED TO ATTACH PANELS.

## Maintenance

- CHECK ALL HARDWARE
- TOUCH UP ANY MARRED PAINT SURFACE

## Installation Instructions

1. POSITION THE CLAMP HALVES AROUND THE POST AND LOOSELY CONNECT HALVES TOGETHER WITH THE HARDWARE SHOWN. CLAMPS SHOULD BE ORIENTED SO THAT PANELS WILL ATTACH TO THE TAB FACE SHOWN IN THE DETAIL.
2. MOVE THE CLAMP ASSEMBLY ALONG THE POST UNTIL IT LINES UP WITH THE LOCATION THAT IT WILL BE CONNECTED TO THE PANEL. COMPLETE THE PANEL CONNECTION AS SPECIFIED IN THE INDIVIDUAL PANEL INSTRUCTION.
3. LEVEL THE CLAMP ASSEMBLY AROUND THE POST AND TIGHTEN CLAMP HARDWARE.
4. AS A LAST STEP IN THE PLAYGROUND INSTALLATION, INSTALL HAMMER DRIVE PINS. LOCATE ONE OF THE EXISTING SMALL HOLES IN A CLAMP HALF. (EITHER HOLE CAN BE USED, USE THE MOST ACCESSIBLE.) THIS WILL BE THE DRILLING SITE FOR THE HAMMER DRIVE PIN. DRILL A 5mm (3/16") DIA. HOLE INTO THE POST. INSERT THE HAMMER DRIVE PIN INTO THE HOLE. TAP THE CENTER CORE PIN INWARD UNTIL IT IS FLUSH WITH THE OUTER PIN SURFACE. BE CAREFUL NOT TO MAR THE PAINTED SURFACES. REPEAT ON THE OTHER CLAMP HALF. HAMMER DRIVE PINS ARE SHIPPED SEPERATELY FROM CLAMP HARDWARE.

KB000009A

AUTHORIZED BY:

*Raymond* 03AUG99

PANEL OR WING CLAMP

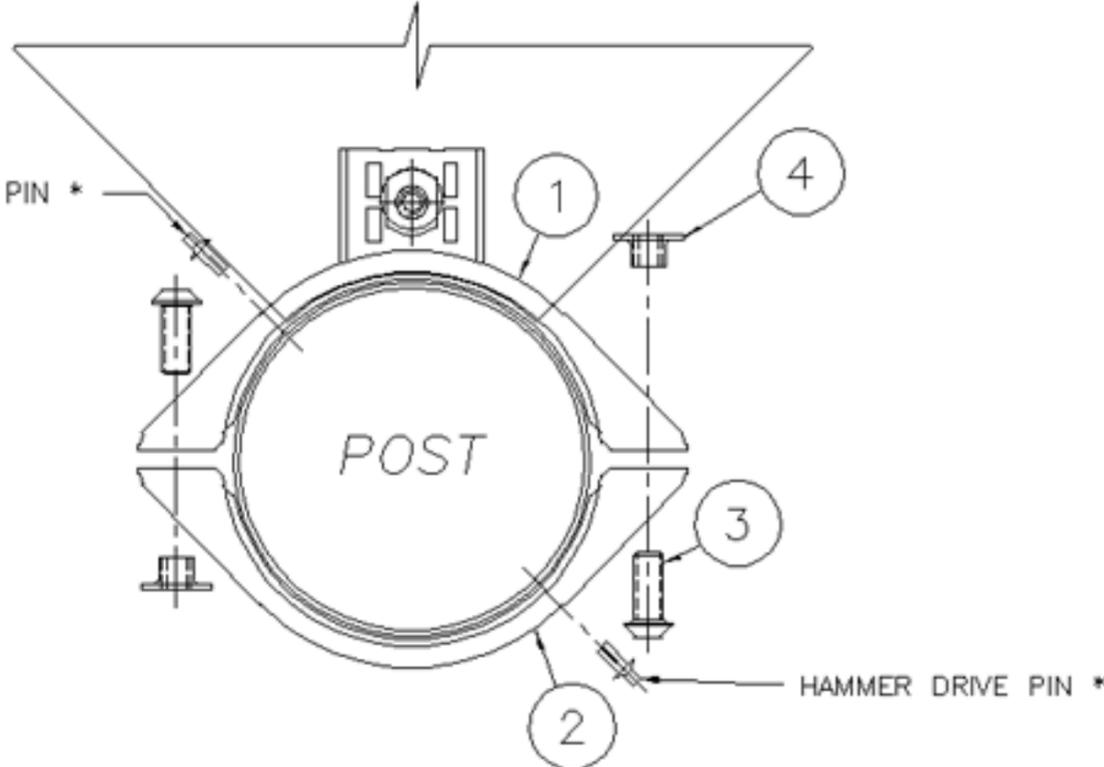
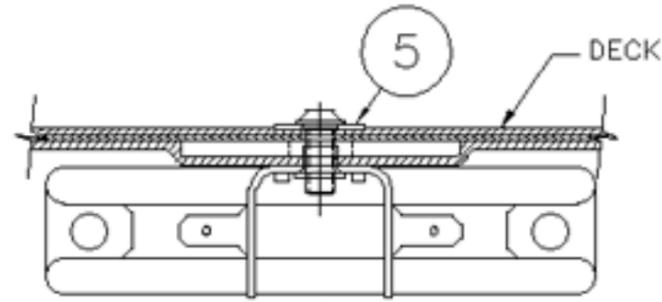
ITEM	CODE	DESCRIPTION	QTY
1	-	CLAMP HALF W/TAB F/PANEL MT. ZN	1
-OR-	-	CLAMP HALF W/TAB F/KB WING CLAMP	1
2	-	CLAMP HALF W/O WELDED ATTACHMENT ZN	1
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	2
4	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	2



REF: PANEL CLAMP

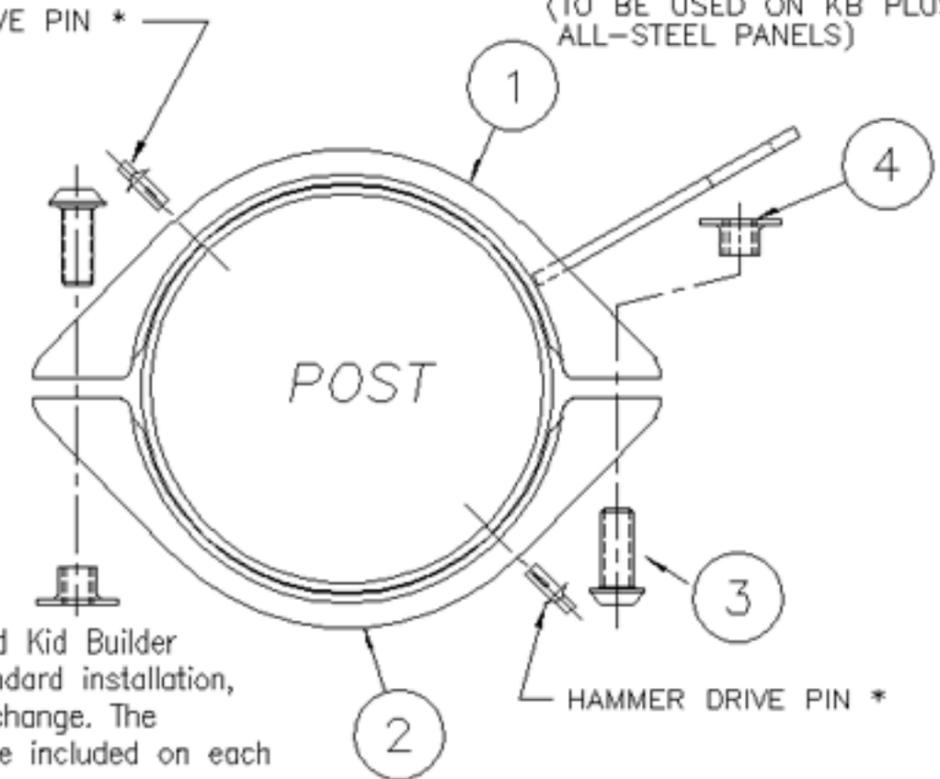


REF: WING CLAMP  
(TO BE USED ON KB PLUS ALL-STEEL PANELS)



DECK CLAMP

ITEM	CODE	DESCRIPTION	QTY
1	-	CLAMP HALF W/NEW DECK ATTACHMENT ZN	1
2	-	CLAMP HALF W/O WELDED ATTACHMENT ZN	1
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	3
4	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	3
5	200002100	WASHER FLAT M11 320D X 13ID X 2 MM THK	1



The following details illustrate the assembly of all standard Kid Builder Clamps. If a component requires an exception to the standard installation, the instruction page for that component will reflect that change. The hardware used to attach a Panel Clamp to a panel will be included on each component page.

1. Each Clamp half will have a small hole and a large hole on opposite sides. The Larger hole accommodates the Tee Nuts.
2. Always make sure the event is at the proper height and the clamps are level before Hammer Drive Pins are installed.
3. There will also be two smaller pilot holes on each clamp half. Pick the most accessible hole and drill a 5mm dia. hole through the clamp half and the post. Tap the pins in with a rubber mallet or hammer. Be careful not to mar paint surfaces. Also, all Rail Clamp attachments will have pilot holes for hammer drive pin installation.

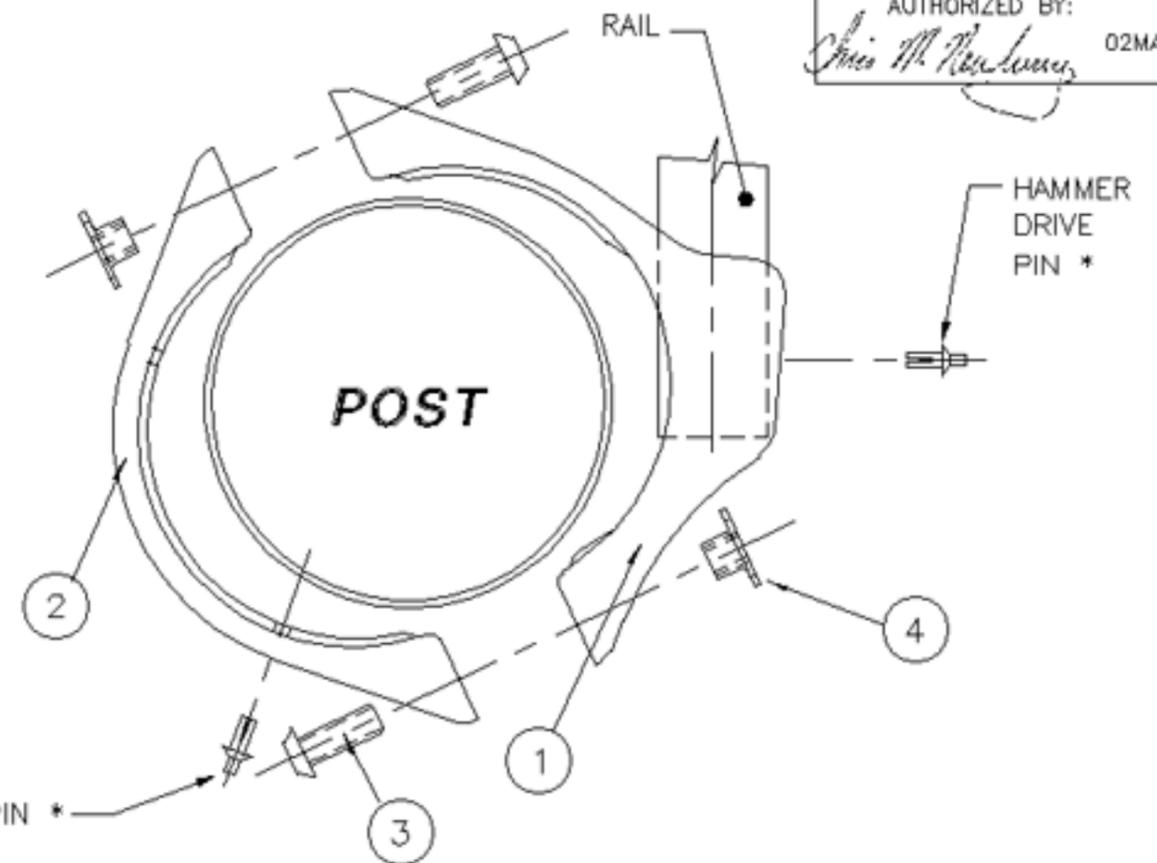
\* Hammer drive pins are not included in the clamp hardware bag. They are located in a separate bag in the hardware kit.

AUTHORIZED BY:  
*Chris M. Newberry* 02MAR01

The following details illustrate the assembly of all standard Kid Builder Clamps. If a component requires an exception to the standard installation, the instruction page for that component will reflect that change.

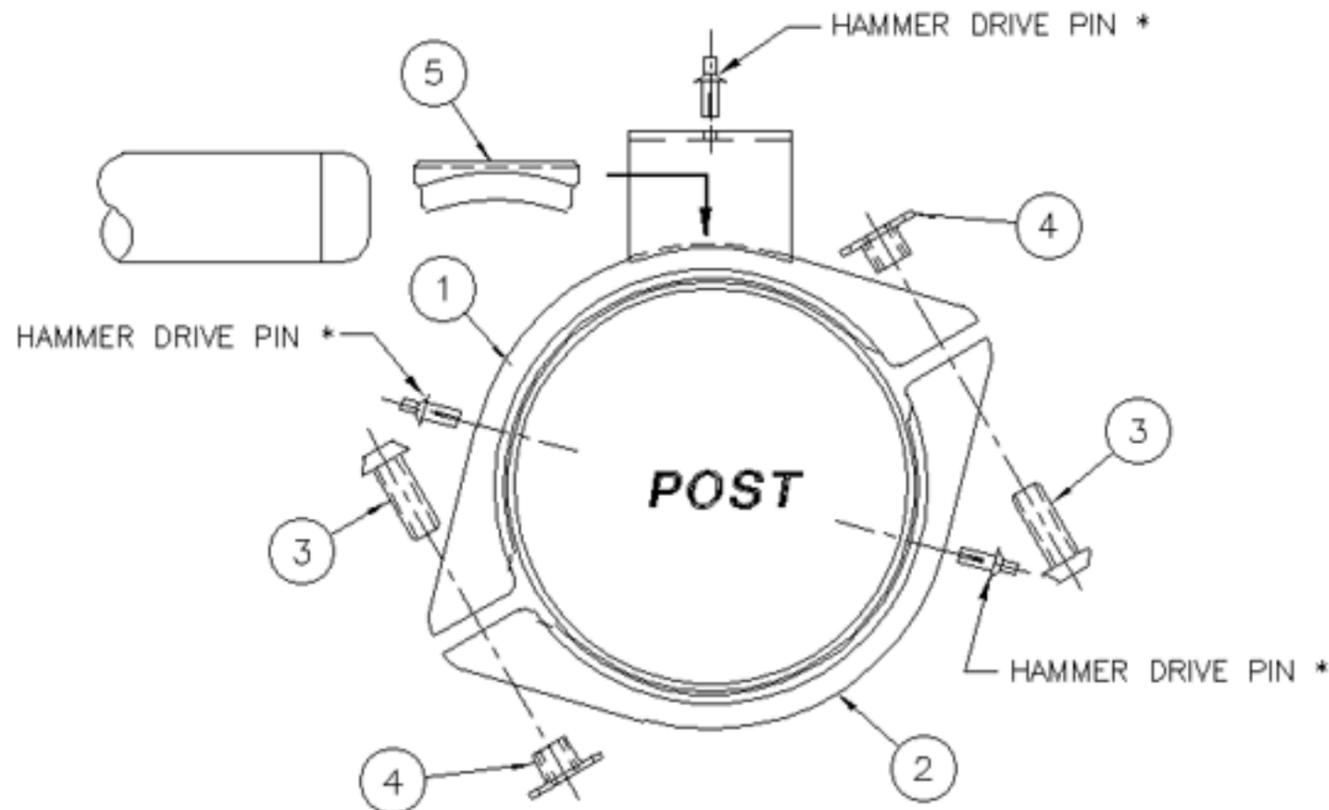
1. Each Clamp half will have a small hole and a large hole on opposite sides. The Larger hole accommodates the Tee Nuts.
2. Always make sure the event is at the proper height and the clamps are level before Hammer Drive Pins are installed.
3. There will also be two smaller pilot holes on each clamp half. Pick the most accessible hole and drill a 5mm dia. hole through the clamp half and the post. Tap the pins in with a rubber mallet or hammer. Be careful not to mar paint surfaces. Also, all Rail Clamp attachments will have pilot holes for hammer drive pin installation.

\* Hammer drive pins are not included in the clamp hardware bag. They are located in a separate bag in the hardware kit.



## 30 DEG. RAIL CLAMP W/ WEDGE

ITEM	DRG REF	DESCRIPTION	QTY
1	-	CLAMP HALF W/ATT. F/RAILS ZN 30 DEG.	1
2	-	CLAMP HALF W/O WELDED ATTACHMENT ZN	1
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25 MM	2
4	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5 MM	2
5	200000733	SPACER WEDGE ALUM. F/KB CLAMP F/SLOT	1

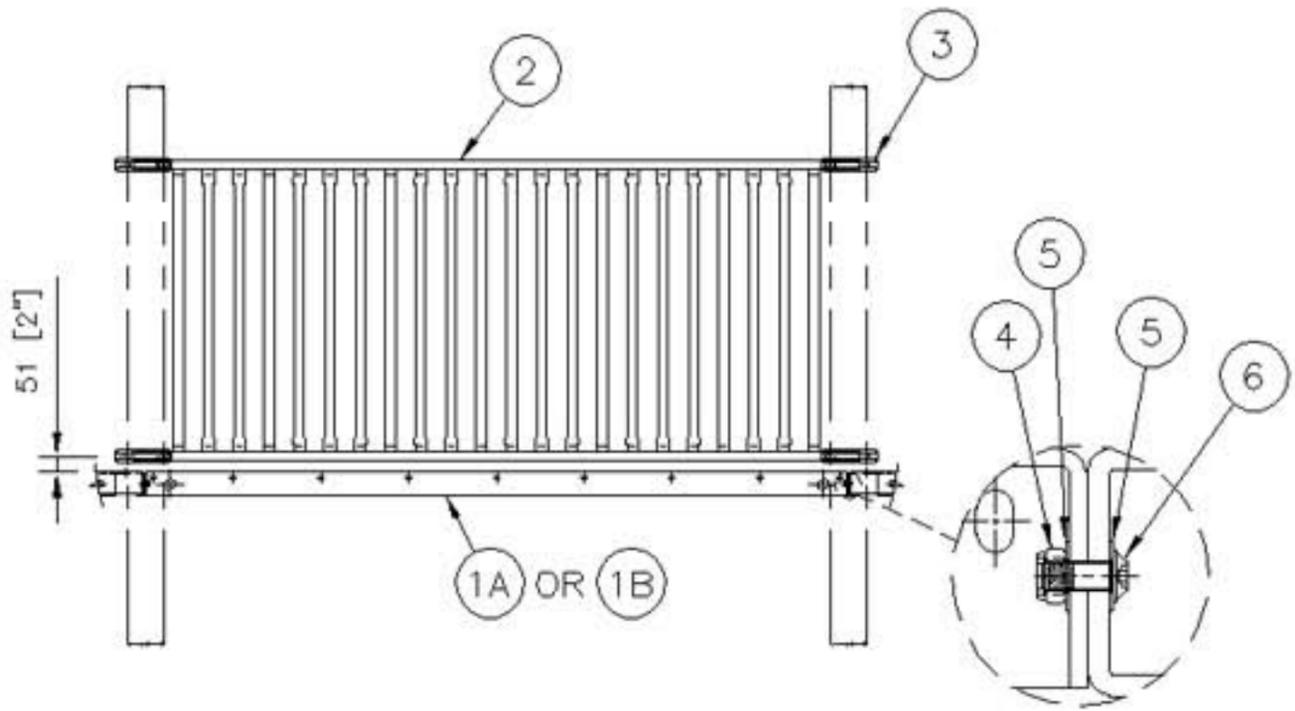
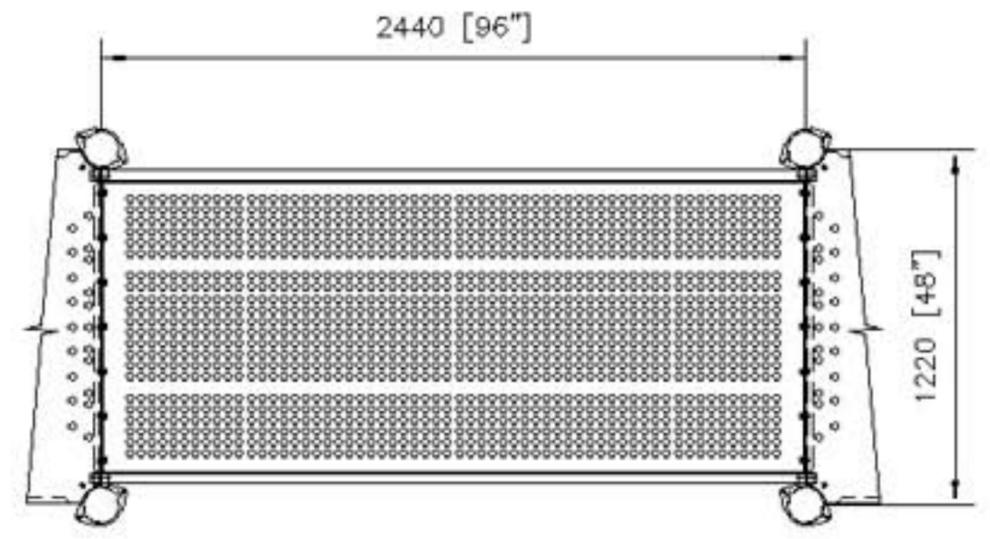


## HOODED RAIL CLAMP

ITEM	DRG. REF	DESCRIPTION	QTY
1	-	CLAMP HALF W/HOODED RAIL ATTACHMENT ZN	1
2	-	CLAMP HALF W/O WELDED ATTACHMENT ZN	1
3	200002018	SCREW MACH. BUTTONHEAD M10 X 1.5 X 25mm	2
4	200001966	T-NUT SLAB BASE M10 X 1.5 X 9.5mm	2



AUTHORIZED BY:  
*Joe Fritchett* 04JUN08



BRIDGE 2440 MM[8'] KB  
200006946  
BRIDGE 2440 MM/8' KB (SMALL HOLE)  
200200278

Item	Code	Description	Qty.
1A	200004096	BRIDGE 8' F/KB (TDV)	1
1B	200146669	BRIDGE 8' F/KB (TDV) SMALL HOLE	
2	-	SAFETY RAIL LONG 38" F/KB BRIDGE	2
3	-	KB WEDGE CLAMP ASSEMBLY	8

2 X HDWR BAG F/LEVEL DECK INSTALLATION  
200007690

Item	Code	Description	Qty.
4	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	14
5	200002079	WASHER FLAT M11 23 X 12 X 1.6	28
6	200002018	SCREW MACH BUTTONHEAD M10 X 1.5 X 25 MM	14

**Application**

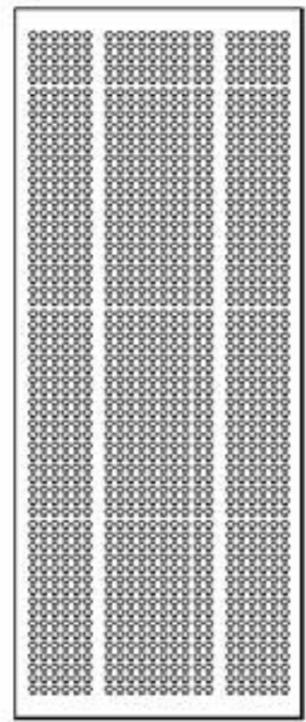
- For use with all age groups.
- If safety rails are installed at the recommended height shown, side curbs or other wheel chair guide features are not necessary.
- Handicapped accessible component.

**Installation Instructions**

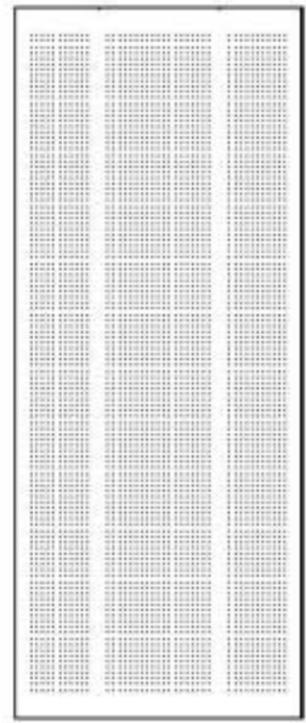
1. Loosely assemble at least 2 sets of hardware on each side of bridge as shown, for stability.
2. Assemble remaining bridge hardware.
3. Assemble wedge clamps to posts.\*
4. Assemble safety rails (barriers) to clamps.
5. Make sure rails are plumb and bridge is level and tighten all hardware.

\*Refer to the front of the KB manual for KB wedge clamp assembly.

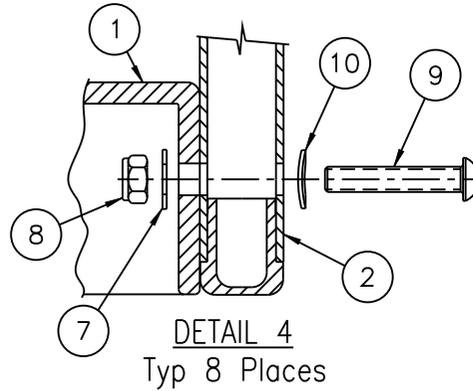
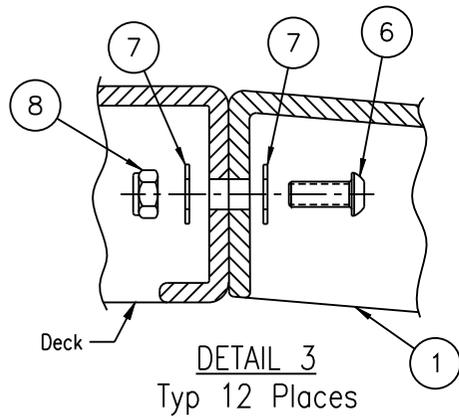
1A



1B

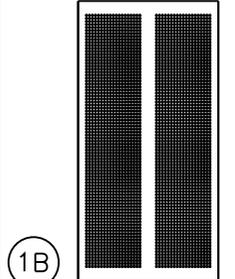
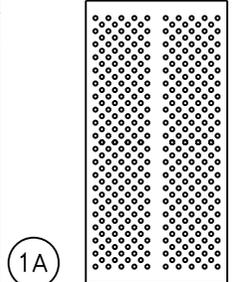


*Handwritten signature*



RAMP 3660 MM/12' W/GUARD RAILS KB	200006964
RAMP 3660/12' GRD RL KB(SMALL HOLES)	200200384
RAMP W/TRKS 3660MM/12'W/GRD RL KB	200201017
RAMP 3660 MM/12' W/SAFETY RAILS KB	200006963
RAMP 3660/SMALL HOLES W/SAFE RL KB	200200047
RAMP W/TRKS 3660MM/12'W/SAFE RL KB	200201018

Item	Code	Description	Qty.
1A	200004093	RAMP 1830 MM FOLD DOWN (TDV) F/KB	2
1B	200140758	RAMP 1830MM SMALL HOLE (TDV)	
1C	200161792	RAMP W/TRACKS 1830 MM (TDV) F/KB	
2A	-	GUARD RAIL F/KB 1830 MM RAMP ASSEMBLY	2
2B	-	SAFETY RAIL F/KB 1830 MM RAMP ASSEMBLY	2
3	200002884	BRACKET MOUNT BRN F/KB DECK-TO-POST	1
4	-	HOODED RAIL CLAMP	8
5	-	DECK CLAMP	2
6	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	2
12	200002100	WASHER FLAT M11 320D X 13ID X 2 MM THK	2
13	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	2

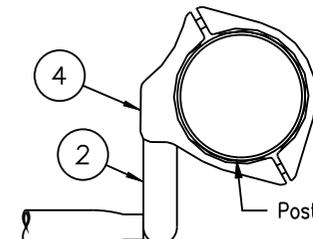
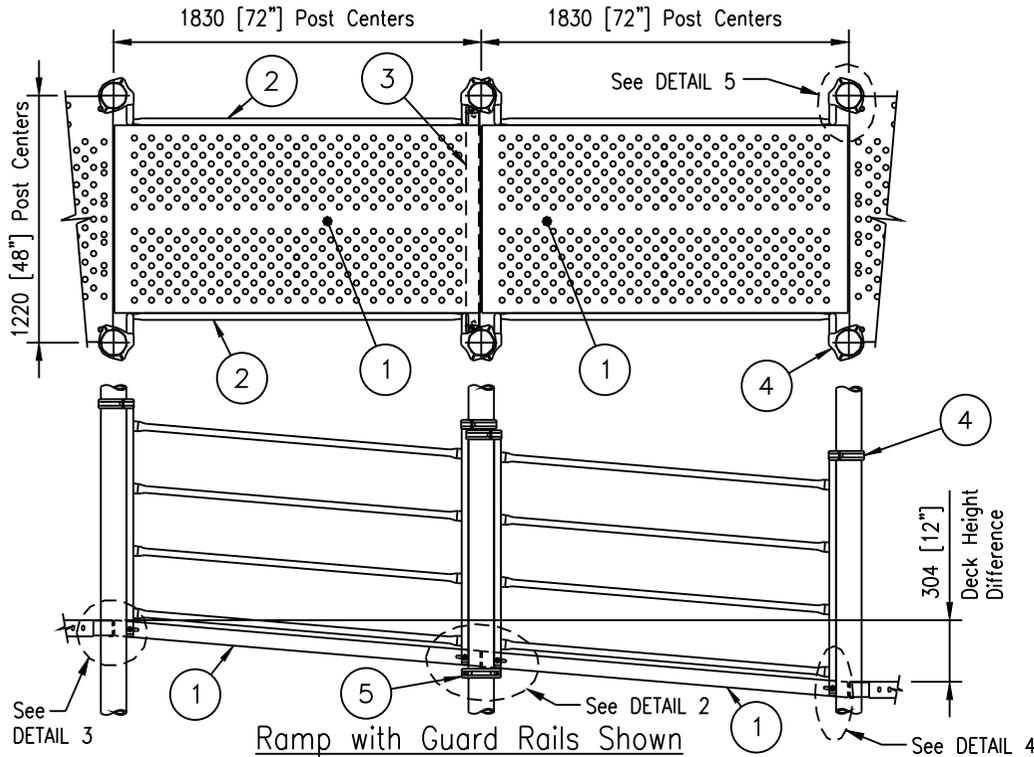
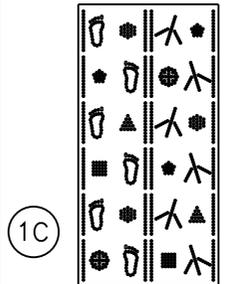


HDWR BAG KB DECK-TO-POST MT BRKT	200007697
----------------------------------	-----------

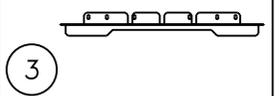
Item	Code	Description	Qty.
6	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	6
7	200002079	WASHER FLAT M11 23 X 12 X 1.6	12
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	6

HDWR BAG F/KB 12' RAMP	200007698
------------------------	-----------

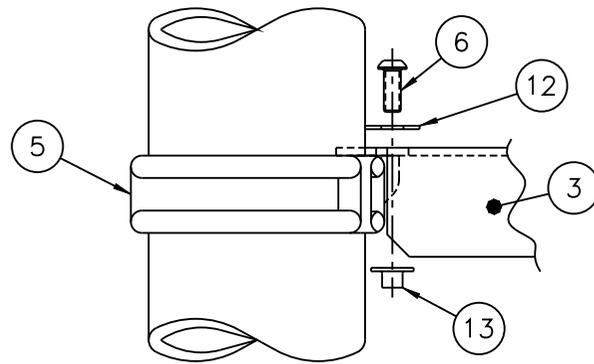
Item	Code	Description	Qty.
6	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	12
7	200002079	WASHER FLAT M11 23 X 12 X 1.6	44
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	26
9	200002150	SCREW MACH BUTTONHEAD M10 X 1.5 X 55 MM	8
10	200008483	WASHER BOWED M11 23.5 X 11.7 X 1.57 MM	8
11	200002030	SCREW MACH BUTTONHEAD M10 X 1.50 X 30MM	6



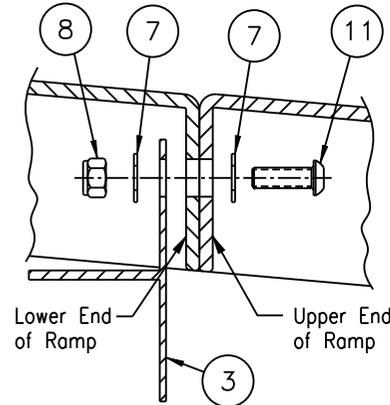
**DETAIL 5**  
Typ 8 Places



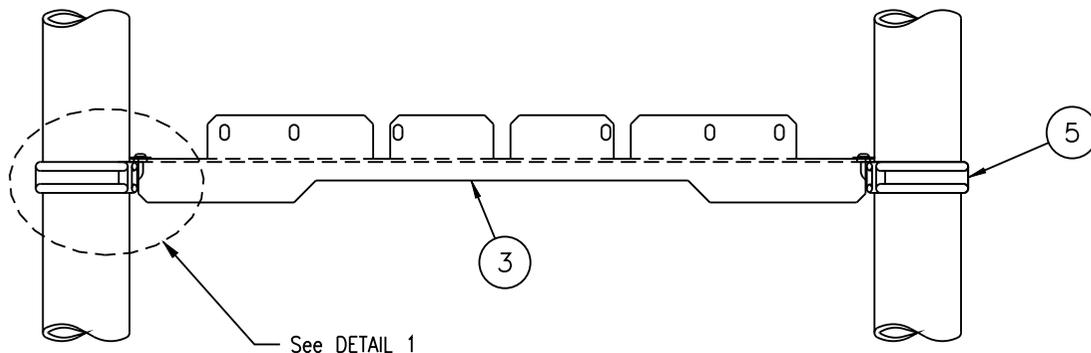
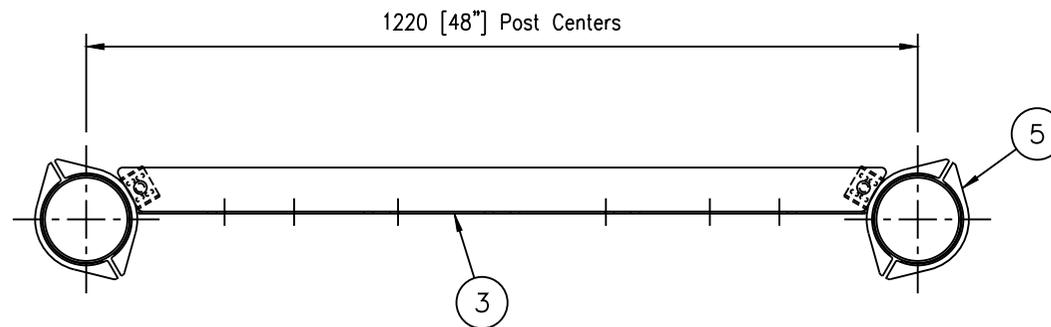
*Alpha House*



DETAIL 1  
Typ 2 Places



DETAIL 2  
Typ 6 Places



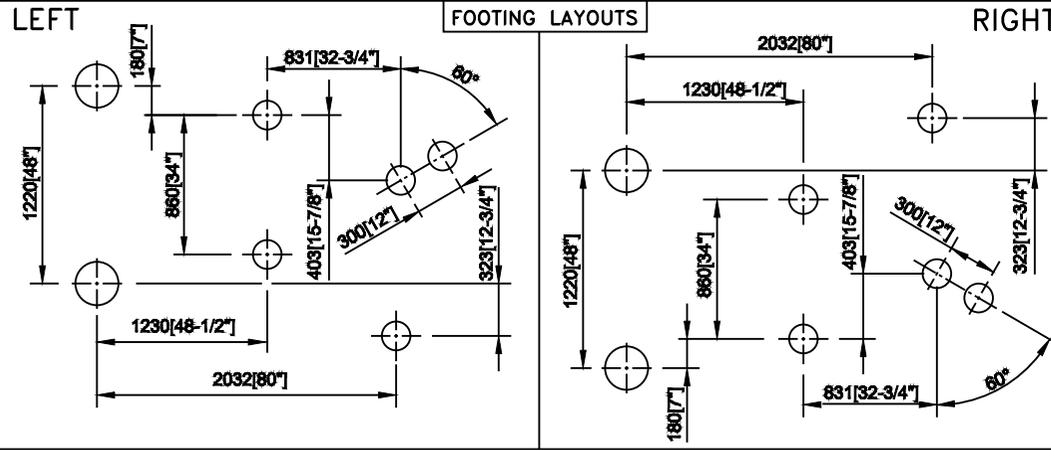
Deck to Post Mounting Bracket

### Application

- This is a platform event and can be installed at various heights. Refer to your layout drawing.
- Ramp is designed for a 304mm [12"] rise only.

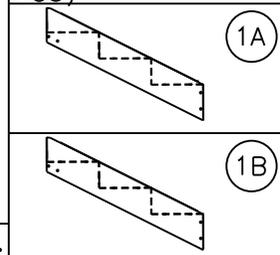
### Installation Instructions

1. Prepare footings.
2. Install posts and loosely attach any adjoining structures.
3. Loosely attach deck clamps to posts (refer to front of manual for clamp installation detail).
4. Attach mounting bracket to deck clamps (refer to Detail 1). The hardware used in this view will be supplied with the deck clamp.
5. Position at the proper height, tighten all hardware and install clamp drive pins.
6. Lower the deck or ramp end(s) onto the mounting bracket and install hardware (refer to Detail 2).
7. Assemble ramp to existing decks as shown in DETAIL 3.
8. Loosely assemble guard or safety rails to the ramp (refer to DETAIL 4).
9. Slide hooded rail clamps onto rail stubs and assemble to posts (refer to DETAIL 5 and front of manual for clamp installation details).
10. Make sure rails are plumb.
11. Tighten all hardware and install clamp drive pins.
12. Complete footings and install resilient surfacing.

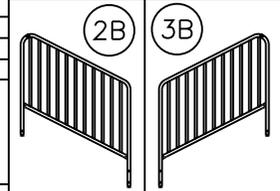
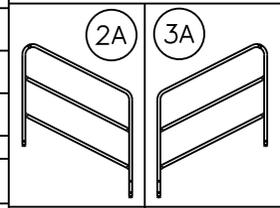


KB TRANS STAT 1220 GRD RL 11GA  
200202564  
KB TRANS STAT 1220 SFTY RL 11GA  
200202562  
KB TRANS STAT 1220 GRD RL (SM HL)11GA  
200202565  
KB TRANS STAT 1220 SFTY RL (SM HL)11GA  
200202563

AUTHORIZED BY: *Joe Mitchell* 04JUN08

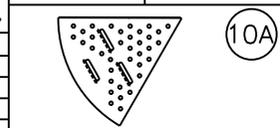


Item	Code	Description	Qty.
1A	-	STEPS DECK TO DECK 815 KB	1
1B	-	STEPS DK-TO-DK 815 SMALL HOLE	1
2A	-	GUARD RAIL LEFT F/ KB 1220 TRANSFER STATION	1
2B	-	SAFETY RAIL LEFT F/ KB 1220 TRANSFER STATION	1
3A	-	GUARD RAIL RIGHT F/ KB 1220 TRANSFER STATION	1
3B	-	SAFETY RAIL RIGHT F/ KB 1220 TRANSFER STATION	1
7	-	HOODED RAIL CLAMP ASSEMBLY	2
10A	-	DECK SNO CONE F/TRANSFER STATION	2
10B	-	DECK SNO CONE TRNSFR STAT SMALL HOLE	2
11	200016226	PLATE KICK F/TRANSFER STATION BRN	1
12	-	LOOP F/915 TRANSFER STATION	1
13	-	SUPPORT FOOT TRANSFER STATION DECK	1
14	-	SUPPORT STEP F/ TRANSFER STATION	1

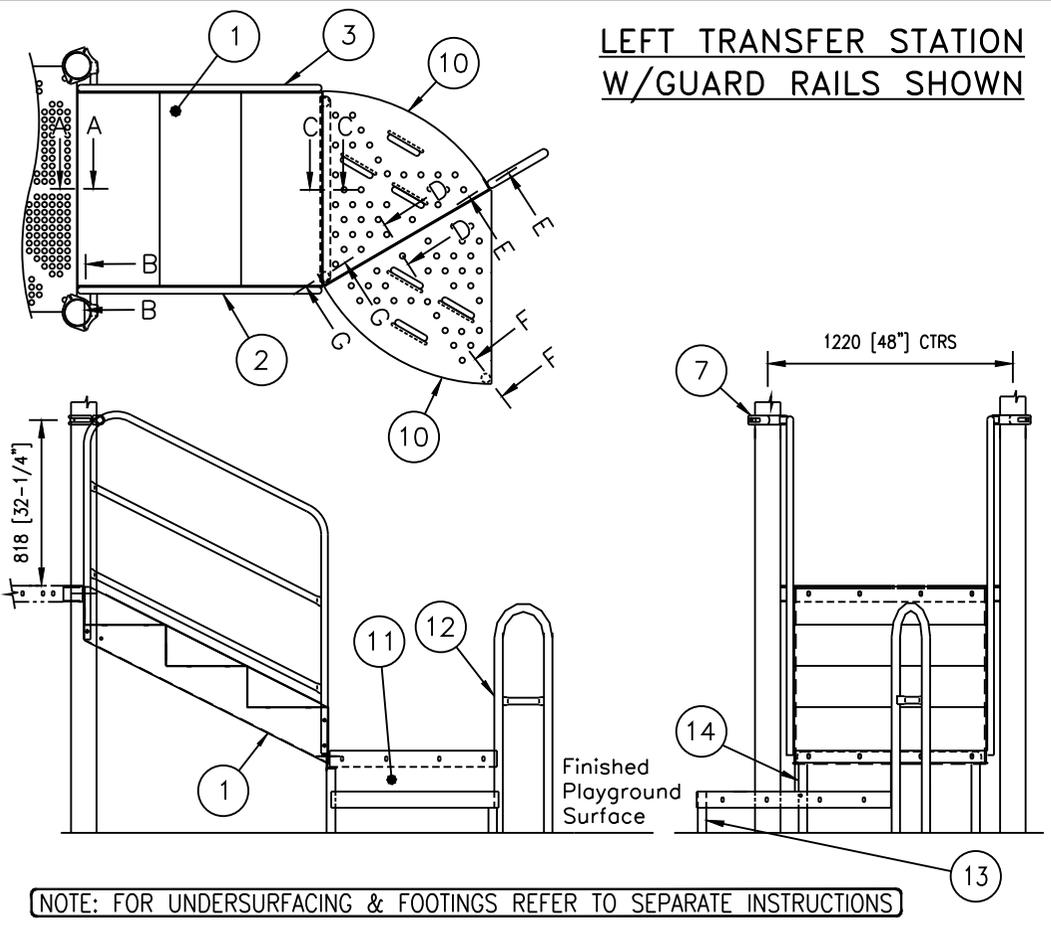


HDWR BAG F/KB TRSFR STATION  
200016252

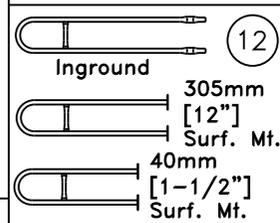
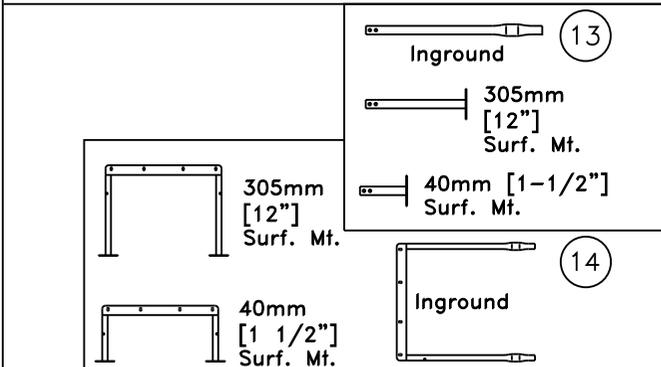
Item	Code	Description	Qty.
4	200002150	SCREW MACH. BUTTONHEAD M10 X 1.5 X 55mm	6
5	200002018	SCREW MACH. BUTTONHEAD M10 X 1.5 X 25mm	12
6	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	22
8	200002079	WASHER FLAT M11 23 X 12 X 1.6mm	43
9	200008483	WASHER BOWED M11 23.5 X 11.7 X 1.57mm	11
15	200002133	BOLT M8 X 1.25 MALE 27.5mm	5
16	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30mm	5
17	200002030	SCREW MACH. BUTTONHEAD M10 X 1.5 X 30mm	4

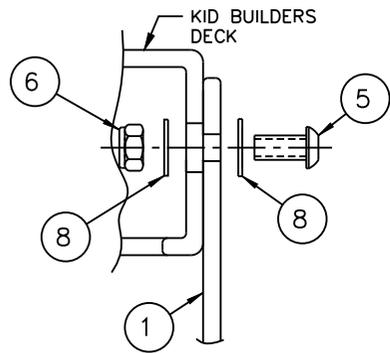


**Application**  
- Provides accessibility to structure.

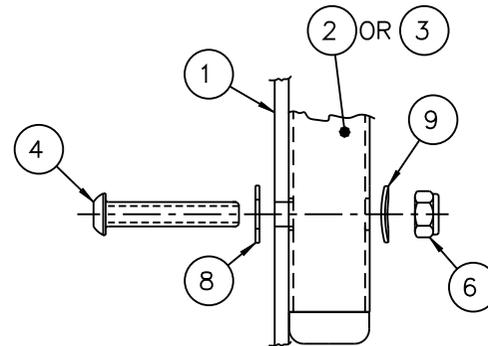


NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

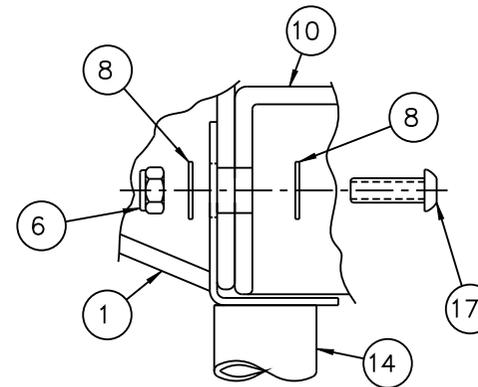




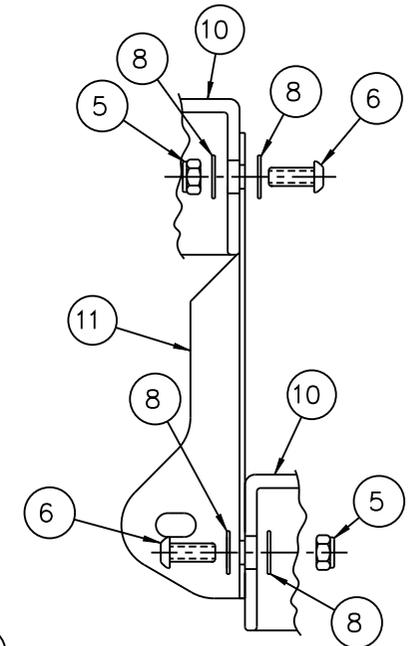
**SECTION A-A**  
TYP 4 PL  
(TOP OF STEPS TO  
KB DECK ATTACHMENT)



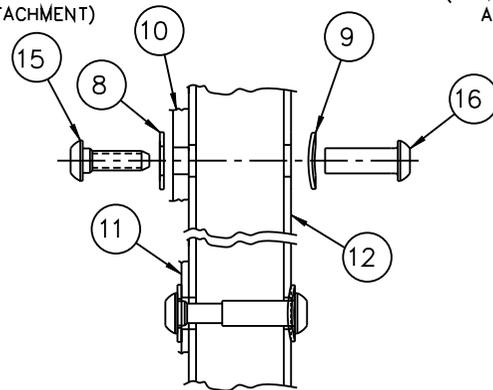
**SECTION B-B**  
TYP 3 PL PER HANDRAIL  
(HANDRAIL TO STEP  
ATTACHMENT)



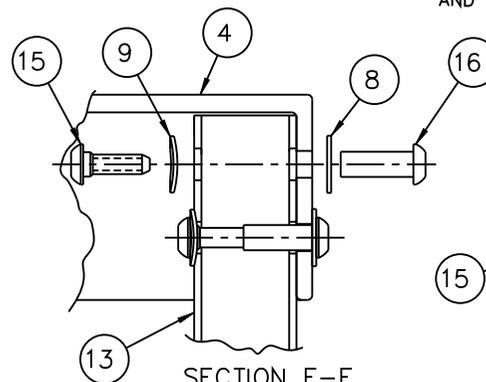
**SECTION C-C**  
TYP 4 PL  
(BOTTOM OF STEPS TO  
UPPER SNO CONE DECK  
AND SUPPORT STEP)



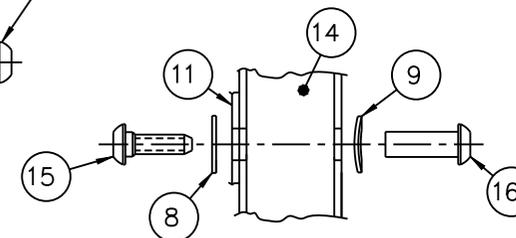
**SECTION D-D**  
TYP 4 PL



**SECTION E-E**  
TYP 1 PL  
(LOOP ATTACHMENT  
TO SNO CONE DECK  
& KICK PLATE)



**SECTION F-F**  
TYP 1 PL  
(SUPPORT FOOT TO LOWER  
SNO CONE DECK ATTACHMENT)



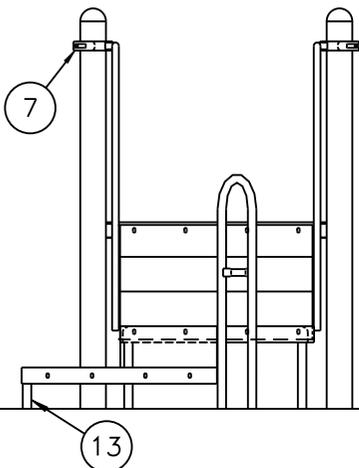
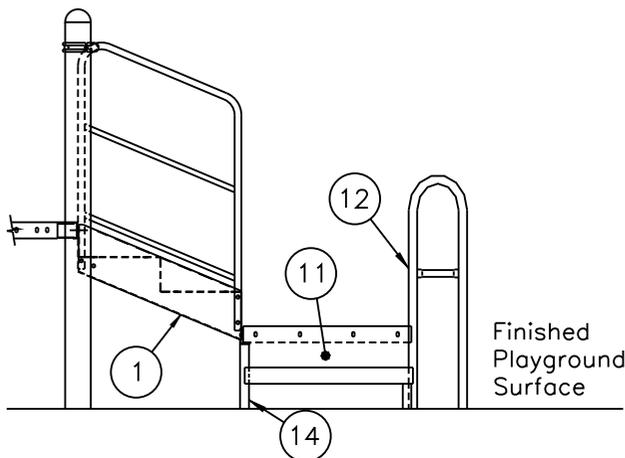
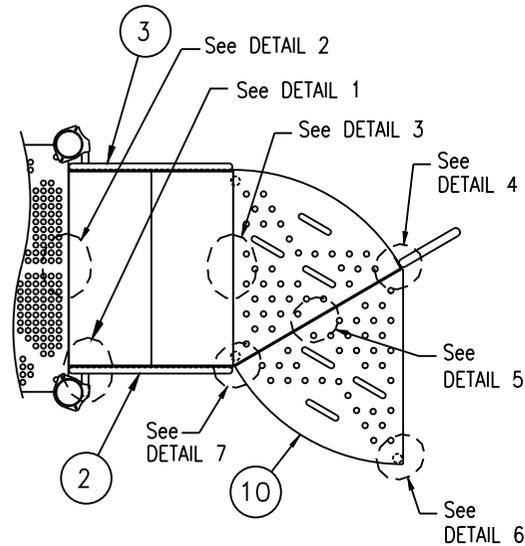
**SECTION G-G**  
TYP 1 PL  
(KICK PLATE TO STEP  
SUPPORT ATTACHMENT)

**Installation Instructions**

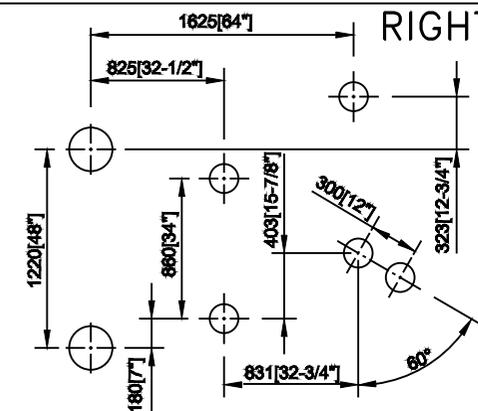
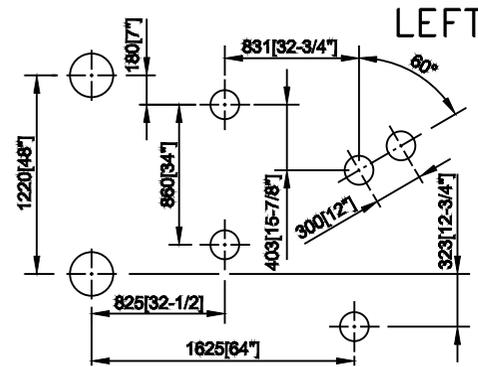
1. Prepare Footings.
2. Place the Step Support under the lower end of the Steps. Attach the upper end of the steps to the deck edge SEE SECTION A-A. Attach the Handrails to the sides of the Steps SEE SECTION B-B and then to the posts using Hooded Rail Clamps (refer to front of manual for clamp installation detail).
3. Attach the first Sno Cone Deck to the lower end of the Steps and Step Support as shown in SECTION C-C. Assemble the Kick Plate to the Sno Cone Deck as shown in SECTION D-D.
4. Attach the Loop to the corner of the first Sno Cone Deck SEE SECTION E-E.
5. Attach the Support Foot to the second Sno Cone Deck (SECTION F-F), then fasten the deck to the lower end of the Kick Plate (SECTION D-D).
6. Attach the Kick Plate to the Loop on one side and the Step Support on the other (SECTION G-G).
7. Tighten all hardware.
8. Complete footings and install resilient surfacing.

AUTHORIZED BY: 04JUN08  
*Joe Mitchell*

## LEFT TRANSFER STATION W/GUARD RAILS SHOWN



## FOOTING LAYOUTS



KB TRANS STAT 915 GRD RL 11GA  
200202556

KB TRANS STAT 915 SFTY RL 11GA  
200202554

KB TRANS STAT 915 GRD RL (SM HL)11GA  
200202557

KB TRANS STAT 915 SFTY RL (SM HL)11GA  
200202555

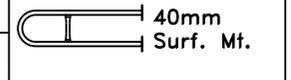
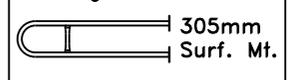
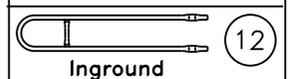
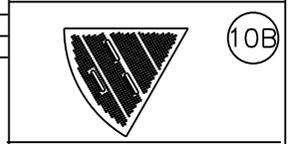
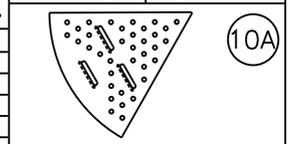
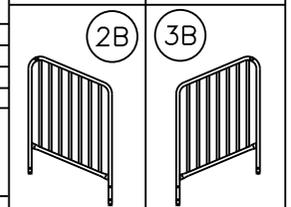
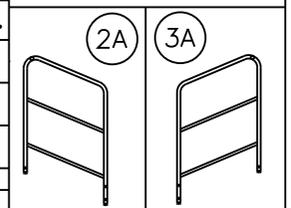
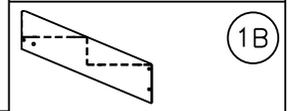
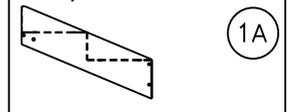
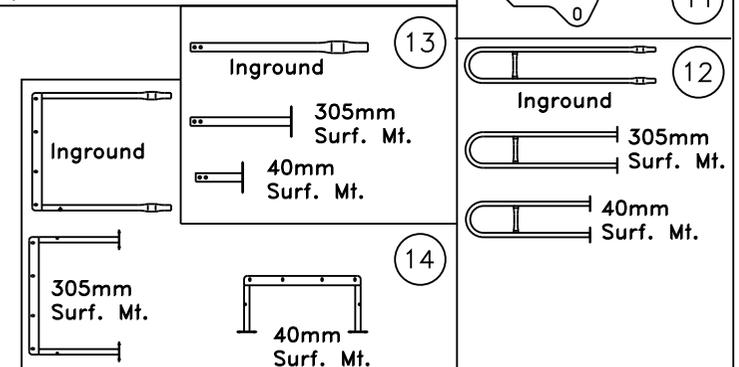
Item	Code	Description	Qty.
1A	-	STEPS DECK TO DECK 508 KB	1
1B	-	STEPS DECK-TO-DECK 508MM(SMALL HOLE)	1
2A	-	GUARD RAIL LEFT F/KB 915 TRANSFER STATION	1
2B	-	SAFETY RAIL LEFT F/KB 915 TRANSFER STATION	1
3A	-	GUARD RAIL RIGHT F/KB 915 TRANSFER STATION	1
3B	-	SAFETY RAIL RIGHT F/KB 915 TRANSFER STATION	1
7	-	HOODED RAIL CLAMP ASSEMBLY	2
10A	-	DECK SNO CONE F/915 TRANSFER STATION	2
10B	-	DECK SNO CONE TRNSFR STAT SMALL HOLE	2
11	200016226	PLATE KICK F/ 915 TRANSFER STATION	1
12	-	LOOP F/915 TRANSFER STATION	1
13	-	SUPPORT FOOT TRANSFER STATION DECK	1
14	-	SUPPORT STEP F/ TRANSFER STATION	1

HDWR BAG F/KB TRSFR STATION  
200016252

Item	Code	Description	Qty.
4	200002150	SCREW MACH. BUTTONHEAD M10 X 1.5 X 55mm	6
5	200002018	SCREW MACH. BUTTONHEAD M10 X 1.5 X 25mm	12
6	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	22
8	200002079	WASHER FLAT M11 23 X 12 X 1.6mm	43
9	200008483	WASHER BOWED M11 23.5 X 11.7 X 1.57mm	11
15	200002133	BOLT M8 X 1.25 MALE 27.5mm	5
16	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30mm	5
17	200002030	SCREW MACH. BUTTONHEAD M10 X 1.5 X 30mm	4

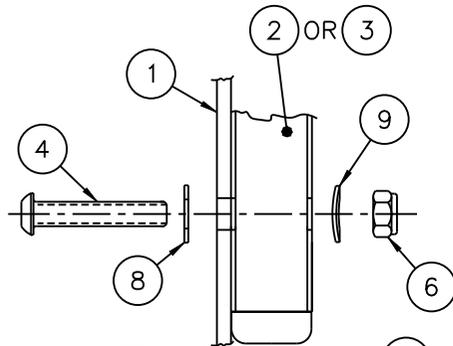
### Application

- Provides accessibility to structure

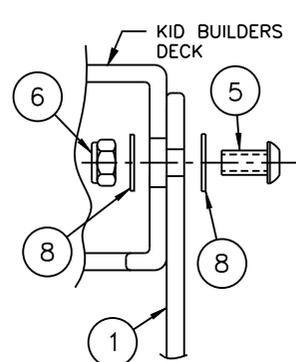


NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

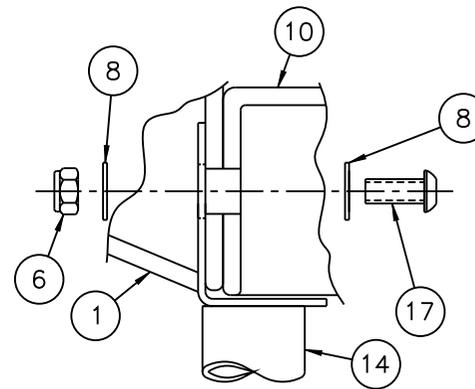
*Joe Mitchell*



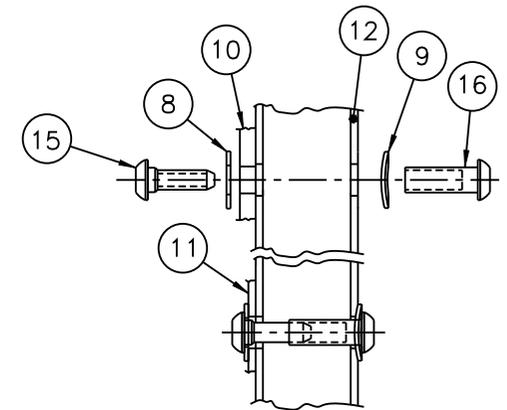
**DETAIL 1**  
TYP 3 PL PER HANDRAIL  
(HANDRAIL TO STEP  
ATTACHMENT)



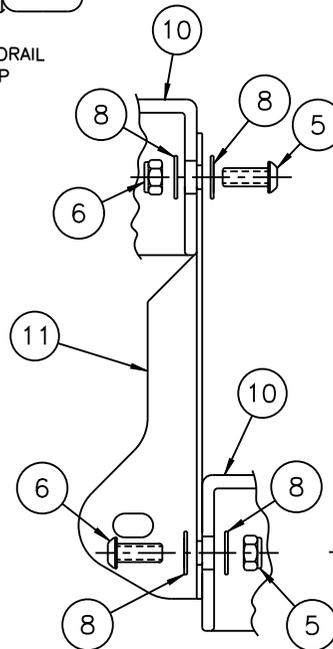
**DETAIL 2**  
TYP 4 PL  
(TOP OF STEPS TO  
KB DECK ATTACHMENT)



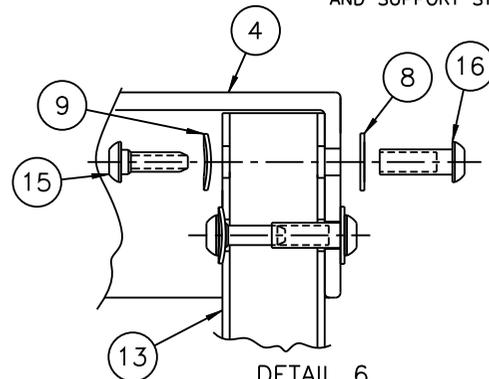
**DETAIL 3**  
TYP 4 PL  
(BOTTOM OF STEPS TO  
UPPER SNO CONE DECK  
AND SUPPORT STEP)



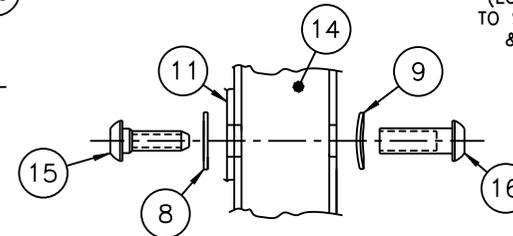
**DETAIL 4**  
TYP 1 PL  
(LOOP ATTACHMENT  
TO SNO CONE DECK  
& KICK PLATE)



**DETAIL 5**  
TYP 4 PL



**DETAIL 6**  
TYP 1 PL  
(SUPPORT FOOT TO LOWER  
SNO CONE DECK ATTACHMENT)

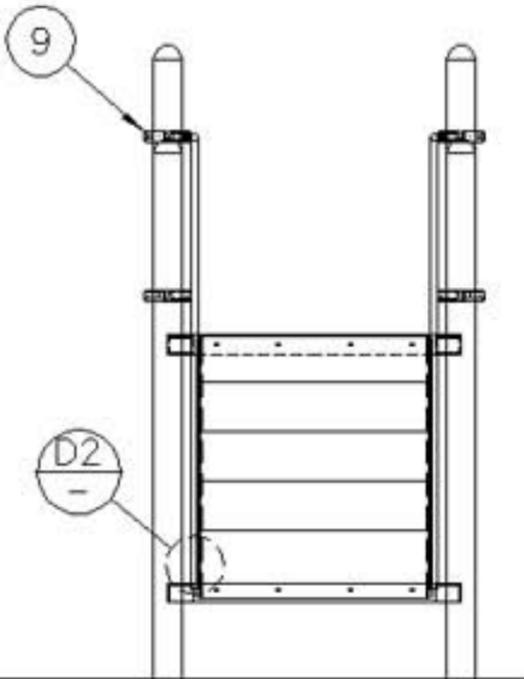
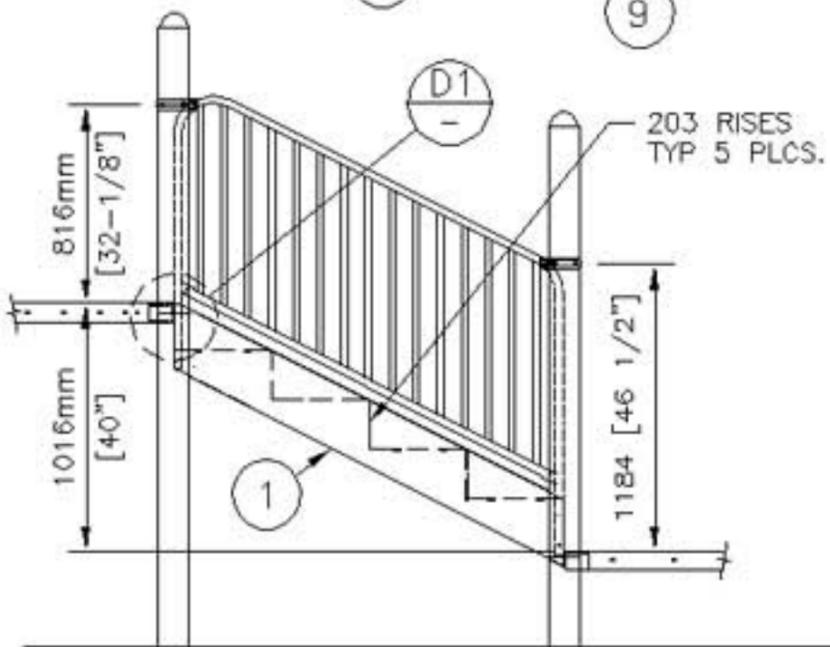
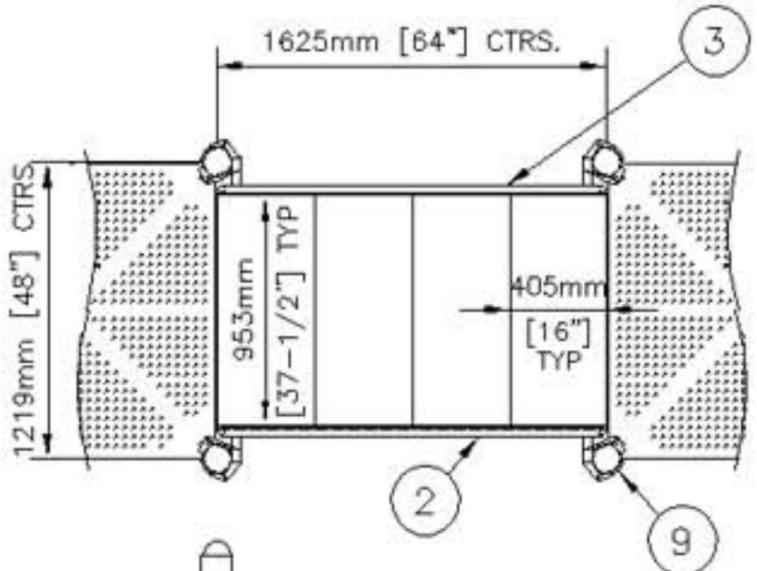
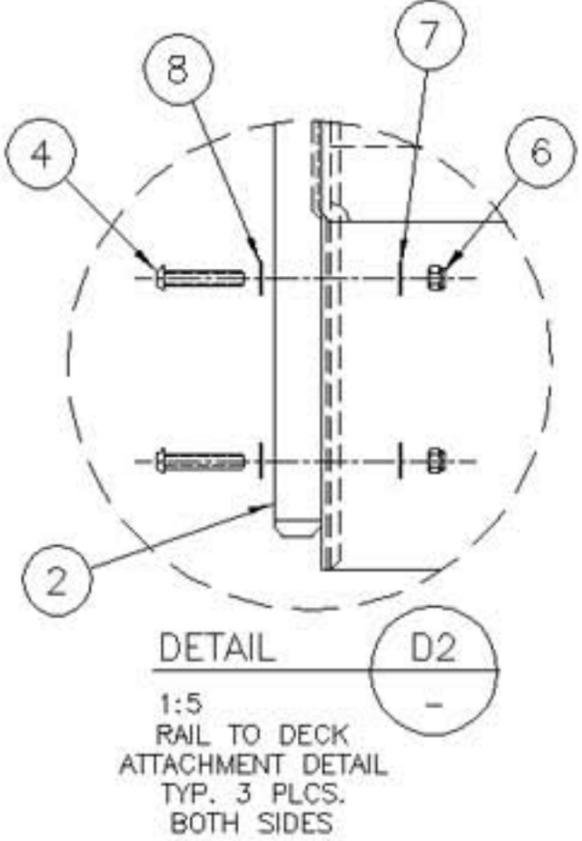
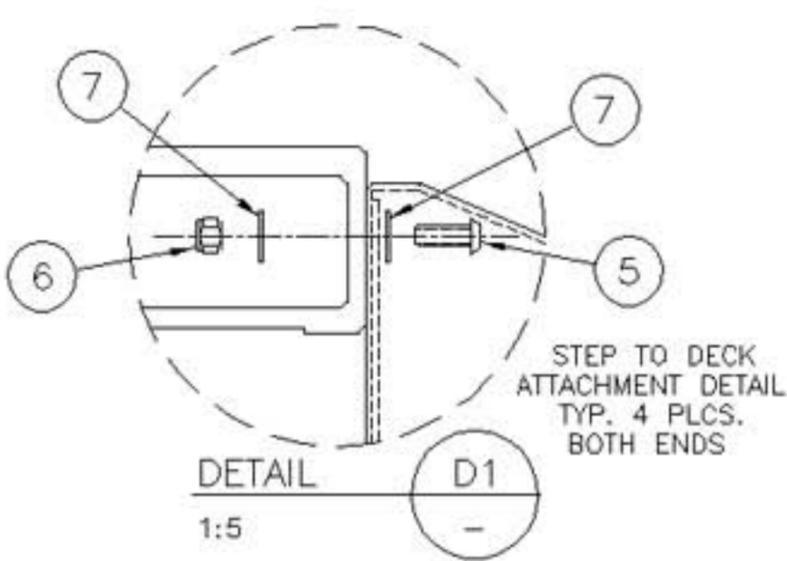


**DETAIL 7**  
TYP 1 PL  
(KICK PLATE TO STEP  
SUPPORT ATTACHMENT)

**Installation Instructions**

1. Prepare footings.
2. Place the Step Support under the lower end of the Steps. Attach the upper end of the steps to the existing deck edge (refer to DETAIL 2). Attach the Handrails to the sides of the Steps (refer to DETAIL 1), then attach the Handrails to the posts with Hooded Rail Clamps. (Refer to the front of the manual for clamp installation detail).
3. Attach the first Sno Cone Deck to the lower end of the Steps and Step Support as shown in DETAIL 3. Assemble the Kick Plate to the Sno Cone Decks (refer to DETAIL 5). Attach the Loop to the corner of the first deck (refer to DETAIL 4).
4. Attach the Support Foot to the second Sno Cone Deck (refer to DETAIL 6), then fasten the deck to the lower end of the Kick Plate (refer to DETAIL 5).
5. Attach the Kick Plate to the Loop on one side and the Step Support on the other (refer to DETAIL 7).
6. Tighten hardware and drive pin clamps to posts.
7. Complete footings and install resilient surfacing.

AUTHORIZED BY:  
*Joe Pritchett* 02JUN06



STEPS DECK/DECK 1016 MM W/SFTY RAILS KB  
200125581  
STEPS DK/DK 1016 SFTY.RL.KB(SMALL HOLES)  
200200403

Item	Code	Description	Qty.
1A	200125148	STEPS DECK TO DECK 1016 (TDV) KB (2002)	1
1B	200146670	STEPS DK/DK 1016 F/KB (TDV)SMALL HOLE	1
2	200125337	SAFETY RAIL LFT. KB 40" DK/DK TAN	1
3	200125340	SAFETY RAIL RGT. KB 40" DK/DK TAN	1
9	200006754	HOODED RAIL CLAMP TAN F/KB	4

HDWR BAG F/KB DECK-TO-DECK STEPS  
200041200

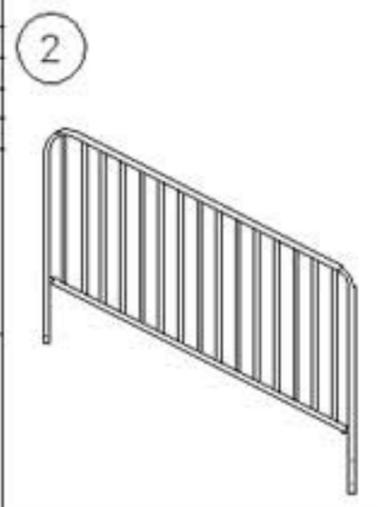
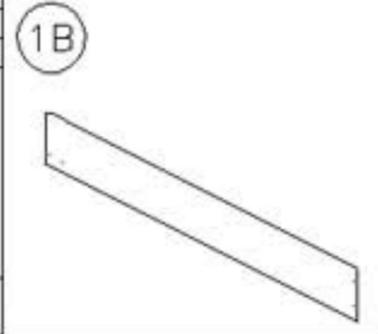
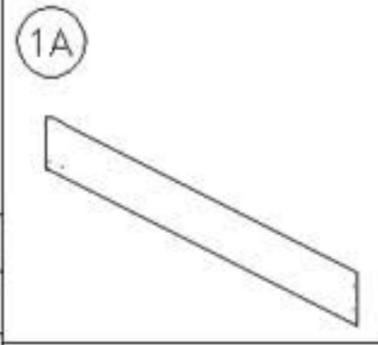
Item	Code	Description	Qty.
4	200002150	SCREW MACH BUTTONHEAD M10 X 1.5 X 55 MM	6
5	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	8
6	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	14
7	200002079	WASHER FLAT M11 23 X 12 X 1.6	22
8	200008483	WASHER BOWED M11 23.5 X 11.7 X 1.57 MM	6

**Application**

-For use between two decks which are 1016mm [40"] different in height.

**Installation Instructions**

1. Prepare footings.
2. Attach the top of the Steps to the front of the upper deck as shown in DETAIL 1.
3. Attach the lower end of the Steps to the front of the Lower deck as shown in DETAIL 1.
4. Slide hooded rail clamps onto rail stubs and loosely attach to posts (refer to front of manual for clamp installation detail). Attach the lower ends of the handrails to the sides of the Steps in three places per handrail as shown in DETAIL 2.
5. Tighten all hardware and install clamp drive pins.
6. Complete footings and install resilient surfacing.



[NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS]