

APPENDIX A:
PLAYGROUND EQUIPMENT MANUFACTURER'S
INSTALLATION INSTRUCTIONS

APPENDIX A:

Eagle Trace Park

**PLAYGROUND EQUIPMENT MANUFACTURER'S
INSTALLATION INSTRUCTIONS**

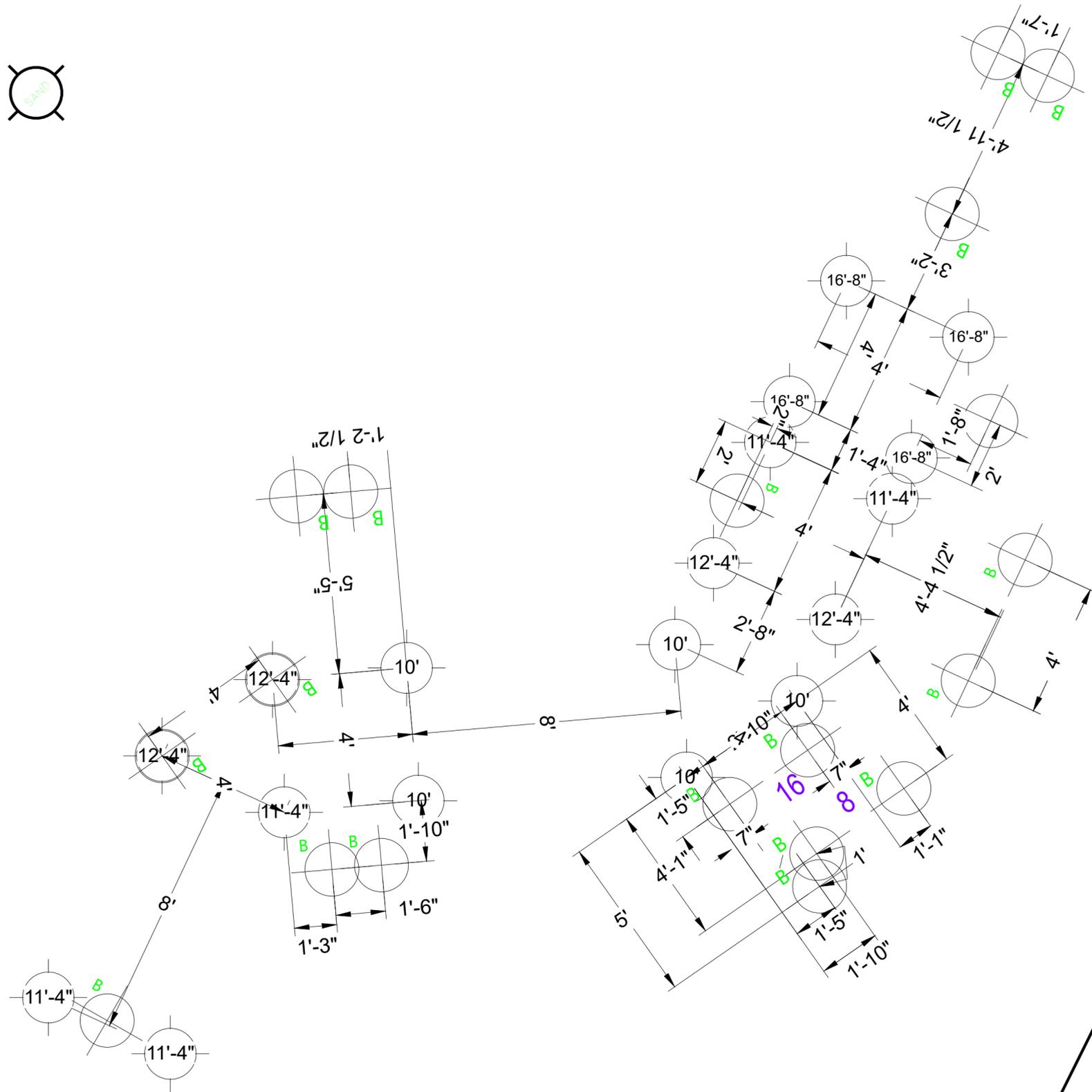


Project Number: R0324200140
PlayArea: PlayArea_1 | KidBuilders
Project Name:
Project Location:
Sales Representative:
Northland Recreation
10085 Bridgewater Bay
Woodbury, MN 55129
2623138636

Installation Instructions

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

Date: 2/19/2020 12:00:00 AM



Footing Drawing Legend: Numbers in center of symbols denote post length (inches).

For inground equipment:

Post footing for posts for caps.



Post footing for posts without caps.



Play event footing

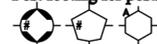


Custom Footing. See install for details

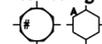


For surface mounted equipment:

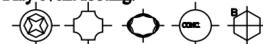
Post footing for posts with caps.



Post footing for posts without caps.



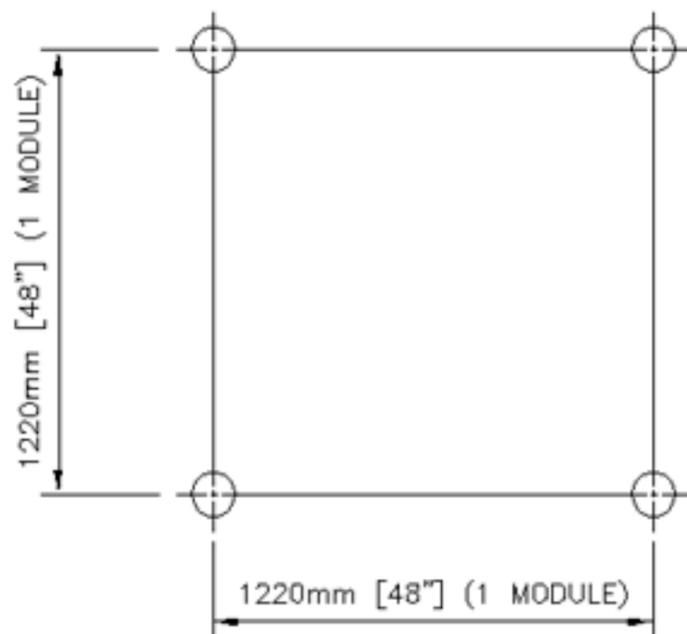
Play event footing.



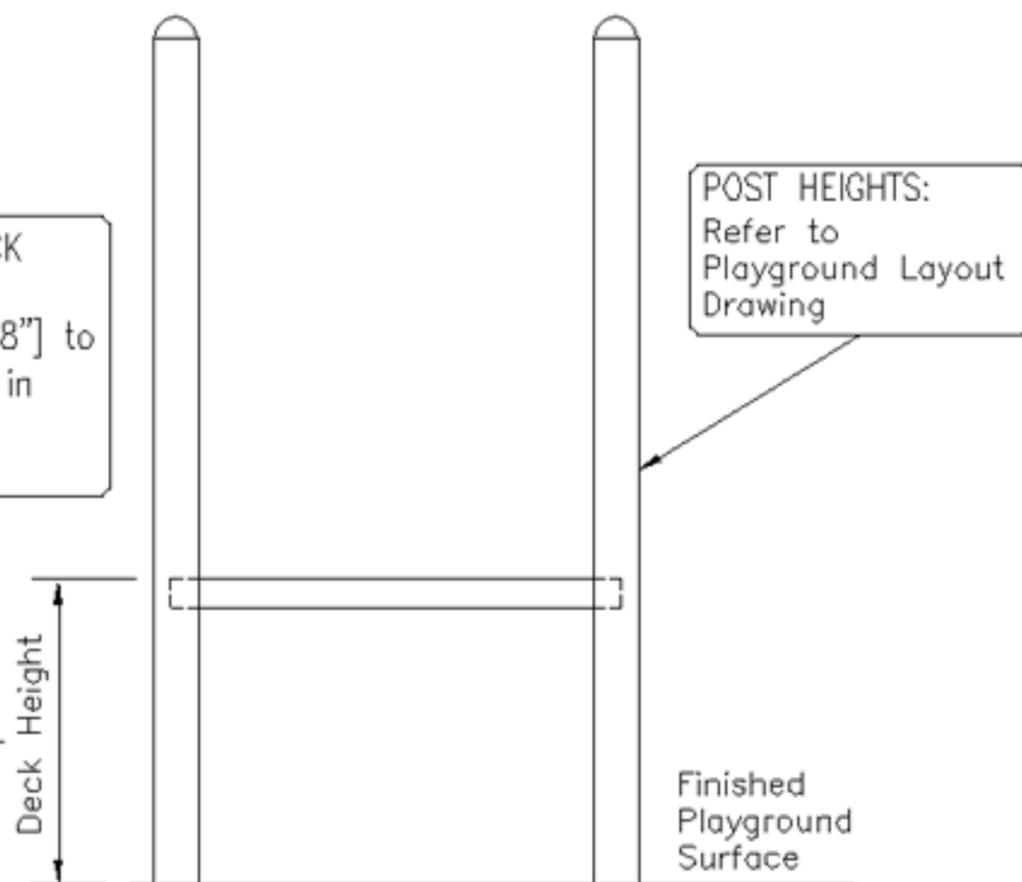
Custom Footing. See install for details



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

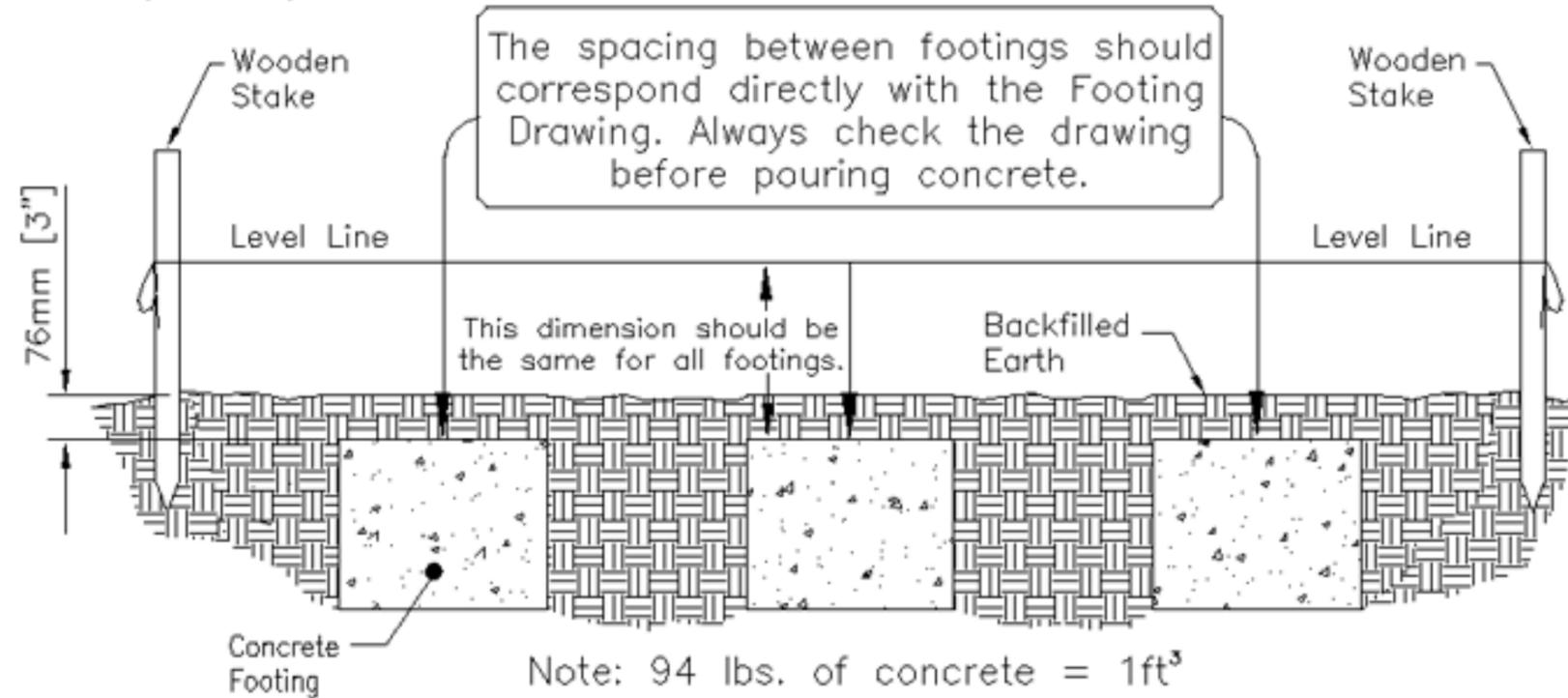
THE ORDER OF ASSEMBLY:

- 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 = 1ft³
207 grams = 0.041m³

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

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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.

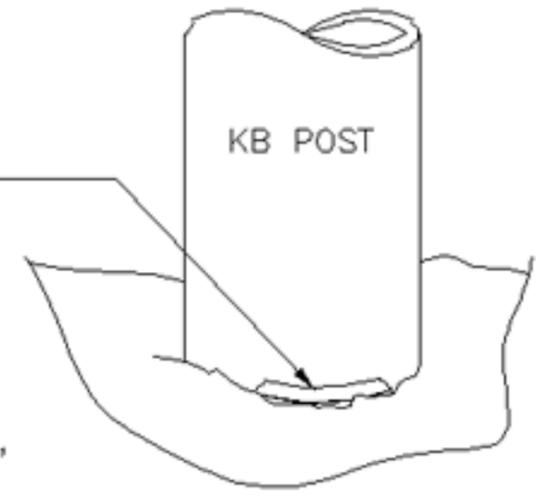
Do not place this label in a high traffic area or in a location of excessive wear. If the label becomes illegible, destroyed, or removed, it is necessary for the operator to replace the label as soon as possible.

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.

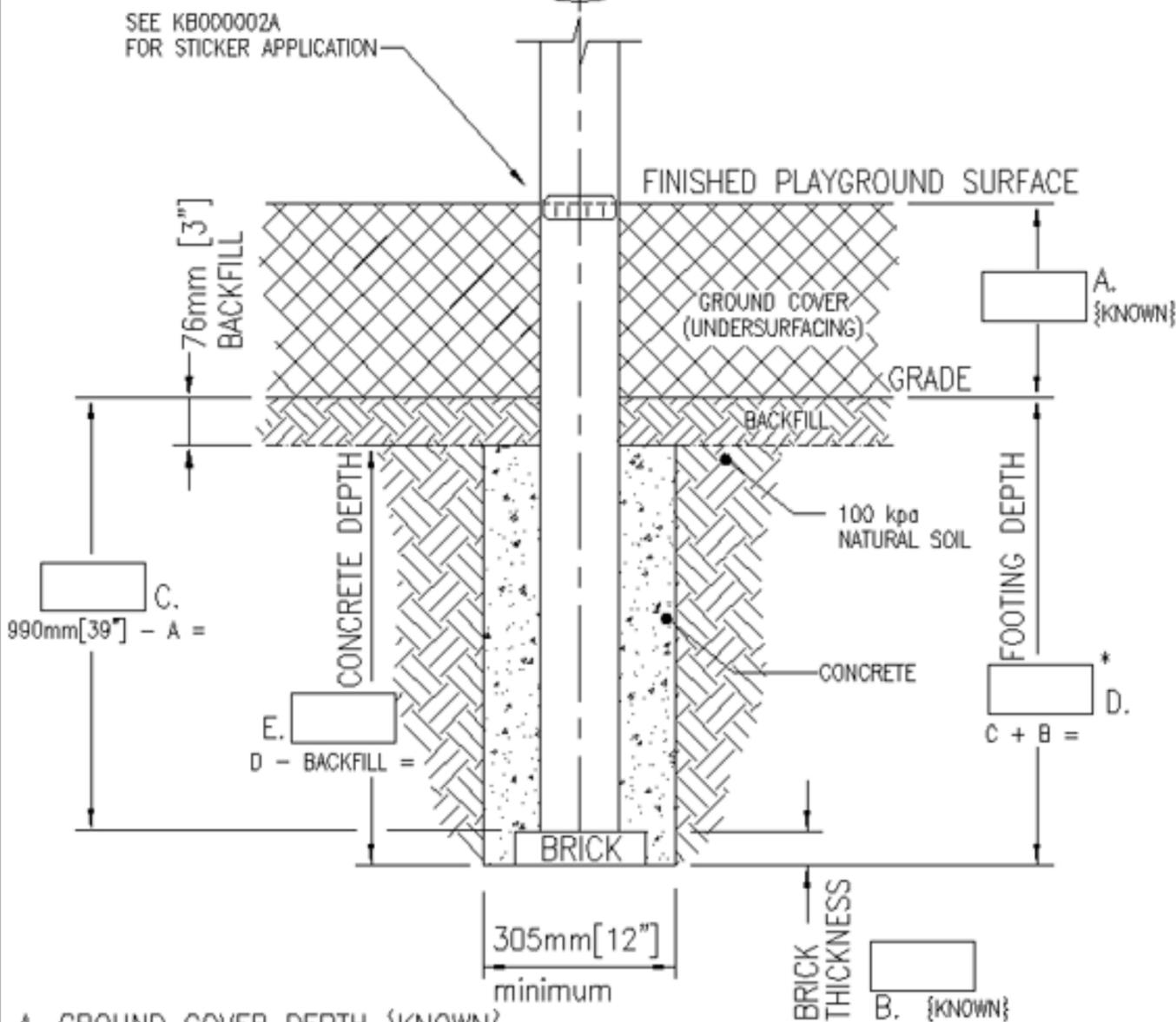
If you are in need of Material Safety Data Sheets pertaining to the use and handling of any maintenance materials such as touch-up paint, vinyl repair kits or for product such as, Kid Tiles adhesive or urethane top coatings, please contact our Customer Service Department at 1(800)325-8828. They will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

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 AMORTISSANTE DOIT ATTEINDRE CE NIVEAU



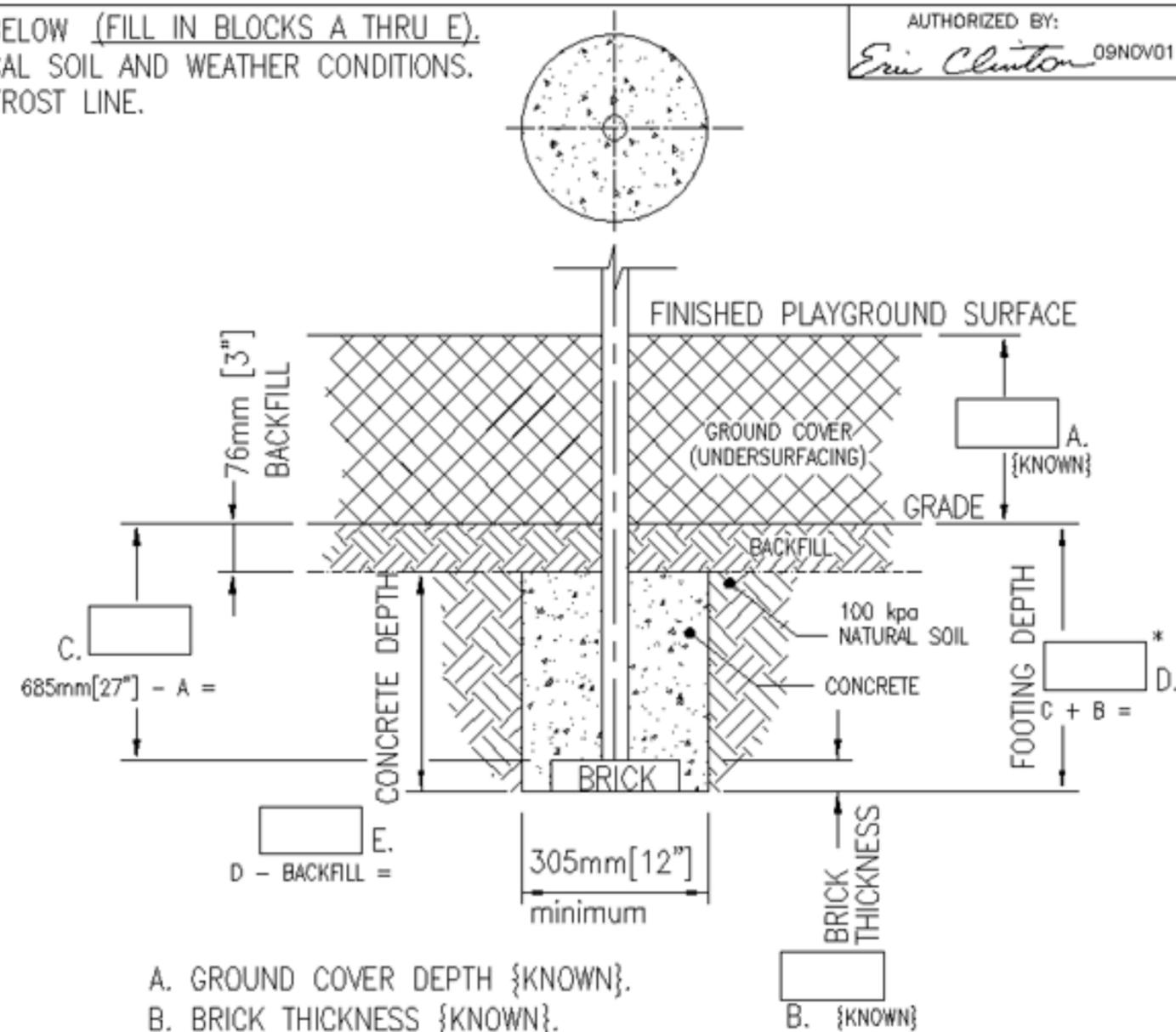
The sticker shown here has been provided to assist with the maintenance of your ground cover. After installing the ground cover, these stickers should be placed on the post by the installer (as shown). Peel the backing away from the sticker and attach it to the post so that the line is level with the 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:

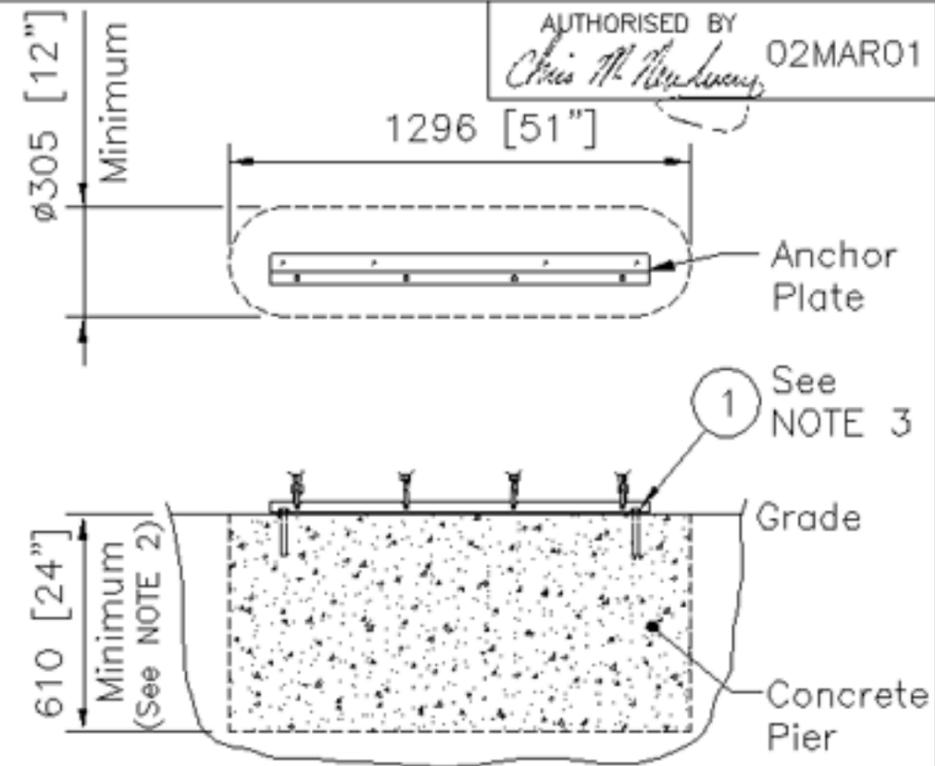
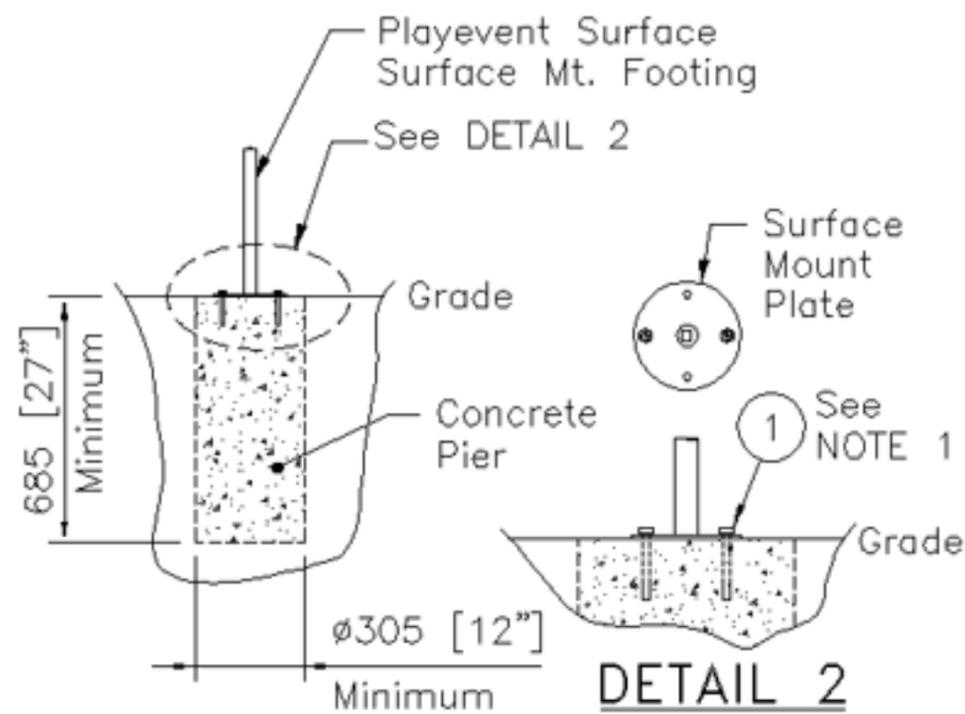
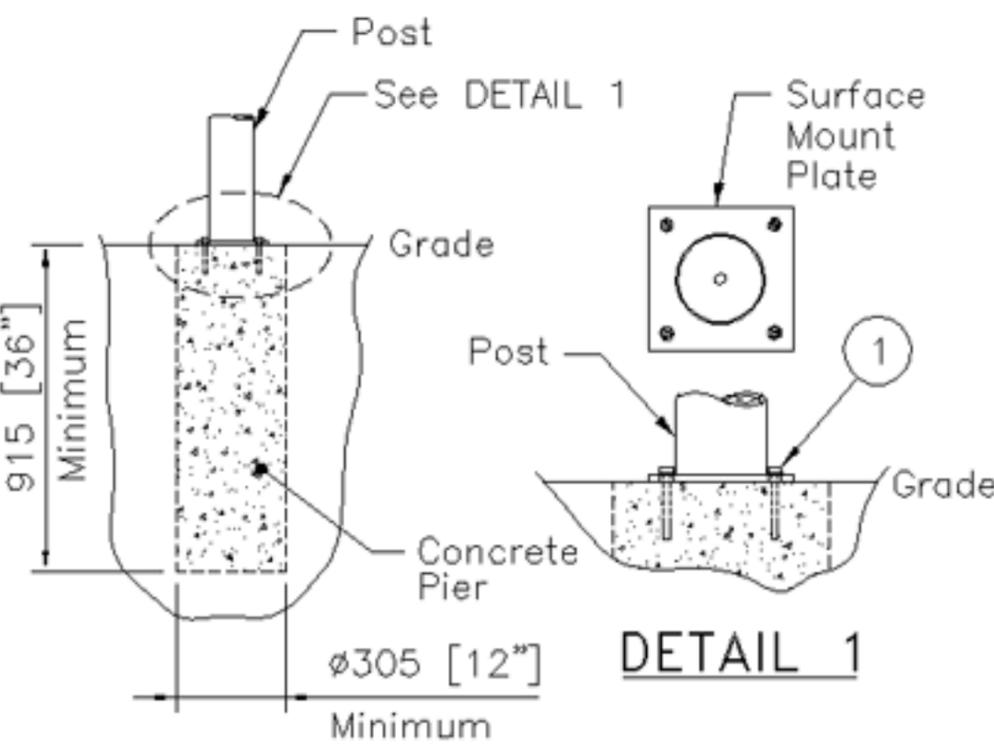
= 0.067 M³ x $\frac{\text{CONCRETE DEPTH (mm)}}{915}$ x No. OF FOOTING HOLES = M³

= 0.087 Yard³ x $\frac{\text{CONCRETE DEPTH (IN)}}{36}$ x No. OF FOOTING HOLES = Yard³

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

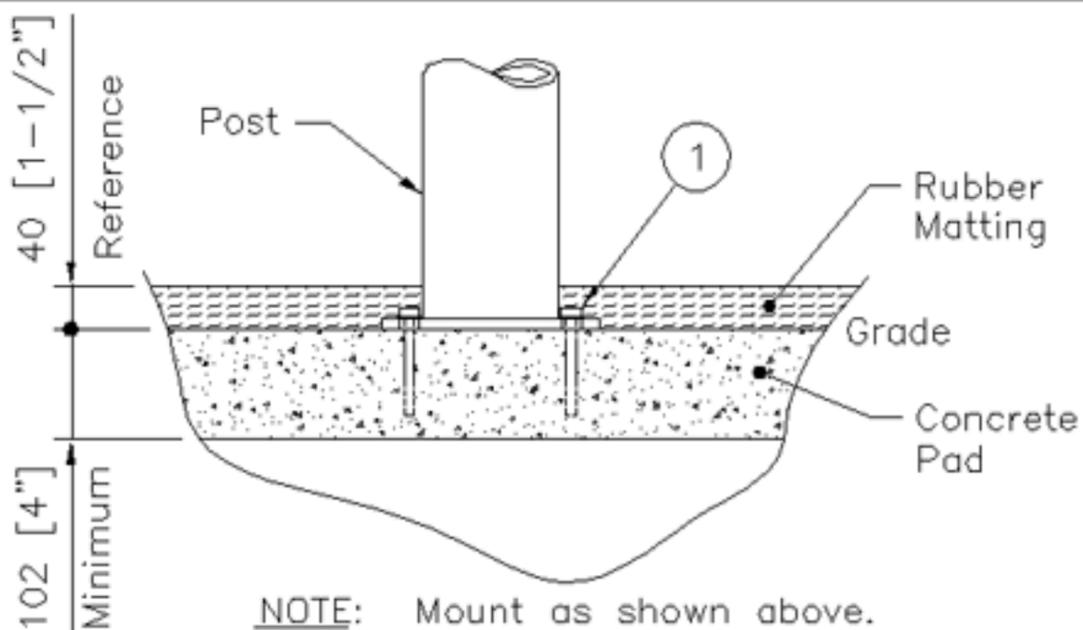
Item	Dwg Ref	Description	Qty.
1	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100MM	2

Playevent Footing

OPTION 2: CONCRETE PAD

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

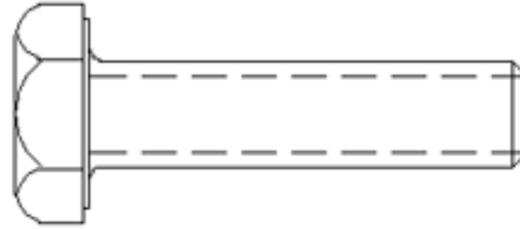
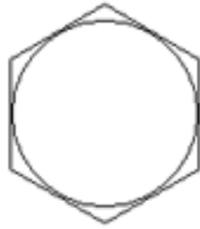
NOTE 5: A 3/8" Masonry bit is required to install anchor bolts.



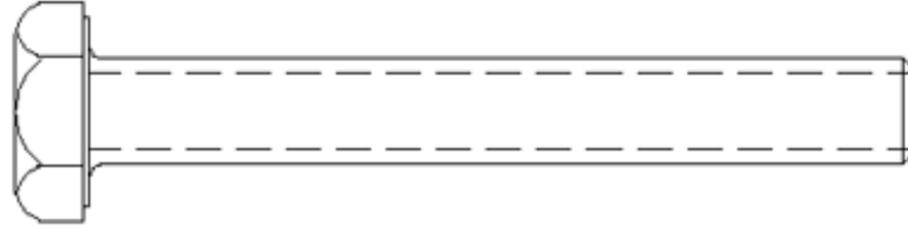
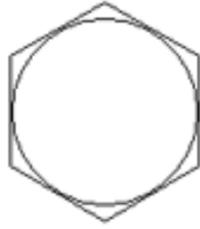
NOTE: Mount as shown above.

AUTHORIZED BY:
Chris M. Newberry 01MAR01

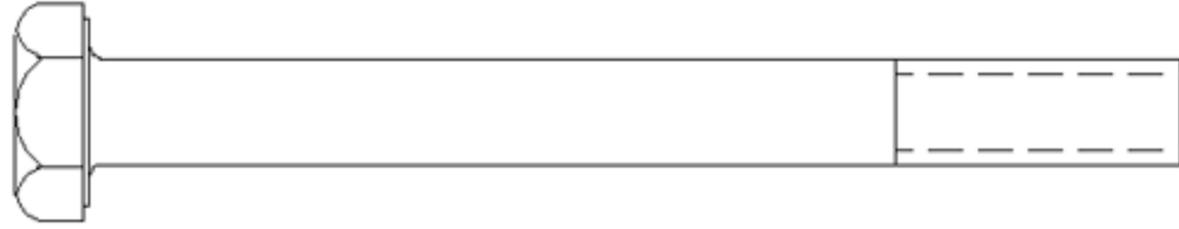
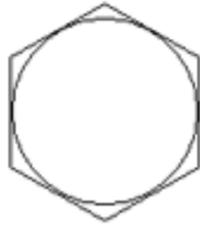
200001850
CAP SCREW HEX HEAD M10 x 1.50 x 40mm



200001859
CAP SCREW HEX HEAD M10 x 1.50 x 75mm



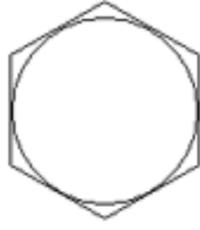
200001866
CAP SCREW HEX HEAD M10 x 1.50 x 100mm



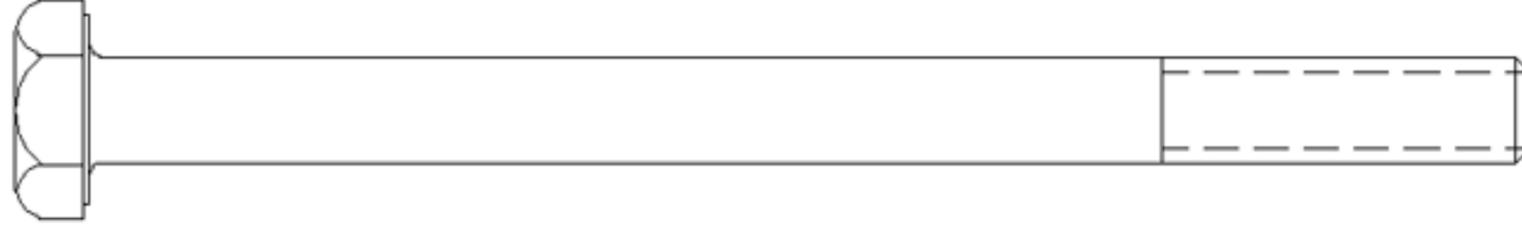
200001875
CAP SCREW HEX HEAD M10 x 1.50 x 110mm



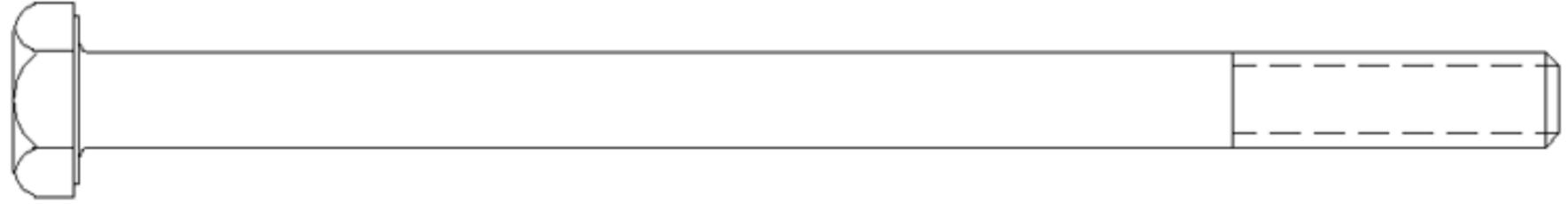
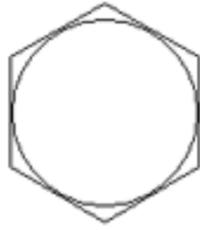
200001879
CAP SCREW HEX HEAD M10 x 1.50 x 120mm

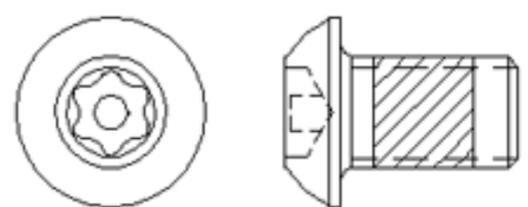


200001883
CAP SCREW HEX HEAD M10 x 1.50 x 130mm

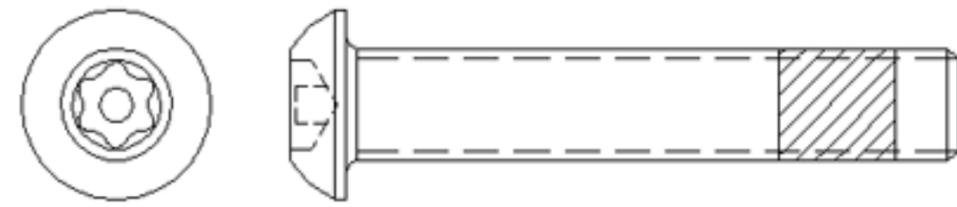


200000792
CAP SCREW HEX HEAD M10 x 1.50 x 150mm

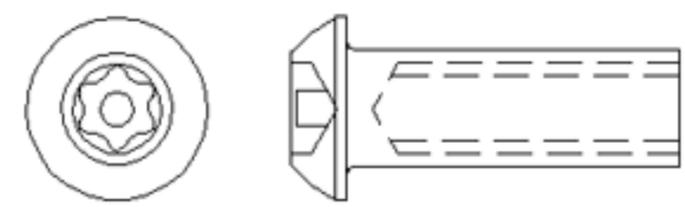




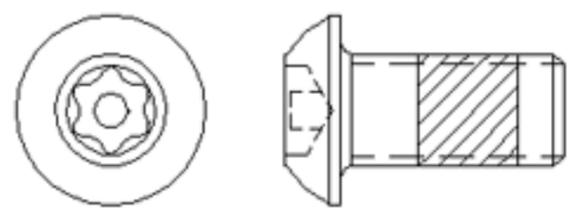
200002010
SCREW MACH BUTTONHEAD M10 x 1.50 x 16mm



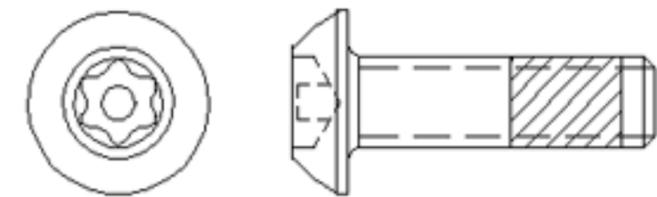
200002150
SCREW MACH BUTTONHEAD M10 x 1.50 x 55mm



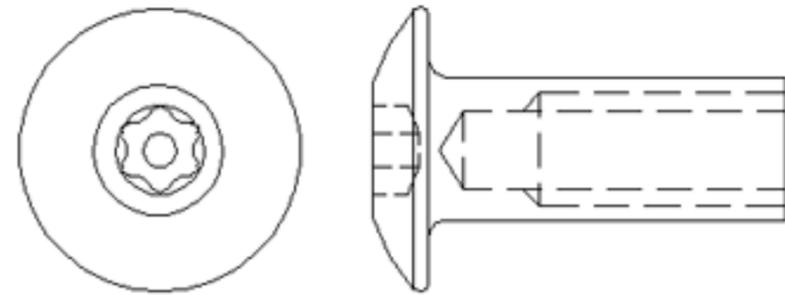
200002145
BOLT M8 x 1.25 FEMALE 10.3 x 30mm



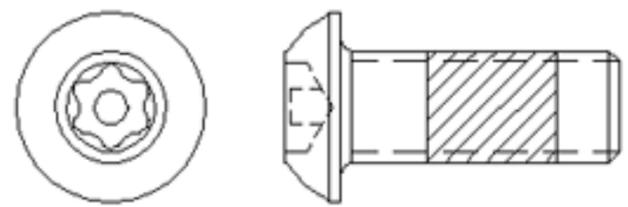
200002014
SCREW MACH BUTTONHEAD M10 x 1.50 x 20mm



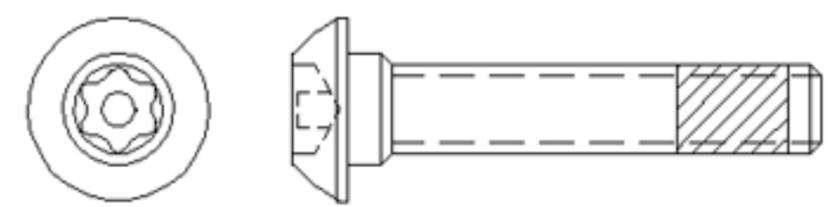
200002133
BOLT M8 x 1.25 MALE 27.5mm



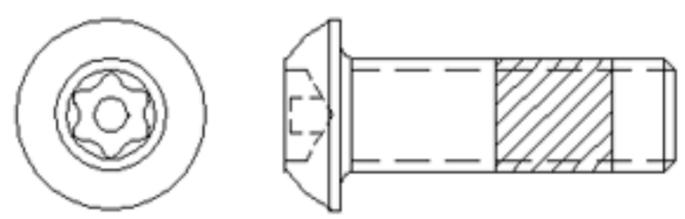
200001954
BARREL NUT M10 X 1.50 (12.70 DIA x 32mm)



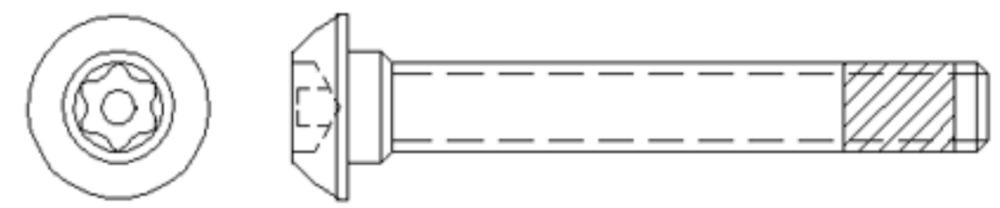
200002018
SCREW MACH BUTTONHEAD M10 x 1.50 x 25mm



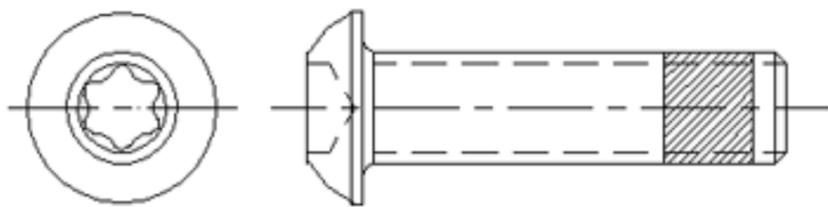
200002138
BOLT M8 x 1.25 MALE 42.5mm



200002030
SCREW MACH BUTTONHEAD M10 x 1.50 x 30mm

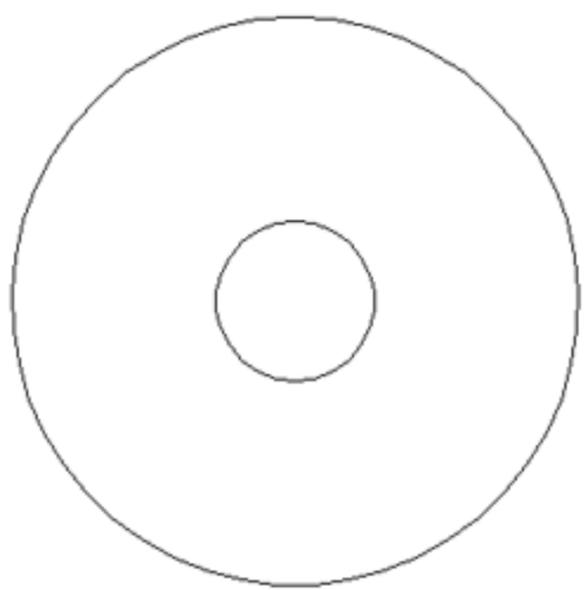


200002142
BOLT M8 x 1.25 MALE 57.5mm

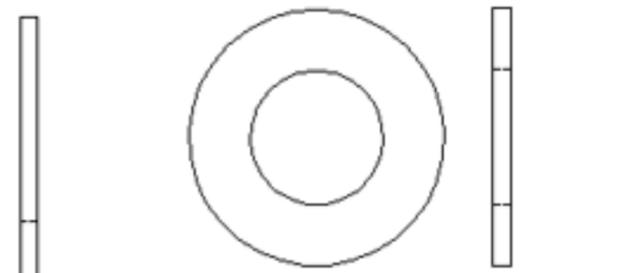


200097726
SCREW MACH BUTTONHEAD M10 x 1.50 x 38mm

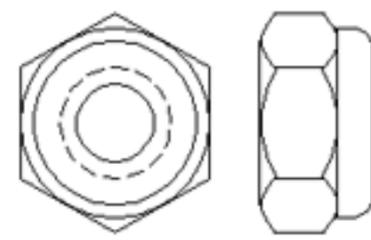
AUTHORIZED BY:
BARRY WILFONG 15FEB12



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



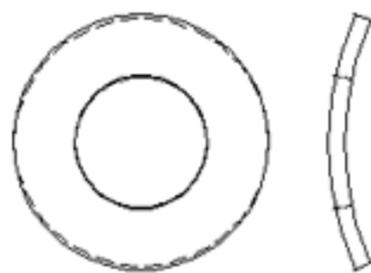
200002079
WASHER FLAT M11 23 x 12 X 1.6mm



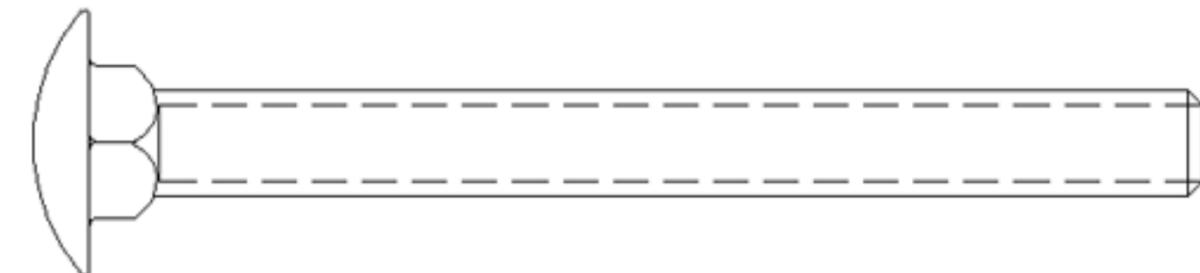
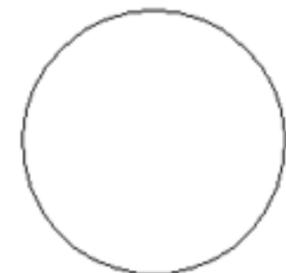
200001945
NUT LOCK HEX NYLON INSERTED M10 x 1.5



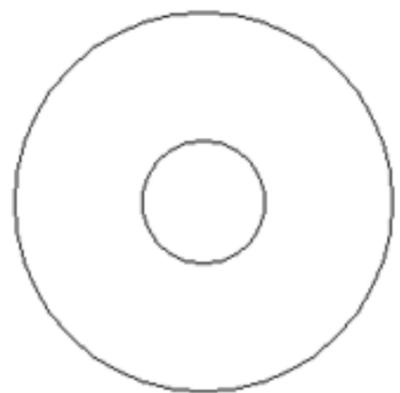
200002002
SCREW DRILL HEX HEAD M6 .3 x 1.81 x 65mm



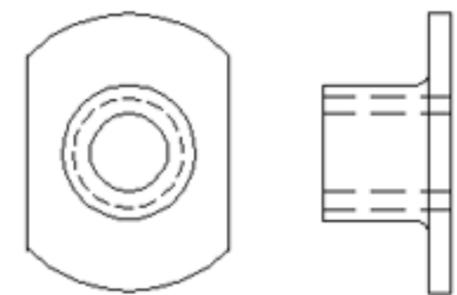
200008483
WASHER BOWED M11 23.5 x 11.7 x 1.57 mm



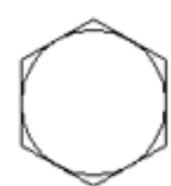
200001810
BOLT CARRIAGE M10 x 1.50 x 100mm



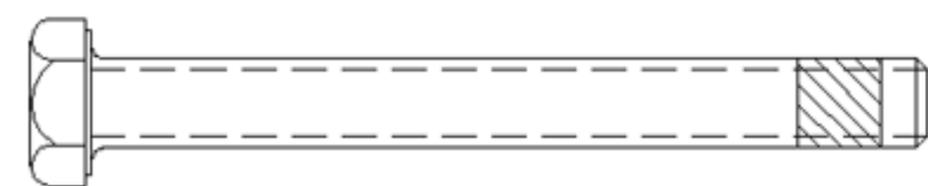
200002096
WASHER FLAT M10 34OD x 11ID x 3 mm THK



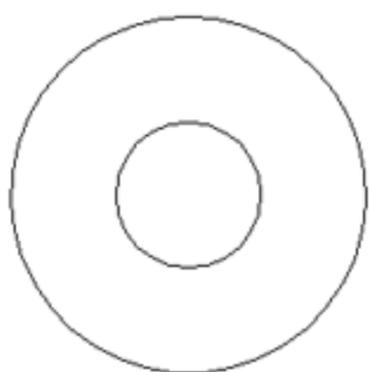
200001966
T-NUT SLAB BASE M10 x 1.50 x 9.5mm



200001826
CAP SCREW HEX HEAD M8 X 1.25 X 75mm



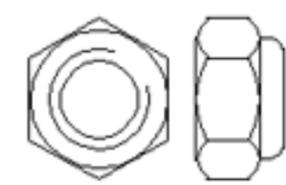
200001986
SCREW U-DRIVE ROUND HEAD M5 x 16mm



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



200001776
ANCHOR CONCRETE WEDGE M10 x 1.5 x 100mm



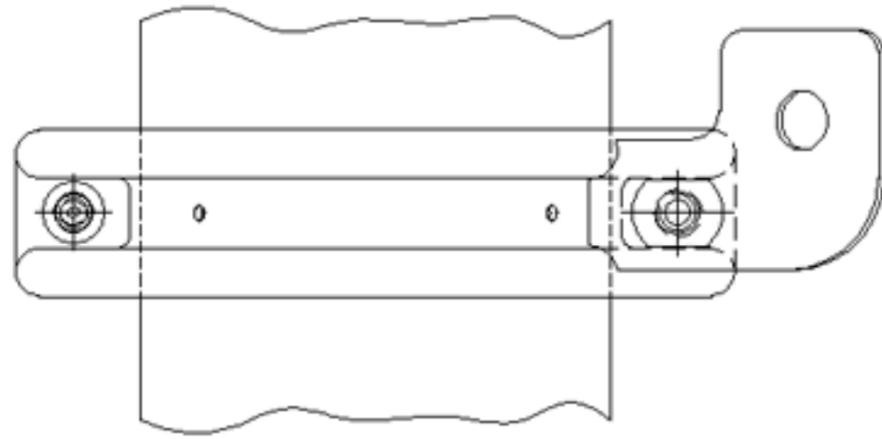
200001934
NUT LOCK HEX NYLON INSERTED M8 x 1.25



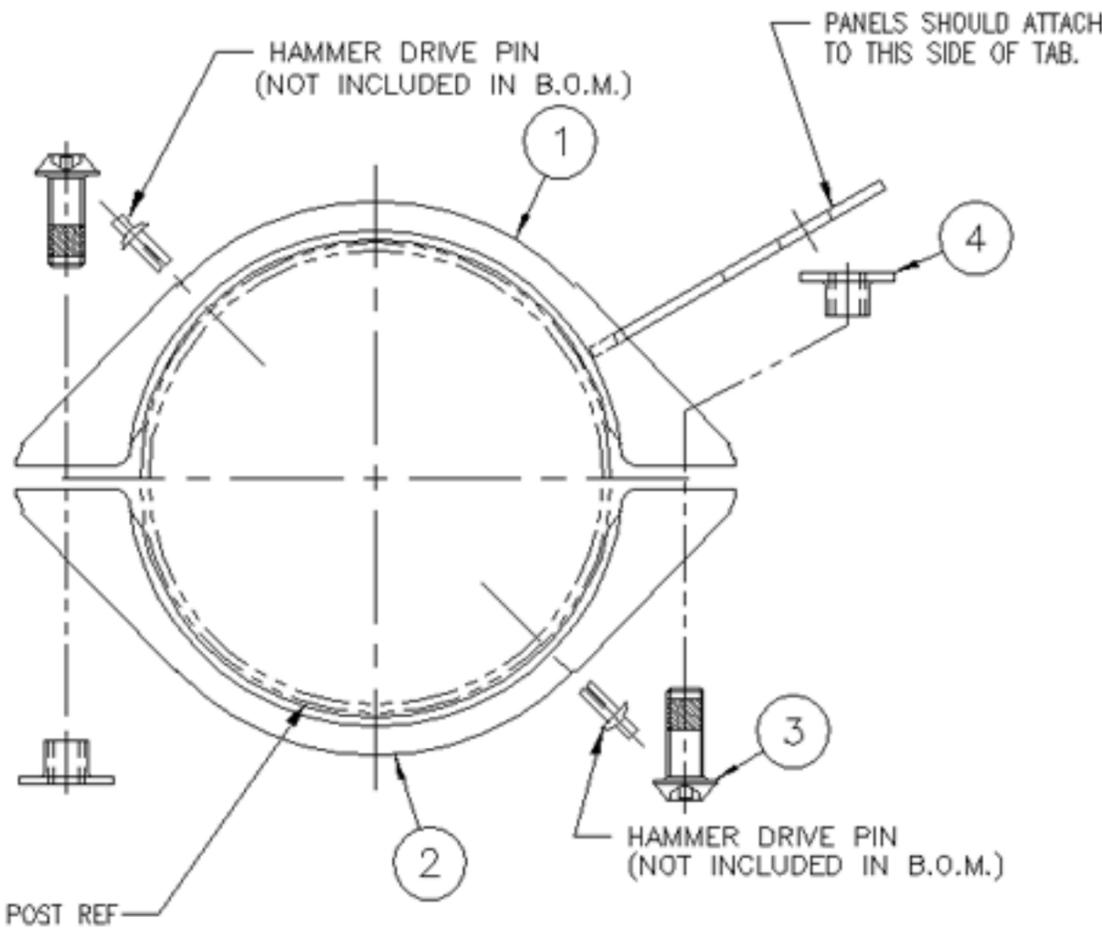
CLAMP HI-LO TAB F/KB

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

KB000009A

AUTHORIZED BY:
[Signature] 03AUG99

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

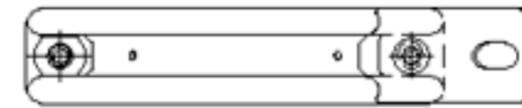
- CHECK ALL HARDWARE
- TOUCH UP ANY MARRED PAINT SURFACE

Installation Instructions

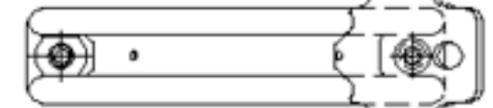
1. POSITION THE CLAMP HALVES AROUND THE POST AND LOOSELY CONNECT HALVES TOGETHER WITH THE HARDWARE SHOWN. CLAMPS SHOULD BE ORIENTED SO THAT PANELS WILL ATTACH TO THE TAB FACE SHOWN IN THE DETAIL.
2. MOVE THE CLAMP ASSEMBLY ALONG THE POST UNTIL IT LINES UP WITH THE LOCATION THAT IT WILL BE CONNECTED TO 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.

PANEL OR WING CLAMP

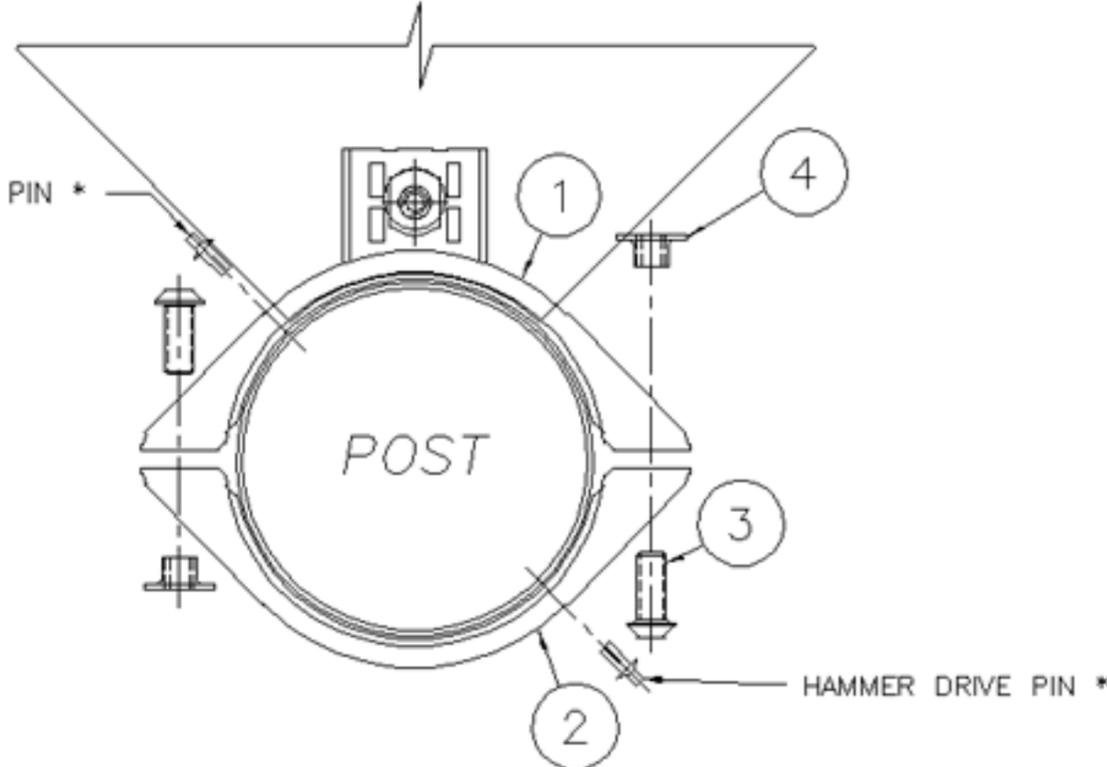
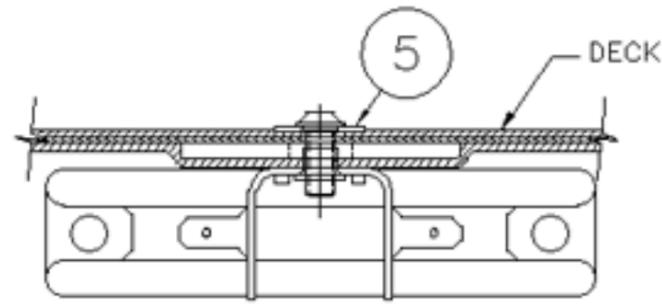
ITEM	CODE	DESCRIPTION	QTY
1	-	CLAMP HALF W/TAB F/PANEL MT. ZN	1
-OR-	-	CLAMP HALF W/TAB F/KB WING CLAMP	1
2	-	CLAMP HALF W/O WELDED ATTACHMENT ZN	1
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	2
4	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	2



REF: PANEL CLAMP

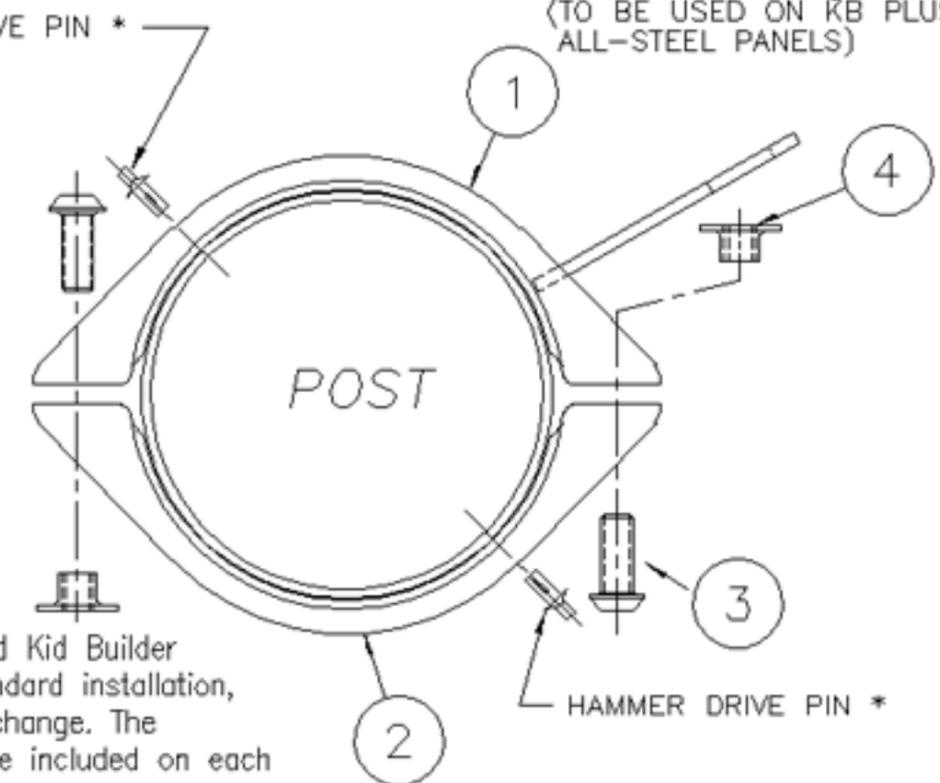


REF: WING CLAMP
(TO BE USED ON KB PLUS ALL-STEEL PANELS)



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.

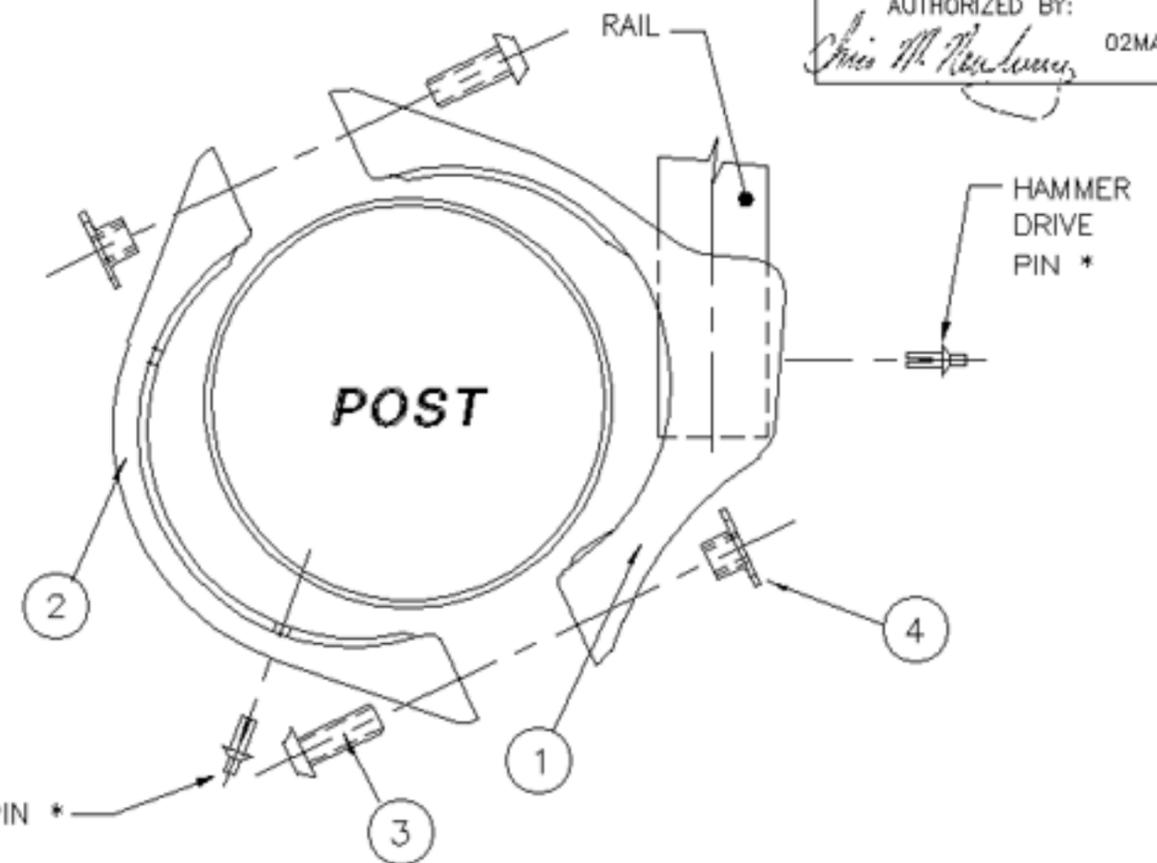
* Hammer drive pins are not included in the clamp hardware bag. They are located in a separate bag in the hardware kit.

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.

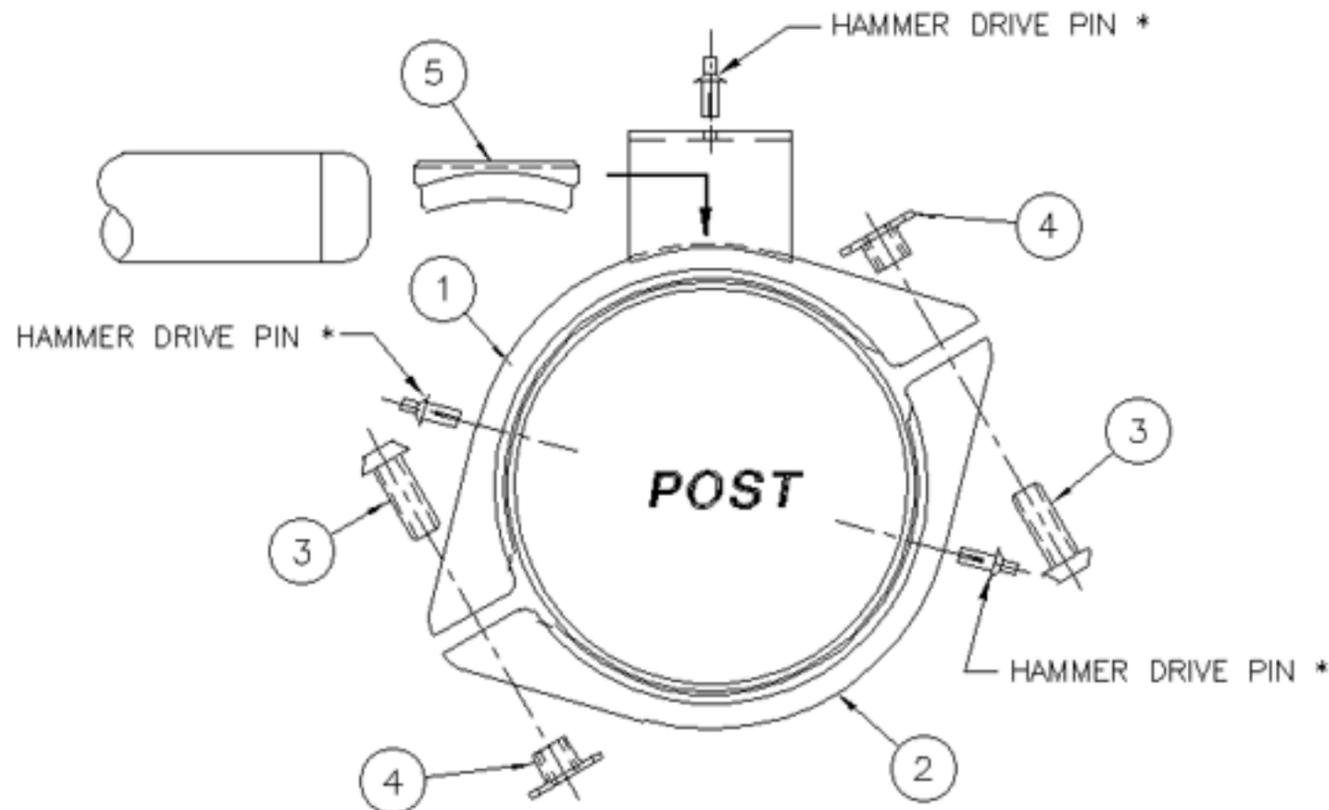
1. Each Clamp half will have a small hole and a large hole on opposite sides. The Larger hole accommodates the Tee Nuts.
2. Always make sure the event is at the proper height and the clamps are level before Hammer Drive Pins are installed.
3. There will also be two smaller pilot holes on each clamp half. 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

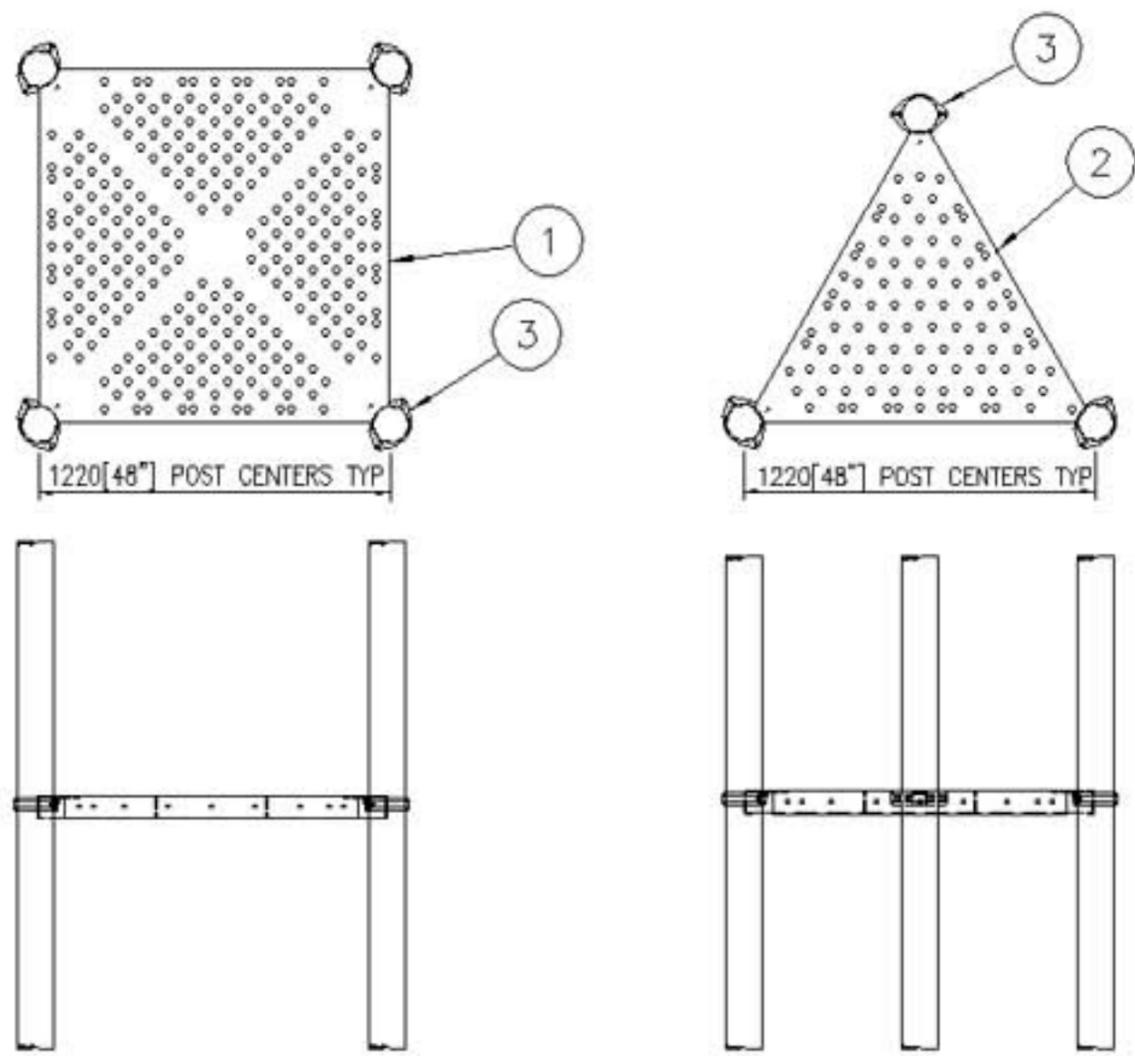


HOODED RAIL CLAMP

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



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

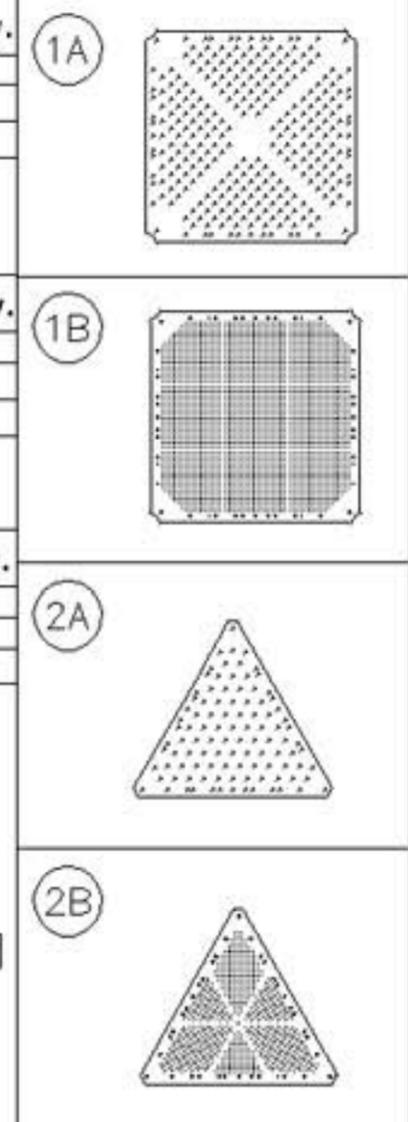
Item	Code	Description	Qty.
4	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	7
5	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	7
6	200002079	WASHER FLAT M11 X 12 X 1.6MM	14

Application
AGE GROUPS (2-12 YEAR OLDS)

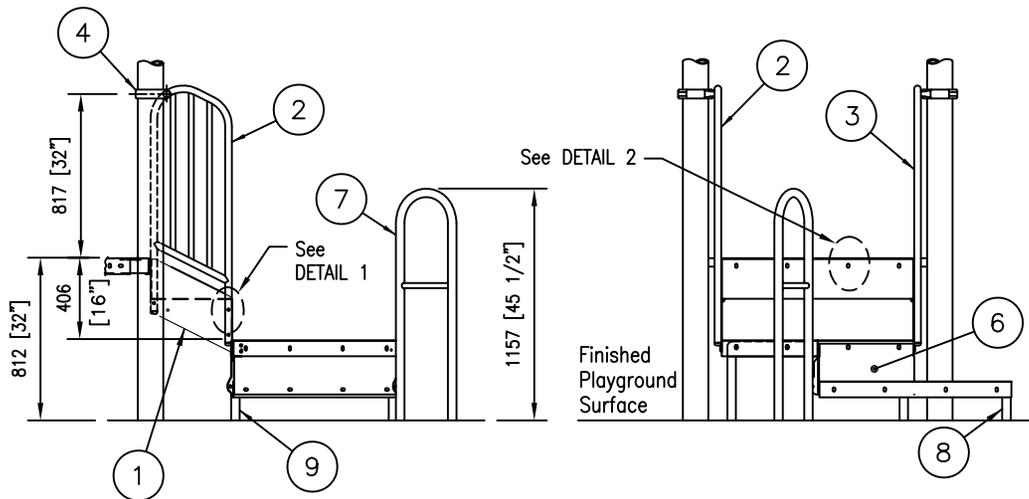
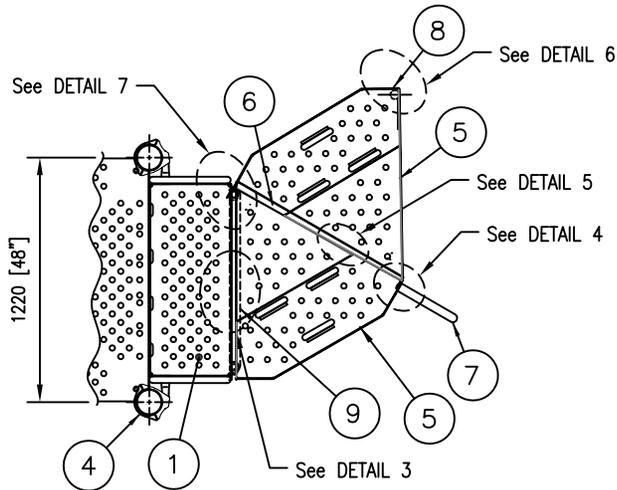
- Decks are considered platform events and can be used by all ages if installed at an appropriate height for the particular age group.
- A deck above 508mm [20"] must have an enclosure for ages 2-5 max. height difference between adjacent decks is 305mm[12"] without alternative means of access.
- A deck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



NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS



**RIGHT TRANSFER STATION
W/SAFETY RAILS SHOWN**

NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

- 200202550-KB TRANS STAT 812 SFTY RL 11GA
- 200202552-KB TRANS STAT 812 GRD RL 11GA
- 200202551-KB TRANS STAT 812 SFTY RL (SM HL)11GA
- 200202553-KB TRANS STAT 812 GRD RL (SM HL)11GA

Item	Code	Description	Qty.
1A	910549*	STEPS DECK-TO-DECK 406MM	1
1B	910548*	STEPS DECK-TO-DECK 406MM SM HOLE	1
2A	911032*	GUARD RAIL LFT KB 812 TRSFR	1
2B	911031*	GUARD RAIL RGT KB 812 TRSFR	1
3A	911030*	SAFETY RAIL LFT KB 812 TRSFR	1
3B	911029*	SAFETY RAIL RIIGHT KB 812 TRSFR	1
4	909346*	HOODED RAIL CLAMP F/KB	2
5A	902717*	DECK SNO CONE TRANSFER STATION LG HOLE	2
5B	902688*	DECK SNO CONE TRANSFER STATION SM HOLE	1
6	910421*	PLATE KICK F/TRANSFER STATION	1
7A	911253*	LOOP TRSFR STATION 40 SM	1
7B	911252*	LOOP F/TRSFR STATION 305 SFMT	1
7C	911251*	LOOP F/TRSFR STATION BURIED	1
8A	910044*	SUPP FOOT TRSFR STAT DK SM40	1
8B	910043*	SUPP FOOT TRSFR STAT DK SM305	1
8C	910042*	SUPP FOOT TRSFR STAT DK BURIED	1
9A	910041*	SUPP STEP TRSFR STAT 40 SRFMT	1
9B	904419*	SUPP STEP TRSFR STAT 305 SFMT	1
9C	910040*	SUPP STEP TRSFR STAT BURIED	1
10	HW1CLMPSET-1	HRDW PKG F/1SET O/CLAMPS S1/1	3
11	HW16252-1	HRDW PKG KB TRSFR STATION 1/4	1
12	HW16252-2	HRDW PKG KB TRSFR STATION 2/4	1
13	HW16252-3	HRDW PKG KB TRSFR STATIN 3/4	1
14	HW16252-4	HRDW PKG KB TRSFR STATIN M4/4	1

Note: An (*) by a part number (Code) indicate: Color Code Required.

HRDW PKG F/1SET O/CLAMPS S1/1 - HW1CLMPSET-1

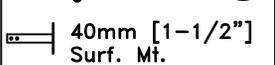
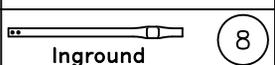
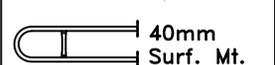
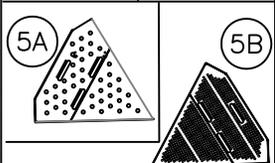
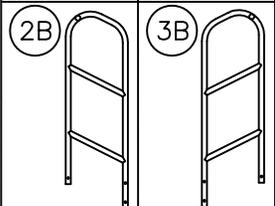
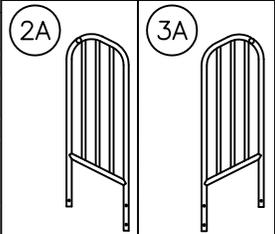
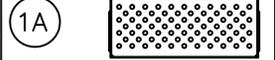
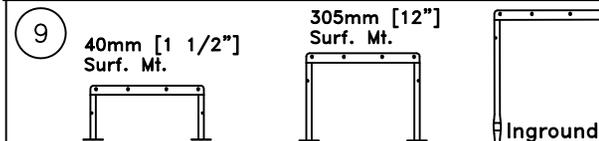
Item	Code	Description	Qty.
15	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	2
16	200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	2
17	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	2

**HRDW PKG KB TRSFR STATION 1/4 - HW16252-1
HRDW PKG KB TRSFR STATION 2/4 - HW16252-2
HRDW PKG KB TRSFR STATION 3/4 - HW16252-3
HRDW PKG KB TRSFR STATION M4/4 - HW16252-4**

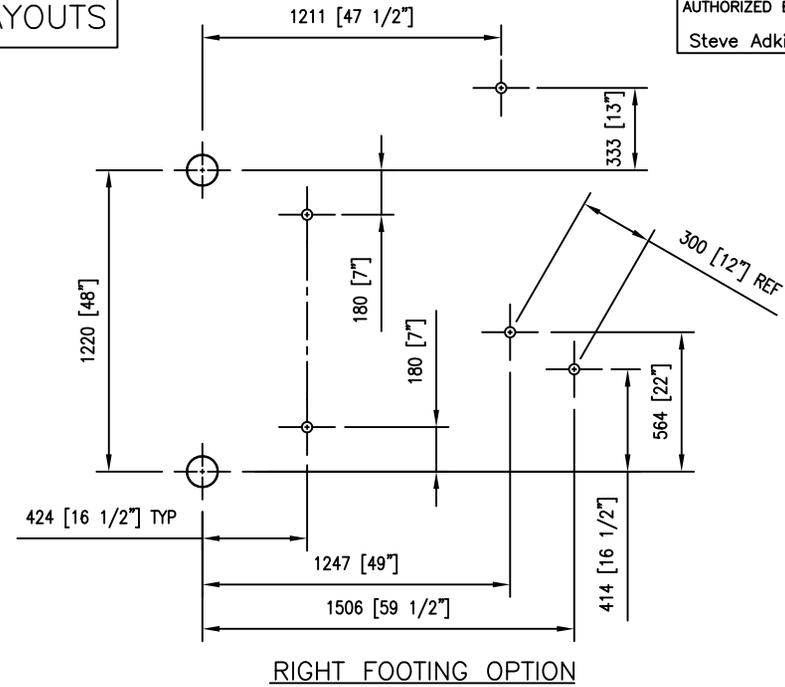
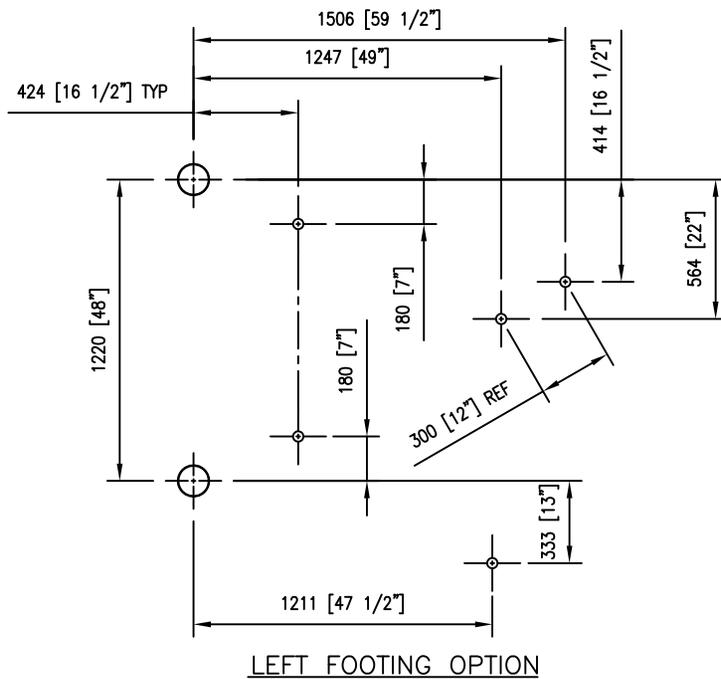
Item	Code	Description	Qty.
18	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	22
19	200002018	SCREW MACH BUTTONHEAD M10 X 1.5 X 25MM	12
20	200002030	SCREW MACH BUTTONHEAD M10 X 1.5 X 30MM	4
21	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	43
22	200002133	BOLT M8 X 1.25 MALE 27.5mm	5
23	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30mm	5
24	200002150	SCREW MACH. BUTTONHEAD M10 X 1.5 X 55mm	6
25	200008483	WASHER BOWED M11 23.5 X 11.7 X 1.57mm	11

Application

- Provides accessibility to structure.

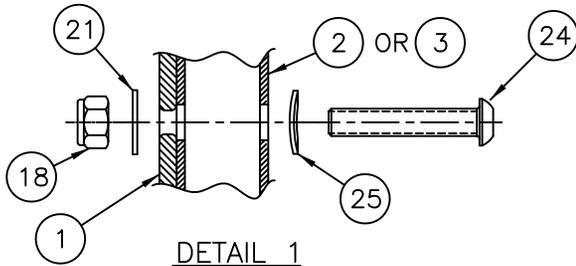


FOOTING LAYOUTS

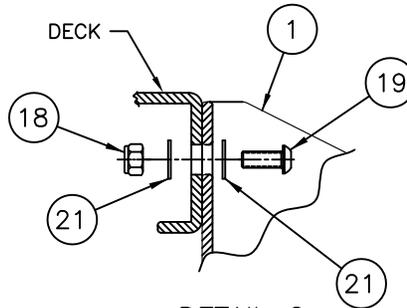


Installation Instructions

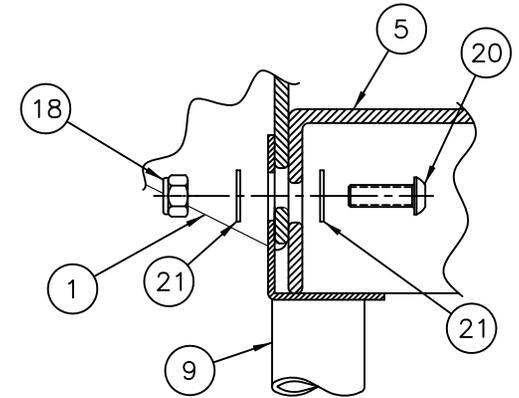
1. Prepare footings.
2. Place the Step Support under the lower end of the Steps. Attach the upper end of the steps to the existing deck edge (refer to DETAIL 2). Attach the Handrails to the sides of the Steps (refer to DETAIL 1), then attach the Handrails to the posts with Hooded Rail Clamps. (Refer 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.



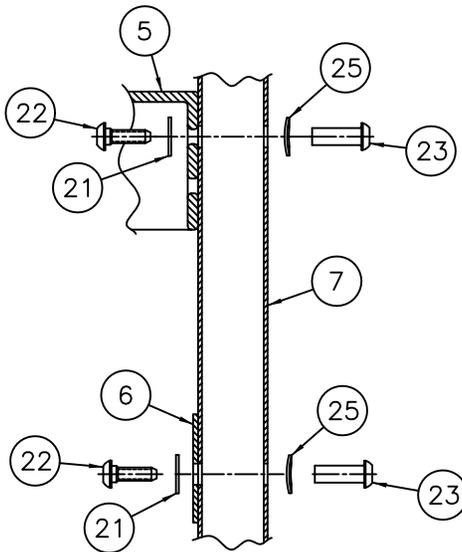
DETAIL 1
Typ 6 Places
(handrail to step attachment)



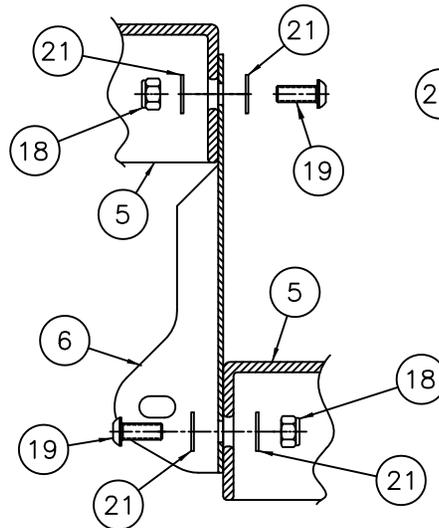
DETAIL 2
Typ 4 Places
(top of steps to deck attachment)



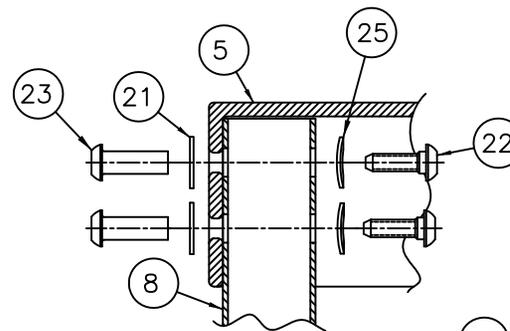
DETAIL 3
Typ 4 Places
(bottom of steps to upper sno cone deck & support step attachment)



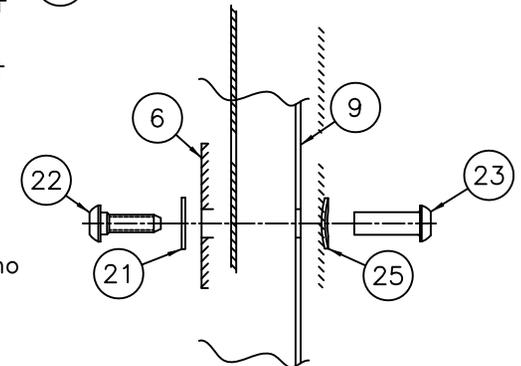
DETAIL 4
(loop to sno cone deck & kick plate attachment)



DETAIL 5
Typ 4 Places
(kick plate to upper & lower sno cone decks attachment)



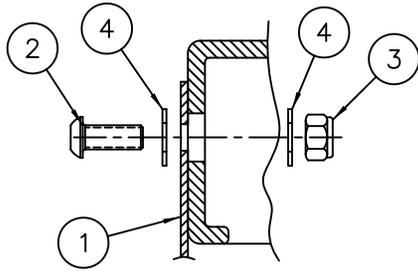
DETAIL 6
(support foot to lower sno cone deck attachment)



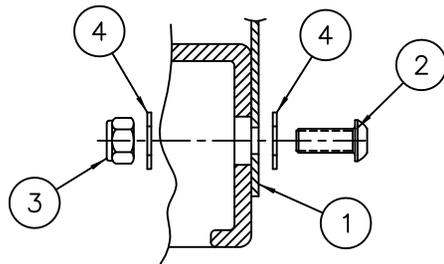
DETAIL 7
(kick plate to step support attachment)

Note: DO NOT over tighten bolts or damage may occur to the PVC coatings on components. Bolts have a thread lock patch. It is not necessary that the bolt extend into the nylon portion of the Nylock nut.

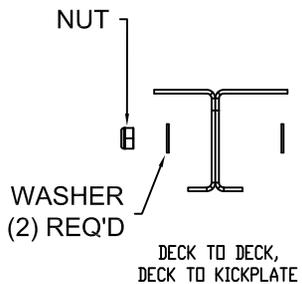
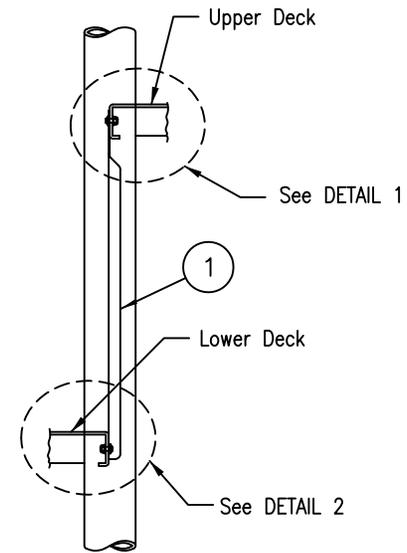
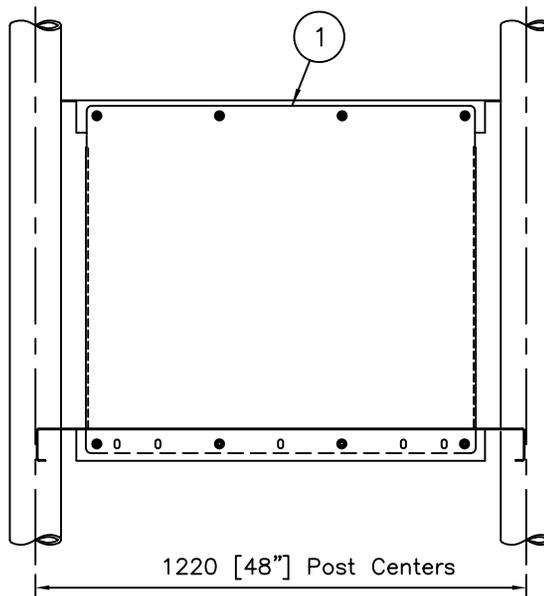
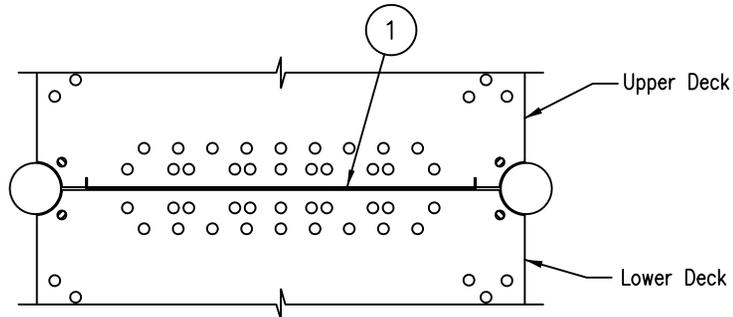
AUTHORIZED BY: 13JUN19
Matt Blisard



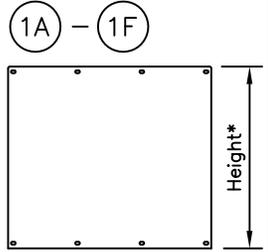
DETAIL 1
Type 4 Places



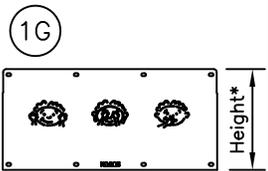
DETAIL 2
Type 4 Places



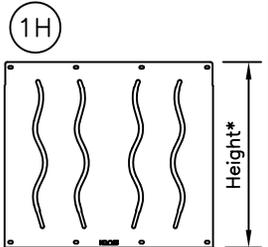
BOLT
DO NOT OVERTIGHTEN BOLTS OR DAMAGE MAY OCCUR TO THE PVC COATING ON COMPONENTS. BOLTS HAVE A THREAD LOCK PATCH. IT IS NOT NECESSARY THAT THE BOLT EXTEND INTO THE NYLON PORTION OF THE NYLOCK NUT.



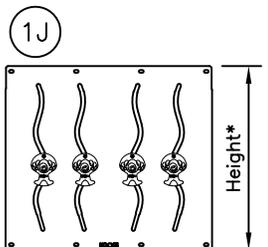
*Height will vary according to distance between decks



*Height will vary according to distance between decks



*Height will vary according to distance between decks



*Height will vary according to distance between decks



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

KB200001E

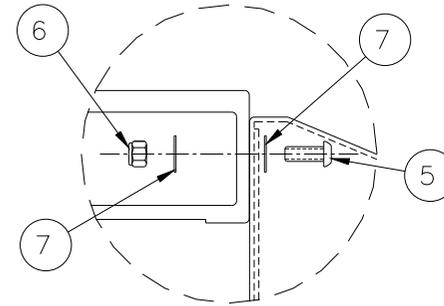
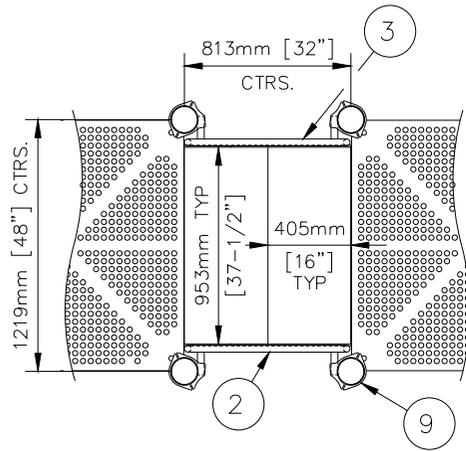
Sheet 2 of 2

AUTHORIZED BY: 13JUN19
Matt Blisard

<p>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</p> <p>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</p>	<p>Application</p> <ul style="list-style-type: none"> - 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. <p>Installation Instructions</p> <ol style="list-style-type: none"> 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. 																																																
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">Item</th> <th style="width: 10%;">Code</th> <th style="width: 75%;">Description</th> <th style="width: 10%;">Qty.</th> </tr> </thead> <tbody> <tr> <td>1A</td> <td>200000047</td> <td>PLATE DK/DK 205MM/8" KB BRN</td> <td rowspan="10" style="text-align: center; vertical-align: middle;">1</td> </tr> <tr> <td>1B</td> <td>200000049</td> <td>PLATE DK/DK 305MM/12" KB BRN</td> </tr> <tr> <td>1C</td> <td>200000051</td> <td>PLATE DK/DK 405MM/16" KB BRN</td> </tr> <tr> <td>1D</td> <td>200000053</td> <td>PLATE DK/DK 610MM/24" KB BRN</td> </tr> <tr> <td>1E</td> <td>200000056</td> <td>PLATE DK/DK 710MM/28" KB BRN</td> </tr> <tr> <td>1F</td> <td>200000058</td> <td>PLATE DK/DK 815MM/32" KB BRN</td> </tr> <tr> <td>1G</td> <td>-</td> <td>PLATE DK/DK W/FACES F/KB</td> </tr> <tr> <td>1H</td> <td>-</td> <td>PLATE DK/DK W/4 SLOTS F/KB</td> </tr> <tr> <td>1J</td> <td>-</td> <td>PLATE DK/DK W/PARACHUTE GUY F/KB</td> </tr> <tr> <td colspan="4" style="text-align: center;"> <p>HDWR BAG F/KB STEEL KICK PLATES (MM) 200007706</p> </td> </tr> <tr> <td>2</td> <td>200002018</td> <td>SCREW MACH BUTTON HEAD M10 X 1.50 X 25mm</td> <td style="text-align: center;">8</td> </tr> <tr> <td>3</td> <td>200001945</td> <td>NUT LOCK HEX NYLON INSERTED M10 X 1.5</td> <td style="text-align: center;">8</td> </tr> <tr> <td>4</td> <td>200002079</td> <td>WASHER FLAT M11 23 X 12 X 1.6mm</td> <td style="text-align: center;">16</td> </tr> </tbody> </table>	Item	Code	Description	Qty.	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	<p>HDWR BAG F/KB STEEL KICK PLATES (MM) 200007706</p>				2	200002018	SCREW MACH BUTTON HEAD M10 X 1.50 X 25mm	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	
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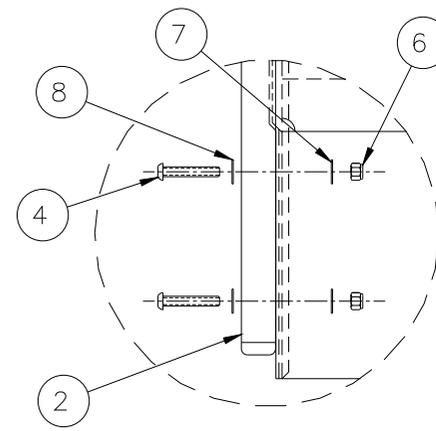
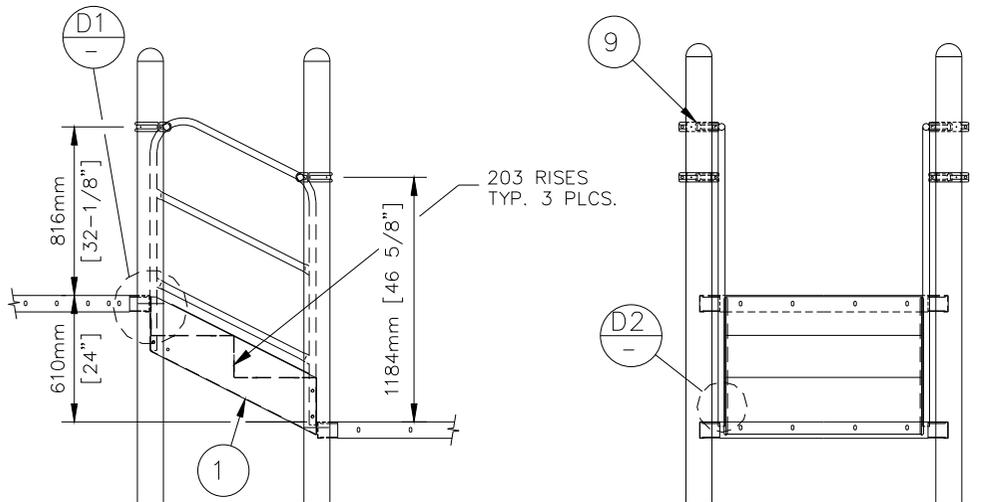
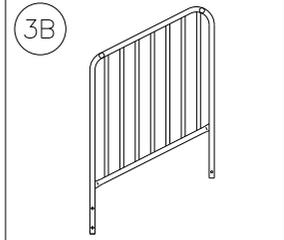
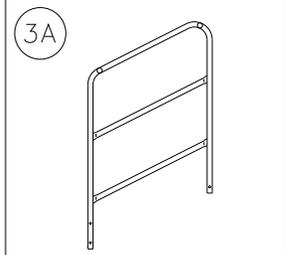
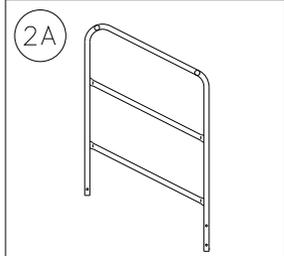
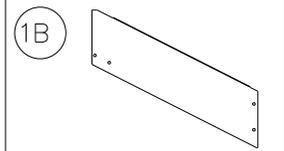
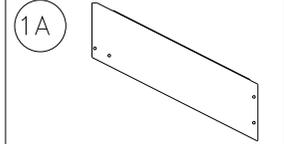
AUTHORIZED BY:

Joe Pritchett 02JUN08



DETAIL D1
1: 5

STEP TO DECK
ATTACHMENT DETAIL
TYP. 4 PLCS.
BOTH ENDS



DETAIL D2
1: 5

RAIL TO DECK
ATTACHMENT DETAIL
TYP. 3 PLCS.
BOTH SIDES

NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS



610MM (24") DECK TO DECK STEPS W/RAILS

200125474
KB200009D-S2
Sheet 2 of 2

AUTHORIZED BY:
Joe Fitchett 02JUN08

STEPS DECK/DECK 610 MM W/GUARDRAILS F/KB
200125538

STEPS DK/DK 610MM GRD.RL. KB (SMALL HOLES)
200200400

STEPS DECK/DECK 610 MM W/SFTY RAILS F/KB
200125540

STEPS DK/DK 610MM SFTY RL.KB (SMALL HOLES)
200200401

Item	Code	Description	Qty.
1A	200125147	STEPS DECK TO DECK 610 (TDV) KB (2002)	1
1B	200146264	STEPS DK-TO-DK 610 KB (TDV) SMALL HOLE	
2A	200125335	GUARDRAIL LFT. KB 24" DK/DK TAN	1
2B	200125375	SAFETY RAIL LFT. KB 24" DK/DK TAN	
3A	200125333	GUARDRAIL RGT. KB 24" DK/DK TAN	1
3B	200125376	SAFETY RAIL RGT. KB 24" DK/DK TAN	
9	200006754	HOODED RAIL CLAMP TAN F/KB	4

HDWR BAG F/KB DECK-TO-DECK STEPS

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

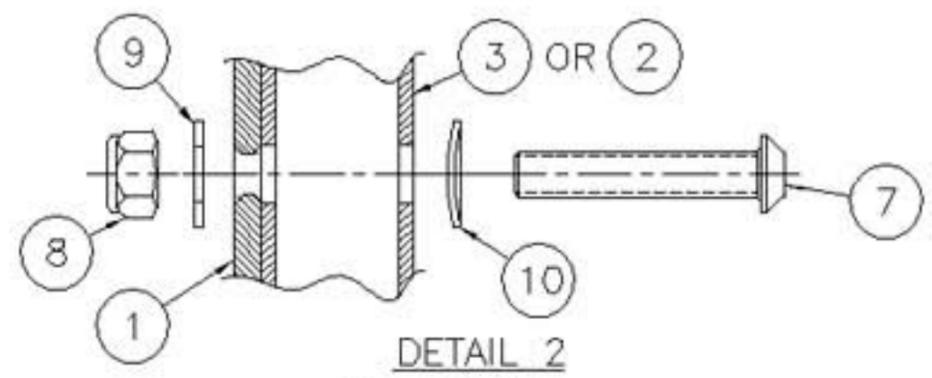
Application

- For use between two decks which are 610mm [24"] different in height.
- If the component includes guard rails and is predominantly used by 5-12 year olds, the upper deck must be 1220mm [48"] or less.
- If using guard rails and it will be predominantly used by 2-5 year olds, the upper deck must be 762mm [30"] or less.
- Safety Rails are acceptable in all applications.

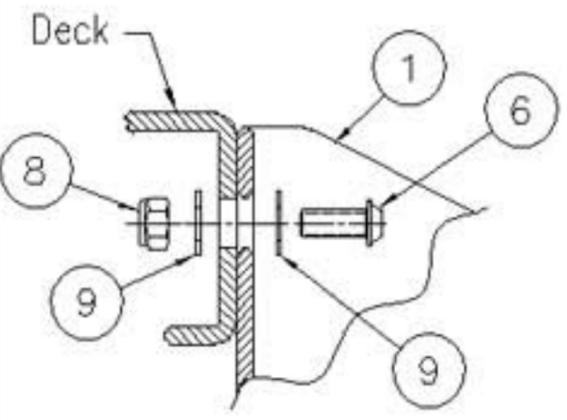
Installation Instructions

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.

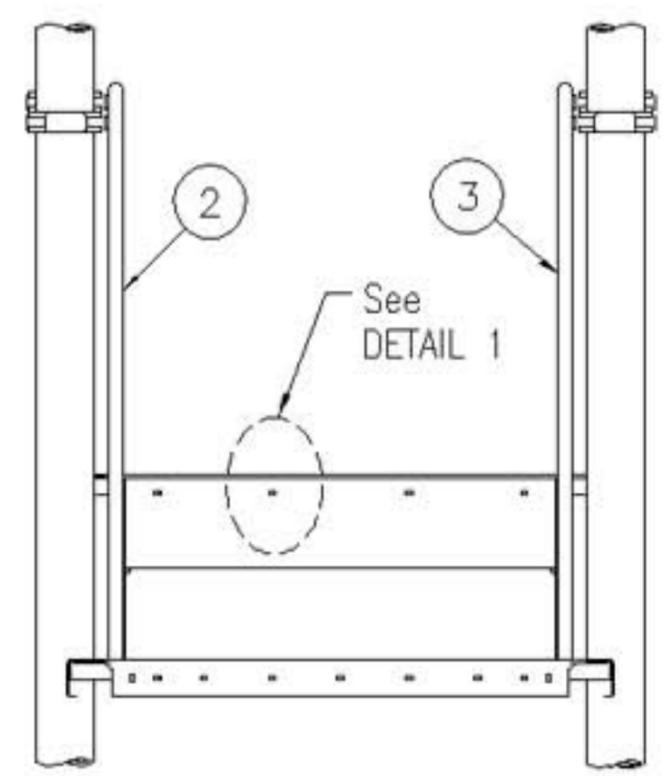
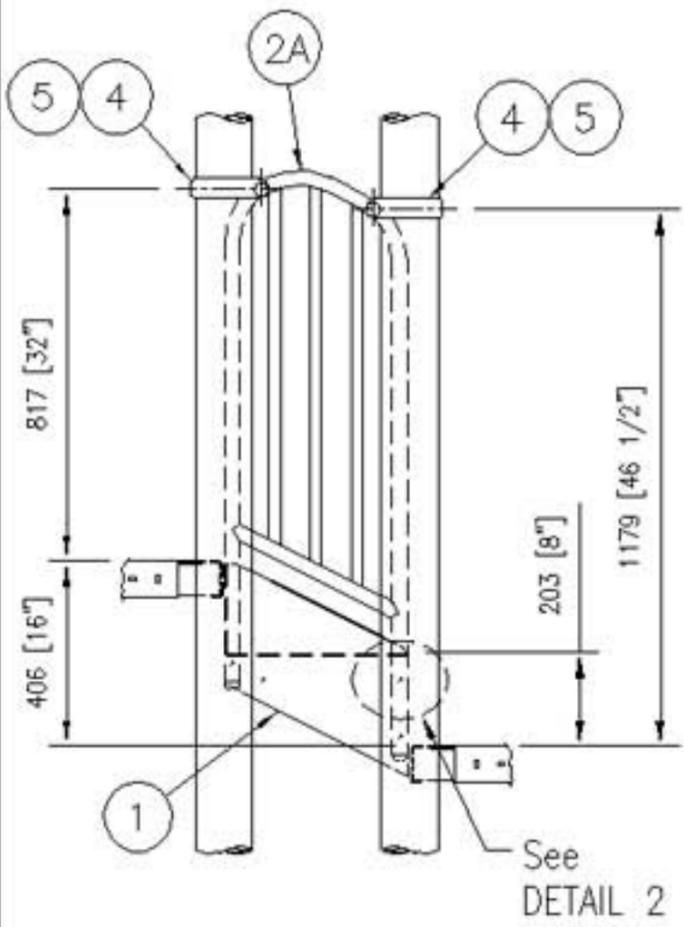
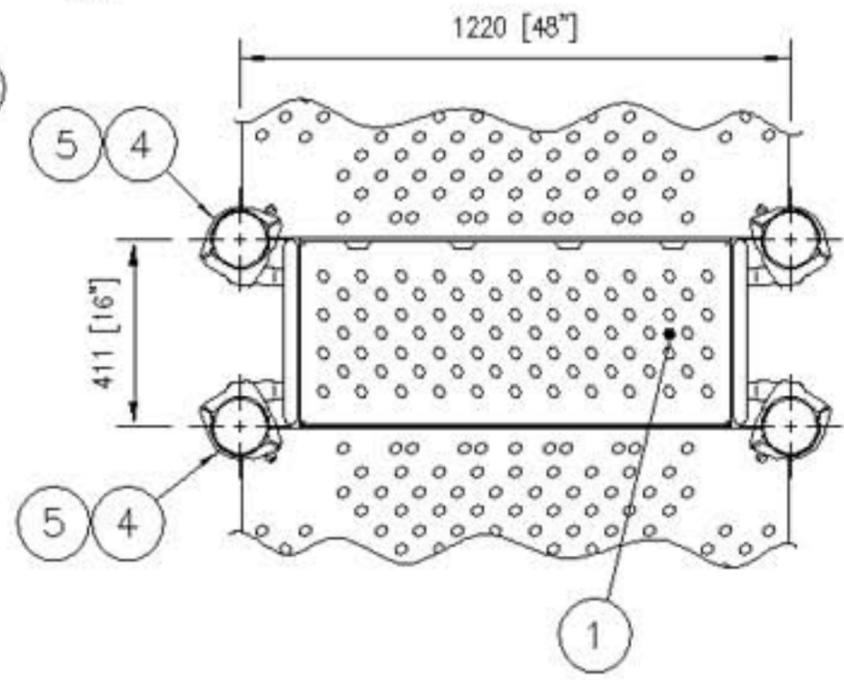
AUTHORIZED BY: 18MAR08
Eric L. Claudus



DETAIL 2
Typ 6 Places



DETAIL 1
Typ 8 Places



KB STEPS DK/DK 406MM W/SAFETY RAILS(LG) 200201306
KB STEPS DK/DK 406MM W/SFTY RL(SM.HOLE) 200201307

Item	Code	Description	Qty.
1A	-	STEPS DECK-TO-DECK 406 MM TDV -OR-	1
1B	-	STEPS DECK-TO-DECK 406 MM SM HOLE, TDV	1
2A	-	SAFETY RAIL LFT.KB 406 DK/DK.	1
3A	-	SAFETY RAIL RGT.KB 406 DK/DK.	1
4	-	HOODED RAIL CLAMP ASSEMBLY	4
5	200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	8

KB STEPS DK/DK 406MM W/GUARD RAILS 200201304
KB STEPS DK/DK 406MM W/GRD RL(SM.HOLE) 200201305

Item	Code	Description	Qty.
1A	-	STEPS DECK-TO-DECK 406 MM TDV -OR-	1
1B	-	STEPS DECK-TO-DECK 406 MM SM HOLE, TDV	1
2B	-	GUARD RAIL LFT.KB 406 DK/DK.	1
3B	-	GUARD RAIL RGT.KB 406 DK/DK.	1
4	-	HOODED RAIL CLAMP ASSEMBLY	4
5	200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	8

HDWR BAG F/KB 406MM DECK TO DECK STEPS
200041200

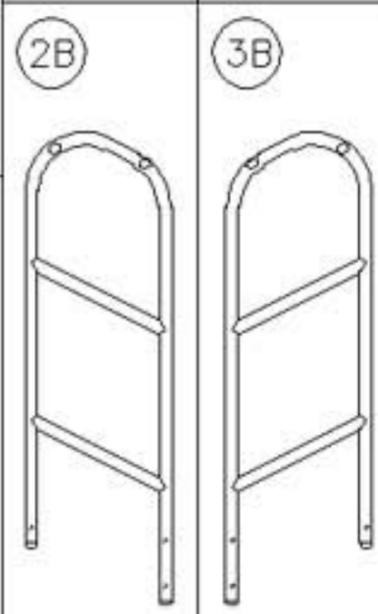
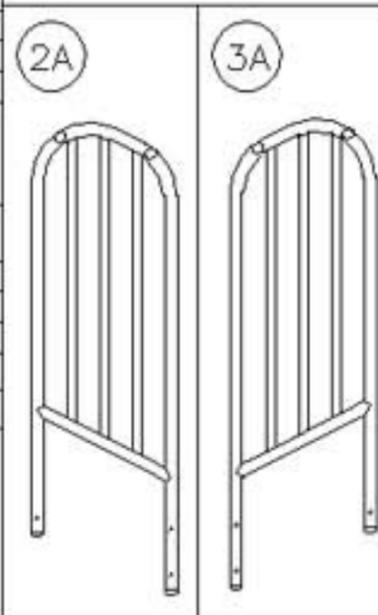
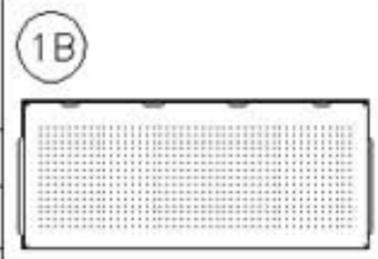
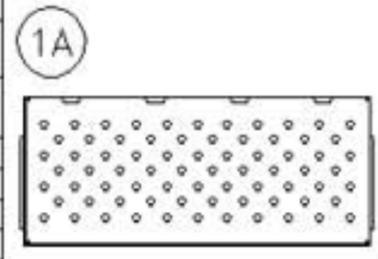
Item	Code	Description	Qty.
6	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	8
7	200002150	SCREW MACH BUTTONHEAD M10 X 1.5 X 55 MM	6
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	14
9	200002079	WASHER FLAT M11 23 X 12 X 1.6	22
10	200008483	WASHER BOWED M11 23.5 X 11.7 X 1.57 MM	6

Application

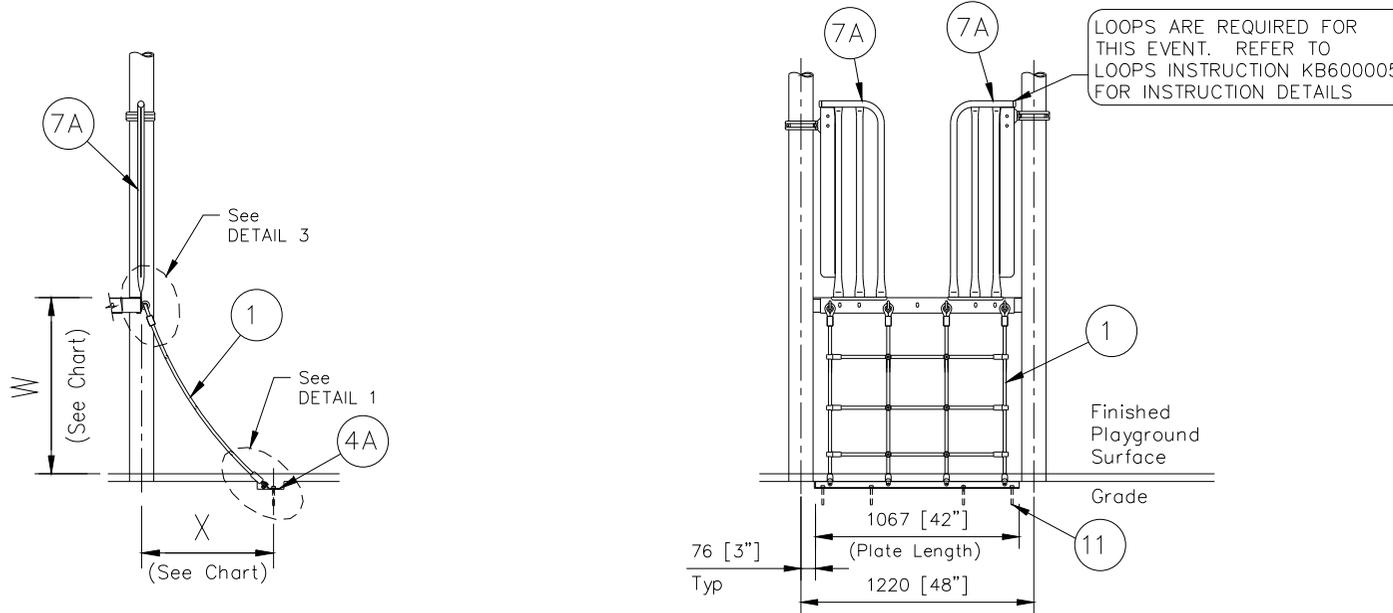
- For use between two decks which are 406mm [16"] different in height.
- If the component includes guard rails and is predominantly used by 5-12 year olds, the upper deck must be 1220mm [48"] or less.
- If using guard rails and it will be predominantly used by 2-5 year olds, the upper deck must be 762mm [30"] or less.
- Safety Rails are acceptable in all applications.

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.



Joe Pritchett



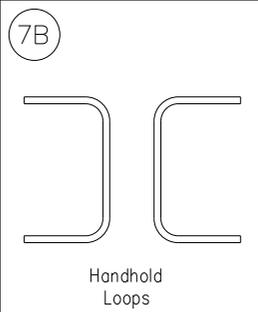
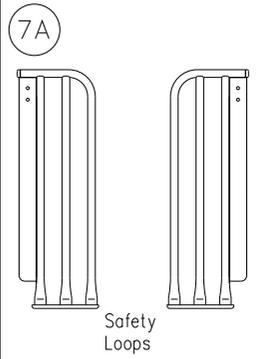
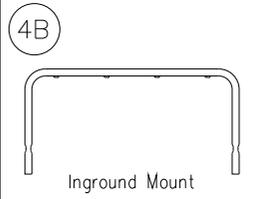
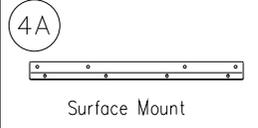
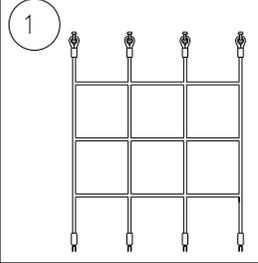
LOOPS ARE REQUIRED FOR THIS EVENT. REFER TO LOOPS INSTRUCTION KB600005 FOR INSTRUCTION DETAILS

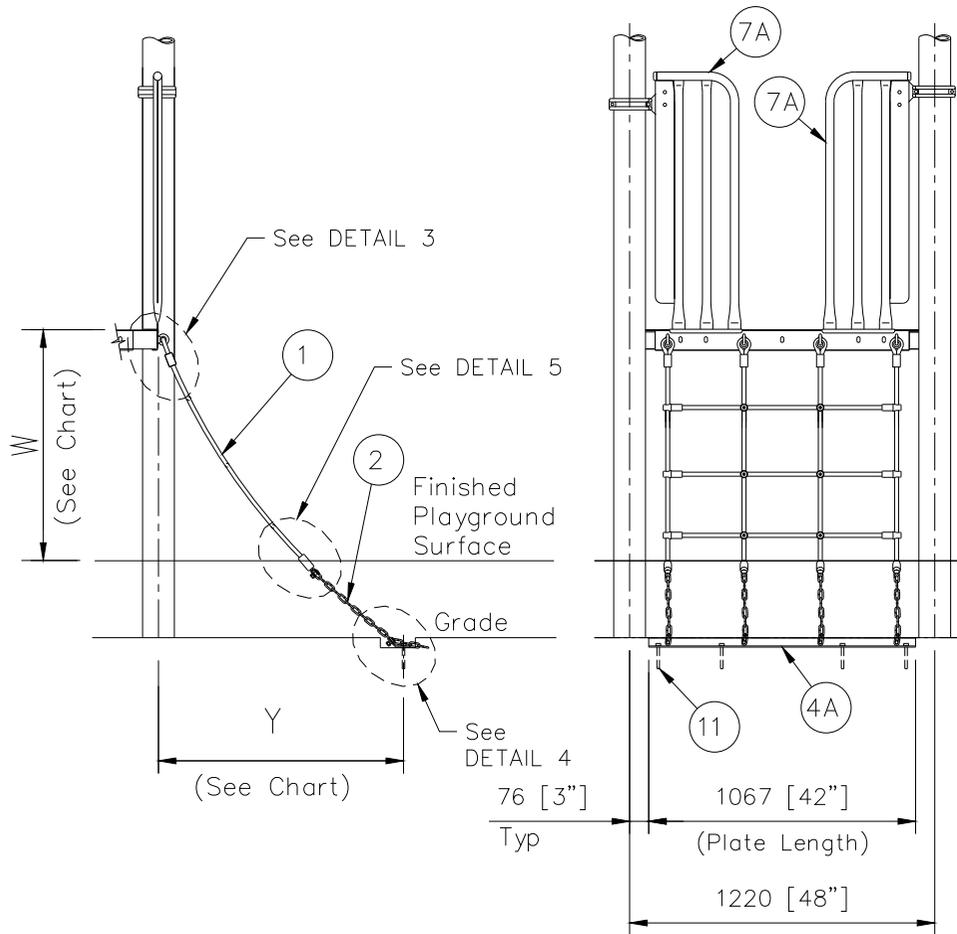
Surface Mount, 40mm [1 1/2"] Ground Cover

TABLE 1: FOOTING LOCATIONS

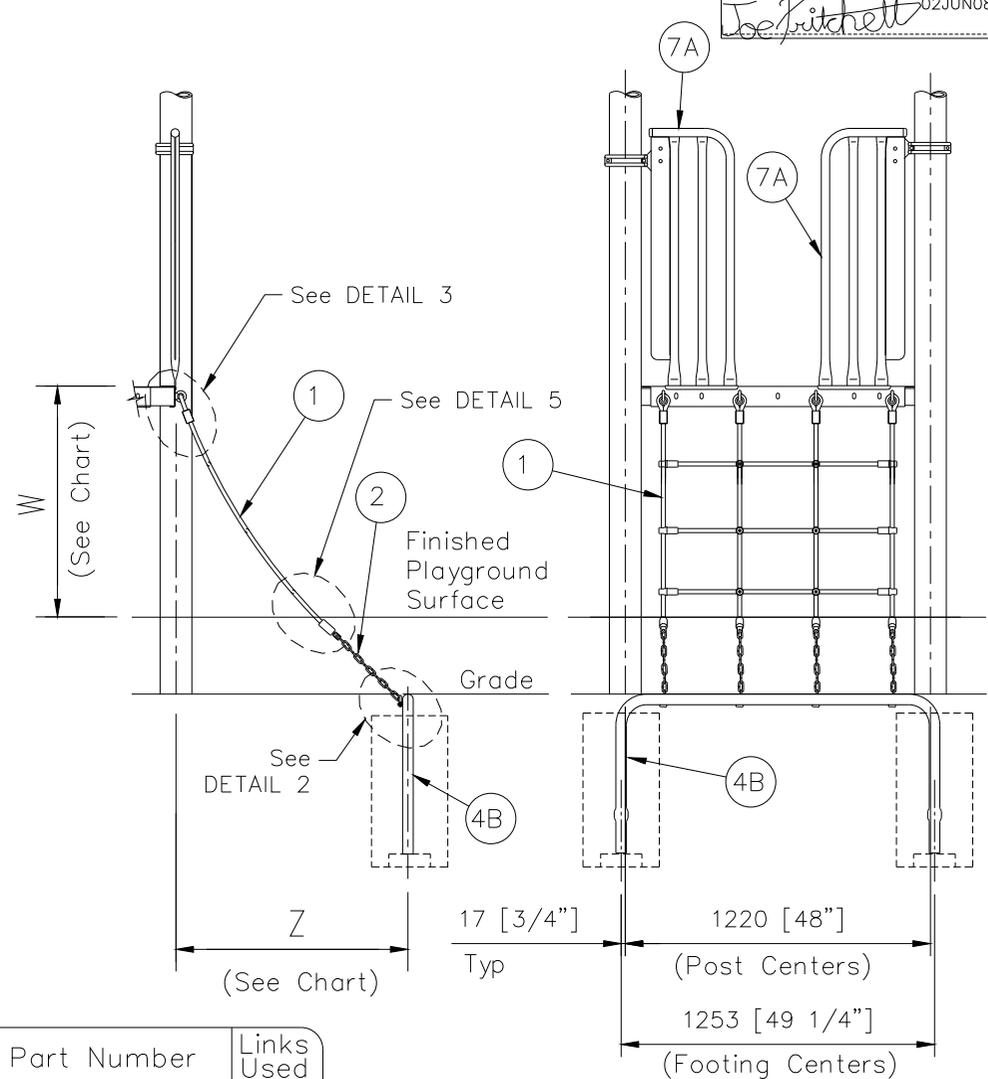
Deck Height W	Surface Mount X	Surface Mount Y (see Sheet 2)	Inground Mount Z (see Sheet 2)
915 [36"]	702 [27-5/8"]	976 [38-3/8"]	955 [37-3/5"]
1220 [48"]	1161 [45-1/2"]	1818 [71-1/2"]	1798 [70-3/4"]
1422 [56"]	858 [33-3/4"]	1344 [53"]	1327 [52-1/4"]
1625 [64"]	1303 [51-1/4"]	1756 [69-1/4"]	1740 [68-1/2"]
1830 [72"]	955 [37-1/2"]	1269 [50"]	1230 [48-1/2"]

NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS





Surface Mount, 305mm [12"] Ground Cover

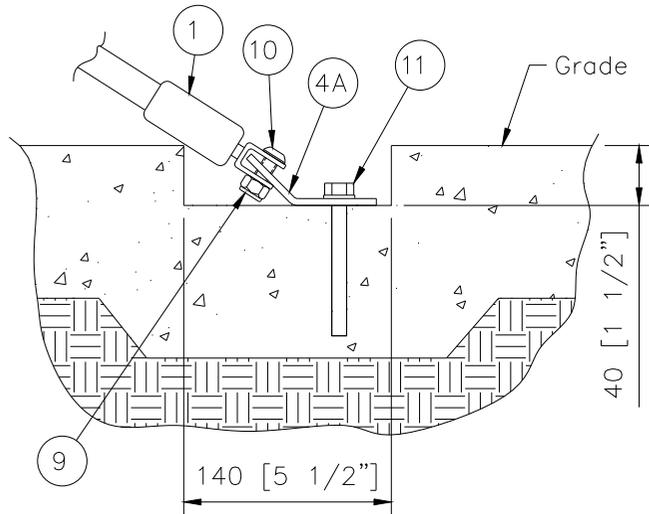


Inground Mount

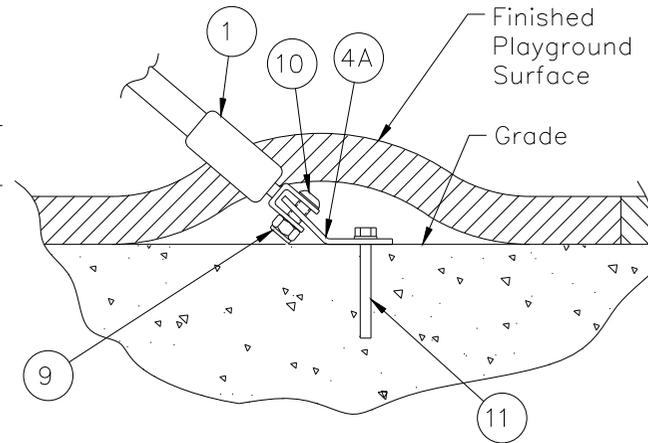
Deck Height W	Chain Part Number	Links Used
915 [36"]	200140295 (11 Links)	11
1220 [48"]	200140296 (21 Links)	21
1422 [56"]	200140296 (21 Links)	17
1625 [64"]	200140298 (16 Links)	16
1830 [72"]	200140298 (16 Links)	12

TABLE 2: CHAIN USAGE FOR 305mm [12"] GROUND COVER

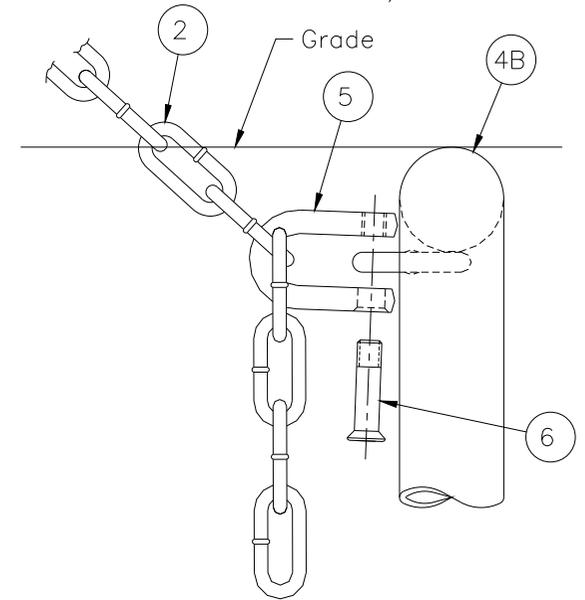
AUTHORIZED BY:
Joe Pritchett
02JUN08



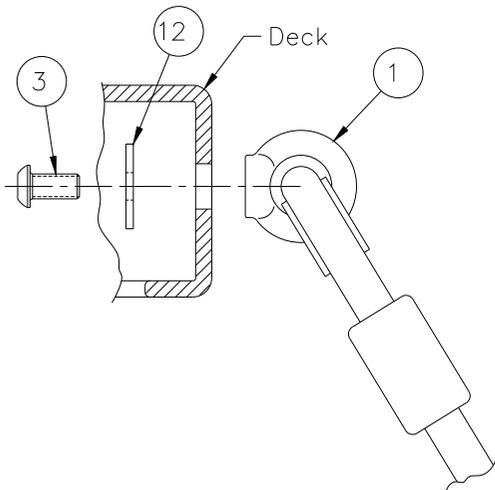
DETAIL 1 (OPTION A)
(Surface Mount-Surfacing)
Typ 4 Places



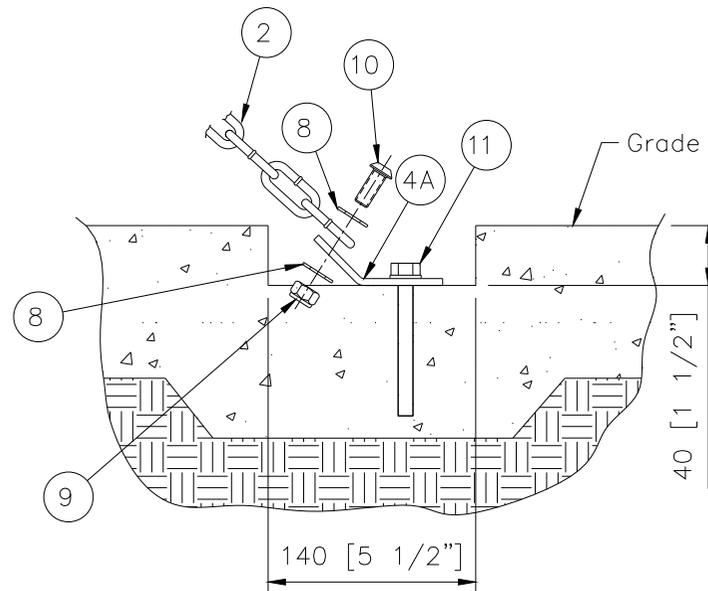
DETAIL 1 (OPTION B)
(Surface Mount-Surfacing)
Typ 4 Places



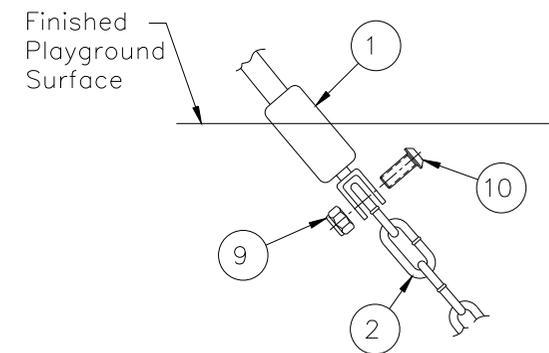
DETAIL 2
(Inground Mount)
Typ 4 Places



DETAIL 3
Typ 4 Places



DETAIL 4
(Surface Mount-Loose Fill)
Typ 4 Places



DETAIL 5
Typ 4 Places



CLIMBING NETS

200002640

KB300021D-S4

Sheet 4 of 4

CLIMBING NET 915mm [36"] RED/BLU W/SAFE LOOPS
200200020

CLIMBING NET 915mm [36"] TAN/GRN W/SAFE LOOPS
200200021

CLIMBING NET 1220mm [48"] RED/BLU W/SAFE LOOPS
200200024

CLIMBING NET 1220mm [48"] TAN/GRN W/SAFE LOOPS
200200025

CLIMBING NET 1625mm [64"] RED/BLU W/SAFE LOOPS
200200028

CLIMBING NET 1625mm [64"] TAN/GRN W/SAFE LOOPS
200200029

CLIMBING NET 915mm [36"] RED/BLU W/HAND LOOPS
200200022

CLIMBING NET 915mm [36"] TAN/GRN W/HAND LOOPS
200200023

CLIMBING NET 1220mm [48"] RED/BLU W/HAND LOOPS
200200026

CLIMBING NET 1220mm [48"] TAN/GRN W/HAND LOOPS
200200027

Application

Cannot be used as sole access

AUTHORIZED BY: 04JUN08
Joe Pritchett

Surface mount version for deck heights between 915mm [36"] and 1829mm [72"]

Inground mount version for deck heights between 915mm [36"] and 1829mm [72"]

Never install a climber without loops

ASTM requires all hardware to be below ground surfacing

Any installation over 1422mm [56"] must have safety loops

Installation Instructions

1. Prepare footings. Consult TABLE 1 for footing locations for your particular deck height.

2. Install Loops. See Hand/Safety loops instructions KB600005 for details.

3. Attach the bottom of the net to the anchoring device as shown in DETAIL 1 (Option A or B) for surface mount, and DETAIL 2 for inground mount. Installations requiring 305mm [12"] ground cover will require the use of a chain (see DETAILS 4 & 5). Consult TABLE 2 for chain usage. Some deck heights will not use 4 links of the chain supplied (see DETAIL 2).

4. Attach the top of the net to the deck edge as shown in DETAIL 3.

5. For surface mount, attach anchor plate to concrete using anchor bolts; for inground mount install tube using the standard inground footing (refer to footing instruction in front of manual). Consult the chart at left for footing locations for your particular deck height. Make sure the anchoring device is installed below grade (Option A), will be covered with ground surfacing (Option B), or that the tube is completely covered with surfacing.

6. Install resilient ground surfacing around climber. Surfacing shall extend in all directions at least 1830mm [72"] from the point at which the climber enters the surfacing.

Item	Code	Description	*Qty.	Item	Code	Description	*Qty.
1	-	NET F/ROPE CLIMBER	1	1	-	NET F/ROPE CLIMBER	1
2	-	CHAIN F/ROPE CLIMBER (40mm GROUND COVER ONLY)	4	2	-	CHAIN F/ROPE CLIMBER (40mm GROUND COVER ONLY)	4
3	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM	4	3	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM	4
4A	200009458	PLATE GROUND F/KK CHAIN NET 40MM	1	4A	200009458	PLATE GROUND F/KK CHAIN NET 40MM	1
4B	200001714**	BAR GROUND BRN F/KB CHAIN NET CLIMBER		4B	200001714**	BAR GROUND BRN F/KB CHAIN NET CLIMBER	
5	200015170**	SHACKLE "D" STYLE 300 S.S.	4	5	200015170**	SHACKLE "D" STYLE 300 S.S.	4
6	200016225**	BOLT M10 X 1.5 300 SS 6-LOBE F/D SHACKLE	4	6	200016225**	BOLT M10 X 1.5 300 SS 6-LOBE F/D SHACKLE	4
7A	-	SAFETY LOOP ASSY F/KB WITH 2 WING CLAMPS	1	7B	-	HANDHOLD LOOP ASSY F/KB WITH 4 RAIL CLAMPS	1
9	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	2	9	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	2
10	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	2	10	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	2
11	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100 MM	4	11	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100 MM	4

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

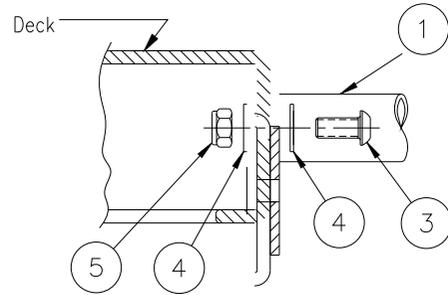
HDWR BAG F/KB ARCH SAFETY RAIL/MESH PNL
200007712

Item	Code	Description	*Qty.	Item	Code	Description	*Qty.
8	200002079	WASHER FLAT M11 23 O.D. X 12 I.D. X 1.6 MM	8	8	200002079	WASHER FLAT M11 23 O.D. X 12 I.D. X 1.6 MM	8
9	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	6	9	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	6
10	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	6	10	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	6
12	200002096	WASHER FLAT M10 34 OD x 11 ID x 3 MM THK	4	12	200002096	WASHER FLAT M10 34 OD x 11 ID x 3 MM THK	4

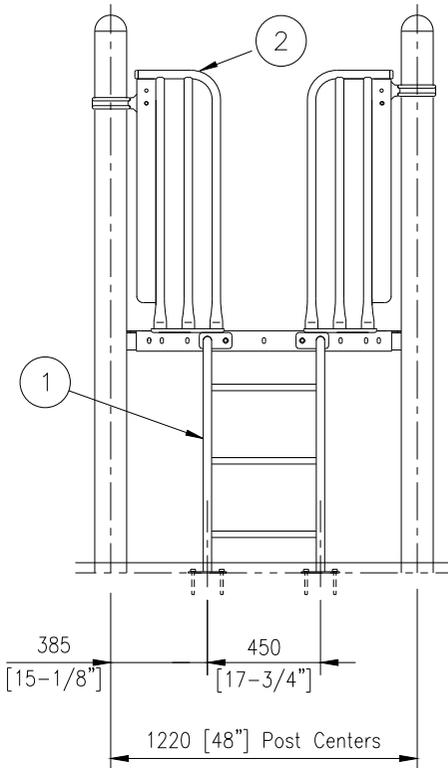
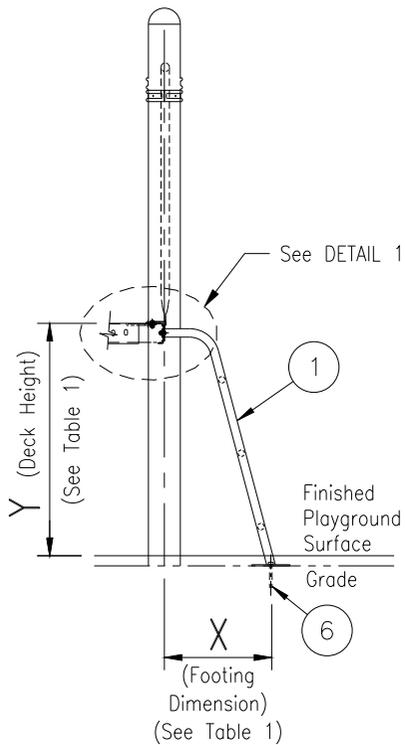
* QUANTITIES WILL VARY BASED ON GROUND COVER OPTION
** INGROUND MOUNT ONLY

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



- 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

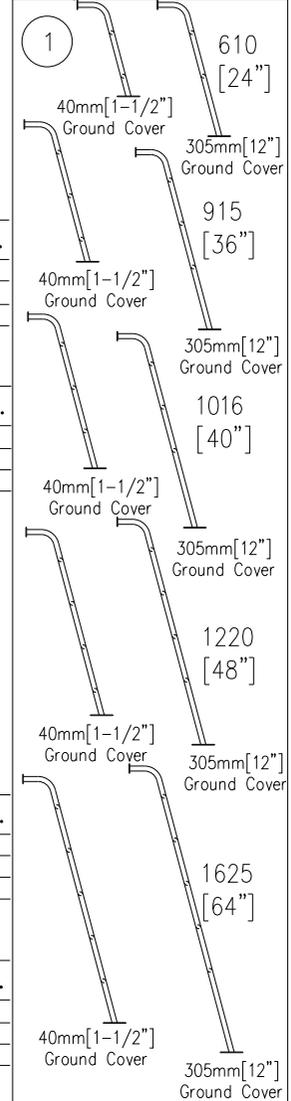
HWDR BAG F/KB ARCH SAFETY RAIL/MESH PNL
200007712

Item	Code	Description	Qty.
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	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

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

AUTHORIZED BY: 04JUN08
Joe Fitchett



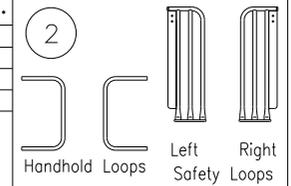
NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

Installation Instructions

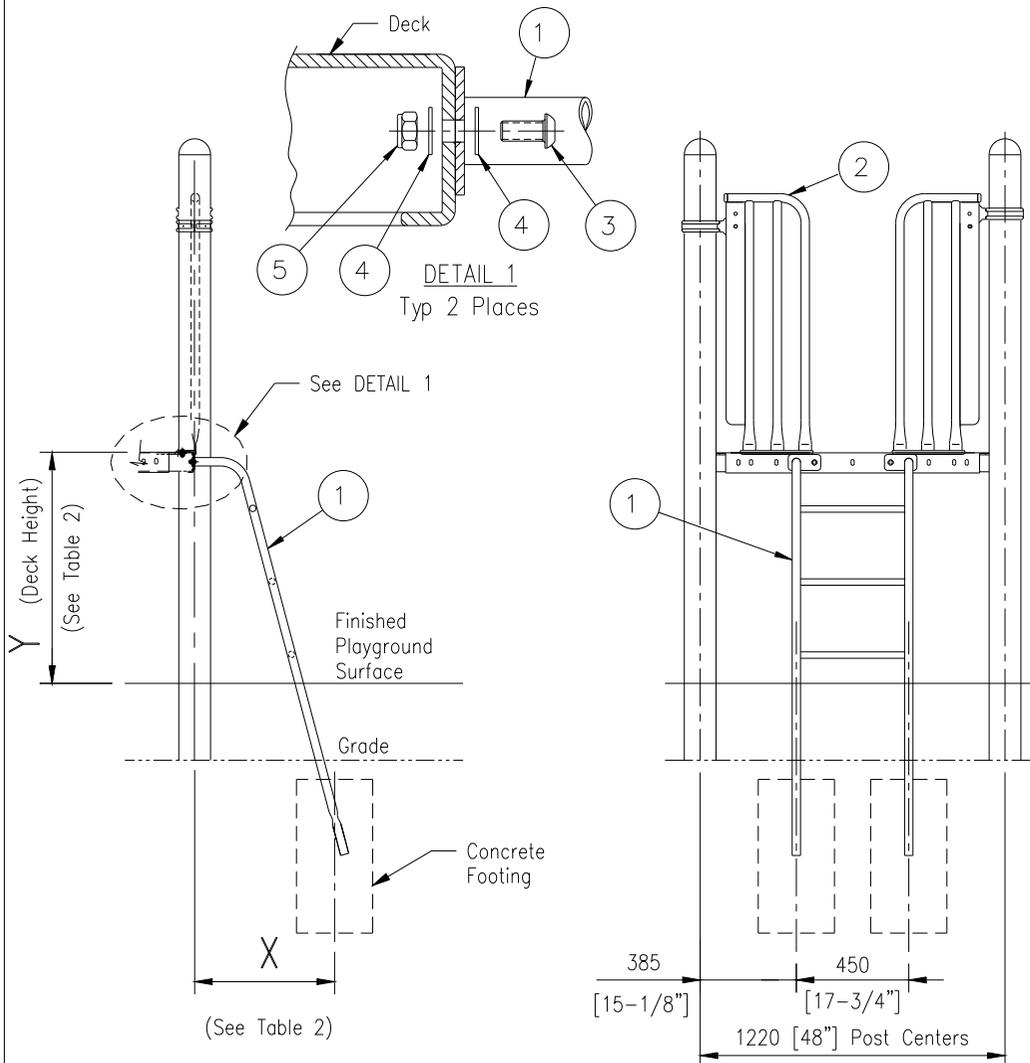
1. Prepare footings.
2. Install loops. See Hand/Safety Loops Instruction for details.
3. Attach rung ladder to deck as shown in DETAIL 1.
4. Tighten all hardware and install clamp drive pins.
5. Complete footings and install resilient surfacing.

Application

- Cannot be used as sole access to equipment.



AUTHORIZED BY: 05JUN08
Joe Pritchett



NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

TABLE 2

Inground Mount		Footing Dimensions	
"Y"	"X"	"Y"	"X"
Deck Height	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

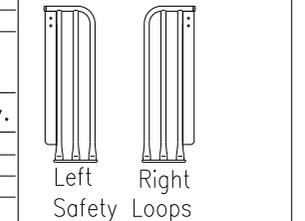
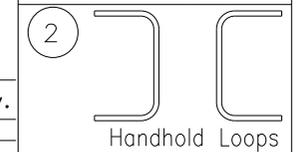
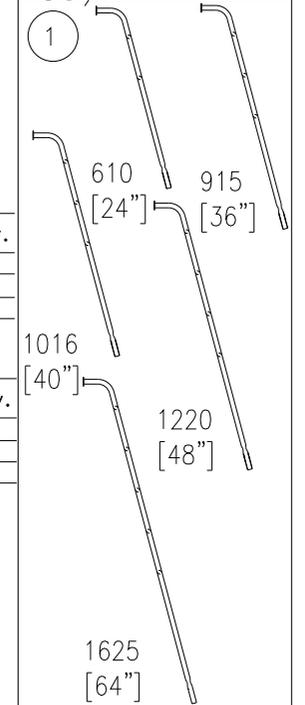
Item	Code	Description	Qty.
1	-	RUNG LADDER	1
2	-	SAFETY LOOP ASSY F/KB W/2 WING CLAMPS	1
6	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100MM	4

HWDR BAG F/KB 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

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



KB Trail Climber

IMPORTANT! Prior to installation of any components refer to the front of the **Manufacturer's Assembly** manual and applicable safety guidelines and/or standards. The *Manufacturer's Assembly Manual* will provide important tips pertaining to **site requirements, footings, hardware** and other necessary information **vital to the success of your installation.**

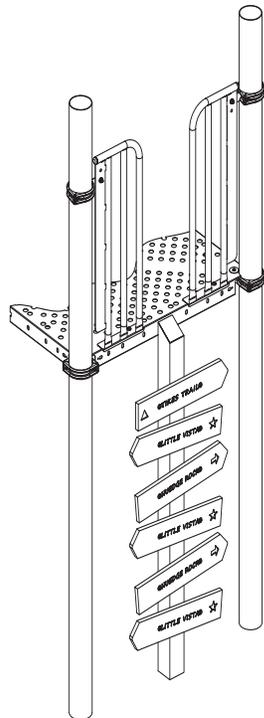
Models included in this installation guide:

<u>MODEL</u>	<u>DESCRIPTION</u>	<u>PAGE</u>
200203460	KB Trail Climber 72"	2, 6
200203459	KB Trail Climber 64"	2, 6
200203458	KB Trail Climber 56"	3, 6
200203457	KB Trail Climber 48"	3, 6
200203537	KB Trail Climber 72" CSA	4, 6
200203536	KB Trail Climber 64" CSA	4, 6
200203535	KB Trail Climber 56" CSA	5, 6
200203534	KB Trail Climber 48" CSA	5, 6

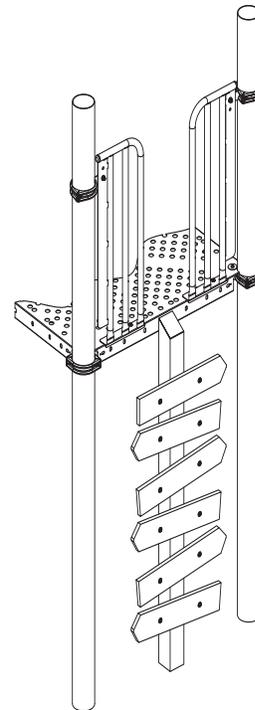
Note:

- Deck system and posts are not included in this assembly.
- An (*) by part numbers (CODE) indicate: *Color Code Required.*

KB Trail Climber - w/wording



KB Trail Climber CSA - w/out wording



Note: Deck height varies per model.

KB Trail Climber

<i>200203460 KB TRAIL CLIMBER 72"</i>		
CODE	DESCRIPTION	QTY
902878DBW	TRAIL CLIMBER POST ASSY, 72" SM	1
902877DBW	TRAIL CLIMBER POST ASSY, 72" 305SM	
902879DBW	TRAIL CLIMBER POST ASSY, 72" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
903054	TRAIL CLIMBER SIGN, TRIANGLE	1
903055	TRAIL CLIMBER SIGN, STAR	3
903053	TRAIL CLIMBER SIGN, ARROW	2
925165	WOOD SIGN KIT F/72" TRAIL CLIMBER	1
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

<i>200203459 KB TRAIL CLIMBER 64"</i>		
CODE	DESCRIPTION	QTY
902881DBW	TRAIL CLIMBER POST ASSY, 64" SM	1
902880DBW	TRAIL CLIMBER POST ASSY, 64" 305SM	
902882DBW	TRAIL CLIMBER POST ASSY, 64" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
903054	TRAIL CLIMBER SIGN, TRIANGLE	1
903055	TRAIL CLIMBER SIGN, STAR	2
903053	TRAIL CLIMBER SIGN, ARROW	2
925614	WOOD SIGN KIT F/64"/56"TRAIL CLIMBER	1
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

KB Trail Climber

<i>200203458 KB TRAIL CLIMBER 56"</i>		
CODE	DESCRIPTION	QTY
902884DBW	TRAIL CLIMBER POST ASSY, 56" SM	1
902883DBW	TRAIL CLIMBER POST ASSY, 56" 305SM	
902885DBW	TRAIL CLIMBER POST ASSY, 56" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
903054	TRAIL CLIMBER SIGN, TRIANGLE	1
903055	TRAIL CLIMBER SIGN, STAR	2
903053	TRAIL CLIMBER SIGN, ARROW	2
925164	WOOD SIGN KIT F/64"/56"TRAIL CLIMBER	1
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

<i>200203457 KB TRAIL CLIMBER 48"</i>		
CODE	DESCRIPTION	QTY
902887DBW	TRAIL CLIMBER POST ASSY, 56" SM	1
902886DBW	TRAIL CLIMBER POST ASSY, 56" 305SM	
902888DBW	TRAIL CLIMBER POST ASSY, 56" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
903054	TRAIL CLIMBER SIGN, TRIANGLE	1
903055	TRAIL CLIMBER SIGN, STAR	2
903053	TRAIL CLIMBER SIGN, ARROW	1
925163	WOOD SIGN KIT F/48" TRAIL CLIMBER	1
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

KB Trail Climber

KB300442

KB Trail Climber

<i>200203537 KB TRAIL CLIMBER 72" CSA</i>		
CODE	DESCRIPTION	QTY
902878DBW	TRAIL CLIMBER POST ASSY, 72" SM	1
902877DBW	TRAIL CLIMBER POST ASSY, 72" 305SM	
902879DBW	TRAIL CLIMBER POST ASSY, 72" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
925159	TRAIL CLIMBER SIGN, W/O TEXT	6
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

<i>200203536 KB TRAIL CLIMBER 64" CSA</i>		
CODE	DESCRIPTION	QTY
902881DBW	TRAIL CLIMBER POST ASSY, 64" SM	1
902880DBW	TRAIL CLIMBER POST ASSY, 64" 305SM	
902882DBW	TRAIL CLIMBER POST ASSY, 64" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
925159	TRAIL CLIMBER SIGN, W/O TEXT	5
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

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KB Trail Climber

<i>200203535 KB TRAIL CLIMBER 56" CSA</i>		
CODE	DESCRIPTION	QTY
902884DBW	TRAIL CLIMBER POST ASSY, 64" SM	1
902883DBW	TRAIL CLIMBER POST ASSY, 64" 305SM	
902885DBW	TRAIL CLIMBER POST ASSY, 64" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
925159	TRAIL CLIMBER SIGN, W/O TEXT	5
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

<i>200203534 KB TRAIL CLIMBER 48" CSA</i>		
CODE	DESCRIPTION	QTY
902887DBW	TRAIL CLIMBER POST ASSY, 64" SM	1
902886DBW	TRAIL CLIMBER POST ASSY, 64" 305SM	
902888DBW	TRAIL CLIMBER POST ASSY, 64" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
925159	TRAIL CLIMBER SIGN, W/O TEXT	4
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

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KB Trail Climber

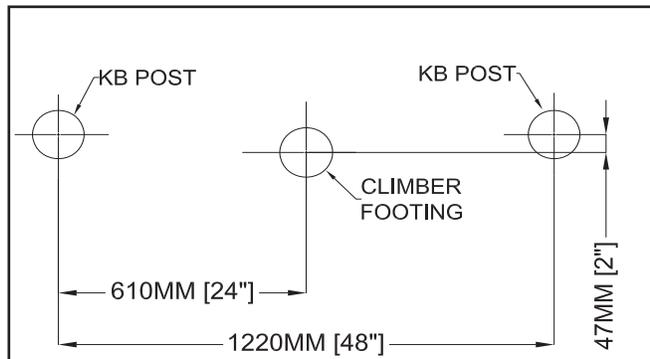
KB300442

KB Trail Climber

Note: Hardware packages are used for all eight (8) KB Trail Climbers w/words and w/o words.

HRDW PKG F/2SETS O/CLAMPS S1/1 HW2CLMPSET-1		
CODE	DESCRIPTION	QTY
200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	4
200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	4
200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	4
HRDW PKG KB TRAIL CLIMBER S1/2 HW906362-1		
CODE	DESCRIPTION	QTY
200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	6
200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM	1
200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	6
200002079	WASHER FLAT M11 23 X 12 X 1.6MM	9
200002096	WASHER FLAT M10 34 OD X 11 ID X 3MM SS	4
HRDW PKG KB TRAIL CLIMBER L2/2 HW906362-2		
CODE	DESCRIPTION	QTY
104286	BOLT 3/8-16 X 1 BHCS 6 LOBE 18-8 SS	12
110162	NUT 3/8-16 X 1 BARREL LENGTH, BUTTON HEAD	12
117005	WASHER 3/8 X 1 O.D. FLAT 18-8 SS	12
104480	BIT 6 LOBE T-45 FOR 3/8 BOLTS	1
104481	BIT 6 LOBE T-55 FOR 1/2 BOLTS	1

Footing Layout - for both KB Trail Climber w/words and w/o words.



KB Trail Climber

STEP 1 DECK AND POST FOOTINGS

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

1b. Deck Height Options:

- 1830MM [72"]
- 1625MM [64"]
- 1422MM [56"]
- 1220MM [48"]

Note: Deck Height Options are the same for KB Trail Climber CSA.

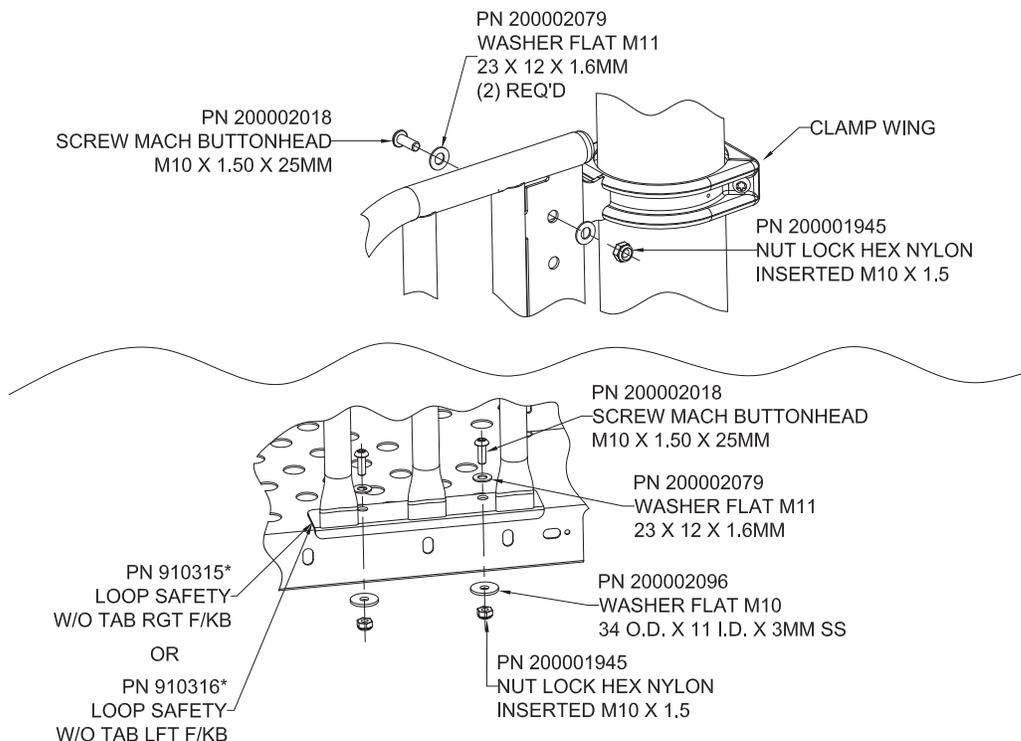
STEP 2 ASSEMBLE WING CLAMPS

2a. *Loosely* assemble wing clamps on posts per clamp installation details in the installation manual .

STEP 3 ATTACH SAFETY LOOPS TO DECK

3a. *Loosely* attach safety loops to deck and to wing clamps/post as shown below.

3b. Install wing clamp tabs on deck side of safety loop.



KB Trail Climber

KB300442

KB Trail Climber

STEP 4 ATTACH BOARDS WITH INSERTS

4a. Attach boards with inserts to the climber post as shown.

Note: See Figures 1, 2, 3 and 4 for surface mount and inground climber posts.

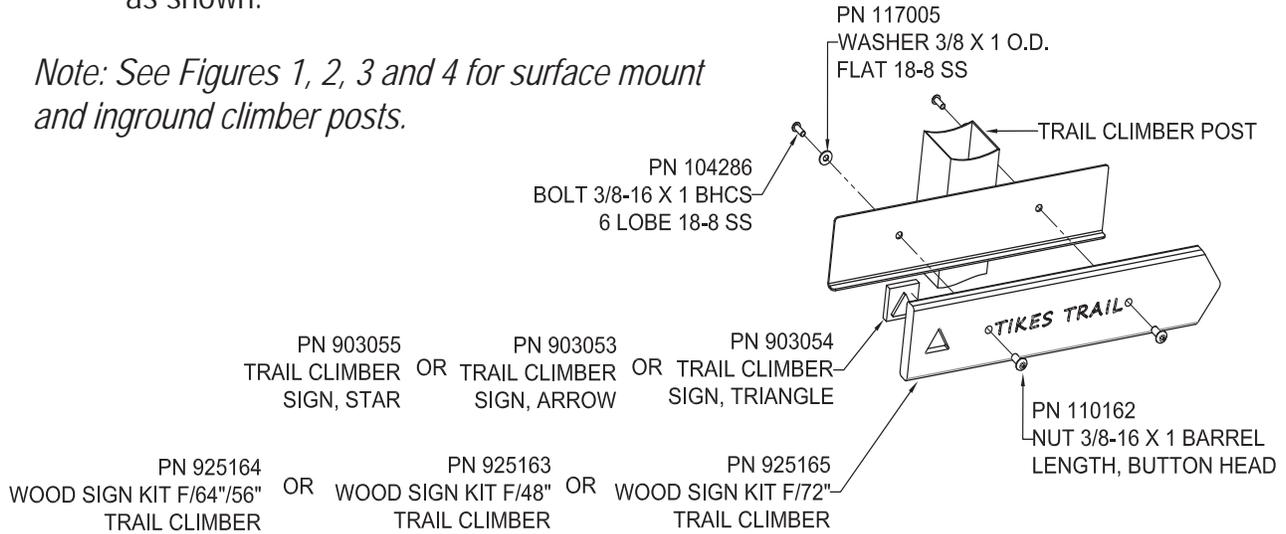


Figure 1. 1830MM [72"]

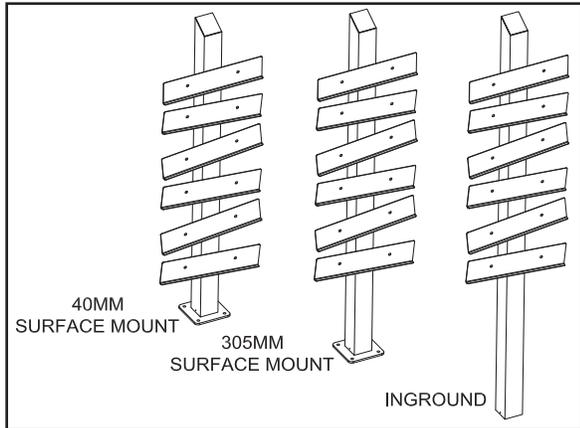


Figure 2. 1625MM [64"]

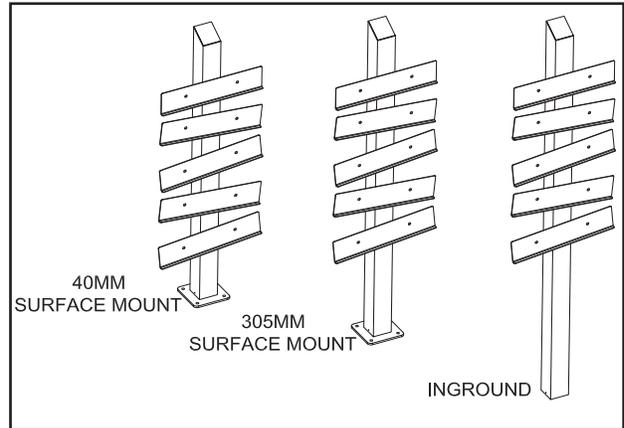


Figure 3. 1422MM [56"]

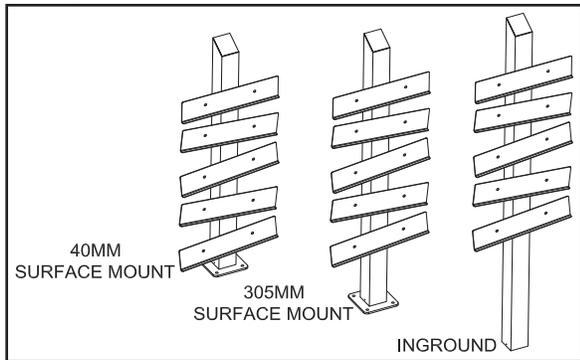
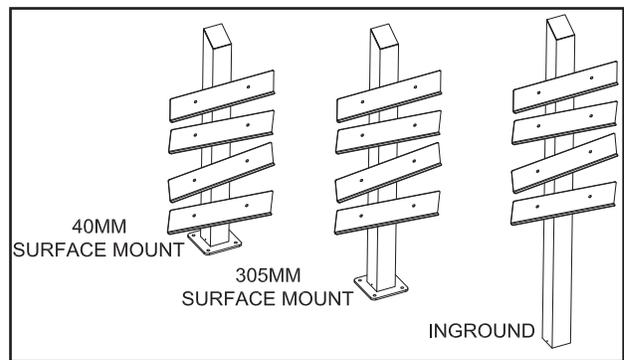


Figure 4. 1220MM [48"]



KB Trail Climber

STEP 4 ATTACH BOARDS WITH INSERTS cont.

4b. Follow the insert locations, as shown below, for each climber post height.

Note: See Figures 5, 6, 7 and 8 for insert locations.

Figure 5. 1830MM [72"]

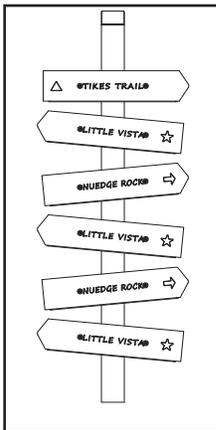


Figure 6. 1625MM [64"]

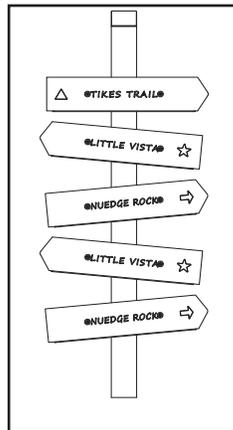


Figure 7. 1422MM [56"]

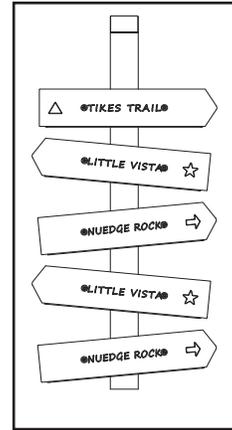
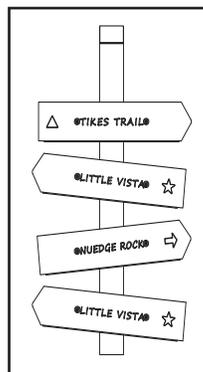


Figure 8. 1220MM [48"]



KB Trail Climber

STEP 5 ATTACH BOARDS W/OUT INSERTS/WORDING FOR CSA MODELS

5a. Attach boards to the climber post as shown below.

Note: See Figures 9, 10, 11 and 12 for board placement. Refer to Figures 1, 2, 3 and 4 for surface mount and inground climber posts.

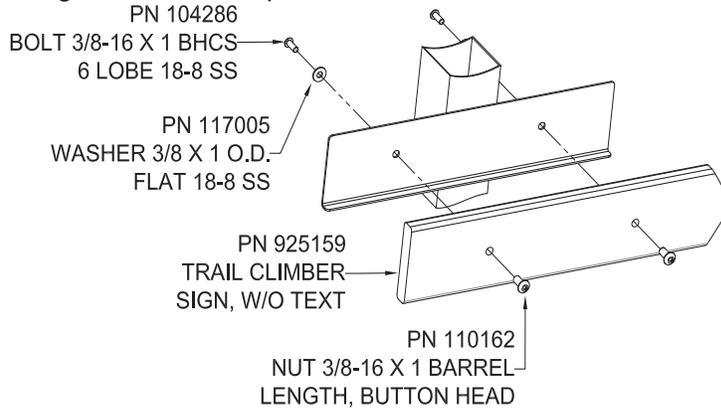


Figure 9. 1830MM [72"]

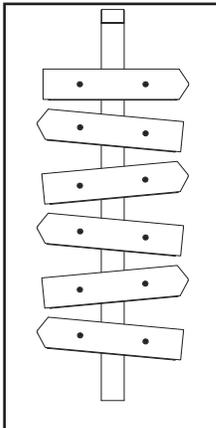


Figure 10. 1625MM [64"]

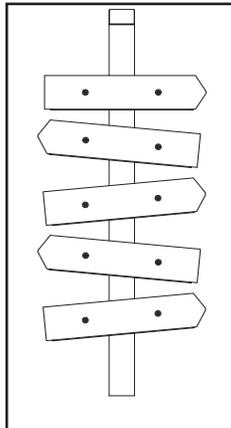


Figure 11. 1422MM [56"]

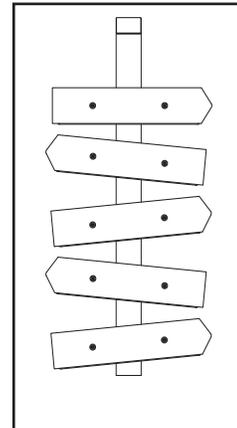
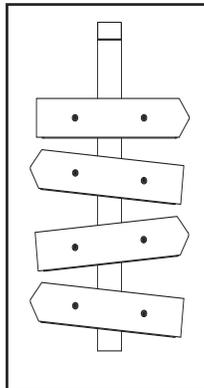


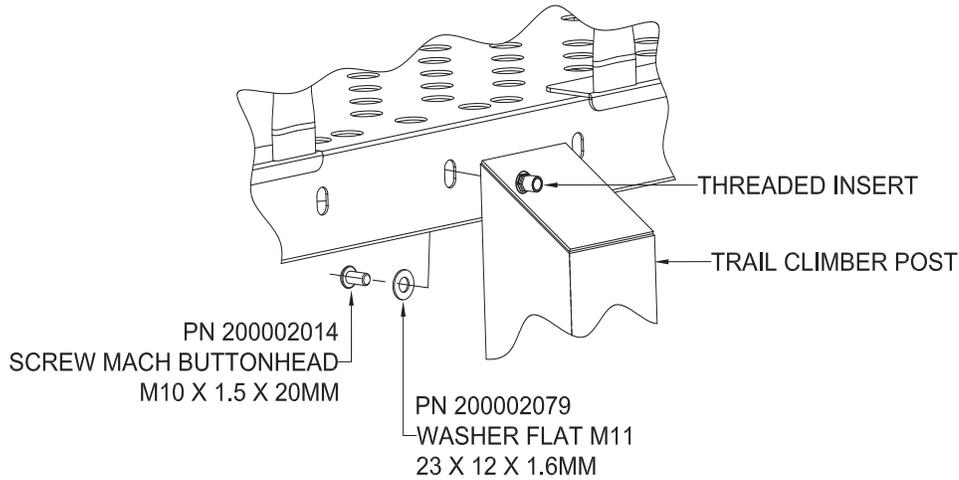
Figure 12. 1220MM [48"]



KB Trail Climber

STEP 6 ATTACH POST CLIMBER TO DECK

6a. Attach the post climber to the deck face as shown below.



6b. Tighten all hardware and install clamp drive pins.

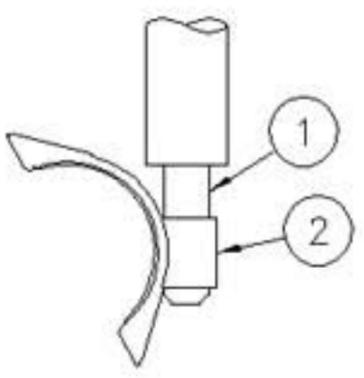
FINAL STEP

Proceed with *Final Assembly installation*.

LADDER RING CHALLENGE F/KB 2440 [96"]
200034344

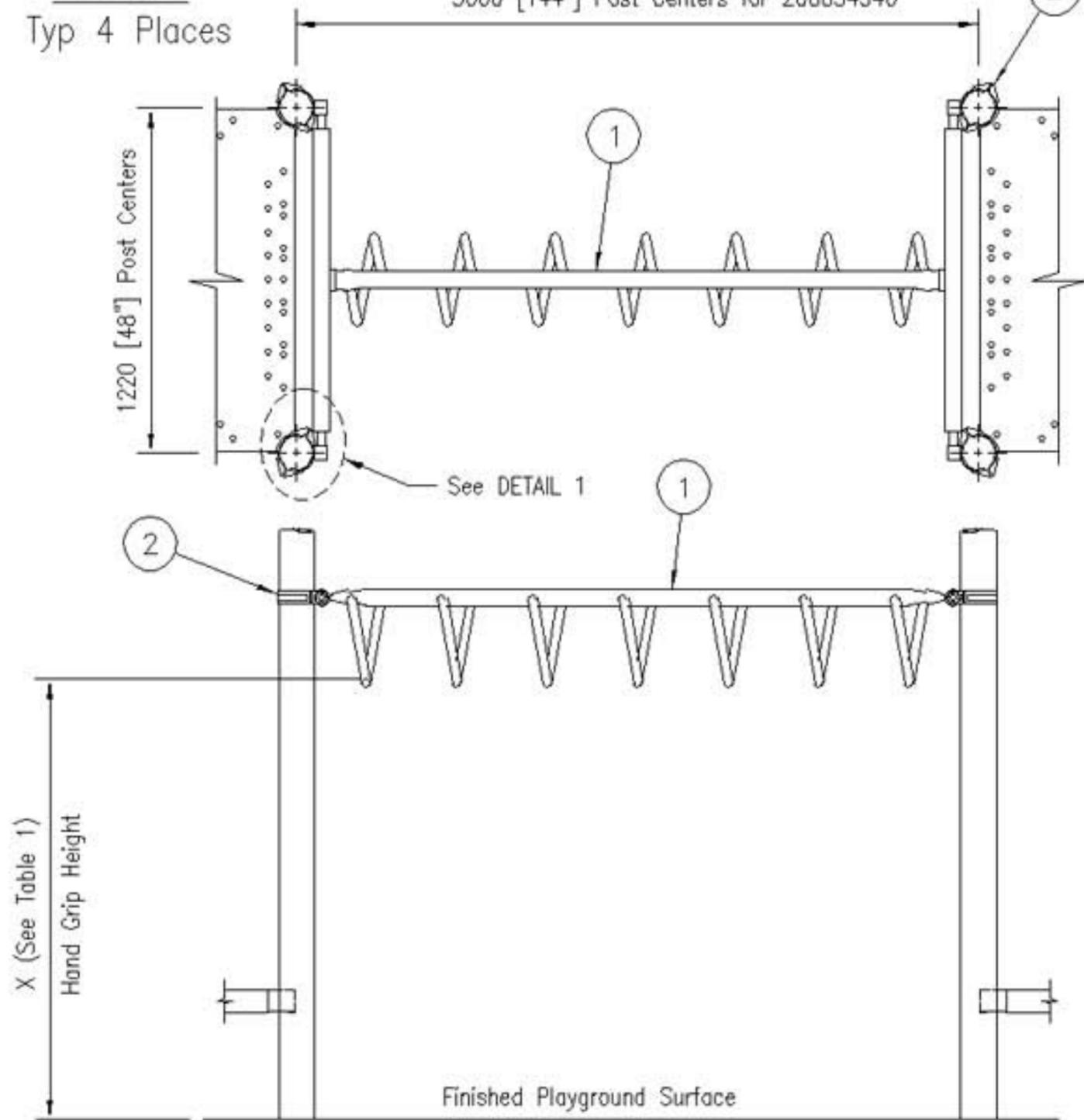
LADDER RING CHALLENGE F/KB 3660 [144"]
200034346

AUTHORIZED BY:
Chris M. [Signature] 20JUN07



DETAIL 1
Typ 4 Places

2440 [96"] Post Centers for 200034344
3660 [144"] Post Centers for 200034346



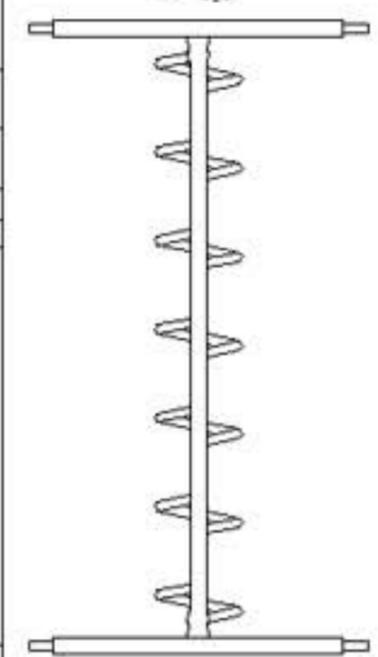
2440mm Ring Challenge Ladder Shown

Item	Code	Description	Qty.
1A	-	WELDED RING TREK F/KB 2440	1
1B	-	WELDED RING TREK F/KB 3660	1
2	-	RAIL CLAMP - W/WEDGE/30 DEG. ATTACH.	4

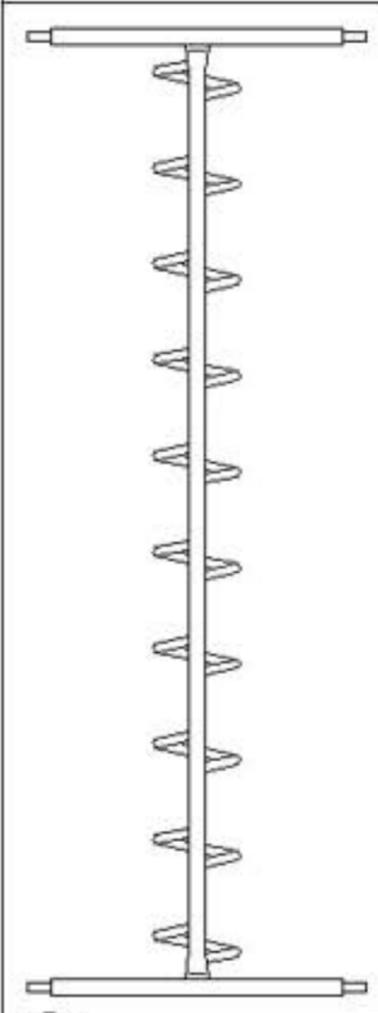
Application
- For ages 2-5 or 5-12.

Installation Instructions

1. Prepare footings.
2. Install posts.
3. Slide four wedge clamps onto the Challenge Ladder stubs (Refer to Detail 1).
4. Position Challenge Ladder at proper height and attach wedge clamps to posts (refer to front of manual for clamp installation detail).
5. Tighten all hardware and install clamp drive pins.
6. Complete footings and install resilient surfacing.



1A

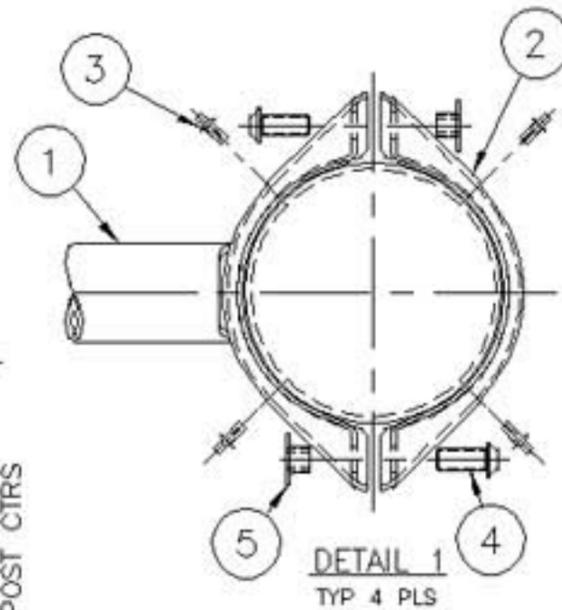
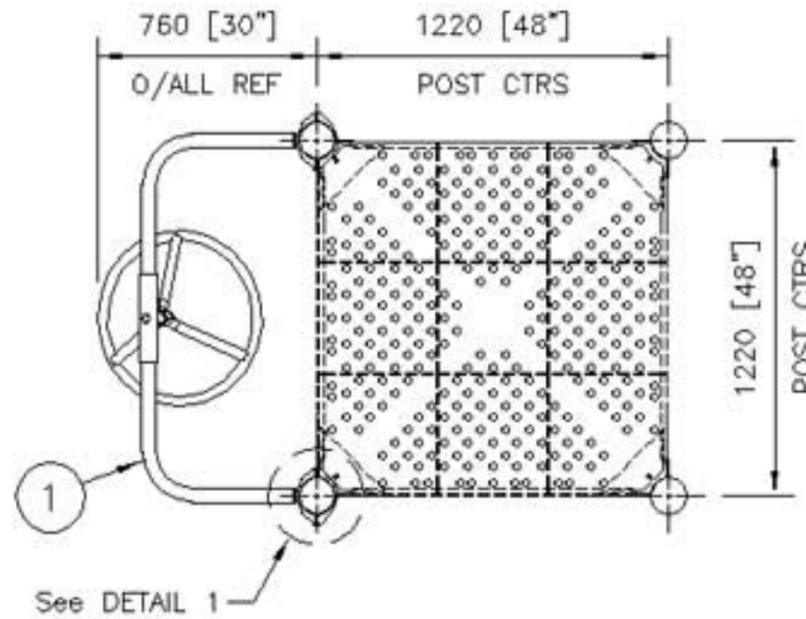


1B

TABLE 1

Age Group	X (Hand Grip Height)
2-5 Years	1524mm [60"]
5-12 Years	1981mm [78"]

AUTHORIZED BY:
Eric L. Cloudus 21 OCT 09



SINGLE FUNWHEEL 200202270

Item	Code	Description	Qty.
1	-	ASSY SGL. FUNWHEEL F/KB	1
2	-	CLAMP HALF W/O WELDED ATTACHMENT	4

HARDWARE

Item	Code	Description	Qty.
3	200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	16
4	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	8
5	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	8

Application

- Age Group: (5 - 12 Year Olds)
- Maximum Distance between Rung Height (Center of Grasping Location) to Top of Surfacing is 1981mm [70"].
- Recommended Deck Heights are 0mm [0"] to 610mm [24"].
- Maximum Deck Height is 762mm [30"]

Installation Instructions

- NOTE: Install adjacent playground components prior to installation of funwheel to insure no clamp conflicts.
- Lift Beam Assembly (Item 1) and loosely attach to posts (refer to DETAIL 1).
- Position to proper height and check for level and plumb.
- Tighten all clamps and hardware.
- At each small hole location, drill a 5mm hole and install hammer drive pins (NOTE: Four (4) drive pins per post).

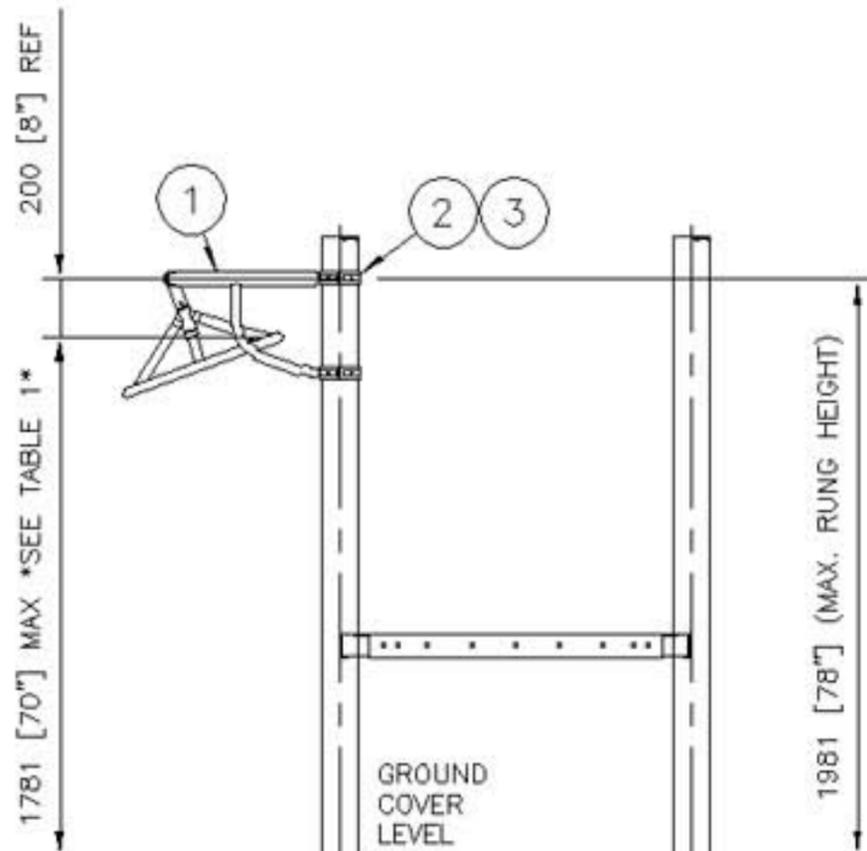
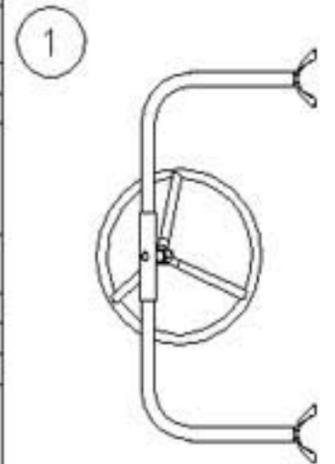
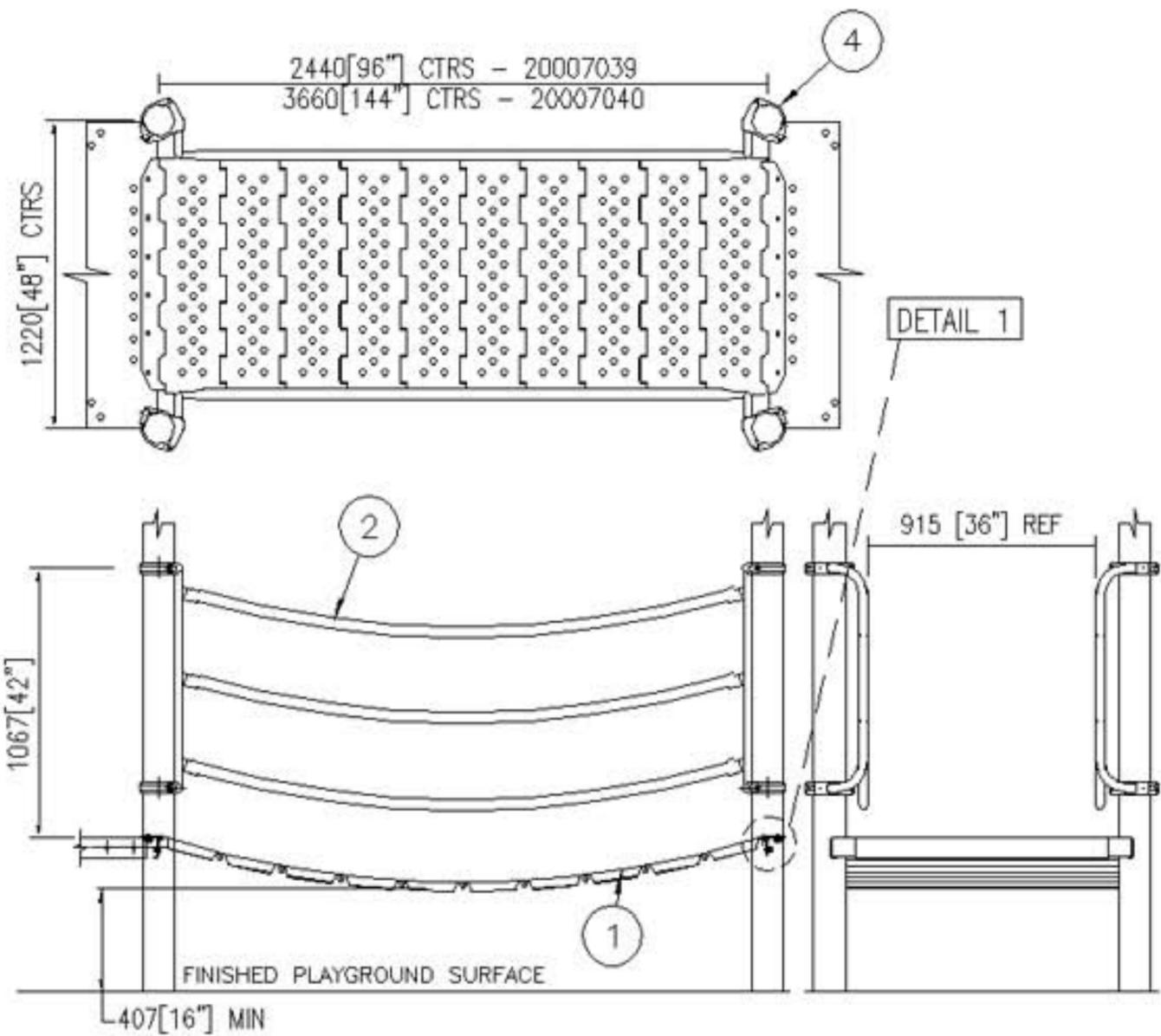
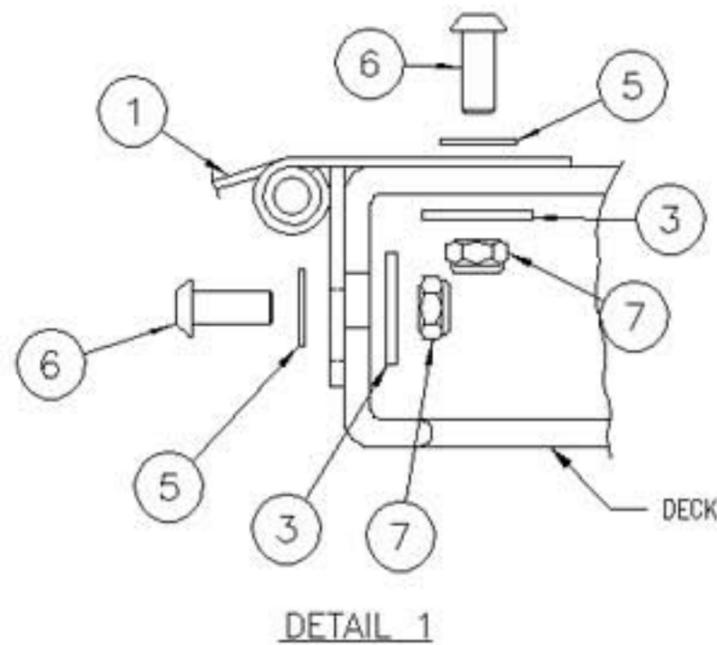


TABLE 1

AGE GROUP	REACH HEIGHT RANGES
5-9 YEARS	1140mm[45"]-1524mm[60"]
9-12 YEARS	1524mm[60"]-1778mm[70"]



2440 CLATTER BRIDGE 200001039
3660 CLATTER BRIDGE 200007040
BRIDGE CLATTER 8' W/GRD.RLS(SMALL HOLES) 200200344
BRDG CLATTER 3660/12' GRD RL(SMALL HOLES) 200200390
BRIDGE CLATTER 8' KB W/SFTY.RL (SM HOLE) 200202246
BRIDGE CLATTER 8' KB W/SFTY.RL(LG HOLE) 200202247

AUTHORIZED BY: _____ Date _____

Item	Code	Description	Qty.
1A	200003226	ASSY 2440 CLATTER BRIDGE (TDV)	1
1B	200003230	ASSY 3660 CLATTER BRIDGE (TDV)	
1C	200148103	ASSY 8' CLATTER (TDV) (SMALL HOLES)	
1D	200148267	ASSY 12'CLATTER (TDV) (SMALL HOLES)	
2A	-	GUARD RAIL KB 2440 CLATTER BRIDGE	2
2B	-	GUARD RAIL KB 3660 CLATTER BRIDGE	
2C	-	SAFETY RAIL F/KB 2440 CLATTER BRIDGE	
4	-	KB HOODED RAIL CLAMP	8

HDWR BAG F/KB CLATTER BRIDGES 200007669

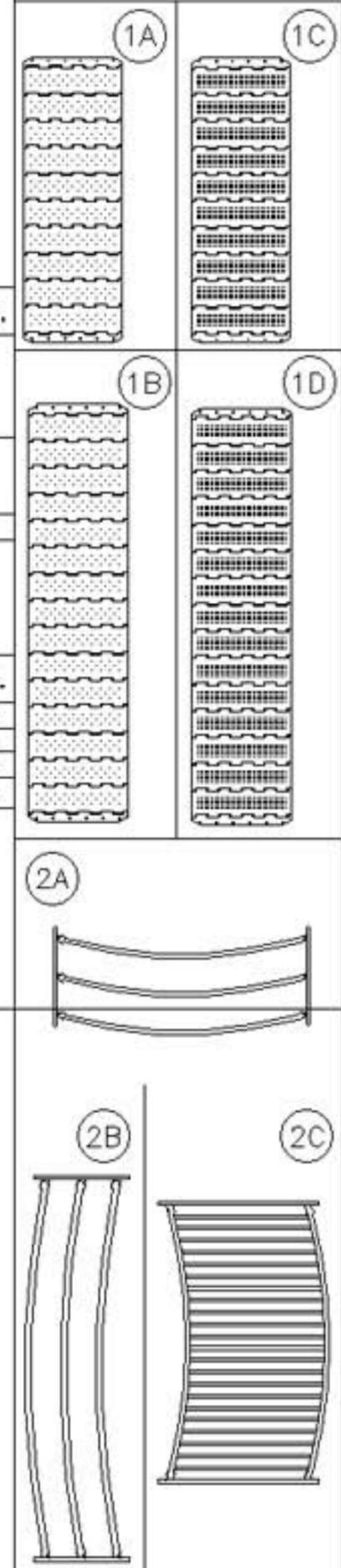
Item	Code	Description	Qty.
3	200002096	WASHER FLAT M10 340D X 111D X 3mm THK	26
5	200002079	WASHER FLAT M11 23 X 12 X 1.6mm	26
6	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25mm	26
7	200001945	NUT LOCK HEX NYLON INSERTED M10 1.5	26

Application

- Max. deck height for 5-12 age group is 1220[48"].
- Max. deck height for age group 2-5 is 760[30"].
- Min. height of bridge is 407[16"].
- Decks must be at the same height on either end of bridge.

Installation Instructions

1. Install decks (refer to deck installation instructions for details).
2. Place a saw horse between decks and drape the clatter bridge assembly over it.
3. Attach top plates of the clatter bridge hangers (both ends) to the top of the two decks (refer to Detail 1).
4. Attach the vertical edge of the hangers to the two deck edges (refer to Detail 1).
5. Slide hooded rail clamps over the guard rail ends.
6. Position guard rails at the proper height and fasten hooded rail clamps to the posts (refer to front of manual for clamp installation detail).
7. Tighten all hardware.



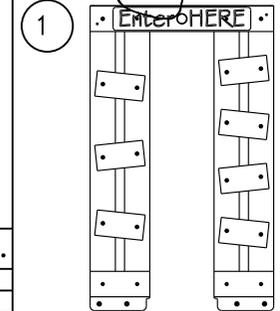
NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

AUTHORIZED BY:

Chris M. Anderson

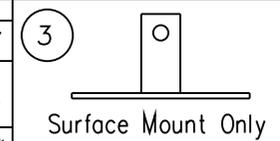
18AUG11

RECYCLED TREEHOUSE SNAKE POLE 36" F/KB 200202452
RECYCLED TREEHOUSE SNAKE POLE 48" F/KB 200202453
RECYCLED TREEHOUSE SNAKE POLE 64" F/KB 200202454
RECYCLED TREEHOUSE SNAKE POLE 72" F/KB 200202459
RECYCLED TREEHOUSE SNAKE POLE 80" F/KB 200202460
RECYCLED TREEHOUSE SNAKE POLE 88" F/KB 200202461
RECYCLED TREEHOUSE SNAKE POLE 96" F/KB 200202462



Item	Code	Description	Qty.
1	-	PANEL TREE VERT CLIMB "ENTER HERE"	1
2	-	KB WING CLAMP ASSEMBLY	2
3	-	TUBE ANCHOR F/VERTICAL CLIMBERS *	1
4	-	SNAKE POLE	1

* FOR SURFACE MOUNT ONLY



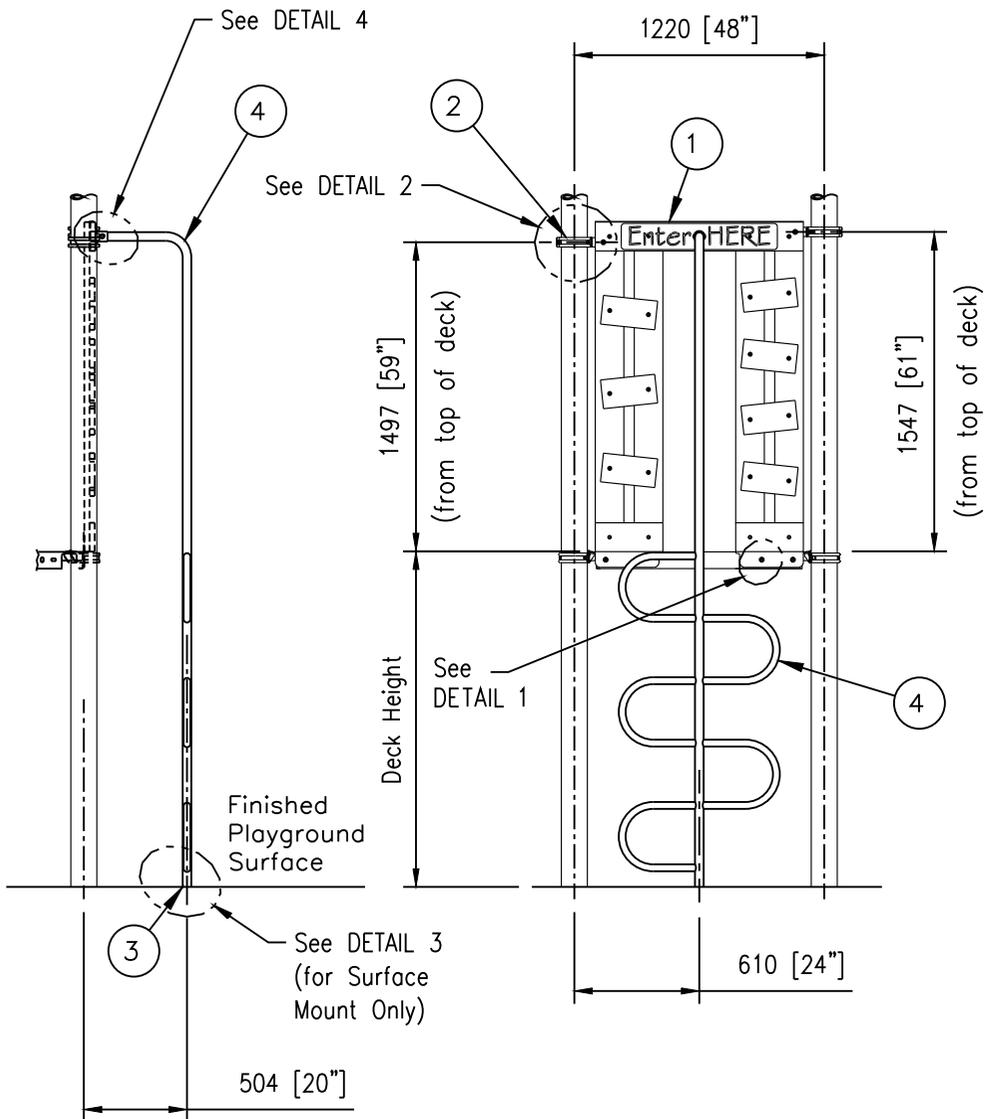
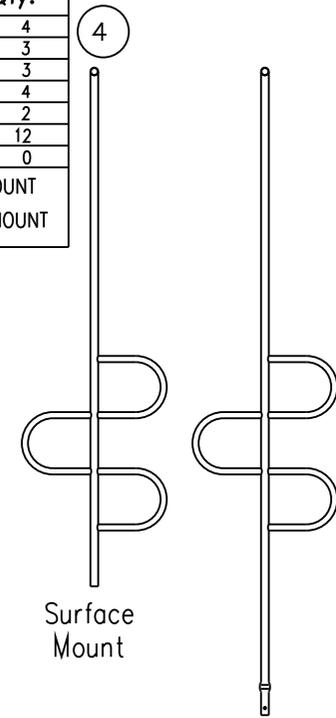
HDWR BAG F/TREEHOUSE CURLY/SNAKE CLIMB 200190205

Item	Code	Description	Qty.*	Qty.**
5	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	4	4
6	200002138	BOLT M8 X 1.25 MALE 42.5 MM	3	3
7	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30 MM	4	3
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	4	4
9	200008483	WASHER BOWED M11 23.5 X 11.7 X 1.57 MM	4	2
10	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	12	12
11	200002133	BOLT M8 X 1.25 MALE 27.5 MM *	1	0

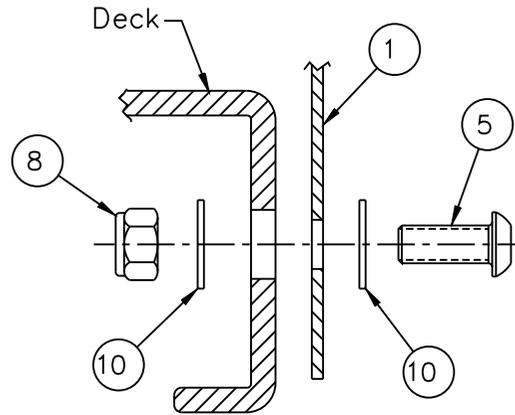
* FOR SURFACE MOUNT
** FOR INGROUND MOUNT

Installation Instructions

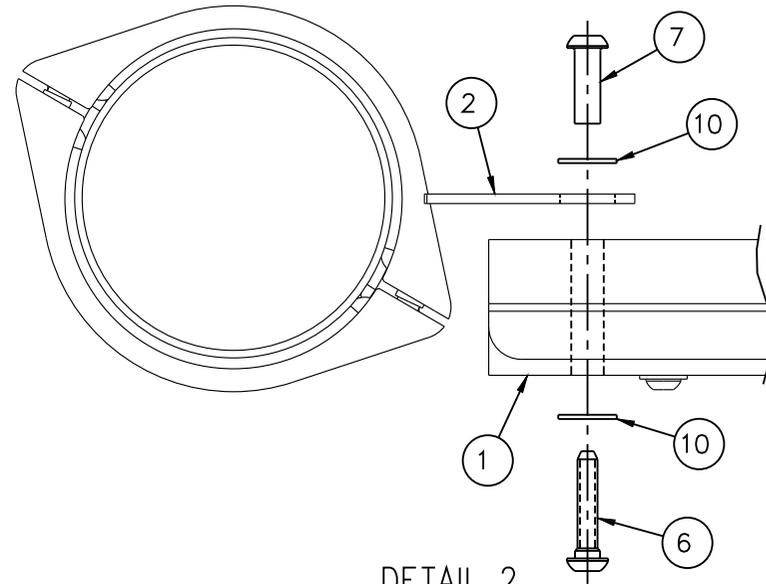
1. Prepare footing.
2. Loosely attach the clamps to the posts (refer to front of manual for clamp installation details).
3. Lift enclosure into place and loosely attach to deck edge (refer to DETAIL 1).
4. Loosely attach enclosure to clamps (refer to DETAIL 2).
5. For Surface Mount version, loosely attach tube anchor to climber (refer to DETAIL 3).
6. Lift climber into place and attach to enclosure (refer to DETAIL 4).
7. Check for level/plumb, tighten all hardware and install clamp hammer drive pins.



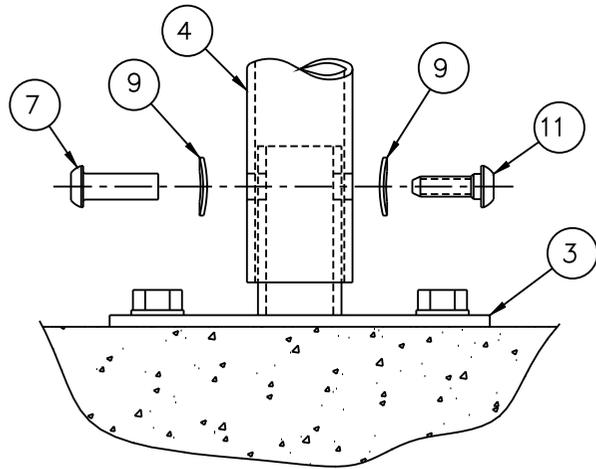
NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS



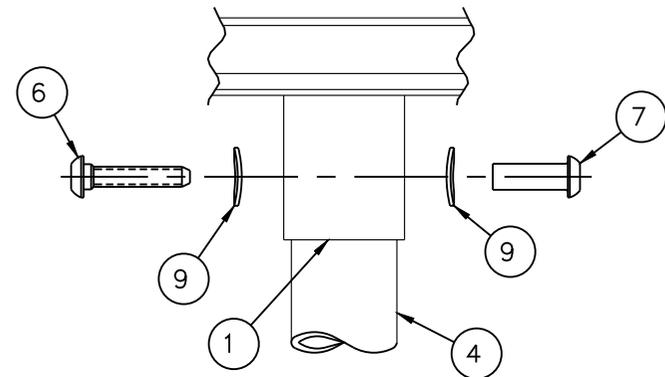
DETAIL 1
Typ 4 Places



DETAIL 2
Typ 2 Places



DETAIL 3
Surface Mount Only



DETAIL 4

AUTHORIZED BY: 23FEB18
Tracy Archer

**RAIL 10-BAR SAFETY KB W/O MT. TAB
200029708**

**RAIL 10-BAR SAFETY KB
200007132**

Item	Code	Description	Qty.
1A	910317P	10 BAR ARCH SAFETY KB W/O TAB	1
1B	910311P	SAFETY RL ARCH 10-BAR W/TAB F/KB	1
2	909346P	HOODED RAIL CLAMP F/KB	2
3	HW7712-1	HRDW PKG ARCH SFTY RL/MSH PNL 1/1	1
4	HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS 1/1	1

**HRDW PKG ARCH SFTY RL/MSH PNL 1/1 -
HW7712-1**

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

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

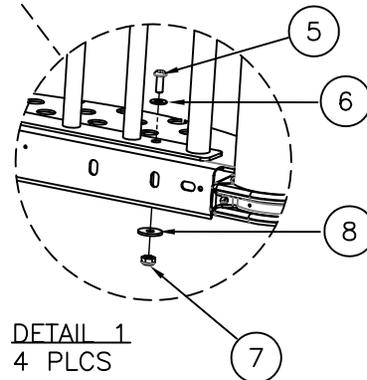
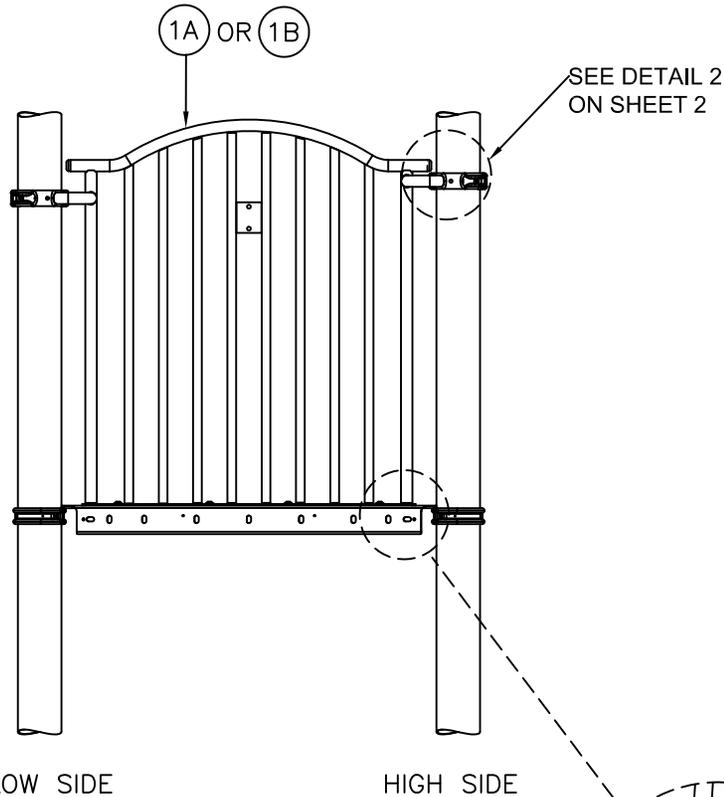
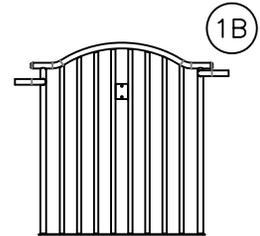
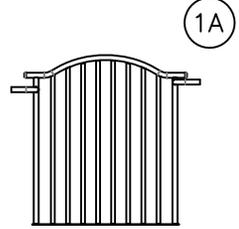
Item	Code	Description	Qty.
9	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	4
10	200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	4
11	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	4

Application

- For ages 2-12.
- 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.

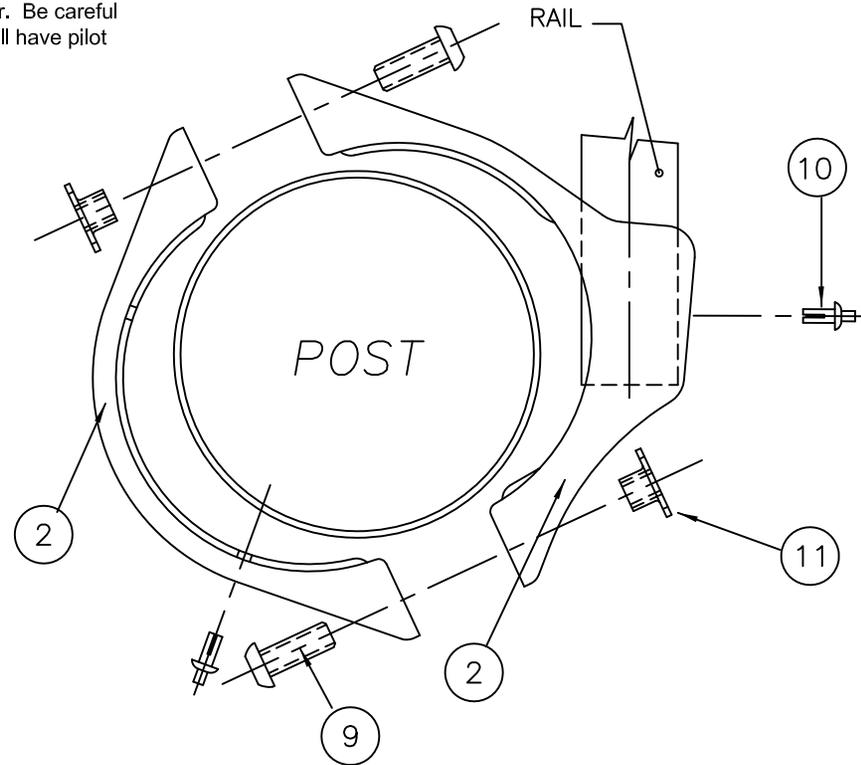
Installation Instructions

1. Loosely attach hooded rail clamps to posts. Note high side/low side clamps.
2. Attach safety arch (Item 1A or 1B) to deck edge as shown in DETAIL 1.
3. Attach the panel to the clamps as shown in DETAIL 2, SHEET 2.
4. Refer to instruction I900056 for steering wheel assembly.
5. Make sure safety arch is level and tighten all hardware.



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 (Item 2) will have a small hole and a large hole on opposite sides. The larger hole accommodates the tee nuts (Item 11).
2. Always make sure the event is at the proper height and the clamps are level before hammer drive pins (Item 10) are installed.
3. There will also be two (2) 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 installation.



DETAIL 2

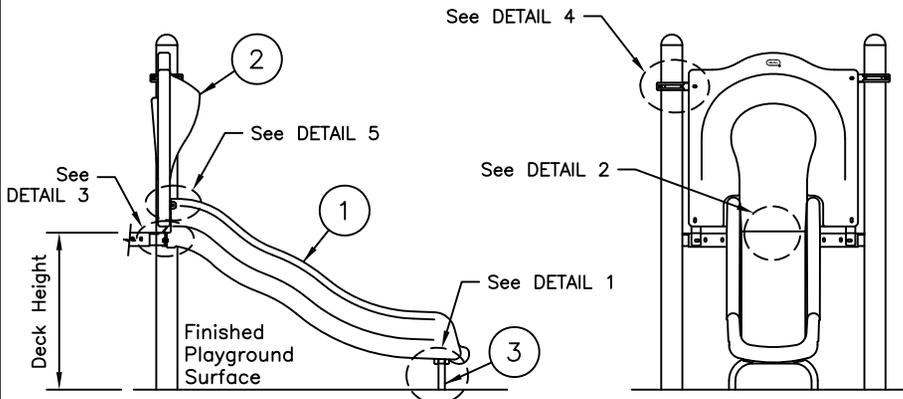
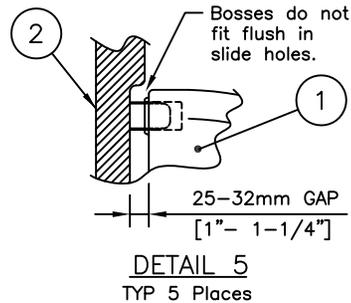
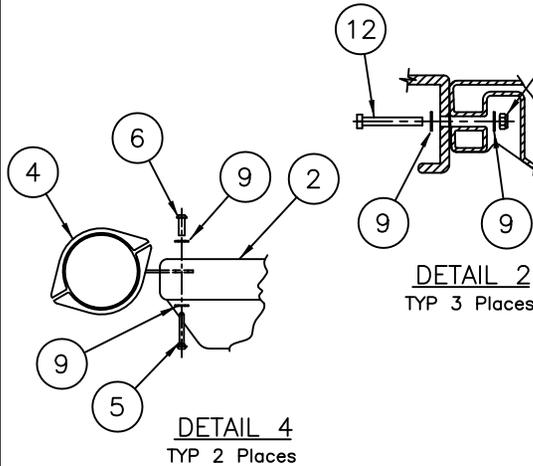
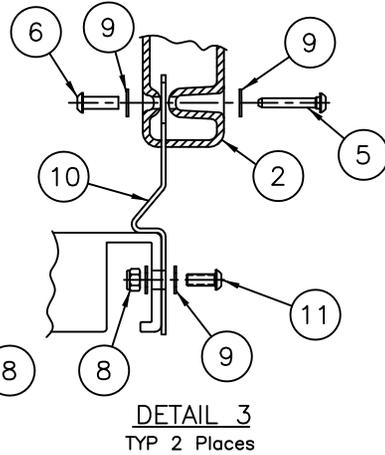
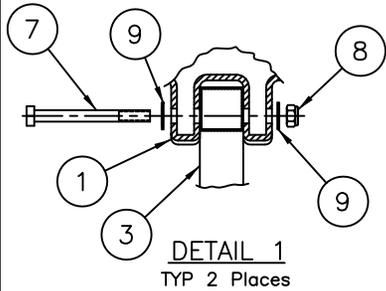


812/915/1016/1220 SINGLE WIDE WAVE SLIDES

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

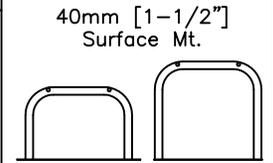
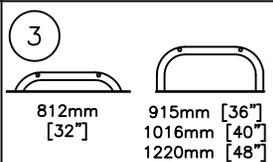
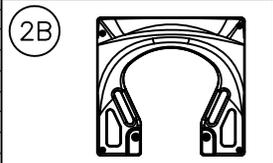
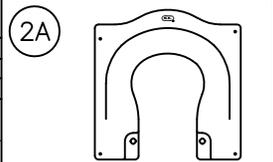
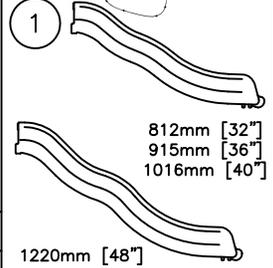
Item	Code	Description	Qty.
5	200002142	BOLT M8 X 1.25 MALE 57.5 mm	4
6	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30mm	4
7	200001875	CAP SCREW HEX HEAD M10 1.50 X 110mm	2
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	7
9	200002079	WASHER FLAT M11 23 X 12 X 1.6 mm	22
11	200002018	SCREW MACH BUTTONHEAD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

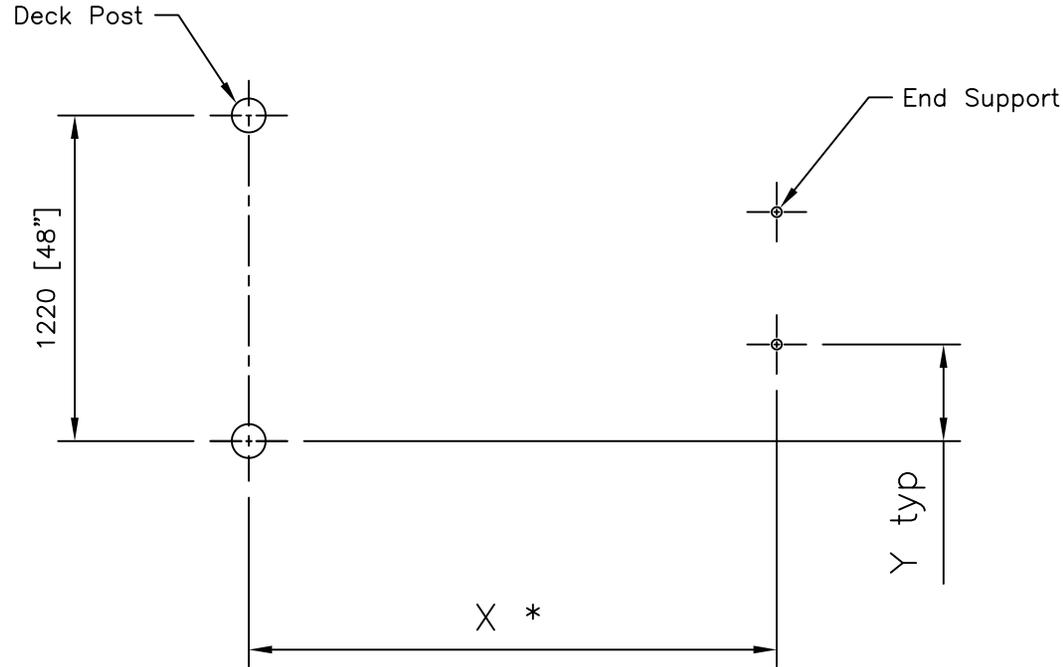
1. Prepare footings.
2. Attach the end support to the underside of the Slide as shown in DETAIL 1.
3. Place the support in the footing and attach the Slide to the deck edge as shown in DETAIL 2. If Surface Mounting, anchor the supports to the concrete.
4. Insert the bosses located at the front of the 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



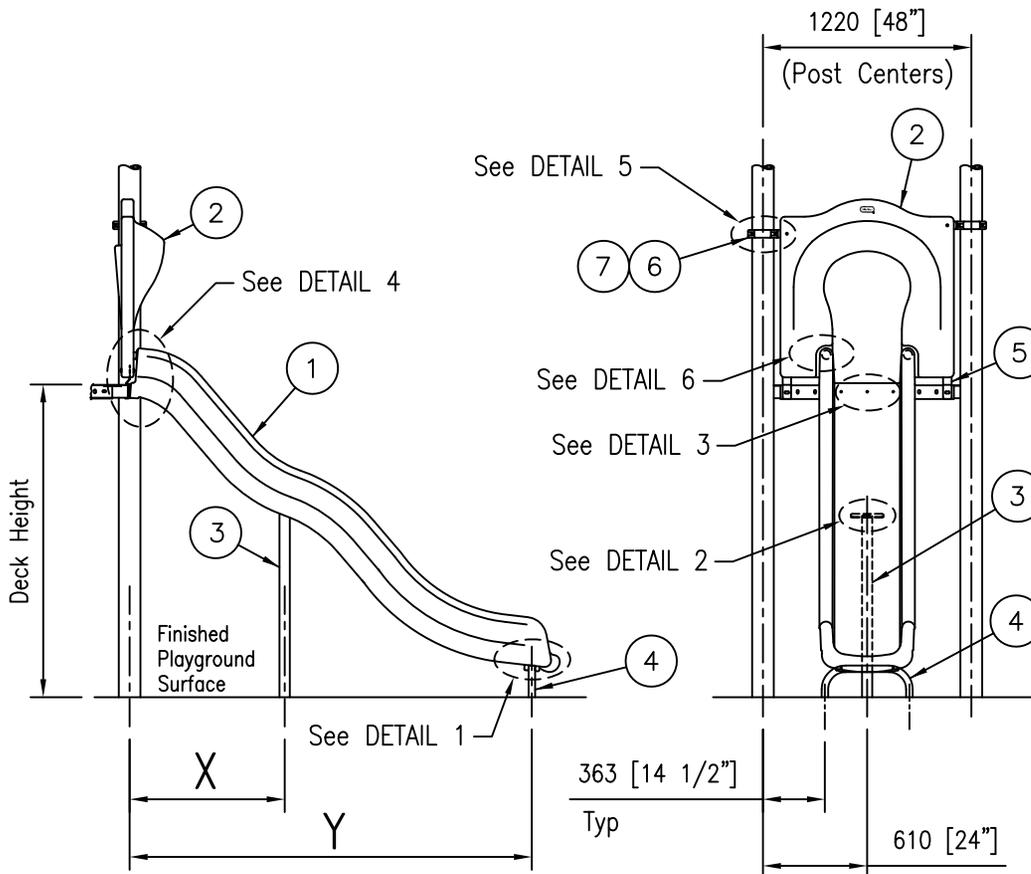
DECK HEIGHT	X		Y	
	Surface Mount	Inground	Surface Mount	Inground
812 [32"]	1650 [65"]	1650 [65"]	325 [13"]	363 [14-1/2"]
915 [36"]	1650 [65"]	1650 [65"]	363 [14-1/2"]	363 [14-1/2"]
1016 [40"]	1610 [63-1/2"]	1650 [65"]	410 [16"]	363 [14-1/2"]
1220 [48"]	1980 [78"]	1980 [78"]	363 [14-1/2"]	363 [14-1/2"]

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

FOOTING DIMENSIONS

Deck Height	X* (mid support)	Y* (end support)
1625 [64"]	965 [38"]	2475 [97 1/2"]
1830 [72"]	908 [36"]	2356 [92 1/2"]

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



NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

KB SLIDE WAVE 1625 MM/64" 200006981
KB SLIDE WAVE 1830 MM/72" 200201043

KB SLIDE WAVE 64" W/2014 HOOD 200203327
KB SLIDE WAVE 72" W/2014 HOOD 200203328

Item	Code	Description	Qty.
1	-	SLIDE WAVE SGL.WD. 1625 MM	1
2A	-	HOOD SGL.WD. F/KB SLIDES	1
2B	-	KB SGL WIDE SLIDE HOOD (2014)	1
3	-	SUPP. MID WAVE SLIDE	1
4	-	SUPPORT END F/KK WAVE SLIDE	1
5	-	TAB F/PANEL MOUNTING F/KB	2
6	-	KB PANEL CLAMP ASSEMBLY	2

HDWR BAG F/KB 64" WAVE SLIDE (MM)
200007675

Item	Code	Description	Qty.
8	200002142	BOLT M8 X 1.25 MALE 57.5 MM	4
9	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30 MM	4
10	200001859	CAP SCREW HEX HEAD M10 X 1.50 X 75mm	3
11	200001875	CAP SCREW HEX HEAD M10 X 1.50 X 110 MM	2
12	200002010	SCREW MACH BUTTONHEAD M10 X 1.50 X 16mm	4
13	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25mm	2
14	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	7
15	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	26

Application

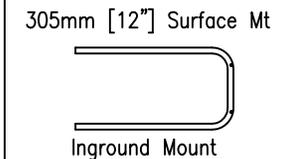
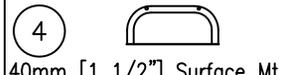
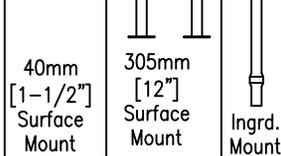
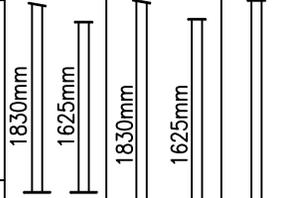
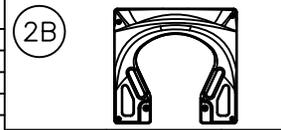
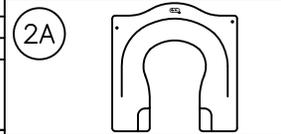
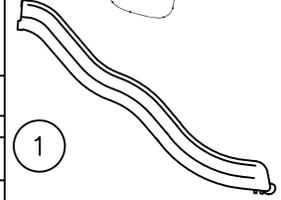
- Age groups: (2-5 year olds) & (5-12 year olds).
- For slides with an elevation greater than 1220 [48"], exit region should be between 180-380 [7"-15"].
- Runout slope must be between 0 and -4 degrees.

Installation Instructions

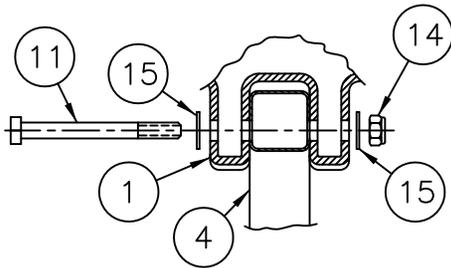
1. Prepare footings.
2. Attach the end support to the underside of the Slide as shown in DETAIL 1. Attach the mid support to the slide in the location as shown in DETAIL 2.
3. Place the supports in the footings and attach the Slide to the deck edge as shown in DETAIL 3. If Surface Mounting, anchor the supports to the concrete.
4. Insert the bosses located at the front of the Slide Hood into the holes provided on the top of the side walls of the Slide as shown in DETAIL 6. 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.
5. Insert the deck mounting tabs in the lower portion of the hood then attach to the deck edge as shown in DETAIL 4. (NOTE: vertical slot in tab should be inserted into panel off centered to the outside.)
6. Insert panel clamps into the slots in the Hood as shown in DETAIL 5. Attach the clamps to the posts. (Refer to front of manual for clamp installation detail.)
7. Tighten all hardware.
8. Complete footings and install resilient surfacing.

AUTHORIZED BY: 12DEC14

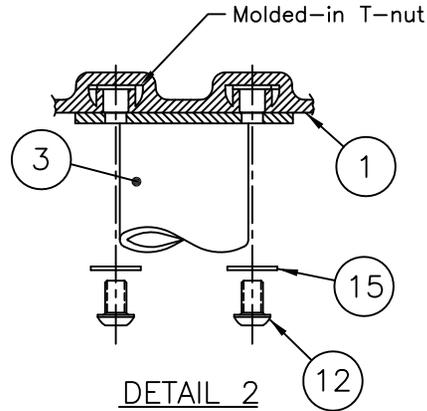
Chris M. Newberry



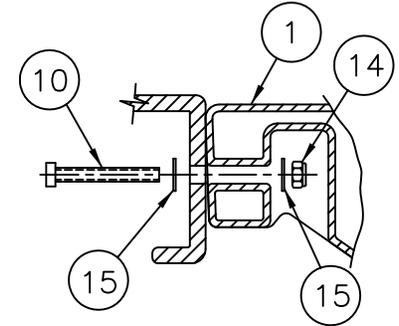
Chris M. Mackay



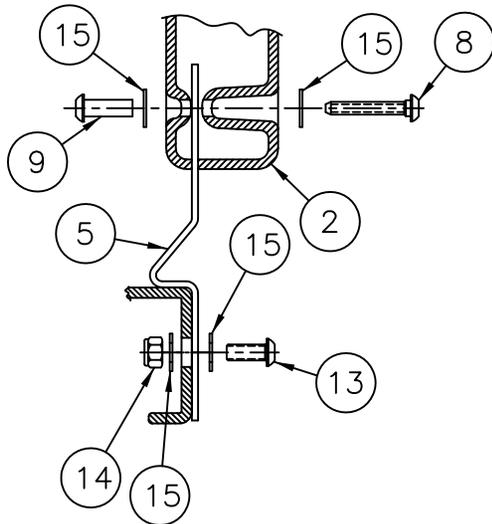
DETAIL 1
Typ 2 Places



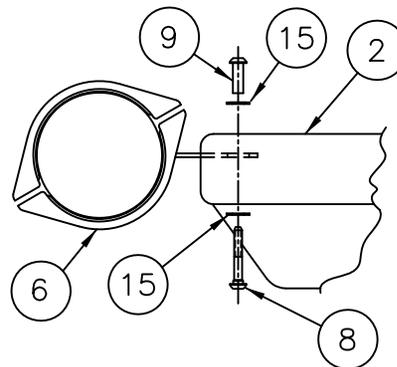
DETAIL 2
Typ 2 Places



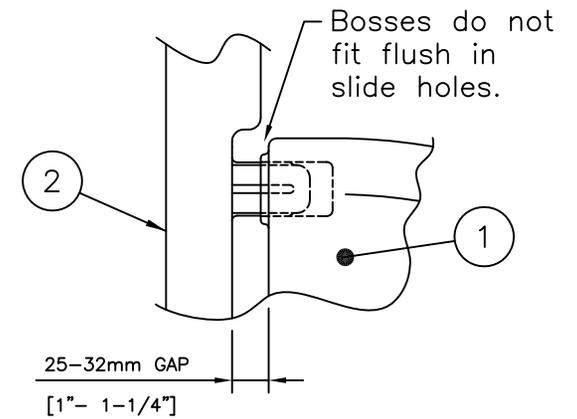
DETAIL 3
Typ 3 Places



DETAIL 4
Typ 2 Places

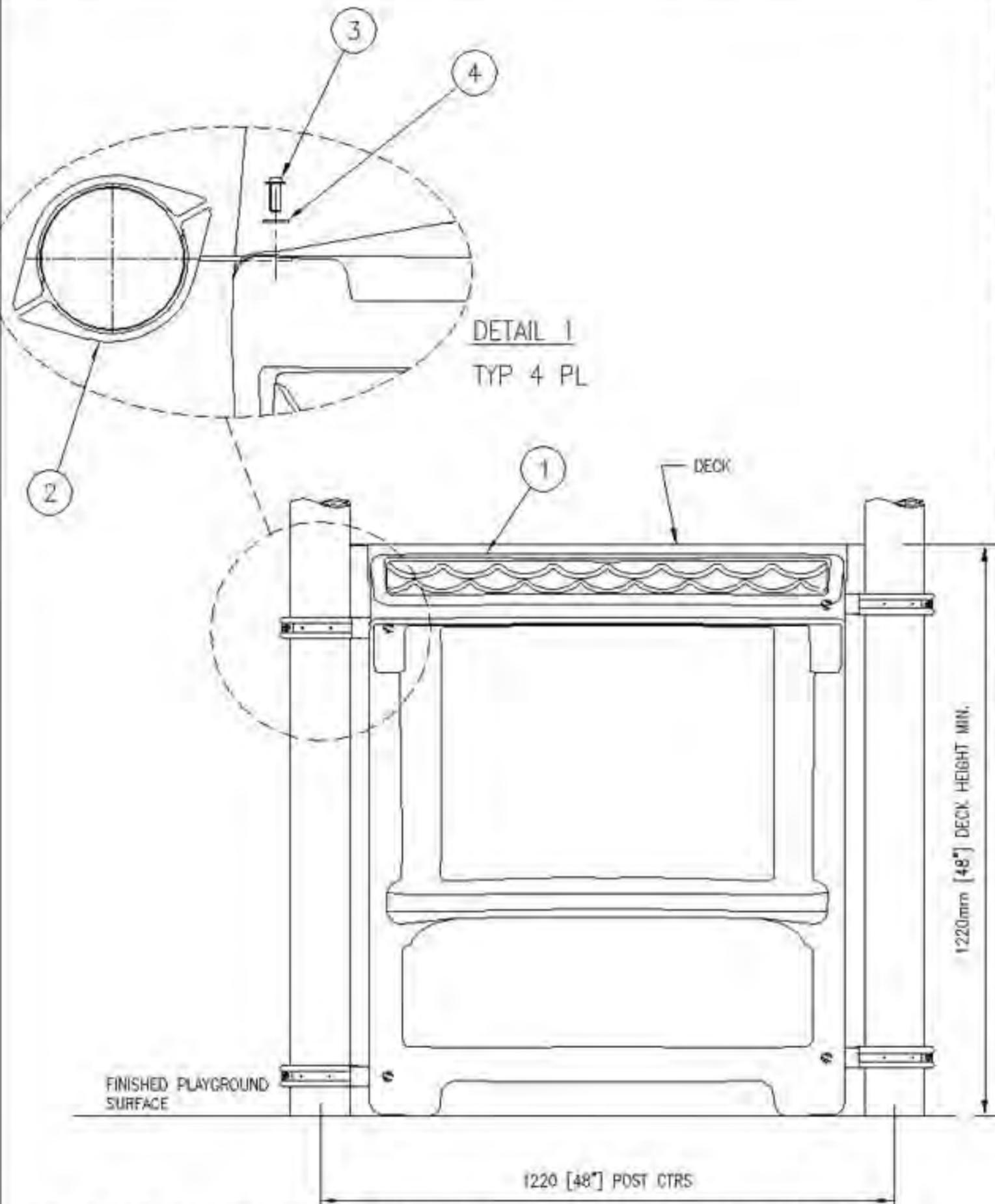


DETAIL 5
Typ 2 Places



DETAIL 6
Typ 2 Places

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

AUTHORIZED BY
Chris M. [Signature] 47JAND1

SQUARE ROOF
200007137

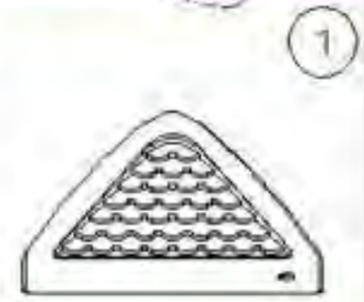
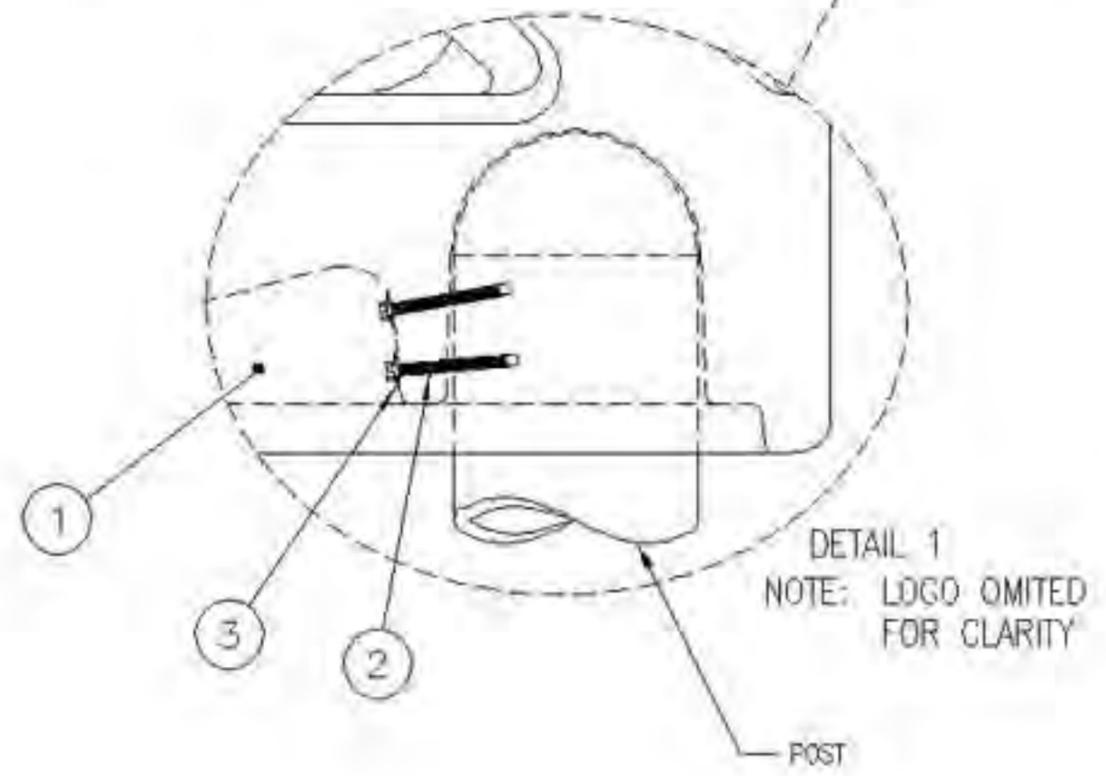
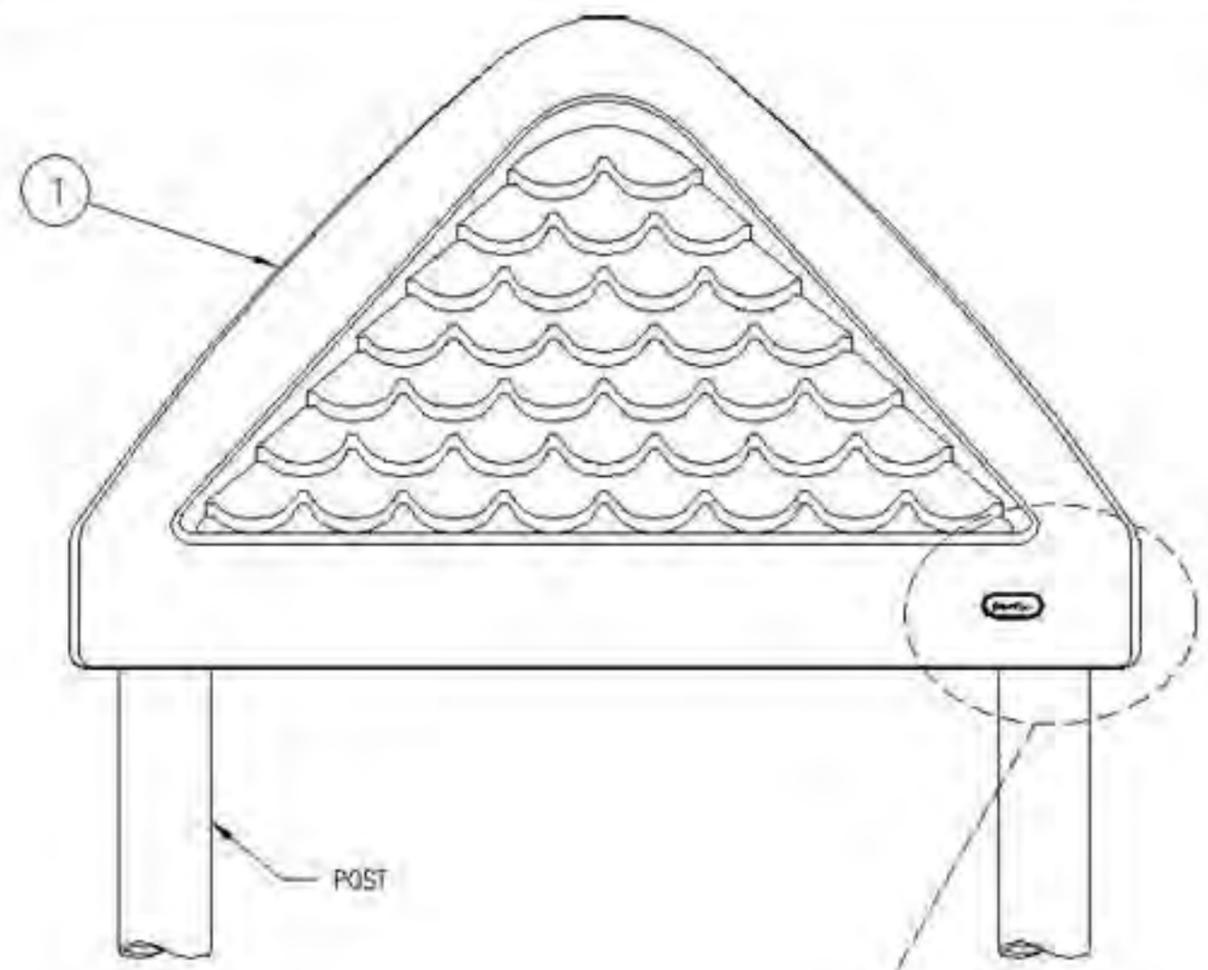
Item	Code	Description	Qty.
1	-	ROOF F/KB	1
2	200002002	SCREW DRILL HEX HEAD M6.3 X 1.81 X 65mm	8
3	200002057	WASHER FLAT M6 17.5 X 7.5 1.5mm	8

Application AGE GROUPS (2-12 YEAR OLDS)

- 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).





Project Number: R0324200140

PlayArea: PlayArea_1 | Traditional Play

Project Name:

Project Location:

Sales Representative:

Northland Recreation
10085 Bridgewater Bay
Woodbury, MN 55129
2623138636

Installation Instructions

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

Date: 2/19/2020 12:00:00 AM

TOT SWING SEAT

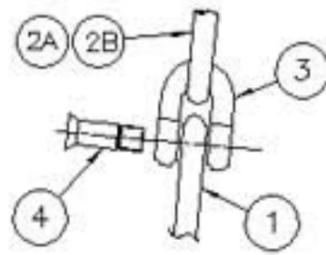
200302389

1800038B

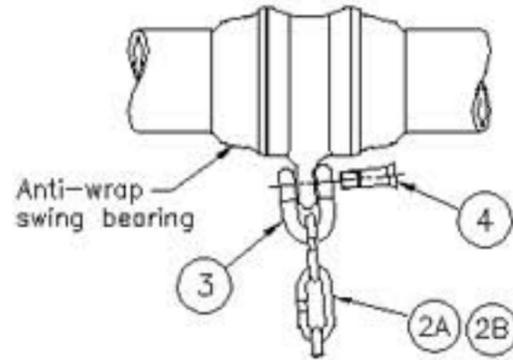
Sheet 1 of 1

AUTHORIZED BY: 14APR14

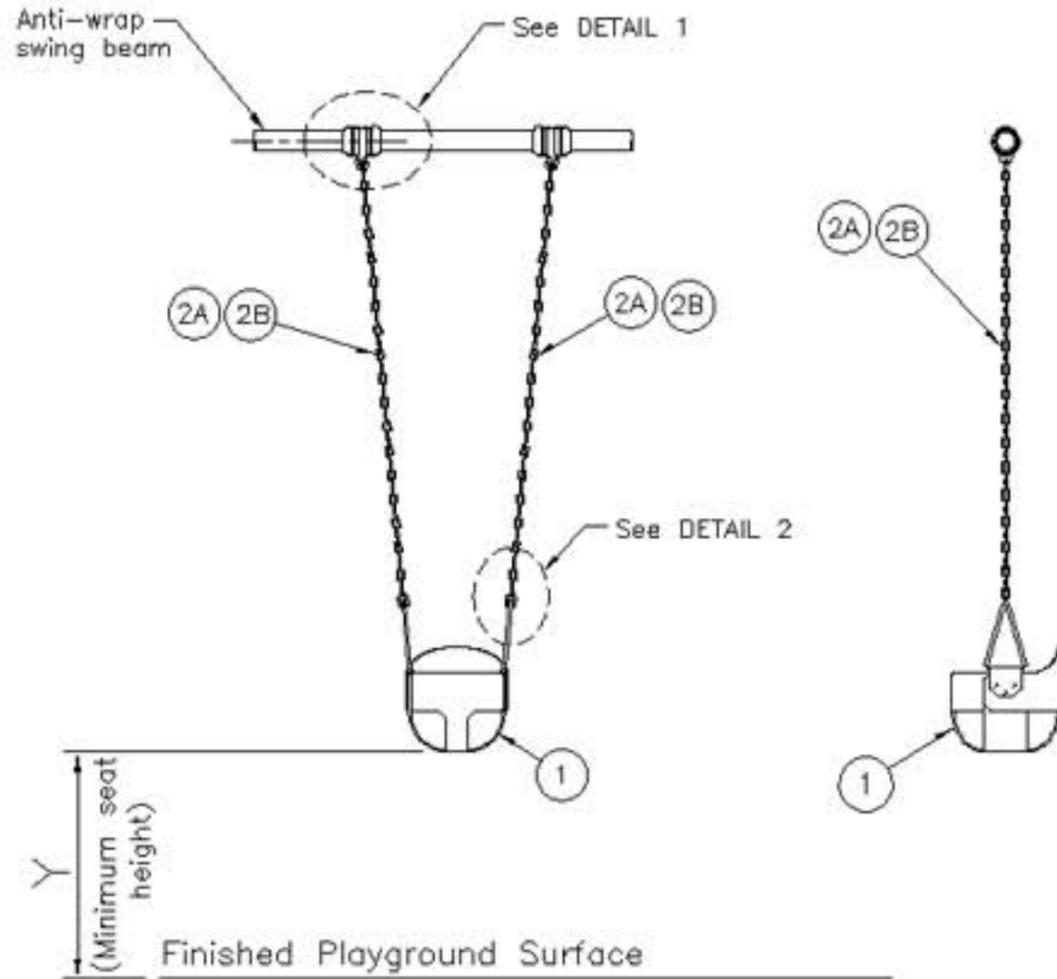
Alpha



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

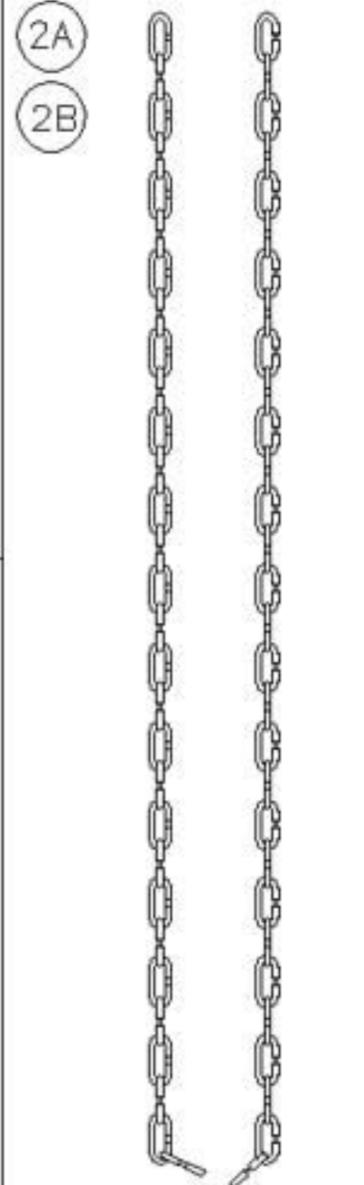
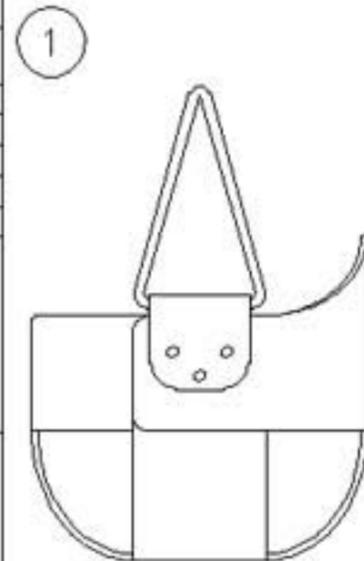
MATERIAL: Tot Swing Seats shall be heavy duty construction, fabricated from black rubber with a tempered steel insert molded inside, rendering them slashproof. Tot seat shall be fully enclosed to prevent slipping out and provide lower back support. Two sizes of leg cutouts make this seat versatile enough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

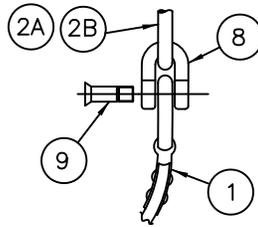


BELT SWING SEAT

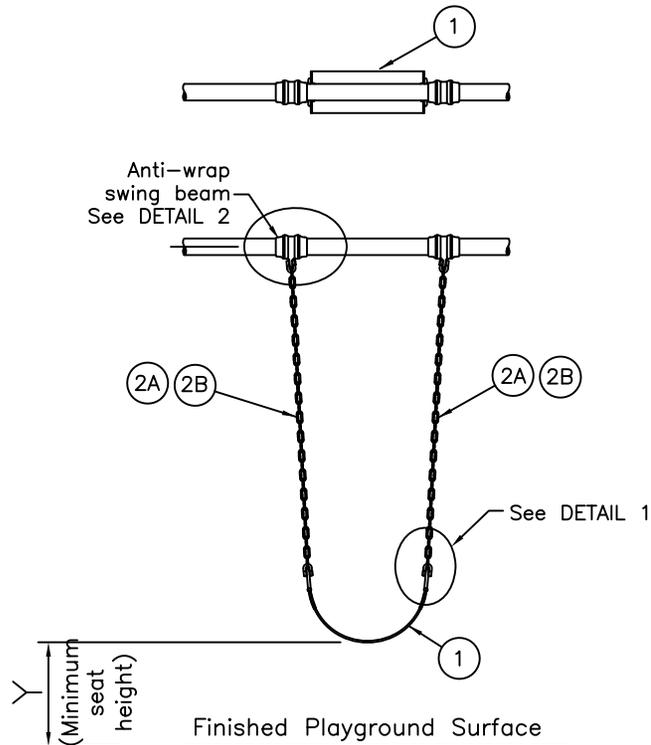
I800039C

Sheet 1 of 2

AUTHORIZED BY: 17APR19
Steve Adkins



DETAIL 1
Typ 2 Places



ASSEMBLY BELT SEAT F/8' SWING W/CHAIN - 200202835
ASSEMBLY BELT SEAT F/10' SWING W/CHAIN - 200202832

Item	Code	Description	Qty.
1	999604*	BELT SWING SEAT, SLASH PROOF - NO LOGO	1
2A	200187286	CHAIN F/8' TOP RAIL BELT/DURAGLIDE (71")	1
2B	200187287	CHAIN F/10' TOP RAIL BELT/DURAGLIDE (95")	1
3	200189491	HDWR BAG LBL/INST.F/BELT SWG CSA	1
4	200189492	HDWR BAG LBL/INST.F/BELT SWG 8' BEAM US	1
5	200189493	HDWR BAG LBL/INST.F/BELT SWG 10' BEAM US	1
6	200001167	T-45 TAMPER PROOF KEY (TORX WRENCH)	1
7	HW35993-02	HRDW PKG 2 SM D STY SKL ST S1/1	1

HRDW PKG 2 SM D STY SKL ST S1/1 - HW35993-02

Item	Code	Description	Qty.
8	200035993	SHACKLE "D" STYLE 41MM 300 SS (SMALL)	2
9	200035994	BOLT M10 X 1.5 X 27MM 300 SS 6-LOBE (SM)	2

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

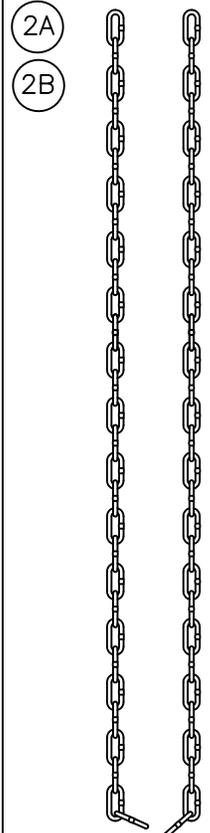
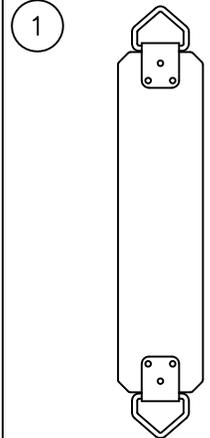
MATERIAL: Rubber with a tempered steel insert molded inside

Installation Instructions

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

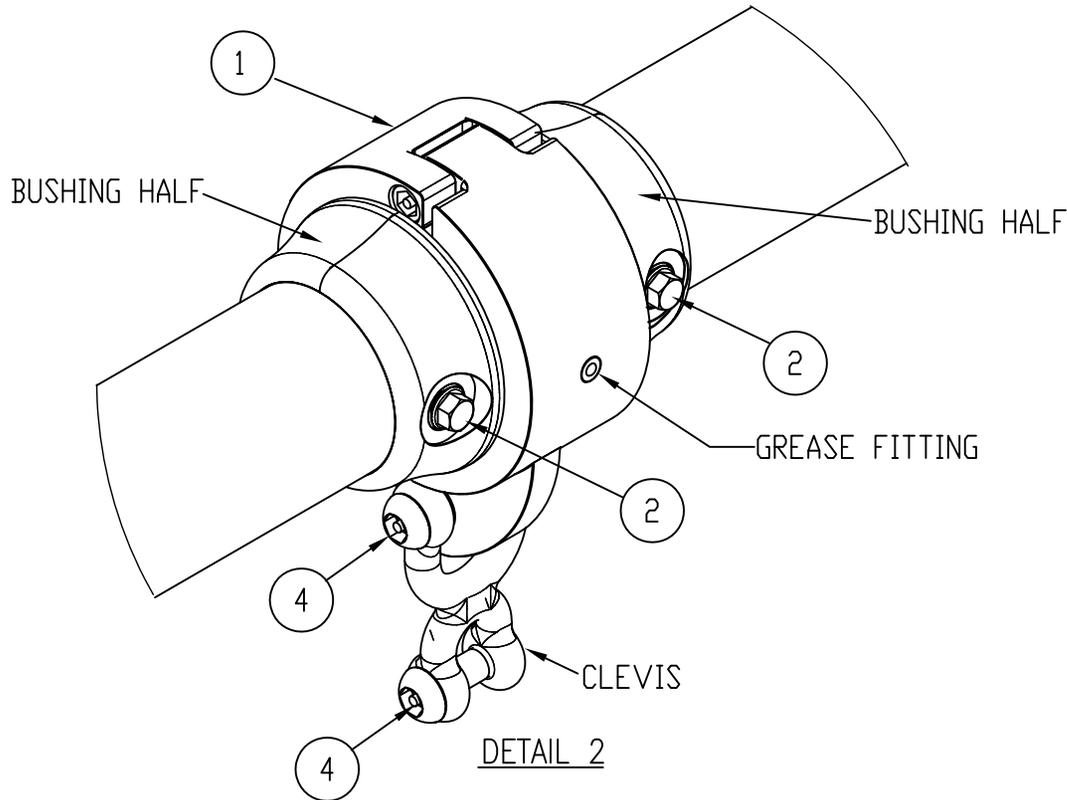
NOTES:

1. See separate instruction for swing frame installation.



NOTE:

1. MINIMUM SEAT HEIGHT TO BE 12 INCHES.



994824 - (2) ANTI WRAP HANGER 2 3/8" TOP RAIL PARTS

Item	Code	Description	Qty.
1	102421	ANIT-WRAP SWING HANGER 2 3/8" TOP RAIL	2
2	104403	BOLT 1/4-14 X 1 1/4 HEX WASHER TEK	8
3	102424	5/16" HEX BIT W/HOLE (TAMPER RESISTANT)	1
4	SP2008898	LOCTITE 271 RED, .02 OZ (.5ML) DISP TUBE	1

NOTE: DISCARD TEK SCREWS THAT COME WITH THE 102421 KIT AND USE (ITEM 2).

Installation Instructions

STEP 1 – REMOVE THE BOLT FROM THE CLEVIS AND SET THE BOLT ASIDE.

STEP 2 – OPEN THE HANGER ASSEMBLY (ITEM 1) AND REMOVE THE BUSHING HALVES. CENTER ONE (1) OF THE BUSHING HALVES ON TO THE BEAM USING THE HANGER LAYOUT FOR LOCATION, SHEET 3. ATTACH USING TWO (2) OF BOLTS (ITEM 2).

STEP 3 – 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.

STEP 4 – PLACE THE HANGER ASSEMBLY (ITEM 1) AROUND THE BUSHING HALVES.

STEP 5 – APPLY LOCTITE (ITEM 4) TO THE END OF THE BOLT THAT WAS SET ASIDE IN STEP 1. ATTACH THE CLEVIS BACK TO THE HANGER ASSEMBLY (ITEM 1) USING THAT BOLT.

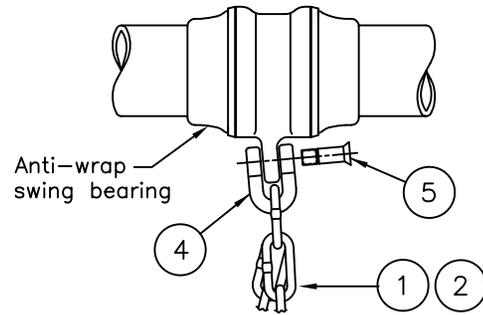
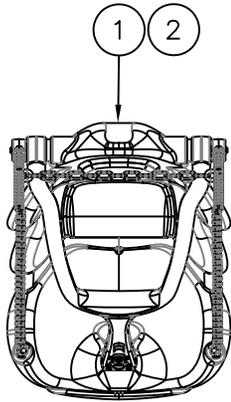
STEP 6 – ATTACH THE CHAIN TO THE BOTTOM OF THE CLEVIS USING THE BOLT THAT CAME WITH (ITEM 1). APPLY LOCTITE (ITEM 4) TO THE END OF THE BOLT BEFORE INSERTING INTO CLEVIS. TIGHTEN ALL HARDWARE.

STEP 7 – USING A GREASE GUN, PLACE A SUFFICIENT AMOUNT OF ALL-PURPOSE GREASE INTO THE GREASE FITTING TO ALLOW THE HANGER TO SWING FREELY.

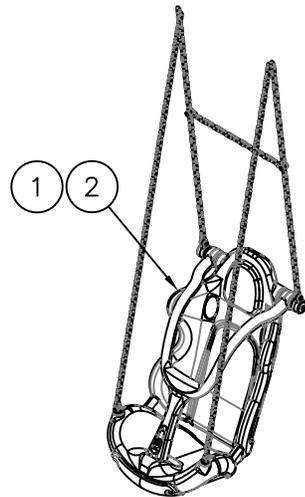
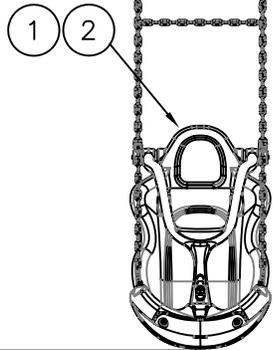
INCLUSIVE SWING SEAT

1800042D

Sheet 1 of 1



DETAIL 1
Typ 2 Places



NOTE:

1. MINIMUM SEAT HEIGHT TO BE 12 INCHES

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 kits below

INCL SWG SEAT RES REPLACEMENT KIT
923422

Code	Description	Qty.
304262	YOKE FRICTION SPACER	4
200097726	SCREW MACH BUTTONHEAD M10 X 1.5 X 38MM	2

REPLACEMENT LATCH F/INCL SWG SEAT
924407

Code	Description	Qty.
906478	LATCH LOCATOR SLEEVE	1
906491	LATCH GRIP	1
906498	LATCH FRONT PLATE	1
906499	LATCH SPRING PLATE	1
906500	LATCH CYLINDER	1
906501	LATCH BACKING PLATE	1
906488	LATCH COMPRESSION SPRING	1
200002010	SCREW MACH BUTTONHEAD M10 X 1.5 X 16MM	1
200097726	SCREW MACH BUTTONHEAD M10 X 1.5 X 38MM	1

HDWR BAG F/INCL SWING SEAT 8FT TOP RAIL
902841

Code	Description	Qty.
906502	INCLUSIVE SWING CHAIN 1, 34 LINKS F/8FT	2
906118	INCLUSIVE SWING CHAIN 2, 50 LINKS F/8FT	2
903699	INCLUSIVE SWING CHAIN 3, 13 LINKS	1
200035993	SHACKLE "D" STYLE 41MM 300 S.S. (SMALL)	6
200035994	BOLT M10 X 1.5 X 27MM 300 SS 6-LOBE(SM)	6

HDWR BAG F/INCL SWING SEAT 10FT TOP RAIL
902840

Code	Description	Qty.
903695	INCLUSIVE SWING CHAIN 1, 52 LINKS F/10FT	2
903694	INCLUSIVE SWING CHAIN 2, 68 LINKS F/10FT	2
903699	INCLUSIVE SWING CHAIN 3, 13 LINKS	1
200035993	SHACKLE "D" STYLE 41MM 300 S.S. (SMALL)	6
200035994	BOLT M10 X 1.5 X 27MM 300 SS 6-LOBE(SM)	6

AUTHORIZED BY:
Mellisa Holliday 12SEPT18



Maintenance cont.

- Check chain and seat for wear
- See Replacement Kits above for 8FT and 10FT.

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.

Arch Swing Frames with Anti-Wrap Swing Hangers

IMPORTANT! Prior to installation of any components refer to the front of the **Manufacturer's Assembly** manual and applicable safety guidelines and/or standards. The *Manufacturer's Assembly Manual* will provide important tips pertaining to **site requirements, footings, hardware** and other necessary information **vital to the success of your installation.**

Models included in this installation guide:

<u>MODEL</u>	<u>DESCRIPTION</u>	<u>PAGE</u>
200203507	Arch Swing Frame 3.5" Single Bay	4
200203508	Arch Swing Frame 3.5" Add-On	5
200203542	Arch Swing Frame 3.5" Short Bay	5
200203543	Arch Swing Frame 3.5" Add-On	6

Note:

- *Inspect equipment on a regularly scheduled basis. Refer to Playground Inspection/Maintenance and Repair Guidelines located in Installation Manual. Anti-Wrap Swing Swivel should be inspected monthly to ensure there are no worn, sharp, vandalized or rusted components. It should also be determined at this time if more grease is required to keep swivel moving freely.*
- *An (*) by a part number (CODE) indicate: Color Code Required.*

200203507 ARCH SWING FRAME 3.5" SGL BAY			
ITEM	CODE	DESCRIPTION	QTY
1	983060*	ARCHED SWING SUPRT ASY, PTD	2
2	979396*	TOP RAIL 10'-6" X 3 1/2 OD	1
3	102423	TUBE 2ml-THREADLOCKER VIBRA-TITE 12102	1
4	988278	PIN, THREADED, 5/8" OD X 4"	2
5	999046*	PARTS CARTON - TOUCH-UP PAINT-SWG LEG	1
6	994825	PARTS CARTON (2) ANTI-WRAP 3 1/2" 102422	2
7	999047*	PARTS CARTON - TOUCH-UP-PAINT-TOP RAIL	1
8	300001537	LABEL "TOP OF SURFACE" #2B3794D (4X1) R/B	1
9	200182848	LABEL ID/AGE 2-12/18MOS-12YRS.	1
10	200182851	LABEL COVER CLEAR LAMINATE	1
11	116022	LABEL WARNING - PLAYGROUND - ENGLISH	1
12	200182854	STICKER CIRCLE, AGE 2YR - 12YR	1
13	200182855	STICKER CIRCLE, AGE 18M - 12YR	1
14	HW994823-1	HRDW PKG AW7147352 S1/1	1

Arch Swing Frames with Anti-Wrap Hangers

1800046

Arch Swing Frames with Anti-Wrap Swing Hangers

200203508 ARCH SWING FRAME 3.5" ADD-ON			
ITEM	CODE	DESCRIPTION	QTY
15	983079*	ARCHED SWING SUPPORT, DBL RECEIVER, PTD	1
16	979396*	TOP RAIL 10'-6" X 3 1/2 OD	1
17	102423	TUBE 2ml-THREADLOCKER VIBRA-TITE 12102	1
18	988278	PIN, THREADED, 5/8" OD X 4"	2
19	994825	PARTS CARTON (2) ANTI-WRAP 3 1/2" 102422	2
20	300001537	LABEL "TOP OF SURFACE" #2B3794D (4X1) R/B	1
21	116022	LABEL WARNING - PLAYGROUND - ENGLISH	1
22	HW994823-1	HRDW PKG AW7147352 S1/1	1
200203542 ARCH SWING FRAME 3.5" SHORT BAY			
ITEM	CODE	DESCRIPTION	QTY
23	983060*	ARCHED SWING SUPRT ASY, PTD	2
24	991493*	TOP RAIL 7'-4" X 3 1/2" O.D.	1
25	994825	PARTS CARTON (2) ANTI-WRAP 3 1/2" 102422	2
26	300001537	LABEL "TOP OF SURFACE" #2B3794D (4X1)R/B	1
27	200182848	LABEL ID/AGE 2-12/18MOS.-12YRS.	1
28	200182851	LABEL COVER CLEAR LAMINATE	1
29	999046*	PARTS CARTON - TOUCH-UP PAINT-SWG LEG	1
30	999047*	PARTS CARTON - TOUCH-UP PAINT-TOP RAIL	1
31	102423	TUBE 2ml-THREADLOCKER VIBRA-TITE 12102	1
32	988278	PIN, THREADED, 5/8" OD X 4"	2
33	200182854	STICKER CIRCLE, AGE 2YR - 12YR	1
34	116022	LABEL WARNING - PLAYGROUND - ENGLISH	1
35	2001828554	STICKER CIRCLE, AGE 18M - 12YR	1
36	HW994823-1	HRDW PKG AW7147352 S1/1	1

Arch Swing Frames with Anti-Wrap Swing Hangers

200203543 ARCH SWING FRAME 3.5" SHORT BAY ADD-ON			
ITEM	CODE	DESCRIPTION	QTY
37	991493*	TOP RAIL 7'-4" X 3 1/2" O.D.	1
38	983079*	ARCHED SWING SUPPORT, DBL RECEIVER, PTD	1
39	994825	PARTS CARTON (2) ANTI-WRAP 3 1/2" 102422	1
40	102423	TUBE 2mi-THREADLOCKER VIBRA-TITE 12102	1
41	988278	PIN, THREADED, 5/8" OD X 4"	2
42	116022	LABEL WARNING - PLAYGROUND - ENGLISH	1
43	300001537	LABEL "TOP OF SURFACE" #2B3794D (4X1)R/B	1
44	HW994823-1	HRDW PKG AW7147352 S1/1	1
PARTS CARTON (2) ANTI-WRAP 3 1/2" - PN 994825**			
45	102422	ANTI WRAP SWING HANGER 3 1/2" TOP RAIL	2
46	104403	BOLT 1/4-14 X 1 1/4 HEX WASHER TEK	8
47	102424	5/16" HEX BIT W/HOLE (TAMPER RESISTANT)	1
48	SP2008898	LOCTITE 271 RED, .02 OZ (.5ML) DISP TUBE	1
HRDW PKG AWT147352 S1/1** HW994823-1			
ITEM	CODE	DESCRIPTION	QTY
49	102424	5/16" HEX BIT W/HOLE (TAMPER RESISTANT)	1
50	104052	BOLT 3/8-16 X 5/8 BHCS 6 LOBE 18-8 SS	4
51	104480	BIT 6 LOBE T-45 FOR 3/8 BOLTS	1
52	117003	WASHER 5/16 FLAT 18-8 SS	4
(**)	NOTE: USED FOR <i>ALL</i> MODELS		

Arch Swing Frames with Anti-Wrap Hangers

1800046

Arch Swing Frames with Anti-Wrap Swing Hangers

I800046
Model 200203507
Arch Swing Frame 3.5" Single Bay

Top View

Footing Layout

18" DIA. X 18" DEEP FOOTING (4) REQ'D

Detailed description: This section shows the specifications and components for the Arch Swing Frame 3.5" Single Bay. It includes a top view diagram of the frame with four hangers, a footing layout diagram showing four circular footings arranged in a 2x2 grid with a 11-foot width and 3-foot-6-inch height, and a 3D perspective view of the frame. The frame consists of two vertical legs and a horizontal top bar with four hangers. The footings are labeled as 18" DIA. X 18" DEEP FOOTING (4) REQ'D.

I800046
Model 200203508
Arch Swing Frame 3.5" Add-On

Top View

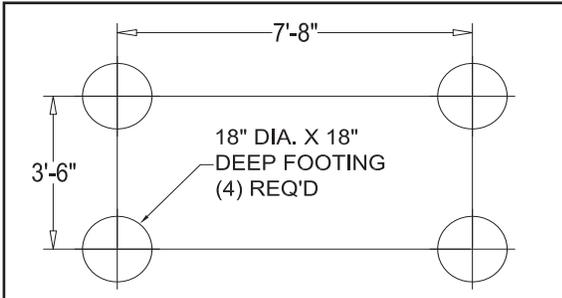
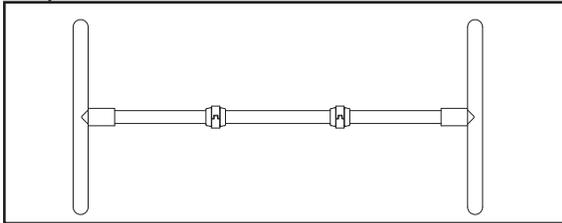
Footing Layout

18" DIA. X 18" DEEP FOOTING

Detailed description: This section shows the specifications and components for the Arch Swing Frame 3.5" Add-On. It includes a top view diagram of the frame with four hangers, a footing layout diagram showing four circular footings arranged in a 2x2 grid with a 11-foot width and 3-foot-6-inch height, and a 3D perspective view of the frame. The frame consists of one vertical leg and a horizontal top bar with four hangers. The footings are labeled as 18" DIA. X 18" DEEP FOOTING.

Arch Swing Frames with Anti-Wrap Swing Hangers

Top View

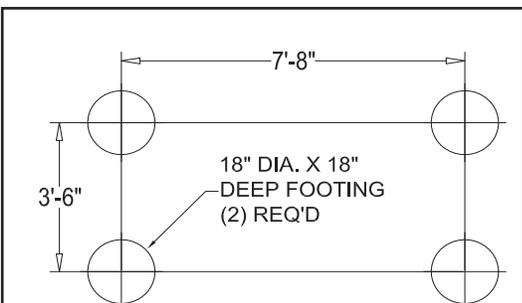
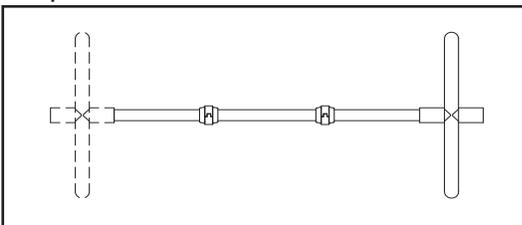


Footing Layout

1800046
Model 200203542
Arch Swing Frame 3.5" Short Bay



Top View



Footing Layout

1800046
Model 200203543
Arch Swing Frame 3.5" Short Bay Add-On



Arch Swing Frames with Anti-Wrap Hangers

1800046

Arch Swing Frames with Anti-Wrap Swing Hangers

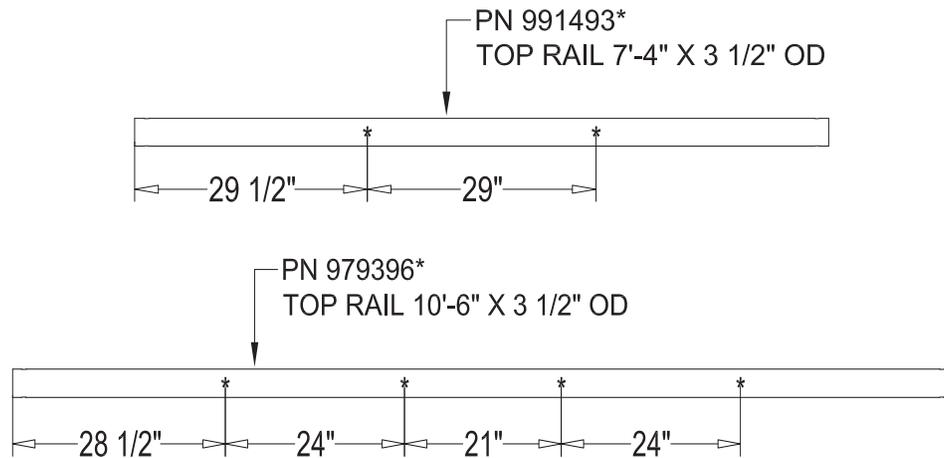
STEP 1 DIG FOOTINGS

- 1a. Dig footings per *Footing Layout*, Construction Drawings and *Footing Details installation*. Place blocking material in bottom of footing holes.

Note: Do not pour concrete for footings until model is fully assembled per instructions and braced in position, leveled and plumbed.

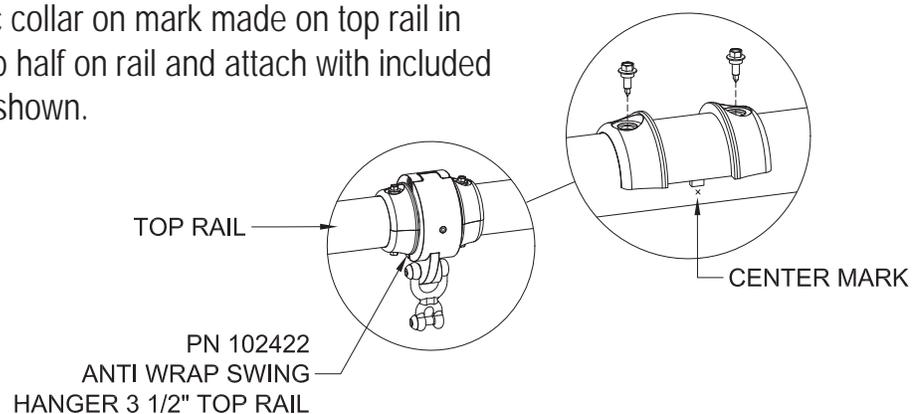
STEP 2 MARK TOP RAIL FOR HANGER PLACEMENT

- 2a. Mark top rails for anti-wrap swing hanger placement. Measure from end of top rail to center of anti-wrap swing hanger.



STEP 3 ASSEMBLE AND ATTACH ANTI-WRAP WING HANGERS

- 3a. Locate anti-wrap swing hanger. Remove H-shackle using a wrench with pin hole to remove tamper proof bolt and set bolt aside. Open hanger into halves and remove plastic collar.
- 3b. Center plastic collar on mark made on top rail in step 2; set top half on rail and attach with included hardware as shown.

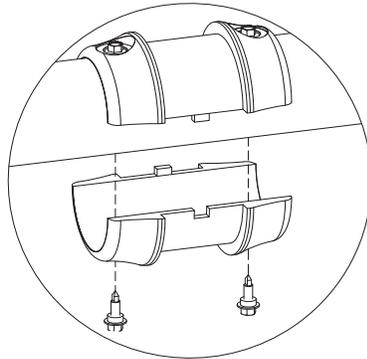


Arch Swing Frames with Anti-Wrap Swing Hangers

STEP 3 ASSEMBLE AND ATTACH ANTI-WRAP WING HANGERS cont.

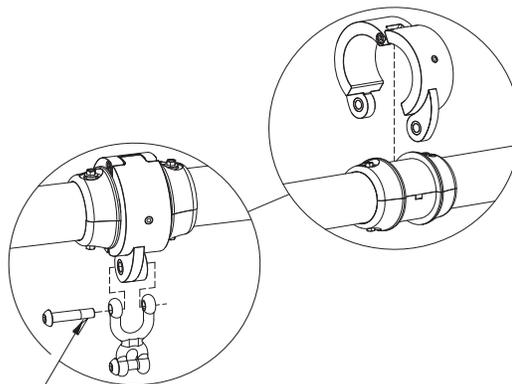
3c. Repeat with bottom collar half.

Note: Plastic collar halves will NOT COMPLETELY MATE on top rail. Align tab with notch and ensure gap between collar halves is equal on both sides of top rail.



3d. Place steel hanger around plastic collar; apply Vibra-Tite Threadlocker to end of tamper proof bolt; attach H-shackle to hanger via tamper proof bolt; tighten all hardware.

Note: Using a grease gun, place a sufficient amount of all purpose grease into grease fitting, to allow hanger to swing freely.



PN 102423
TUBE 2ml-THREADEDLOCK
VIBRA-TITE 12102

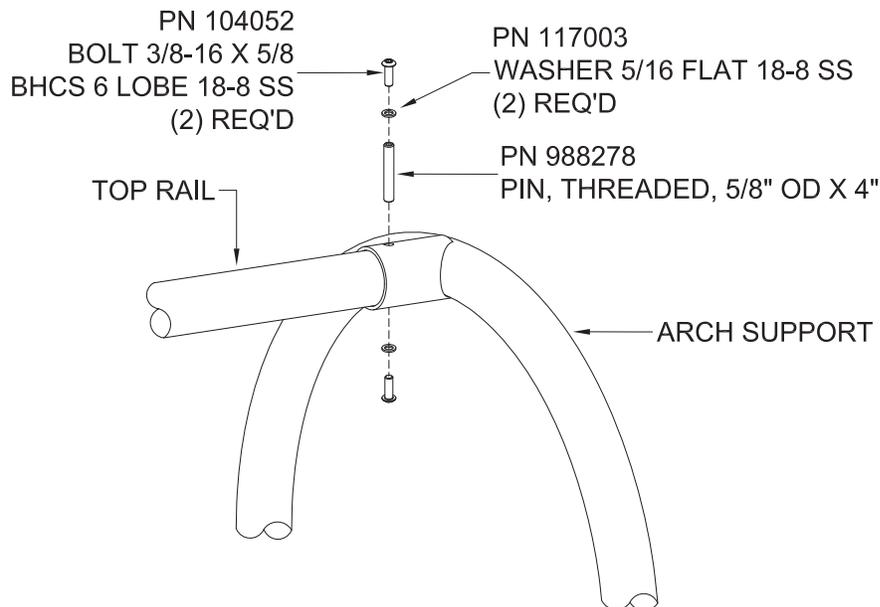
Arch Swing Frames with Anti-Wrap Swing Hangers

STEP 4 FASTEN TOP RAIL TO ARCHES

- 4a. Set arches on ground with stubs facing each other. Firmly seat ends of top rail within each arch stub, aligning mating bolt holes. Ensure that weldments for clevises are on underside of top rail assembly, for later attachment of swing chains and seats.

Install Tip: Once top rail is in stub, all four (4) bolt holes must be aligned. If necessary for alignment, run a 11/16" drill bit through all four (4) holes. Do not allow bit to wander, creating a larger hole.

- 4b. Install a bolt and washer in one end of threaded pin and tap through top rail and arch stub, then install a bolt and washer on opposite side. Repeat at other end of top rail.



STEP 5 SET SWING FRAMES INTO FOOTINGS

- 5a. Lift frame assembly and set in footings. Ensure that arches are plumb and that the top rail is level. Block in position so that bottom surface of top rail is **96"** (8'-0") from finished grade.

Arch Swing Frames with Anti-Wrap Swing Hangers

STEP 6 POUR CONCRETE

- 6a. Rope off area to prevent access and pour concrete.
- 6b. Install age appropriate labels per "Placement of Age Appropriate Labels" located in the *Installation Manual*.

Important Note: Do not hang swing chains and seats until concrete has fully cured per concrete manufacturer's instructions (usually 72 hours) and protective surfacing is installed to avoid risk of injury to users and damage to play equipment.

FINAL STEP

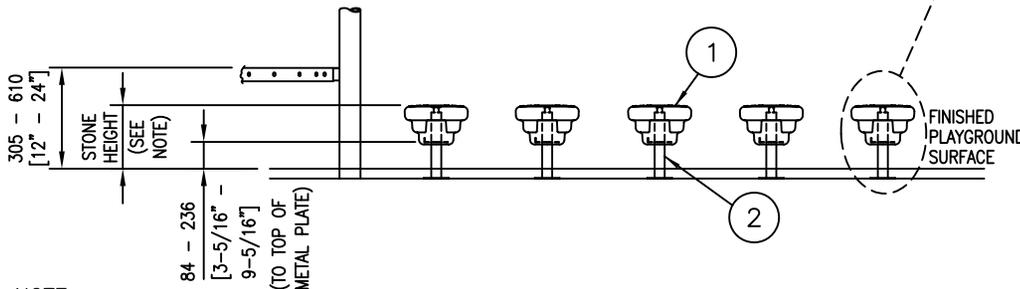
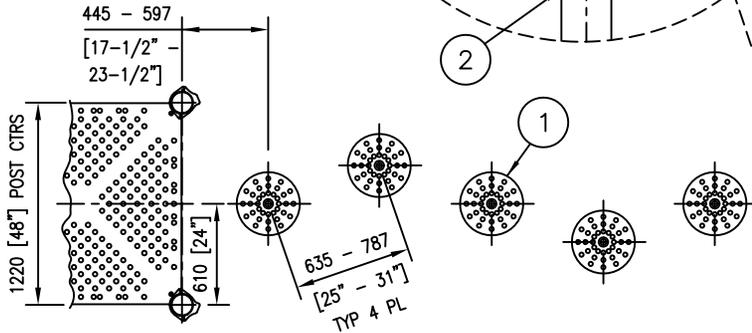
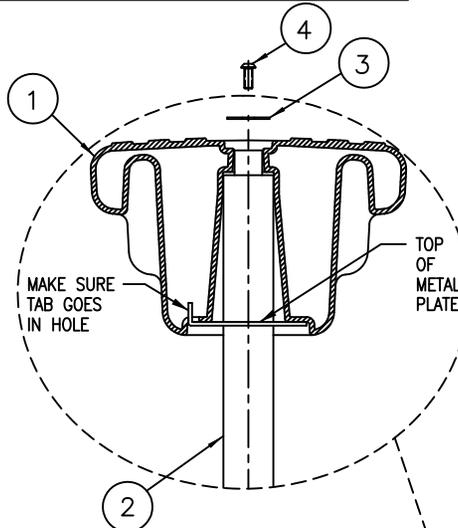
Proceed with *Final Assembly installation*.



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.

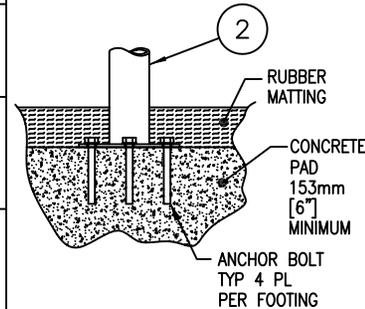
STEPS

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

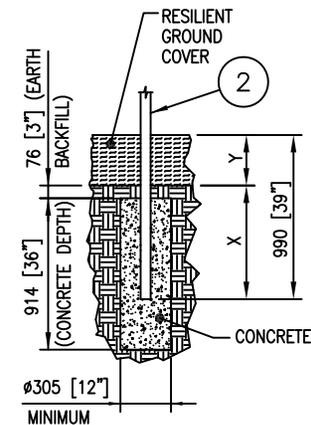
FASTENERS

FINISH: STAINLESS STEEL (METRIC).

Surface Mount Footing Detail



Inground Footing Detail



X PLUS Y = 990mm



KID RIDERS C-SPRING

R800005B

Sheet 1 of 3

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. Once the type of footing is determined, refer to Sheet 2 for information on how to prepare it. 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 – Surface Mount Footing

1. Prepare footing hole as shown on page 2 (or prepare to pour a concrete pad). Pre-assemble the J-Anchors (Item 17) to the template (Item 16) as shown in DETAIL 1. Pour footing. Before the footing has cured to a hardened state, press the J-Anchors into the concrete noting the orientation. Let the concrete finish curing (minimum of 48 hours). Remove the washers and nuts and then the template.
2. Place C-Spring on the front anchor bolt and then install the strap and hardware as shown in DETAIL 2.
3. Attach the kid rider event to the C-Spring as shown on page 3 of this installation instruction.
4. Check all hardware for tightness and install resilient surfacing.

Installation Instruction – Inground Footing

1. Prepare inground footing hole as shown on page 2. Place Inground Tube (Item 2A) into the footing hole and prop up (NOTE: twist the tube to ensure that the orientation of the spring animal is as desired. If a line were drawn between the middle holes of the top plate, that line would be the direction the event would face. Complete the footing. Let the concrete cure (minimum of 48 hours).
2. Place C-Spring onto the top plate of the inground footing and attach the single front bolt as shown in DETAIL 1. Next install the strap and hardware also as shown in DETAIL 1.
3. Attach the kid rider event to the C-Spring as shown on page 3 of this installation instruction.
4. Check all hardware for tightness and install resilient surfacing.

- ATV BLU/YLW W/C-SPRING – 200200447
- ATV RED/BLU W/C-SPRING – 200200448
- BULLDOZER YLW/BLU W/C-SPRING – 200200449
- WHALE BLU W/C-SPRING – 200200450
- WHALE RED/TAN W/C-SPRING – 200200451

Item	Code	Description	Qty.
1A	200149041	ATV ASSY BRW/BLU F/C-SPRING	1
1B	200149042	ATV ASSY BLU/YLW F/C-SPRING	1
2	200149043	BULLDOZER ASSY YLW/BLU F/C-SPRING	1
3A	200149044	WHALE ASSY RED/TAN F/C-SPRING	1
3B	200149045	WHALE ASSY BLU/BLU F/C-SPRING	1
4	200149035	TUBE MT. F/KR C-SPRING ING BLACK	1
5	200149521	KIT F/KR SURF MT. C-SPRING	1
6	200183517	SPRING "C" F/SPRING RIDERS BLACK/STKR	1
7	200149520	HDWR BAG F/KR W/C-SPRING	1

HDWR BAG F/KR W/C-SPRING 200149520

Item	Code	Description	Qty.
8	200002096	WASHER FLAT M10 34 OD X 11 ID X 3MM SS	16
9	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	7
10	200149033	STRAP F/C-SPRING MOUNT BLK-PARTS ROOM	1
11	200002150	SCREW MACH BUTTON HEAD M10 X 1.50 X 55MM	2
12	200097726	SCREW MACH BUTTONHEAD M10 X 1.5 X 38MM	1
13	200002030	SCREW MACH BUTTON HEAD M10 X 1.50 X 30MM	4
14	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	4

KIT F/KR SURF MT. C-SPRING 200149521

Item	Code	Description	Qty.
15	200001938	NUT HEX M10 X 1.50 S.S.	3
16	200149522	TEMPLATE STEEL F/C-SPRING	1
17	200001780	BOLT ANCHOR BENT M10 X 1.50 X 250MM (SS)	3
18	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	3

How Much Concrete?

Volume of concrete required for footings:

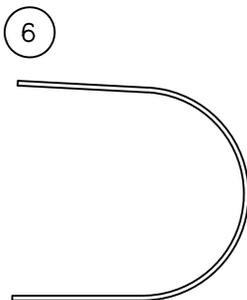
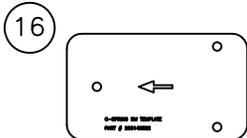
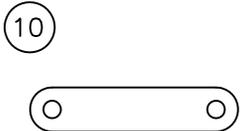
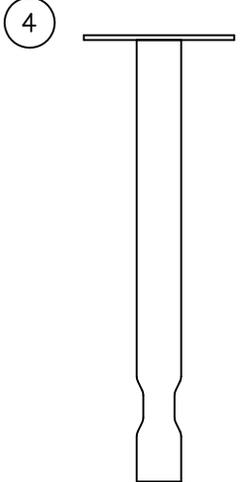
$$= 0.067 \text{ M}^3 \times \left\{ \frac{\text{Concrete Depth (mm)}}{915} \right\} \times \text{No. of Footing Holes} = \text{M}^3$$

$$= 0.087 \text{ Yard}^3 \times \left\{ \frac{\text{Concrete Depth (in)}}{36} \right\} \times \text{No. of Footing Holes} = \text{Yard}^3$$

NOTES:

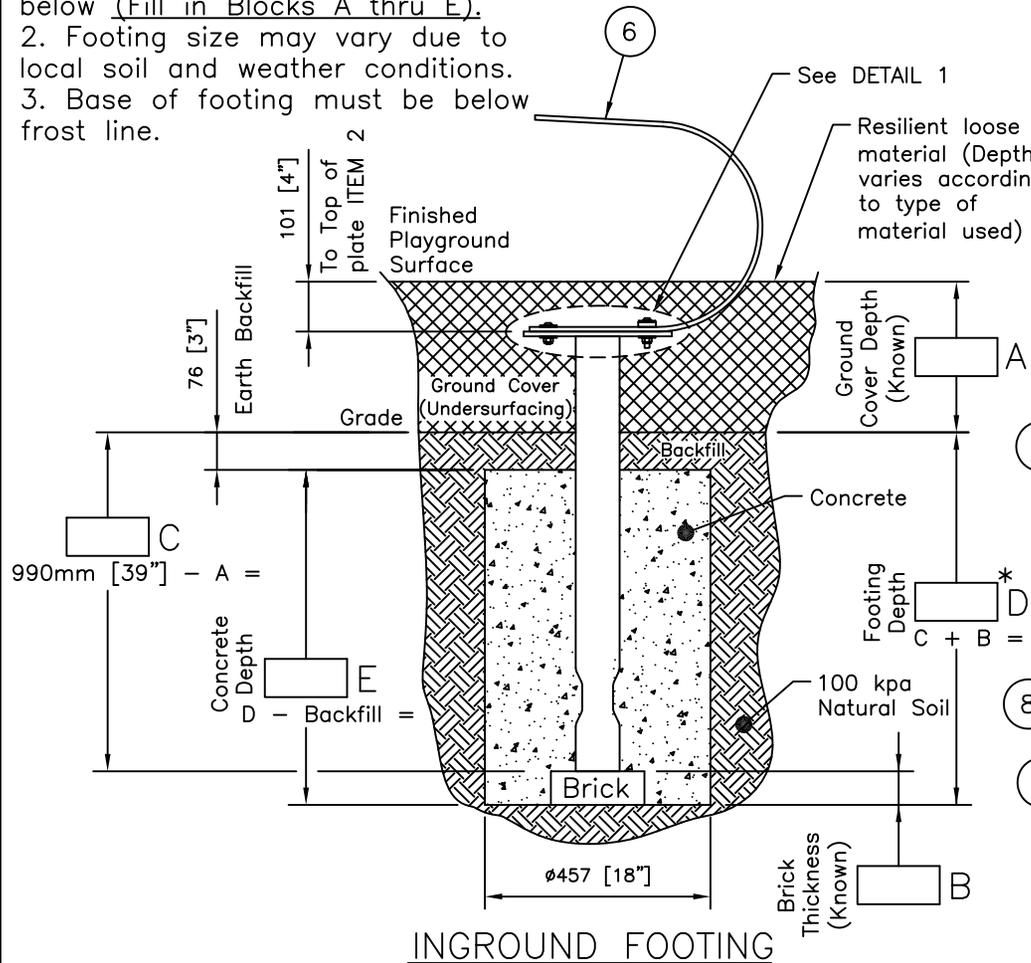
1. To calculate cubic feet, multiply cubic yard by 27.
2. 94 lbs. of concrete = 1 cubic foot.

AUTHORIZED BY: 10NOV17
Tracy Archer

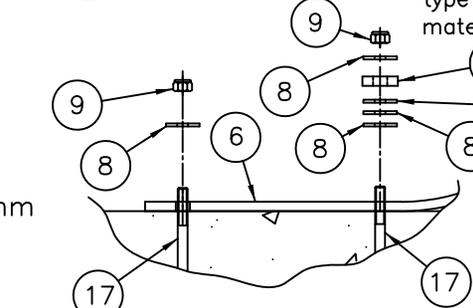
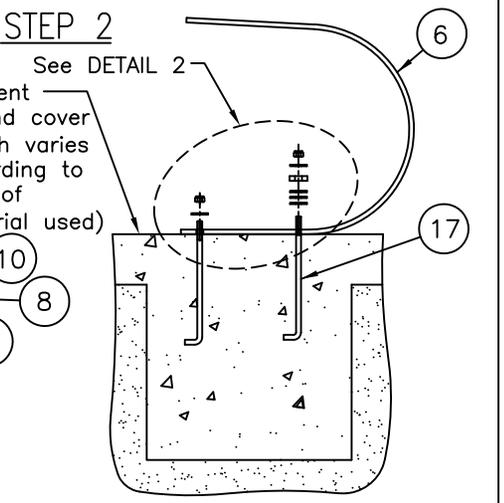
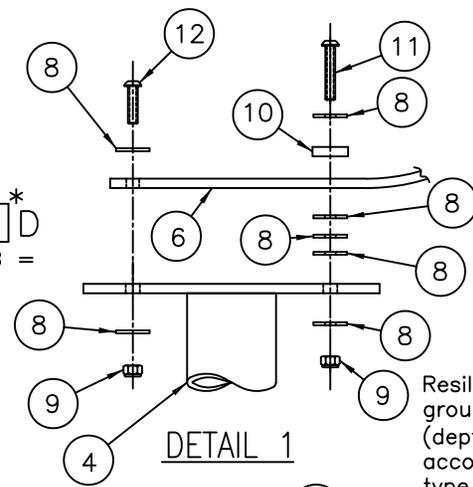
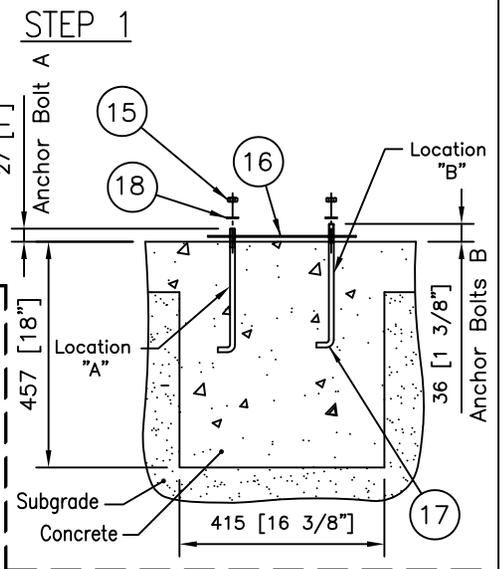
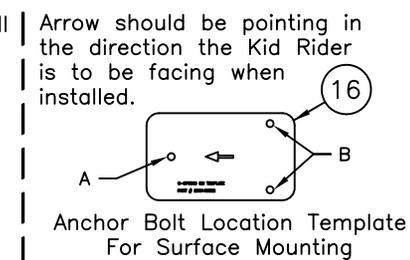


1. Complete the calculation sheet below (Fill in Blocks A thru E).
2. Footing size may vary due to local soil and weather conditions.
3. Base of footing must be below frost line.

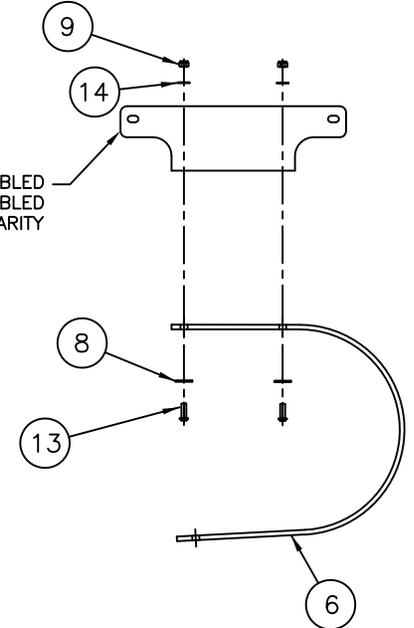
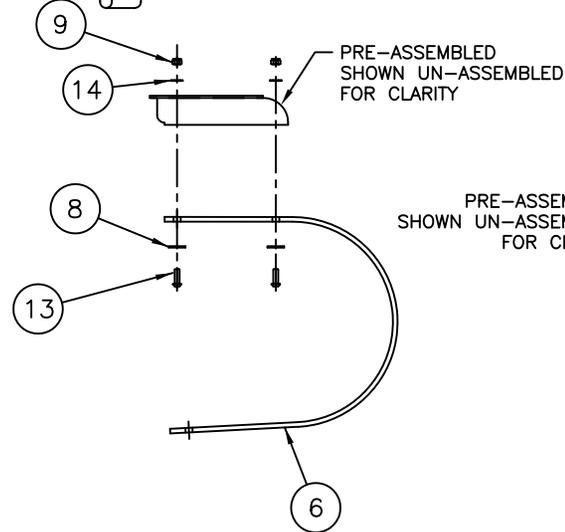
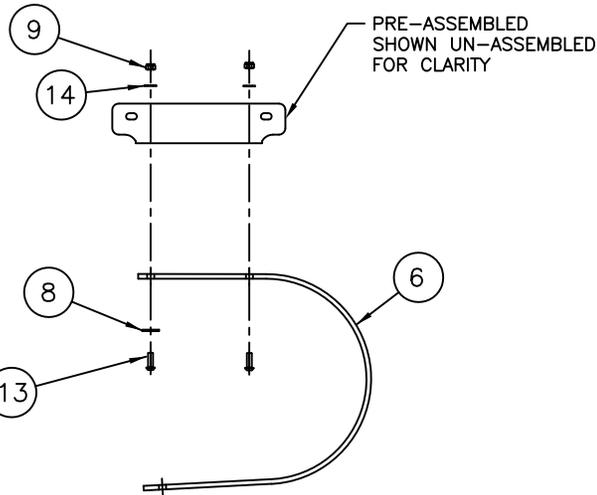
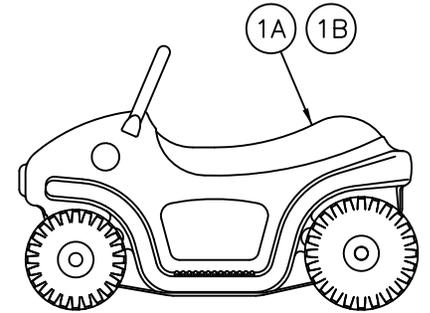
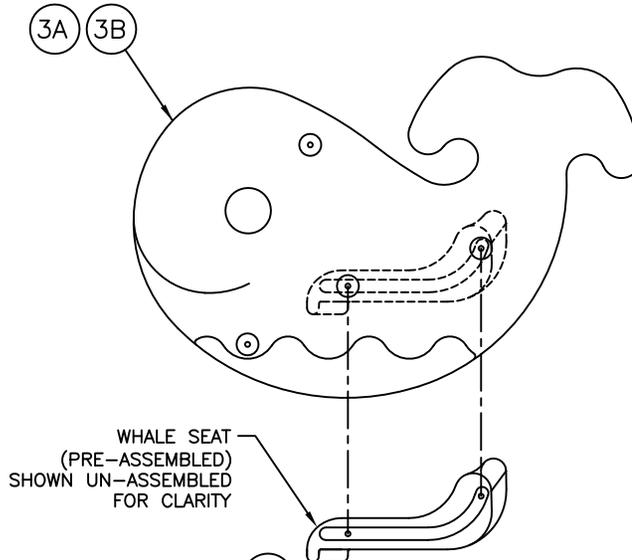
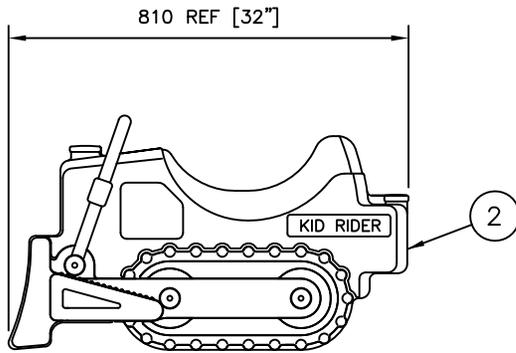
Some hardware may be left over after assembly, please keep the hardware in case replacements are necessary.



- 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).



DETAIL 1 DETAIL 2 SURFACE MOUNT FOOTING



Make sure open part of C-Spring faces the same direction as front of RIDER.





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

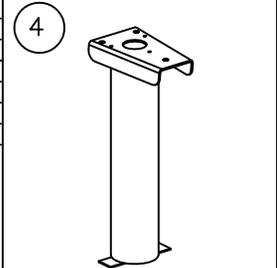
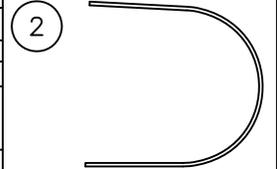
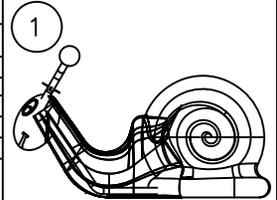
Item	Code	Description	Qty.
6	993161GV	PINCH PLATE-C SPRING RIDERS GV 6-1/16"	1
7	HW993176	HRDW PKG 963 S1/1	1

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?

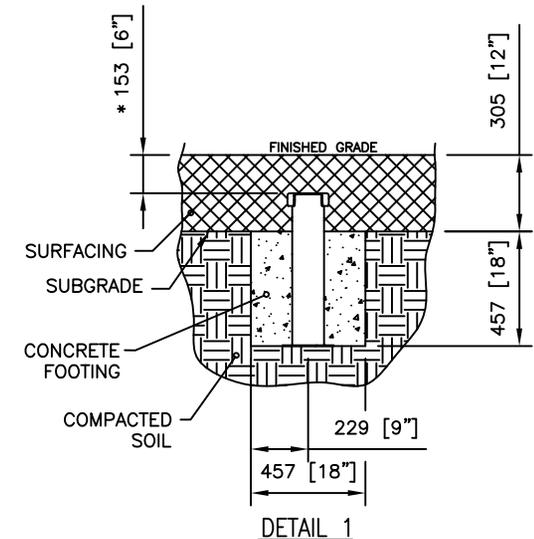
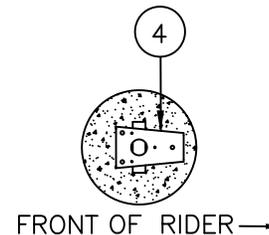
$$\text{Volume of concrete required for footings} = 0.067 \text{ M} \times \frac{\text{Concrete Depth (mm)}}{915} \times \text{No. of Footing Holes} = \text{M}^3$$

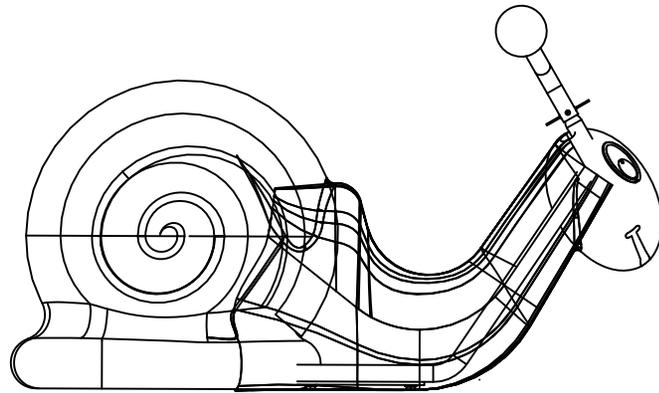
$$= 0.087 \text{ Yard} \times \frac{\text{Concrete Depth (in)}}{36} \times \text{No. of Footing Holes} = \text{Yard}^3$$

NOTES:

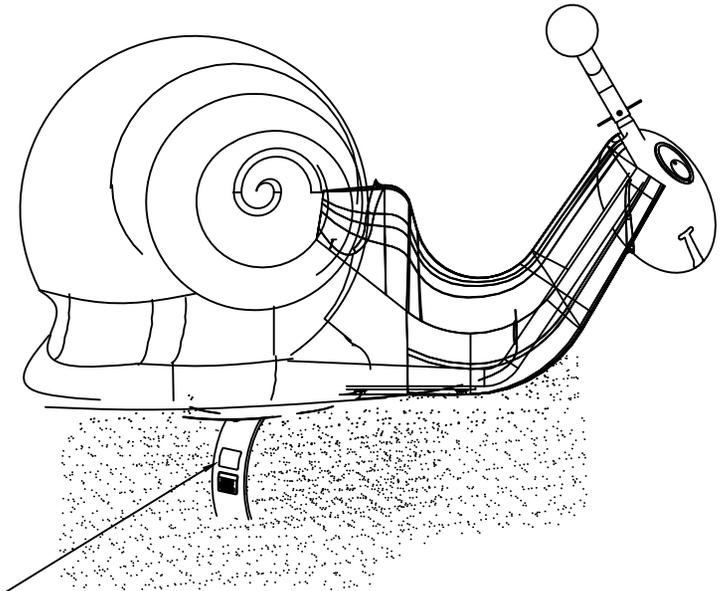
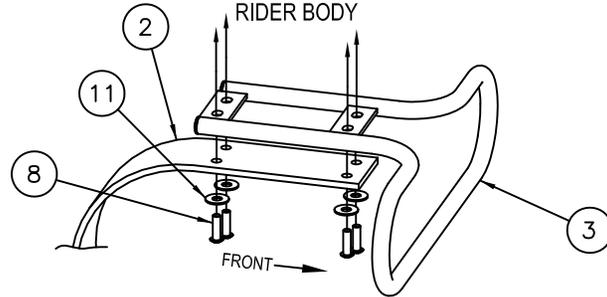
1. To calculate cubic feet, multiply cubic yard by 27.
2. 94 lbs. of concrete = 1 cubic foot.

FOOTING LAYOUT FOR SNAIL

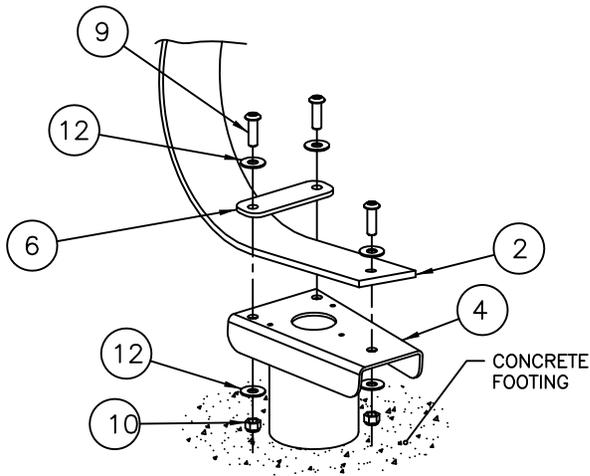




BOTTOM OF
RIDER BODY



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.





Project Number: R0324200140

PlayArea: Additional Items |

Project Name:

Project Location:

Sales Representative:

Northland Recreation
10085 Bridgewater Bay
Woodbury, MN 55129
2623138636

Installation Instructions

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

Date: 2/19/2020 12:00:00 AM



PRODUCT IDENTIFICATION LABEL

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

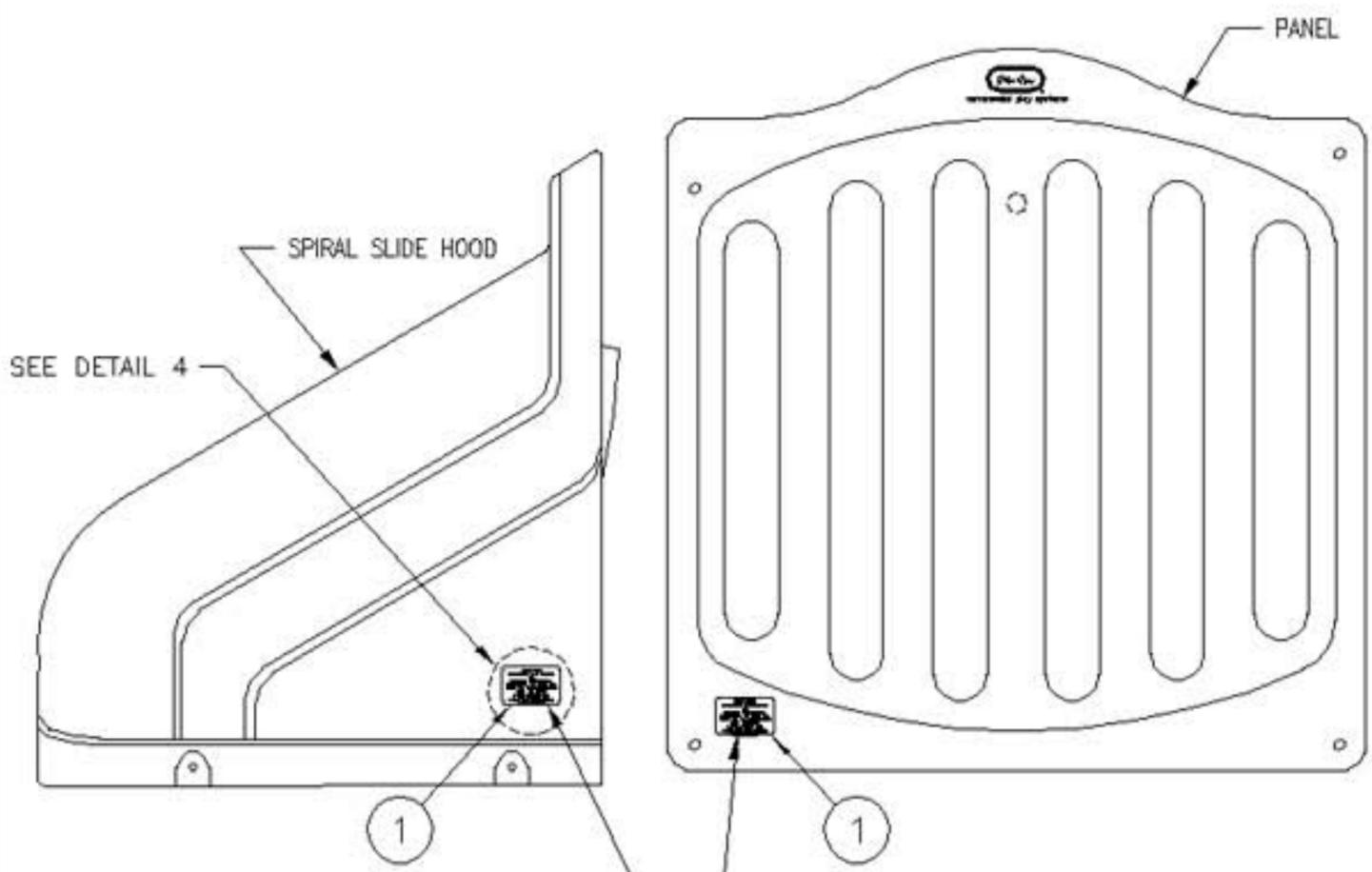
Application
This product identification label is an important part of your structure. It will provide key information for replacement parts and any warranty issues.

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.

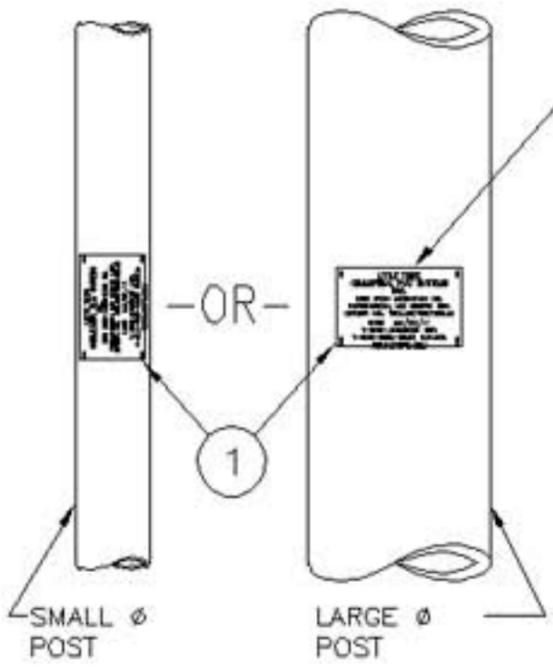
LITTLE TIKES
COMMERCIAL PLAY SYSTEMS
INC.
ONE IRON MOUNTAIN DR.
FARMINGTON, MO 63640 USA
ORDER NO. 123456789012345
DATE MM/DD/YY
1-800-325-8828 USA
1-800-265-9953 CANADA
WWW.LTTIKES.COM



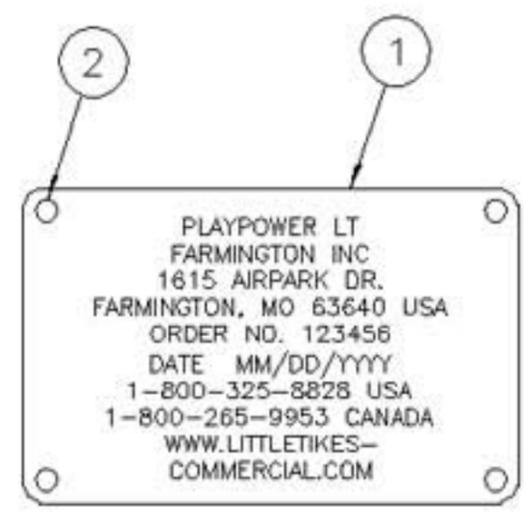
DETAIL
1

DETAIL
2

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



DETAIL
3



DETAIL
4

1

2



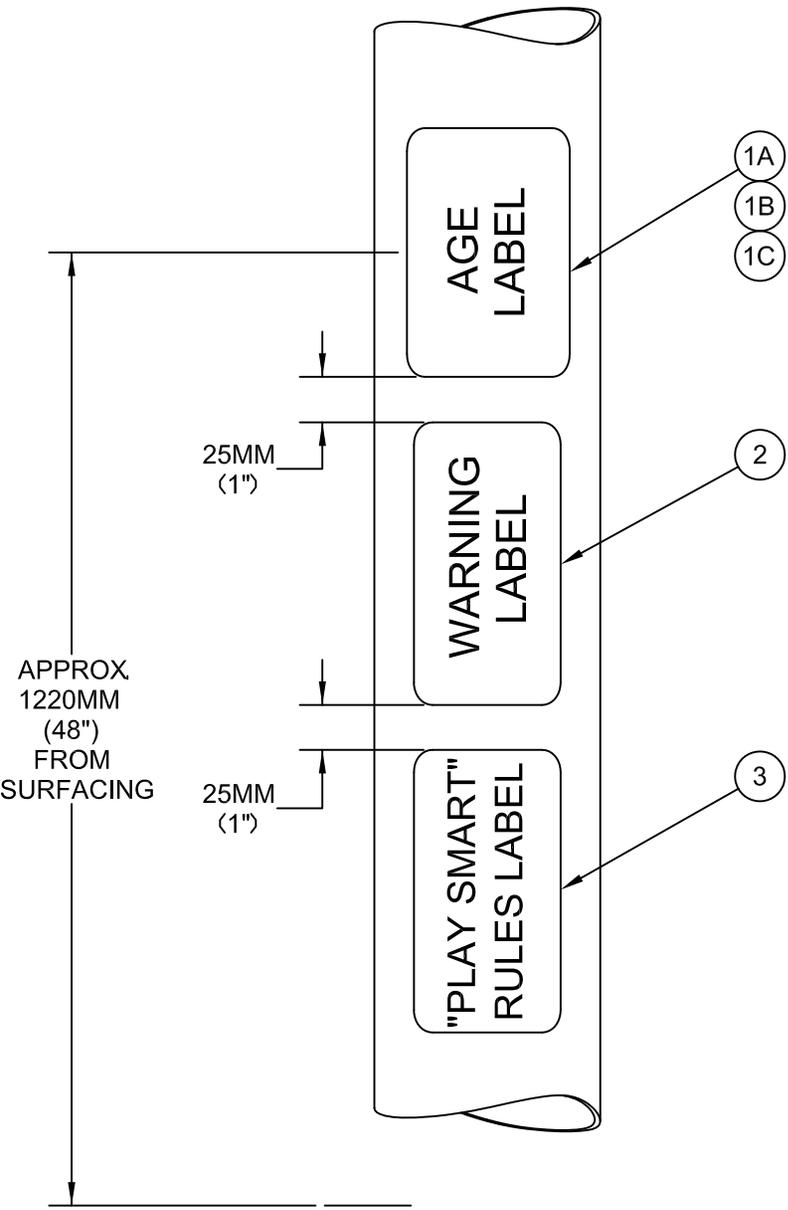


commercial play systems

AGE APPROPRIATE LABELS

1000005B

Sheet 1 of 1



AGE APPROPRIATE LABEL (2 TO 5 YRS) 200104304

Item	Code	Description	Qty.
1A	200104304	LABEL AGE APP. (2 TO 5 YRS.)	1
2	116022	LABEL WARNING - PLAYGROUND - ENGLISH	1
3	116099	LABEL, PLAY SMART RULES	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.

AUTHORIZED BY: 03JUL18
TRACY ARCHER

1A



1B



1C





Project Number: R0324200140

PlayArea: RiskSign_Included | Park Service

Project Name:

Project Location:

Sales Representative:

Northland Recreation
10085 Bridgewater Bay
Woodbury, MN 55129
2623138636

Installation Instructions

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

Date: 2/19/2020 12:00:00 AM

Risk Management Sign

IMPORTANT! The Risk Management 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>
787	Risk Management Sign - English
787FR	Risk Management Sign - French
787SP	Risk Management Sign - Spanish



Note:

- *English version shown.*
- *An (*) by part numbers indicate: Color Code Required.*

Risk Management Sign

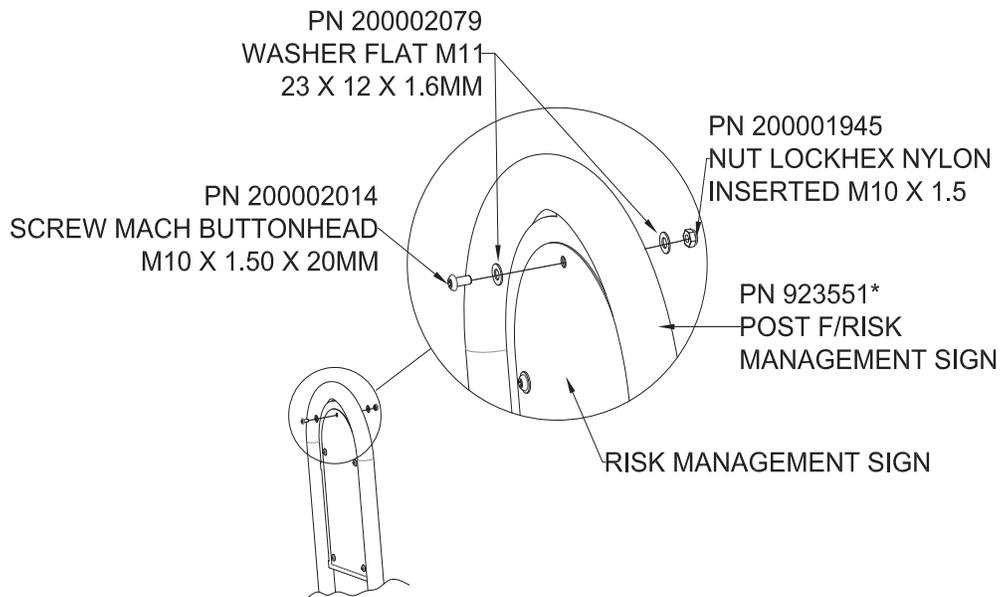
STEP 1 ATTACH AGE-APPROPRIATE STICKER

1a. Attach age-appropriate sticker to sign, in location, as shown below.



STEP 2 ATTACH SIGN TO POST FRAME

2a. Attach sign as shown below, in five (5) locations.

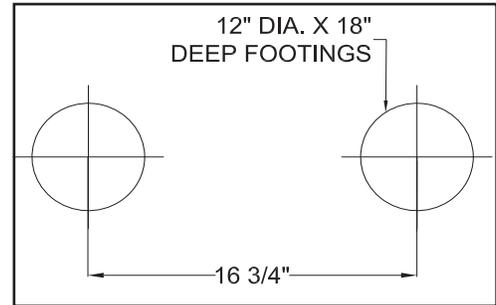


Risk Management Sign

STEP 3 DIG FOOTINGS

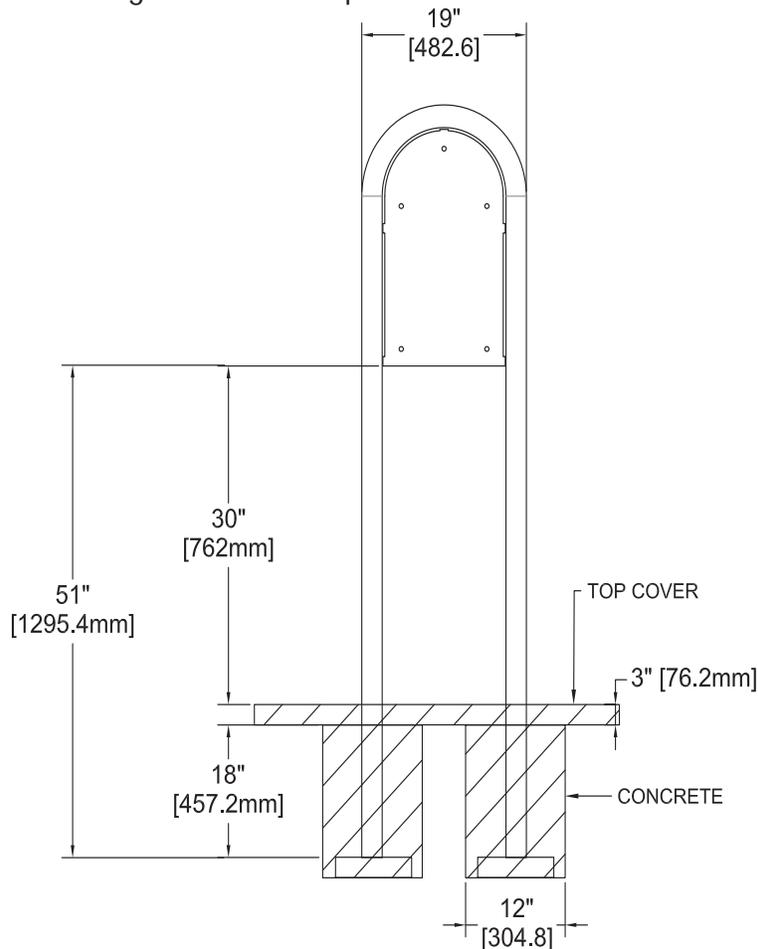
3a. Dig footings per *Footing Layouts*, *Construction Drawings*, and *Footing Details* installation.

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.



STEP 4 SET SIGN IN FOOTINGS - OUTSIDE PLAY AREA

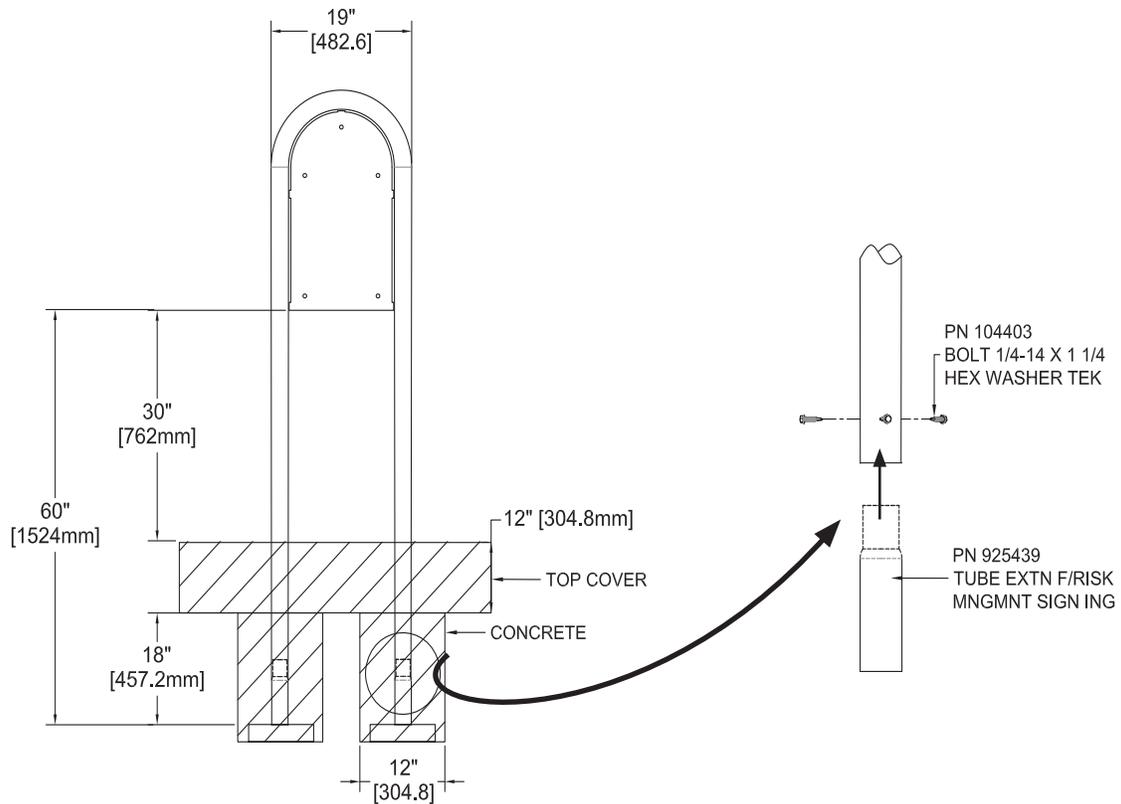
- 4a. Place a brick in the bottom of each hole so the sign will rest on the brick when inserted.
- 4b. Set risk management sign in footings per *Construction Drawings* pour concrete; plumb sign in footings and brace in position until concrete is cured.



Risk Management Sign

STEP 5 SET SIGN IN FOOTINGS - INSIDE PLAY AREA

- 5a. Place a brick in the bottom of each hole so the sign will rest on the brick when inserted.
- 5b. Insert the 10" tube extension into the risk management sign; use a rubber mallet, if needed, to swage the extensions for a tight fit; secure with Tek screws.
- 5c. Set the sign in the footings per Construction Drawings and 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.

Risk Management Sign

Bill of Material

Model 787

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	923551*	POST F/RISK MANAGEMENT SIGN
1	923560	PC F/787 RISK MNGMT ENGLISH
1	925441	PARTS CARTON RISK MNGMNT SIGN EXTN
1	HW923551-1	HRDW PKG RISK MANAGEMENT SIGN S1/1

Parts Carton 925441

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
2	925439	TUBE EXTN F/RISK MNGMNT SIGN ING
6	104403	BOLT 1/4-14 X 1 1/4 HEX WASHER TEK

HW923551-1

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
5	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM
10	200002079	WASHER FLAT M11 23 X 12 X 1.6MM
5	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5

Model 787FR

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	923551*	POST F/RISK MANAGEMENT SIGN
1	923558	PC F/787FR RISK MNGMT FRENCH
1	925441	PARTS CARTON RISK MNGMNT SIGN EXTN
1	HW923551-1	HRDW PKG RISK MANAGEMENT SIGN S1/1

Parts Carton 925441

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
2	925439	TUBE EXTN F/RISK MNGMNT SIGN ING
6	104403	BOLT 1/4-14 X 1 1/4 HEX WSHER TEK

HW923551-1

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
5	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM
10	200002079	WASHER FLAT M11 23 X 12 X 1.6MM
5	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5

Risk Management Sign

Bill of Material cont.

Model 787SP

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	923551*	POST F/RISK MANAGEMENT SIGN
1	923559	PC F/787SP RISK MNGMT SPANISH
1	925441	PARTS CARTON RISK MNGMNT SIGN EXTN
1	HW923551-1	HRDW PKG RISK MANAGEMENT SIGN S1/1

Parts Carton 925441

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
2	925439	TUBE EXTN F/RISK MNGMNT SIGN ING
6	104403	BOLT 1/4-14 X 1 1/4 HEX WSHR TEK

HW923551-1

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
5	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM
10	200002079	WASHER FLAT M11 23 X 12 X 1.6MM
5	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5

APPENDIX A:

Hillington Green Park

**PLAYGROUND EQUIPMENT MANUFACTURER'S
INSTALLATION INSTRUCTIONS**



Project Number: R0324200199

PlayArea: PlayArea_1 | Traditional Play

Project Name:

Project Location:

Sales Representative:

Northland Recreation
10085 Bridgewater Bay
Woodbury, MN 55129
2623138636

Hillington Green

Installation Instructions

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

Date: 3/3/2020 12:00:00 AM



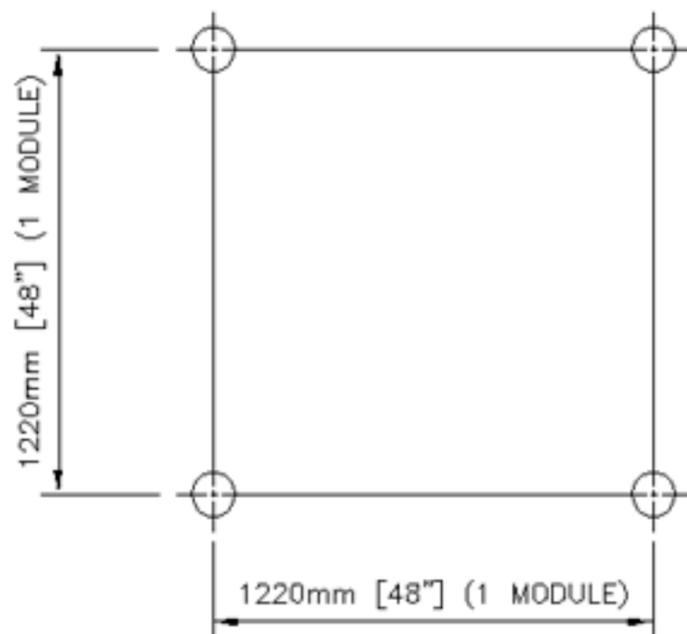
Project Number: R0324200199
PlayArea: PlayArea_1 | KidBuilders
Project Name:
Project Location:
Sales Representative:
Northland Recreation
10085 Bridgewater Bay
Woodbury, MN 55129
2623138636

Installation Instructions

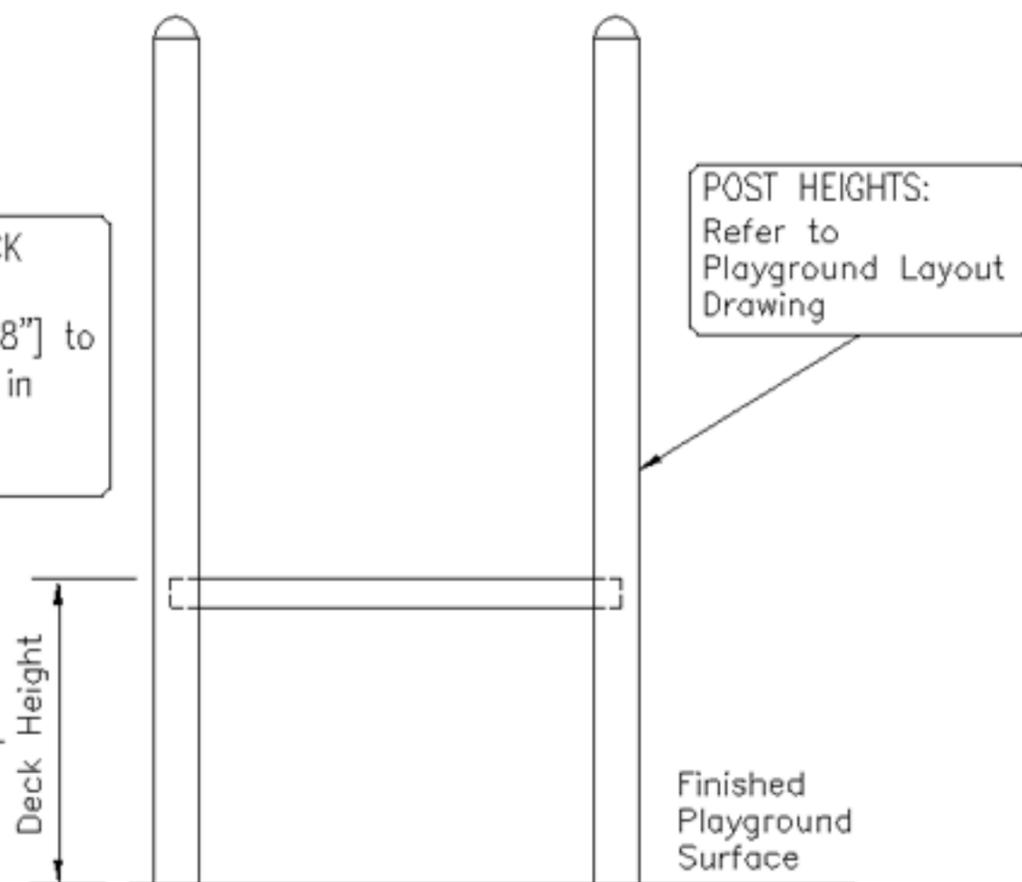
Please, read all information in this manual before starting to install your equipment.

Date: 3/3/2020 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

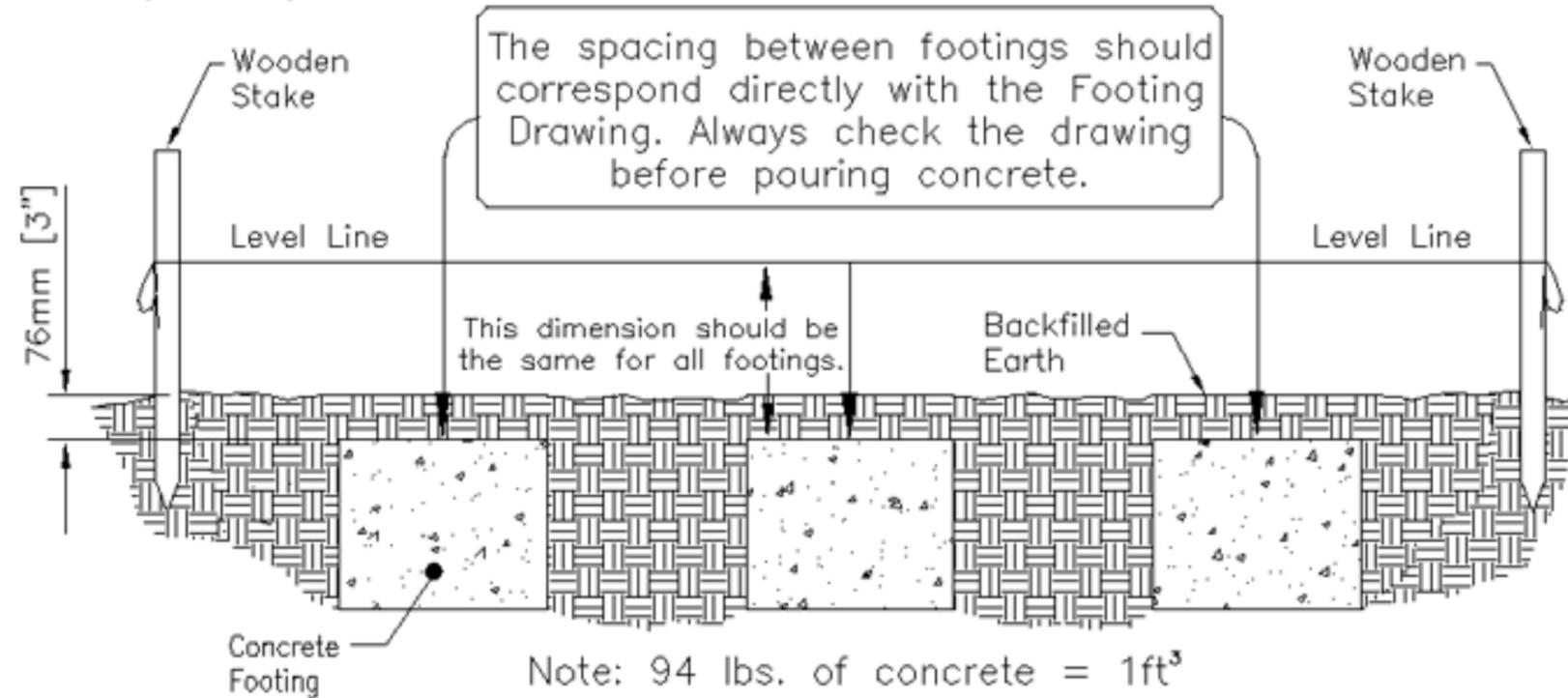
THE ORDER OF ASSEMBLY:

- 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 = 1ft³
207 grams = 0.041m³

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.

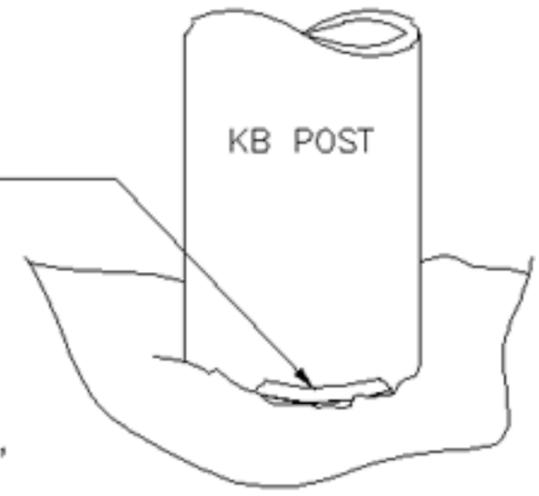
Do not place this label in a high traffic area or in a location of excessive wear. If the label becomes illegible, destroyed, or removed, it is necessary for the operator to replace the label as soon as possible.

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.

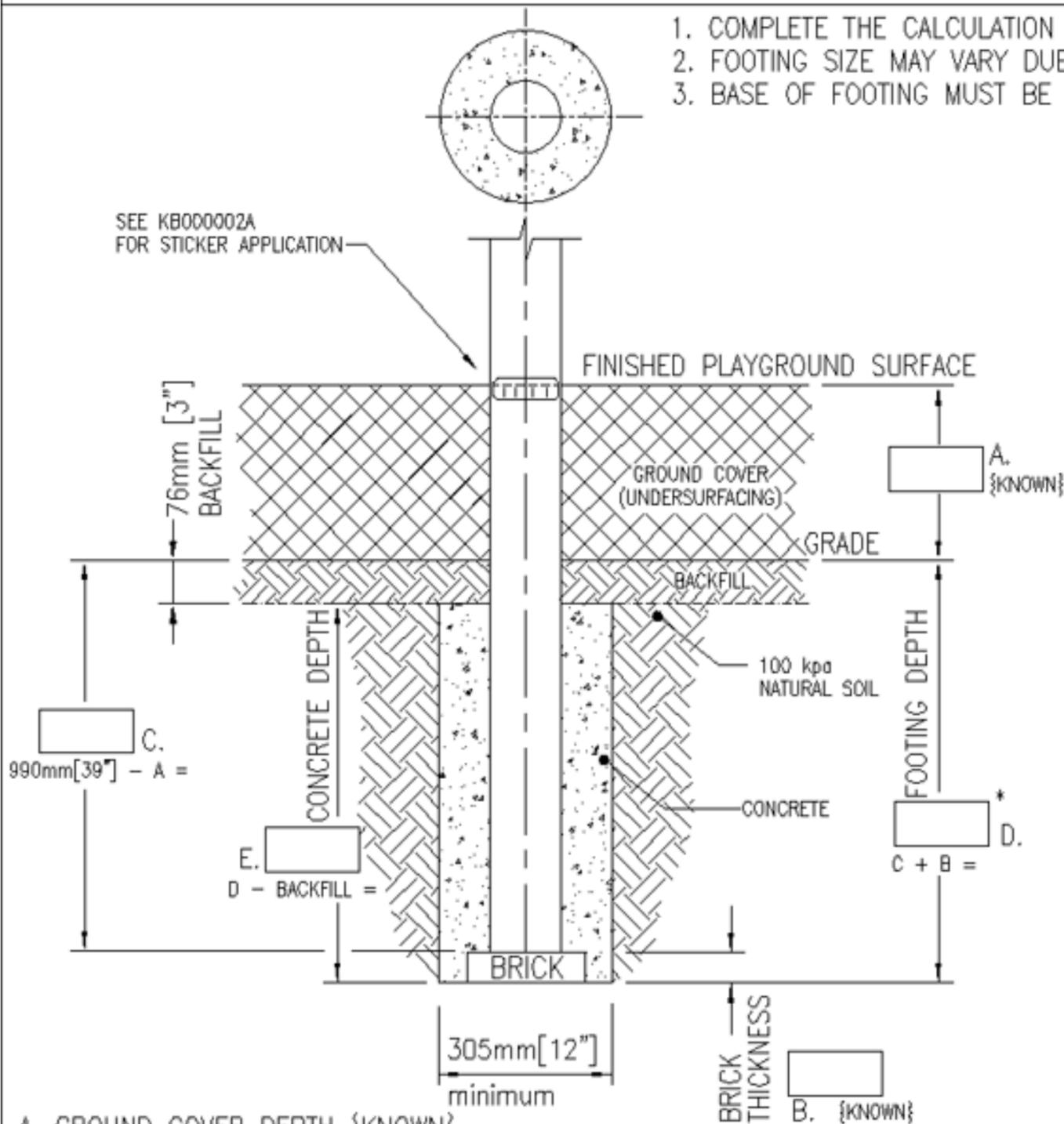
If you are in need of Material Safety Data Sheets pertaining to the use and handling of any maintenance materials such as touch-up paint, vinyl repair kits or for product such as, Kid Tiles adhesive or urethane top coatings, please contact our Customer Service Department at 1(800)325-8828. They will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

TOP OF SURFACE INSTALL AND MAINTAIN TOP OF RECOMMENDED SURFACING TO THIS MARK	HASTA A QUI COLOQUE Y MANTENGA HASTA LA MARCA LA SUPERFICIE RECOMENDADA	NIVEAU ZERO POUR L'INSTALLATION ET LA MAINTENANCE LA SURFACE AMORTISSANTE DOIT ATTEINDRE CE NIVEAU
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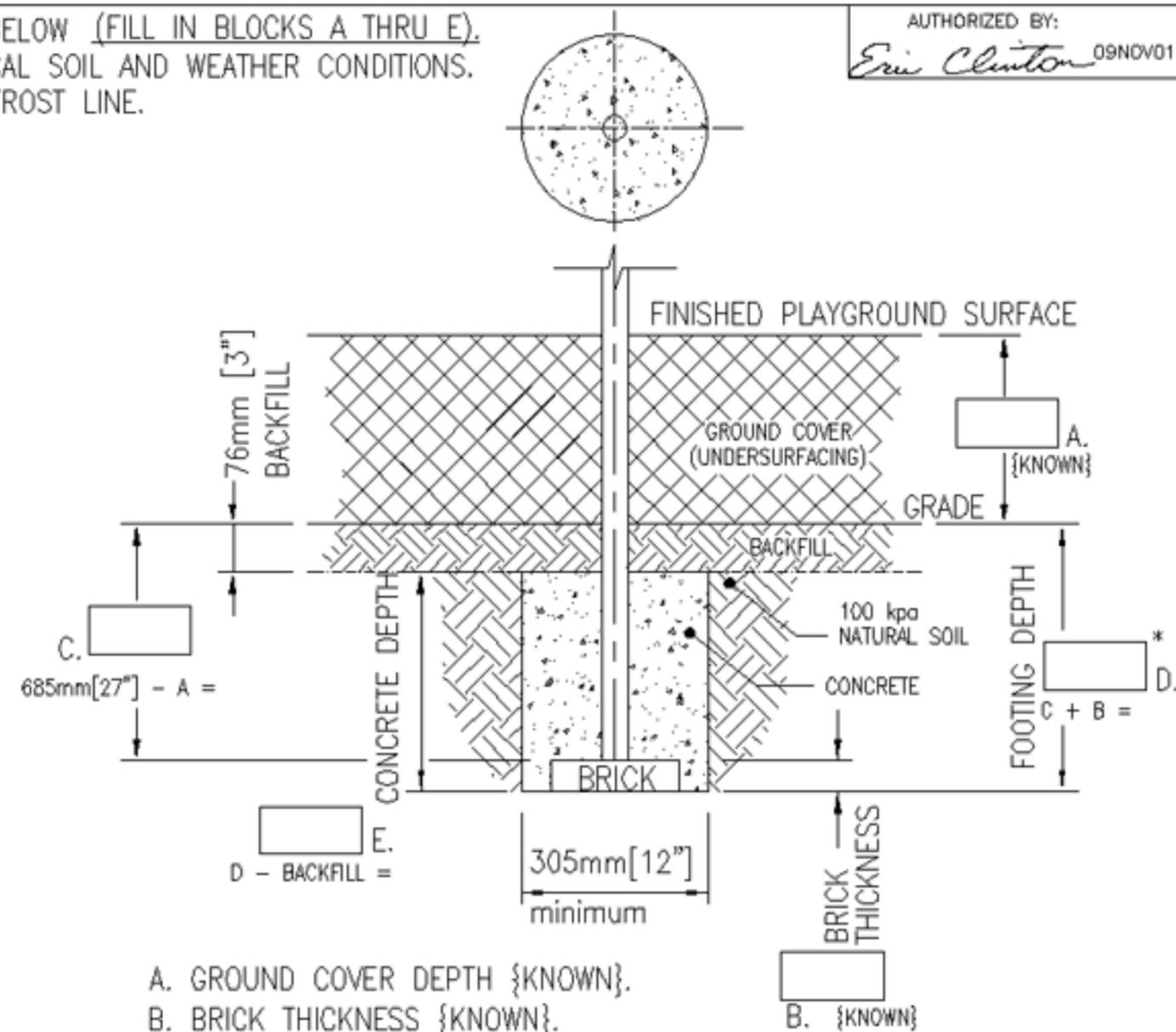
The sticker shown here has been provided to assist with the maintenance of your ground cover. After installing the ground cover, these stickers should be placed on the post by the installer (as shown). Peel the backing away from the sticker and attach it to the post so that the line is level with the 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:

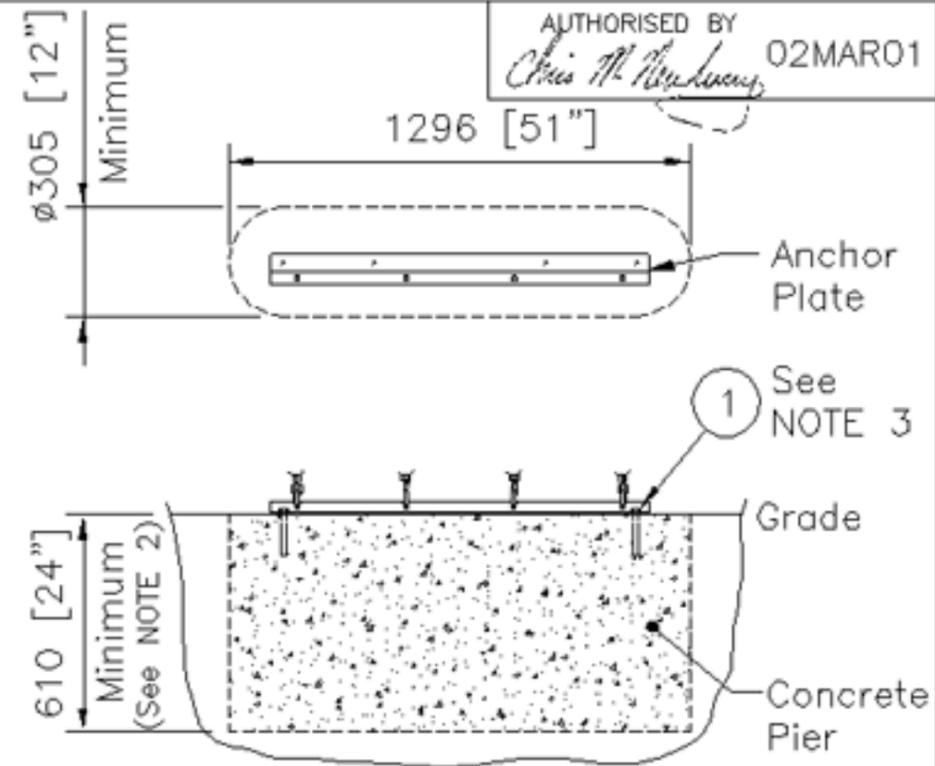
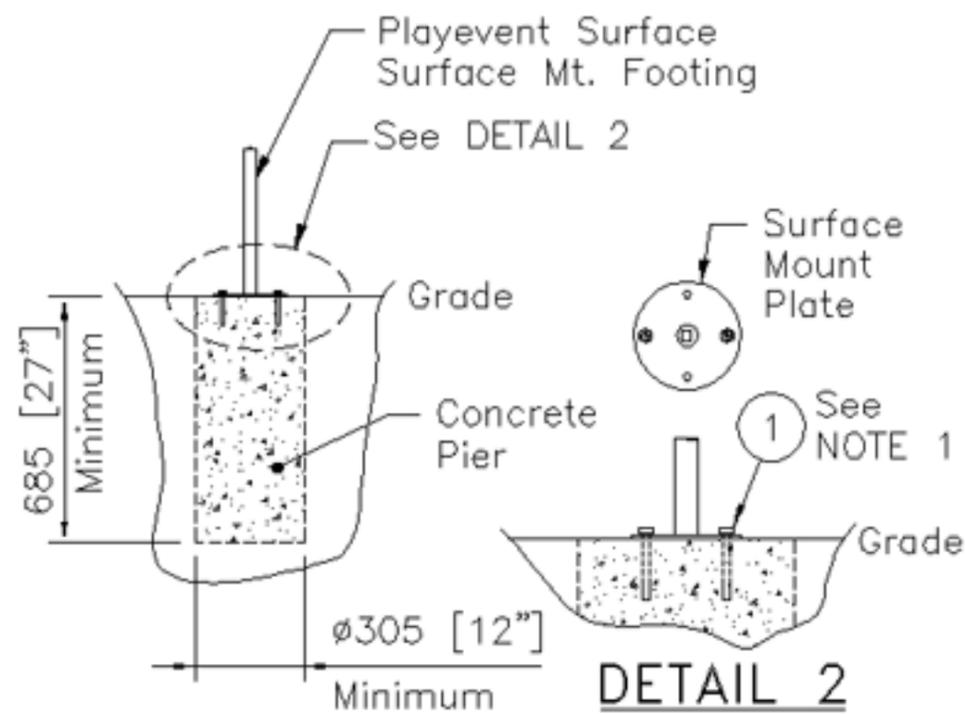
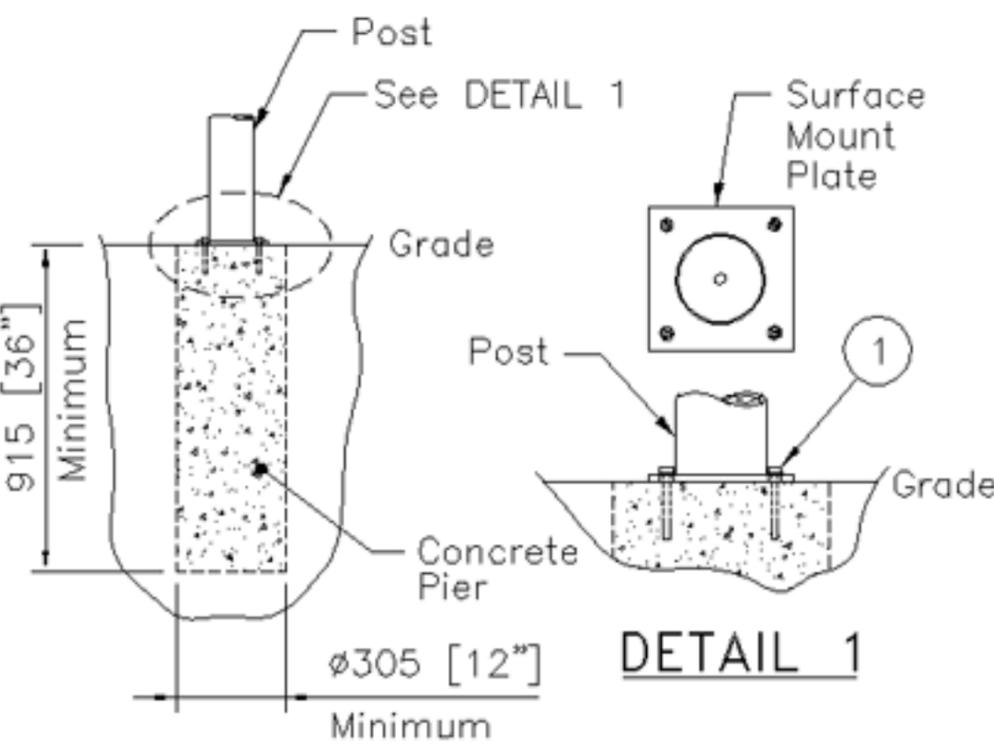
= 0.067 M³ x $\frac{\text{CONCRETE DEPTH (mm)}}{915}$ x No. OF FOOTING HOLES = M³

= 0.087 Yard³ x $\frac{\text{CONCRETE DEPTH (IN)}}{36}$ x No. OF FOOTING HOLES = Yard³

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

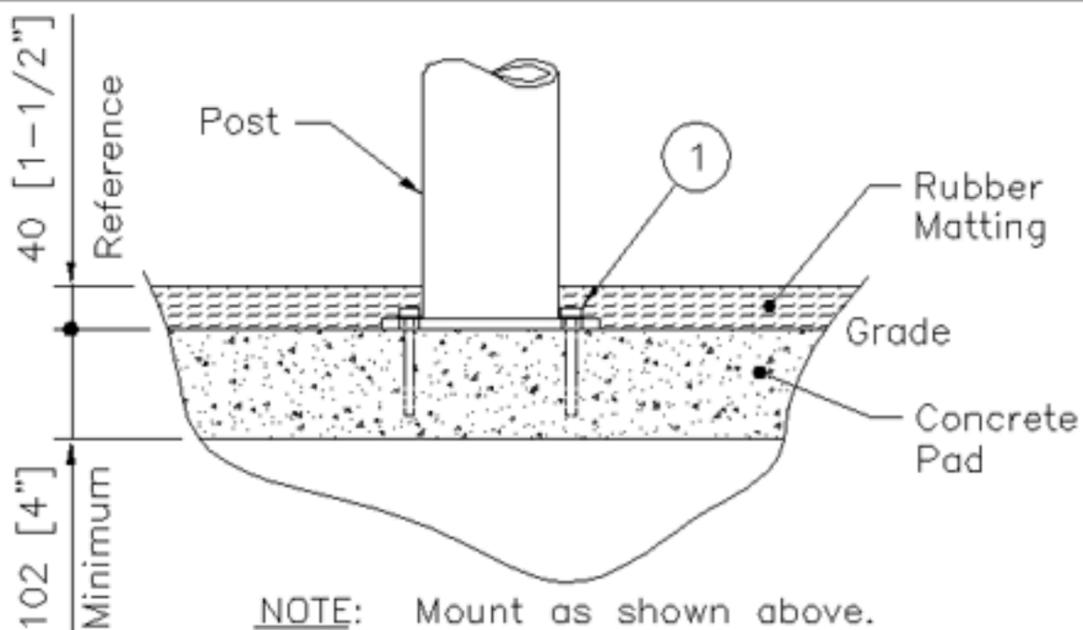
Item	Dwg Ref	Description	Qty.
1	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100MM	2

Playevent Footing

OPTION 2: CONCRETE PAD

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

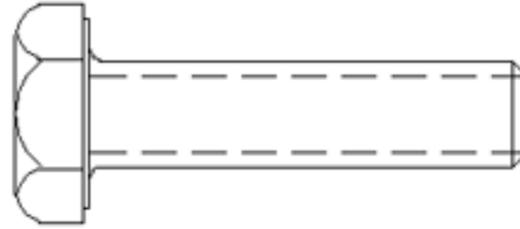
NOTE 5: A 3/8" Masonry bit is required to install anchor bolts.



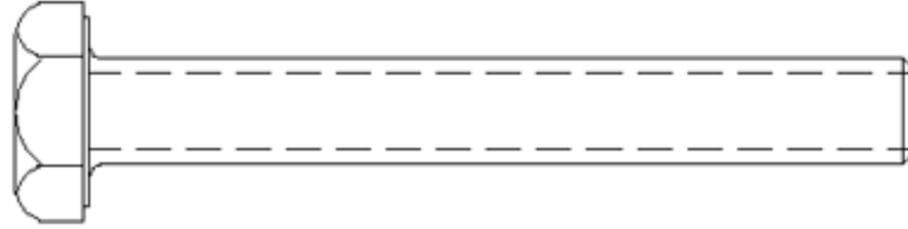
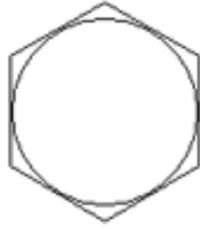
NOTE: Mount as shown above.

AUTHORIZED BY:
Chris M. Newberry 01MAR01

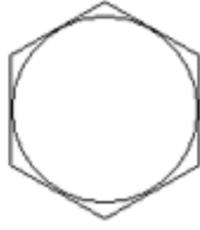
200001850
CAP SCREW HEX HEAD M10 x 1.50 x 40mm



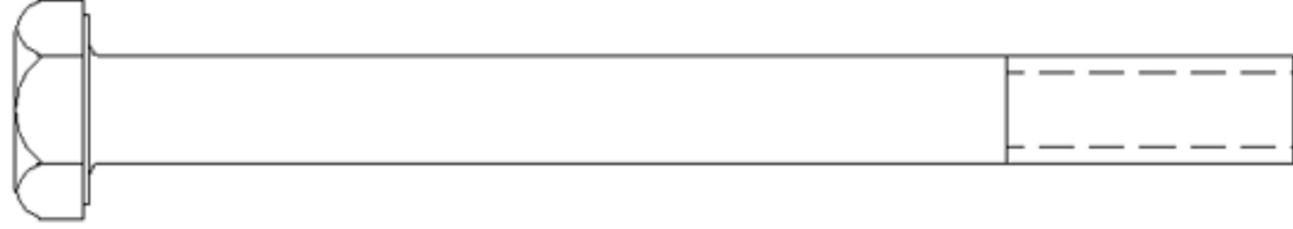
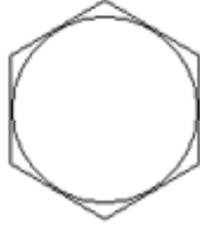
200001859
CAP SCREW HEX HEAD M10 x 1.50 x 75mm



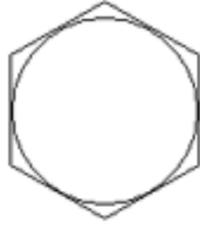
200001866
CAP SCREW HEX HEAD M10 x 1.50 x 100mm



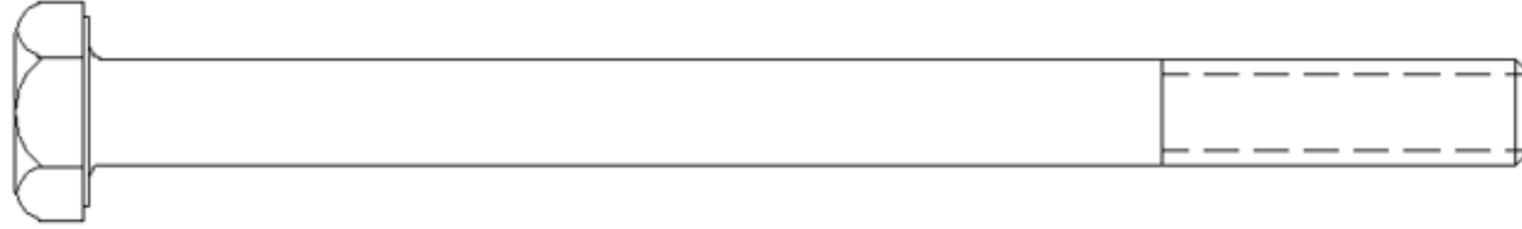
200001875
CAP SCREW HEX HEAD M10 x 1.50 x 110mm



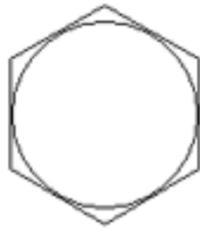
200001879
CAP SCREW HEX HEAD M10 x 1.50 x 120mm

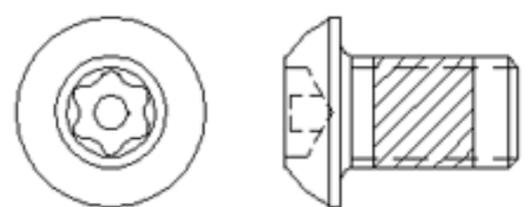


200001883
CAP SCREW HEX HEAD M10 x 1.50 x 130mm



200000792
CAP SCREW HEX HEAD M10 x 1.50 x 150mm

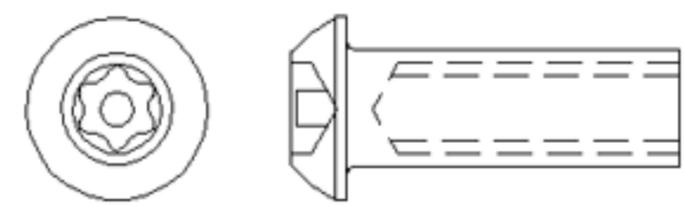




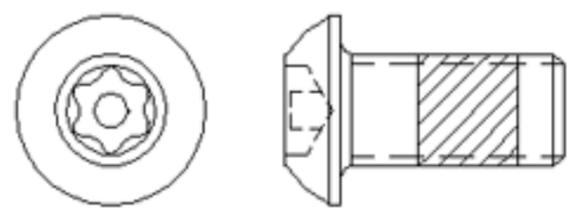
200002010
SCREW MACH BUTTONHEAD M10 x 1.50 x 16mm



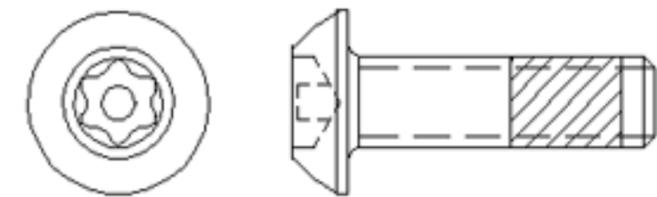
200002150
SCREW MACH BUTTONHEAD M10 x 1.50 x 55mm



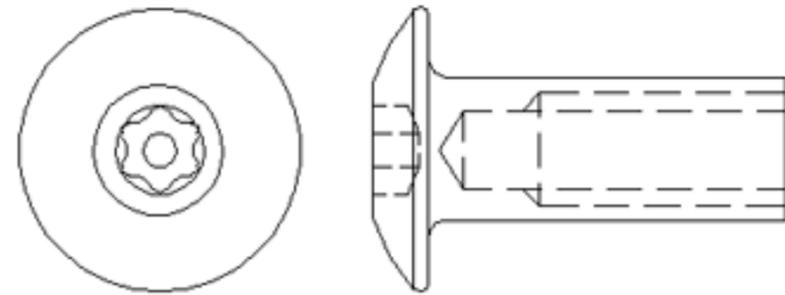
200002145
BOLT M8 x 1.25 FEMALE 10.3 x 30mm



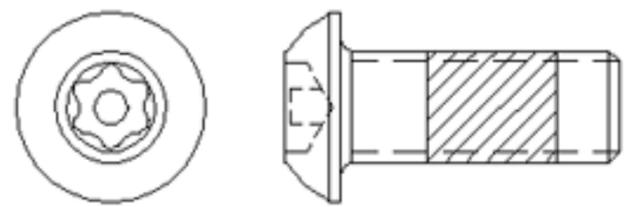
200002014
SCREW MACH BUTTONHEAD M10 x 1.50 x 20mm



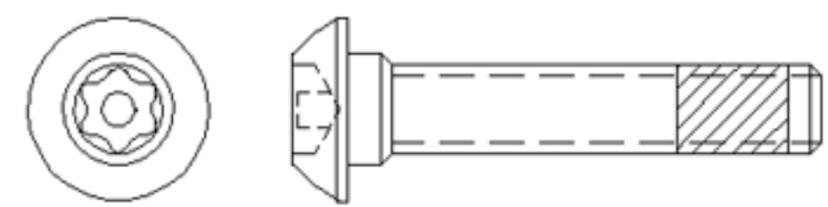
200002133
BOLT M8 x 1.25 MALE 27.5mm



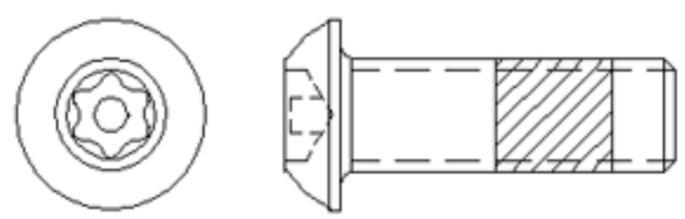
200001954
BARREL NUT M10 X 1.50 (12.70 DIA x 32mm)



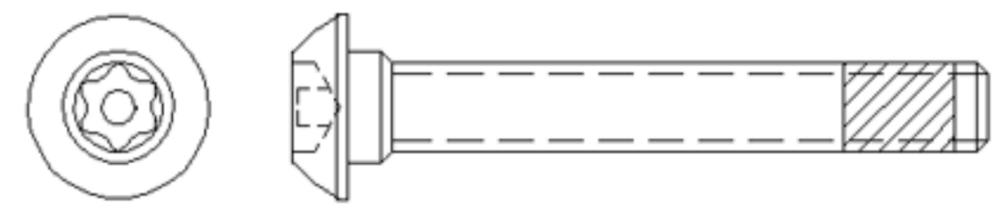
200002018
SCREW MACH BUTTONHEAD M10 x 1.50 x 25mm



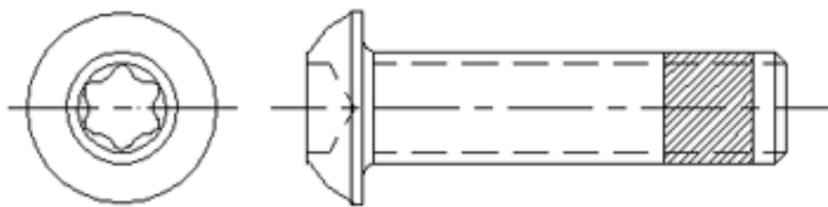
200002138
BOLT M8 x 1.25 MALE 42.5mm



200002030
SCREW MACH BUTTONHEAD M10 x 1.50 x 30mm

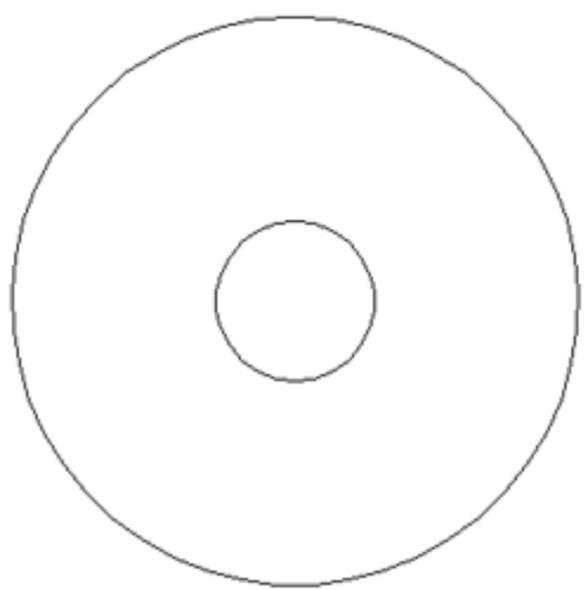


200002142
BOLT M8 x 1.25 MALE 57.5mm

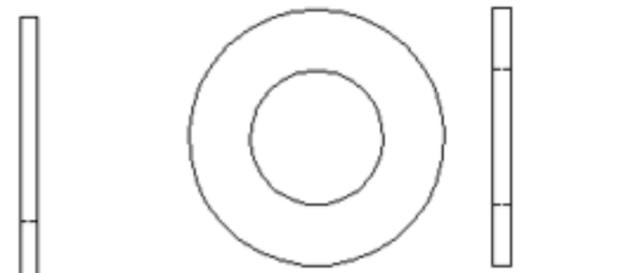


200097726
SCREW MACH BUTTONHEAD M10 x 1.50 x 38mm

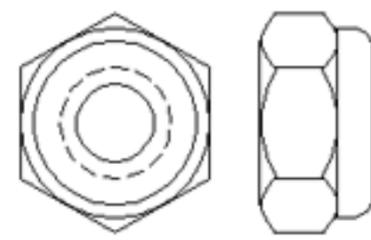
AUTHORIZED BY:
BARRY WILFONG 15FEB12



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



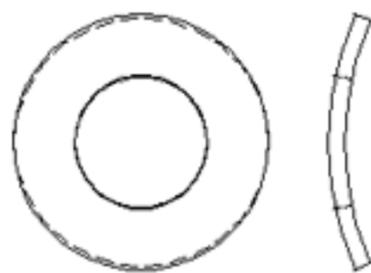
200002079
WASHER FLAT M11 23 x 12 X 1.6mm



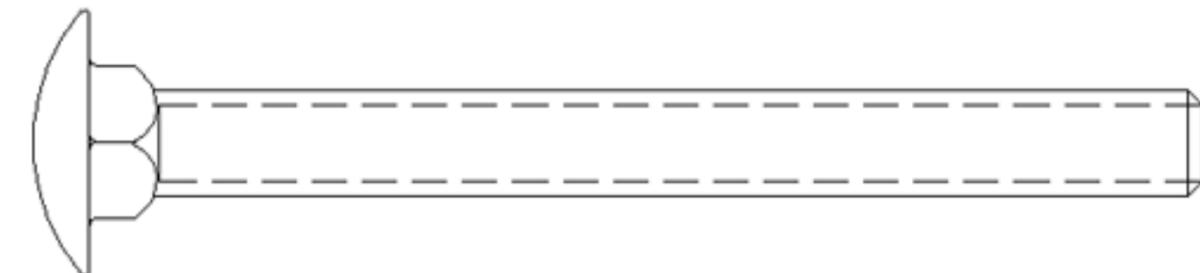
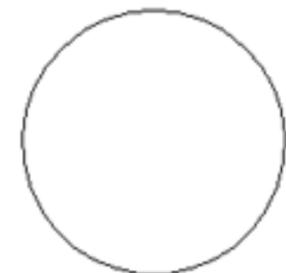
200001945
NUT LOCK HEX NYLON INSERTED M10 x 1.5



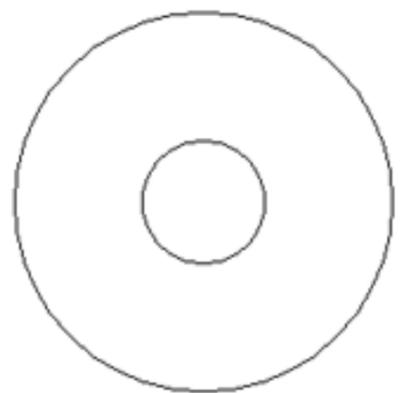
200002002
SCREW DRILL HEX HEAD M6 .3 x 1.81 x 65mm



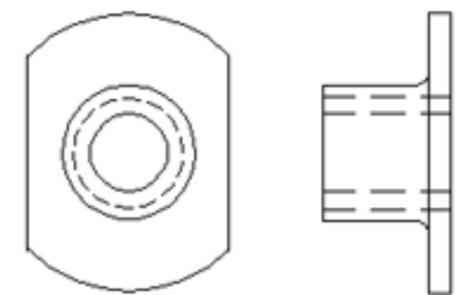
200008483
WASHER BOWED M11 23.5 x 11.7 x 1.57 mm



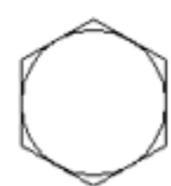
200001810
BOLT CARRIAGE M10 x 1.50 x 100mm



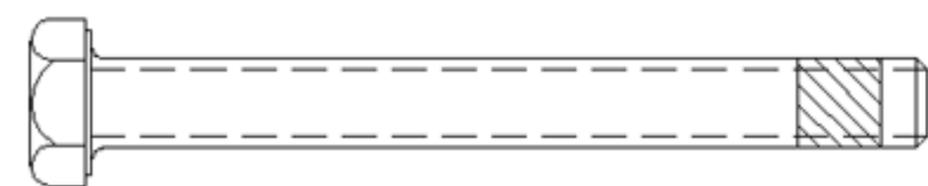
200002096
WASHER FLAT M10 34OD x 11ID x 3 mm THK



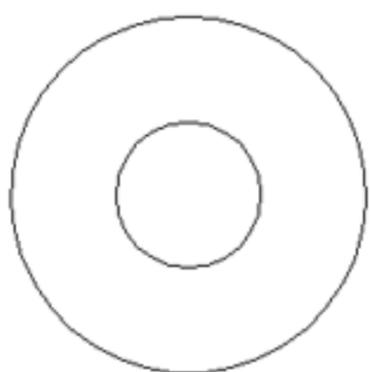
200001966
T-NUT SLAB BASE M10 x 1.50 x 9.5mm



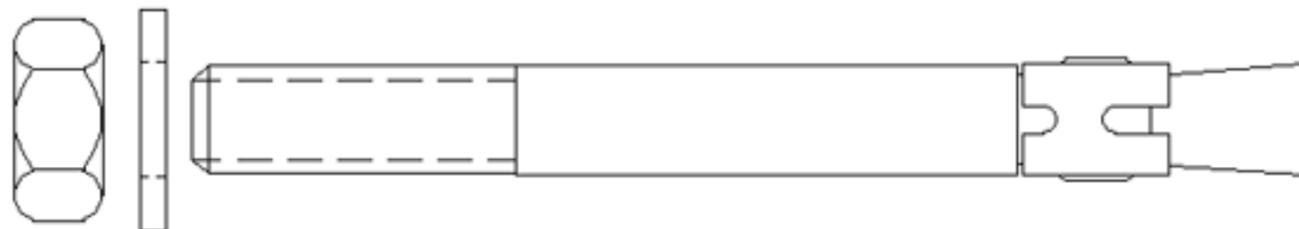
200001826
CAP SCREW HEX HEAD M8 X 1.25 X 75mm



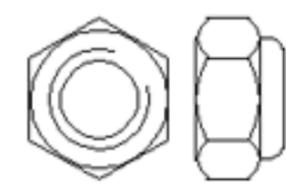
200001986
SCREW U-DRIVE ROUND HEAD M5 x 16mm



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



200001776
ANCHOR CONCRETE WEDGE M10 x 1.5 x 100mm



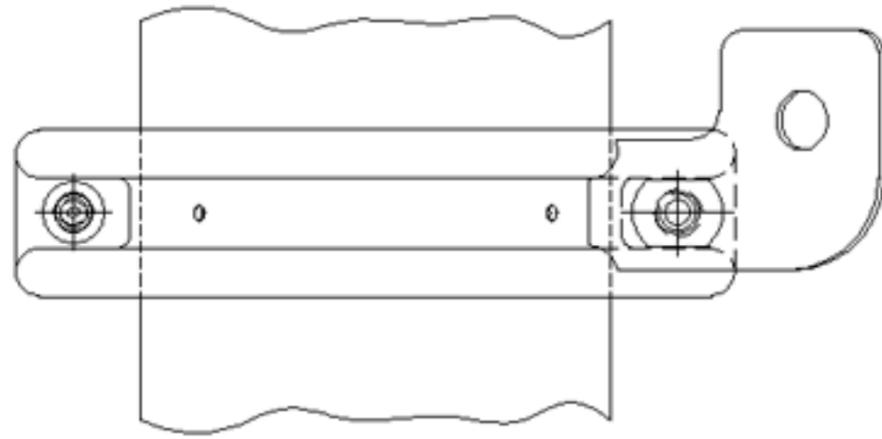
200001934
NUT LOCK HEX NYLON INSERTED M8 x 1.25



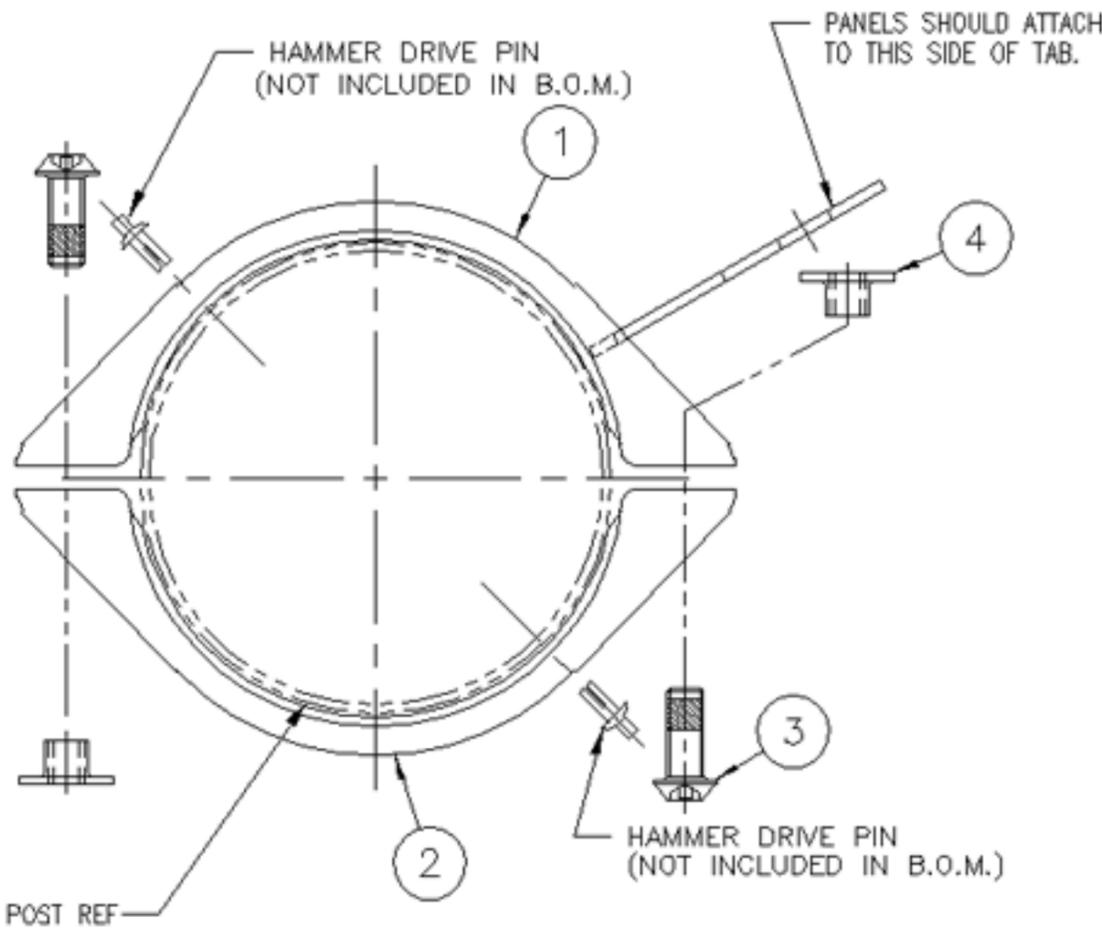
CLAMP HI-LO TAB F/KB

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

KB000009A

AUTHORIZED BY:
[Signature] 03AUG99

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

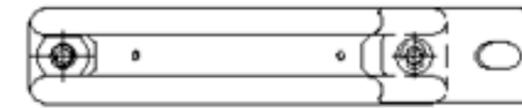
- CHECK ALL HARDWARE
- TOUCH UP ANY MARRED PAINT SURFACE

Installation Instructions

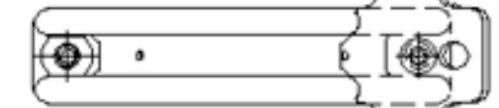
1. POSITION THE CLAMP HALVES AROUND THE POST AND LOOSELY CONNECT HALVES TOGETHER WITH THE HARDWARE SHOWN. CLAMPS SHOULD BE ORIENTED SO THAT PANELS WILL ATTACH TO THE TAB FACE SHOWN IN THE DETAIL.
2. MOVE THE CLAMP ASSEMBLY ALONG THE POST UNTIL IT LINES UP WITH THE LOCATION THAT IT WILL BE CONNECTED TO 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.

PANEL OR WING CLAMP

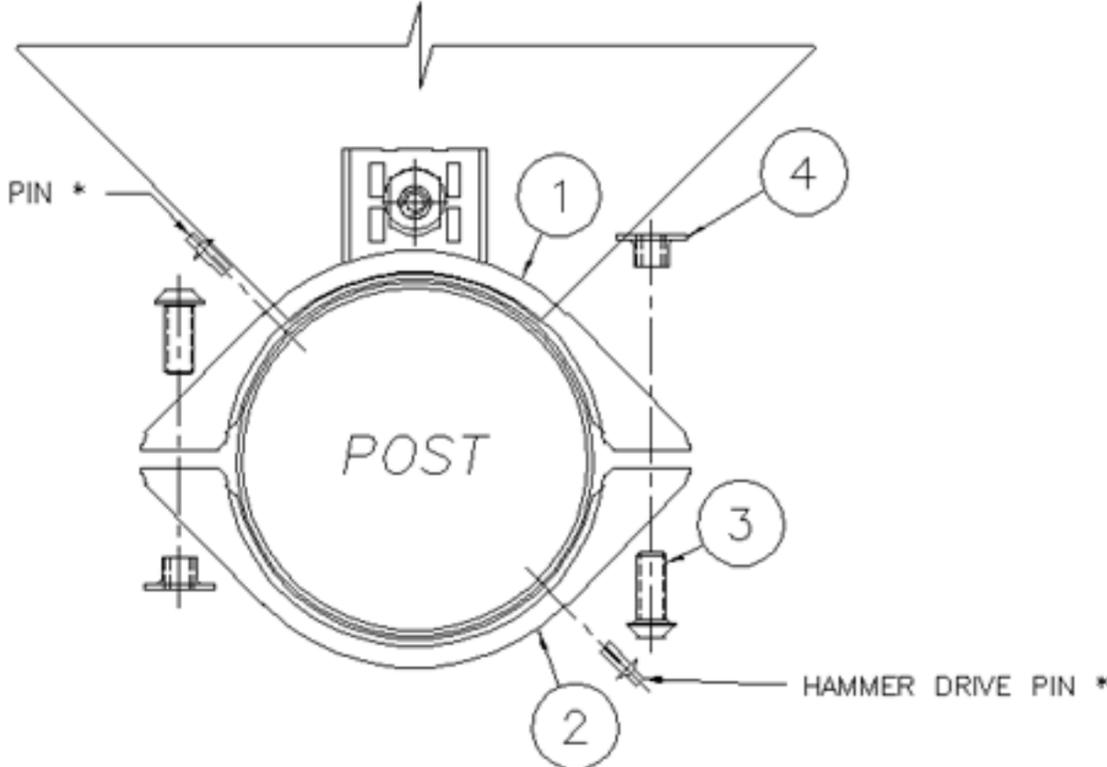
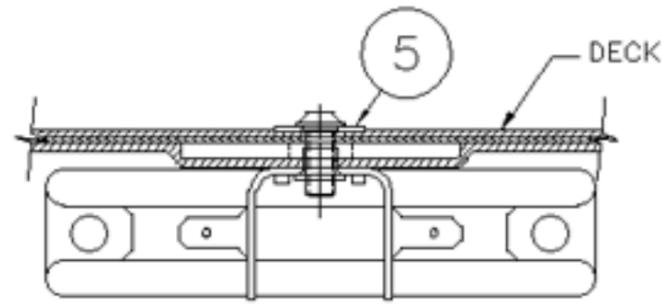
ITEM	CODE	DESCRIPTION	QTY
1	-	CLAMP HALF W/TAB F/PANEL MT. ZN	1
-OR-	-	CLAMP HALF W/TAB F/KB WING CLAMP	1
2	-	CLAMP HALF W/O WELDED ATTACHMENT ZN	1
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	2
4	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	2



REF: PANEL CLAMP

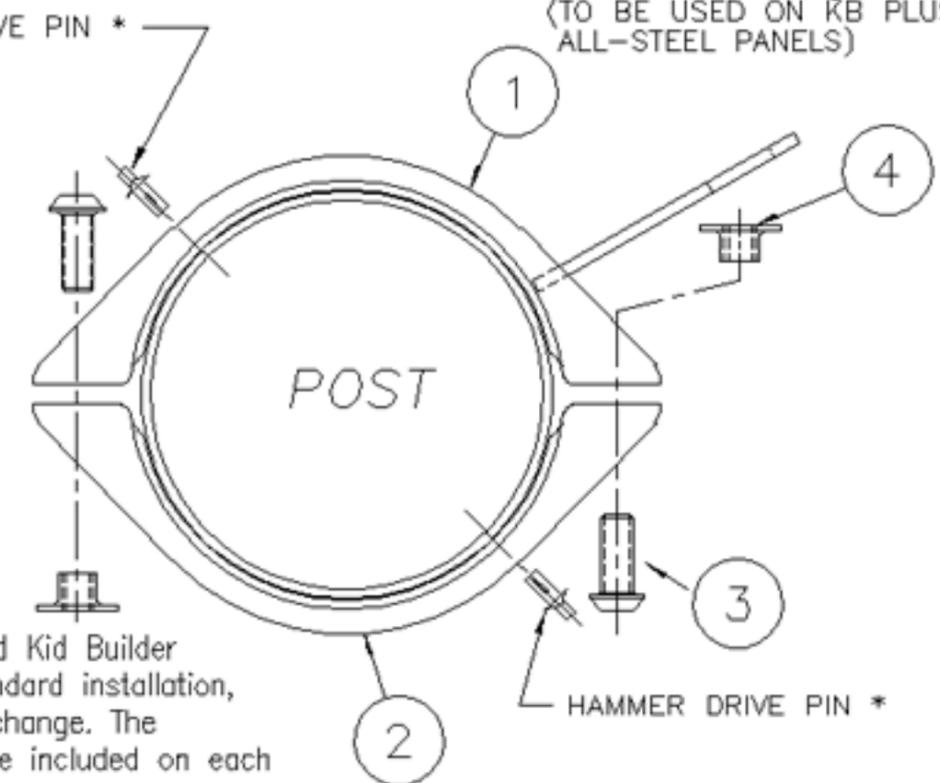


REF: WING CLAMP
(TO BE USED ON KB PLUS ALL-STEEL PANELS)



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.

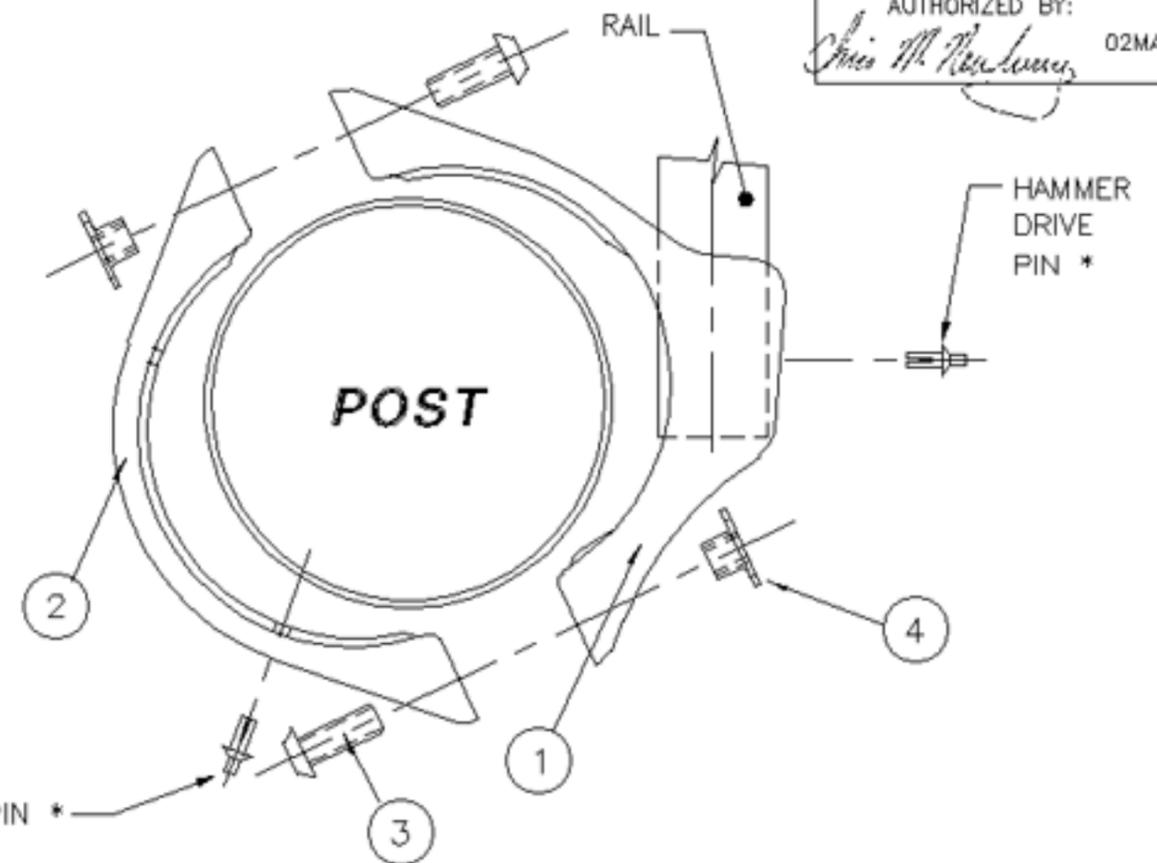
* Hammer drive pins are not included in the clamp hardware bag. They are located in a separate bag in the hardware kit.

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.

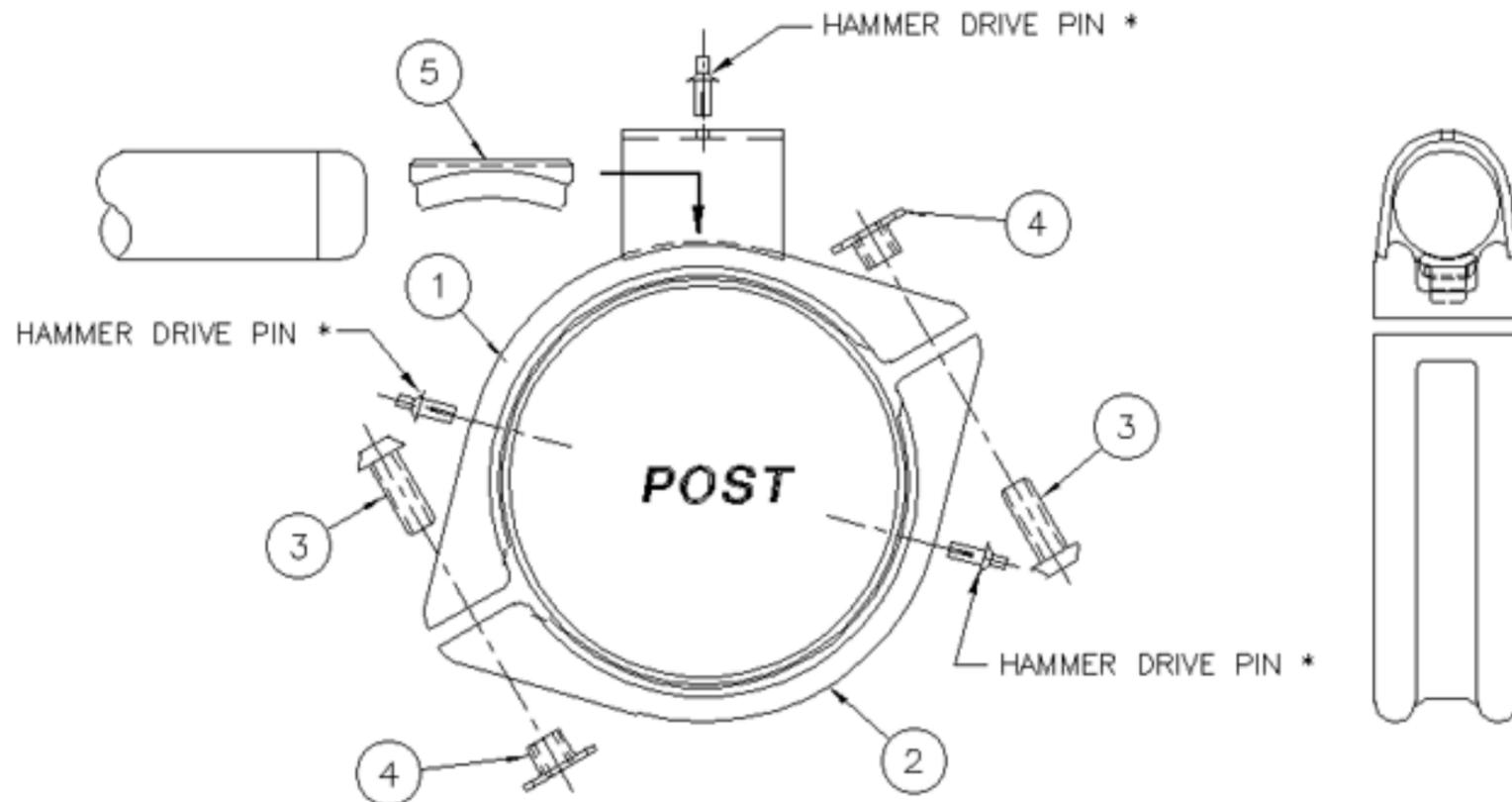
1. Each Clamp half will have a small hole and a large hole on opposite sides. The Larger hole accommodates the Tee Nuts.
2. Always make sure the event is at the proper height and the clamps are level before Hammer Drive Pins are installed.
3. There will also be two smaller pilot holes on each clamp half. 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

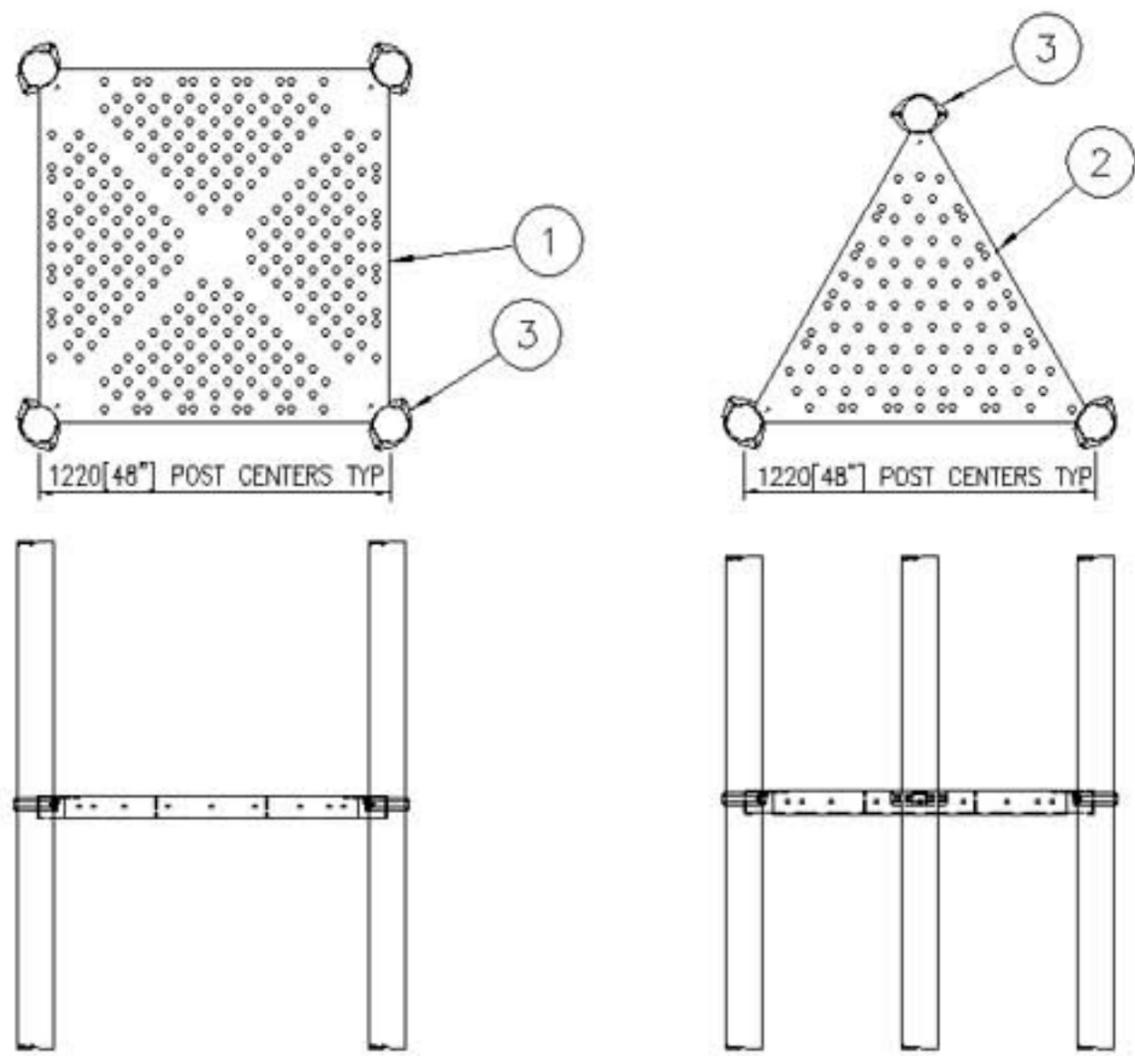
ITEM	DRG REF	DESCRIPTION	QTY
1	-	CLAMP HALF W/ATT. F/RAILS ZN 30 DEG.	1
2	-	CLAMP HALF W/O WELDED ATTACHMENT ZN	1
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25 MM	2
4	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5 MM	2
5	200000733	SPACER WEDGE ALUM. F/KB CLAMP F/SLOT	1



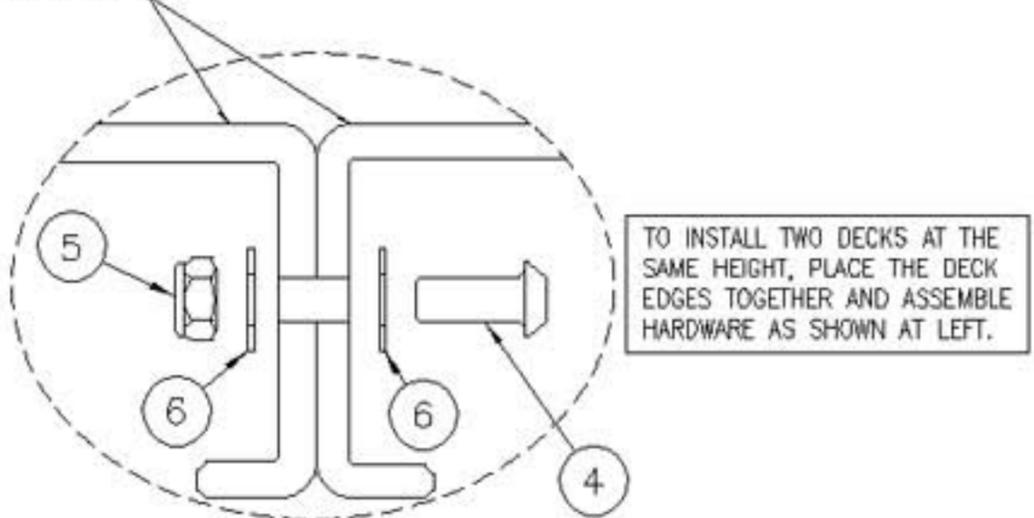
HOODED RAIL CLAMP

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



KB DECKS



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

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

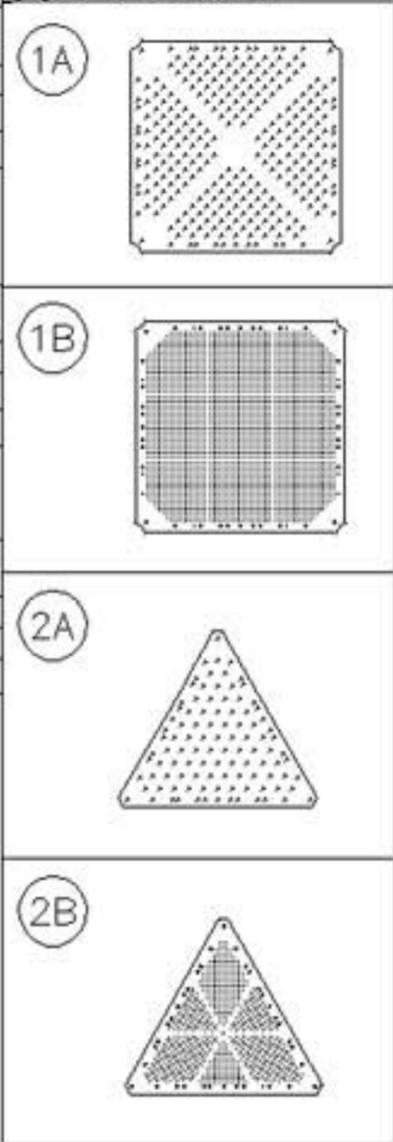
Item	Code	Description	Qty.
4	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	7
5	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	7
6	200002079	WASHER FLAT M11 X 12 X 1.6MM	14

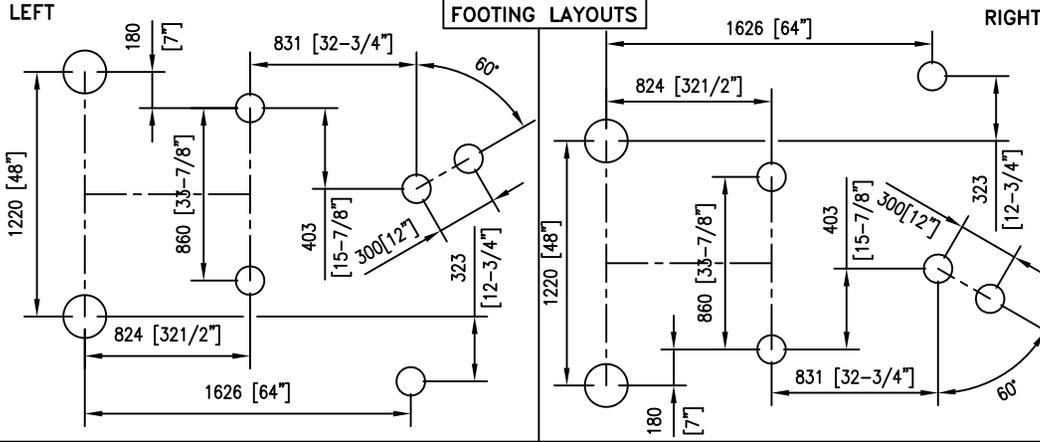
Application
AGE GROUPS (2-12 YEAR OLDS)

- 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.

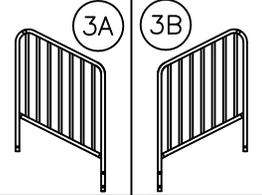
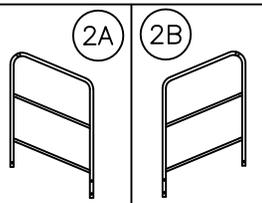
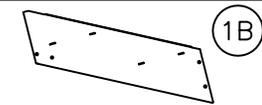
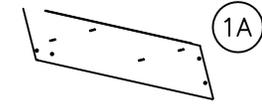




- 200202560-KB TRANS STAT 1016 GRD RL 11GA
- 200202558-KB TRANS STAT 1016 SFTY RL 11GA
- 200202561-KB TRANS STAT 1016 GRD RL (SM HL)11GA
- 200202559-KB TRANS STAT 1016 SFTY RL (SM HL)11GA

 AUTHORIZED BY: 05FEB19
 Steve Adkins

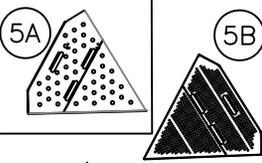
Item	Code	Description	Qty.
1A	910543*	STEPS DECK TO DECK 610 KB (2002)	1
1B	910542*	STEPS DK-TO-DK 610 KB SMALL HOLE	1
2A	911140*	GUARDRAIL LFT.KB 40" TRSFR.	1
2B	911139*	GUARDRAIL RGT.KB 40" TRSFR.	1
3A	999645*	SAFETY RAIL LFT KB 40" TRSFR	1
3B	999644*	SAFETY RAIL RIIGHT KB 40" TRSFR	1
4	909346*	HOODED RAIL CLAMP F/KB	2
5A	902717*	DECK SNO CONE TRANSFER STATION LG HOLE	2
5B	902688*	DECK SNO CONE TRANSFER STATION SM HOLE	2
6	910421*	PLATE KICK F/TRANSFER STATION	1
7A	911253*	LOOP TRSFR STATION 40 SM	1
7B	911252*	LOOP F/TRSFR STATION 305 SMT	1
7C	911251*	LOOP F/TRSFR STATION BURIED	1
8A	910044*	SUPP FOOT TRSFR STAT DK SM40	1
8B	910043*	SUPP FOOT TRSFR STAT DK SM305	1
8C	910042*	SUPP FOOT TRSFR STAT DK BURIED	1
9A	910041*	SUPP STEP TRSFR STAT 40 SRFMT	1
9B	904419*	SUPP STEP TRSFR STAT 305 SFMT	1
9C	910040*	SUPP STEP TRSFR STAT BURIED	1
10	HW1CLMPSET-1	HRDW PKG F/1SET O/CLAMPS S1/1	3
11	HW16252-1	HRDW PKG KB TRSFR STATION 1/4	1
12	HW16252-2	HRDW PKG KB TRSFR STATION 2/4	1
13	HW16252-3	HRDW PKG KB TRSFR STATIN 3/4	1
14	HW16252-4	HRDW PKG KB TRSFR STAITN M4/4	1



Note: An (*) by a part number (Code) indicate: Color Code Required.

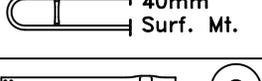
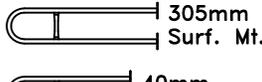
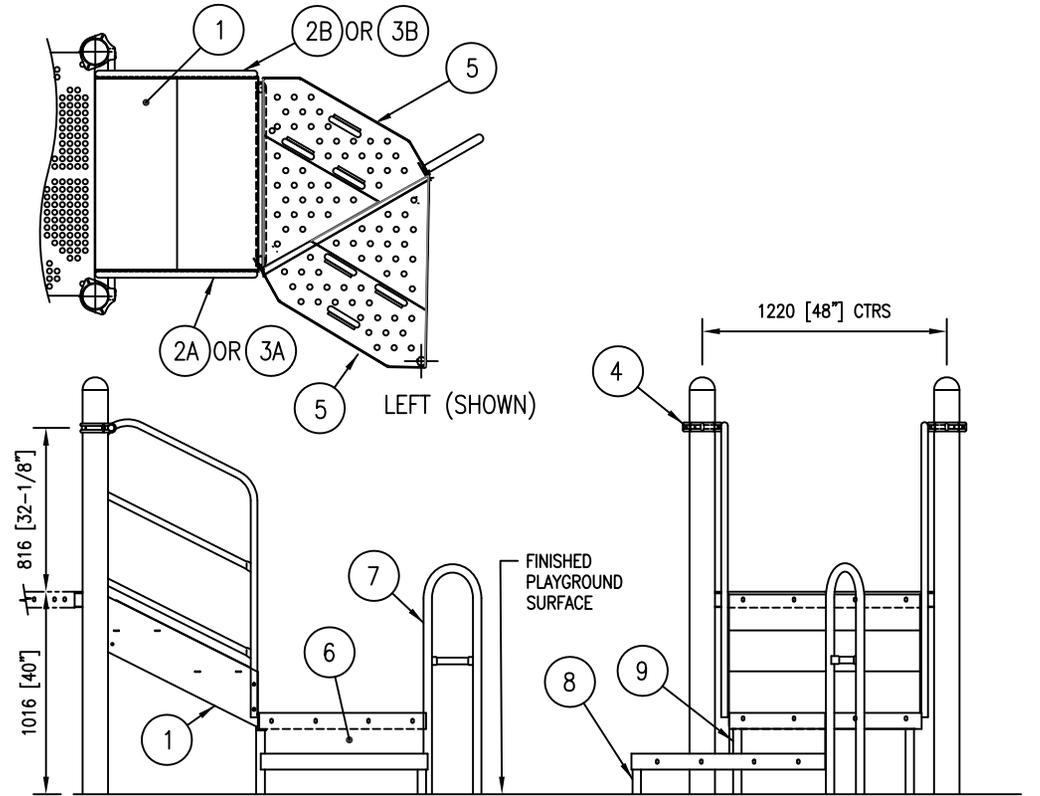
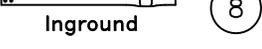
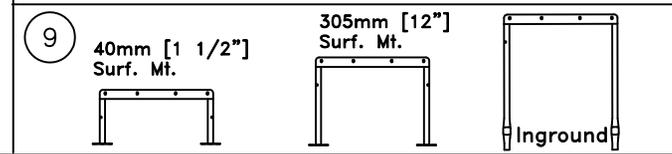
HRDW PKG F/1SET O/CLAMPS S1/1 - HW1CLMPSET-1

Item	Code	Description	Qty.
15	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	2
16	200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	2
17	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	2

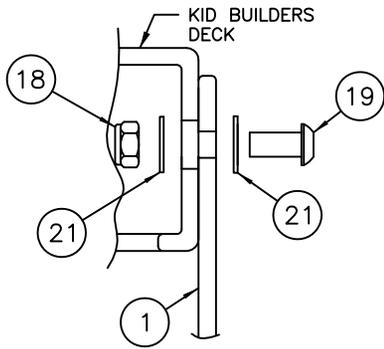


- HRDW PKG KB TRSFR STATION 1/4 - HW16252-1
- HRDW PKG KB TRSFR STATION 2/4 - HW16252-2
- HRDW PKG KB TRSFR STATION 3/4 - HW16252-3
- HRDW PKG KB TRSFR STATION M4/4 - HW16252-4

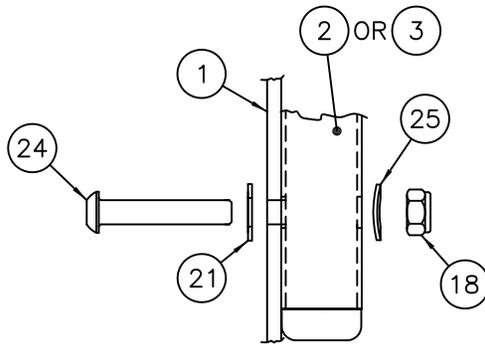
Item	Code	Description	Qty.
18	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	22
19	200002018	SCREW MACH BUTTONHEAD M10 X 1.5 X 25MM	12
20	200002030	SCREW MACH BUTTONHEAD M10 X 1.5 X 30MM	4
21	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	43
22	200002133	BOLT M8 X 1.25 MALE 27.5mm	5
23	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30mm	5
24	200002150	SCREW MACH. BUTTONHEAD M10 X 1.5 X 55mm	6
25	200008483	WASHER BOWED M11 23.5 X 11.7 X 1.57mm	11


Application
 - Provides accessibility to structure.


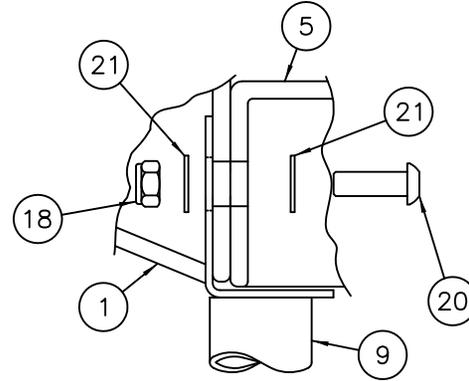
NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS



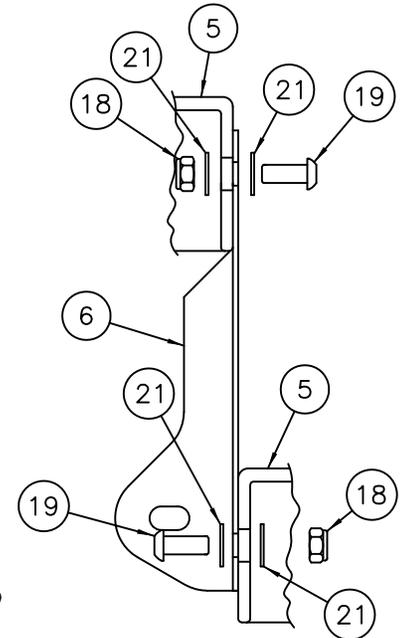
SECTION A-A
TYP 4 PL
(TOP OF STEPS TO
KB DECK ATTACHMENT)



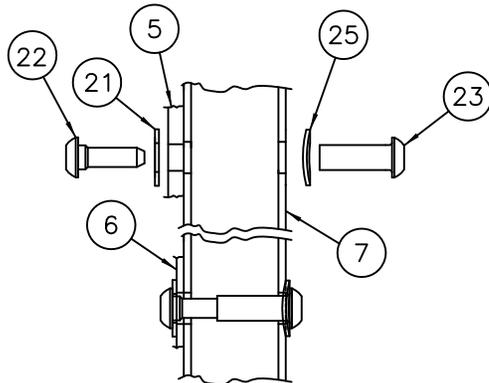
SECTION B-B
TYP 3 PL PER HANDRAIL
(HANDRAIL TO STEP
ATTACHMENT)



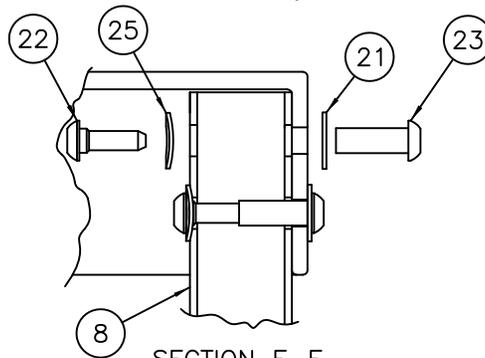
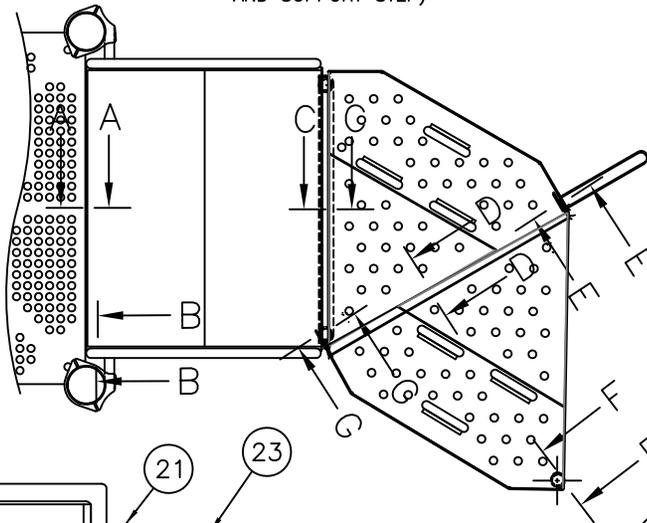
SECTION C-C
TYP 4 PL
(BOTTOM OF STEPS TO
UPPER SNO CONE DECK
AND SUPPORT STEP)



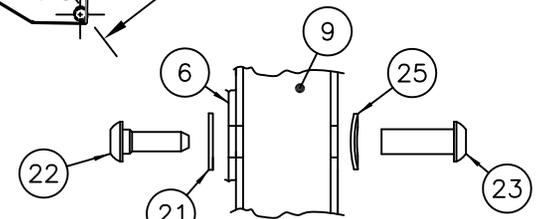
SECTION D-D
TYP 4 PL



SECTION E-E
TYP 1 PL
(LOOP ATTACHMENT
TO SNO CONE DECK
& KICK PLATE)



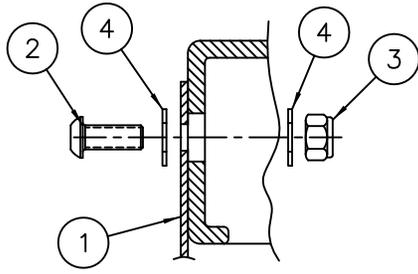
SECTION F-F
TYP 1 PL
(SUPPORT FOOT TO LOWER
SNO CONE DECK ATTACHMENT)



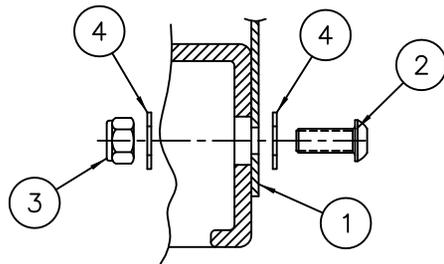
SECTION G-G
TYP 1 PL
(KICK PLATE TO STEP
SUPPORT ATTACHMENT)

Note: DO NOT over tighten bolts or damage may occur to the PVC coatings on components. Bolts have a thread lock patch. It is not necessary that the bolt extend into the nylon portion of the Nylock nut.

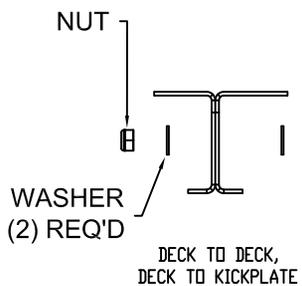
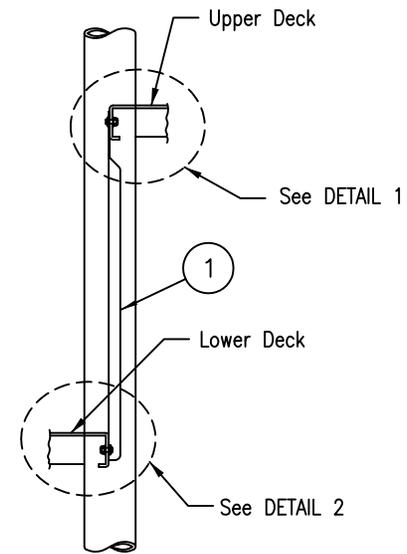
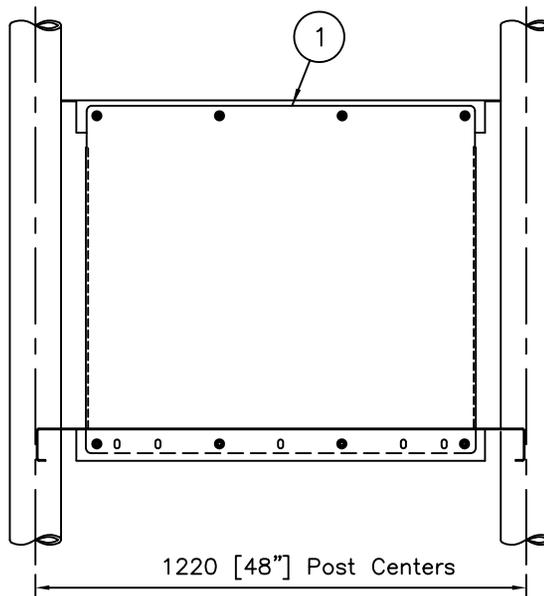
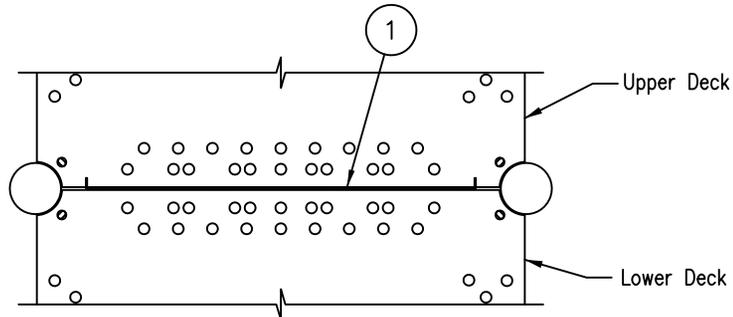
AUTHORIZED BY: 13JUN19
Matt Blisard



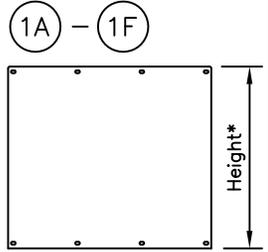
DETAIL 1
Type 4 Places



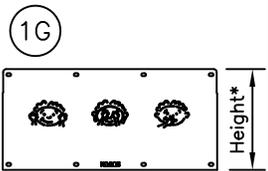
DETAIL 2
Type 4 Places



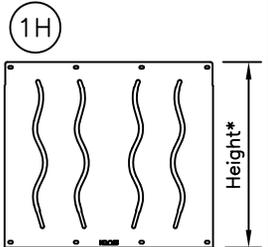
DO NOT OVERTIGHTEN BOLTS OR DAMAGE MAY OCCUR TO THE PVC COATING ON COMPONENTS. BOLTS HAVE A THREAD LOCK PATCH. IT IS NOT NECESSARY THAT THE BOLT EXTEND INTO THE NYLON PORTION OF THE NYLOCK NUT.



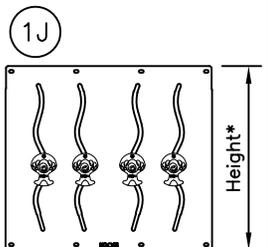
*Height will vary according to distance between decks



*Height will vary according to distance between decks



*Height will vary according to distance between decks



*Height will vary according to distance between decks



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

KB200001E

Sheet 2 of 2

AUTHORIZED BY: 13JUN19
Matt Blisard

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		
Item	Code	Description	Qty.
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	
HDWR BAG F/KB STEEL KICK PLATES (MM) 200007706			
2	200002018	SCREW MACH BUTTON HEAD M10 X 1.50 X 25mm	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

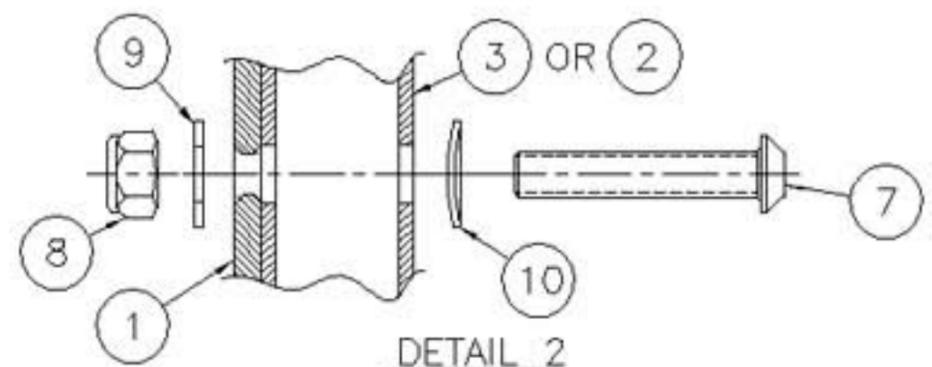
Application

- 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.

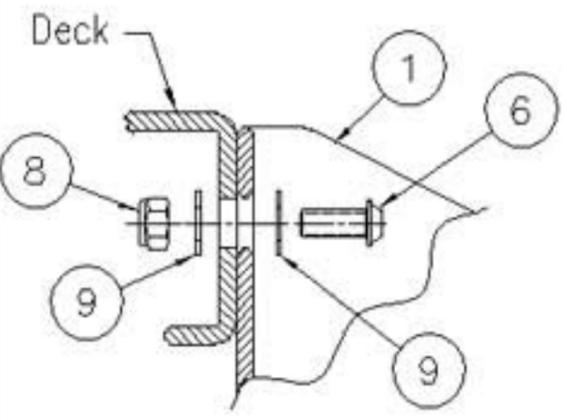
Installation Instructions

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.

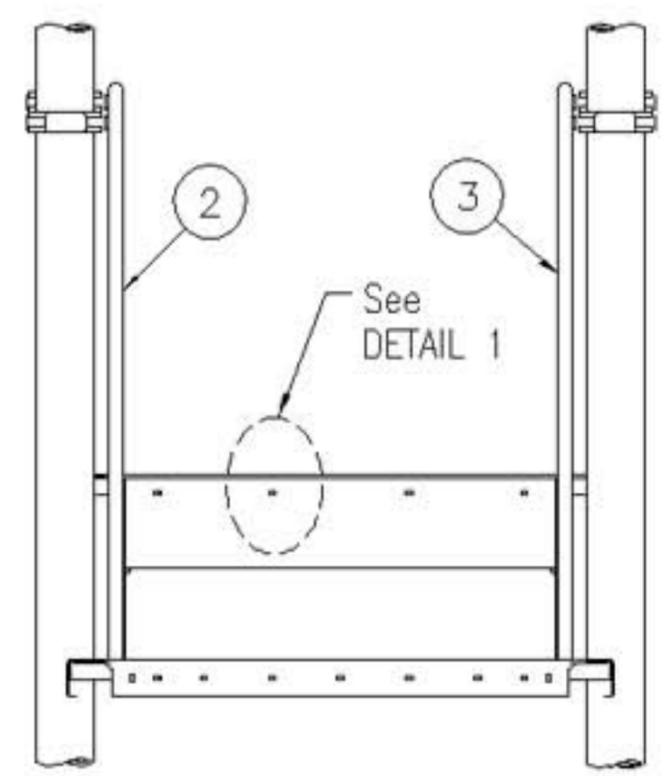
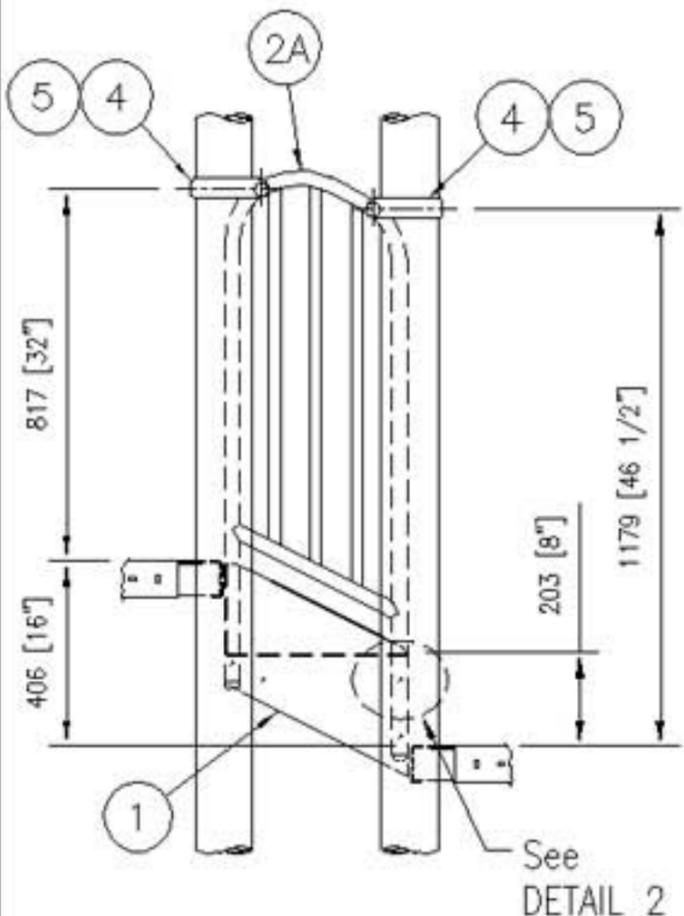
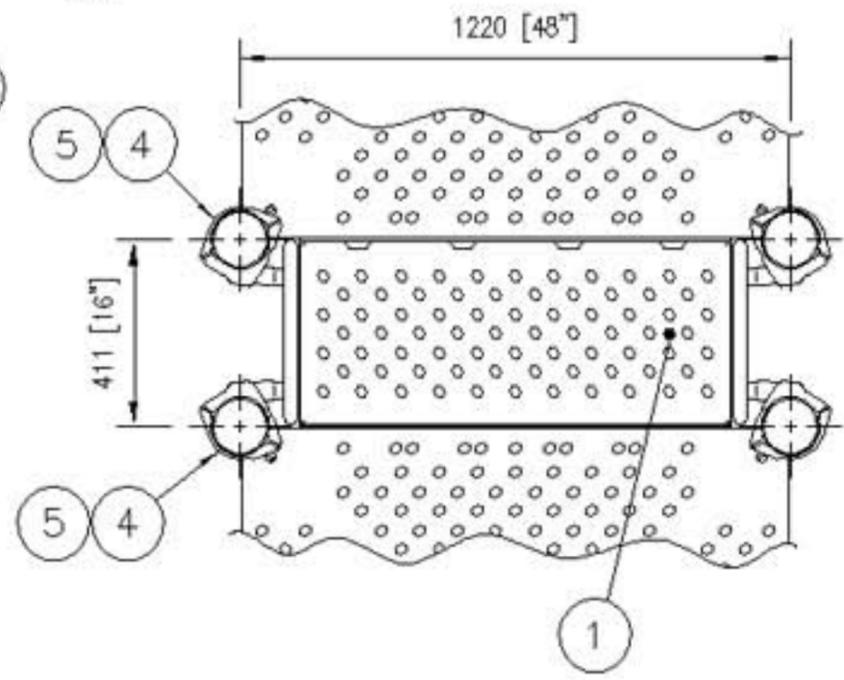
AUTHORIZED BY: 18MAR08
Eric L. Claudus



DETAIL 2
Typ 6 Places



DETAIL 1
Typ 8 Places



KB STEPS DK/DK 406MM W/SAFETY RAILS(LG) 200201306
KB STEPS DK/DK 406MM W/SFTY RL(SM.HOLE) 200201307

Item	Code	Description	Qty.
1A	-	STEPS DECK-TO-DECK 406 MM TDV -OR-	1
1B	-	STEPS DECK-TO-DECK 406 MM SM HOLE, TDV	1
2A	-	SAFETY RAIL LFT.KB 406 DK/DK.	1
3A	-	SAFETY RAIL RGT.KB 406 DK/DK.	1
4	-	HOODED RAIL CLAMP ASSEMBLY	4
5	200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	8

KB STEPS DK/DK 406MM W/GUARD RAILS 200201304
KB STEPS DK/DK 406MM W/GRD RL(SM.HOLE) 200201305

Item	Code	Description	Qty.
1A	-	STEPS DECK-TO-DECK 406 MM TDV -OR-	1
1B	-	STEPS DECK-TO-DECK 406 MM SM HOLE, TDV	1
2B	-	GUARD RAIL LFT.KB 406 DK/DK.	1
3B	-	GUARD RAIL RGT.KB 406 DK/DK.	1
4	-	HOODED RAIL CLAMP ASSEMBLY	4
5	200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	8

HDWR BAG F/KB 406MM DECK TO DECK STEPS
200041200

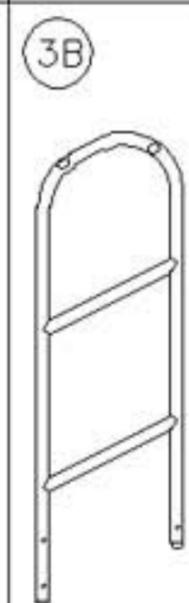
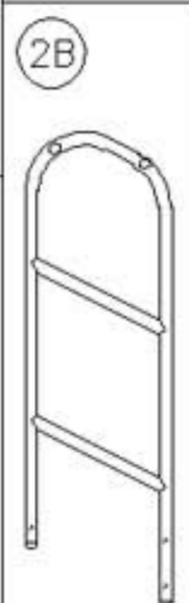
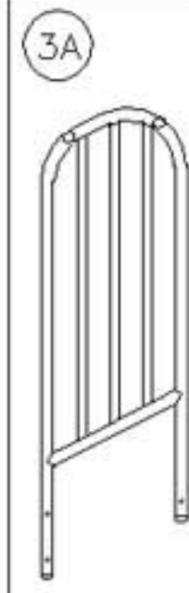
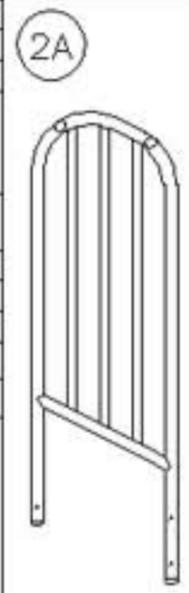
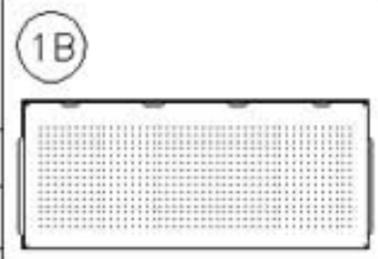
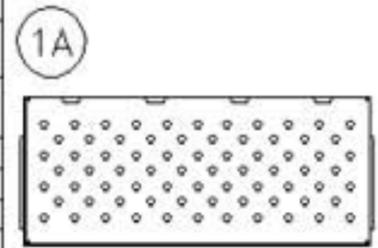
Item	Code	Description	Qty.
6	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	8
7	200002150	SCREW MACH BUTTONHEAD M10 X 1.5 X 55 MM	6
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	14
9	200002079	WASHER FLAT M11 23 X 12 X 1.6	22
10	200008483	WASHER BOWED M11 23.5 X 11.7 X 1.57 MM	6

Application

- For use between two decks which are 406mm [16"] different in height.
- If the component includes guard rails and is predominantly used by 5-12 year olds, the upper deck must be 1220mm [48"] or less.
- If using guard rails and it will be predominantly used by 2-5 year olds, the upper deck must be 762mm [30"] or less.
- Safety Rails are acceptable in all applications.

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.





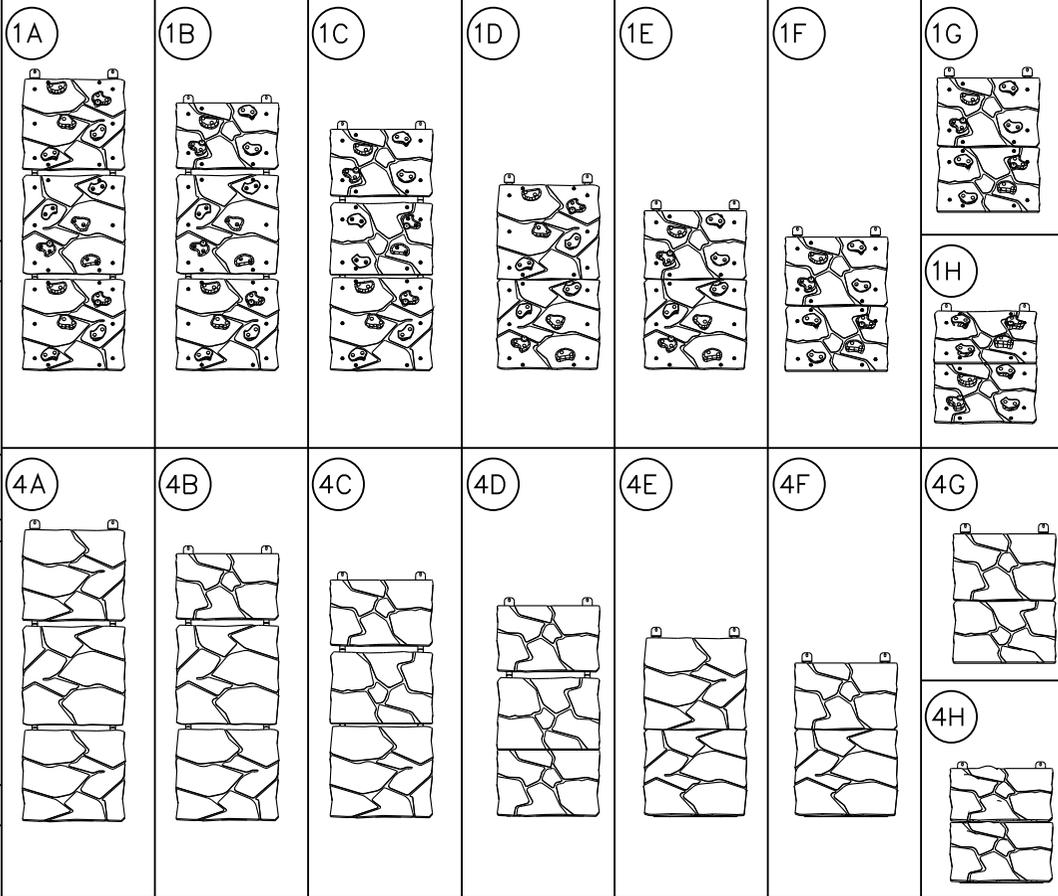
KB TILTED ROCK CHALLENGE WALL / NU-EDGE CHALLENGE WALL

200196344

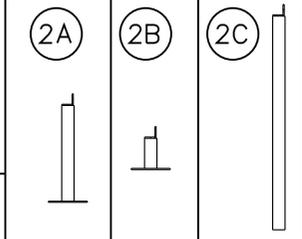
KB300230B

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 32OD 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.



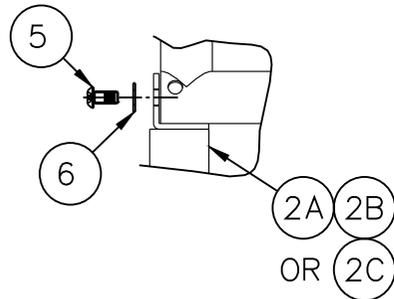
KB TILTED ROCK CHALLENGE WALL / NU-EDGE CHALLENGE WALL

200196344
KB300230B
Sheet 2 of 2

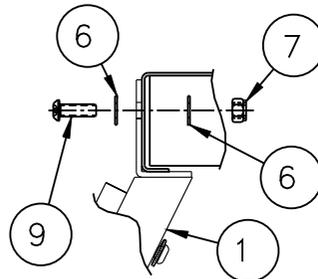
AUTHORIZED BY: 12DEC11
Eric L. Claudus

FOOTING CHART

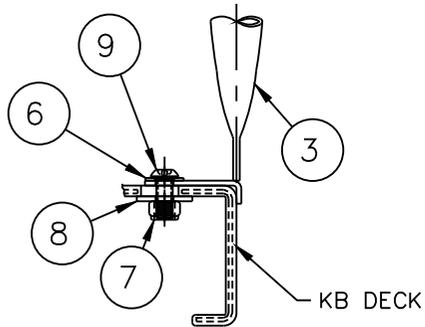
Y	X	Description
2440 (96")	715 (28")	TILTED ROCK CHALLENGE 96"
2235 (88")	431 (17")	TILTED ROCK CHALLENGE 88"
2030 (80")	537.5 (21")	TILTED ROCK CHALLENGE 80"
1830 (72")	614 (24")	TILTED ROCK CHALLENGE 72"
1630 (64")	532 (21")	TILTED ROCK CHALLENGE 64"
1425 (56")	629 (25")	TILTED ROCK CHALLENGE 56"
1220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



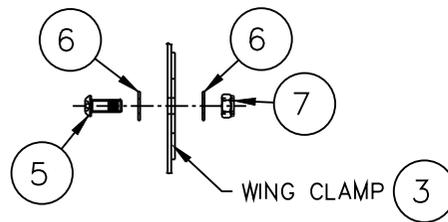
SECTION A-A
1:5
TYP 2 PLACES



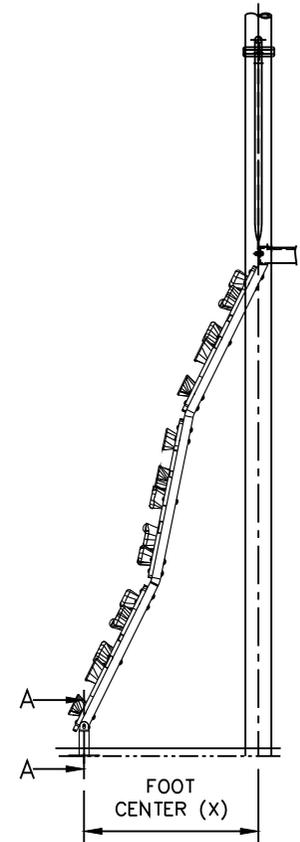
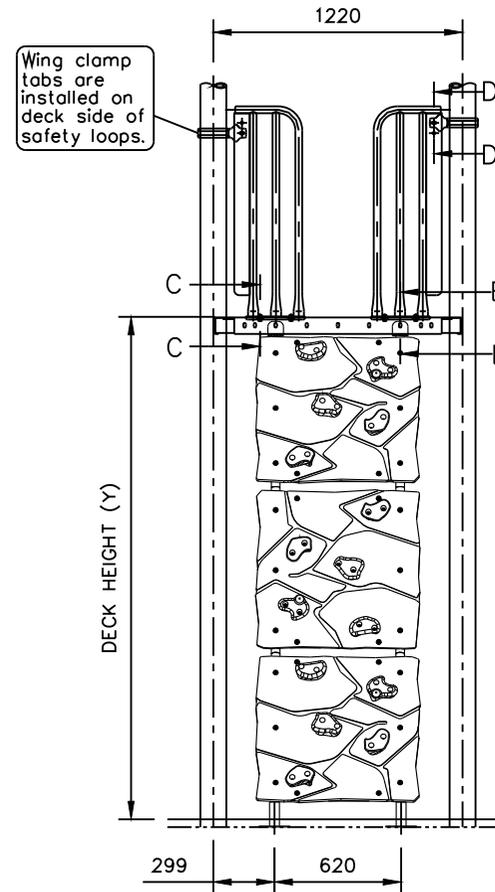
SECTION B-B
1:5



SECTION C-C
1:5
TYP 4 PLACES

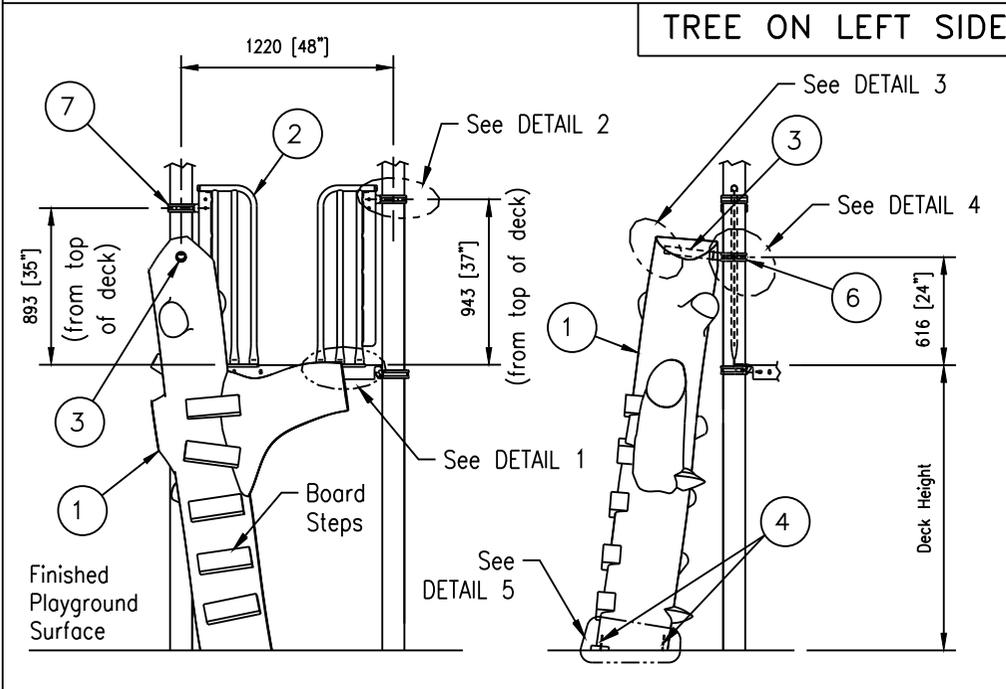


SECTION D-D
1:5
TYP 2 PLACES



NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

Chris M. Anderson
NOTE number of steps will vary with climber height



- NU-EDGE TREE 1830mm [72"] W/KB SAFETY LOOPS 200202732
- NU-EDGE TREE 1625mm [64"] W/KB SAFETY LOOPS 200202733
- NU-EDGE TREE 1422mm [56"] W/KB SAFETY LOOPS 200202734

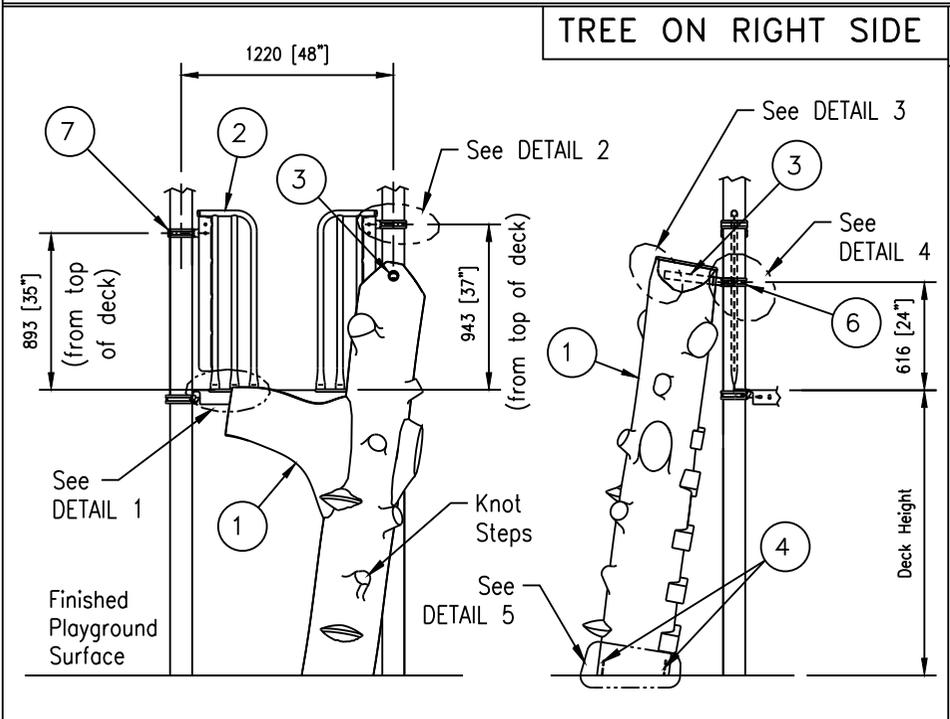
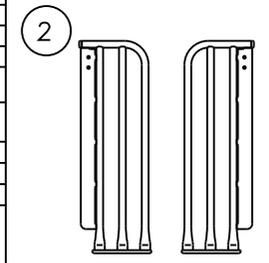
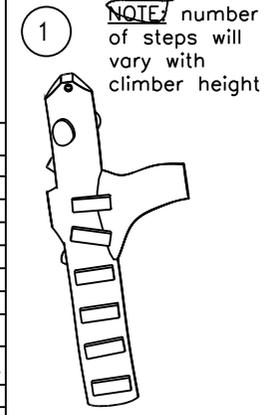
Item	Code	Description	Qty.
1	-	NU-EDGE TREE	1
2	-	SAFETY LOOPS W/O TAB F/KB (LEFT AND RIGHT)	1
3	-	POST BRACKET KB F/NU-EDGE TREE	1
4	-	SUPPORT F/NU-EDGE TREE	2
5	-	PLATE CIRCLE F/NU-EDGE TREE MOUNTING	1
6	-	CLAMP HALF KB	1
7	-	ASSY CLAMP WING F/KB	2

HDWR BAG F/KB TREE W/SAFETY LOOPS 200304862

Item	Code	Description	Qty.
8	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	7
9	200002150	SCREW MACH BUTTONHEAD M10 X 1.5 X 55 MM	2
10	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	8
11	200002079	WASHER FLAT M11 23 X 12 X 1.6	12
12	200002096	WASHER FLAT M10 34 OD X 11ID X 3MM THK	4

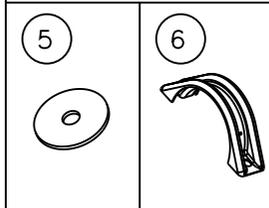
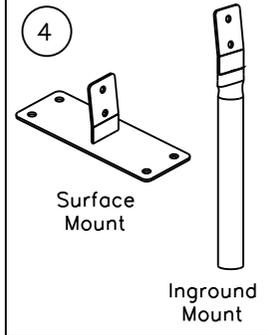
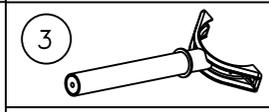
HARDWARE BAG F/HALF CLAMP ASSEMBLY

Item	Code	Description	Qty.
8	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	2
13	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	2
14	200000797	HAMMER DRIVE PIN 4.7 X 11.1MM	2



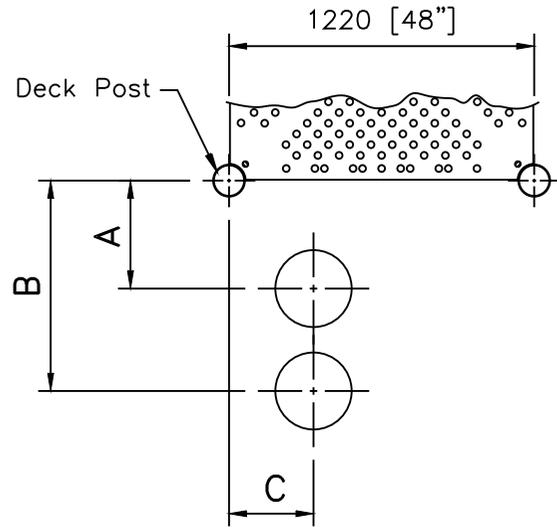
Application
- Cannot be used as sole access to equipment.

- Installation Instructions**
1. Prepare footings. Use 406mm [16"] minimum diameter footings for surface mount installations using concrete pier footings.
 2. Loosely attach the wing clamps to the posts (refer to front of manual for clamp installation details). Wing clamp tabs are installed on deck side of safety loops.
 3. Lift left and right safety loops into place and loosely attach to deck (refer to DETAIL 1).
 4. Loosely attach safety loops to wing clamps (refer to DETAIL 2).
 5. Install post bracket through hole in top of tree (refer to DETAIL 3).
 6. Install tree supports on bottom of tree (refer to DETAIL 5).
 7. Lift tree into place and attach post bracket to post with half clamp (item 6) (refer to DETAIL 4).
 8. Check for level/plumb, tighten all hardware and install clamp hammer drive pins.
 9. Complete footings and install safety surfacing.

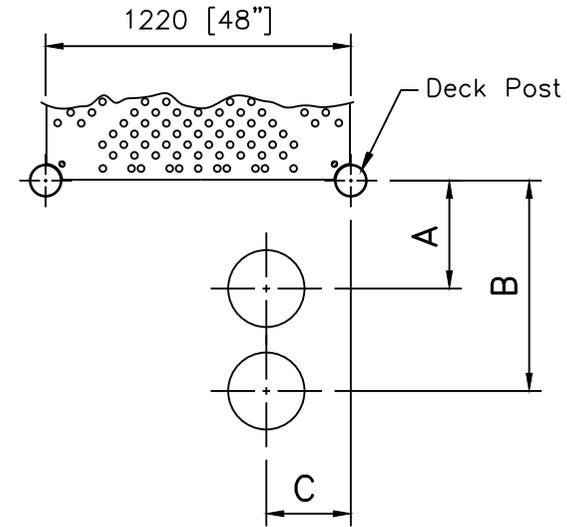


Chris M. [Signature]

FOOTING LAYOUTS



Tree on Left Side of Deck

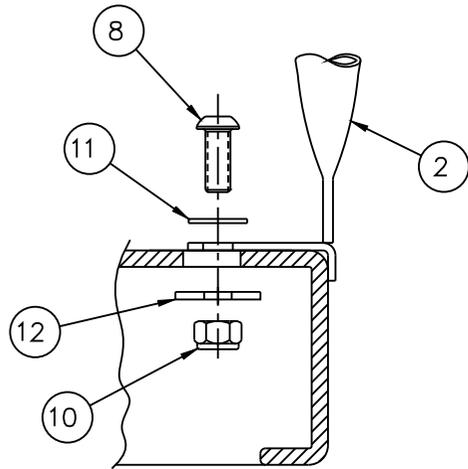


Tree on Right Side of Deck

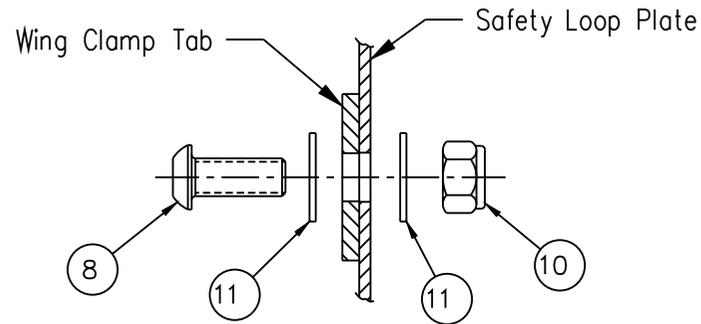
Footing Dimension Table

Deck Height	Ground Cover Options					
	Surface Mount 40mm [1-1/2"]			Surface Mount / Inground Mount 305mm [12"]		
	A	B	C	A	B	C
1830mm [72"]	403 [16"]	809 [32"]	313 [12 1/2"]	428 [17"]	834 [33"]	338 [13 1/2"]
1625mm [64"]	379 [15"]	785 [31"]	288 [11 1/2"]	403 [16"]	809 [32"]	313 [12 1/2"]
1422mm [56"]	354 [14"]	760 [30"]	263 [10 1/2"]	379 [15"]	785 [31"]	288 [11 1/2"]

NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

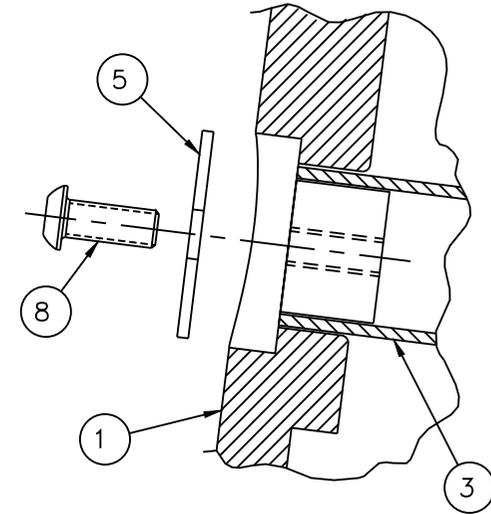


DETAIL 1
Typ 4 Places

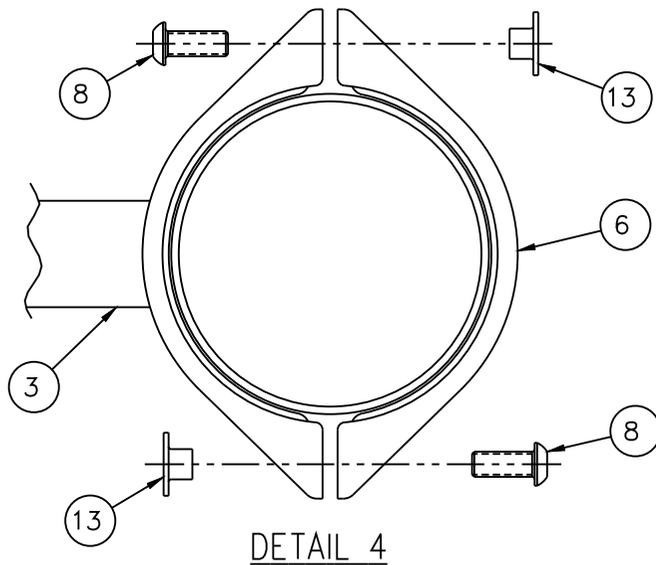


DETAIL 2
Typ 2 Places

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

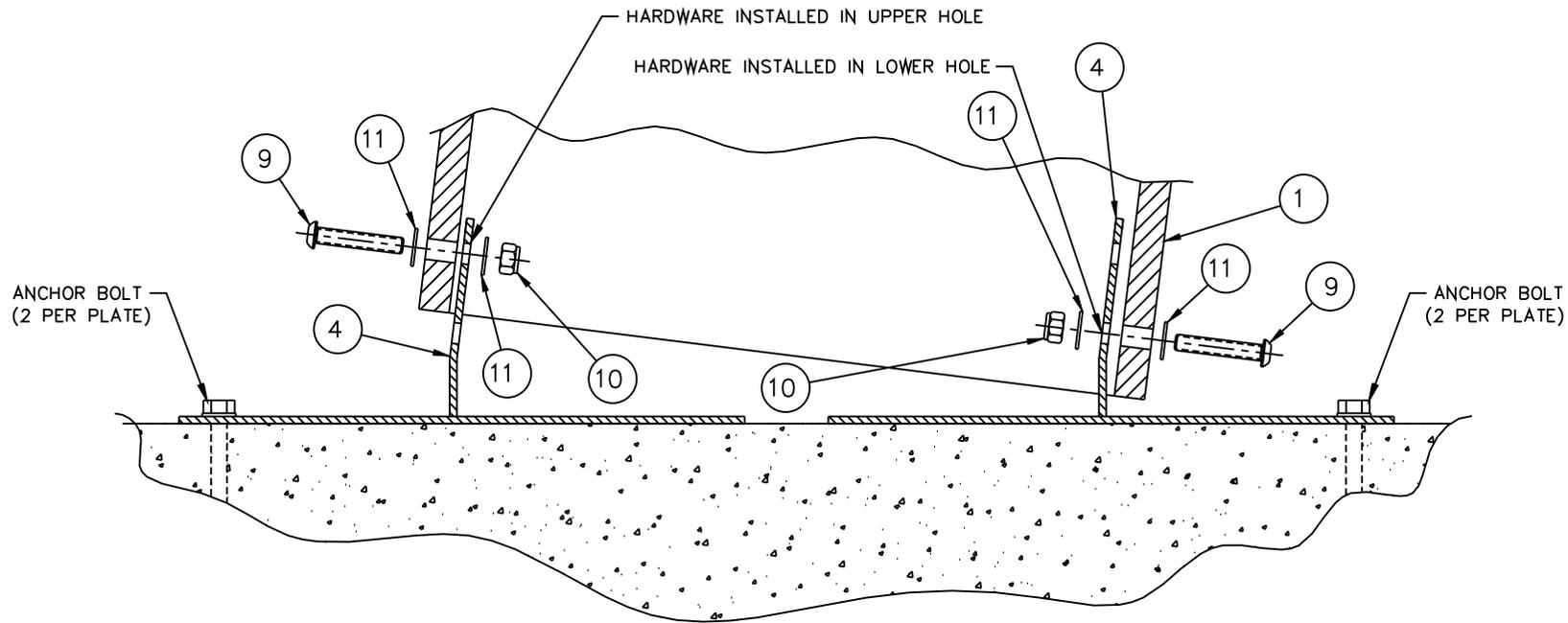


DETAIL 3

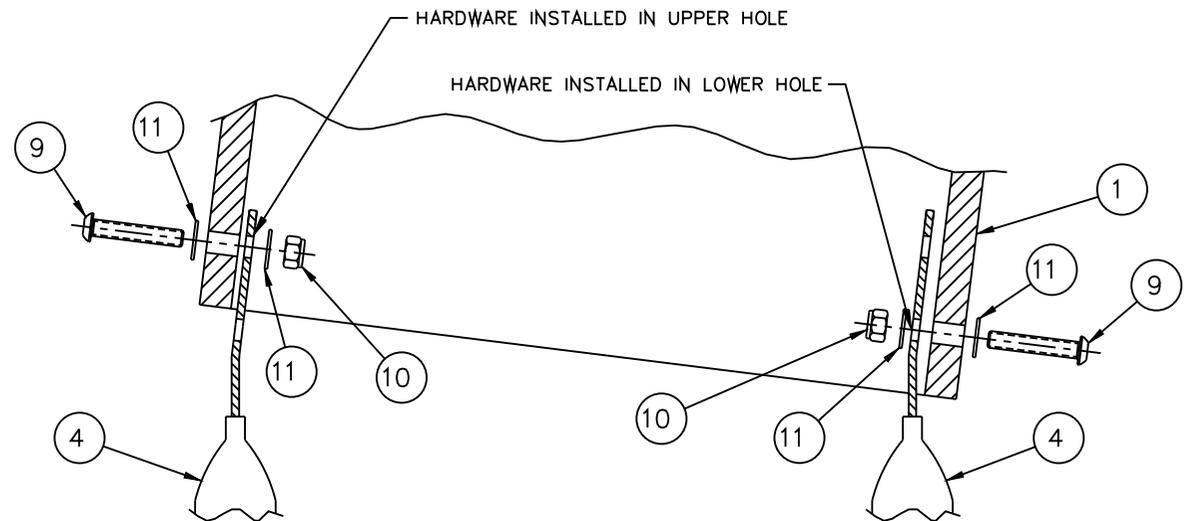


DETAIL 4

AUTHORIZED BY: 20MAR12
Chris M. Anderson



DETAIL 5 (SURFACE MOUNT)



DETAIL 5 (INGROUND MOUNT)

KB Trail Climber

IMPORTANT! Prior to installation of any components refer to the front of the **Manufacturer's Assembly** manual and applicable safety guidelines and/or standards. The *Manufacturer's Assembly Manual* will provide important tips pertaining to **site requirements, footings, hardware** and other necessary information **vital to the success of your installation.**

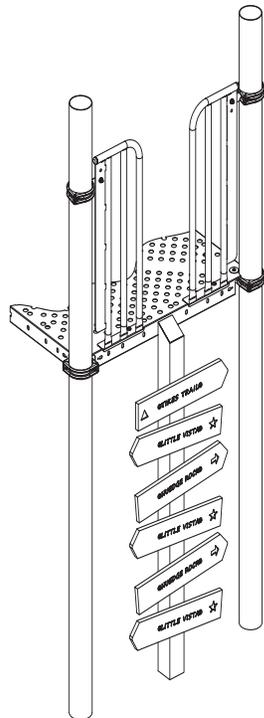
Models included in this installation guide:

<u>MODEL</u>	<u>DESCRIPTION</u>	<u>PAGE</u>
200203460	KB Trail Climber 72"	2, 6
200203459	KB Trail Climber 64"	2, 6
200203458	KB Trail Climber 56"	3, 6
200203457	KB Trail Climber 48"	3, 6
200203537	KB Trail Climber 72" CSA	4, 6
200203536	KB Trail Climber 64" CSA	4, 6
200203535	KB Trail Climber 56" CSA	5, 6
200203534	KB Trail Climber 48" CSA	5, 6

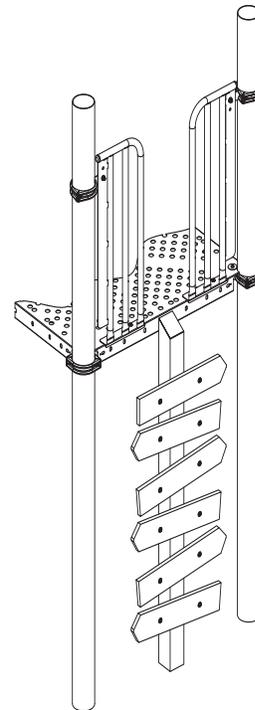
Note:

- Deck system and posts are not included in this assembly.
- An (*) by part numbers (CODE) indicate: Color Code Required.

KB Trail Climber - w/wording



KB Trail Climber CSA - w/out wording



Note: Deck height varies per model.

KB Trail Climber

<i>200203460 KB TRAIL CLIMBER 72"</i>		
CODE	DESCRIPTION	QTY
902878DBW	TRAIL CLIMBER POST ASSY, 72" SM	1
902877DBW	TRAIL CLIMBER POST ASSY, 72" 305SM	
902879DBW	TRAIL CLIMBER POST ASSY, 72" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
903054	TRAIL CLIMBER SIGN, TRIANGLE	1
903055	TRAIL CLIMBER SIGN, STAR	3
903053	TRAIL CLIMBER SIGN, ARROW	2
925165	WOOD SIGN KIT F/72" TRAIL CLIMBER	1
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

<i>200203459 KB TRAIL CLIMBER 64"</i>		
CODE	DESCRIPTION	QTY
902881DBW	TRAIL CLIMBER POST ASSY, 64" SM	1
902880DBW	TRAIL CLIMBER POST ASSY, 64" 305SM	
902882DBW	TRAIL CLIMBER POST ASSY, 64" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
903054	TRAIL CLIMBER SIGN, TRIANGLE	1
903055	TRAIL CLIMBER SIGN, STAR	2
903053	TRAIL CLIMBER SIGN, ARROW	2
925614	WOOD SIGN KIT F/64"/56"TRAIL CLIMBER	1
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

KB Trail Climber

<i>200203458 KB TRAIL CLIMBER 56"</i>		
CODE	DESCRIPTION	QTY
902884DBW	TRAIL CLIMBER POST ASSY, 56" SM	1
902883DBW	TRAIL CLIMBER POST ASSY, 56" 305SM	
902885DBW	TRAIL CLIMBER POST ASSY, 56" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
903054	TRAIL CLIMBER SIGN, TRIANGLE	1
903055	TRAIL CLIMBER SIGN, STAR	2
903053	TRAIL CLIMBER SIGN, ARROW	2
925164	WOOD SIGN KIT F/64"/56"TRAIL CLIMBER	1
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

<i>200203457 KB TRAIL CLIMBER 48"</i>		
CODE	DESCRIPTION	QTY
902887DBW	TRAIL CLIMBER POST ASSY, 56" SM	1
902886DBW	TRAIL CLIMBER POST ASSY, 56" 305SM	
902888DBW	TRAIL CLIMBER POST ASSY, 56" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
903054	TRAIL CLIMBER SIGN, TRIANGLE	1
903055	TRAIL CLIMBER SIGN, STAR	2
903053	TRAIL CLIMBER SIGN, ARROW	1
925163	WOOD SIGN KIT F/48" TRAIL CLIMBER	1
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

KB Trail Climber

KB300442

KB Trail Climber

<i>200203537 KB TRAIL CLIMBER 72" CSA</i>		
CODE	DESCRIPTION	QTY
902878DBW	TRAIL CLIMBER POST ASSY, 72" SM	1
902877DBW	TRAIL CLIMBER POST ASSY, 72" 305SM	
902879DBW	TRAIL CLIMBER POST ASSY, 72" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
925159	TRAIL CLIMBER SIGN, W/O TEXT	6
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

<i>200203536 KB TRAIL CLIMBER 64" CSA</i>		
CODE	DESCRIPTION	QTY
902881DBW	TRAIL CLIMBER POST ASSY, 64" SM	1
902880DBW	TRAIL CLIMBER POST ASSY, 64" 305SM	
902882DBW	TRAIL CLIMBER POST ASSY, 64" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
925159	TRAIL CLIMBER SIGN, W/O TEXT	5
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

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KB Trail Climber

<i>200203535 KB TRAIL CLIMBER 56" CSA</i>		
CODE	DESCRIPTION	QTY
902884DBW	TRAIL CLIMBER POST ASSY, 64" SM	1
902883DBW	TRAIL CLIMBER POST ASSY, 64" 305SM	
902885DBW	TRAIL CLIMBER POST ASSY, 64" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
925159	TRAIL CLIMBER SIGN, W/O TEXT	5
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

<i>200203534 KB TRAIL CLIMBER 48" CSA</i>		
CODE	DESCRIPTION	QTY
902887DBW	TRAIL CLIMBER POST ASSY, 64" SM	1
902886DBW	TRAIL CLIMBER POST ASSY, 64" 305SM	
902888DBW	TRAIL CLIMBER POST ASSY, 64" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
925159	TRAIL CLIMBER SIGN, W/O TEXT	4
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

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KB Trail Climber

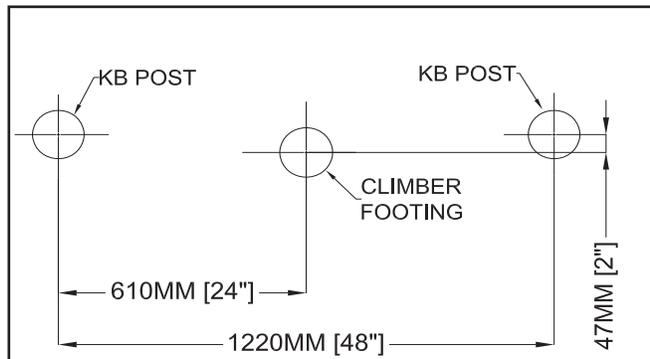
KB300442

KB Trail Climber

Note: Hardware packages are used for all eight (8) KB Trail Climbers w/words and w/o words.

HRDW PKG F/2SETS O/CLAMPS S1/1 HW2CLMPSET-1		
CODE	DESCRIPTION	QTY
200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	4
200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	4
200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	4
HRDW PKG KB TRAIL CLIMBER S1/2 HW906362-1		
CODE	DESCRIPTION	QTY
200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	6
200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM	1
200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	6
200002079	WASHER FLAT M11 23 X 12 X 1.6MM	9
200002096	WASHER FLAT M10 34 OD X 11 ID X 3MM SS	4
HRDW PKG KB TRAIL CLIMBER L2/2 HW906362-2		
CODE	DESCRIPTION	QTY
104286	BOLT 3/8-16 X 1 BHCS 6 LOBE 18-8 SS	12
110162	NUT 3/8-16 X 1 BARREL LENGTH, BUTTON HEAD	12
117005	WASHER 3/8 X 1 O.D. FLAT 18-8 SS	12
104480	BIT 6 LOBE T-45 FOR 3/8 BOLTS	1
104481	BIT 6 LOBE T-55 FOR 1/2 BOLTS	1

Footing Layout - for both KB Trail Climber w/words and w/o words.



KB Trail Climber

STEP 1 DECK AND POST FOOTINGS

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

1b. Deck Height Options:

- 1830MM [72"]
- 1625MM [64"]
- 1422MM [56"]
- 1220MM [48"]

Note: Deck Height Options are the same for KB Trail Climber CSA.

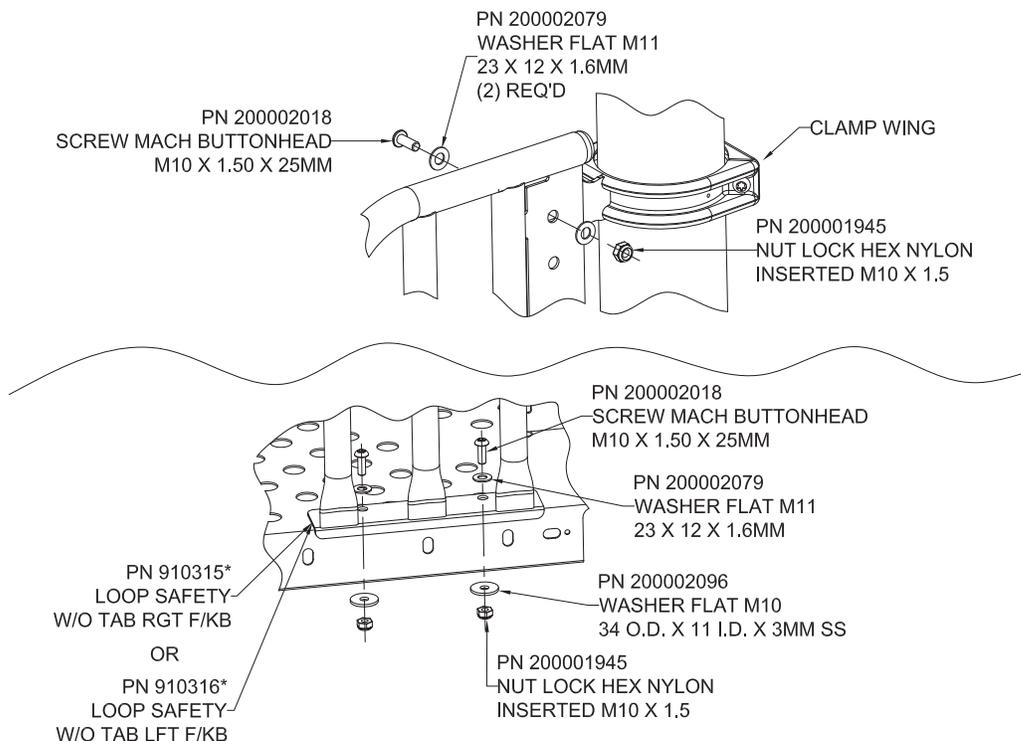
STEP 2 ASSEMBLE WING CLAMPS

2a. *Loosely* assemble wing clamps on posts per clamp installation details in the installation manual .

STEP 3 ATTACH SAFETY LOOPS TO DECK

3a. *Loosely* attach safety loops to deck and to wing clamps/post as shown below.

3b. Install wing clamp tabs on deck side of safety loop.



KB Trail Climber

KB300442

KB Trail Climber

STEP 4 ATTACH BOARDS WITH INSERTS

4a. Attach boards with inserts to the climber post as shown.

Note: See Figures 1, 2, 3 and 4 for surface mount and inground climber posts.

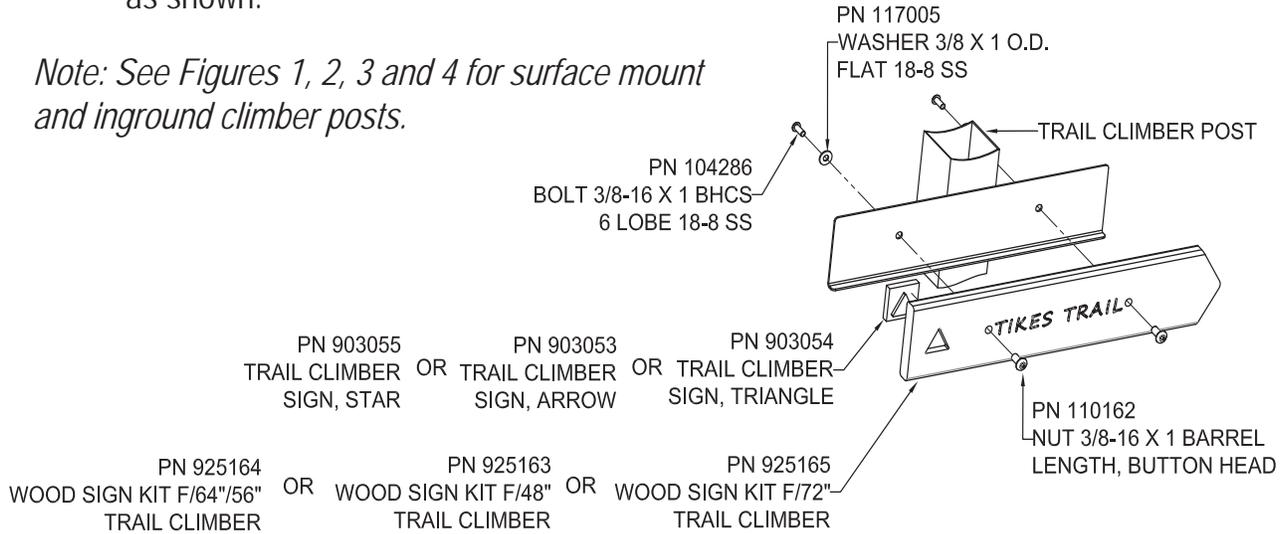


Figure 1. 1830MM [72"]

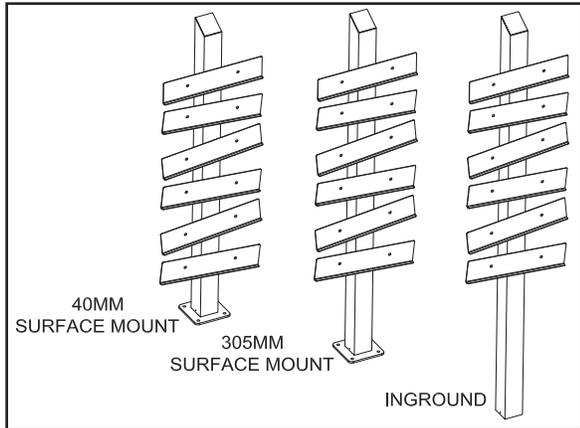


Figure 2. 1625MM [64"]

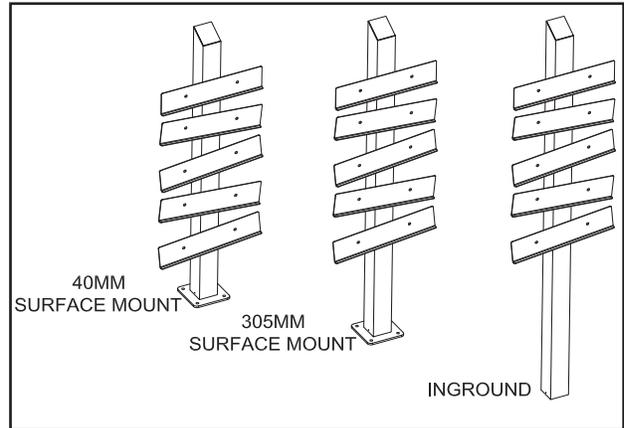


Figure 3. 1422MM [56"]

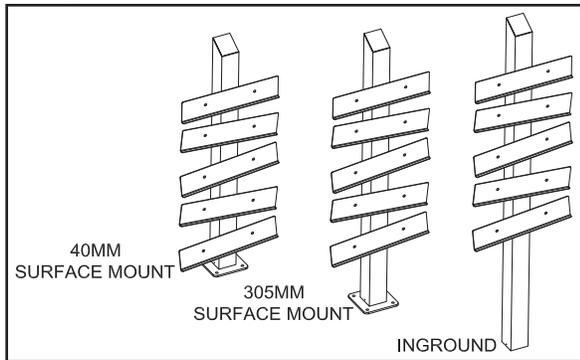
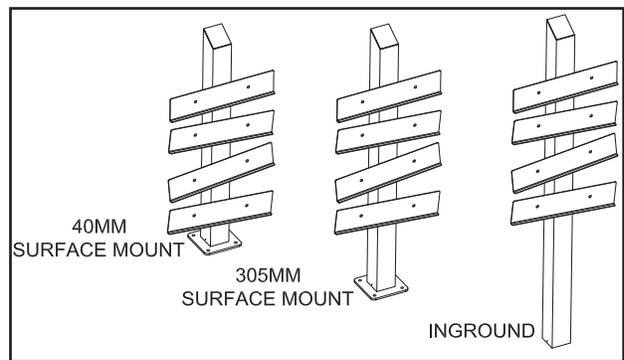


Figure 4. 1220MM [48"]



KB Trail Climber

STEP 4 ATTACH BOARDS WITH INSERTS cont.

4b. Follow the insert locations, as shown below, for each climber post height.

Note: See Figures 5, 6, 7 and 8 for insert locations.

Figure 5. 1830MM [72"]

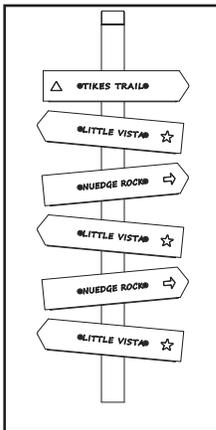


Figure 6. 1625MM [64"]

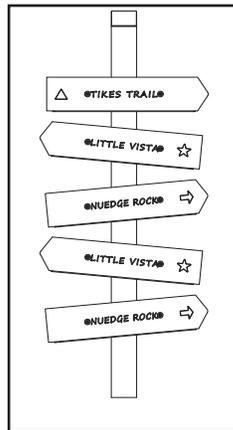


Figure 7. 1422MM [56"]

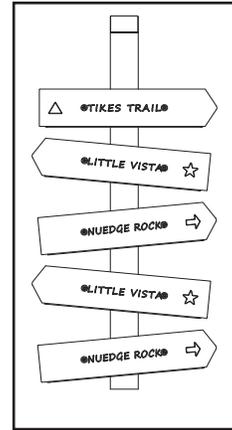
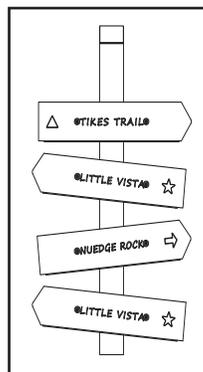


Figure 8. 1220MM [48"]



KB Trail Climber

STEP 5 ATTACH BOARDS W/OUT INSERTS/WORDING FOR CSA MODELS

5a. Attach boards to the climber post as shown below.

Note: See Figures 9, 10, 11 and 12 for board placement. Refer to Figures 1, 2, 3 and 4 for surface mount and inground climber posts.

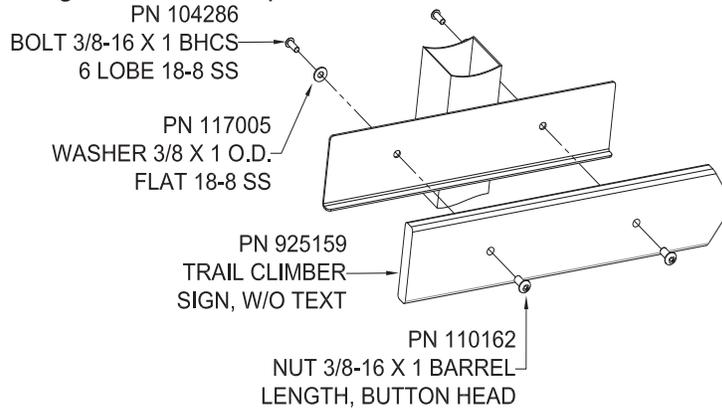


Figure 9. 1830MM [72"]

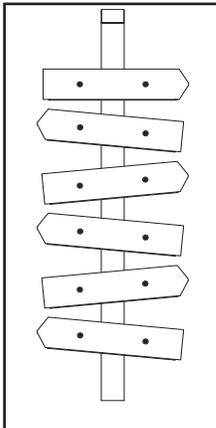


Figure 10. 1625MM [64"]

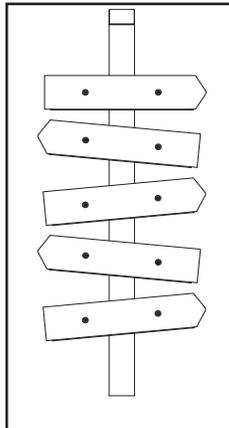


Figure 11. 1422MM [56"]

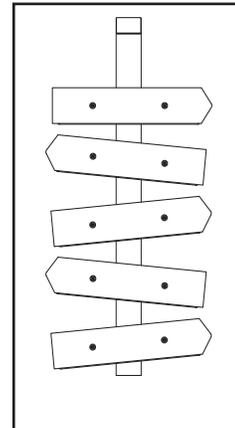
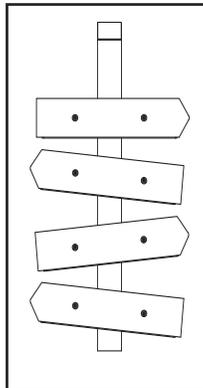


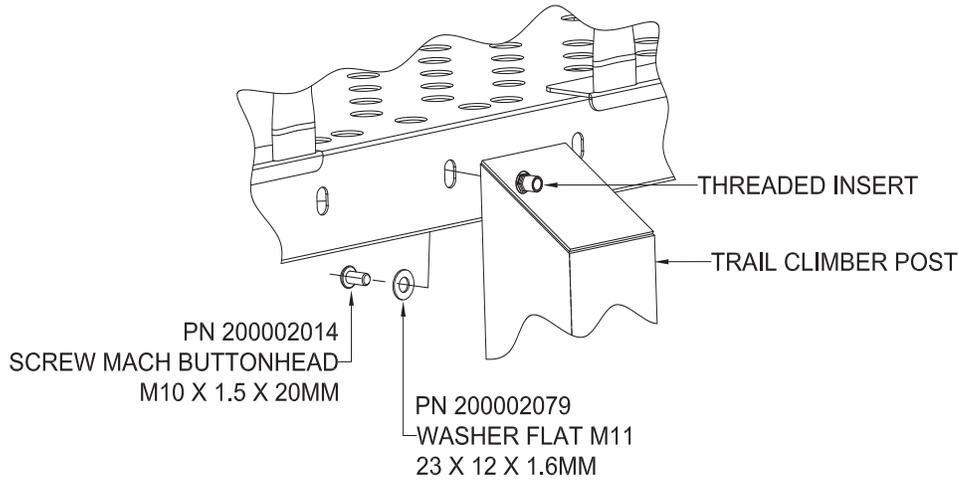
Figure 12. 1220MM [48"]



KB Trail Climber

STEP 6 ATTACH POST CLIMBER TO DECK

6a. Attach the post climber to the deck face as shown below.



6b. Tighten all hardware and install clamp drive pins.

FINAL STEP

Proceed with *Final Assembly installation*.

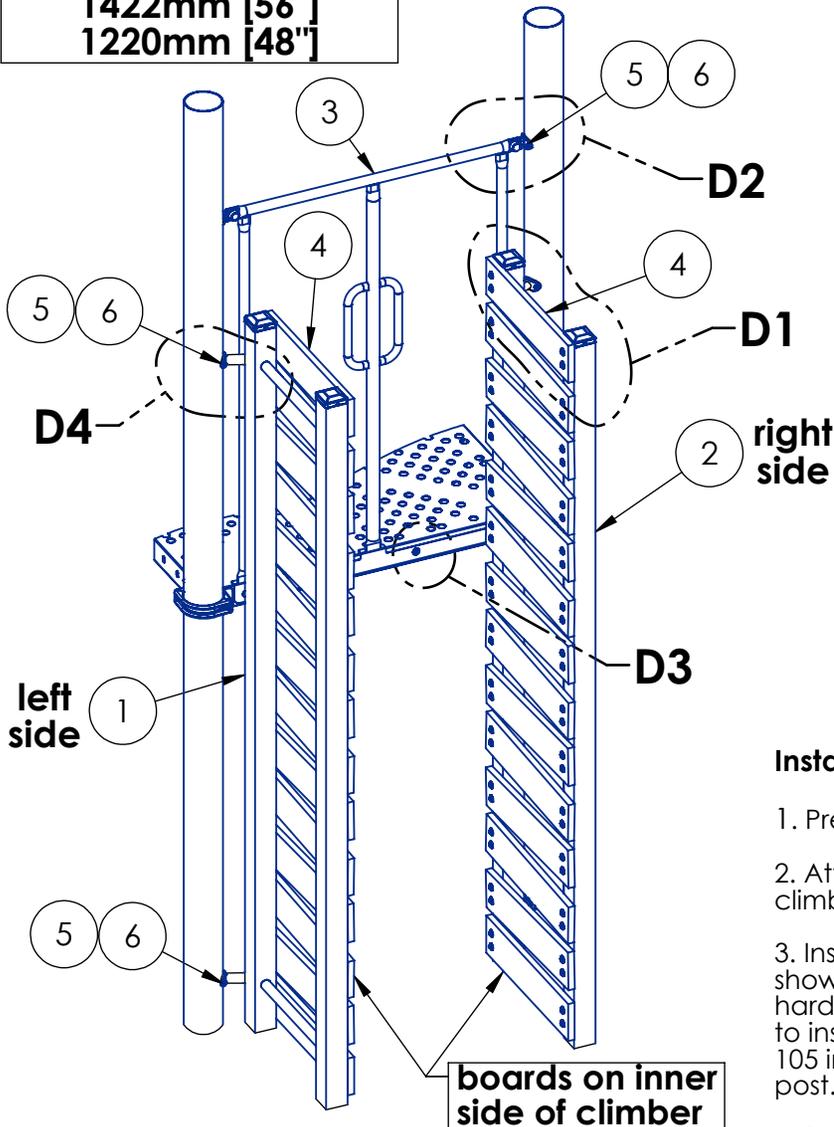
INST F/KB DBL WALL CLIMBER

KB300443B
SHEET 1 OF 6

AUTHORIZED BY: 05FEB19
Tracy Archer

Deck Height Options:
1625mm [64"]
1422mm [56"]
1220mm [48"]

1625mm [64"] PARTS LIST



1625mm [64"] CLIMBER SHOWN

14 boards each side on 1625mm
13 boards each side on 1422mm
12 boards each side on 1220mm

FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

KB DBL WALL CLIMBER 64" 200203467			
Item	Code	Description	Qty
1A	902861DBW	DOUBLE WALL CLIMBER ASSY, LH 64" SM	1
	902860DBW	DOUBLE WALL CLIMBER ASSY, LH 64" 305SM	
	902862DBW	DOUBLE WALL CLIMBER ASSY, LH 64" ING	
2A	902852DBW	DOUBLE WALL CLIMBER ASSY, RH 64" SM	1
	902851DBW	DOUBLE WALL CLIMBER ASSY, RH 64" 305SM	
	902853DBW	DOUBLE WALL CLIMBER ASSY, RH 64" ING	
3	910031*	ENCL. KB VERSA-CLIMB	1
4	925157	DOUBLE WALL CLIMBER BOARD	28
5	910340*	TAB RAIL 33.4 F/PB	4
6	200058372	GASKET F/PB TABS (SMALL)	6
7	910918*	CAP HARDWARE BASE	2
8	910917*	CAP HDWR COVER	2
9	HW925157-1	HRDW PKG KB DBL WALL CLIMBR S1/2	1
10	HW925157-2	HRDW PKG KB DBL WALL CLIMBR S2/2	14

HRDW PKG KB DBL WALL CLIMBR S1/2 - HW925157-1

11	300002750	SCREW T-27 TORX ROUND WASHER HD	12
12	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	4
13	200002030	SCREW MACH BUTTON HEAD M10 X 1.5 X 30mm	2
14	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	6
15	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	10
16	200066126	DRIVER BIT T-27 TAMPER-RESISTANT F/PB	1

HRDW PKG KB DBL WALL CLIMBR S2/2 - HW925157-2

17	200002150	SCREW MACH BUTTONHEAD M10 X 1.5 X 55MM	8
18	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	8

Installation Instructions

1. Prepare footings.
2. Attach boards to the left and right climbers as shown in DETAIL 1.
3. Install enclosure onto deck and post as shown in DETAILS 2 and 3. Do not install hardware caps yet. Use driver bit (item 15) to install T-27 screws. **NOTE:** do not exceed 105 in-lbs torque when installing screws to post.
4. **Surface mount** climbers will have the letter "L" for left side, and "R" for right side on the surface mount footing plates.
For **inground mount**, block climbers up to correct height as shown on sheet 3.

Note: An (*) by a part number (CODE) indicate: Color Code Required.

Climbers should be placed with the boards positioned on the inner side of the climbers. Attach the wall climbers to the posts as shown in DETAIL 4. Use driver bit (item 15) to install T-27 screws. **NOTE:** do not exceed 105 in-lbs torque when installing screws to post.

5. Check wall climbers for level and plumb. Distance between left and right boards is 768mm [30"] as shown on sheet 3.

6. Tighten all hardware and install hardware covers.

7. Complete footings and install resilient surfacing.

INST F/KB DBL WALL CLIMBER

KB300443B
SHEET 2 OF 6

AUTHORIZED BY: 05FEB19
Tracy Archer

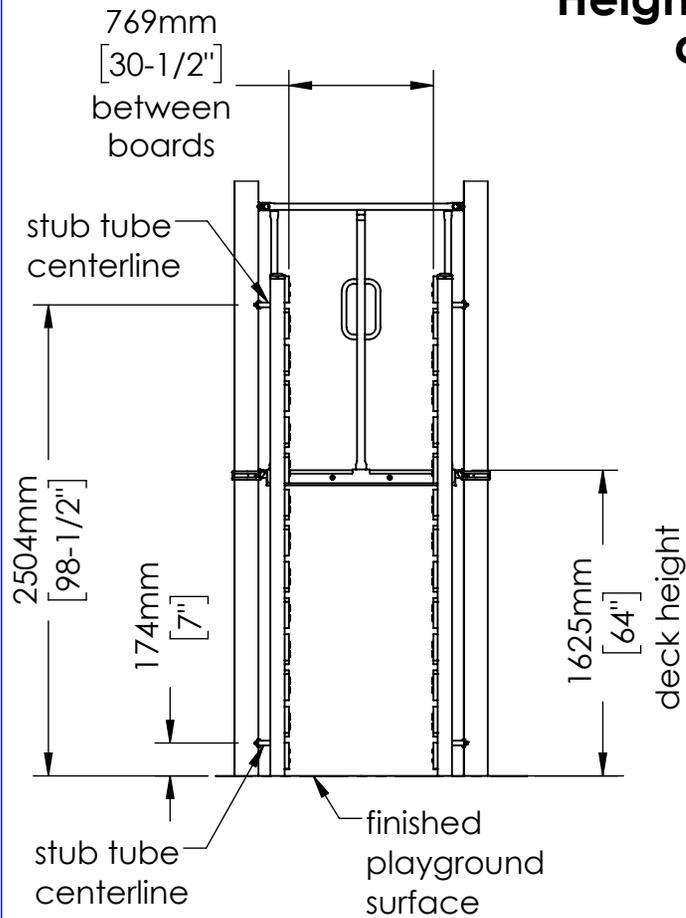
1422mm [56"] PARTS LIST

KB DBL WALL CLIMBER 56" 200203466			
Item	Code	Description	Qty
1B	902864DBW	DOUBLE WALL CLIMBER ASSY, LH 56" SM	1
	902863DBW	DOUBLE WALL CLIMBER ASSY, LH 56" 305SM	
	902865DBW	DOUBLE WALL CLIMBER ASSY, LH 56" ING	
2B	902855DBW	DOUBLE WALL CLIMBER ASSY, RH 56" SM	1
	902854DBW	DOUBLE WALL CLIMBER ASSY, RH 56" 305SM	
	902856DBW	DOUBLE WALL CLIMBER ASSY, RH 56" ING	
3	910031*	ENCL. KB VERSA-CLIMB	1
4	925157	DOUBLE WALL CLIMBER BOARD	26
5	910340*	TAB RAIL 33.4 F/PB	4
6	200058372	GASKET F/PB TABS (SMALL)	6
7	910918*	CAP HARDWARE BASE	2
8	910917*	CAP HDWR COVER	2
9	HW925157-1	HRDW PKG KB DBL WALL CLIMBR S1/2	1
10	HW925157-2	HRDW PKG KB DBL WALL CLIMBR S2/2	13
HRDW PKG KB DBL WALL CLIMBR S1/2 - HW925157-1			
11	300002750	SCREW T-27 TORX ROUND WASHER HD	12
12	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	4
13	200002030	SCREW MACH BUTTON HEAD M10 X 1.5 X 30mm	2
14	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	6
15	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	10
16	200066126	DRIVER BIT T-27 TAMPER-RESISTANT F/PB	1
HRDW PKG KB DBL WALL CLIMBR S2/2 - HW925157-2			
17	200002150	SCREW MACH BUTTONHEAD M10 X 1.5 X 55MM	8
18	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	8

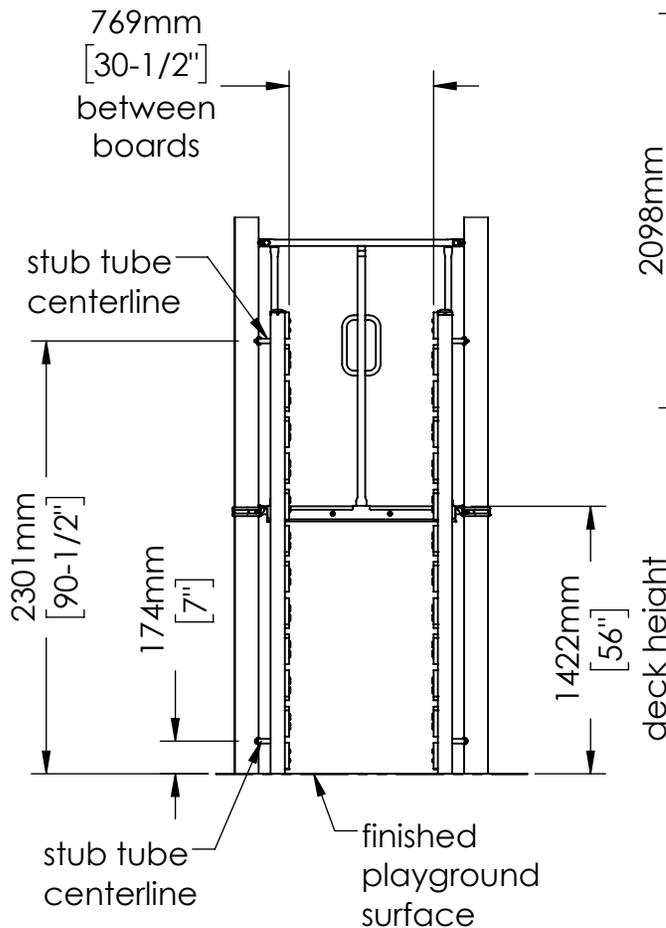
1220mm [48"] PARTS LIST

KB DBL WALL CLIMBER 48" 200203465			
Item	Code	Description	Qty
1C	902867DBW	DOUBLE WALL CLIMBER ASSY, LH 48" SM	1
	902866DBW	DOUBLE WALL CLIMBER ASSY, LH 48" 305SM	
	902868DBW	DOUBLE WALL CLIMBER ASSY, LH 48" ING	
2C	902858DBW	DOUBLE WALL CLIMBER ASSY, RH 48" SM	1
	902857DBW	DOUBLE WALL CLIMBER ASSY, RH 48" 305SM	
	902859DBW	DOUBLE WALL CLIMBER ASSY, RH 48" ING	
3	910031*	ENCL. KB VERSA-CLIMB	1
4	925157	DOUBLE WALL CLIMBER BOARD	24
5	910340*	TAB RAIL 33.4 F/PB	4
6	200058372	GASKET F/PB TABS (SMALL)	6
7	910918*	CAP HARDWARE BASE	2
8	910917*	CAP HDWR COVER	2
9	HW925157-1	HRDW PKG KB DBL WALL CLIMBR S1/2	1
10	HW925157-2	HRDW PKG KB DBL WALL CLIMBR S2/2	12
HRDW PKG KB DBL WALL CLIMBR S1/2 - HW925157-1			
11	300002750	SCREW T-27 TORX ROUND WASHER HD	12
12	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	4
13	200002030	SCREW MACH BUTTON HEAD M10 X 1.5 X 30mm	2
14	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	6
15	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	10
16	200066126	DRIVER BIT T-27 TAMPER-RESISTANT F/PB	1
HRDW PKG KB DBL WALL CLIMBR S2/2 - HW925157-2			
17	200002150	SCREW MACH BUTTONHEAD M10 X 1.5 X 55MM	8
18	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	8

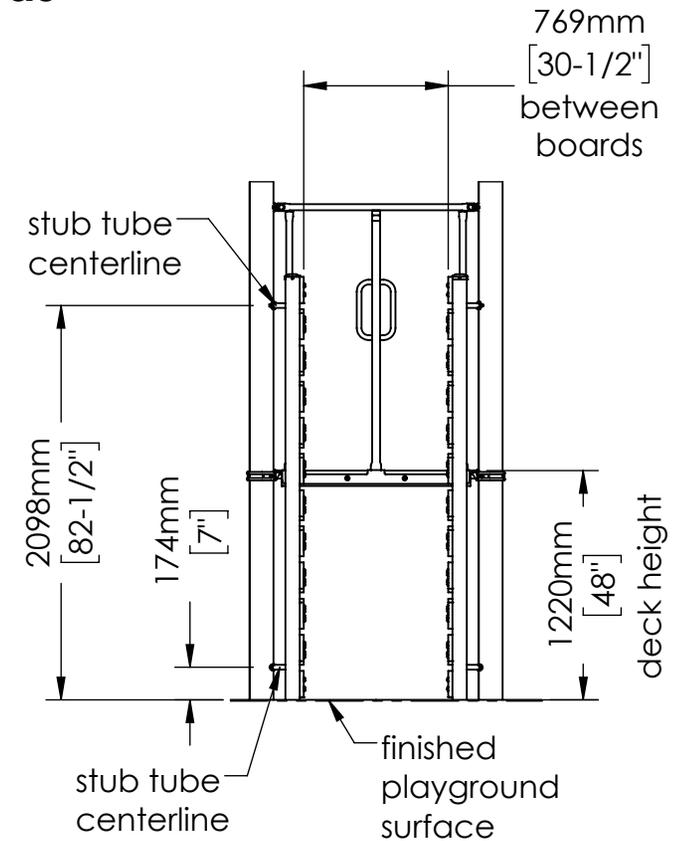
Height from Finished Playground Surface and Distance between Boards



**1625mm [64"]
deck height**



**1422mm [56"]
deck height**



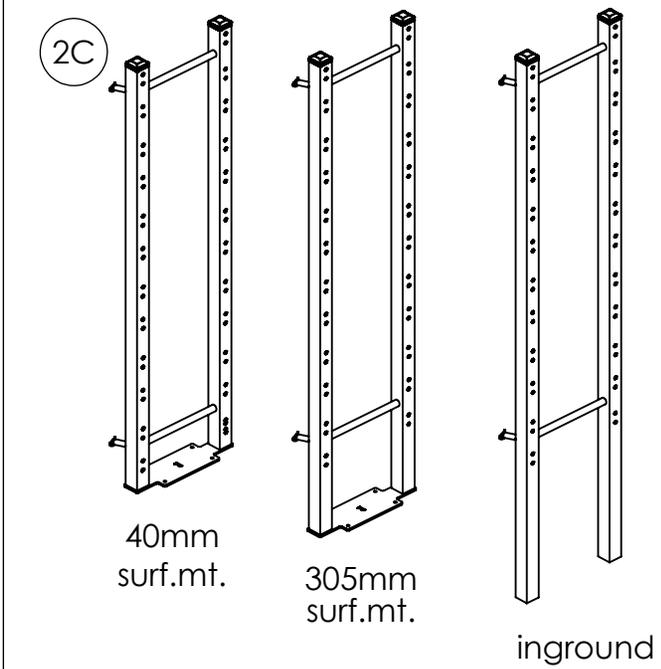
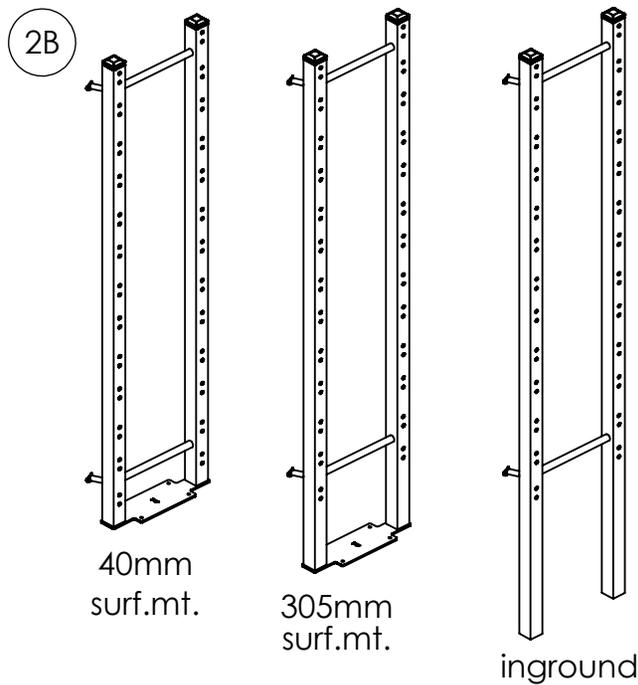
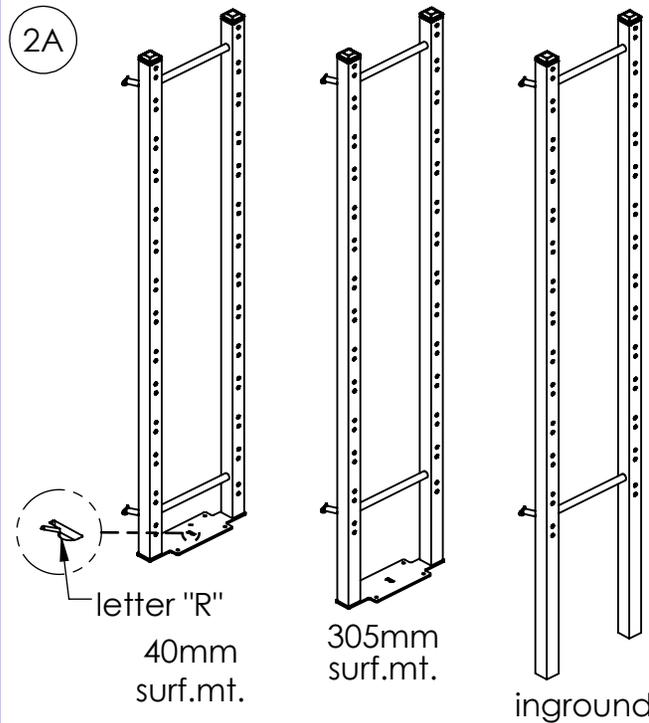
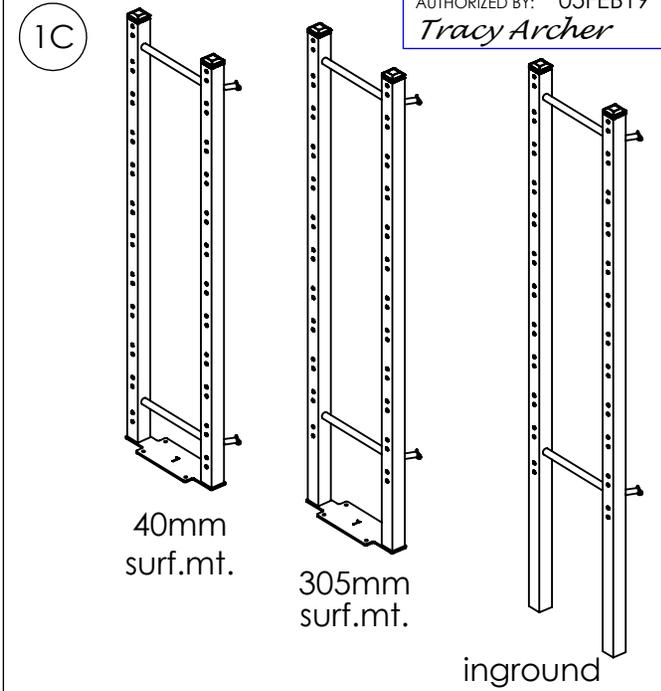
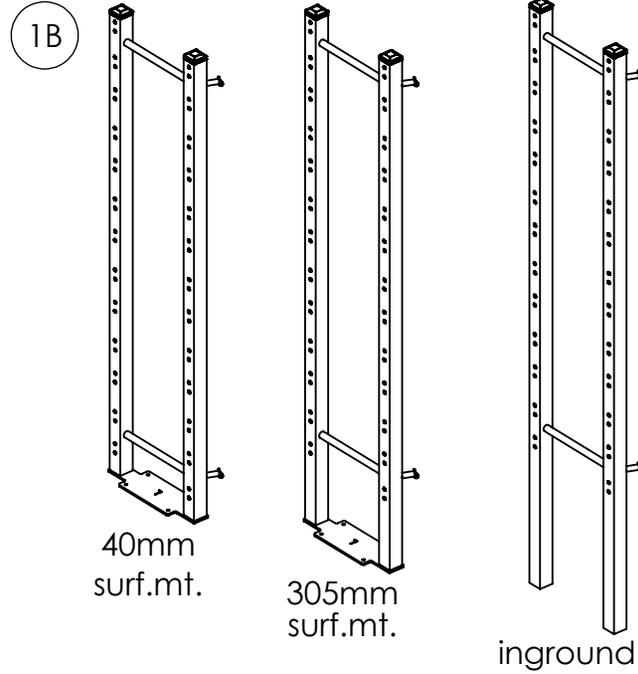
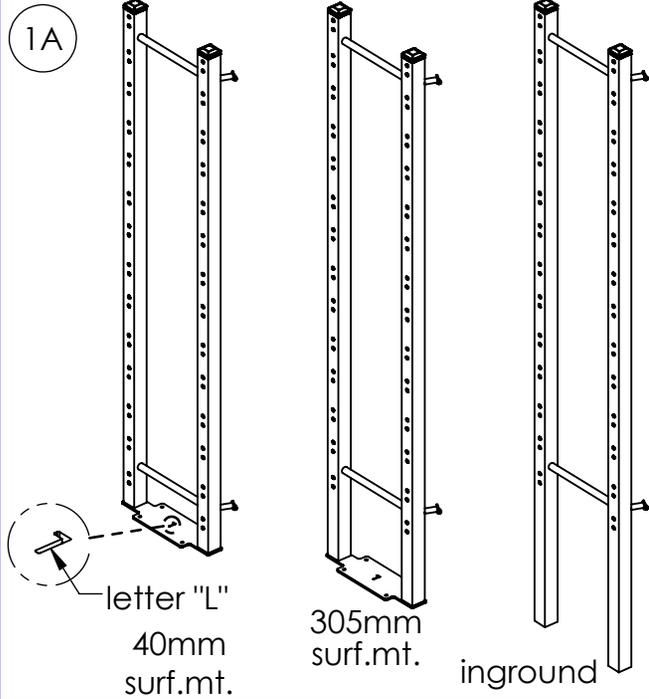
**1220mm [48"]
deck height**

INST F/KB DBL WALL CLIMBER

KB300443B

SHEET 4 OF 6

AUTHORIZED BY: 05FEB19
Tracy Archer

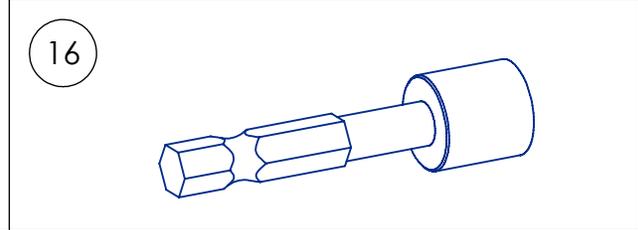
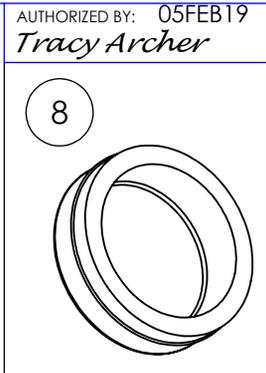
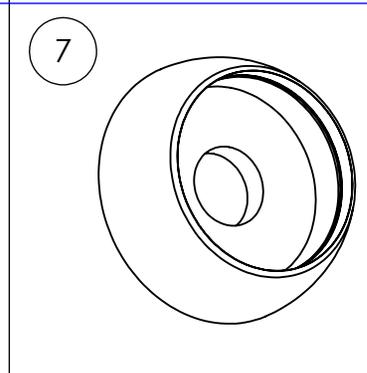
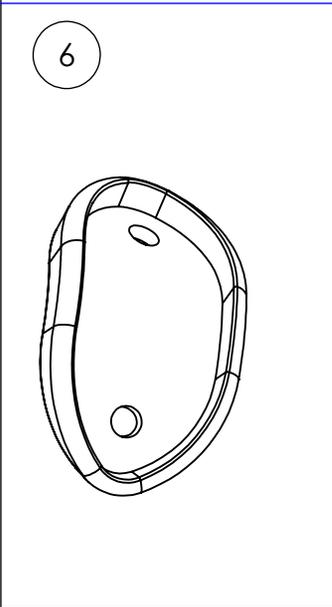
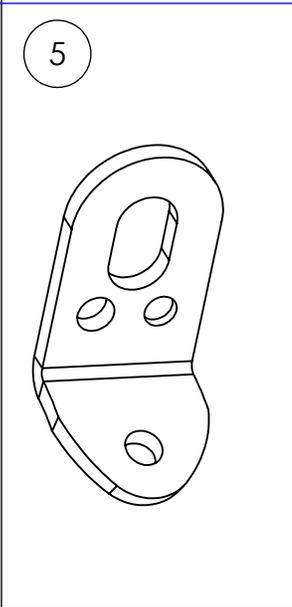
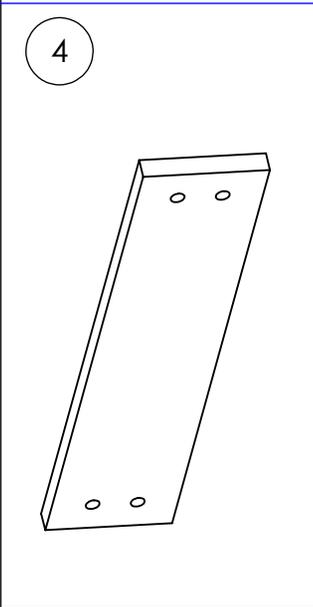
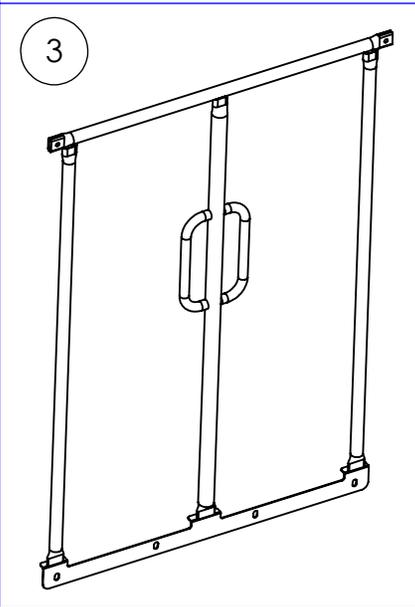


INST F/KB DBL WALL CLIMBER

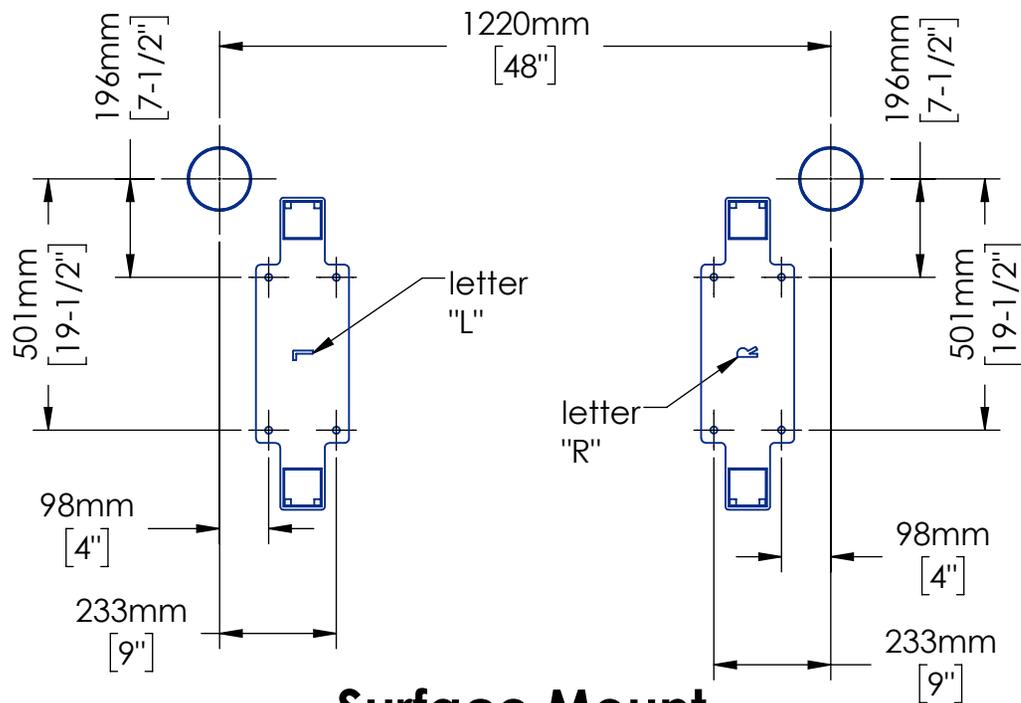
KB300443B

SHEET 5 OF 6

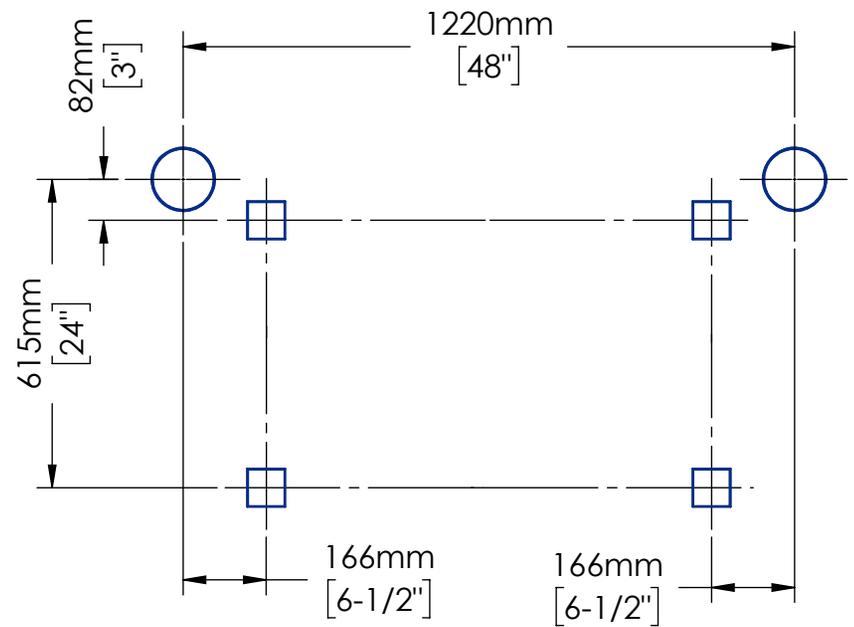
AUTHORIZED BY: 05FEB19
Tracy Archer



Footing Dimensions



Surface Mount



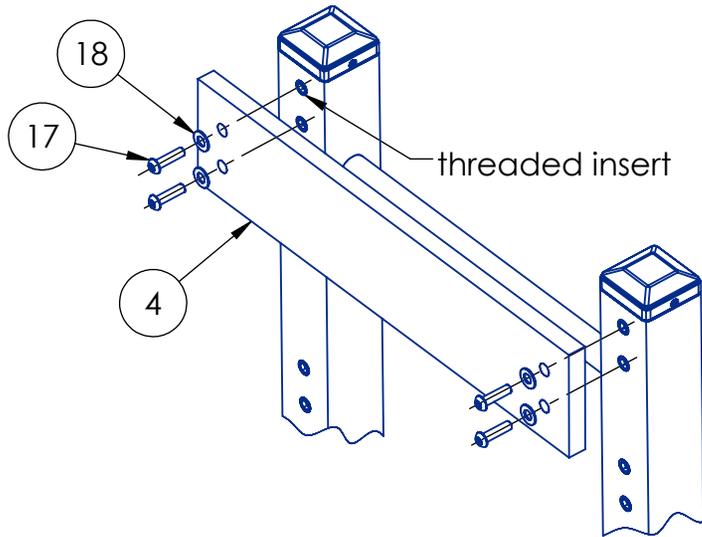
Inground Mount

INST F/KB DBL WALL CLIMBER

KB300443B

SHEET 6 OF 6

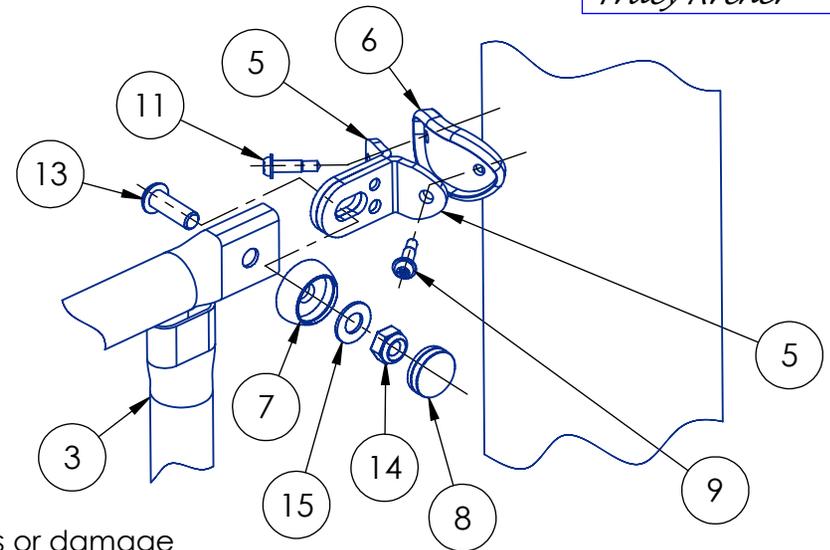
AUTHORIZED BY: 05FEB19
Tracy Archer



DETAIL 1

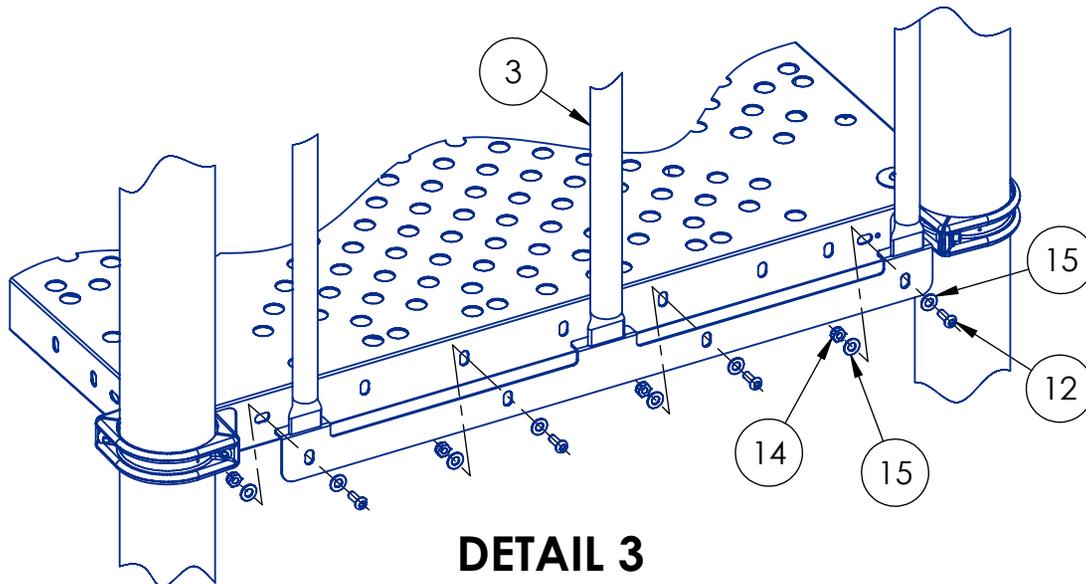
- Typ 28 Places [1625mm]
- Typ 26 Places [1422mm]
- Typ 24 Places [1220mm]

Note: DO NOT over tighten bolts or damage may occur to the PVC coatings on components. Bolts have a thread lock patch. It is not necessary that the bolt extend into the nylon portion of the Nylock nut.

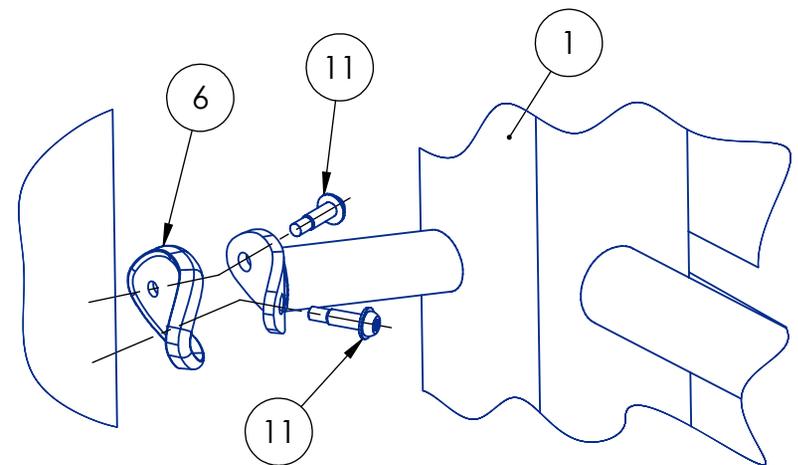


DETAIL 2

Typ 2 Places



DETAIL 3



DETAIL 4

Typ 4 Places

WAVY CHALLENGE LADDER
200013877

AUTHORIZED BY:
Chris M. Newberry 20JUN07

Item	Code	Description	Qty.
1	-	WAVY BEAM CHALLENGE LADDER 2440 F/KB	1
2	-	RAIL CLAMP - W/WEDGE/30 DEG. ATTACH.	4

Application
-For ages 2-5 or 5-12.

Installation Instructions

1. Prepare footings
2. Install posts.
3. Slide four wedge clamps onto Challenge Ladder stubs.
4. Position Challenge Ladder at proper height and attach wedge clamps to posts (Refer to the front of the manual for clamp installation detail).
5. Tighten all hardware and install clamp drive pins.
6. Complete footings and install resilient surfacing.

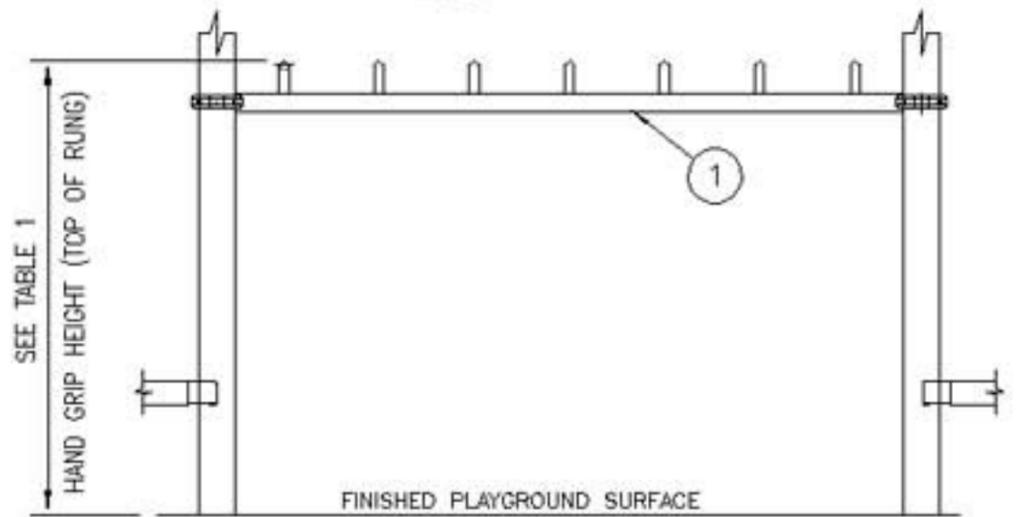
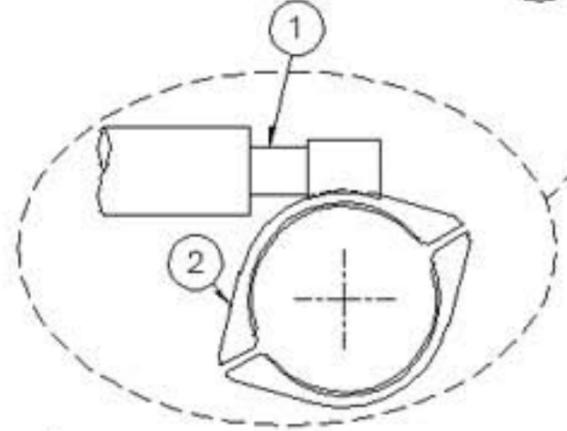
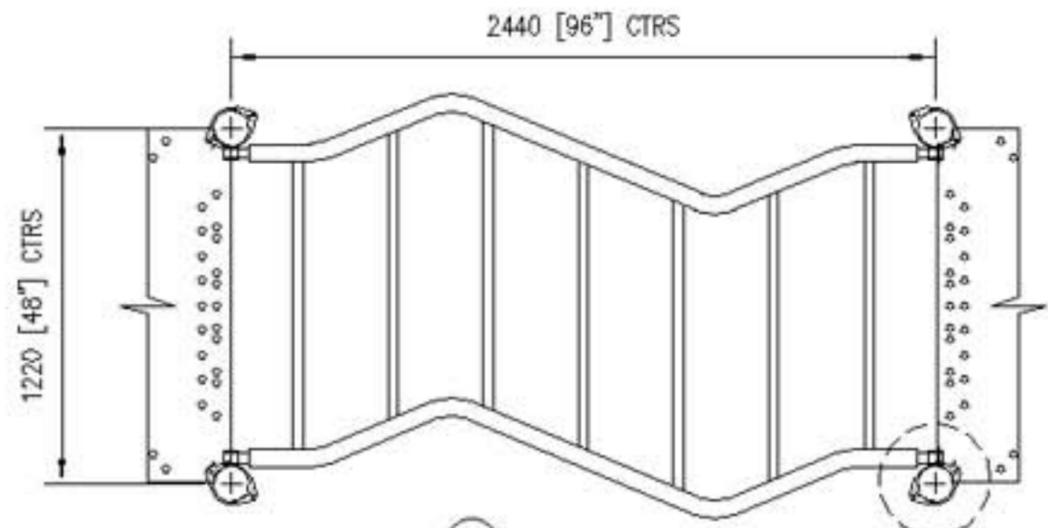
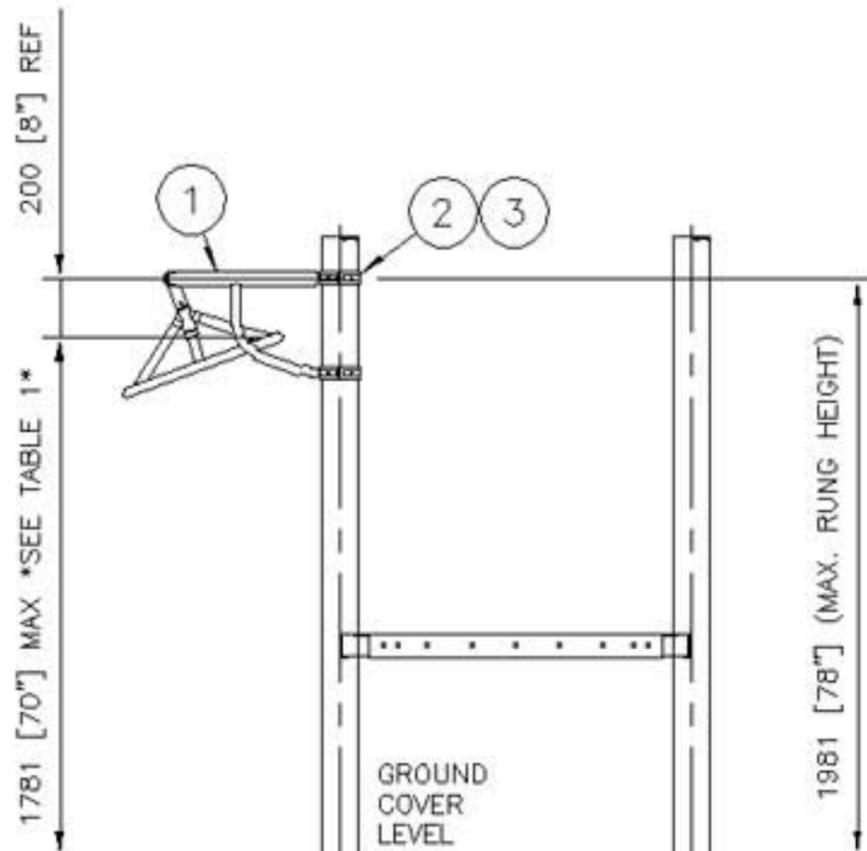
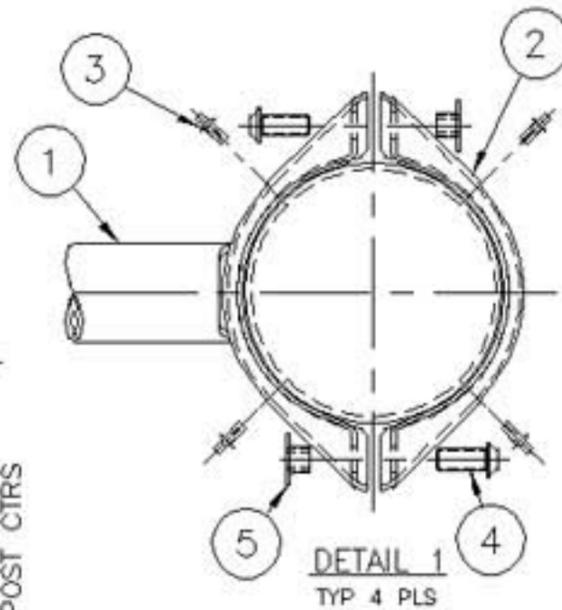
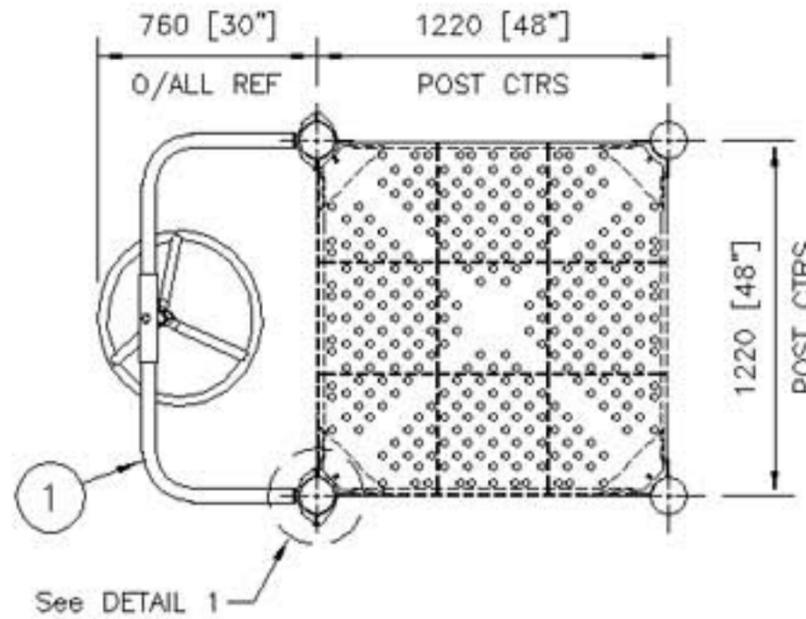


TABLE 1

Age Group	Hand Grip Height
2-5 Years	1524mm [60"]
5-12 Years	1981mm [78"]

NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

AUTHORIZED BY:
Eric L. Cloudus 21 OCT 09



SINGLE FUNWHEEL 200202270

Item	Code	Description	Qty.
1	-	ASSY SGL. FUNWHEEL F/KB	1
2	-	CLAMP HALF W/O WELDED ATTACHMENT	4

HARDWARE

Item	Code	Description	Qty.
3	200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	16
4	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	8
5	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	8

Application

- Age Group: (5 - 12 Year Olds)
- Maximum Distance between Rung Height (Center of Grasping Location) to Top of Surfacing is 1981mm [70"].
- Recommended Deck Heights are 0mm [0"] to 610mm [24"].
- Maximum Deck Height is 762mm [30"]

Installation Instructions

- NOTE: Install adjacent playground components prior to installation of funwheel to insure no clamp conflicts.
- Lift Beam Assembly (Item 1) and loosely attach to posts (refer to DETAIL 1).
- Position to proper height and check for level and plumb.
- Tighten all clamps and hardware.
- At each small hole location, drill a 5mm hole and install hammer drive pins (NOTE: Four (4) drive pins per post).

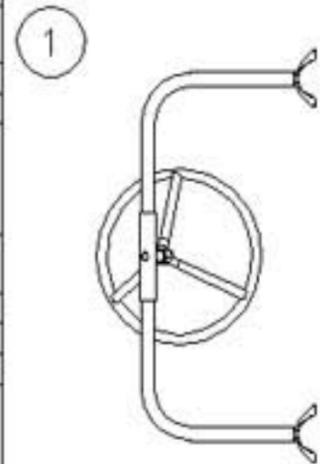
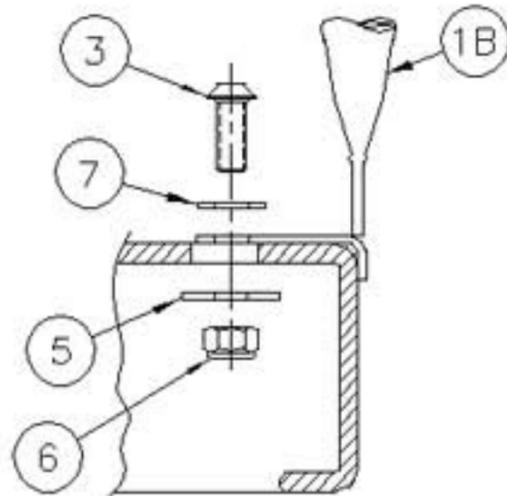


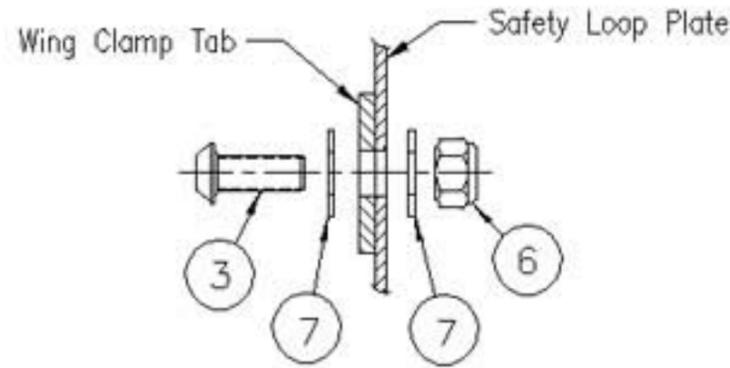
TABLE 1

AGE GROUP	REACH HEIGHT RANGES
5-9 YEARS	1140mm[45"]-1524mm[60"]
9-12 YEARS	1524mm[60"]-1778mm[70"]

AUTHORIZED BY:
Joe Fritchett 11JUN08

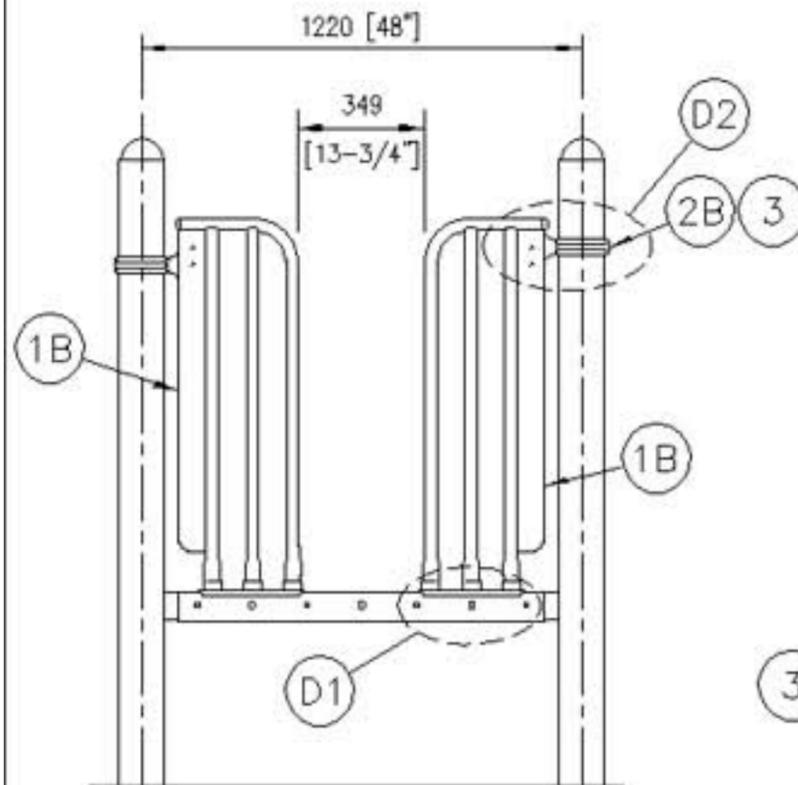
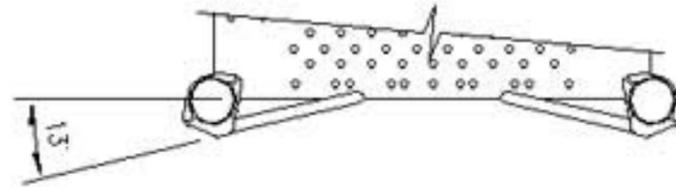
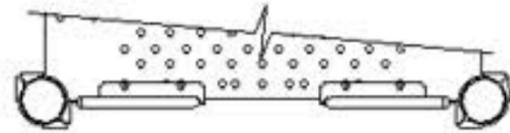


DETAIL 1
Typ 4 Places

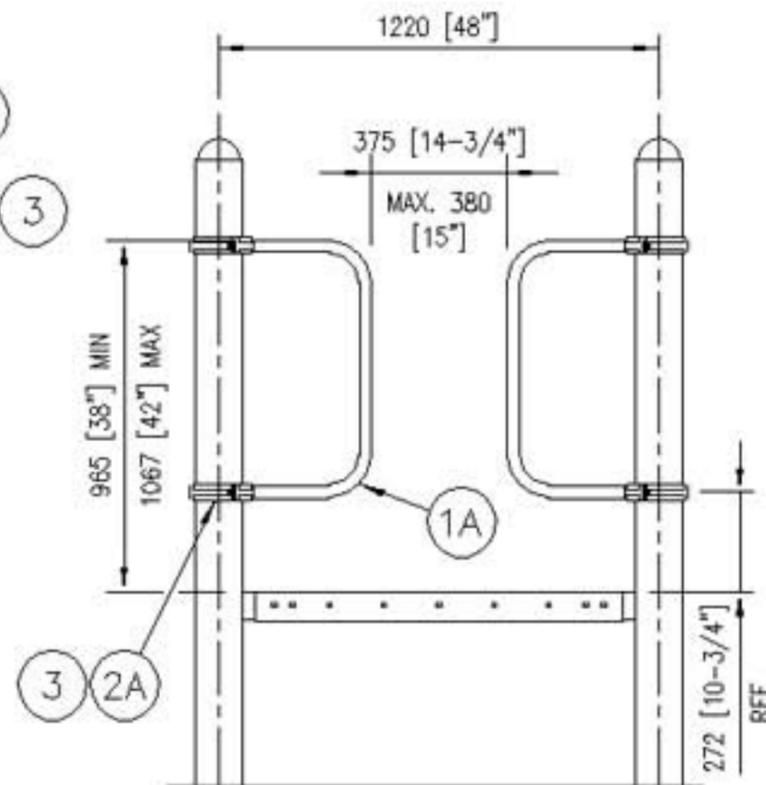


DETAIL 2
Typ 2 Places

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

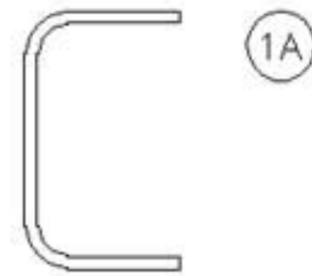
1. Determine which side of post hand loops are to be mounted on.
2. Loosely assembly Hooded Rail Clamps to posts (refer to the front of the manual for clamp installation detail).
3. Slide the hand loops into the clamps.

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

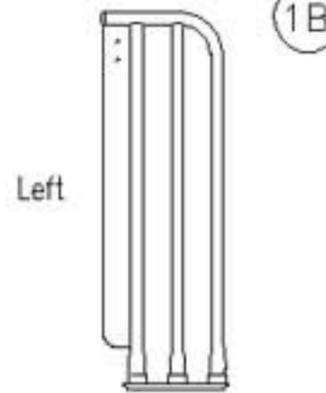
5. Tighten all hardware and install clamp drive pins.

SAFETY LOOPS

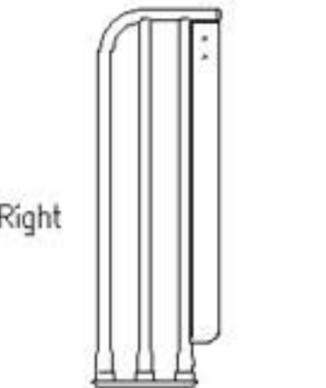
1. Attach the enclosures to the deck as shown in DETAIL 1.
2. Loosely attach wing clamps to the posts (refer to front of manual for clamp installation instruction).
3. Attach the loop plates to the wing clamp tabs as shown in DETAIL 2. Note high side/low side position of clamps. Wing clamp tabs are installed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



1A

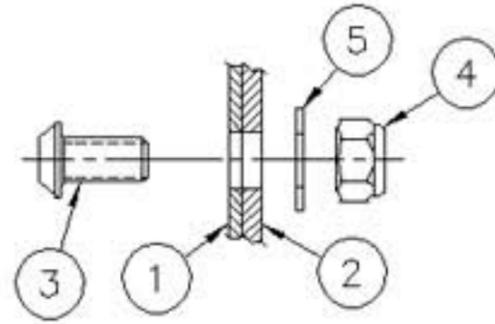


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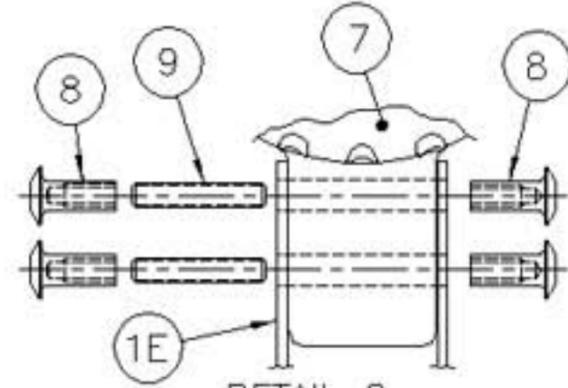


Right

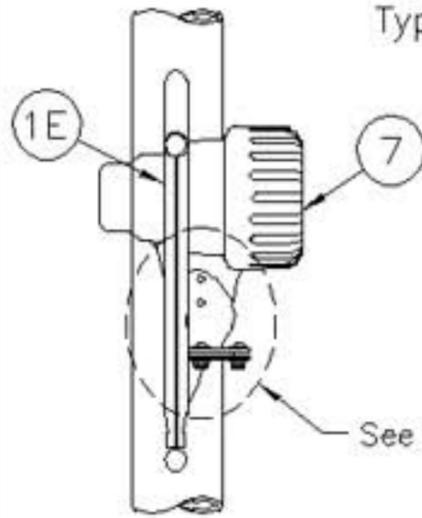
AUTHORIZED BY:
Joe Pritchett 11JUN08



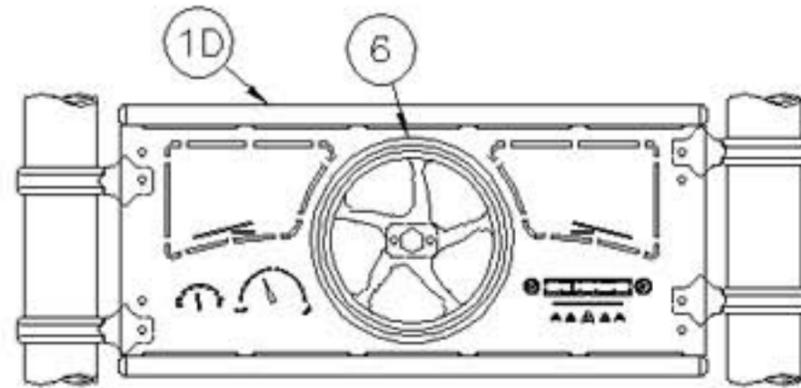
DETAIL 1
Typ 4 Places



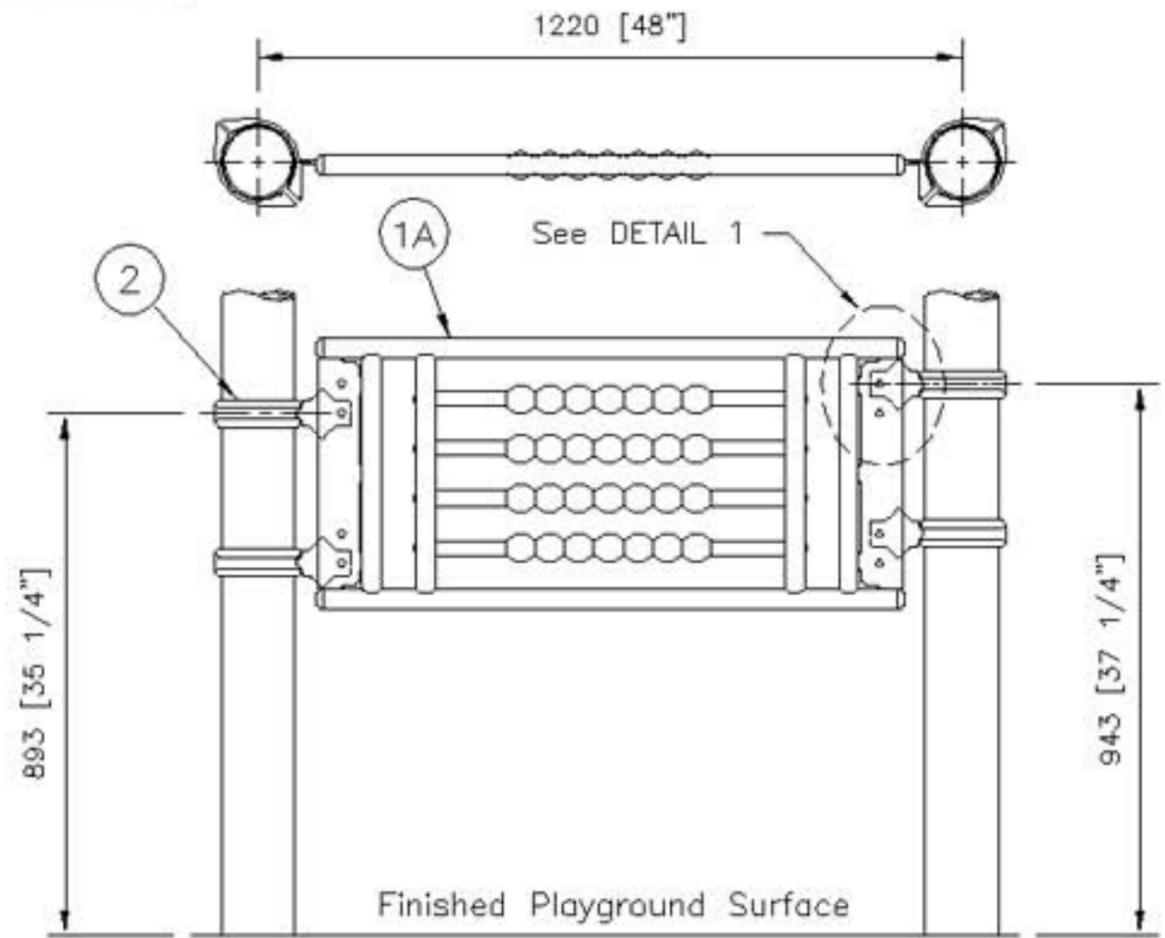
DETAIL 2
(telescope panel only)



TELESCOPE PANEL



VEHICLE PANEL



ABACUS PANEL

PANEL REACH ABACUS KB	200200505
PANEL REACH GEAR KB	200200506
PANEL REACH MELODY MAKER KB	200200504
PANEL REACH VEHICLE KB	200200503

Item	Code	Description	Qty.
1A	-	PANEL KB REACH ABACUS	1
1B	-	PANEL KB REACH GEAR	
1C	-	PANEL KB REACH MELODY MAKER	
1D	-	PANEL KB REACH VEHICLE*	
2	-	KB WING CLAMP ASSEMBLY	4
6	-	*ASSEMBLY RAIL MOUNT F/ALUMINUM STEERING WHEEL*	*1*

HDWR BAG F/KB REACH PANELS 200150895

Item	Code	Description	Qty.
3	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM	4
4	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	4
5	200002079	WASHER FLAT M11 23 X 12 X 1.6	4

* Steering Wheel used only on Vehicle Reach Panel *

PANEL REACH TELESCOPE KB 200200507

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

HDWR BAG F/KB TELESCOPE REACH PANEL PTMT 200150880

Item	Code	Description	Qty.
3	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM	4
4	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	4
5	200002079	WASHER FLAT M11 23 X 12 X 1.6	4
8	200001954	BARREL NUT M10 X 1.50 (12.70 DIA X 32MM)	4
9	200099546	ROD THREADED M10 X 58MM ZN	2

Installation Instructions

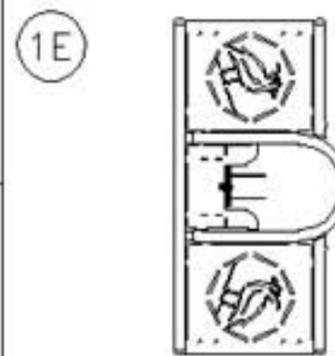
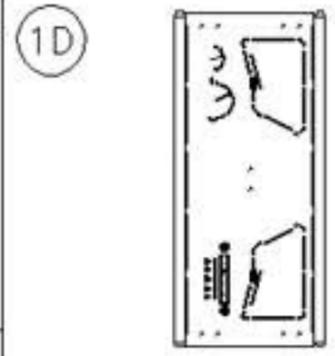
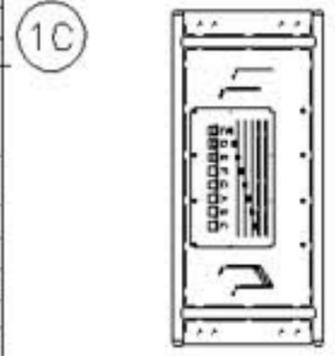
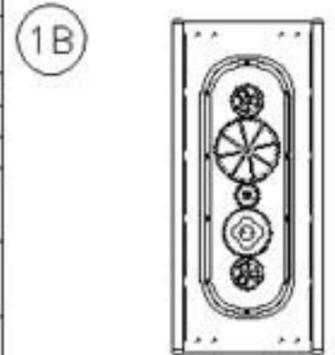
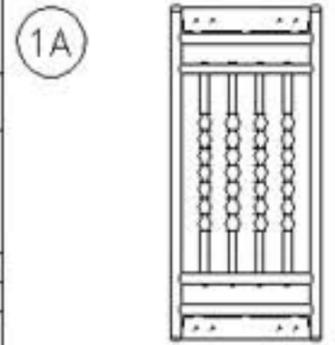
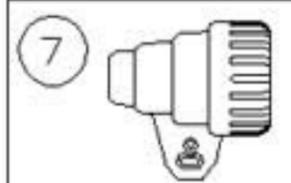
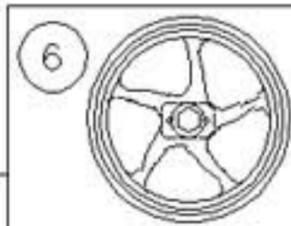
- Loosely attach wing clamps to posts. Refer to front of manual for clamp installation detail.
- Loosely attach clamps to the panel as shown in DETAIL 1. Note high side/low side clamp positioning.
- Elevate the clamps to the desired height, ensure panel is level, and tighten hardware. Install hammer drive pins.

For the Telescope Panel: Attach plastic telescope to the panel using hardware as shown in DETAIL 2.

For the Vehicle Panel: Attach steering wheel assembly (refer to Instruction I900056).

Application

- When installing below deck, ensure no entrapment areas exist.
- For Front Reach Wheelchair access, leave a minimum of 508mm [20"] of clearance between the panel and the top of ground cover.



Chris M. Anderson

- RECYCLED TREEHOUSE CURLY CLIMB 36" F/KB 200202399
- RECYCLED TREEHOUSE CURLY CLIMB 48" F/KB 200202400
- RECYCLED TREEHOUSE CURLY CLIMB 56" F/KB 200202449
- RECYCLED TREEHOUSE CURLY CLIMB 64" F/KB 200202450
- RECYCLED TREEHOUSE CURLY CLIMB 72" F/KB 200202451

Item	Code	Description	Qty.
1	-	PANEL TREE VERT CLIMB "ENTER HERE"	1
2	-	KB WING CLAMP ASSEMBLY	2
3	-	TUBE ANCHOR F/VERTICAL CLIMBERS *	1
4	-	CLIMBER CURLY	1

* FOR SURFACE MOUNT ONLY

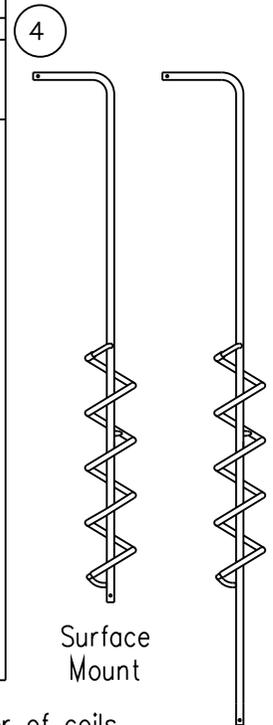
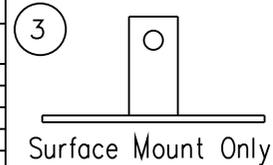
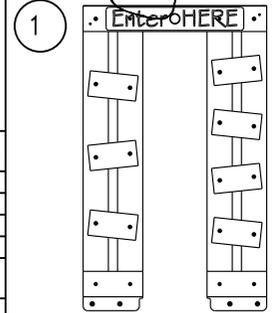
HWDR BAG F/TREEHOUSE CURLY/SNAKE CLIMB 200190205

Item	Code	Description	Qty.*	Qty.**
5	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	4	4
6	200002138	BOLT M8 X 1.25 MALE 42.5 MM	3	3
7	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30 MM	4	3
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	4	4
9	200008483	WASHER BOWED M11 23.5 X 11.7 X 1.57 MM	4	2
10	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	12	12
11	200002133	BOLT M8 X 1.25 MALE 27.5 MM *	1	0

Installation Instructions

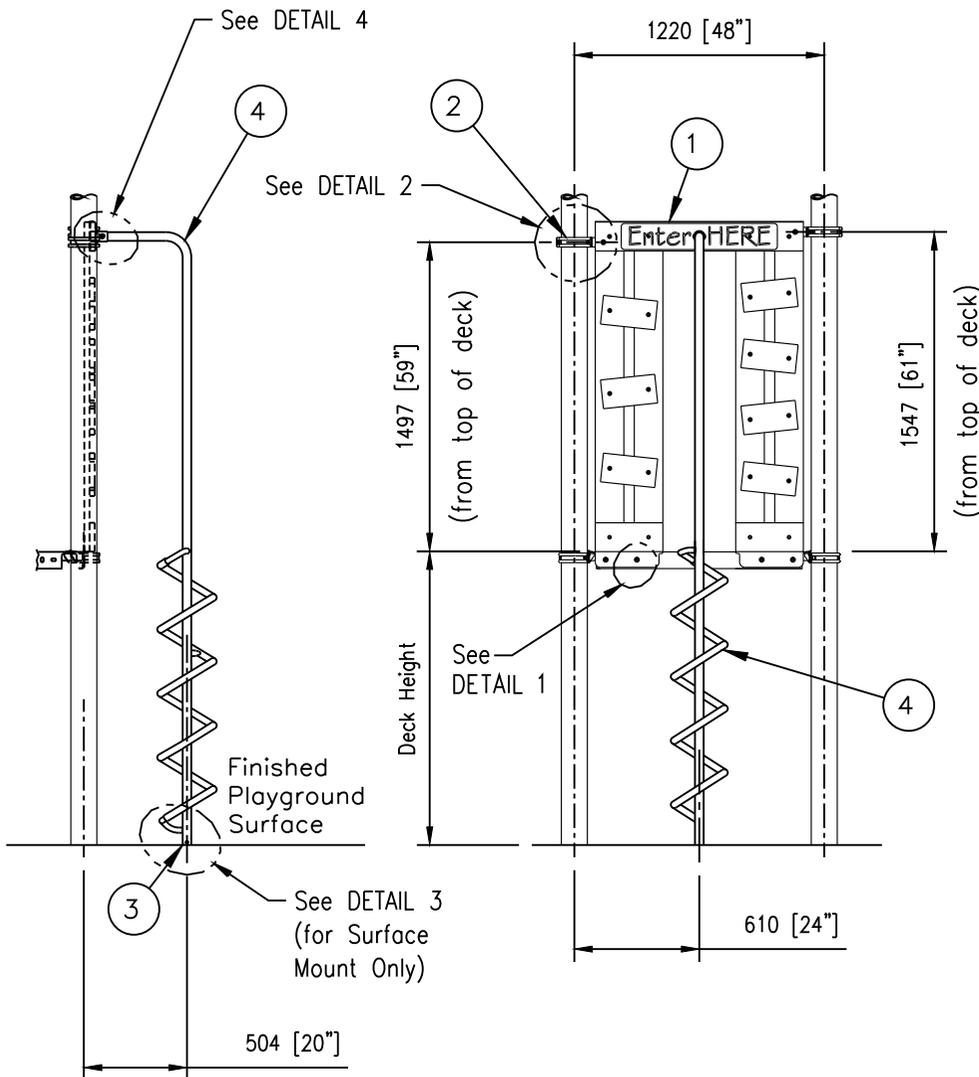
* FOR SURFACE MOUNT
** FOR INGROUND MOUNT

1. Prepare footing.
2. Loosely attach the clamps to the posts (refer to front of manual for clamp installation details).
3. Lift enclosure into place and loosely attach to deck edge (refer to DETAIL 1).
4. Loosely attach enclosure to clamps (refer to DETAIL 2).
5. For Surface Mount version, loosely attach tube anchor to climber (refer to DETAIL 3).
6. Lift climber into place and attach to enclosure (refer to DETAIL 4).
7. Check for level/plumb, tighten all hardware and install clamp hammer drive pins.

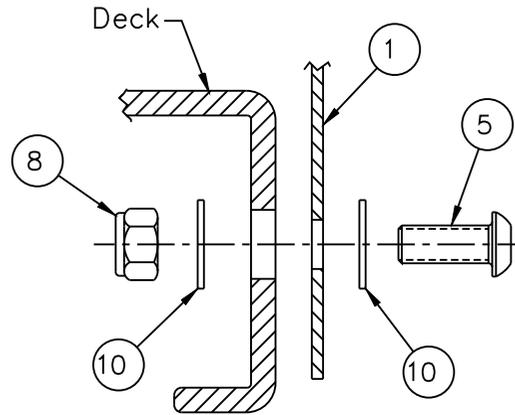


Number of coils is determined by deck height

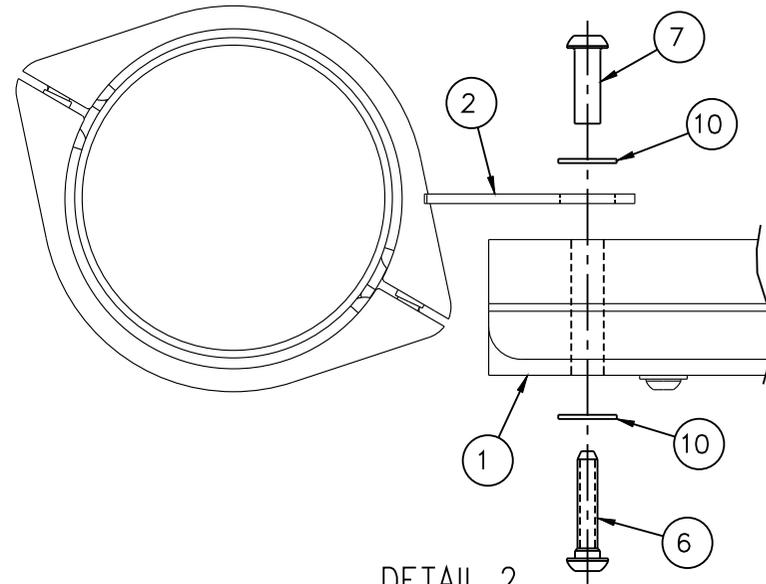
Inground Mount



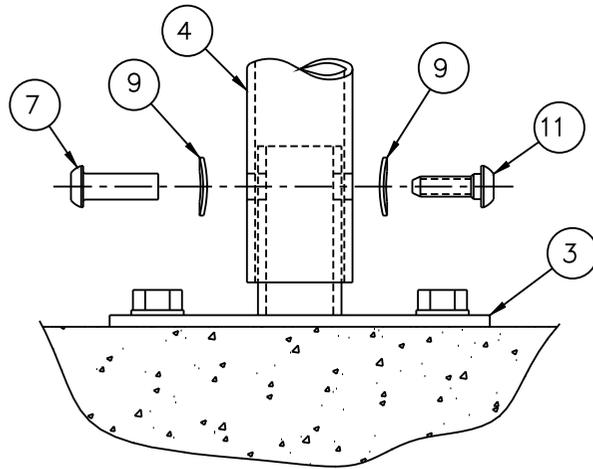
NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS



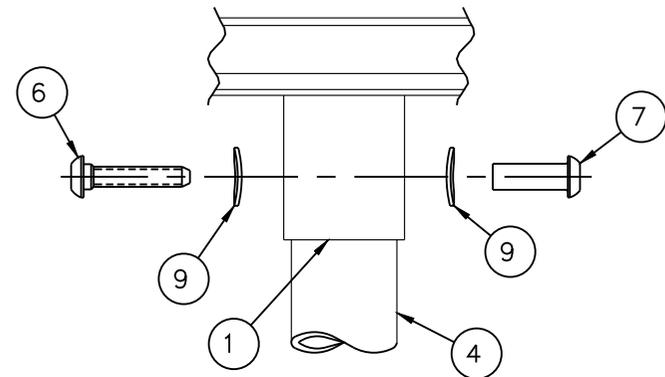
DETAIL 1
Typ 4 Places



DETAIL 2
Typ 2 Places



DETAIL 3
Surface Mount Only



DETAIL 4

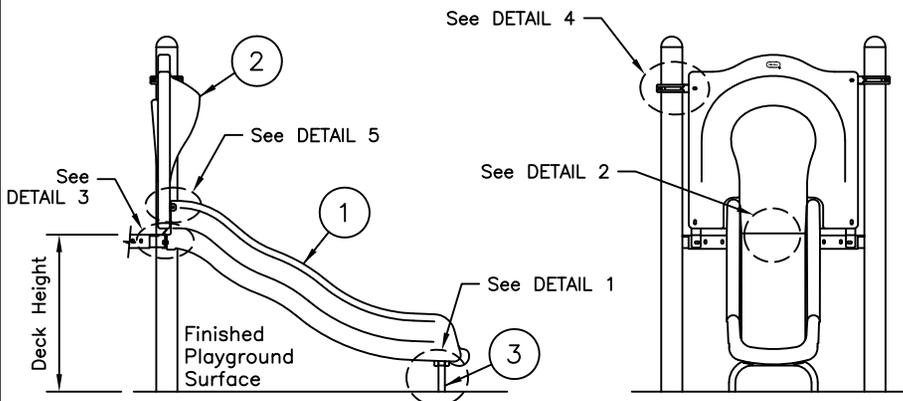
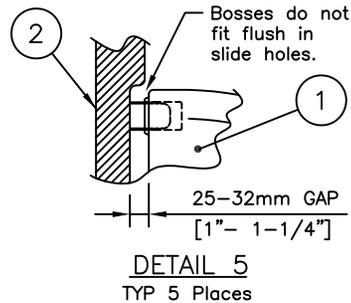
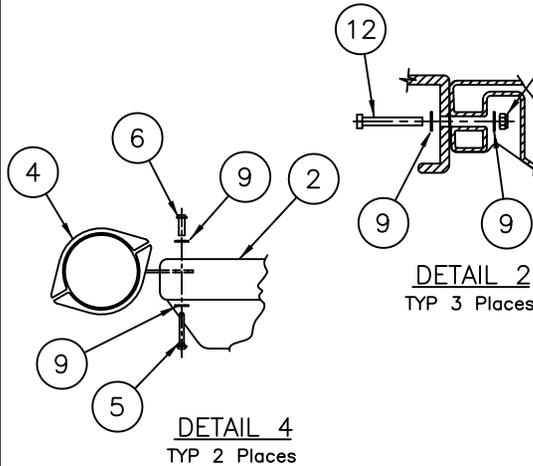
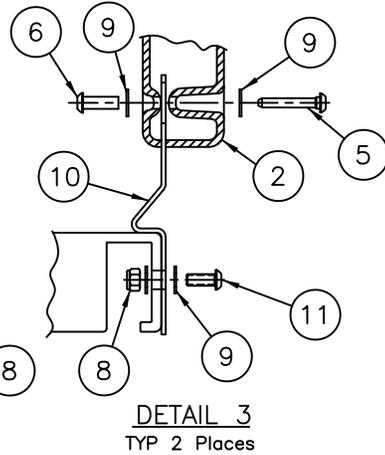
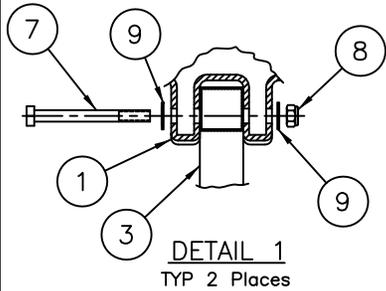


812/915/1016/1220 SINGLE WIDE WAVE SLIDES

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

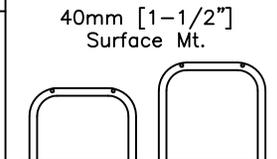
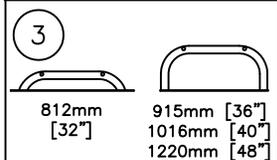
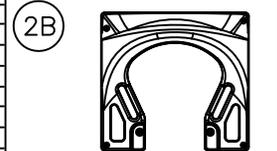
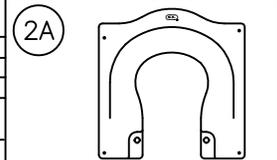
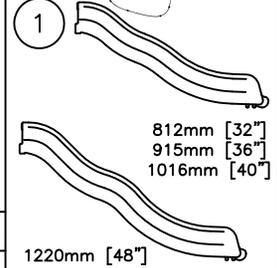
Item	Code	Description	Qty.
5	200002142	BOLT M8 X 1.25 MALE 57.5 mm	4
6	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30mm	4
7	200001875	CAP SCREW HEX HEAD M10 1.50 X 110mm	2
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	7
9	200002079	WASHER FLAT M11 23 X 12 X 1.6 mm	22
11	200002018	SCREW MACH BUTTONHEAD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

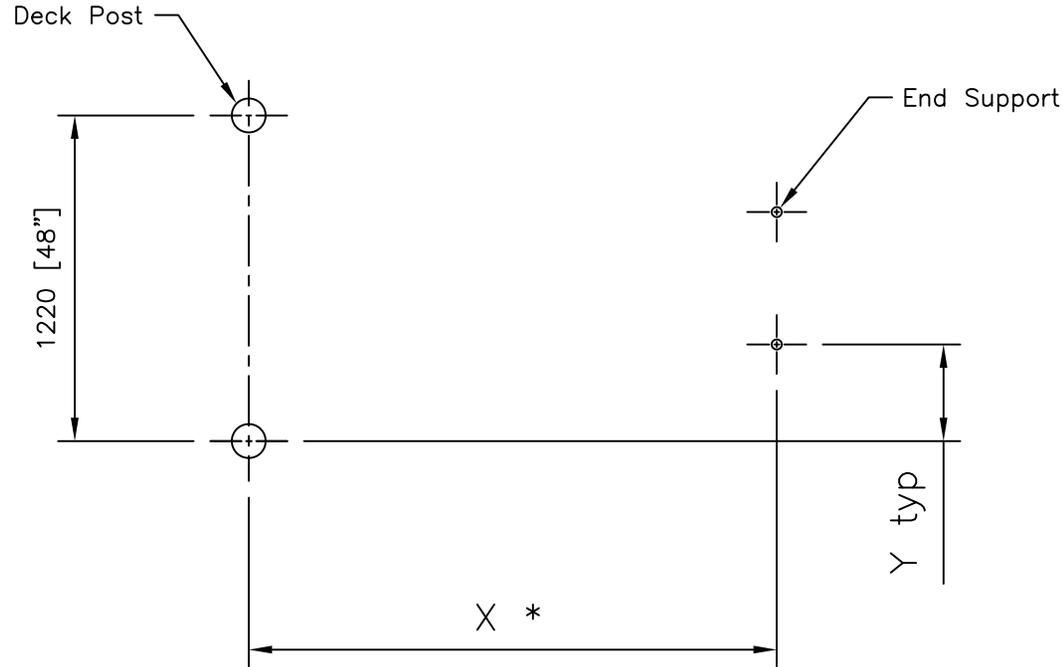
1. Prepare footings.
2. Attach the end support to the underside of the Slide as shown in DETAIL 1.
3. Place the support in the footing and attach the Slide to the deck edge as shown in DETAIL 2. If Surface Mounting, anchor the supports to the concrete.
4. Insert the bosses located at the front of the 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

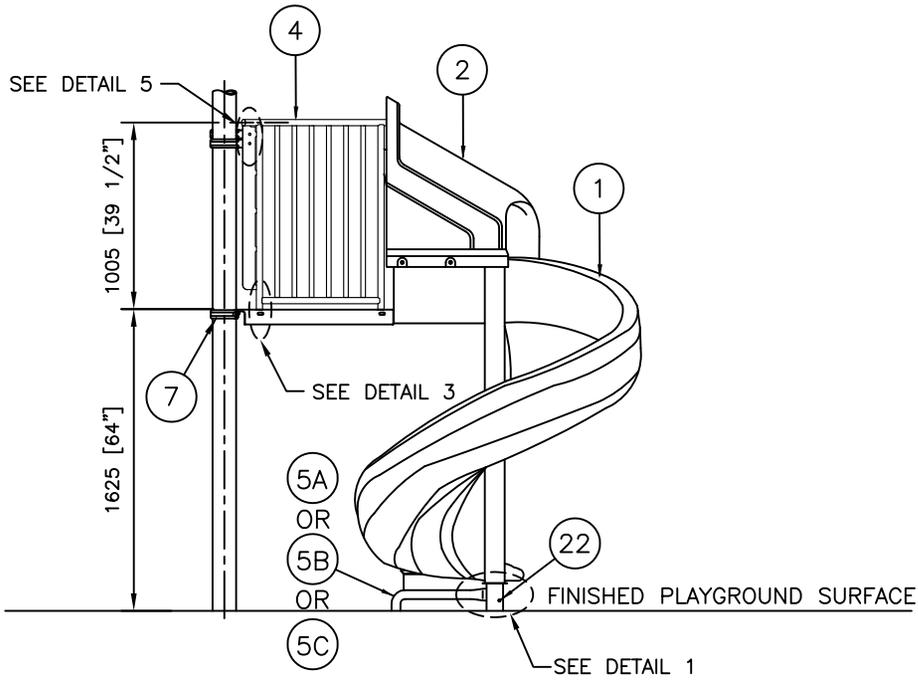
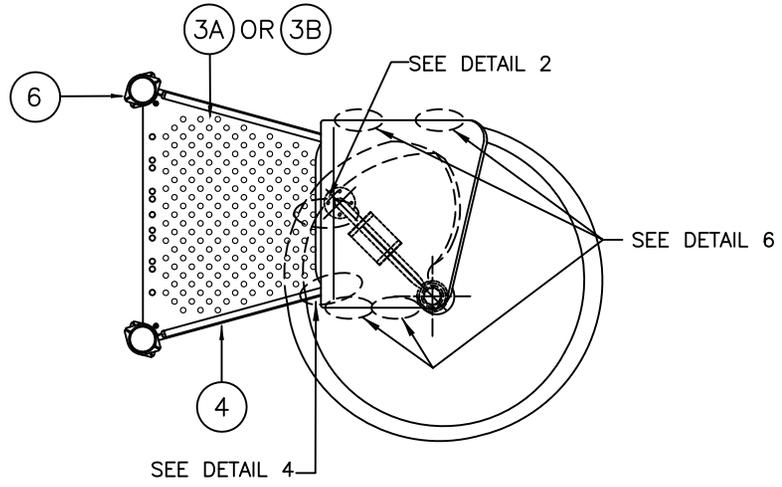


DECK HEIGHT	X		Y	
	Surface Mount	Inground	Surface Mount	Inground
812 [32"]	1650 [65"]	1650 [65"]	325 [13"]	363 [14-1/2"]
915 [36"]	1650 [65"]	1650 [65"]	363 [14-1/2"]	363 [14-1/2"]
1016 [40"]	1610 [63-1/2"]	1650 [65"]	410 [16"]	363 [14-1/2"]
1220 [48"]	1980 [78"]	1980 [78"]	363 [14-1/2"]	363 [14-1/2"]

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

AUTHORIZED BY: 18JUN19

Harold Gabriel



200122438-SLIDE SPIRAL KB 1625/64 (2007)
 200200264-SLIDE SPIRAL KB 1625/64 (SMALL HOLE)2007
 200203331-KB SPIRAL SLIDE 64" W/2014 HOOD
 200203332-KB SPIRAL SLIDE 64" W/2014 HOOD(SM HL)

Item	Code	Description	Qty.
1	908552*	SLIDE SPIRAL 64" DRLD 2004 POST	1
2	908747*	HOOD F/SPIRAL SLIDE (MM)	1
3A	910447*	DECK TRANS F/SPIRAL SLIDE (2007)	1
3B	910446*	DECK TRANS F/SPIRAL SLD(2007)SM HOLE	1
4	910166*	ENCL F/KB SPIRAL SLD W/HOOD(2007)	2
5A	910162*	RUNOUT SUPP. SPIRAL SM40 (04)	1
5B	910161*	RUNOUT SUPP. SPIRAL SM305 (04)	1
5C	910160*	RUNOUT SUPP. SPIRAL ING (04)	1
6	909257*	CLAMP WING F/KB (2001)	2
7	909383*	DECK CLAMP F/5" TUBE	2
8	910918*	CAP HARDWARE BASE	6
9	910917*	CAP HARDWARE COVER	6
10	117007	WASHER 7/16 FLAT 18-8 SS	2
11	HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	6
12	HW1CLPMSET-1	HRDW PKG F/1SETS O/CLAMPS S1/1	6
13	HW147434-1	HRDW PKG SPRL SLD W/PST M1/1	2

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

Item	Code	Description	Qty.
14	200002018	SCREW MACH BUTTON HEAD M10 X 1.50 X 25MM	4
15	200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	4
16	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	4

HRDW PKG F/1SETS O/CLAMPS S1/1 - HW1CLMPSET-1

Item	Code	Description	Qty.
17	200002018	SCREW MACH BUTTON HEAD M10 X 1.50 X 25MM	2
18	200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	2
19	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	2

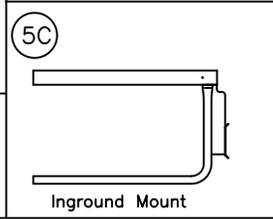
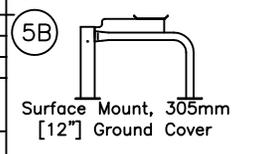
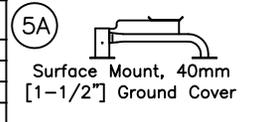
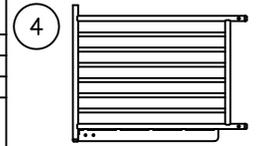
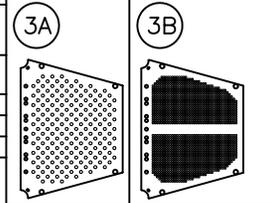
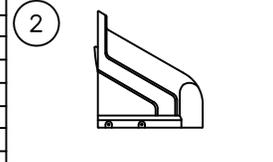
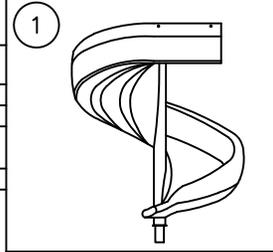
HRDW PKG SPRL SLD W/PST M1/1 - HW147434-1

Item	Code	Description	Qty.
20	200002150	SCREW MACH BUTTONHEAD M10 X 1.50 X 55MM	10
21	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	7
22	300002750	SCREW T-27 TORX ROUND WASHER HD	2
23	200001866	CAP SCREW HEX HD M10 1.50 X 100MM W/PATCH	5
24	200001945	NUT LOCK HEX NYLON INSERT M10 X 1.5	16
25	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	34
26	200008483	WASHER BOWED M11 23.5 X 11.7 X 1.57 MM	4
27	200066126	DRIVER BIT T-27 TAMPER-RESISTANT F/PB	1

Note: An (*) by part numbers (CODE) indicate: Color Code Required

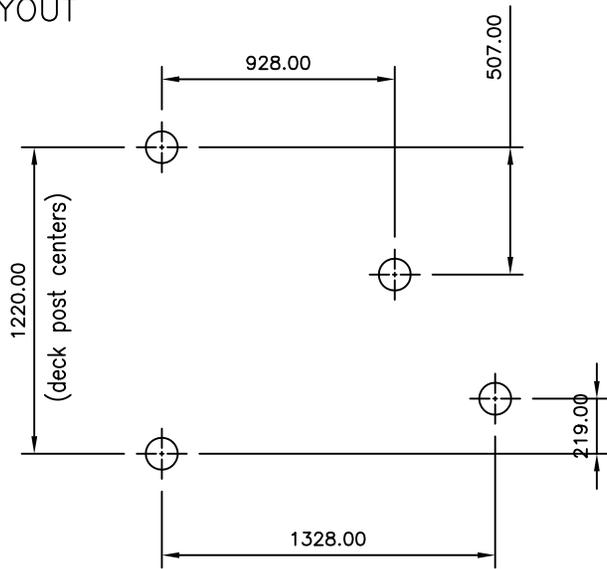
Application
 - Age group 2 - 12 year olds.
 - Exit region should be between 180 and 380 [7" and 15"].
 - Runout slope must be 0 to -4 degrees.

Note: Footing Layout and Installation Instructions are on Sheet 2.



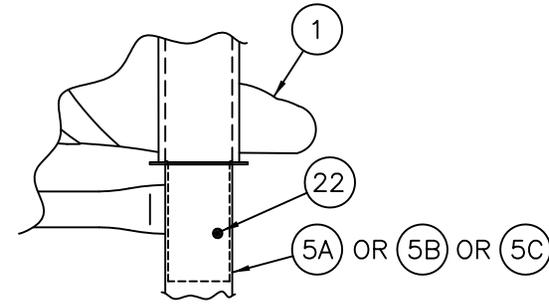
NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

FOOTING LAYOUT

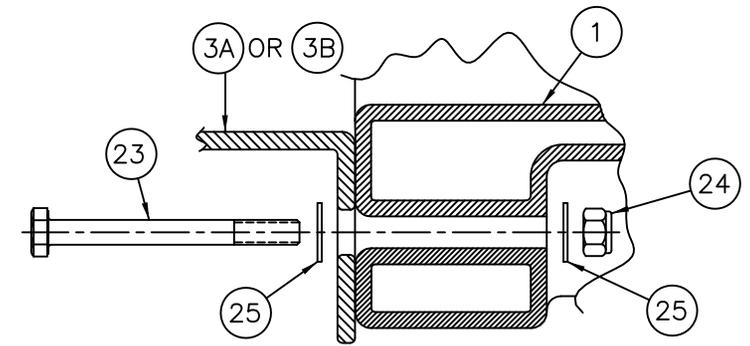


Installation Instructions

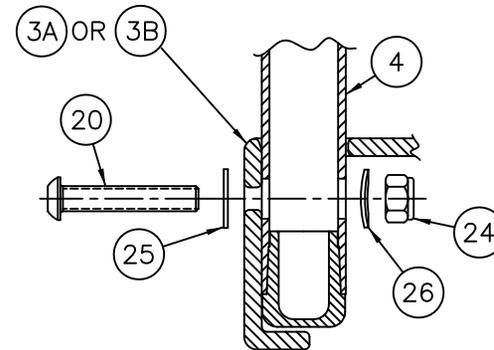
1. Prepare footings per footing layout above.
2. Lay the slide down and attach the runout support (Item 5A, 5B or 5C). Make sure the runout support is properly oriented on the slide post and attach with screws. See DETAIL 1.
3. Attach the transition deck (Item 3A or 3B) to the proper deck edge/posts (refer to front of Installation Instruction Manual for deck/clamp installation details). Support the deck with a board as needed to keep in place. See DETAIL 2.
4. Loosely attach the wing clamps (Item 6) to posts (refer to front of manual for clamp installation detail).
5. Slide the enclosures (Item 4) into the holes in the deck and attach to the transition deck. See DETAIL 3.
6. Attach the enclosures to the wing clamps. See DETAIL 5, Sheet 3. Wing clamp tab is installed on deck side of enclosure plate. Verify level and plumb.
7. Place the slide (Item 1) into position and attach to the transition deck. Reference DETAIL 2.
8. Loosely attach the hood (Item 2) to the slide. See DETAIL 6, Sheet 3.
9. Check deck, enclosures and slide for level and plumb. Tighten all hardware and install clamp drive pins/hardware caps.
10. Complete footings and install resilient surfacing.



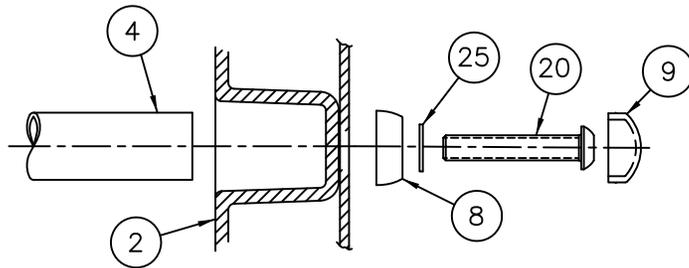
DETAIL 1



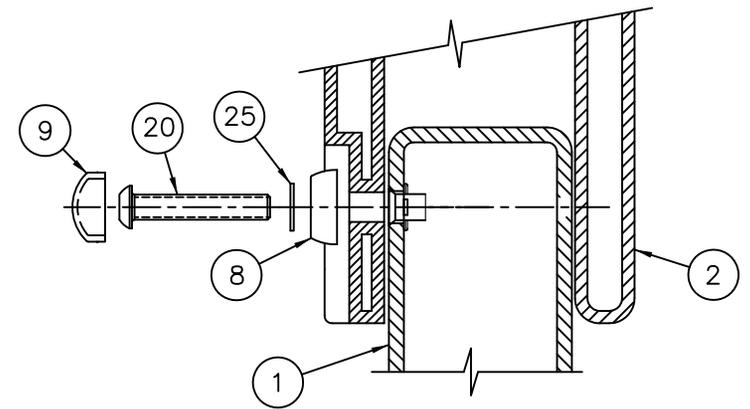
DETAIL 2
Typ 5 Places



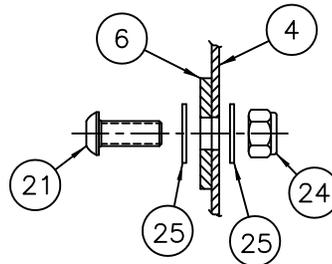
DETAIL 3
Typ 4 Places



DETAIL 4
Typ 2 Places

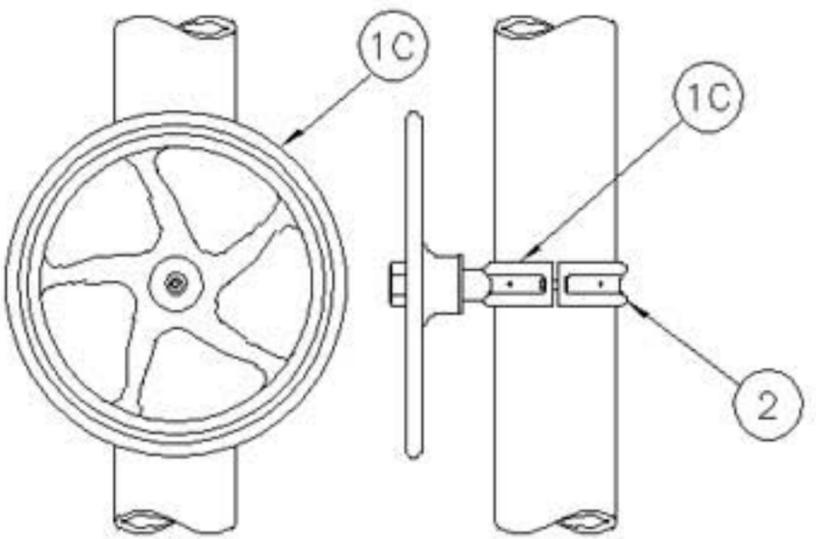


DETAIL 6
Typ 4 Places

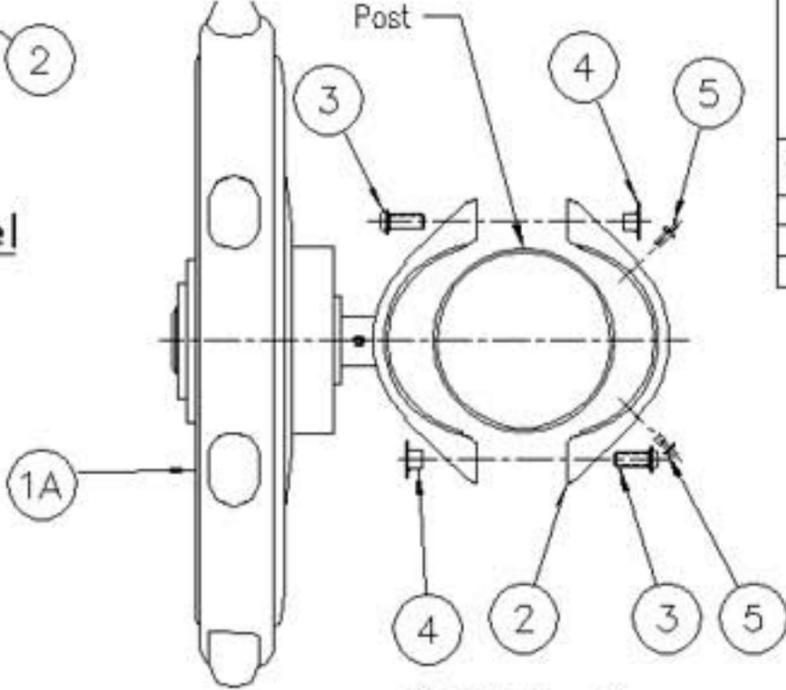


DETAIL 5
Typ 2 Places
(Wing clamp tab installed
on deck side of plate)

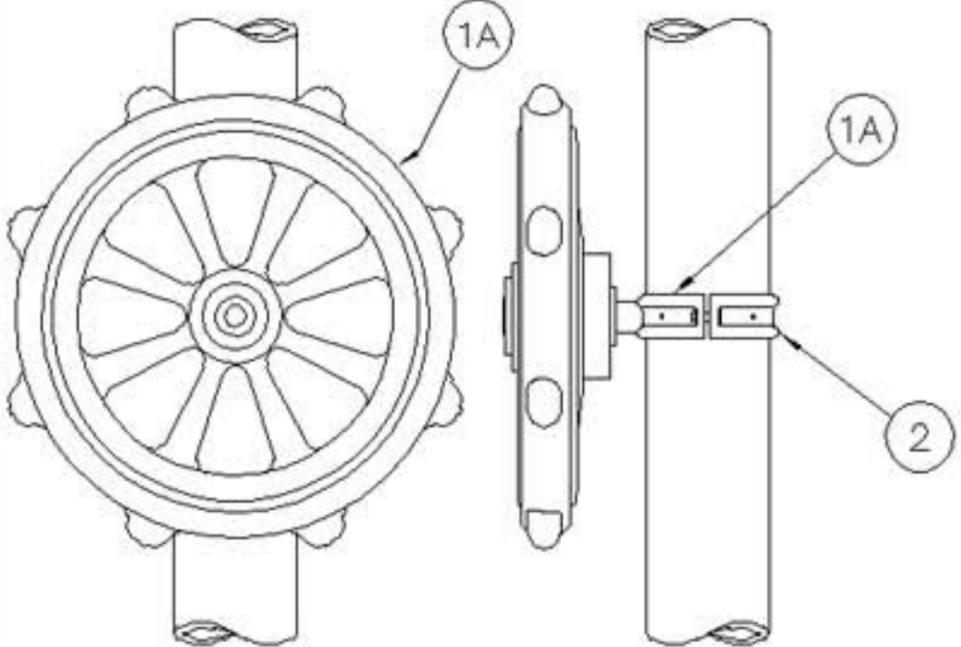
AUTHORIZED BY: 16JUN08
Shawn Slinkard



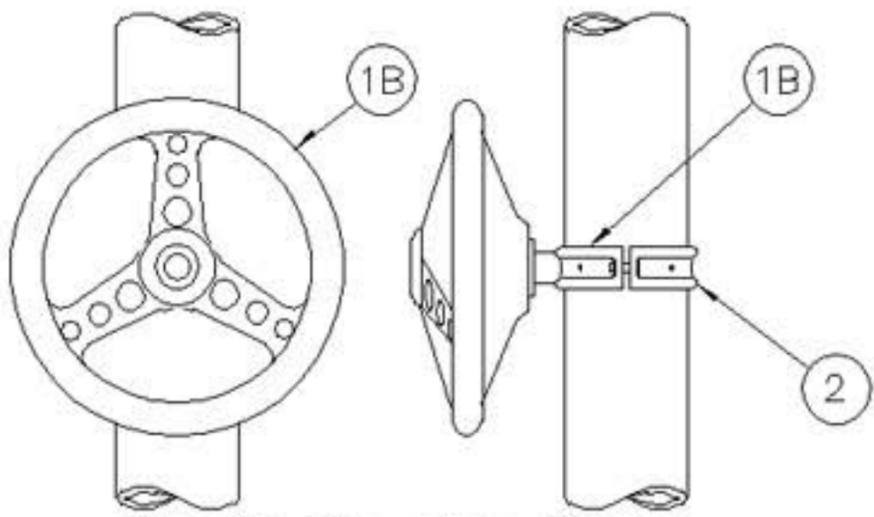
Aluminum Steering Wheel



DETAIL 1
(Ship Wheel Shown)



Ship Steering Wheel



Plastic Steering Wheel

WHEEL SHIP STEERING KB
200007091
WHEEL PLASTIC STEERING WHEEL KB
200200424
WHEEL ALUM. STEERING WHEEL KB
200200425

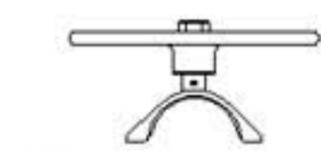
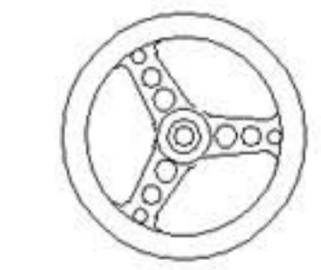
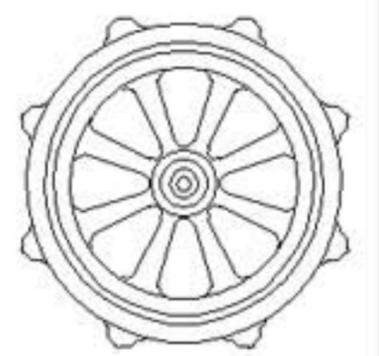
Item	Code	Description	Qty.
1A	-	ASSY. POST MT. f/SHIP STEER WHEEL	1
1B	-	ASSY. POST MT. f/PL. STEER WHEEL	
1C	-	ASSY. POST MT. f/AL. STEER WHEEL	
2	-	CLAMP HALF W/O WELDED ATTACHMENT	1

HDWR BAG F/POST MT. STEERING WHEELS
200145769

Item	Code	Description	Qty.
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
5	200000797	HAMMER DRIVE PIN 4.7 X 11.11mm	2

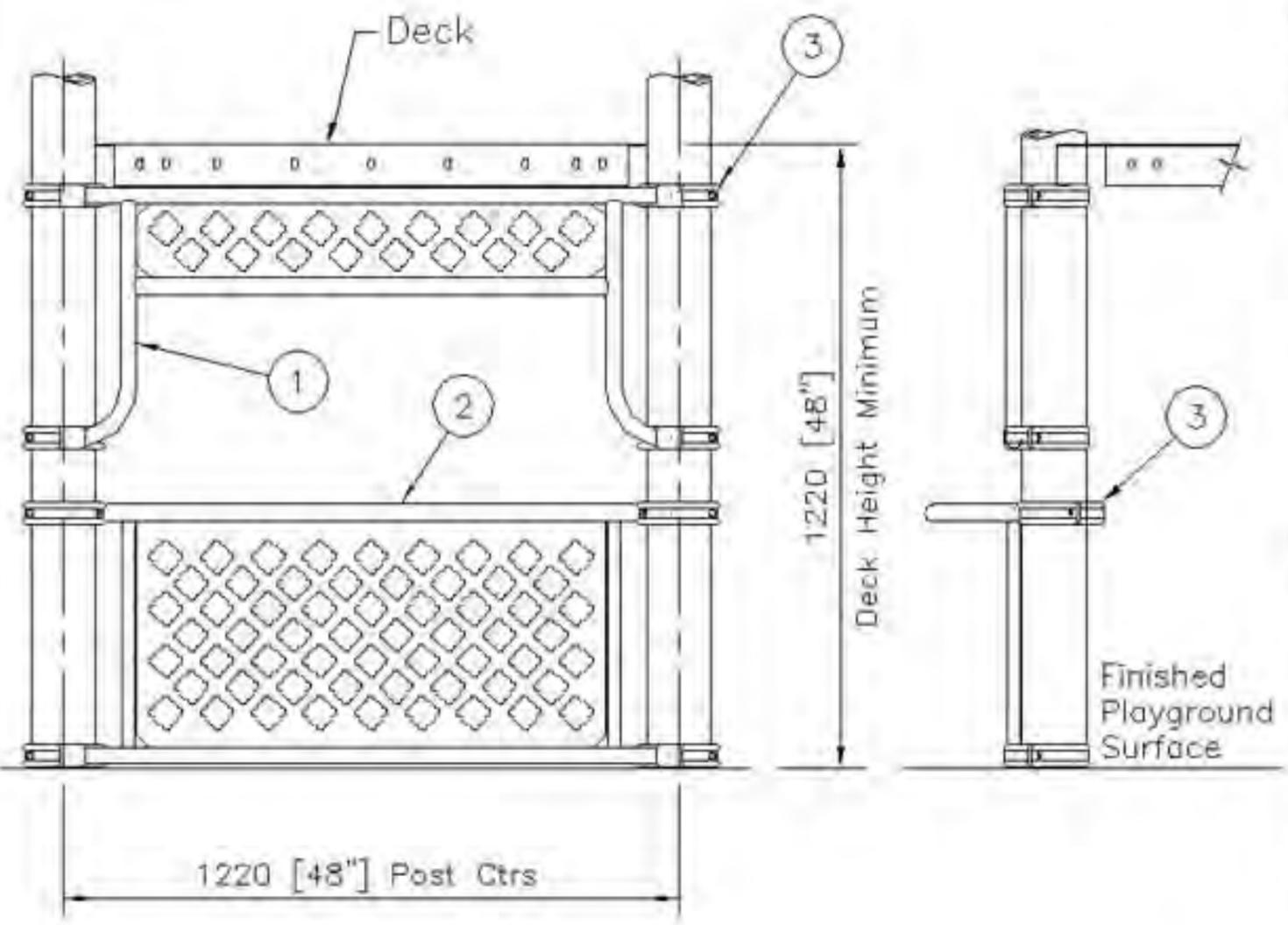
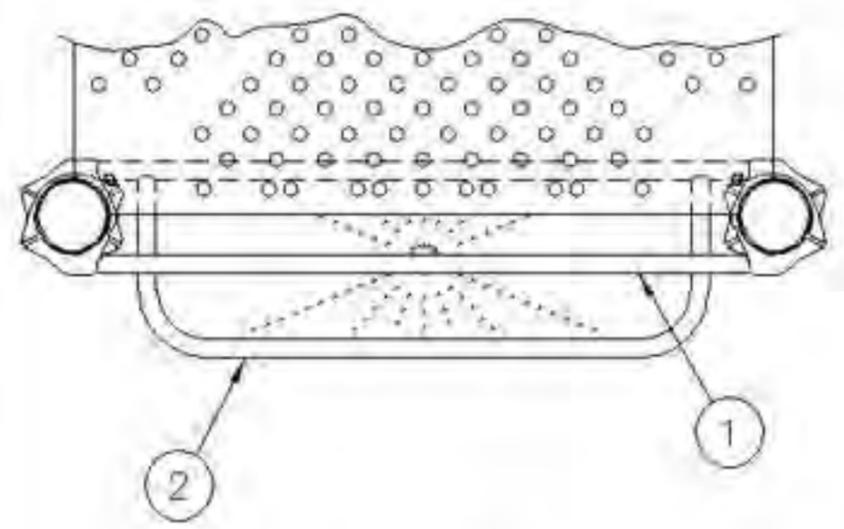
Installation Instructions

- Loosely attach clamp half (item 2) and Assy. Post Mt. f/Steer Wheel (item 1) to post. (Refer to front of manual for clamp installation detail.)
- Position at correct height and orientation, then tighten hardware.



1C

AUTHORIZED BY:
Chris H. [Signature] 29 OCT 03



PANEL STORE FRONT F/KB
(STEEL VALANCE & COUNTER PANELS)
200016530

PANEL COUNTER F/STORE FRONT KB (STEEL)
200016532

PANEL VALANCE F/STORE FRONT KB (STEEL)
200016531

PANEL VALANCE "LEMONADE" KB (STEEL)
200200254

PANEL VALANCE "GENERAL STORE" KB (STEEL)
200200253

PANEL VALANCE "TICKET BOOTH" KB (STEEL)
200200252

Item	Code	Description	Qty.
1	-	KB STEEL VALANCE PANEL	1
2	-	KB STEEL COUNTER PANEL	1
3	-	KB HOODED RAIL CLAMP	8

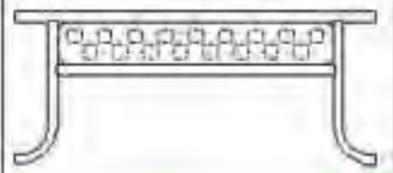
Application

- Age Groups (2-12 year olds).
- For below deck use only.
- Cannot be used as an enclosure.
- All steel components can become hot in direct sunlight, shaded areas are recommended.
- Can only be mounted below a 1220mm [48"] or higher deck.
- Ensure no entrapment areas are formed during installation.

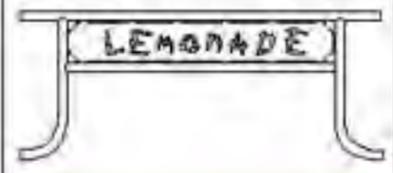
Installation Instructions

1. Install Valance directly below the deck edge using four Hooded Rail Clamps (refer to front of manual for clamp installation detail).
2. Install Counter with the bottom rail resting on the finished playground surface using four hooded rail clamps. *Note:* Upper rail attaches to the inside of the post while the bottom rail attaches to the outside.
3. Tighten all hardware.

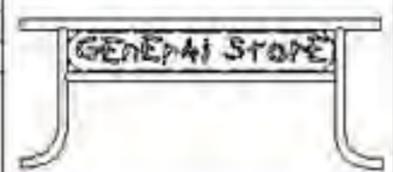
1A



1B



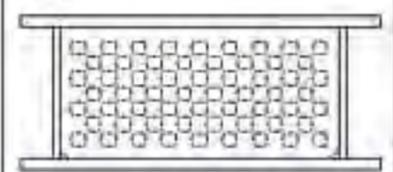
1C



1D



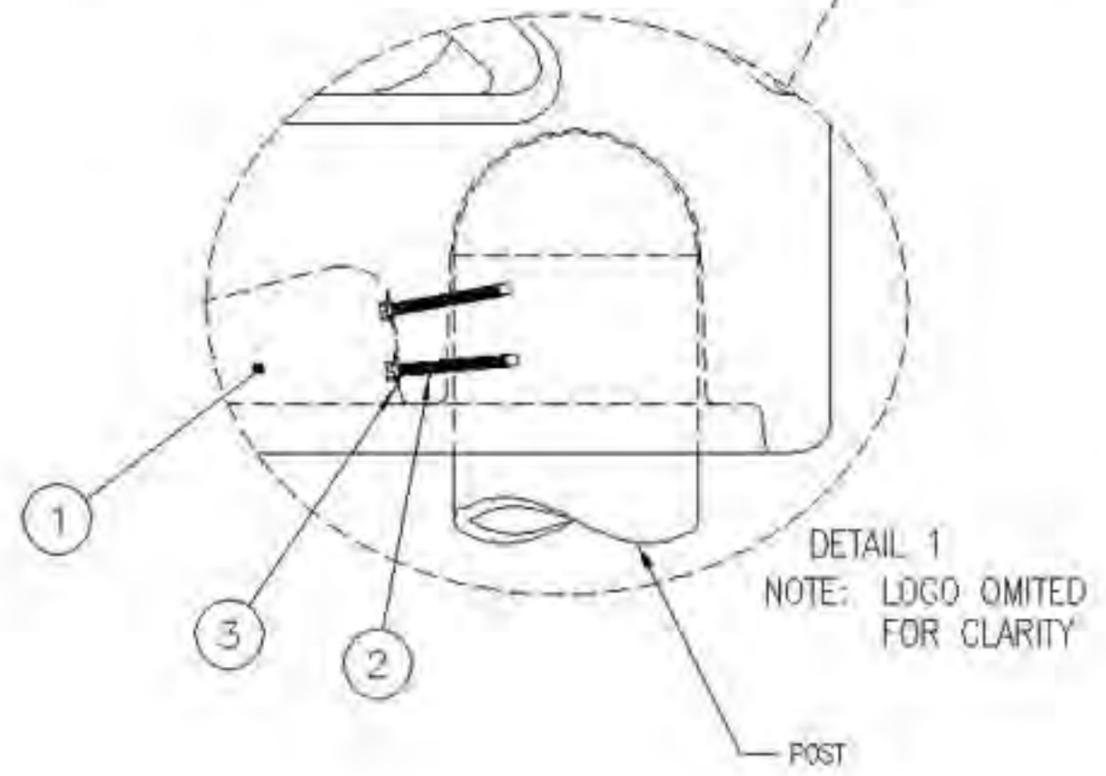
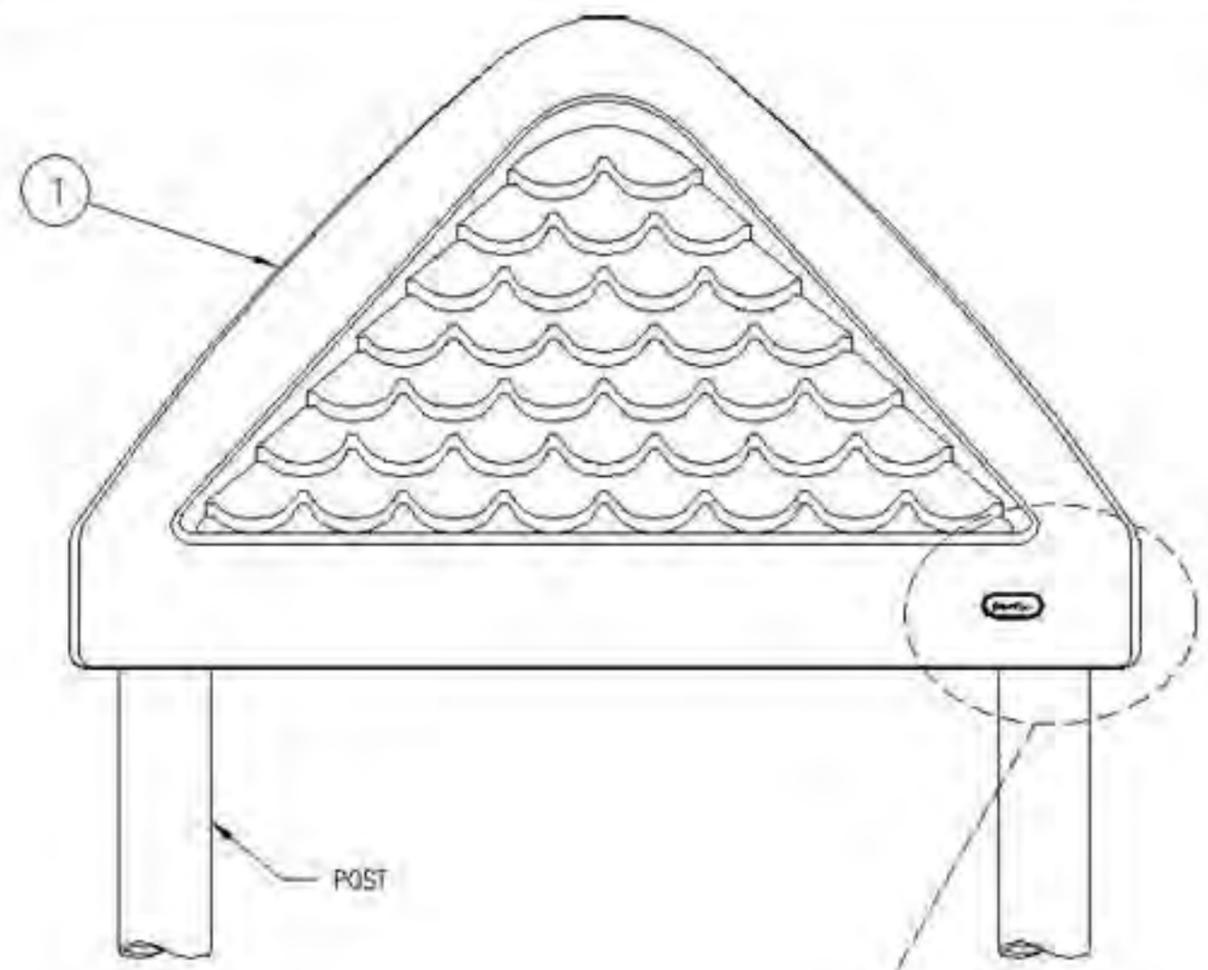
2



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

SQUARE ROOF
200007137

AUTHORIZED BY
Chris M. [Signature] 47JAND1



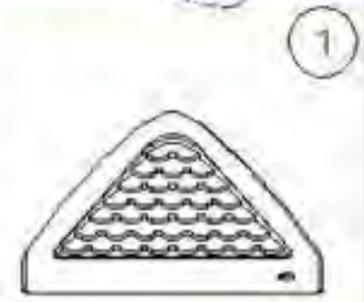
Item	Code	Description	Qty.
1	-	ROOF F/KB	1
2	200002002	SCREW DRILL HEX HEAD M6.3 X 1.81 X 65mm	8
3	200002057	WASHER FLAT M6 17.5 X 7.5 1.5mm	8

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).





Project Number: R0324200199

PlayArea: RiskSign_Included | Park Service

Project Name:

Project Location:

Sales Representative:

Northland Recreation
10085 Bridgewater Bay
Woodbury, MN 55129
2623138636

Installation Instructions

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

Date: 3/3/2020 12:00:00 AM

Risk Management Sign

IMPORTANT! The Risk Management 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>
787	Risk Management Sign - English
787FR	Risk Management Sign - French
787SP	Risk Management Sign - Spanish



Note:

- *English version shown.*
- *An (*) by part numbers indicate: Color Code Required.*

Risk Management Sign

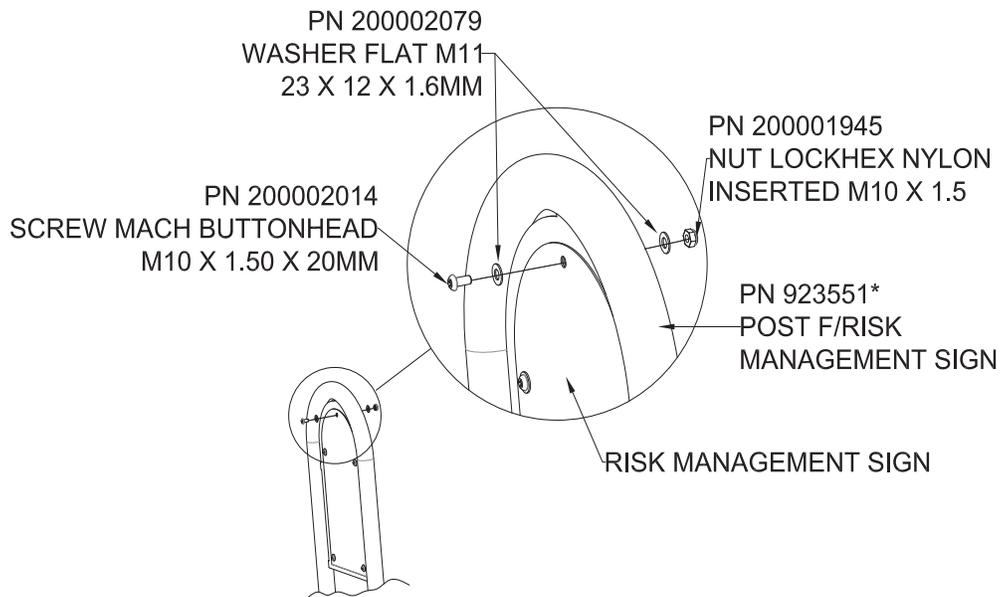
STEP 1 ATTACH AGE-APPROPRIATE STICKER

1a. Attach age-appropriate sticker to sign, in location, as shown below.



STEP 2 ATTACH SIGN TO POST FRAME

2a. Attach sign as shown below, in five (5) locations.

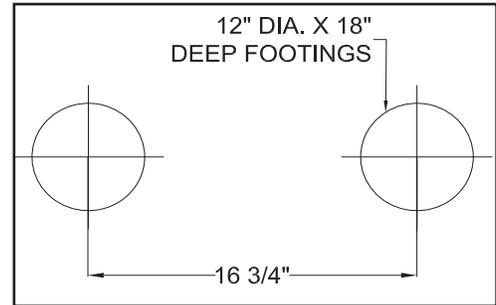


Risk Management Sign

STEP 3 DIG FOOTINGS

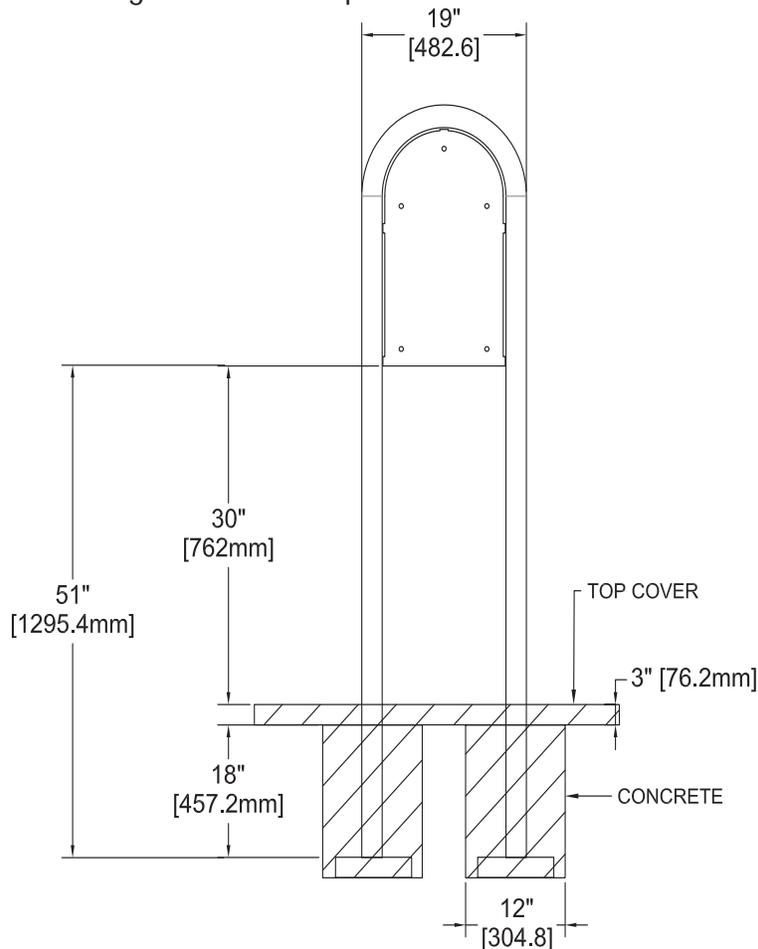
3a. Dig footings per *Footing Layouts*, *Construction Drawings*, and *Footing Details installation*.

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.



STEP 4 SET SIGN IN FOOTINGS - OUTSIDE PLAY AREA

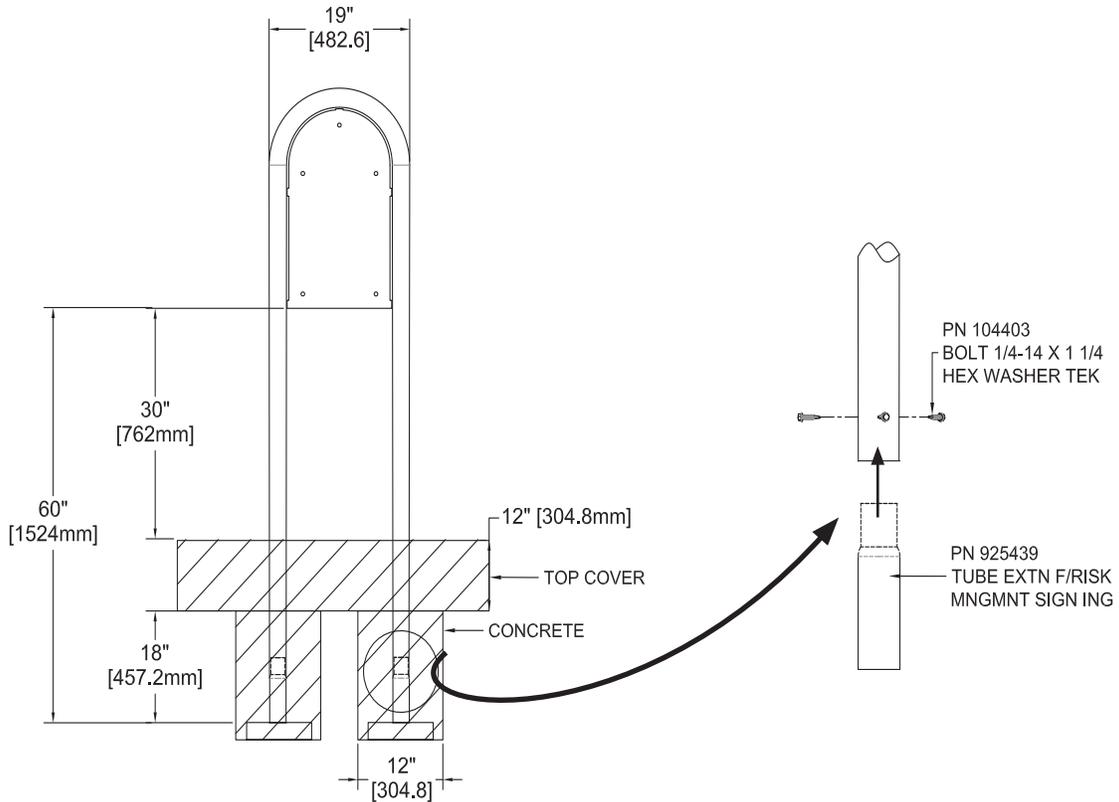
- 4a. Place a brick in the bottom of each hole so the sign will rest on the brick when inserted.
- 4b. Set risk management sign in footings per *Construction Drawings* pour concrete; plumb sign in footings and brace in position until concrete is cured.



Risk Management Sign

STEP 5 SET SIGN IN FOOTINGS - INSIDE PLAY AREA

- 5a. Place a brick in the bottom of each hole so the sign will rest on the brick when inserted.
- 5b. Insert the 10" tube extension into the risk management sign; use a rubber mallet, if needed, to swage the extensions for a tight fit; secure with Tek screws.
- 5c. Set the sign in the footings per Construction Drawings and 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.

Risk Management Sign

Bill of Material

Model 787

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	923551*	POST F/RISK MANAGEMENT SIGN
1	923560	PC F/787 RISK MNGMT ENGLISH
1	925441	PARTS CARTON RISK MNGMNT SIGN EXTN
1	HW923551-1	HRDW PKG RISK MANAGEMENT SIGN S1/1

Parts Carton 925441

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
2	925439	TUBE EXTN F/RISK MNGMNT SIGN ING
6	104403	BOLT 1/4-14 X 1 1/4 HEX WASHER TEK

HW923551-1

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
5	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM
10	200002079	WASHER FLAT M11 23 X 12 X 1.6MM
5	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5

Model 787FR

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	923551*	POST F/RISK MANAGEMENT SIGN
1	923558	PC F/787FR RISK MNGMT FRENCH
1	925441	PARTS CARTON RISK MNGMNT SIGN EXTN
1	HW923551-1	HRDW PKG RISK MANAGEMENT SIGN S1/1

Parts Carton 925441

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
2	925439	TUBE EXTN F/RISK MNGMNT SIGN ING
6	104403	BOLT 1/4-14 X 1 1/4 HEX WSHER TEK

HW923551-1

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
5	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM
10	200002079	WASHER FLAT M11 23 X 12 X 1.6MM
5	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5

Risk Management Sign

1000008

Risk Management Sign

Bill of Material cont.

Model 787SP

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	923551*	POST F/RISK MANAGEMENT SIGN
1	923559	PC F/787SP RISK MNGMT SPANISH
1	925441	PARTS CARTON RISK MNGMNT SIGN EXTN
1	HW923551-1	HRDW PKG RISK MANAGEMENT SIGN S1/1

Parts Carton 925441

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
2	925439	TUBE EXTN F/RISK MNGMNT SIGN ING
6	104403	BOLT 1/4-14 X 1 1/4 HEX WSHR TEK

HW923551-1

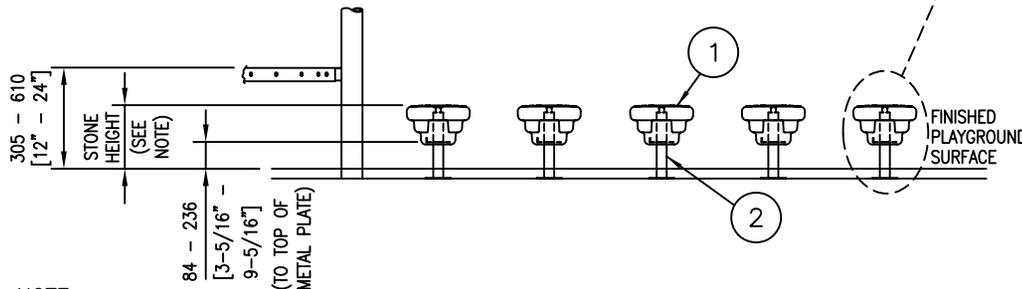
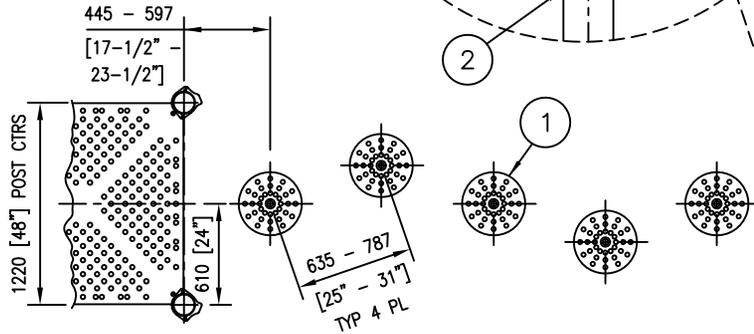
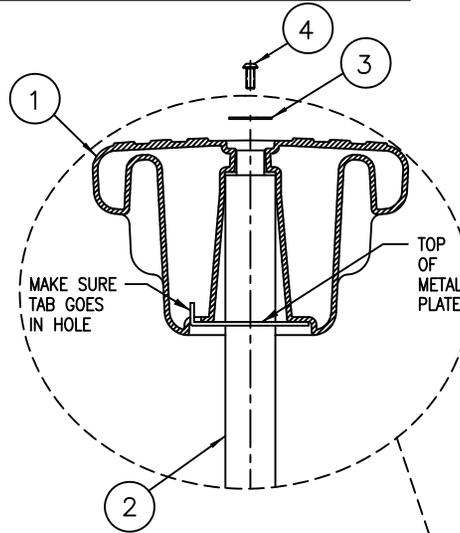
<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
5	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM
10	200002079	WASHER FLAT M11 23 X 12 X 1.6MM
5	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5



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.

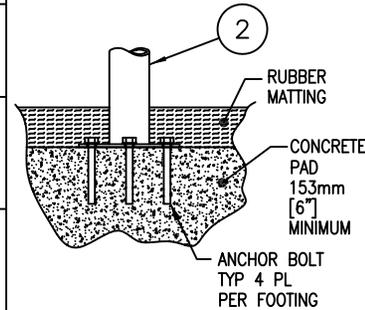
STEPS

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

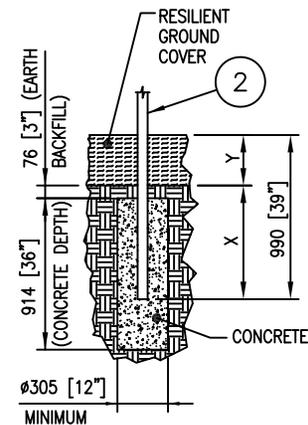
FASTENERS

FINISH: STAINLESS STEEL (METRIC).

Surface Mount Footing Detail



Inground Footing Detail



X PLUS Y = 990mm



Project Number: R0324200199

PlayArea: Additional Items |

Project Name:

Project Location:

Sales Representative:

Northland Recreation
10085 Bridgewater Bay
Woodbury, MN 55129
2623138636

Installation Instructions

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

Date: 3/3/2020 12:00:00 AM



PRODUCT IDENTIFICATION LABEL

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

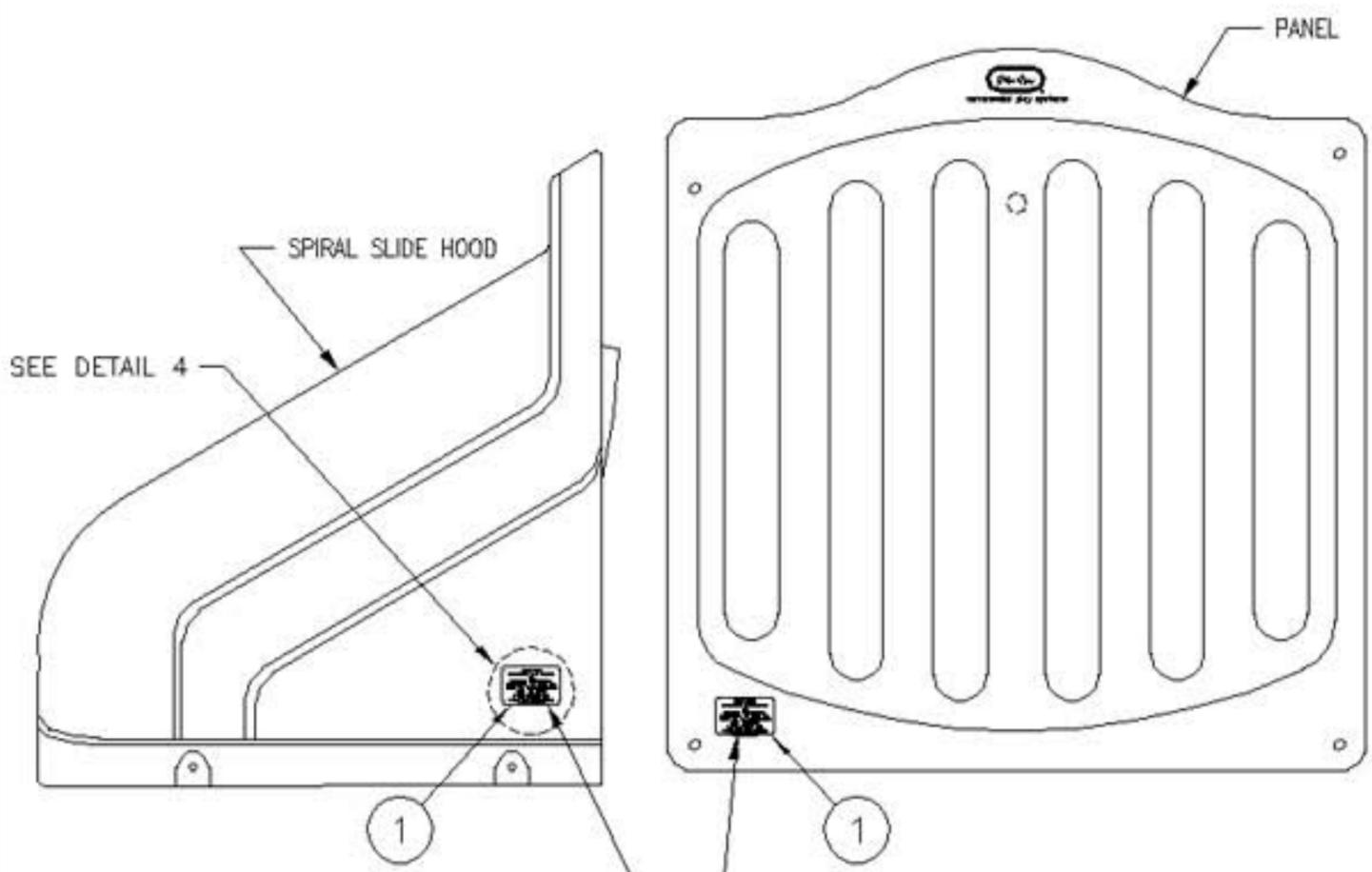
Application
This product identification label is an important part of your structure. It will provide key information for replacement parts and any warranty issues.

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.

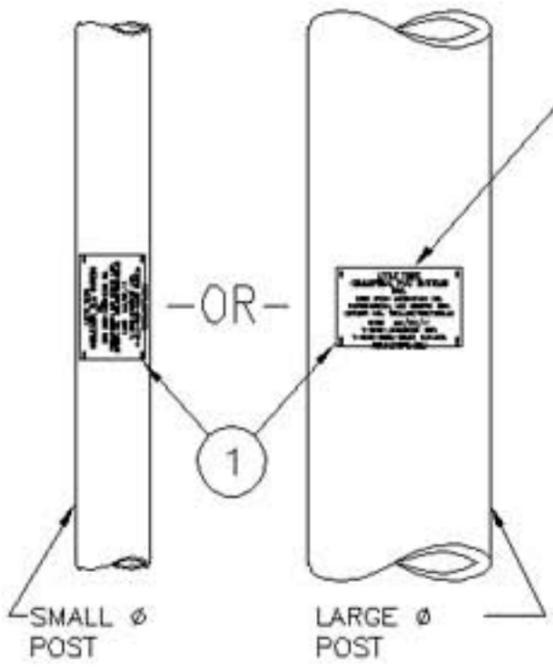
LITTLE TIKES
COMMERCIAL PLAY SYSTEMS
INC.
ONE IRON MOUNTAIN DR.
FARMINGTON, MO 63640 USA
ORDER NO. 123456789012345
DATE MM/DD/YY
1-800-325-8828 USA
1-800-265-9953 CANADA
WWW.LTTIKES.COM



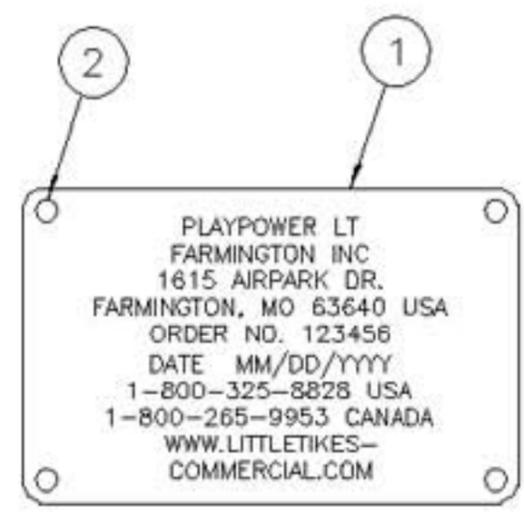
DETAIL
1

DETAIL
2

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



DETAIL
3



DETAIL
4

1

2



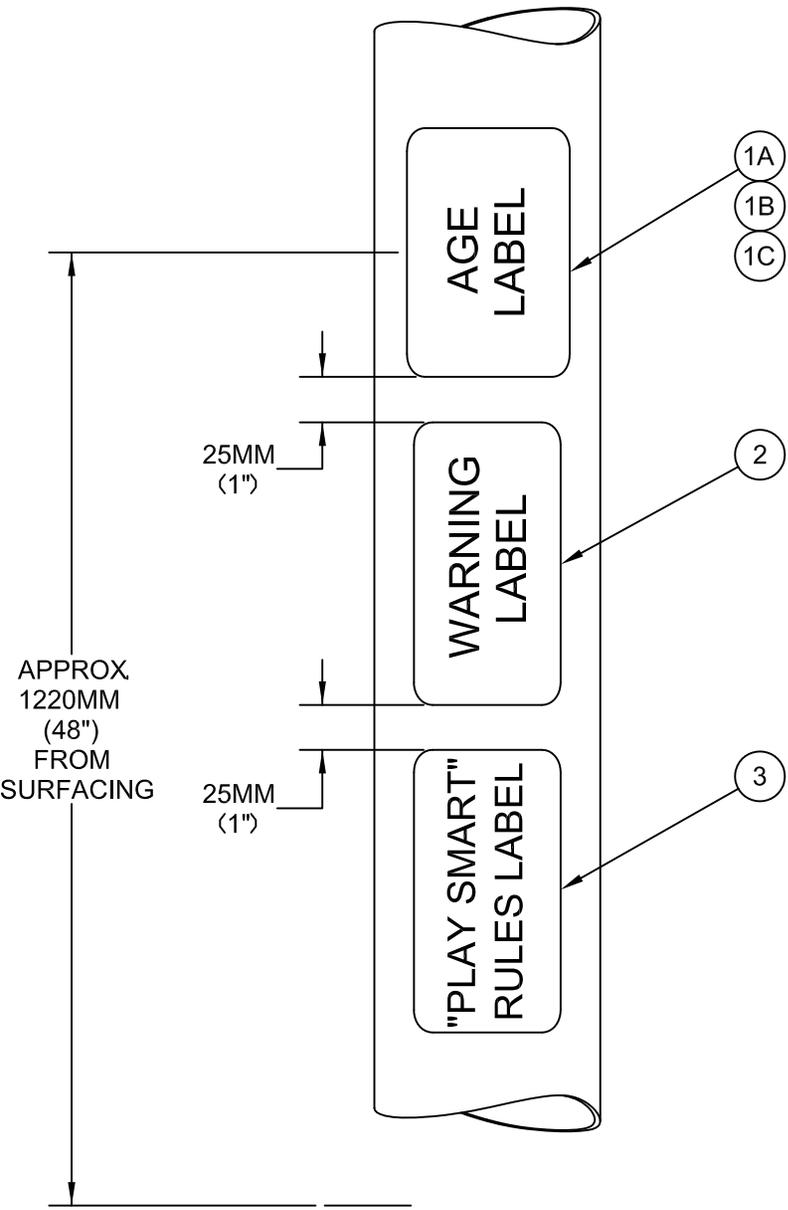


commercial play systems

AGE APPROPRIATE LABELS

1000005B

Sheet 1 of 1



AGE APPROPRIATE LABEL (2 TO 5 YRS) 200104304

Item	Code	Description	Qty.
1A	200104304	LABEL AGE APP. (2 TO 5 YRS.)	1
2	116022	LABEL WARNING - PLAYGROUND - ENGLISH	1
3	116099	LABEL, PLAY SMART RULES	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.

AUTHORIZED BY: 03JUL18
TRACY ARCHER

1A



1B



1C



APPENDIX A:

Wingra Park

**PLAYGROUND EQUIPMENT MANUFACTURER'S
INSTALLATION INSTRUCTIONS**

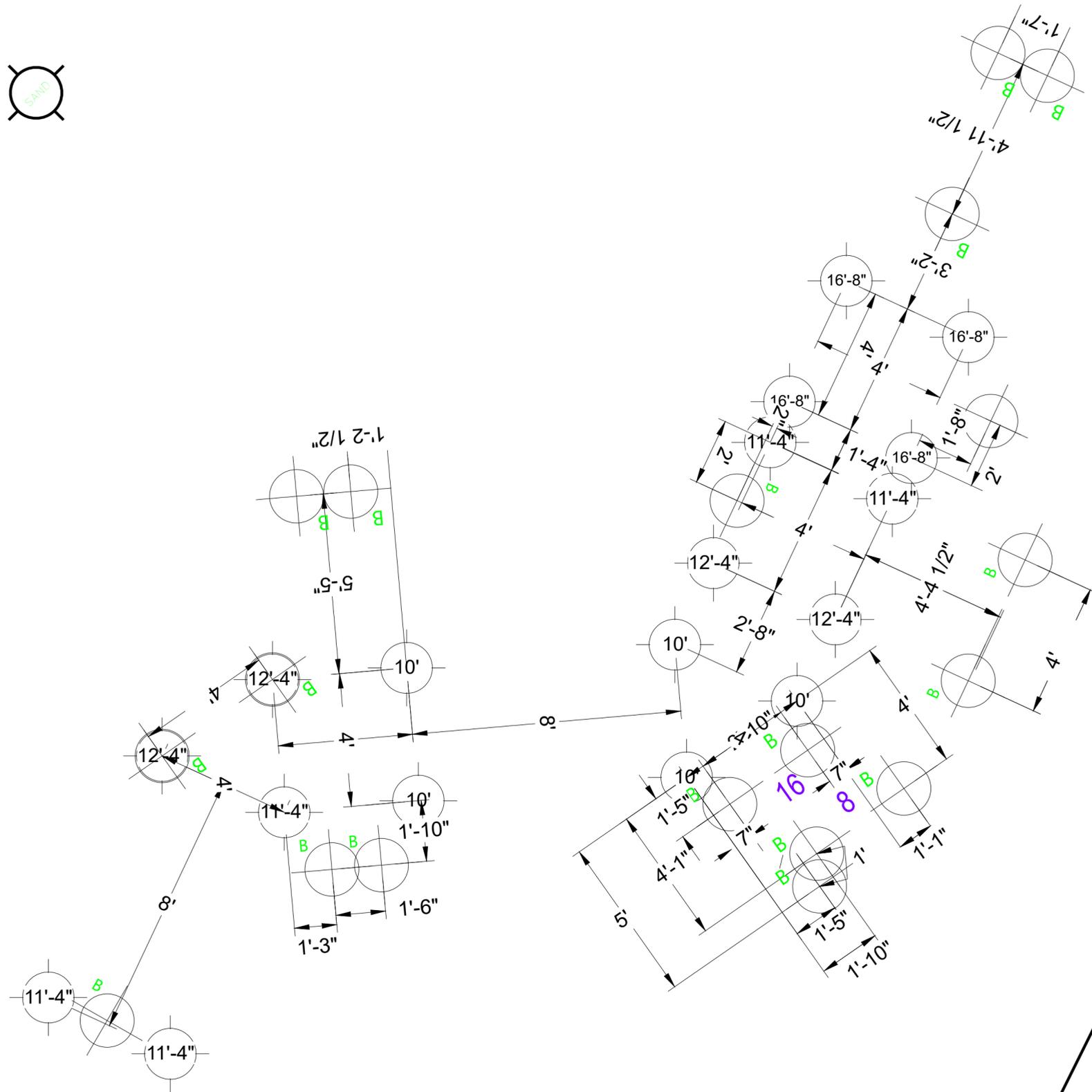


Project Number: R0324200140
PlayArea: PlayArea_1 | KidBuilders
Project Name:
Project Location:
Sales Representative:
Northland Recreation
10085 Bridgewater Bay
Woodbury, MN 55129
2623138636

Installation Instructions

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

Date: 2/19/2020 12:00:00 AM



Footing Drawing Legend: Numbers in center of symbols denote post length (inches).

For inground equipment:

Post footing for posts for caps.



Play event footing



Post footing for posts without caps.

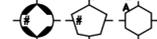


Custom Footing. See install for details



For surface mounted equipment:

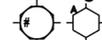
Post footing for posts with caps.



Play event footing.



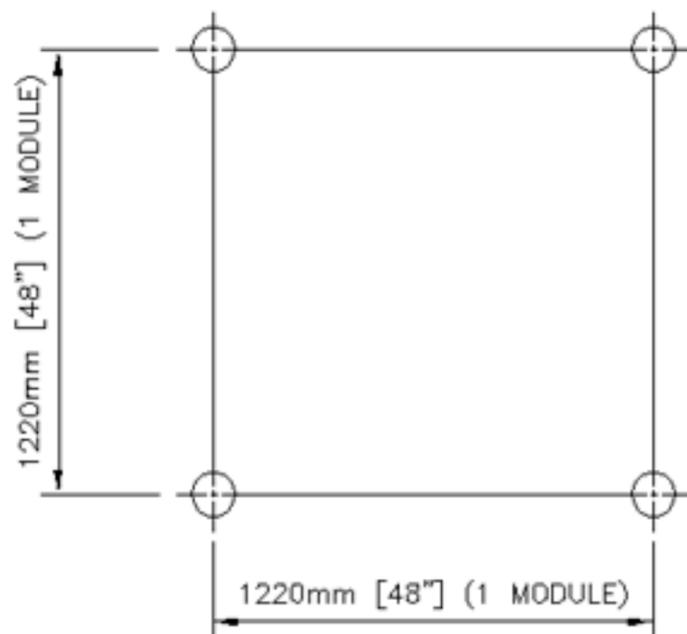
Post footing for posts without caps.



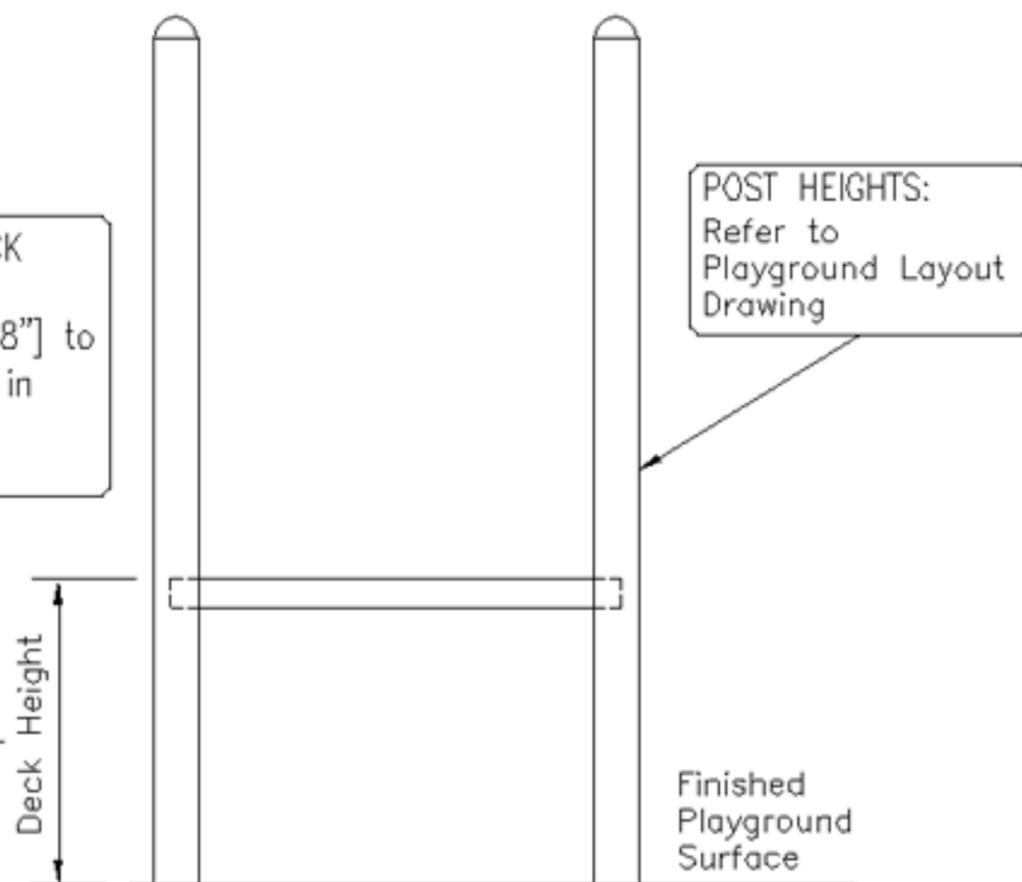
Custom Footing. See install for details



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

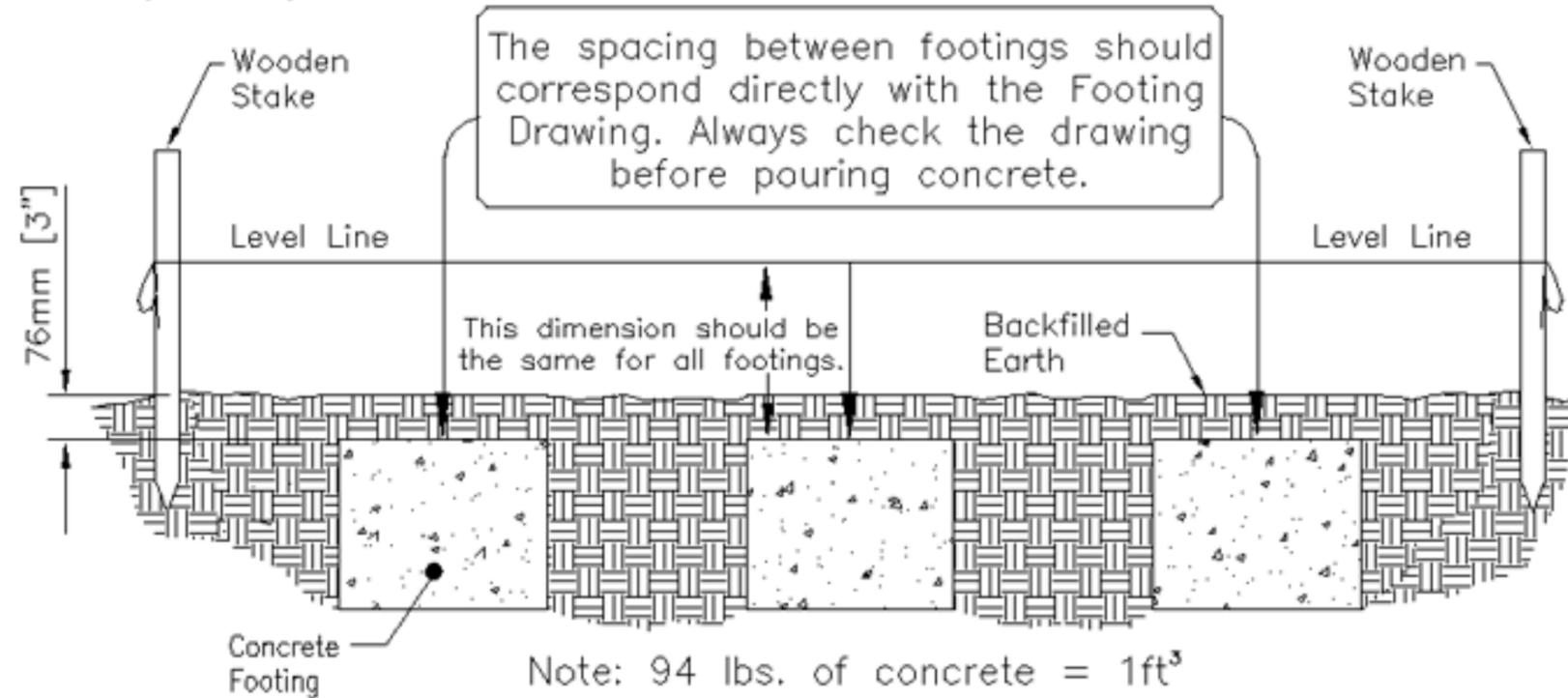
THE ORDER OF ASSEMBLY:

- 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 = 1ft³
207 grams = 0.041m³

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.

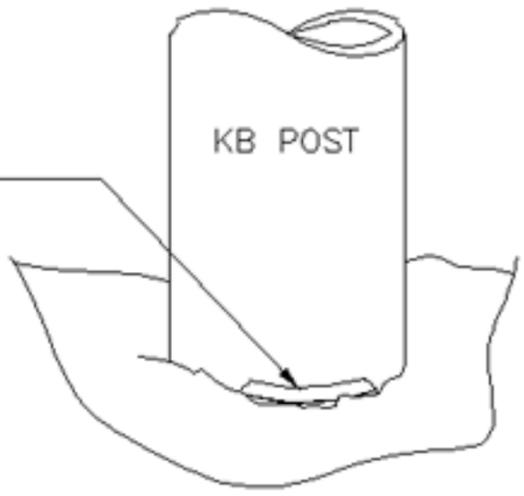
Do not place this label in a high traffic area or in a location of excessive wear. If the label becomes illegible, destroyed, or removed, it is necessary for the operator to replace the label as soon as possible.

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.

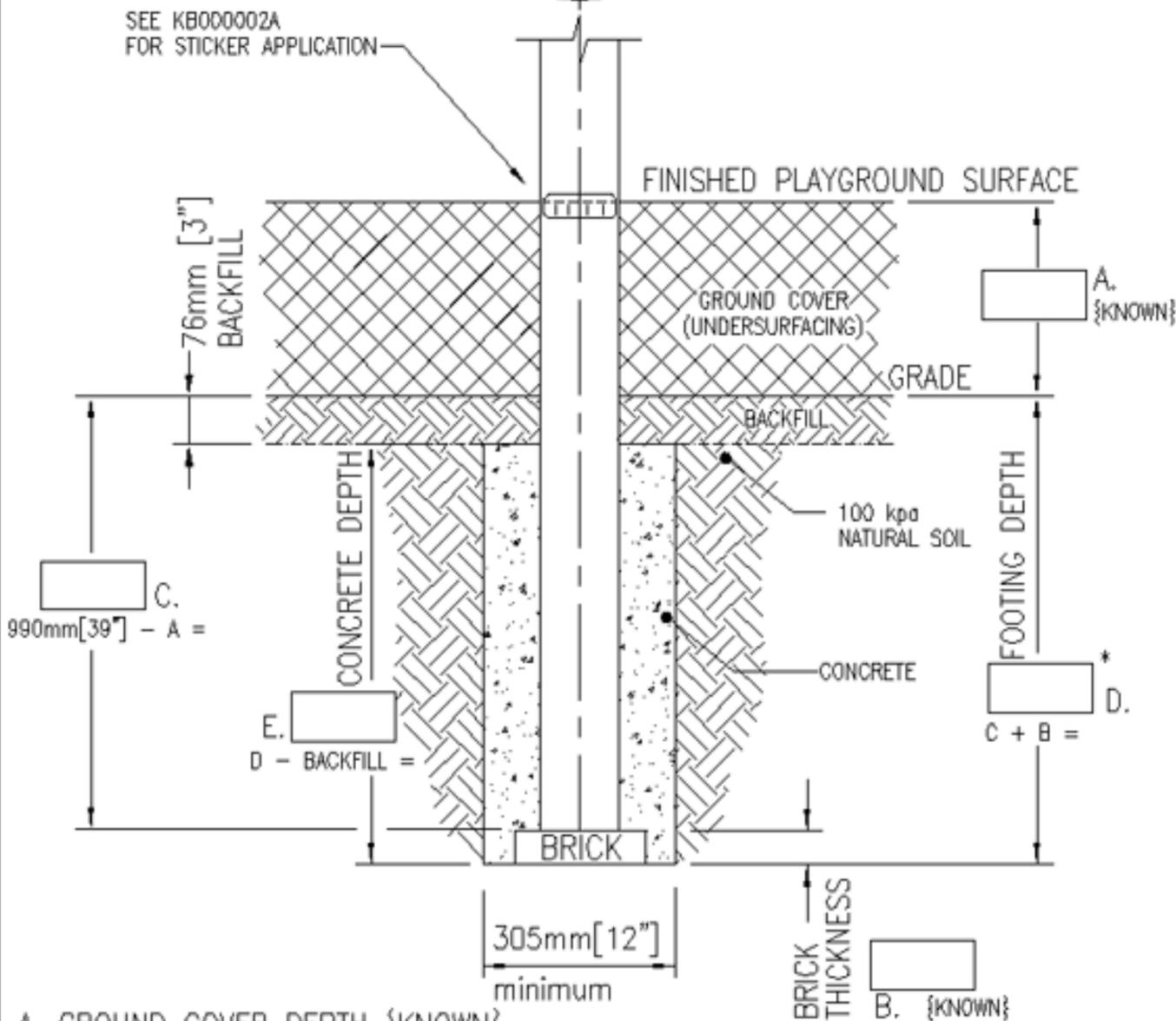
If you are in need of Material Safety Data Sheets pertaining to the use and handling of any maintenance materials such as touch-up paint, vinyl repair kits or for product such as, Kid Tiles adhesive or urethane top coatings, please contact our Customer Service Department at 1(800)325-8828. They will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

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



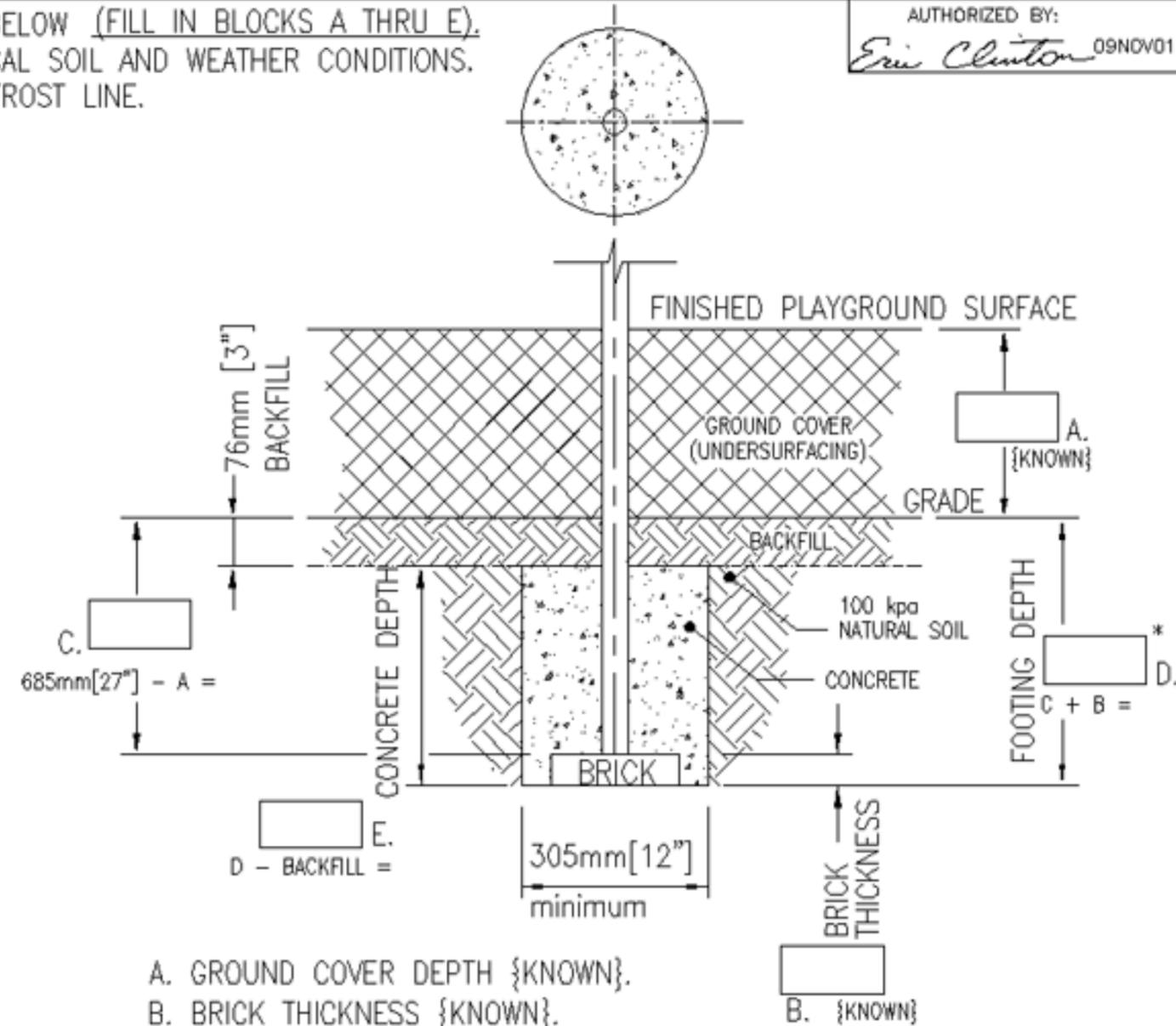
The sticker shown here has been provided to assist with the maintenance of your ground cover. After installing the ground cover, these stickers should be placed on the post by the installer (as shown). Peel the backing away from the sticker and attach it to the post so that the line is level with the 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. 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:

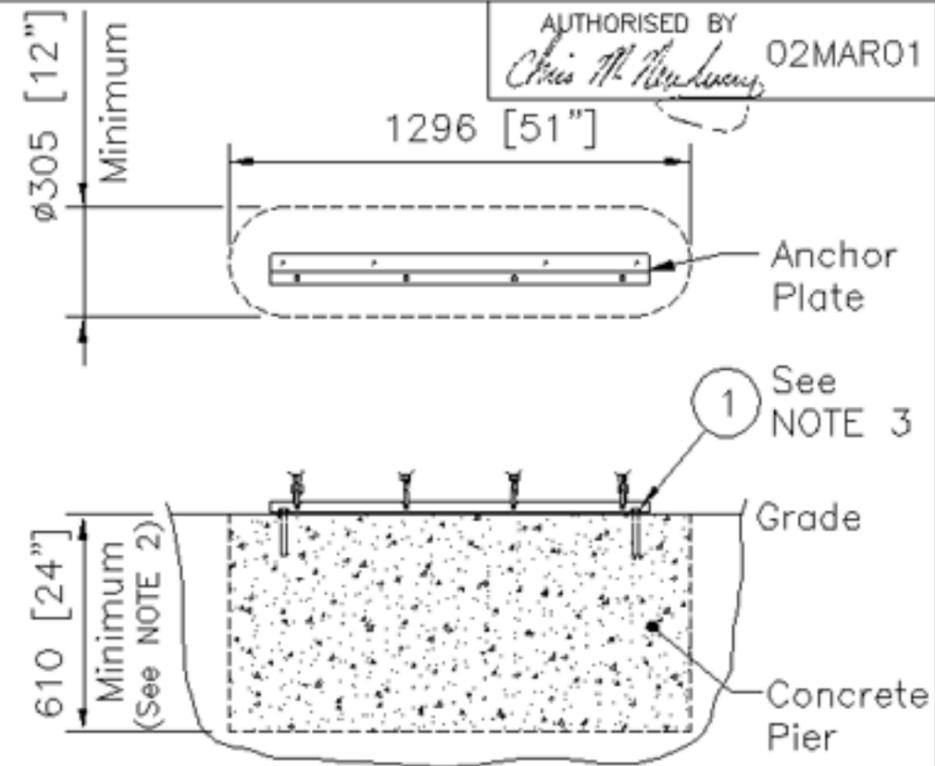
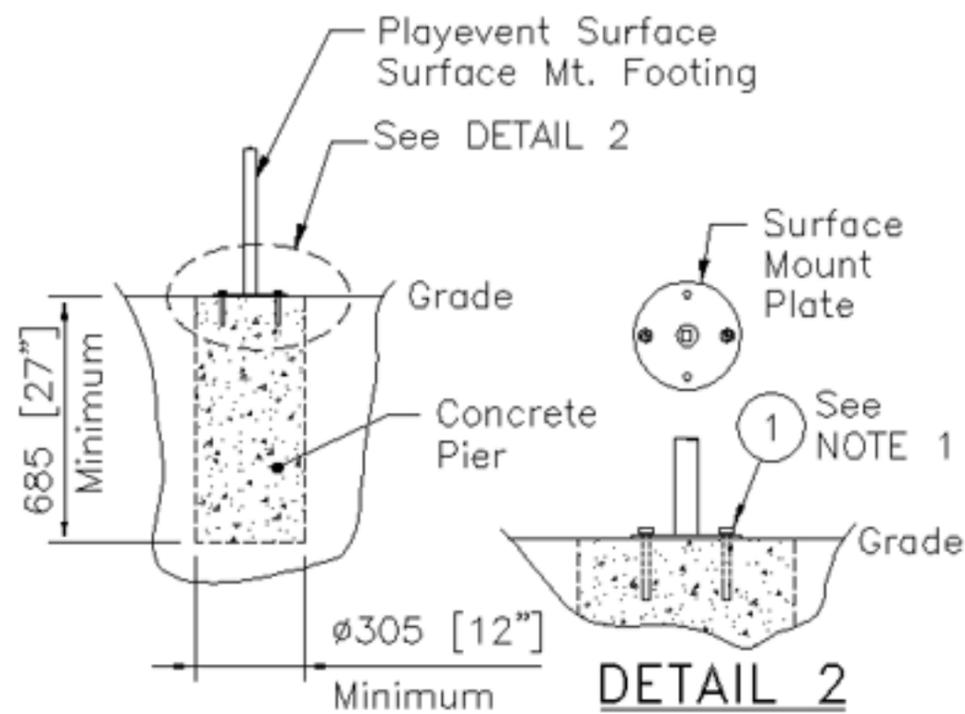
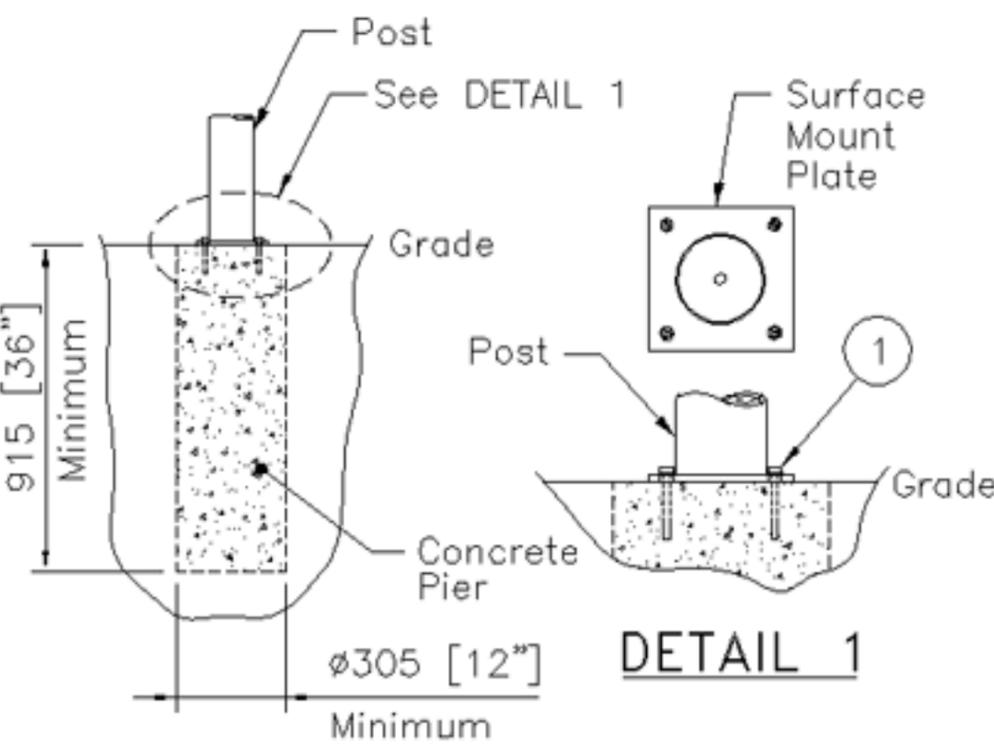
= 0.067 M³ x $\frac{\text{CONCRETE DEPTH (mm)}}{915}$ x No. OF FOOTING HOLES = M³

= 0.087 Yard³ x $\frac{\text{CONCRETE DEPTH (IN)}}{36}$ x No. OF FOOTING HOLES = Yard³

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

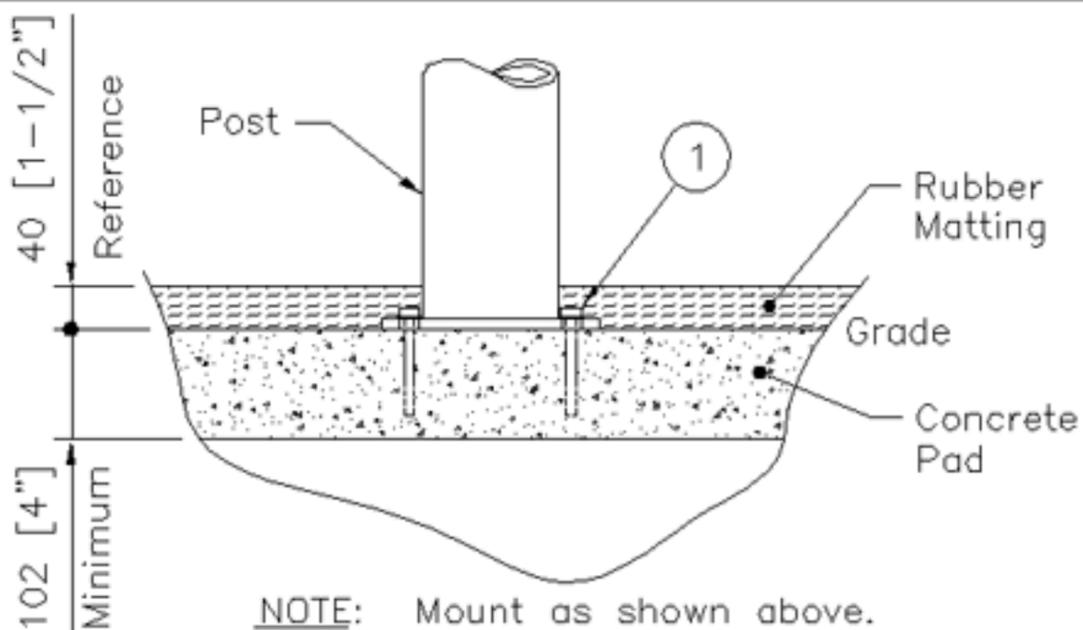
Item	Dwg Ref	Description	Qty.
1	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100MM	2

Playevent Footing

OPTION 2: CONCRETE PAD

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

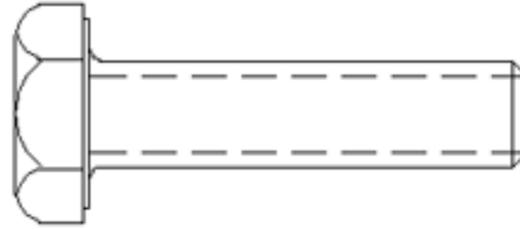
NOTE 5: A 3/8" Masonry bit is required to install anchor bolts.



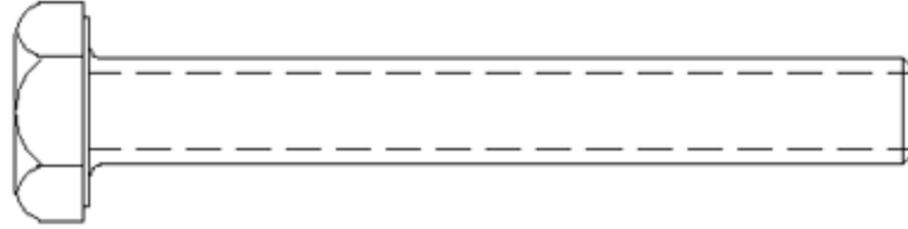
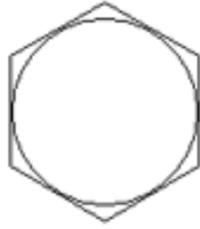
NOTE: Mount as shown above.

AUTHORIZED BY:
Chris M. Newberry 01MAR01

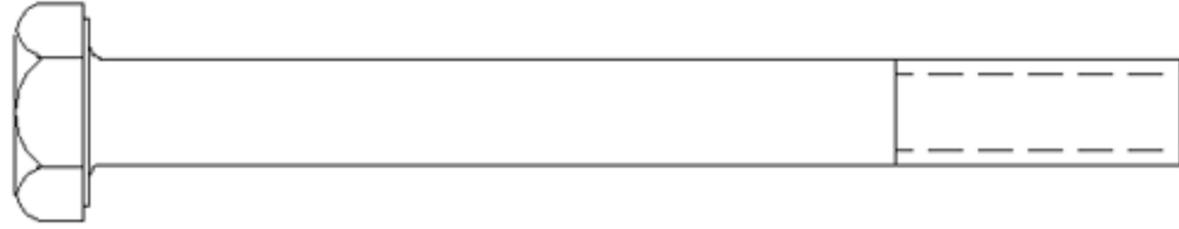
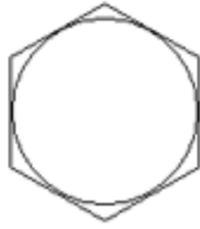
200001850
CAP SCREW HEX HEAD M10 x 1.50 x 40mm



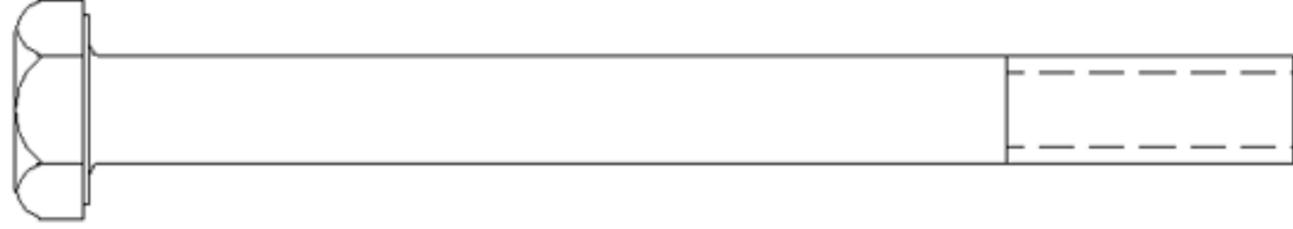
200001859
CAP SCREW HEX HEAD M10 x 1.50 x 75mm



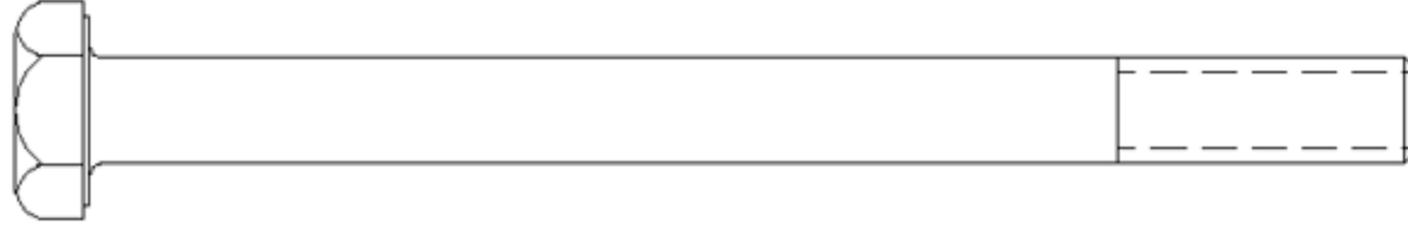
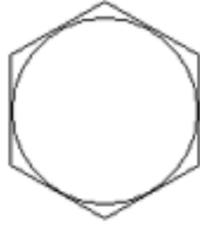
200001866
CAP SCREW HEX HEAD M10 x 1.50 x 100mm



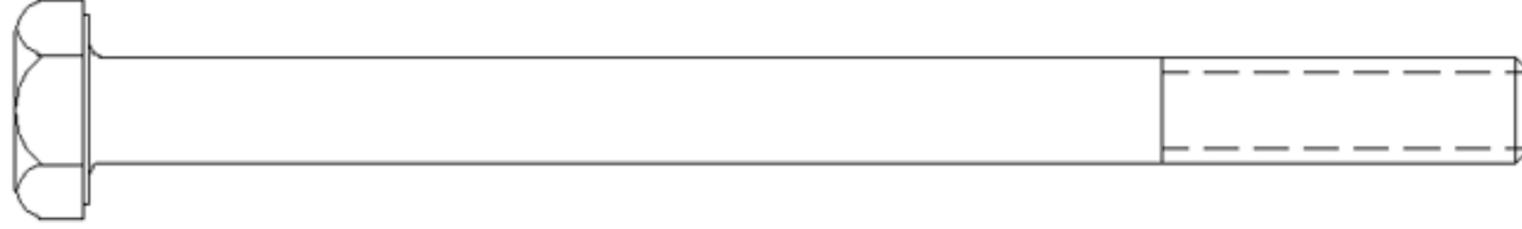
200001875
CAP SCREW HEX HEAD M10 x 1.50 x 110mm



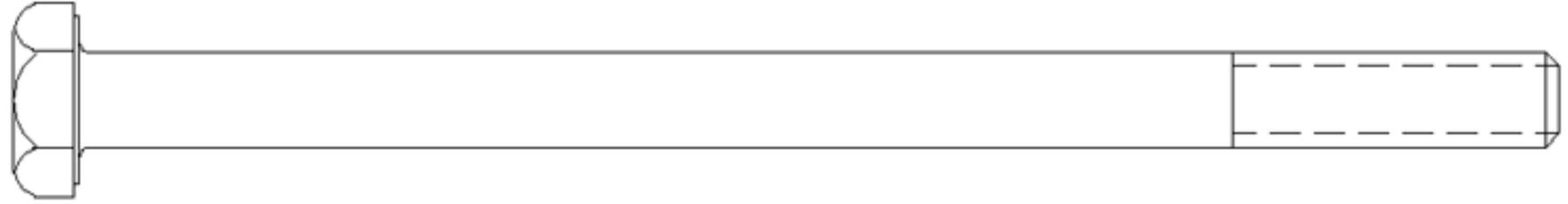
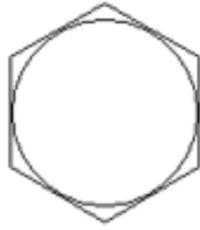
200001879
CAP SCREW HEX HEAD M10 x 1.50 x 120mm

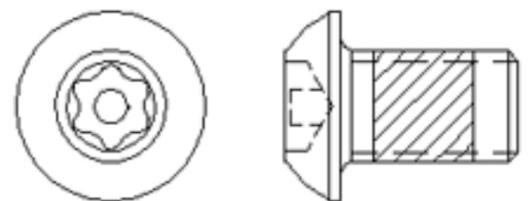


200001883
CAP SCREW HEX HEAD M10 x 1.50 x 130mm

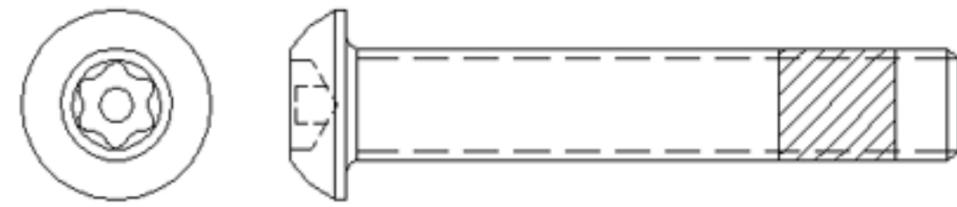


200000792
CAP SCREW HEX HEAD M10 x 1.50 x 150mm

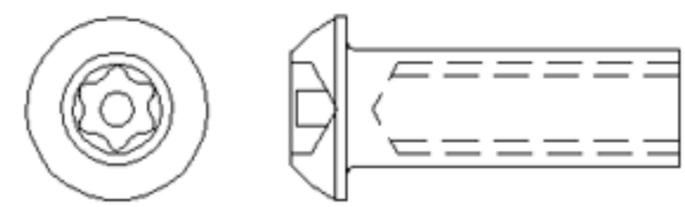




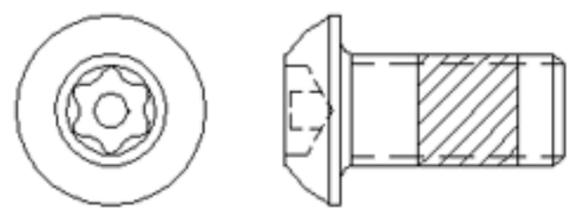
200002010
SCREW MACH BUTTONHEAD M10 x 1.50 x 16mm



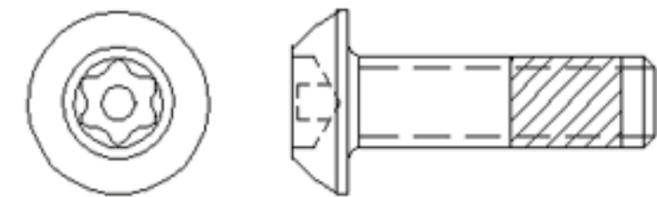
200002150
SCREW MACH BUTTONHEAD M10 x 1.50 x 55mm



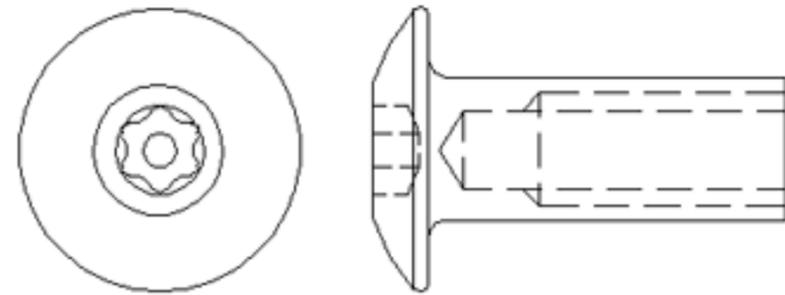
200002145
BOLT M8 x 1.25 FEMALE 10.3 x 30mm



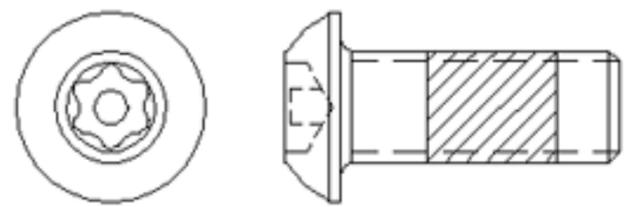
200002014
SCREW MACH BUTTONHEAD M10 x 1.50 x 20mm



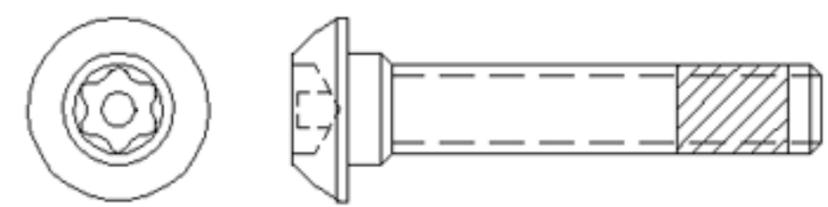
200002133
BOLT M8 x 1.25 MALE 27.5mm



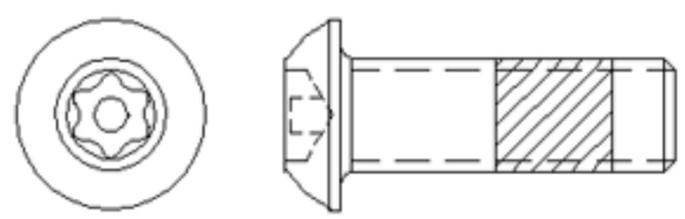
200001954
BARREL NUT M10 X 1.50 (12.70 DIA x 32mm)



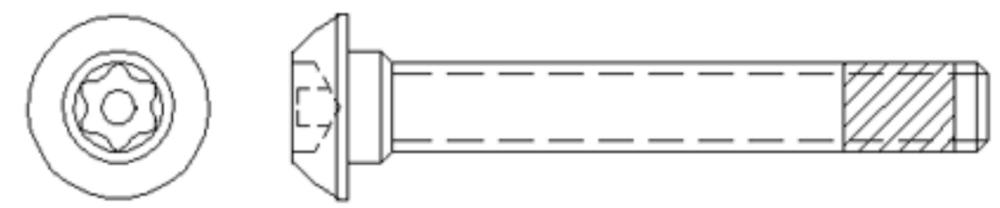
200002018
SCREW MACH BUTTONHEAD M10 x 1.50 x 25mm



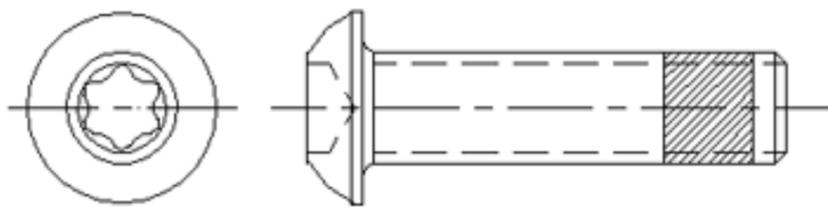
200002138
BOLT M8 x 1.25 MALE 42.5mm



200002030
SCREW MACH BUTTONHEAD M10 x 1.50 x 30mm

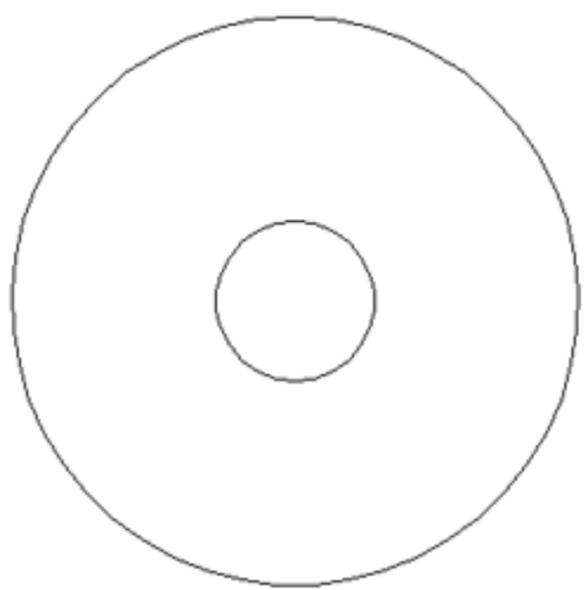


200002142
BOLT M8 x 1.25 MALE 57.5mm

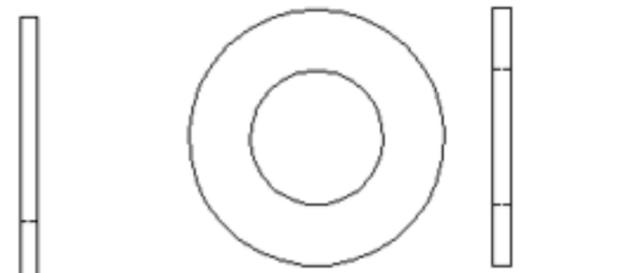


200097726
SCREW MACH BUTTONHEAD M10 x 1.50 x 38mm

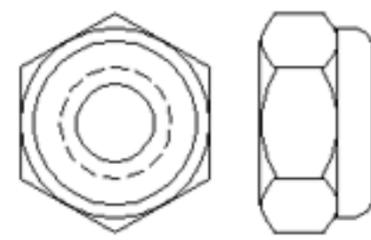
AUTHORIZED BY:
BARRY WILFONG 15FEB12



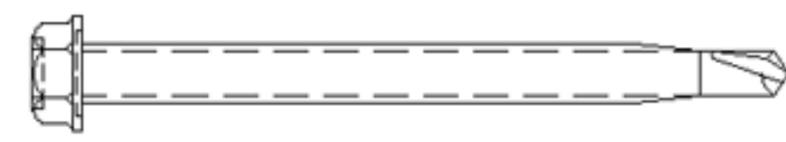
200002113
WASHER FLAT M12 (51 x 14.5 x 2mm)



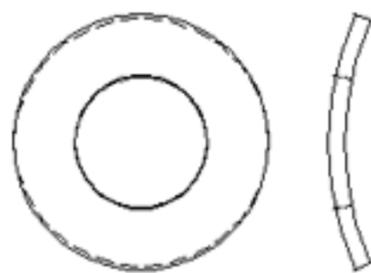
200002079
WASHER FLAT M11 23 x 12 X 1.6mm



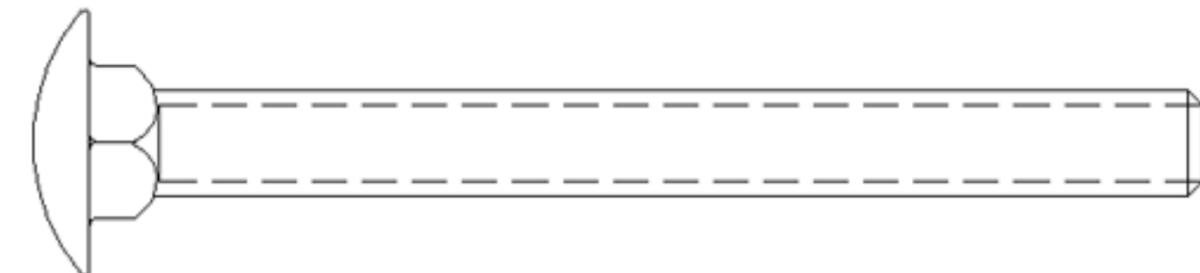
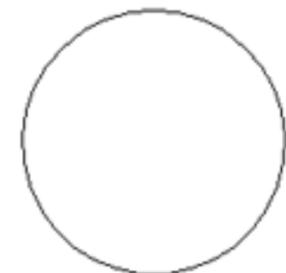
200001945
NUT LOCK HEX NYLON INSERTED M10 x 1.5



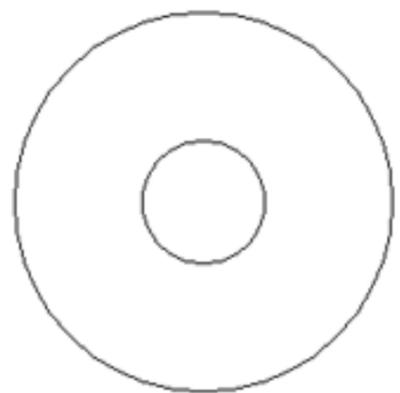
200002002
SCREW DRILL HEX HEAD M6 .3 x 1.81 x 65mm



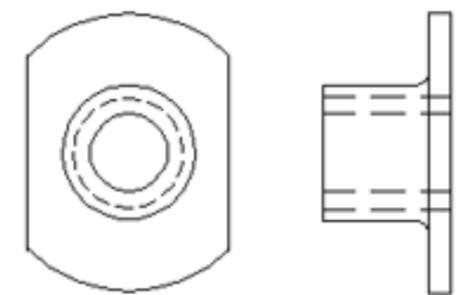
200008483
WASHER BOWED M11 23.5 x 11.7 x 1.57 mm



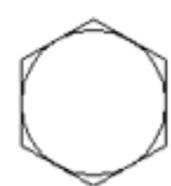
200001810
BOLT CARRIAGE M10 x 1.50 x 100mm



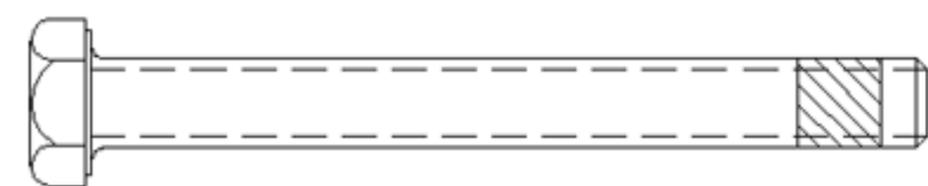
200002096
WASHER FLAT M10 34OD x 11ID x 3 mm THK



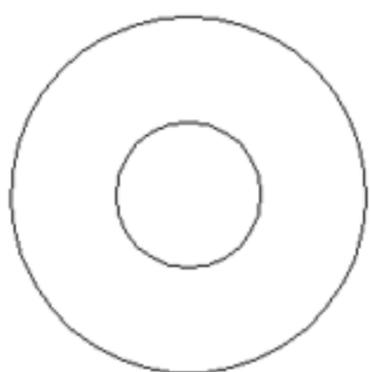
200001966
T-NUT SLAB BASE M10 x 1.50 x 9.5mm



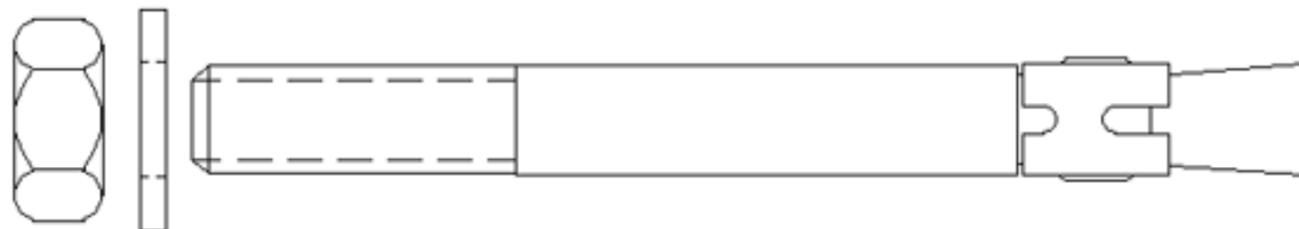
200001826
CAP SCREW HEX HEAD M8 X 1.25 X 75mm



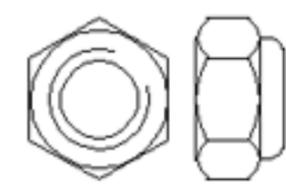
200001986
SCREW U-DRIVE ROUND HEAD M5 x 16mm



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



200001776
ANCHOR CONCRETE WEDGE M10 x 1.5 x 100mm



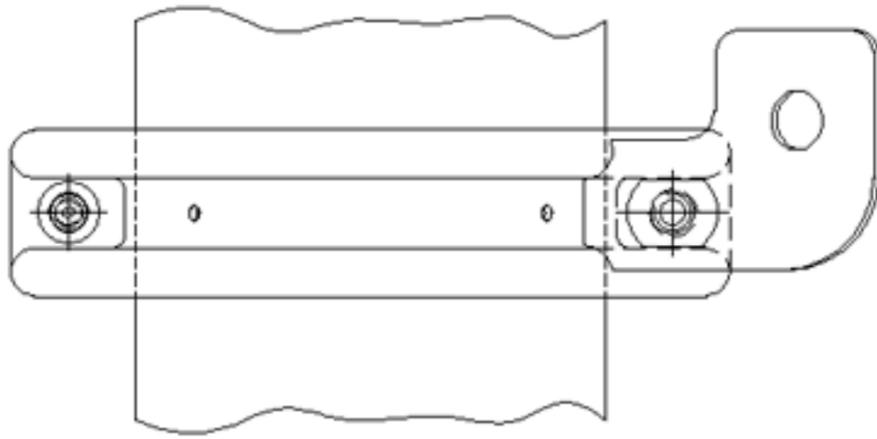
200001934
NUT LOCK HEX NYLON INSERTED M8 x 1.25



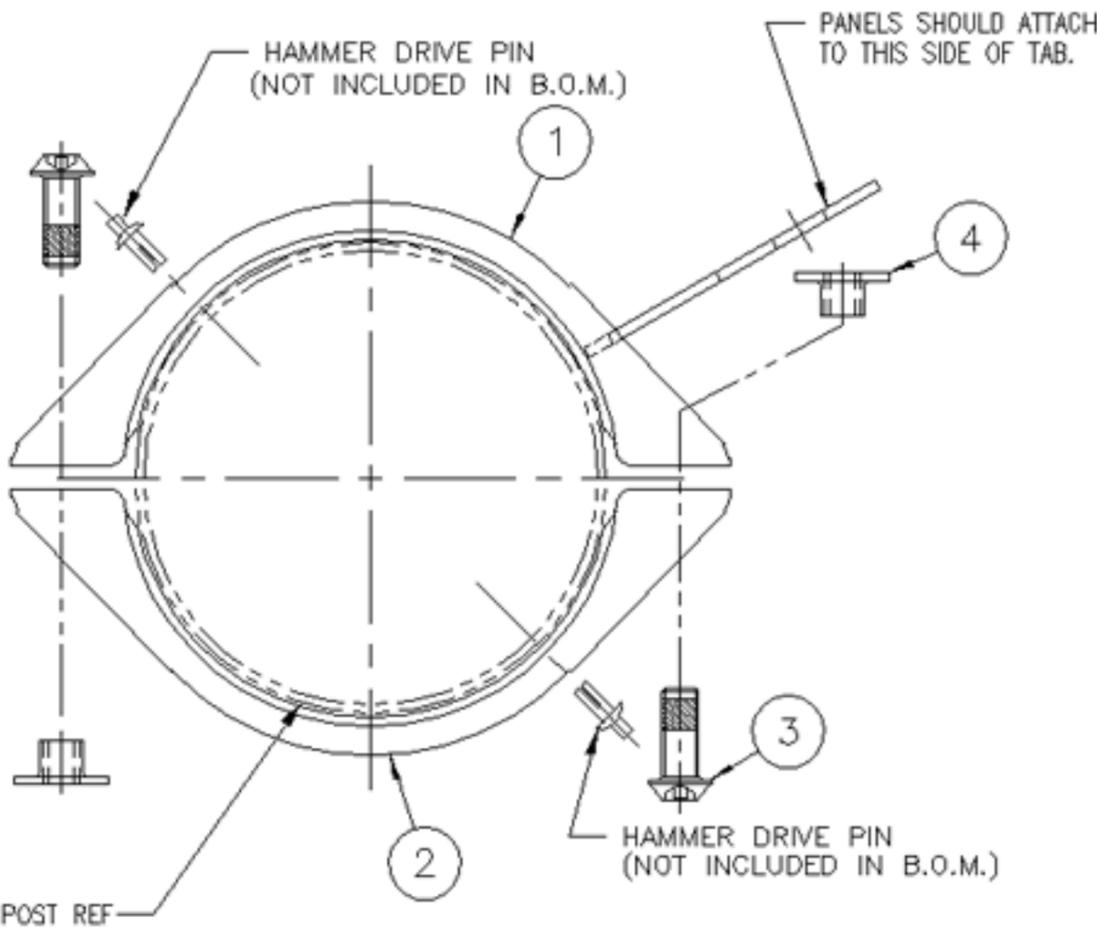
CLAMP HI-LO TAB F/KB

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

KB000009A

AUTHORIZED BY:
[Signature] 03AUG99

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

Application

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

Maintenance

- CHECK ALL HARDWARE
 - TOUCH UP ANY MARRED PAINT SURFACE

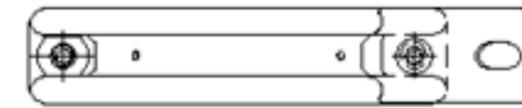
FASTENERS
 FINISH: STAINLESS STEEL.

Installation Instructions

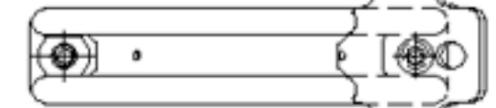
1. POSITION THE CLAMP HALVES AROUND THE POST AND LOOSELY CONNECT HALVES TOGETHER WITH THE HARDWARE SHOWN. CLAMPS SHOULD BE ORIENTED SO THAT PANELS WILL ATTACH TO THE TAB FACE SHOWN IN THE DETAIL.
2. MOVE THE CLAMP ASSEMBLY ALONG THE POST UNTIL IT LINES UP WITH THE LOCATION THAT IT WILL BE CONNECTED TO 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.

PANEL OR WING CLAMP

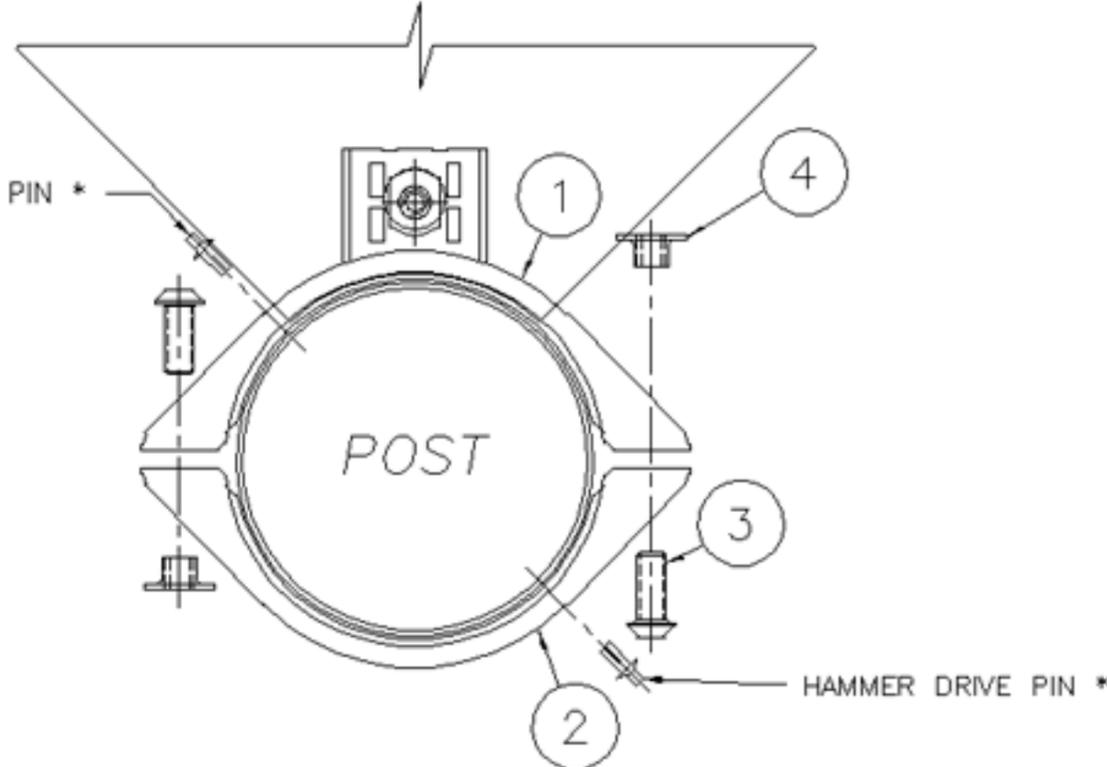
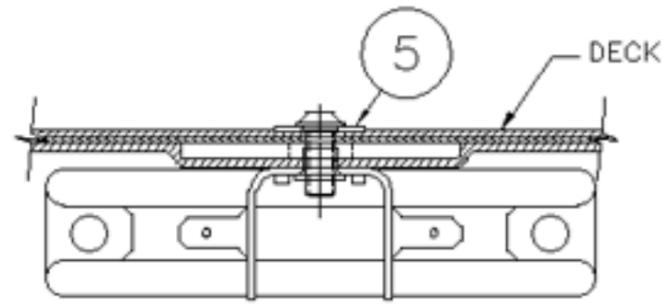
ITEM	CODE	DESCRIPTION	QTY
1	-	CLAMP HALF W/TAB F/PANEL MT. ZN	1
-OR-	-	CLAMP HALF W/TAB F/KB WING CLAMP	1
2	-	CLAMP HALF W/O WELDED ATTACHMENT ZN	1
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	2
4	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	2



REF: PANEL CLAMP

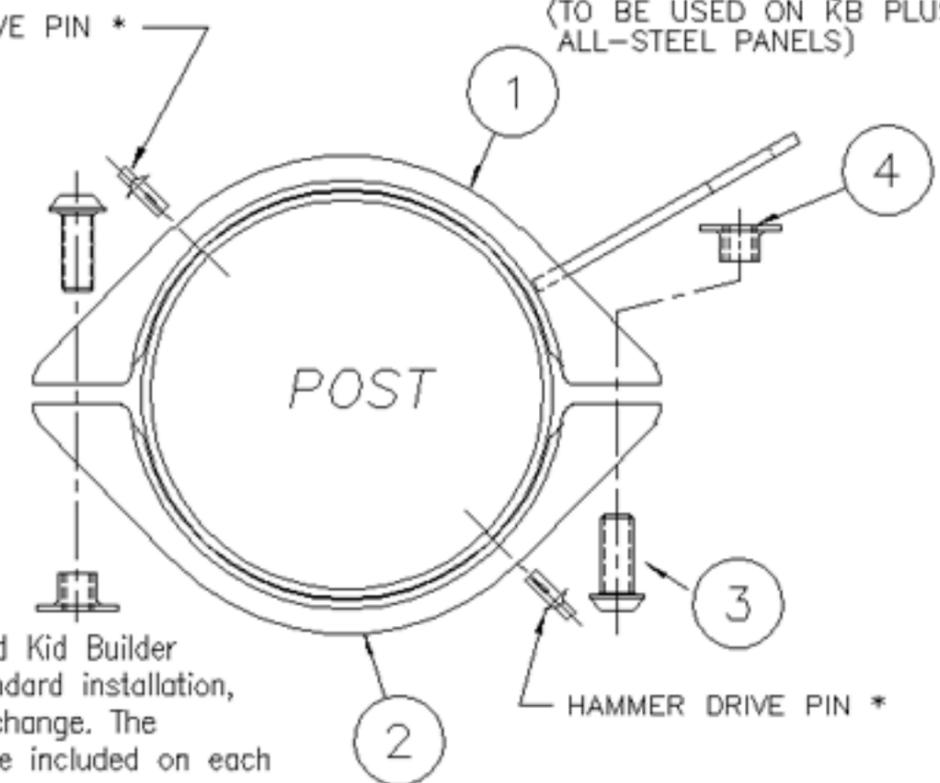


REF: WING CLAMP
(TO BE USED ON KB PLUS ALL-STEEL PANELS)



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.

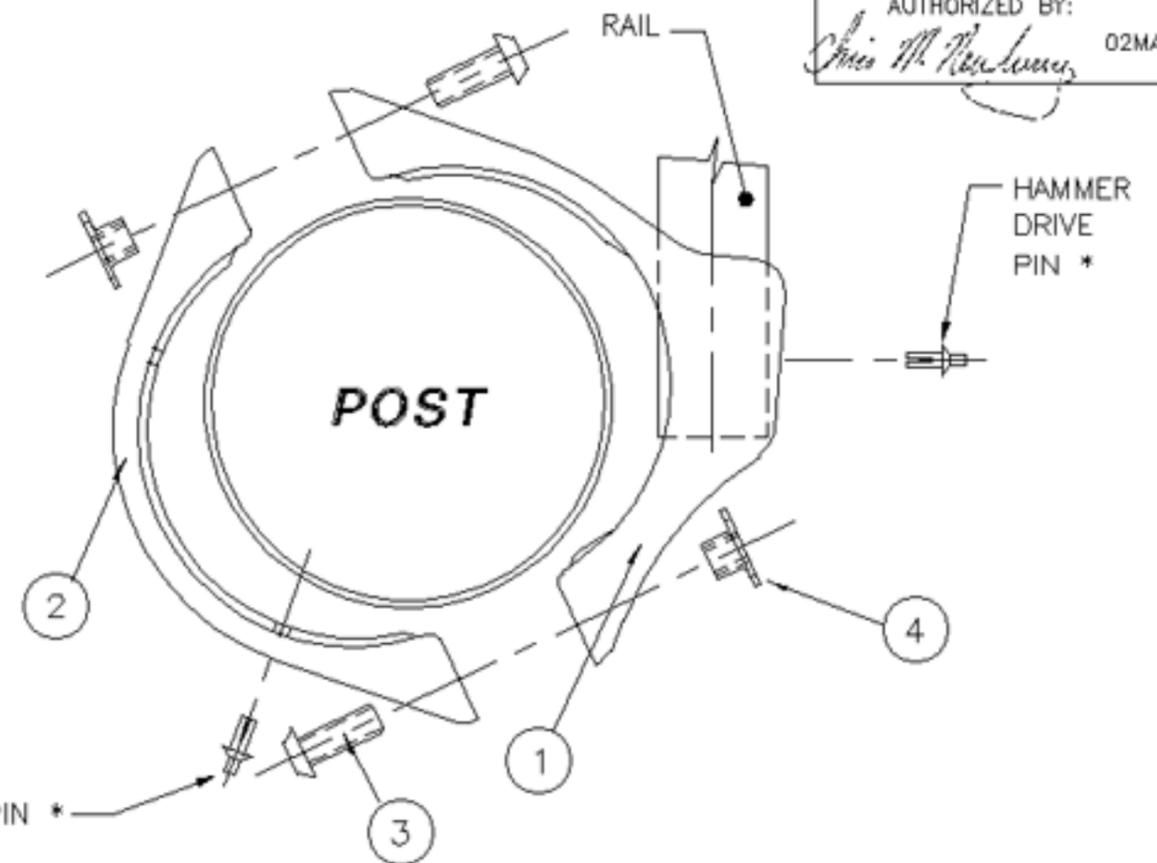
* Hammer drive pins are not included in the clamp hardware bag. They are located in a separate bag in the hardware kit.

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.

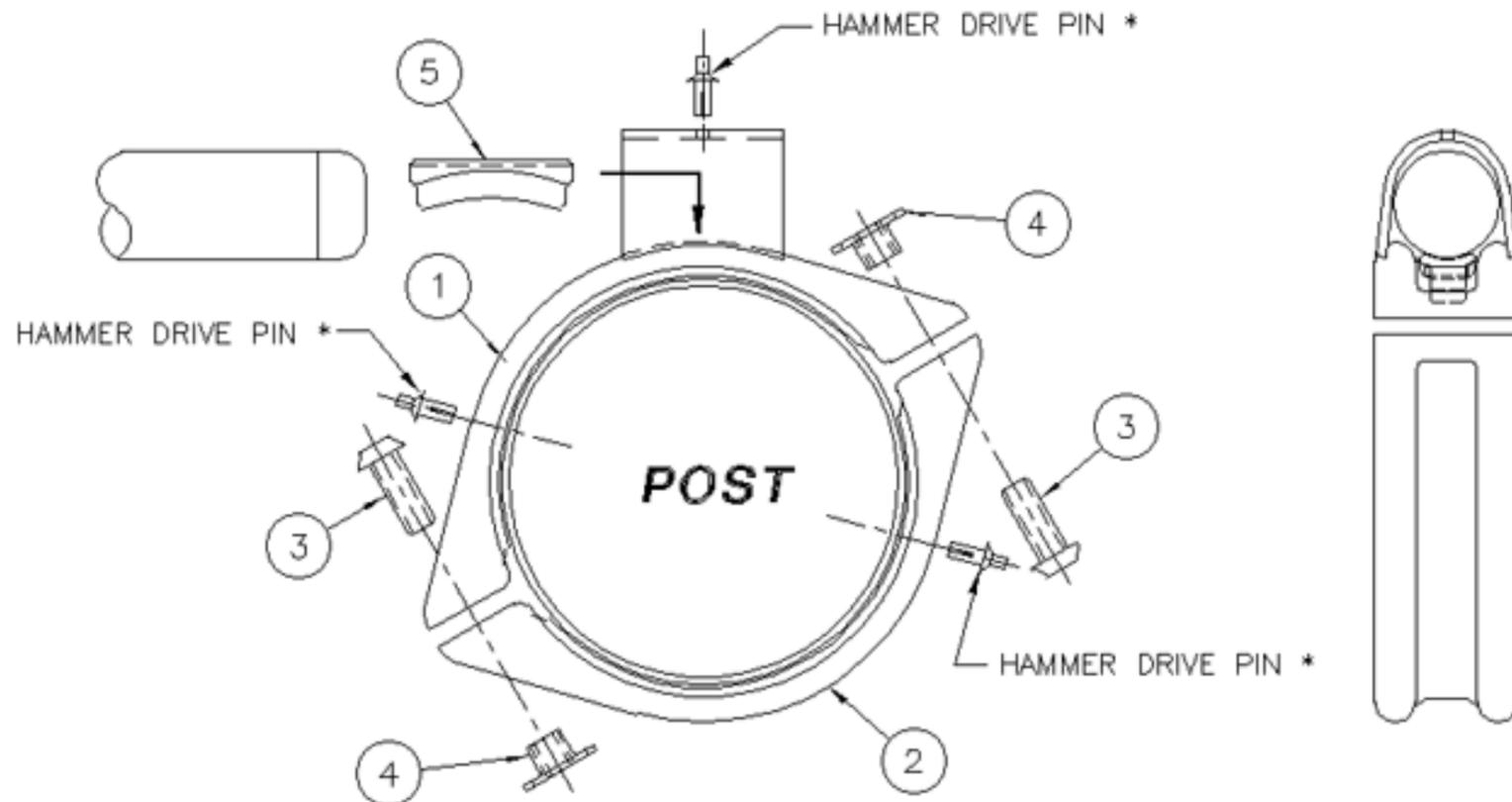
1. Each Clamp half will have a small hole and a large hole on opposite sides. The Larger hole accommodates the Tee Nuts.
2. Always make sure the event is at the proper height and the clamps are level before Hammer Drive Pins are installed.
3. There will also be two smaller pilot holes on each clamp half. 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

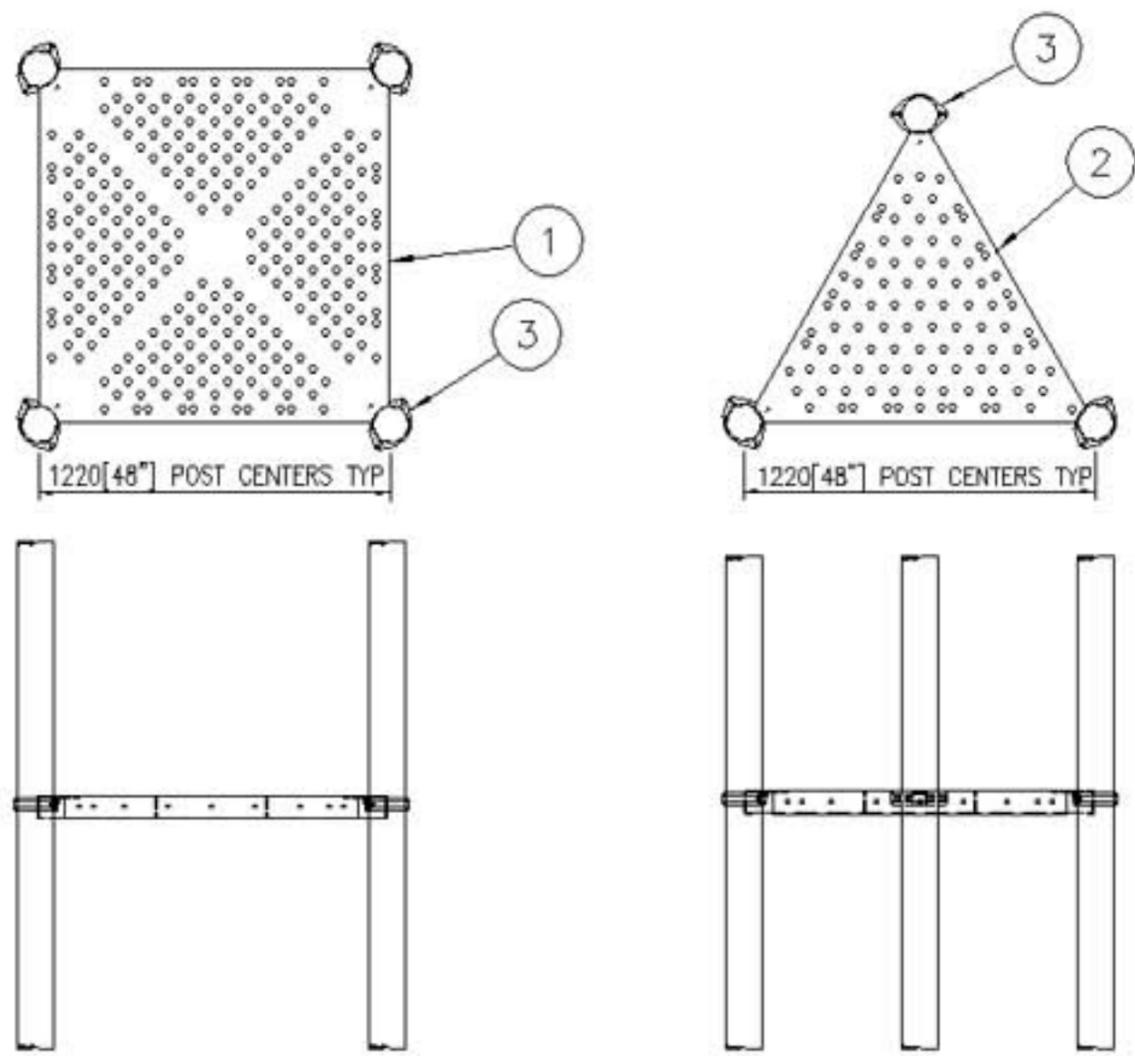
ITEM	DRG REF	DESCRIPTION	QTY
1	-	CLAMP HALF W/ATT. F/RAILS ZN 30 DEG.	1
2	-	CLAMP HALF W/O WELDED ATTACHMENT ZN	1
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25 MM	2
4	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5 MM	2
5	200000733	SPACER WEDGE ALUM. F/KB CLAMP F/SLOT	1



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)

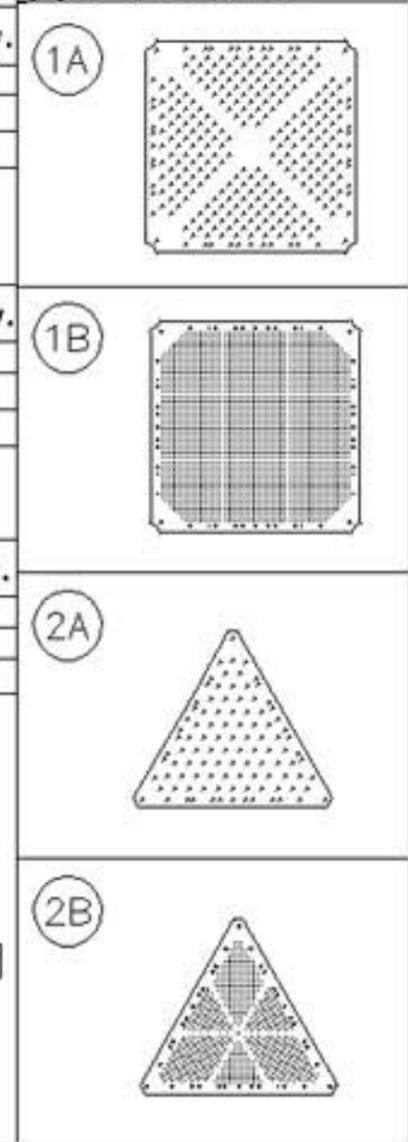
Item	Code	Description	Qty.
1A	-	DECK SQUARE KB W/27 MM HOLES	1
1B	-	DECK SQUARE KB SMALL HOLE	1
3	-	* KB DECK CLAMP	4

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

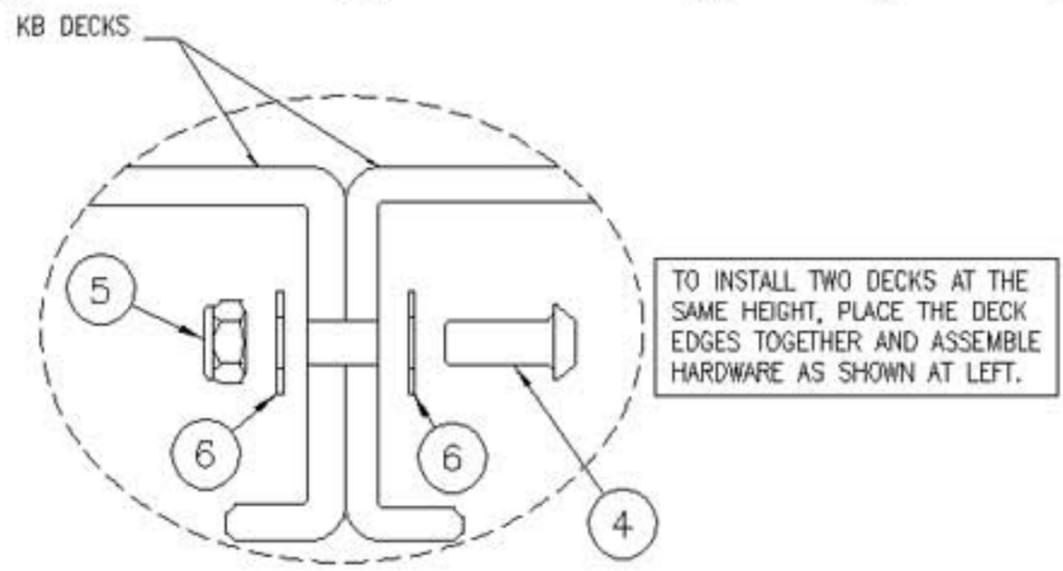
Item	Code	Description	Qty.
4	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	7
5	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	7
6	200002079	WASHER FLAT M11 X 12 X 1.6MM	14



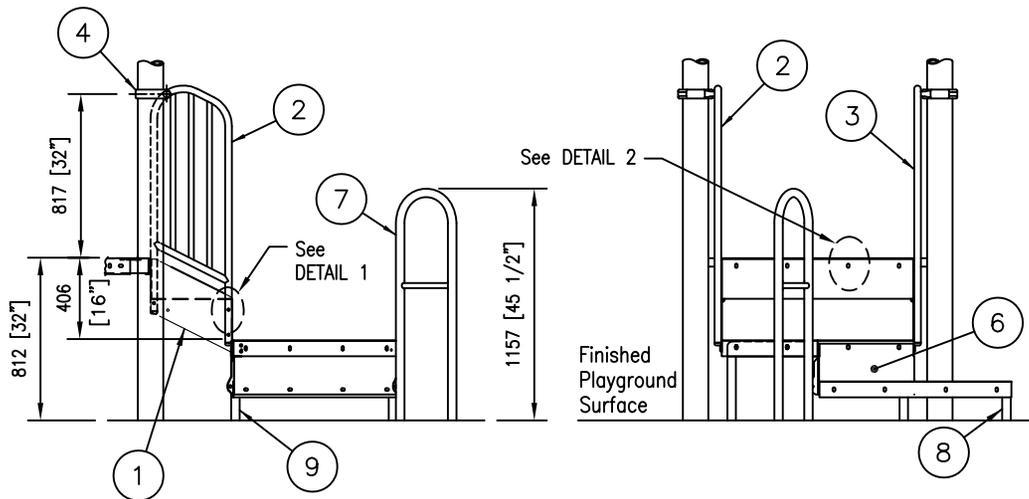
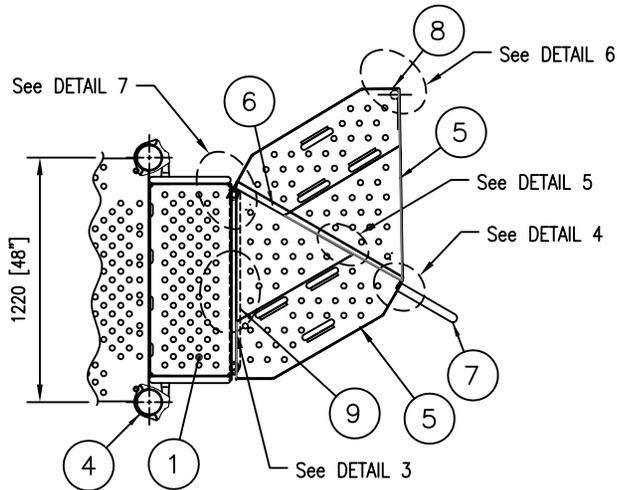
Application
AGE GROUPS (2-12 YEAR OLDS)
- Decks are considered platform events and can be used by all ages if installed at an appropriate height for the particular age group.
- A deck above 508mm [20"] must have an enclosure for ages 2-5 max. height difference between adjacent decks is 305mm [12"] without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



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



**RIGHT TRANSFER STATION
W/SAFETY RAILS SHOWN**

NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

- 200202550-KB TRANS STAT 812 SFTY RL 11GA
- 200202552-KB TRANS STAT 812 GRD RL 11GA
- 200202551-KB TRANS STAT 812 SFTY RL (SM HL)11GA
- 200202553-KB TRANS STAT 812 GRD RL (SM HL)11GA

Item	Code	Description	Qty.
1A	910549*	STEPS DECK-TO-DECK 406MM	1
1B	910548*	STEPS DECK-TO-DECK 406MM SM HOLE	1
2A	911032*	GUARD RAIL LFT KB 812 TRSFR	1
2B	911031*	GUARD RAIL RGT KB 812 TRSFR	1
3A	911030*	SAFETY RAIL LFT KB 812 TRSFR	1
3B	911029*	SAFETY RAIL RIIGHT KB 812 TRSFR	1
4	909346*	HOODED RAIL CLAMP F/KB	2
5A	902717*	DECK SNO CONE TRANSFER STATION LG HOLE	2
5B	902688*	DECK SNO CONE TRANSFER STATION SM HOLE	1
6	910421*	PLATE KICK F/TRANSFER STATION	1
7A	911253*	LOOP TRSFR STATION 40 SM	1
7B	911252*	LOOP F/TRSFR STATION 305 SFMT	1
7C	911251*	LOOP F/TRSFR STATION BURIED	1
8A	910044*	SUPP FOOT TRSFR STAT DK SM40	1
8B	910043*	SUPP FOOT TRSFR STAT DK SM305	1
8C	910042*	SUPP FOOT TRSFR STAT DK BURIED	1
9A	910041*	SUPP STEP TRSFR STAT 40 SRFMT	1
9B	904419*	SUPP STEP TRSFR STAT 305 SFMT	1
9C	910040*	SUPP STEP TRSFR STAT BURIED	1
10	HW1CLMPSET-1	HRDW PKG F/1SET O/CLAMPS S1/1	3
11	HW16252-1	HRDW PKG KB TRSFR STATION 1/4	1
12	HW16252-2	HRDW PKG KB TRSFR STATION 2/4	1
13	HW16252-3	HRDW PKG KB TRSFR STATIN 3/4	1
14	HW16252-4	HRDW PKG KB TRSFR STATIN M4/4	1

Note: An (*) by a part number (Code) indicate: Color Code Required.

HRDW PKG F/1SET O/CLAMPS S1/1 - HW1CLMPSET-1

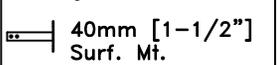
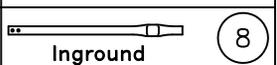
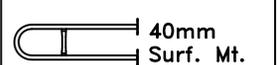
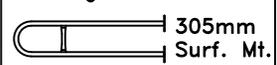
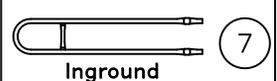
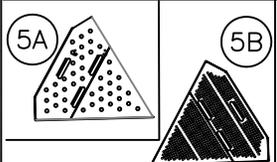
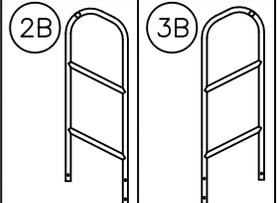
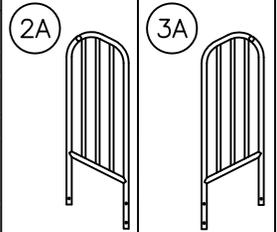
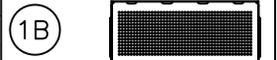
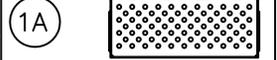
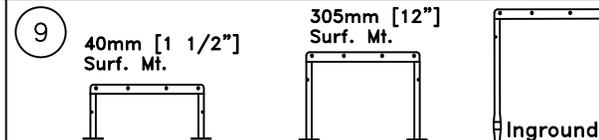
Item	Code	Description	Qty.
15	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	2
16	200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	2
17	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	2

**HRDW PKG KB TRSFR STATION 1/4 - HW16252-1
HRDW PKG KB TRSFR STATION 2/4 - HW16252-2
HRDW PKG KB TRSFR STATION 3/4 - HW16252-3
HRDW PKG KB TRSFR STATION M4/4 - HW16252-4**

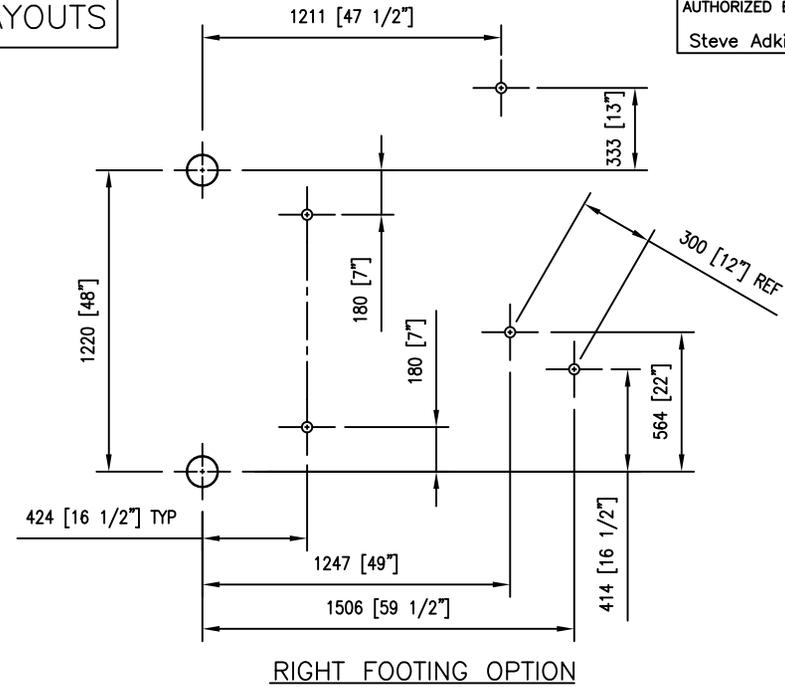
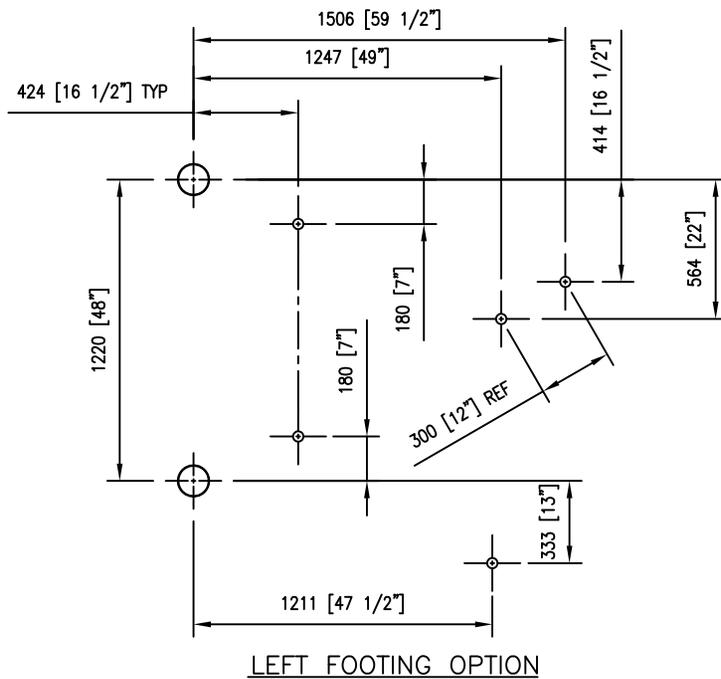
Item	Code	Description	Qty.
18	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	22
19	200002018	SCREW MACH BUTTONHEAD M10 X 1.5 X 25MM	12
20	200002030	SCREW MACH BUTTONHEAD M10 X 1.5 X 30MM	4
21	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	43
22	200002133	BOLT M8 X 1.25 MALE 27.5mm	5
23	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30mm	5
24	200002150	SCREW MACH. BUTTONHEAD M10 X 1.5 X 55mm	6
25	200008483	WASHER BOWED M11 23.5 X 11.7 X 1.57mm	11

Application

- Provides accessibility to structure.

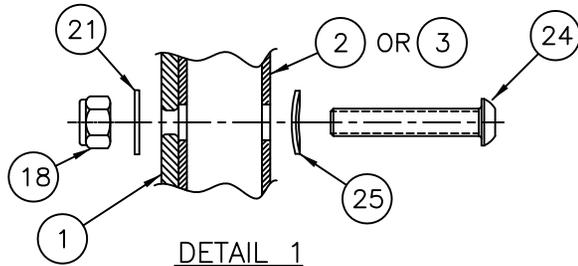


FOOTING LAYOUTS

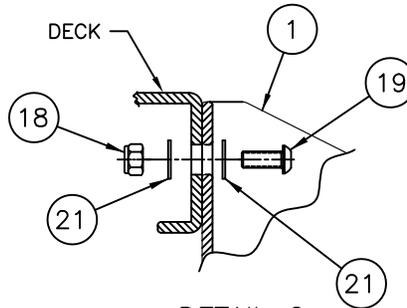


Installation Instructions

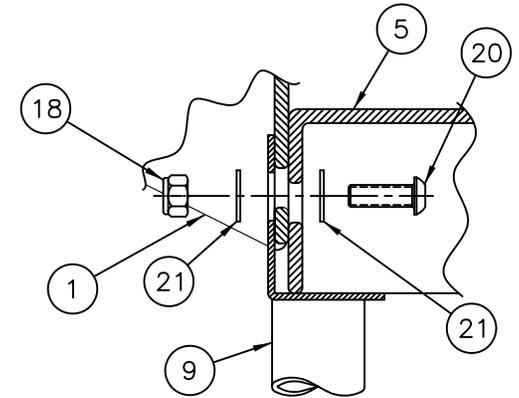
1. Prepare footings.
2. Place the Step Support under the lower end of the Steps. Attach the upper end of the steps to the existing deck edge (refer to DETAIL 2). Attach the Handrails to the sides of the Steps (refer to DETAIL 1), then attach the Handrails to the posts with Hooded Rail Clamps. (Refer 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.



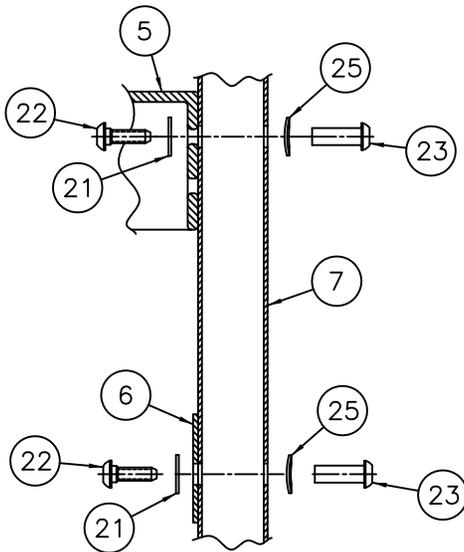
DETAIL 1
Typ 6 Places
(handrail to step attachment)



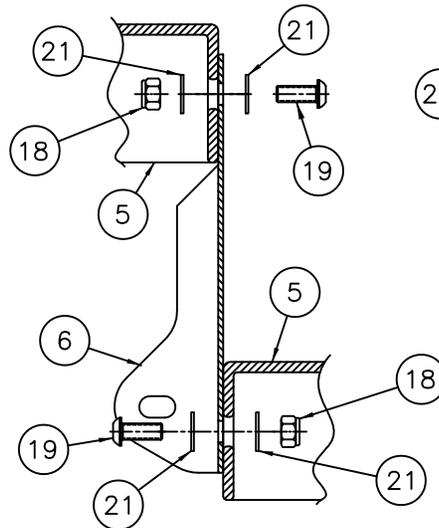
DETAIL 2
Typ 4 Places
(top of steps to deck attachment)



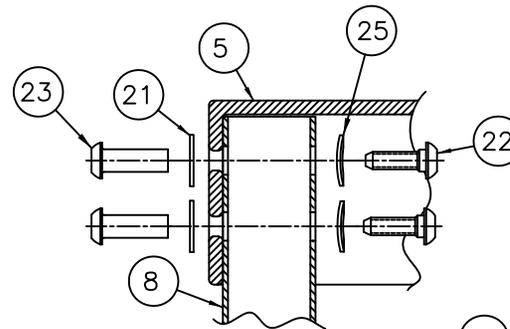
DETAIL 3
Typ 4 Places
(bottom of steps to upper sno cone deck & support step attachment)



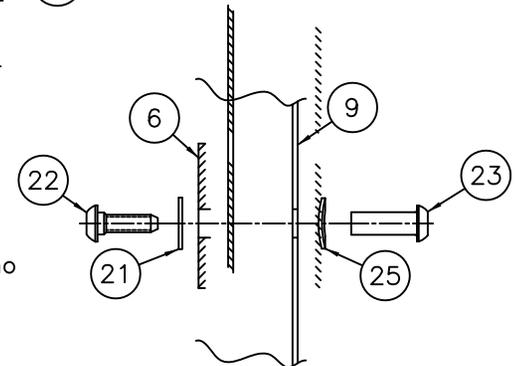
DETAIL 4
(loop to sno cone deck & kick plate attachment)



DETAIL 5
Typ 4 Places
(kick plate to upper & lower sno cone decks attachment)



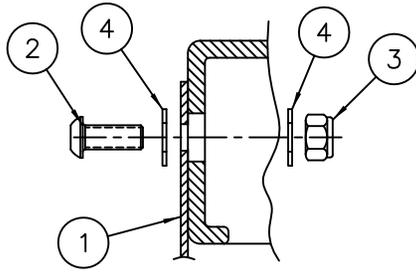
DETAIL 6
(support foot to lower sno cone deck attachment)



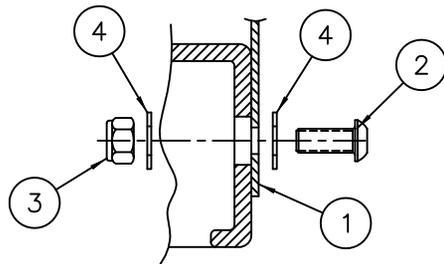
DETAIL 7
(kick plate to step support attachment)

Note: DO NOT over tighten bolts or damage may occur to the PVC coatings on components. Bolts have a thread lock patch. It is not necessary that the bolt extend into the nylon portion of the Nylock nut.

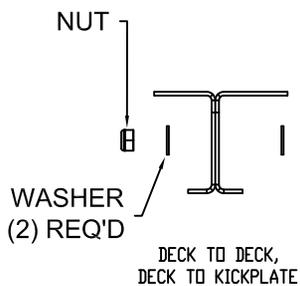
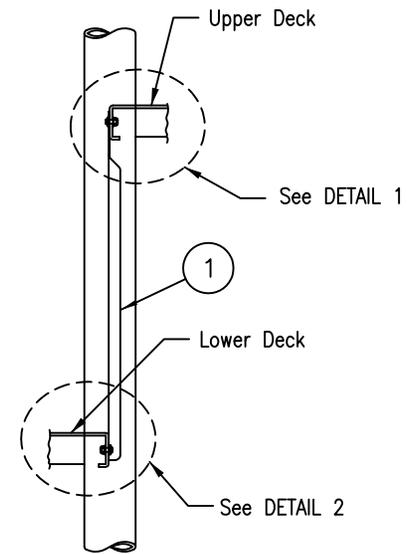
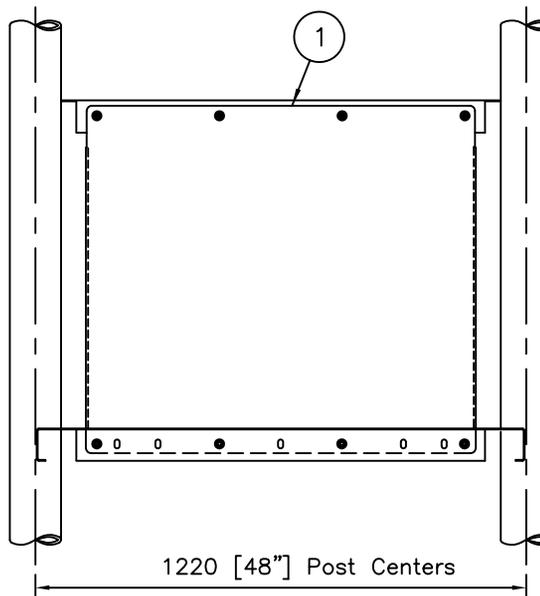
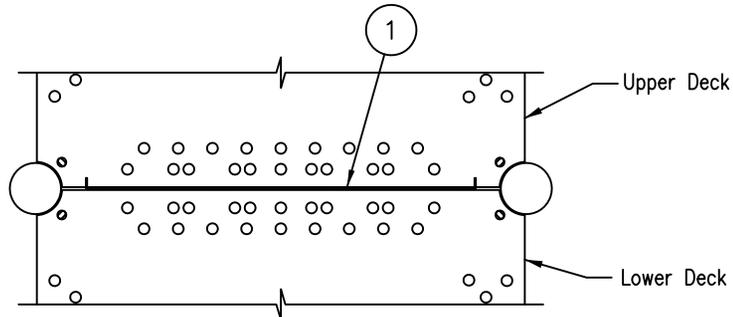
AUTHORIZED BY: 13JUN19
Matt Blisard



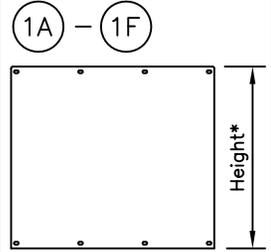
DETAIL 1
Type 4 Places



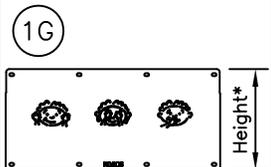
DETAIL 2
Type 4 Places



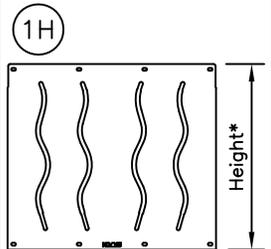
DO NOT OVERTIGHTEN BOLTS OR DAMAGE MAY OCCUR TO THE PVC COATING ON COMPONENTS. BOLTS HAVE A THREAD LOCK PATCH. IT IS NOT NECESSARY THAT THE BOLT EXTEND INTO THE NYLON PORTION OF THE NYLOCK NUT.



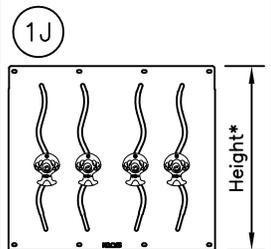
*Height will vary according to distance between decks



*Height will vary according to distance between decks



*Height will vary according to distance between decks



*Height will vary according to distance between decks



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

KB200001E

Sheet 2 of 2

AUTHORIZED BY: 13JUN19
Matt Blisard

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		
Item	Code	Description	Qty.
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	
HDWR BAG F/KB STEEL KICK PLATES (MM) 200007706			
2	200002018	SCREW MACH BUTTON HEAD M10 X 1.50 X 25mm	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

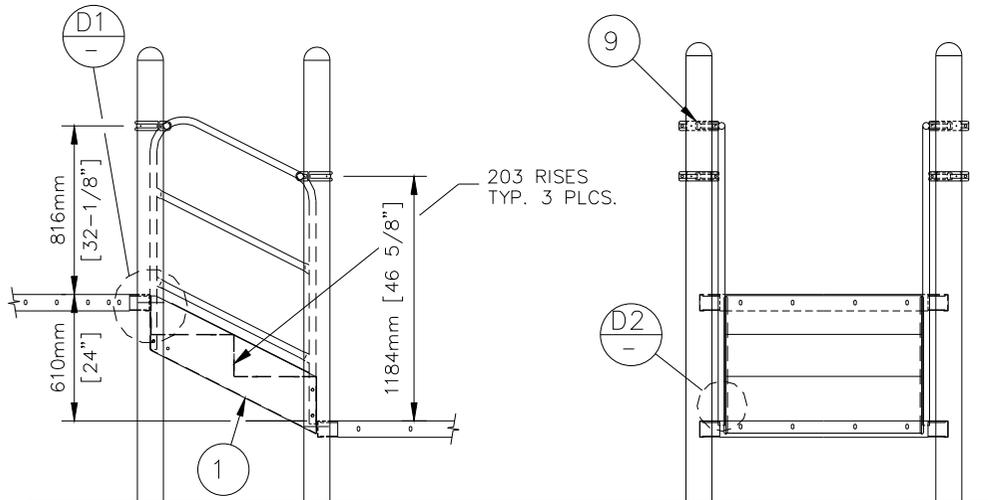
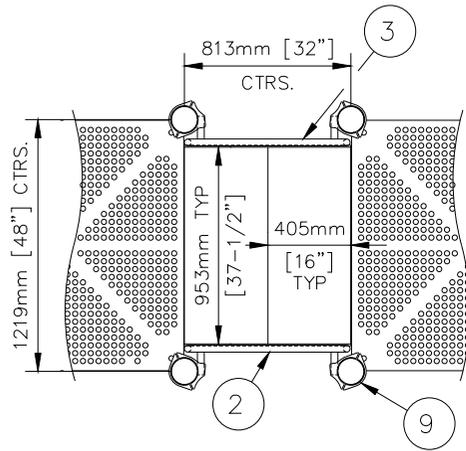
- Must be used between all 203mm [8"] and 305mm [12"] increment decks.
- When the lower platform exceeds 706mm [30"] and the upper platform is 228mm [9"] higher, a deck to deck plate must be used for 2-5 year age group.
- When the lower platform exceeds 1220mm [48"] and the upper platform is 228mm [9"]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

Installation Instructions

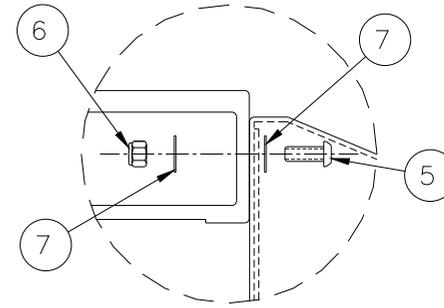
1. Install posts and decks. Make sure the decks are level and at the proper height.
2. Attach the top of the Deck to Deck Plate to the front of the upper deck. See DETAIL 1.
3. Attach the lower portion of the Deck to Deck Plate to the lower deck. See DETAIL 2.

AUTHORIZED BY:

Joe Pritchett 02JUN08

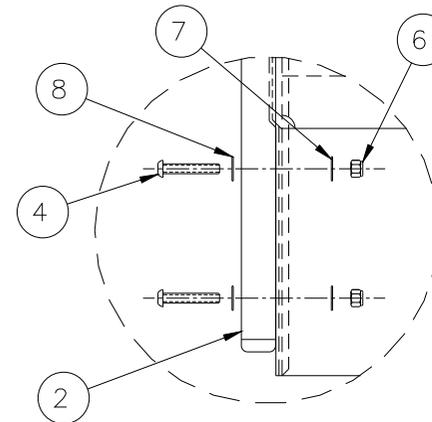


NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS



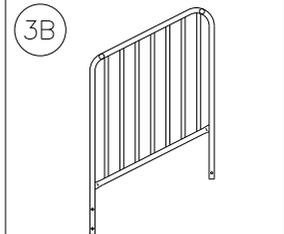
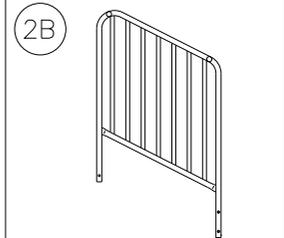
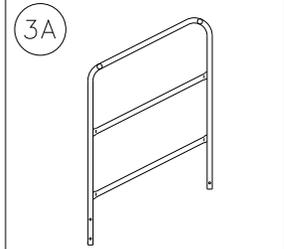
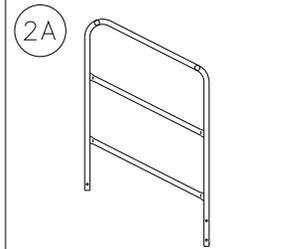
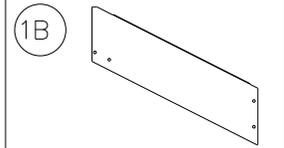
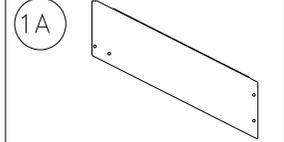
DETAIL D1
1: 5

STEP TO DECK
ATTACHMENT DETAIL
TYP. 4 PLCS.
BOTH ENDS



DETAIL D2
1: 5

RAIL TO DECK
ATTACHMENT DETAIL
TYP. 3 PLCS.
BOTH SIDES





610MM (24") DECK TO DECK STEPS W/RAILS

200125474
KB200009D-S2
Sheet 2 of 2

AUTHORIZED BY:
Joe Fitchett 02JUN08

STEPS DECK/DECK 610 MM W/GUARDRAILS F/KB
200125538

STEPS DK/DK 610MM GRD.RL. KB (SMALL HOLES)
200200400

STEPS DECK/DECK 610 MM W/SFTY RAILS F/KB
200125540

STEPS DK/DK 610MM SFTY RL.KB (SMALL HOLES)
200200401

Item	Code	Description	Qty.
1A	200125147	STEPS DECK TO DECK 610 (TDV) KB (2002)	1
1B	200146264	STEPS DK-TO-DK 610 KB (TDV) SMALL HOLE	
2A	200125335	GUARDRAIL LFT. KB 24" DK/DK TAN	1
2B	200125375	SAFETY RAIL LFT. KB 24" DK/DK TAN	
3A	200125333	GUARDRAIL RGT. KB 24" DK/DK TAN	1
3B	200125376	SAFETY RAIL RGT. KB 24" DK/DK TAN	
9	200006754	HOODED RAIL CLAMP TAN F/KB	4

HDWR BAG F/KB DECK-TO-DECK STEPS

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

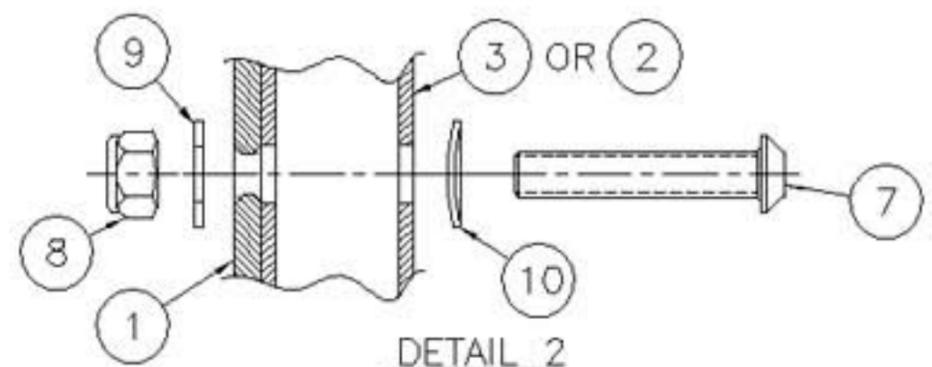
Application

- For use between two decks which are 610mm [24"] different in height.
- If the component includes guard rails and is predominantly used by 5-12 year olds, the upper deck must be 1220mm [48"] or less.
- If using guard rails and it will be predominantly used by 2-5 year olds, the upper deck must be 762mm [30"] or less.
- Safety Rails are acceptable in all applications.

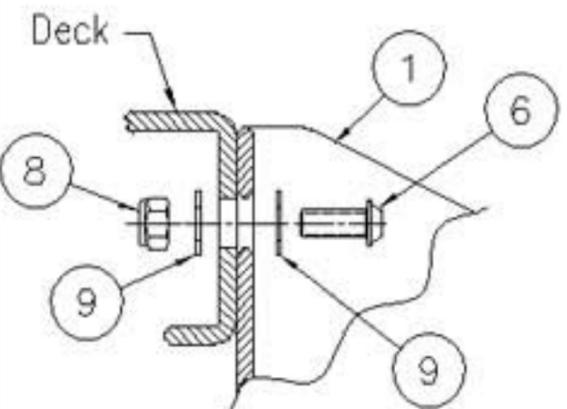
Installation Instructions

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.

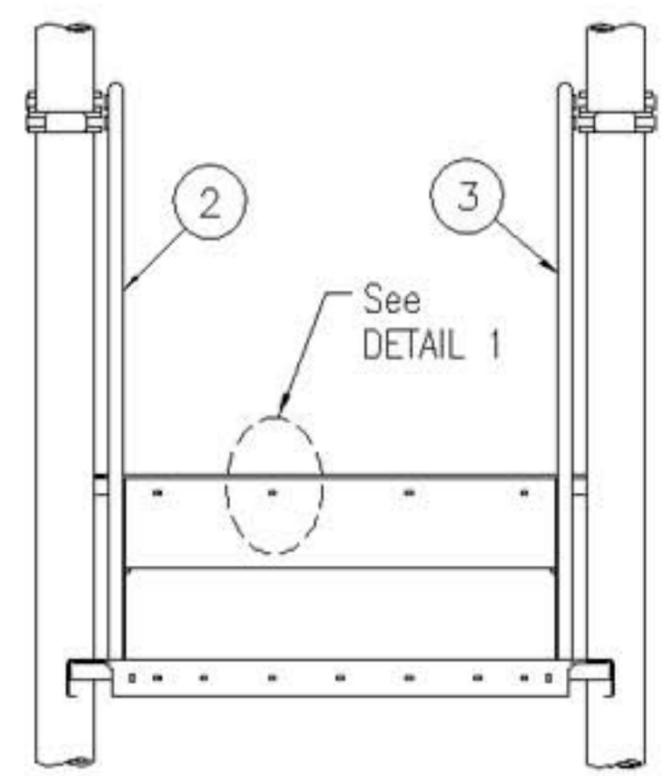
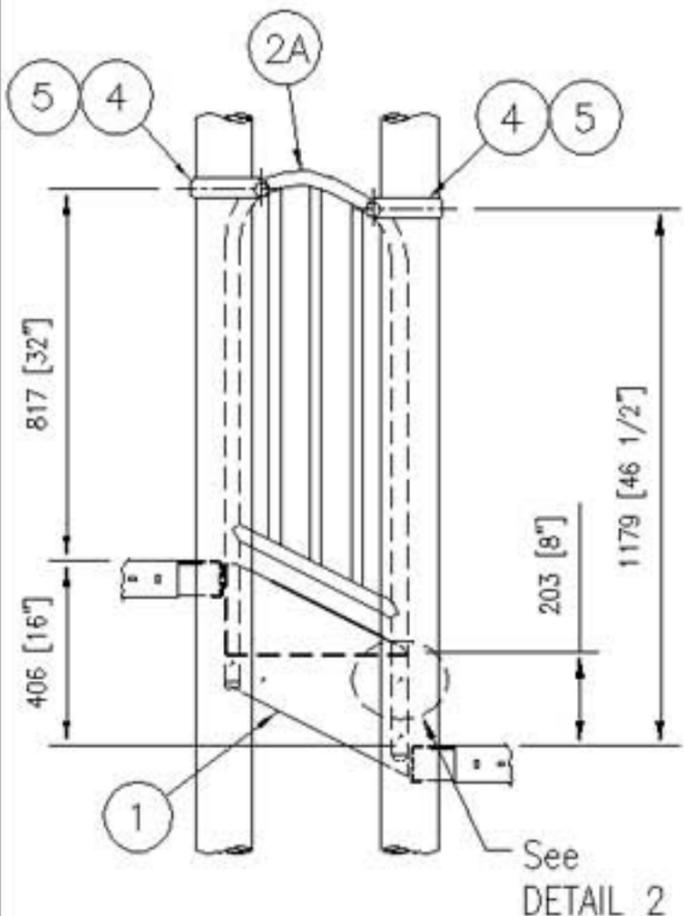
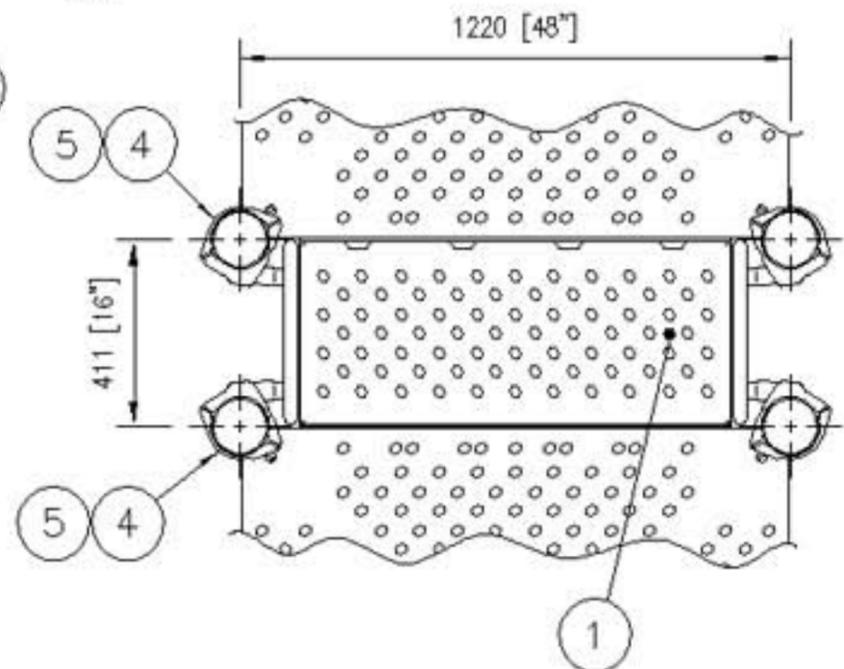
AUTHORIZED BY: 18MAR08
Eric L. Claudus



DETAIL 2
Typ 6 Places



DETAIL 1
Typ 8 Places



KB STEPS DK/DK 406MM W/SAFETY RAILS(LG) 200201306
KB STEPS DK/DK 406MM W/SFTY RL(SM.HOLE) 200201307

Item	Code	Description	Qty.
1A	-	STEPS DECK-TO-DECK 406 MM TDV -OR-	1
1B	-	STEPS DECK-TO-DECK 406 MM SM HOLE, TDV	1
2A	-	SAFETY RAIL LFT.KB 406 DK/DK.	1
3A	-	SAFETY RAIL RGT.KB 406 DK/DK.	1
4	-	HOODED RAIL CLAMP ASSEMBLY	4
5	200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	8

KB STEPS DK/DK 406MM W/GUARD RAILS 200201304
KB STEPS DK/DK 406MM W/GRD RL(SM.HOLE) 200201305

Item	Code	Description	Qty.
1A	-	STEPS DECK-TO-DECK 406 MM TDV -OR-	1
1B	-	STEPS DECK-TO-DECK 406 MM SM HOLE, TDV	1
2B	-	GUARD RAIL LFT.KB 406 DK/DK.	1
3B	-	GUARD RAIL RGT.KB 406 DK/DK.	1
4	-	HOODED RAIL CLAMP ASSEMBLY	4
5	200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	8

HDWR BAG F/KB 406MM DECK TO DECK STEPS
200041200

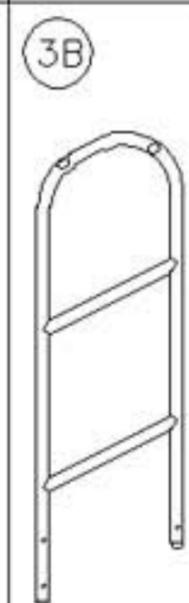
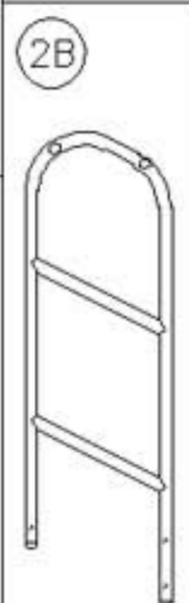
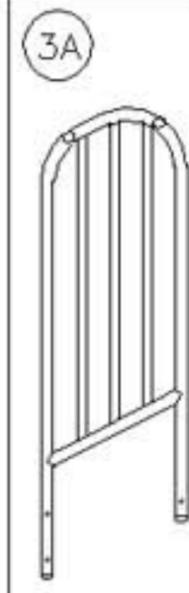
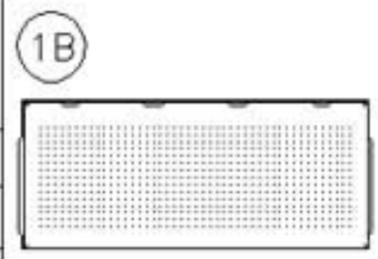
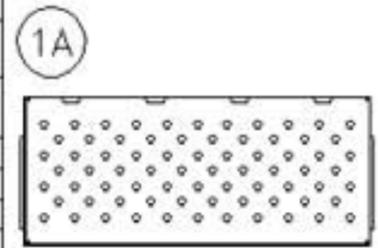
Item	Code	Description	Qty.
6	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	8
7	200002150	SCREW MACH BUTTONHEAD M10 X 1.5 X 55 MM	6
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	14
9	200002079	WASHER FLAT M11 23 X 12 X 1.6	22
10	200008483	WASHER BOWED M11 23.5 X 11.7 X 1.57 MM	6

Application

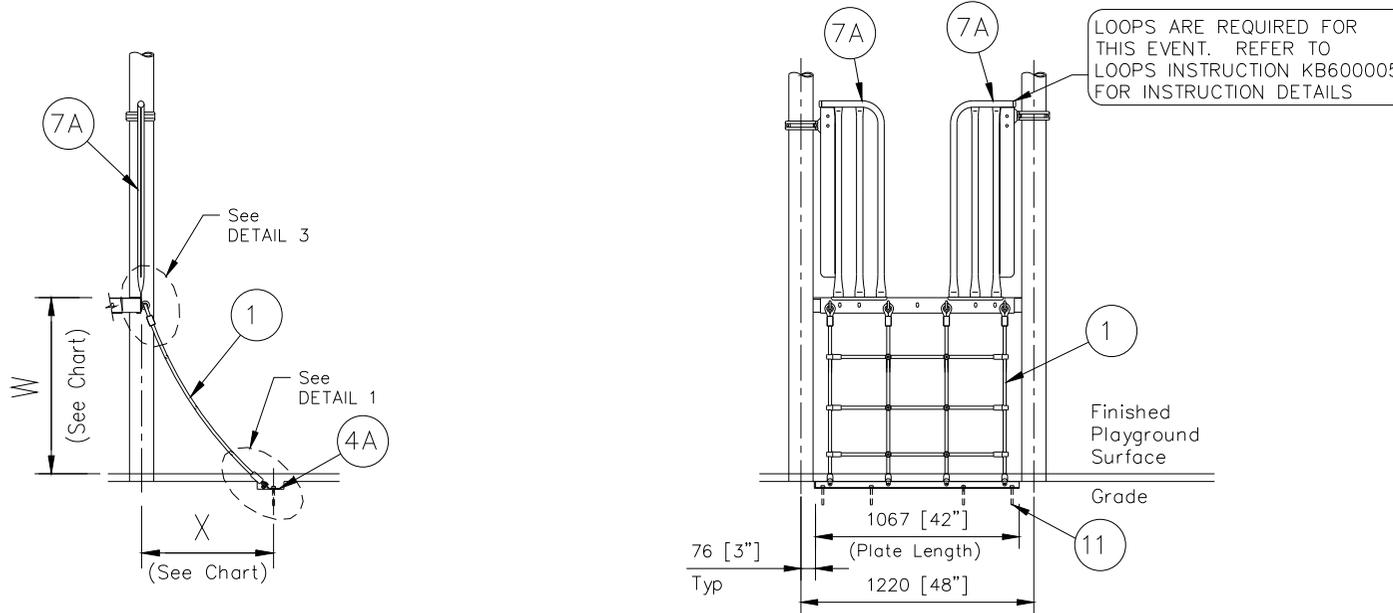
- For use between two decks which are 406mm [16"] different in height.
- If the component includes guard rails and is predominantly used by 5-12 year olds, the upper deck must be 1220mm [48"] or less.
- If using guard rails and it will be predominantly used by 2-5 year olds, the upper deck must be 762mm [30"] or less.
- Safety Rails are acceptable in all applications.

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.



Joe Pritchett



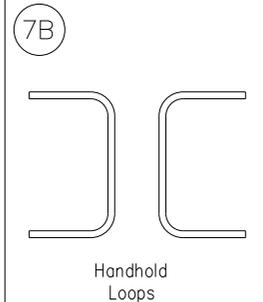
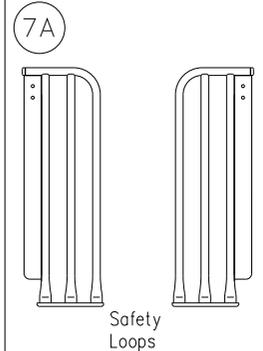
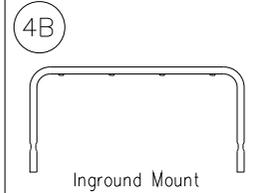
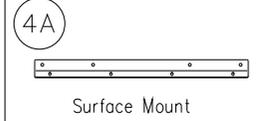
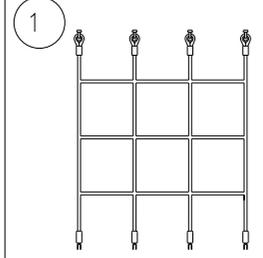
LOOPS ARE REQUIRED FOR THIS EVENT. REFER TO LOOPS INSTRUCTION KB600005 FOR INSTRUCTION DETAILS

Surface Mount, 40mm [1 1/2"] Ground Cover

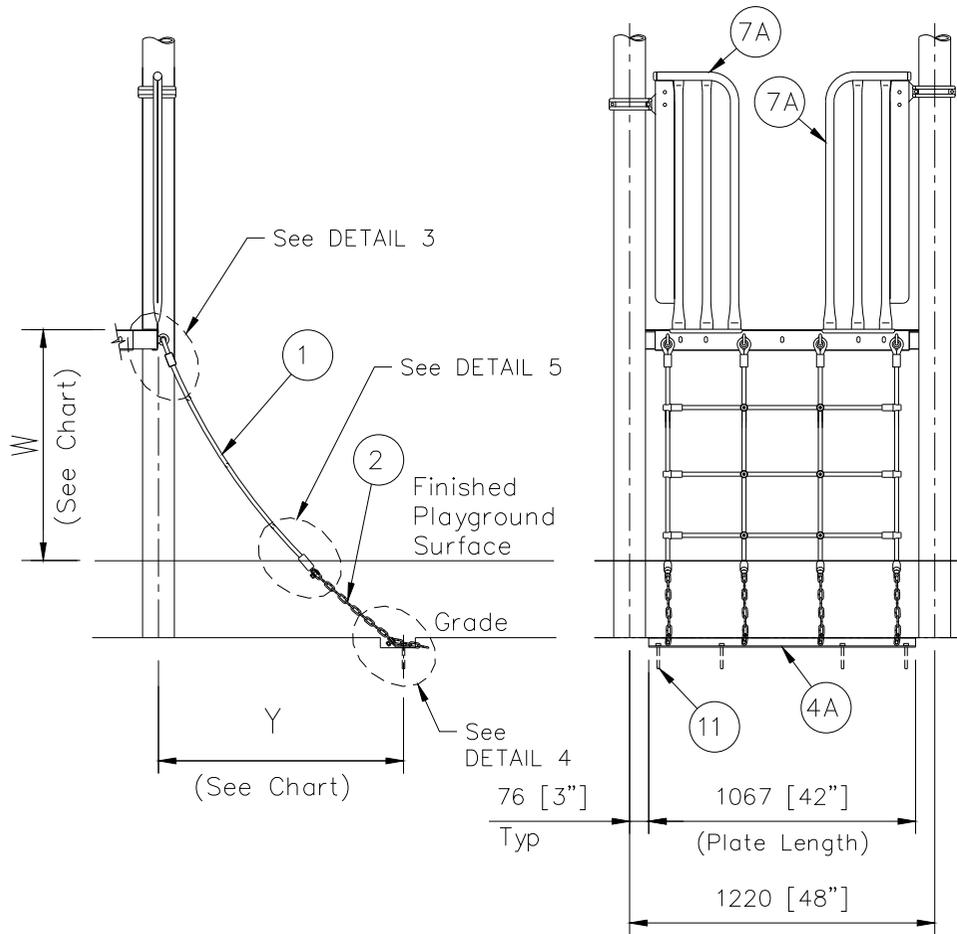
TABLE 1: FOOTING LOCATIONS

Deck Height W	Surface Mount X	Surface Mount Y (see Sheet 2)	Inground Mount Z (see Sheet 2)
915 [36"]	702 [27-5/8"]	976 [38-3/8"]	955 [37-3/5"]
1220 [48"]	1161 [45-1/2"]	1818 [71-1/2"]	1798 [70-3/4"]
1422 [56"]	858 [33-3/4"]	1344 [53"]	1327 [52-1/4"]
1625 [64"]	1303 [51-1/4"]	1756 [69-1/4"]	1740 [68-1/2"]
1830 [72"]	955 [37-1/2"]	1269 [50"]	1230 [48-1/2"]

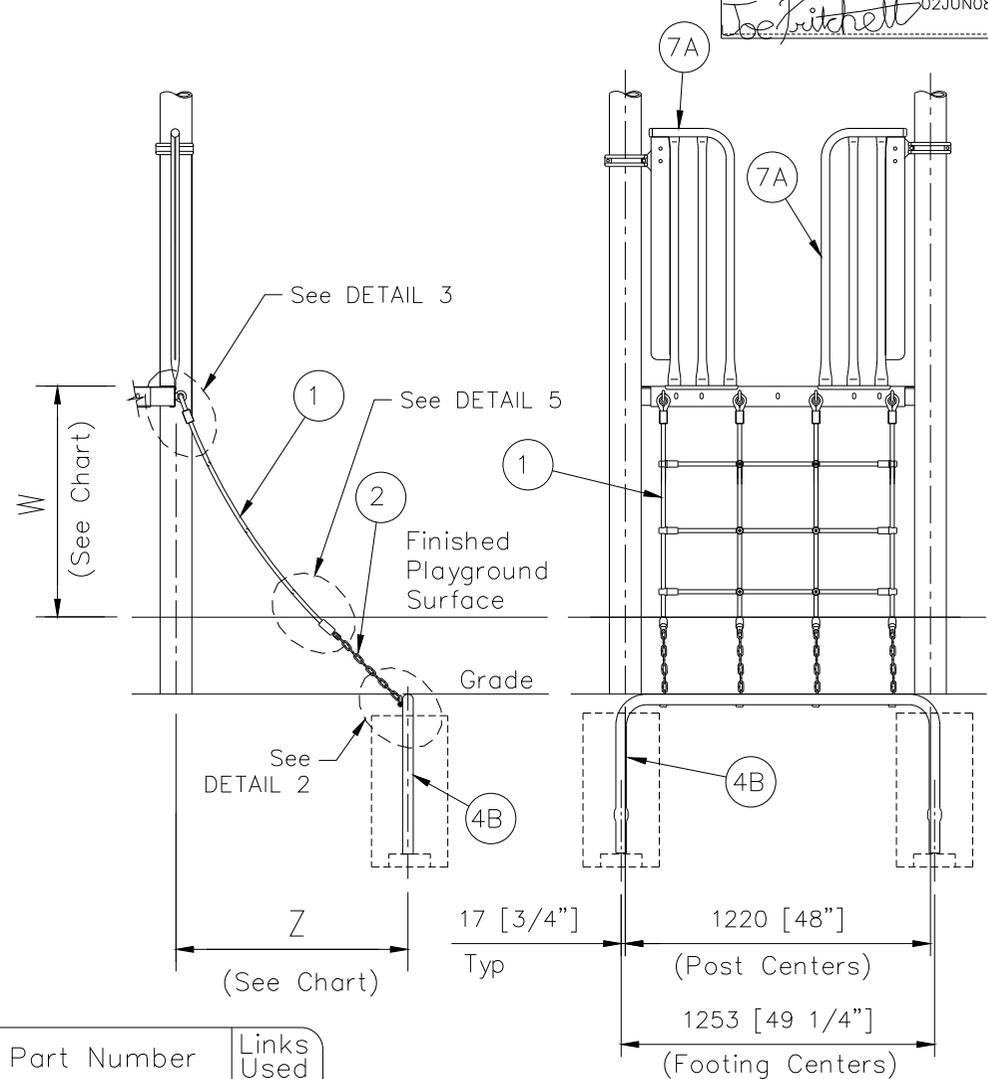
NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS



AUTHORIZED BY:
Joe Pittrell 02JUN08



Surface Mount, 305mm [12"] Ground Cover

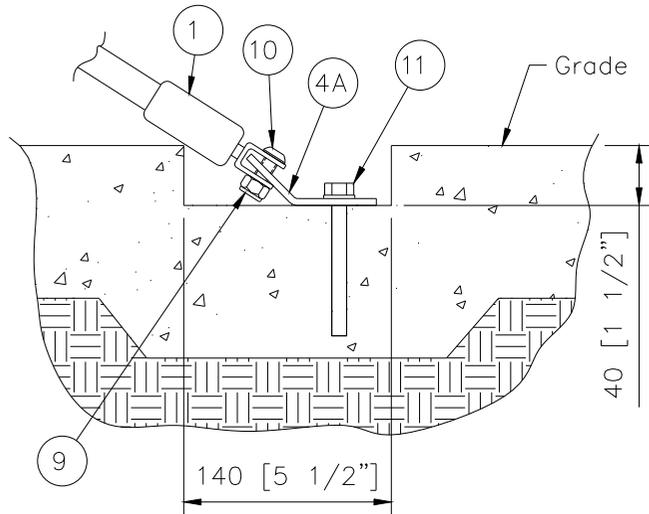


Inground Mount

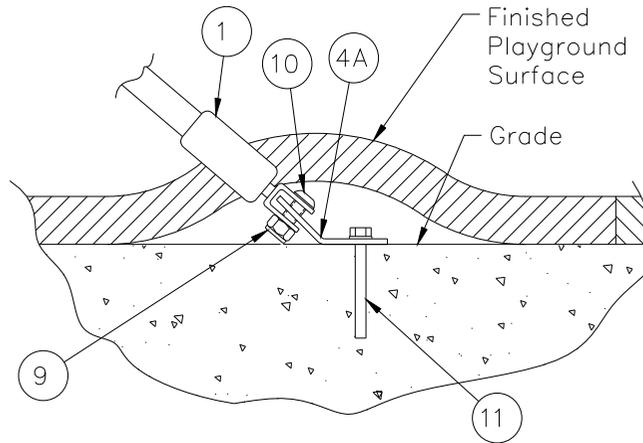
Deck Height W	Chain Part Number	Links Used
915 [36"]	200140295 (11 Links)	11
1220 [48"]	200140296 (21 Links)	21
1422 [56"]	200140296 (21 Links)	17
1625 [64"]	200140298 (16 Links)	16
1830 [72"]	200140298 (16 Links)	12

TABLE 2: CHAIN USAGE FOR 305mm [12"] GROUND COVER

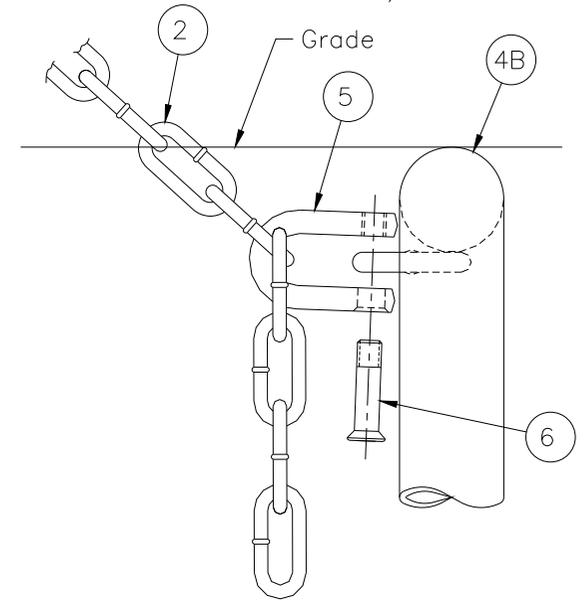
AUTHORIZED BY:
Joe Pritchett
02JUN08



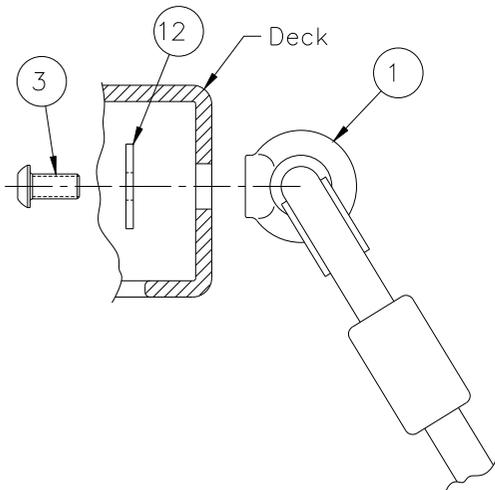
DETAIL 1 (OPTION A)
(Surface Mount-Surfacing)
Typ 4 Places



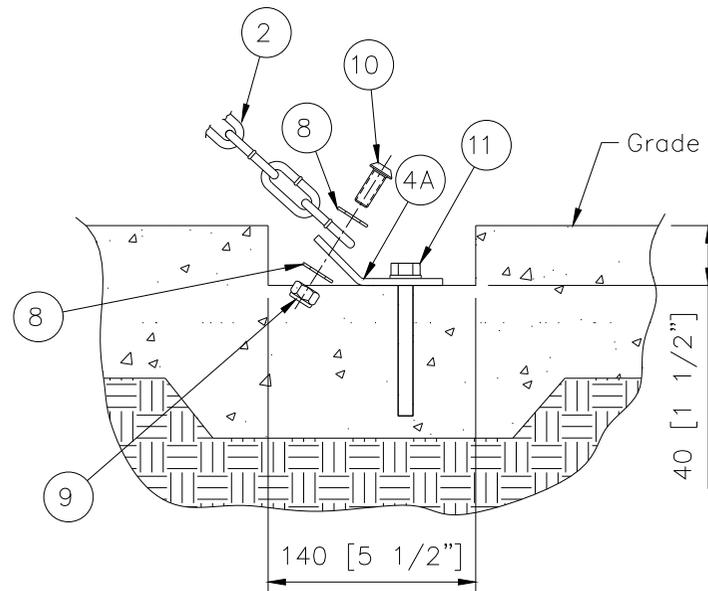
DETAIL 1 (OPTION B)
(Surface Mount-Surfacing)
Typ 4 Places



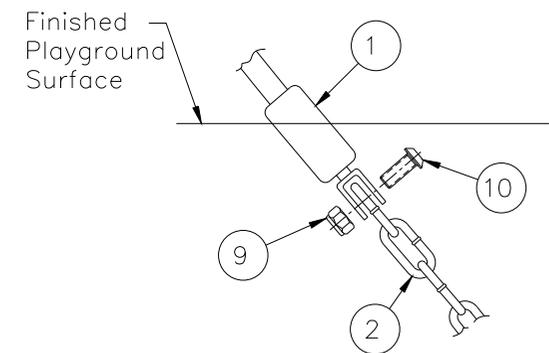
DETAIL 2
(Inground Mount)
Typ 4 Places



DETAIL 3
Typ 4 Places



DETAIL 4
(Surface Mount-Loose Fill)
Typ 4 Places



DETAIL 5
Typ 4 Places



CLIMBING NETS

200002640

KB300021D-S4

Sheet 4 of 4

CLIMBING NET 915mm [36"] RED/BLU W/SAFE LOOPS
200200020

CLIMBING NET 915mm [36"] TAN/GRN W/SAFE LOOPS
200200021

CLIMBING NET 1220mm [48"] RED/BLU W/SAFE LOOPS
200200024

CLIMBING NET 1220mm [48"] TAN/GRN W/SAFE LOOPS
200200025

CLIMBING NET 1625mm [64"] RED/BLU W/SAFE LOOPS
200200028

CLIMBING NET 1625mm [64"] TAN/GRN W/SAFE LOOPS
200200029

CLIMBING NET 915mm [36"] RED/BLU W/HAND LOOPS
200200022

CLIMBING NET 915mm [36"] TAN/GRN W/HAND LOOPS
200200023

CLIMBING NET 1220mm [48"] RED/BLU W/HAND LOOPS
200200026

CLIMBING NET 1220mm [48"] TAN/GRN W/HAND LOOPS
200200027

Application

Cannot be used as sole access

AUTHORIZED BY: 04JUN08
Joe Pritchett

Surface mount version for deck heights between 915mm [36"] and 1829mm [72"]

Inground mount version for deck heights between 915mm [36"] and 1829mm [72"]

Never install a climber without loops

ASTM requires all hardware to be below ground surfacing

Any installation over 1422mm [56"] must have safety loops

Installation Instructions

1. Prepare footings. Consult TABLE 1 for footing locations for your particular deck height.

2. Install Loops. See Hand/Safety loops instructions KB600005 for details.

3. Attach the bottom of the net to the anchoring device as shown in DETAIL 1 (Option A or B) for surface mount, and DETAIL 2 for inground mount. Installations requiring 305mm [12"] ground cover will require the use of a chain (see DETAILS 4 & 5). Consult TABLE 2 for chain usage. Some deck heights will not use 4 links of the chain supplied (see DETAIL 2).

4. Attach the top of the net to the deck edge as shown in DETAIL 3.

5. For surface mount, attach anchor plate to concrete using anchor bolts; for inground mount install tube using the standard inground footing (refer to footing instruction in front of manual). Consult the chart at left for footing locations for your particular deck height. Make sure the anchoring device is installed below grade (Option A), will be covered with ground surfacing (Option B), or that the tube is completely covered with surfacing.

6. Install resilient ground surfacing around climber. Surfacing shall extend in all directions at least 1830mm [72"] from the point at which the climber enters the surfacing.

Item	Code	Description	*Qty.	Item	Code	Description	*Qty.
1	-	NET F/ROPE CLIMBER	1	1	-	NET F/ROPE CLIMBER	1
2	-	CHAIN F/ROPE CLIMBER (40mm GROUND COVER ONLY)	4	2	-	CHAIN F/ROPE CLIMBER (40mm GROUND COVER ONLY)	4
3	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM	4	3	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM	4
4A	200009458	PLATE GROUND F/KK CHAIN NET 40MM	1	4A	200009458	PLATE GROUND F/KK CHAIN NET 40MM	1
4B	200001714**	BAR GROUND BRN F/KB CHAIN NET CLIMBER		4B	200001714**	BAR GROUND BRN F/KB CHAIN NET CLIMBER	
5	200015170**	SHACKLE "D" STYLE 300 S.S.	4	5	200015170**	SHACKLE "D" STYLE 300 S.S.	4
6	200016225**	BOLT M10 X 1.5 300 SS 6-LOBE F/D SHACKLE	4	6	200016225**	BOLT M10 X 1.5 300 SS 6-LOBE F/D SHACKLE	4
7A	-	SAFETY LOOP ASSY F/KB WITH 2 WING CLAMPS	1	7B	-	HANDHOLD LOOP ASSY F/KB WITH 4 RAIL CLAMPS	1
9	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	2	9	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	2
10	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	2	10	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	2
11	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100 MM	4	11	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100 MM	4

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

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

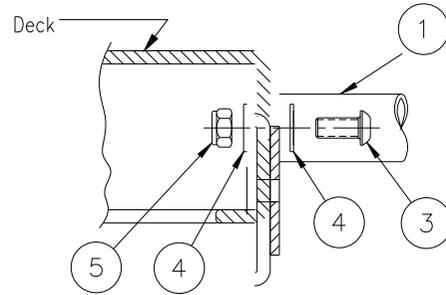
Item	Code	Description	*Qty.	Item	Code	Description	*Qty.
8	200002079	WASHER FLAT M11 23 O.D. X 12 I.D. X 1.6 MM	8	8	200002079	WASHER FLAT M11 23 O.D. X 12 I.D. X 1.6 MM	8
9	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	6	9	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	6
10	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	6	10	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	6
12	200002096	WASHER FLAT M10 34 OD x 11 ID x 3 MM THK	4	12	200002096	WASHER FLAT M10 34 OD x 11 ID x 3 MM THK	4

* QUANTITIES WILL VARY BASED ON GROUND COVER OPTION
** INGROUND MOUNT ONLY

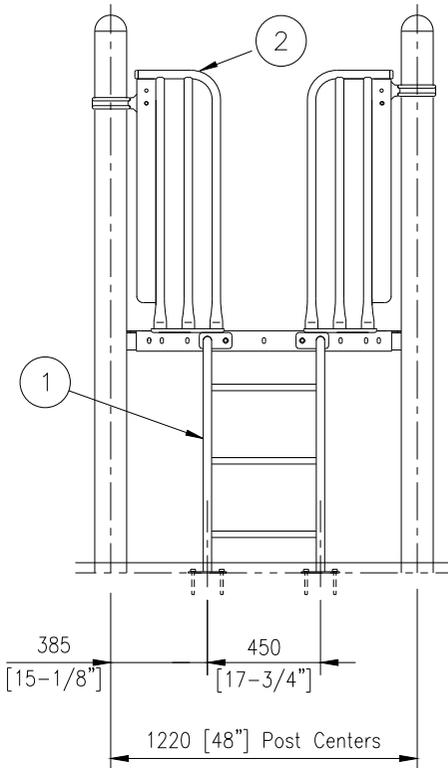
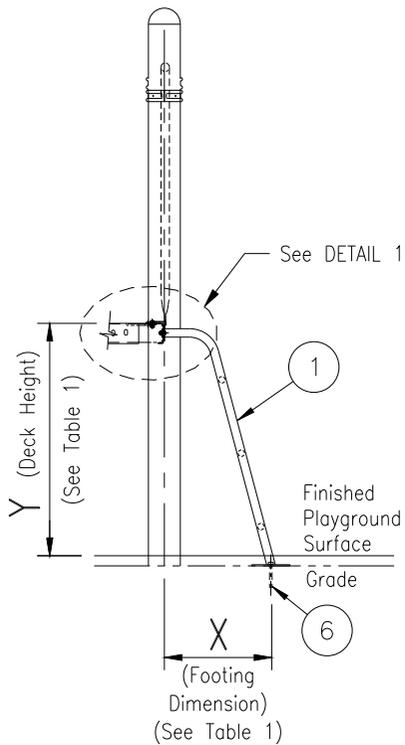
TABLE 1

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

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

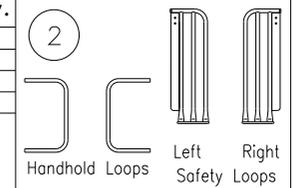
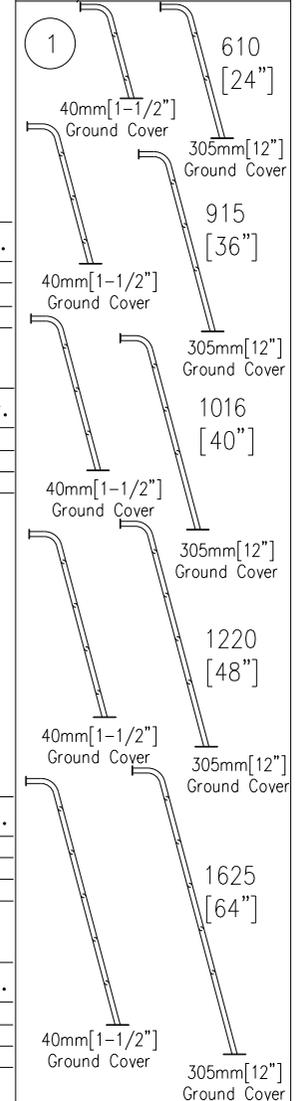
Item	Code	Description	Qty.
1	-	RUNG LADDER	1
2	-	SAFETY LOOP ASSY F/KB W/2 WING CLAMPS	1
6	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100MM	4

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

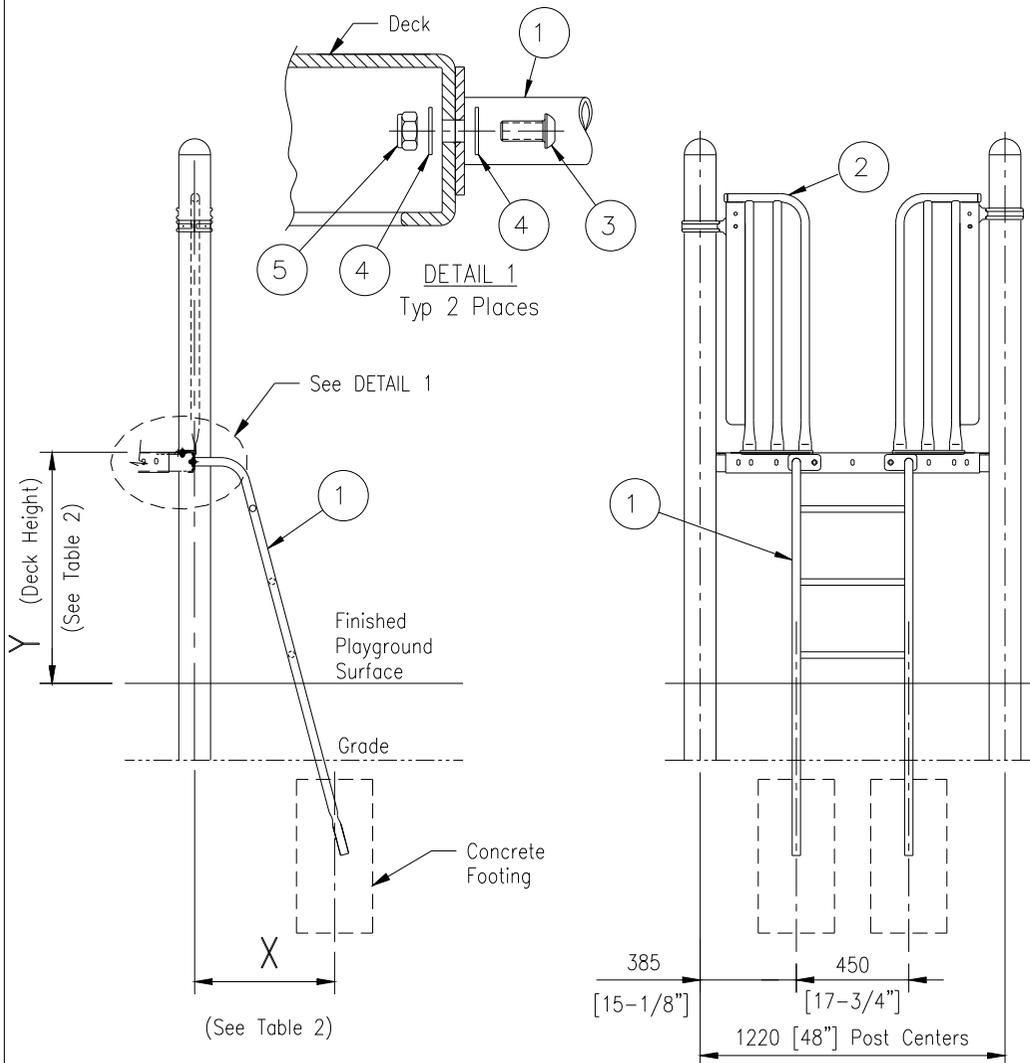
Item	Code	Description	Qty.
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	2
4	200002079	WASHER FLAT M11 23 X 12 X 1.6	4
5	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	2

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"	"X"
Deck Height	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

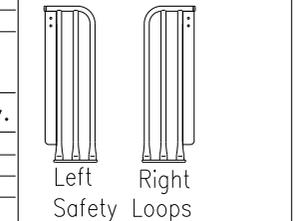
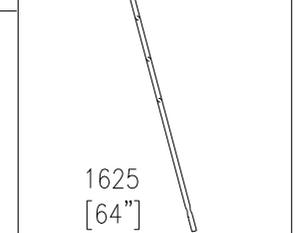
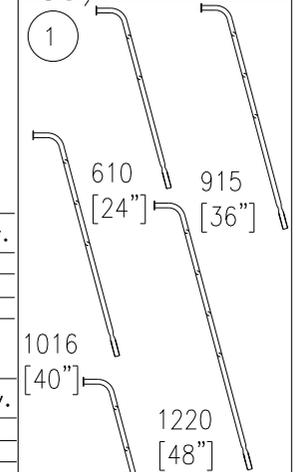
Item	Code	Description	Qty.
1	-	RUNG LADDER	1
2	-	SAFETY LOOP ASSY F/KB W/2 WING CLAMPS	1
6	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100MM	4

HWDR BAG F/KB 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

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



KB Trail Climber

IMPORTANT! Prior to installation of any components refer to the front of the **Manufacturer's Assembly** manual and applicable safety guidelines and/or standards. The *Manufacturer's Assembly Manual* will provide important tips pertaining to **site requirements, footings, hardware** and other necessary information **vital to the success of your installation.**

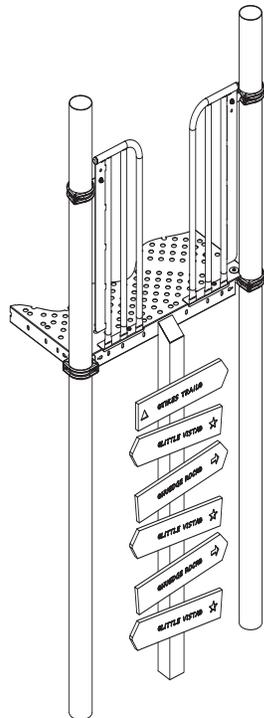
Models included in this installation guide:

<u>MODEL</u>	<u>DESCRIPTION</u>	<u>PAGE</u>
200203460	KB Trail Climber 72"	2, 6
200203459	KB Trail Climber 64"	2, 6
200203458	KB Trail Climber 56"	3, 6
200203457	KB Trail Climber 48"	3, 6
200203537	KB Trail Climber 72" CSA	4, 6
200203536	KB Trail Climber 64" CSA	4, 6
200203535	KB Trail Climber 56" CSA	5, 6
200203534	KB Trail Climber 48" CSA	5, 6

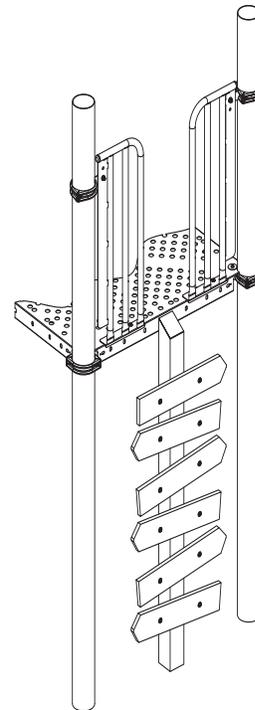
Note:

- Deck system and posts are not included in this assembly.
- An (*) by part numbers (CODE) indicate: Color Code Required.

KB Trail Climber - w/wording



KB Trail Climber CSA - w/out wording



Note: Deck height varies per model.

KB Trail Climber

<i>200203460 KB TRAIL CLIMBER 72"</i>		
CODE	DESCRIPTION	QTY
902878DBW	TRAIL CLIMBER POST ASSY, 72" SM	1
902877DBW	TRAIL CLIMBER POST ASSY, 72" 305SM	
902879DBW	TRAIL CLIMBER POST ASSY, 72" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
903054	TRAIL CLIMBER SIGN, TRIANGLE	1
903055	TRAIL CLIMBER SIGN, STAR	3
903053	TRAIL CLIMBER SIGN, ARROW	2
925165	WOOD SIGN KIT F/72" TRAIL CLIMBER	1
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

<i>200203459 KB TRAIL CLIMBER 64"</i>		
CODE	DESCRIPTION	QTY
902881DBW	TRAIL CLIMBER POST ASSY, 64" SM	1
902880DBW	TRAIL CLIMBER POST ASSY, 64" 305SM	
902882DBW	TRAIL CLIMBER POST ASSY, 64" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
903054	TRAIL CLIMBER SIGN, TRIANGLE	1
903055	TRAIL CLIMBER SIGN, STAR	2
903053	TRAIL CLIMBER SIGN, ARROW	2
925614	WOOD SIGN KIT F/64"/56"TRAIL CLIMBER	1
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

KB Trail Climber

<i>200203458 KB TRAIL CLIMBER 56"</i>		
CODE	DESCRIPTION	QTY
902884DBW	TRAIL CLIMBER POST ASSY, 56" SM	1
902883DBW	TRAIL CLIMBER POST ASSY, 56" 305SM	
902885DBW	TRAIL CLIMBER POST ASSY, 56" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
903054	TRAIL CLIMBER SIGN, TRIANGLE	1
903055	TRAIL CLIMBER SIGN, STAR	2
903053	TRAIL CLIMBER SIGN, ARROW	2
925164	WOOD SIGN KIT F/64"/56"TRAIL CLIMBER	1
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

<i>200203457 KB TRAIL CLIMBER 48"</i>		
CODE	DESCRIPTION	QTY
902887DBW	TRAIL CLIMBER POST ASSY, 56" SM	1
902886DBW	TRAIL CLIMBER POST ASSY, 56" 305SM	
902888DBW	TRAIL CLIMBER POST ASSY, 56" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
903054	TRAIL CLIMBER SIGN, TRIANGLE	1
903055	TRAIL CLIMBER SIGN, STAR	2
903053	TRAIL CLIMBER SIGN, ARROW	1
925163	WOOD SIGN KIT F/48" TRAIL CLIMBER	1
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

KB Trail Climber

KB300442

KB Trail Climber

<i>200203537 KB TRAIL CLIMBER 72" CSA</i>		
CODE	DESCRIPTION	QTY
902878DBW	TRAIL CLIMBER POST ASSY, 72" SM	1
902877DBW	TRAIL CLIMBER POST ASSY, 72" 305SM	
902879DBW	TRAIL CLIMBER POST ASSY, 72" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
925159	TRAIL CLIMBER SIGN, W/O TEXT	6
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

<i>200203536 KB TRAIL CLIMBER 64" CSA</i>		
CODE	DESCRIPTION	QTY
902881DBW	TRAIL CLIMBER POST ASSY, 64" SM	1
902880DBW	TRAIL CLIMBER POST ASSY, 64" 305SM	
902882DBW	TRAIL CLIMBER POST ASSY, 64" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
925159	TRAIL CLIMBER SIGN, W/O TEXT	5
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

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KB Trail Climber

<i>200203535 KB TRAIL CLIMBER 56" CSA</i>		
CODE	DESCRIPTION	QTY
902884DBW	TRAIL CLIMBER POST ASSY, 64" SM	1
902883DBW	TRAIL CLIMBER POST ASSY, 64" 305SM	
902885DBW	TRAIL CLIMBER POST ASSY, 64" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
925159	TRAIL CLIMBER SIGN, W/O TEXT	5
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

<i>200203534 KB TRAIL CLIMBER 48" CSA</i>		
CODE	DESCRIPTION	QTY
902887DBW	TRAIL CLIMBER POST ASSY, 64" SM	1
902886DBW	TRAIL CLIMBER POST ASSY, 64" 305SM	
902888DBW	TRAIL CLIMBER POST ASSY, 64" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
925159	TRAIL CLIMBER SIGN, W/O TEXT	4
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

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KB Trail Climber

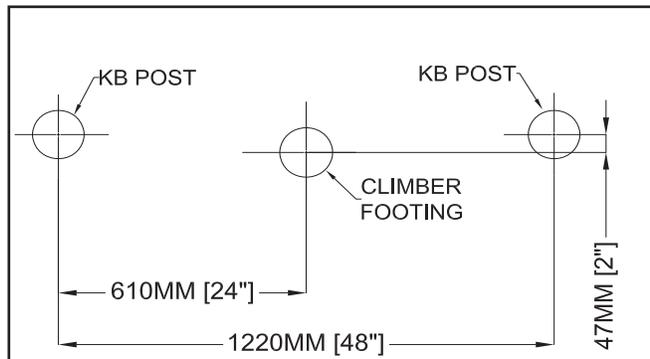
KB300442

KB Trail Climber

Note: Hardware packages are used for all eight (8) KB Trail Climbers w/words and w/o words.

HRDW PKG F/2SETS O/CLAMPS S1/1 HW2CLMPSET-1		
CODE	DESCRIPTION	QTY
200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	4
200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	4
200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	4
HRDW PKG KB TRAIL CLIMBER S1/2 HW906362-1		
CODE	DESCRIPTION	QTY
200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	6
200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM	1
200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	6
200002079	WASHER FLAT M11 23 X 12 X 1.6MM	9
200002096	WASHER FLAT M10 34 OD X 11 ID X 3MM SS	4
HRDW PKG KB TRAIL CLIMBER L2/2 HW906362-2		
CODE	DESCRIPTION	QTY
104286	BOLT 3/8-16 X 1 BHCS 6 LOBE 18-8 SS	12
110162	NUT 3/8-16 X 1 BARREL LENGTH, BUTTON HEAD	12
117005	WASHER 3/8 X 1 O.D. FLAT 18-8 SS	12
104480	BIT 6 LOBE T-45 FOR 3/8 BOLTS	1
104481	BIT 6 LOBE T-55 FOR 1/2 BOLTS	1

Footing Layout - for both KB Trail Climber w/words and w/o words.



KB Trail Climber

STEP 1 DECK AND POST FOOTINGS

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

1b. Deck Height Options:

- 1830MM [72"]
- 1625MM [64"]
- 1422MM [56"]
- 1220MM [48"]

Note: Deck Height Options are the same for KB Trail Climber CSA.

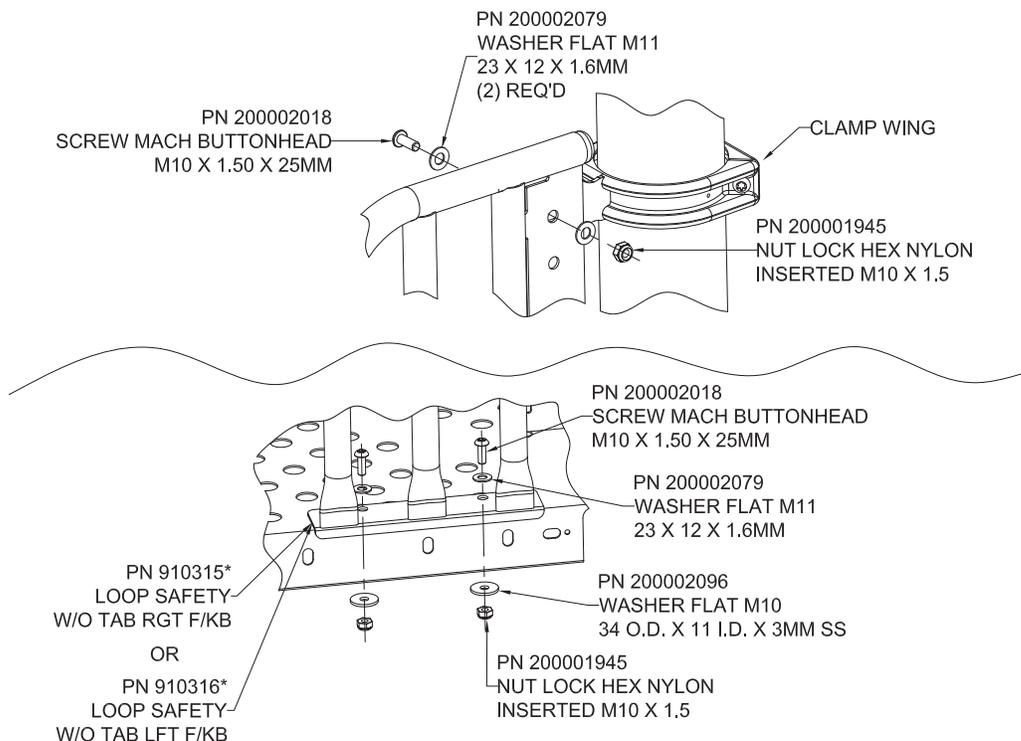
STEP 2 ASSEMBLE WING CLAMPS

2a. *Loosely* assemble wing clamps on posts per clamp installation details in the installation manual .

STEP 3 ATTACH SAFETY LOOPS TO DECK

3a. *Loosely* attach safety loops to deck and to wing clamps/post as shown below.

3b. Install wing clamp tabs on deck side of safety loop.



KB Trail Climber

KB300442

KB Trail Climber

STEP 4 ATTACH BOARDS WITH INSERTS

4a. Attach boards with inserts to the climber post as shown.

Note: See Figures 1, 2, 3 and 4 for surface mount and inground climber posts.

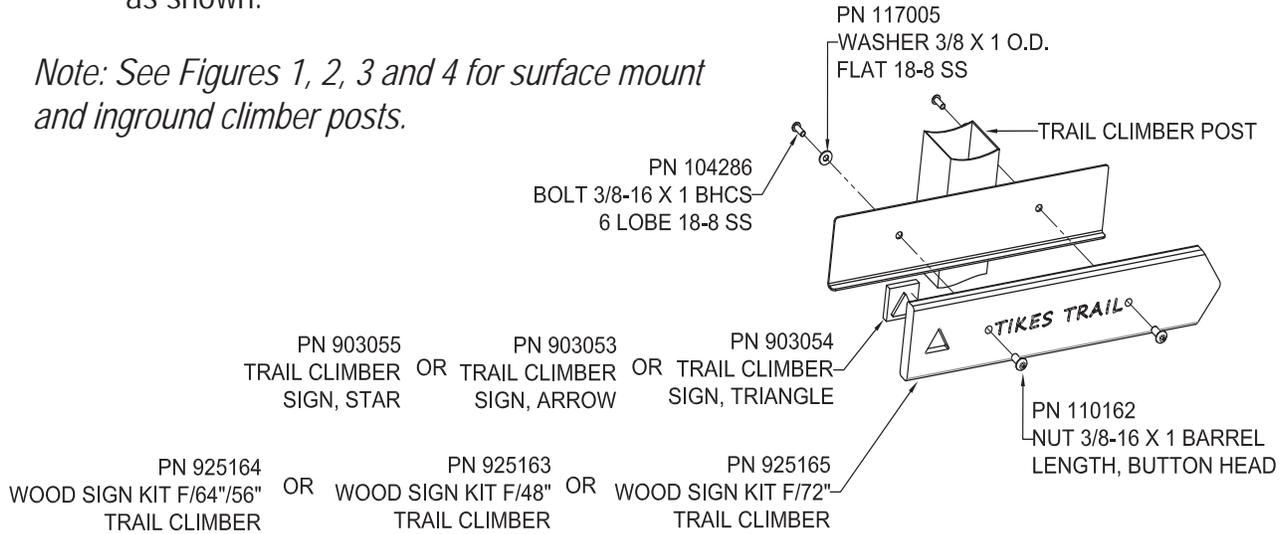


Figure 1. 1830MM [72"]

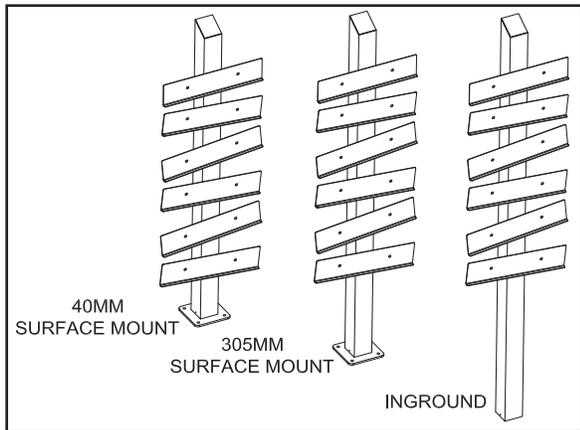


Figure 2. 1625MM [64"]

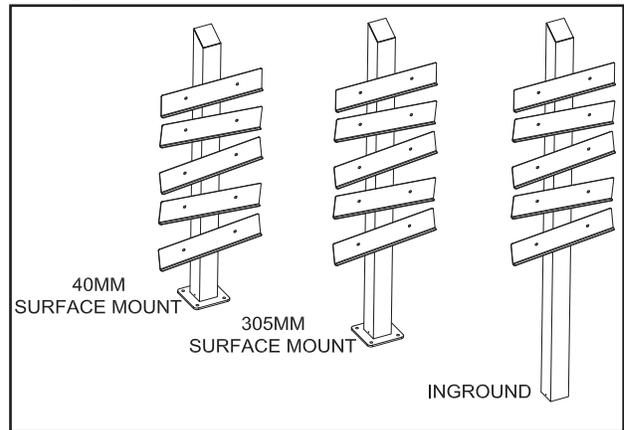


Figure 3. 1422MM [56"]

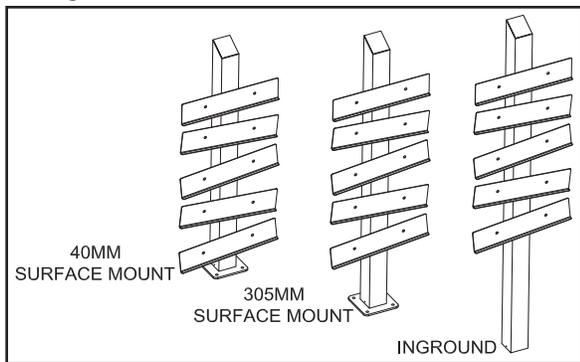
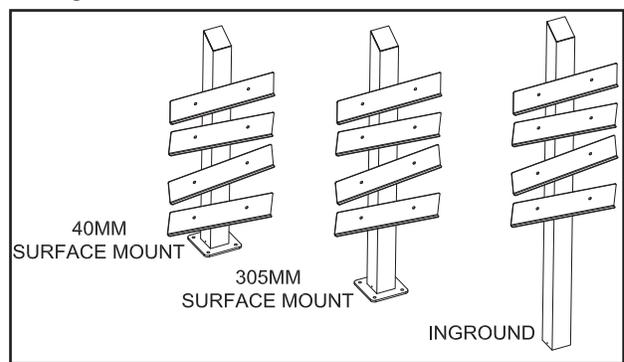


Figure 4. 1220MM [48"]



KB Trail Climber

STEP 4 ATTACH BOARDS WITH INSERTS cont.

4b. Follow the insert locations, as shown below, for each climber post height.

Note: See Figures 5, 6, 7 and 8 for insert locations.

Figure 5. 1830MM [72"]

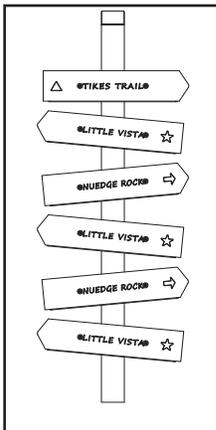


Figure 6. 1625MM [64"]

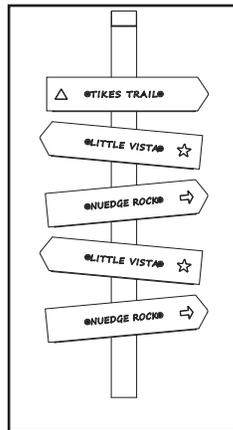


Figure 7. 1422MM [56"]

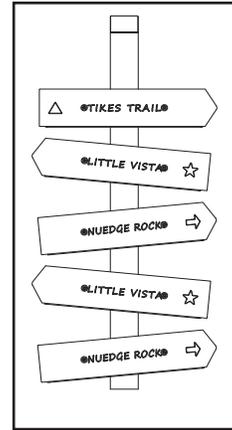
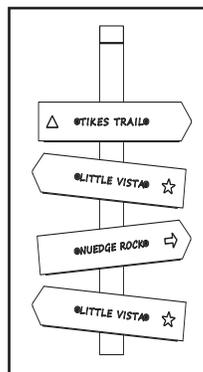


Figure 8. 1220MM [48"]



KB Trail Climber

STEP 5 ATTACH BOARDS W/OUT INSERTS/WORDING FOR CSA MODELS

5a. Attach boards to the climber post as shown below.

Note: See Figures 9, 10, 11 and 12 for board placement. Refer to Figures 1, 2, 3 and 4 for surface mount and inground climber posts.

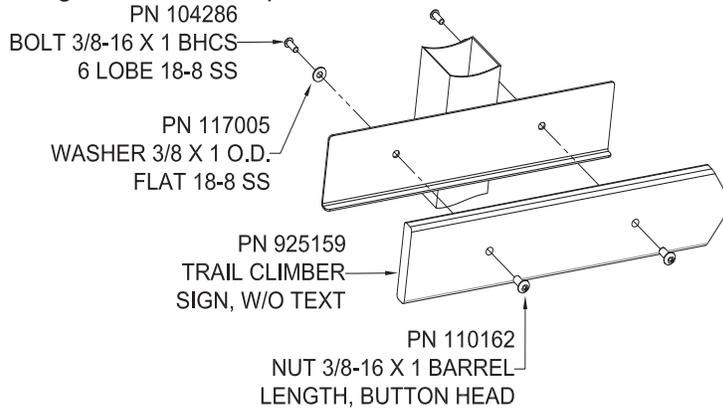


Figure 9. 1830MM [72"]

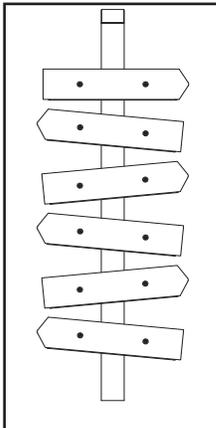


Figure 10. 1625MM [64"]

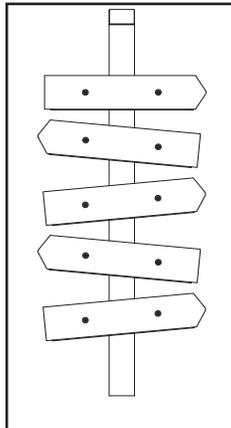


Figure 11. 1422MM [56"]

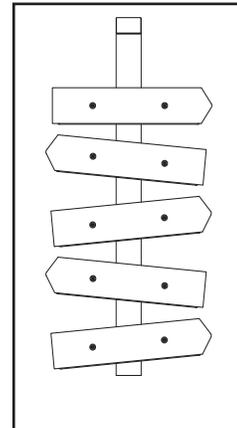
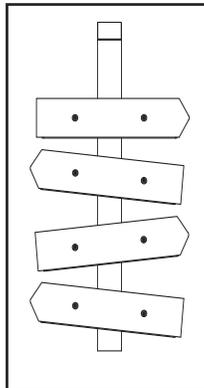


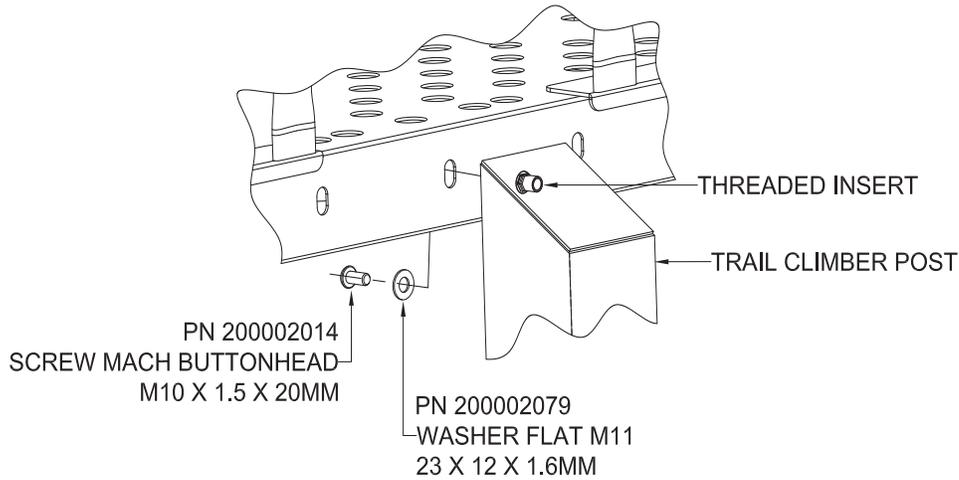
Figure 12. 1220MM [48"]



KB Trail Climber

STEP 6 ATTACH POST CLIMBER TO DECK

6a. Attach the post climber to the deck face as shown below.



6b. Tighten all hardware and install clamp drive pins.

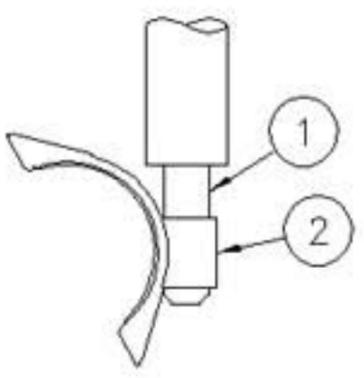
FINAL STEP

Proceed with *Final Assembly installation*.

LADDER RING CHALLENGE F/KB 2440 [96"]
200034344

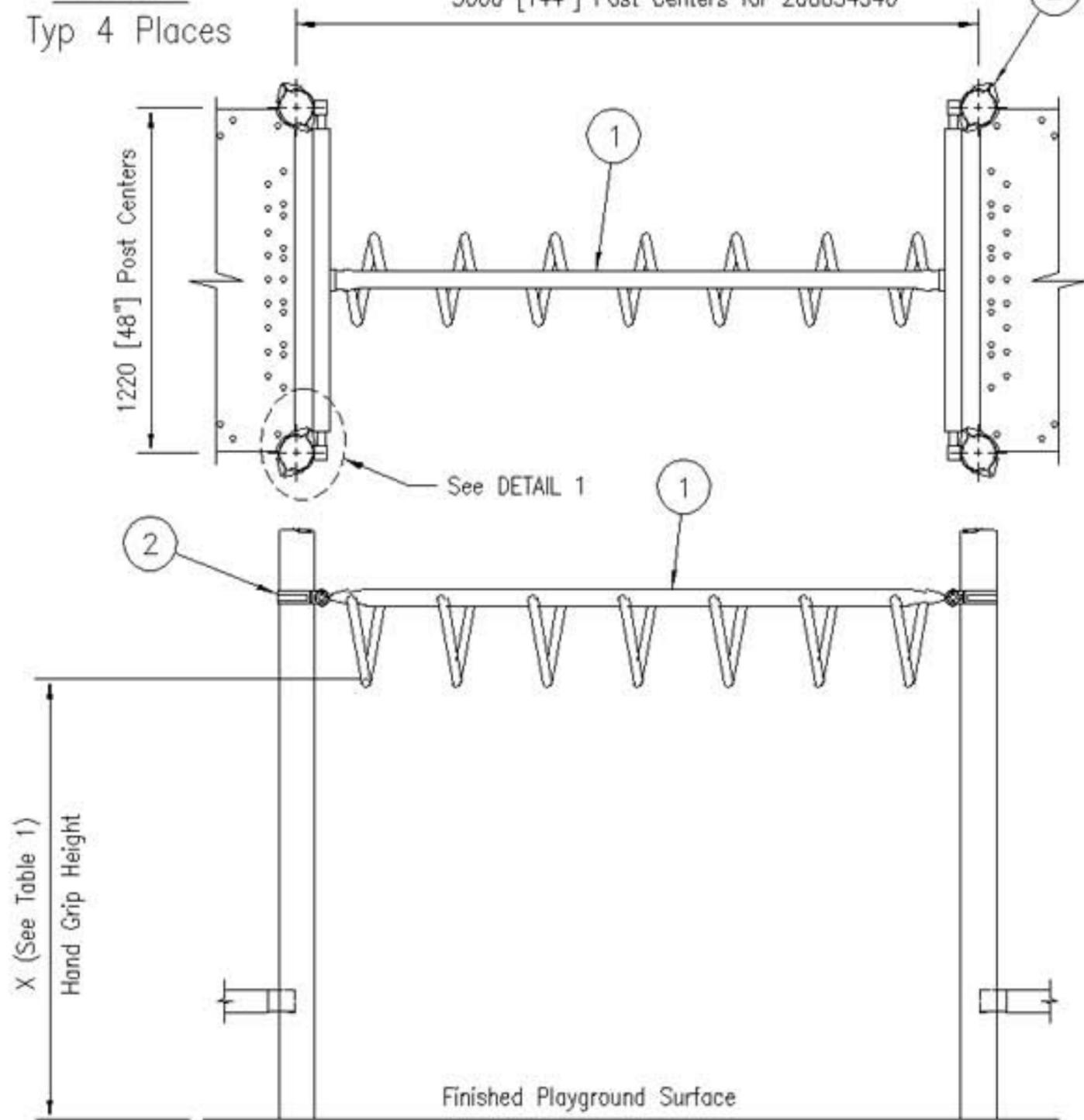
LADDER RING CHALLENGE F/KB 3660 [144"]
200034346

AUTHORIZED BY:
Chris M. [Signature] 20JUN07



DETAIL 1
Typ 4 Places

2440 [96"] Post Centers for 200034344
3660 [144"] Post Centers for 200034346



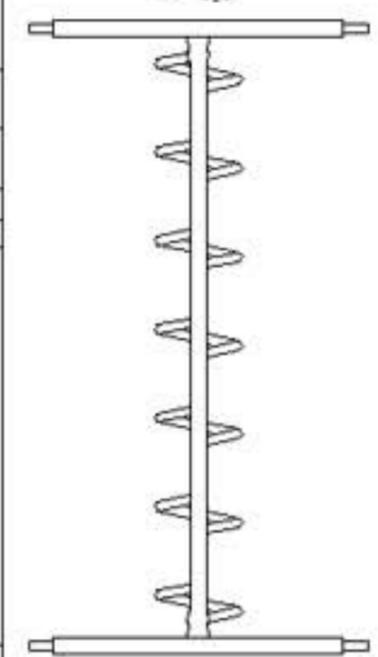
2440mm Ring Challenge Ladder Shown

Item	Code	Description	Qty.
1A	-	WELDED RING TREK F/KB 2440	1
1B	-	WELDED RING TREK F/KB 3660	1
2	-	RAIL CLAMP - W/WEDGE/30 DEG. ATTACH.	4

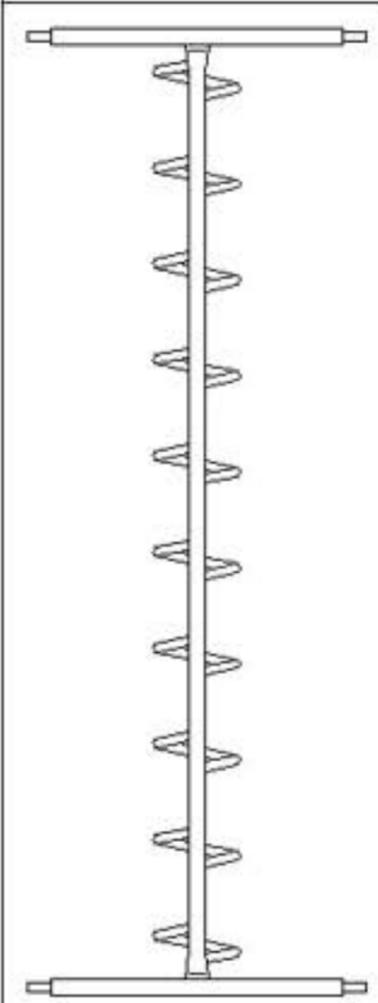
Application
- For ages 2-5 or 5-12.

Installation Instructions

1. Prepare footings.
2. Install posts.
3. Slide four wedge clamps onto the Challenge Ladder stubs (Refer to Detail 1).
4. Position Challenge Ladder at proper height and attach wedge clamps to posts (refer to front of manual for clamp installation detail).
5. Tighten all hardware and install clamp drive pins.
6. Complete footings and install resilient surfacing.



1A

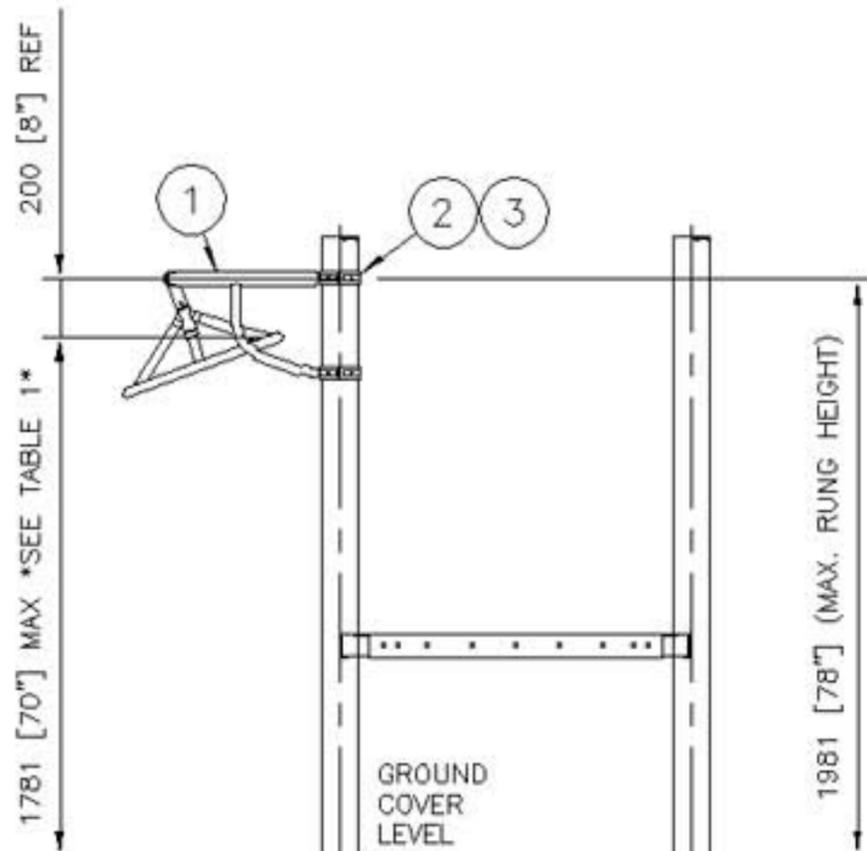
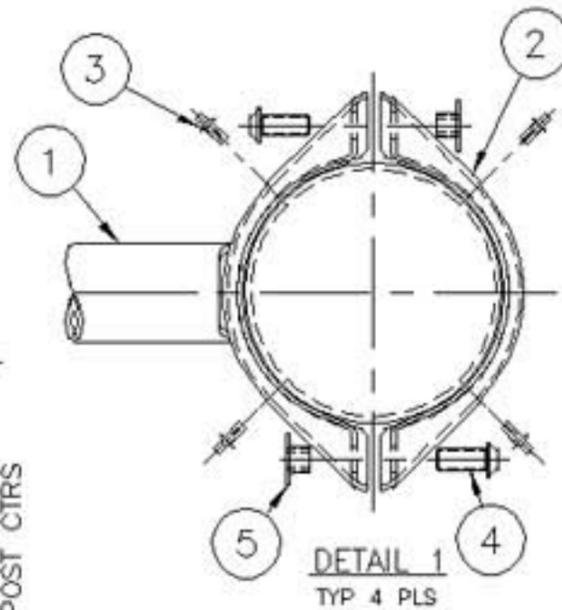
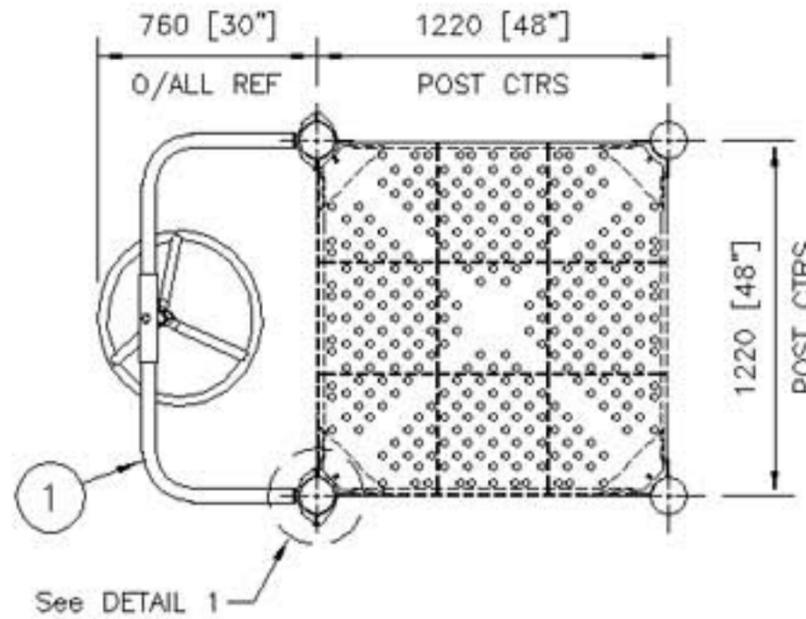


1B

TABLE 1

Age Group	X (Hand Grip Height)
2-5 Years	1524mm [60"]
5-12 Years	1981mm [78"]

AUTHORIZED BY:
Eric L. Cloudus 21 OCT 09



SINGLE FUNWHEEL 200202270

Item	Code	Description	Qty.
1	-	ASSY SGL. FUNWHEEL F/KB	1
2	-	CLAMP HALF W/O WELDED ATTACHMENT	4

HARDWARE

Item	Code	Description	Qty.
3	200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	16
4	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	8
5	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	8

Application

- Age Group: (5 - 12 Year Olds)
- Maximum Distance between Rung Height (Center of Grasping Location) to Top of Surfacing is 1981mm [70"].
- Recommended Deck Heights are 0mm [0"] to 610mm [24"].
- Maximum Deck Height is 762mm [30"]

Installation Instructions

- NOTE: Install adjacent playground components prior to installation of funwheel to insure no clamp conflicts.
- Lift Beam Assembly (Item 1) and loosely attach to posts (refer to DETAIL 1).
- Position to proper height and check for level and plumb.
- Tighten all clamps and hardware.
- At each small hole location, drill a 5mm hole and install hammer drive pins (NOTE: Four (4) drive pins per post).

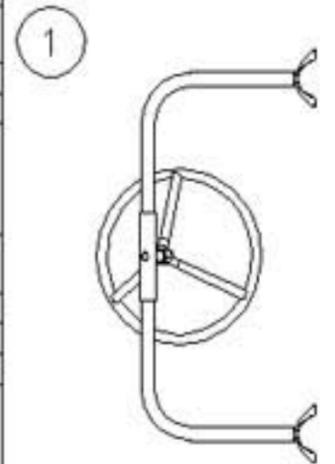
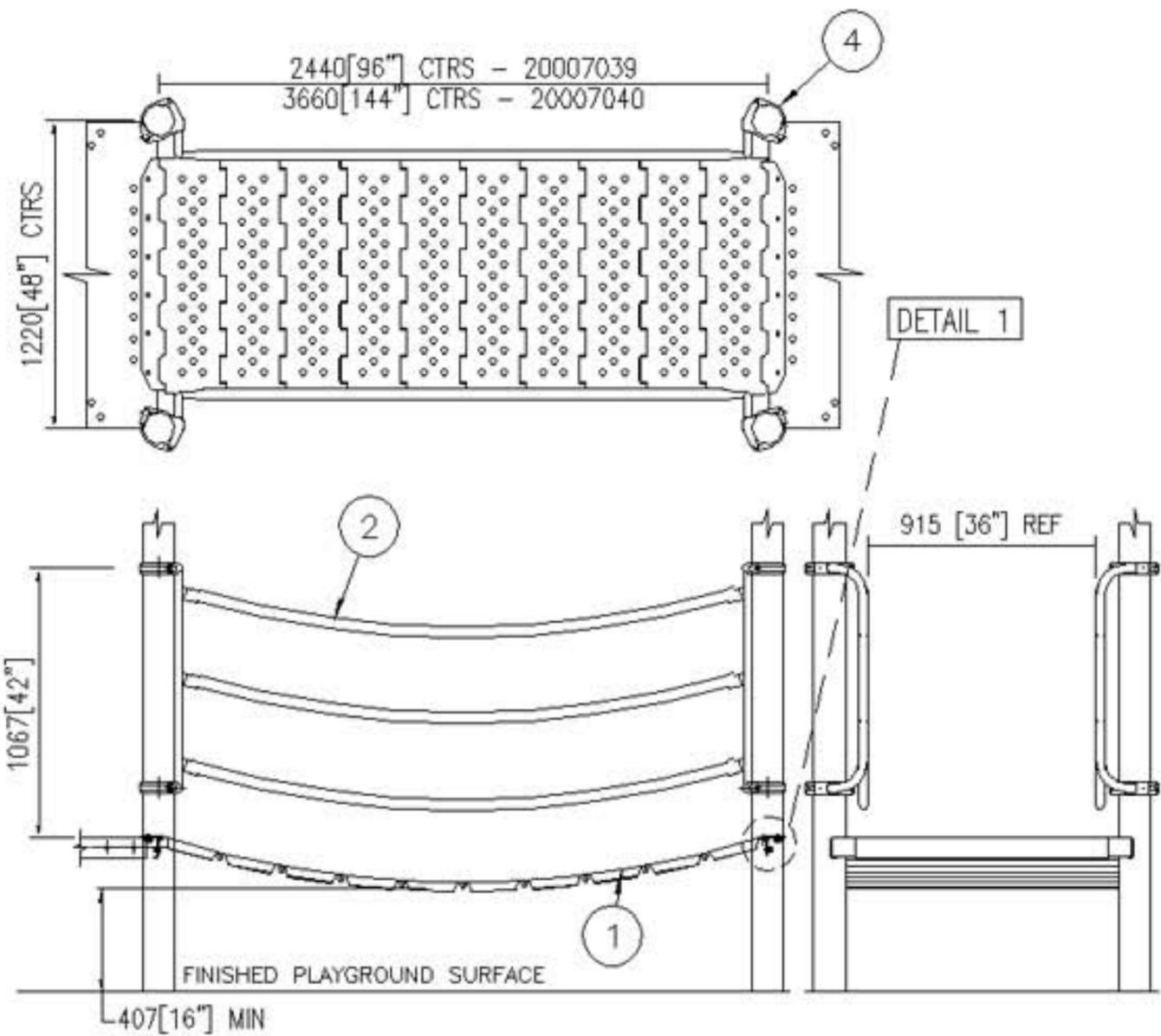
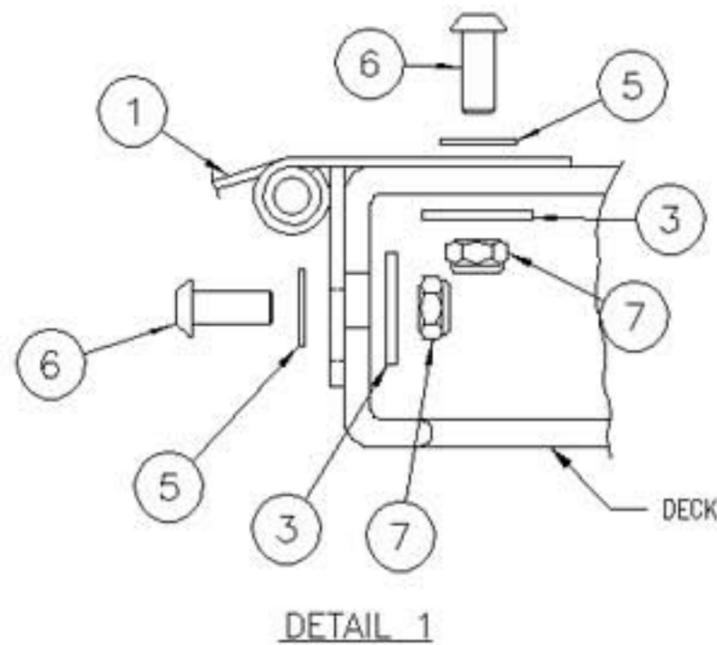


TABLE 1

AGE GROUP	REACH HEIGHT RANGES
5-9 YEARS	1140mm[45"]-1524mm[60"]
9-12 YEARS	1524mm[60"]-1778mm[70"]



2440 CLATTER BRIDGE 200001039
3660 CLATTER BRIDGE 200007040
BRIDGE CLATTER 8' W/GRD.RLS(SMALL HOLES) 200200344
BRDG CLATTER 3660/12' GRD RL(SMALL HOLES) 200200390
BRIDGE CLATTER 8' KB W/SFTY.RL (SM HOLE) 200202246
BRIDGE CLATTER 8' KB W/SFTY.RL(LG HOLE) 200202247

Item	Code	Description	Qty.
1A	200003226	ASSY 2440 CLATTER BRIDGE (TDV)	1
1B	200003230	ASSY 3660 CLATTER BRIDGE (TDV)	
1C	200148103	ASSY 8' CLATTER (TDV) (SMALL HOLES)	
1D	200148267	ASSY 12' CLATTER (TDV) (SMALL HOLES)	
2A	-	GUARD RAIL KB 2440 CLATTER BRIDGE	2
2B	-	GUARD RAIL KB 3660 CLATTER BRIDGE	
2C	-	SAFETY RAIL F/KB 2440 CLATTER BRIDGE	
4	-	KB HOODED RAIL CLAMP	8

HDWR BAG F/KB CLATTER BRIDGES 200007669

Item	Code	Description	Qty.
3	200002096	WASHER FLAT M10 340D X 111D X 3mm THK	26
5	200002079	WASHER FLAT M11 23 X 12 X 1.6mm	26
6	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25mm	26
7	200001945	NUT LOCK HEX NYLON INSERTED M10 1.5	26

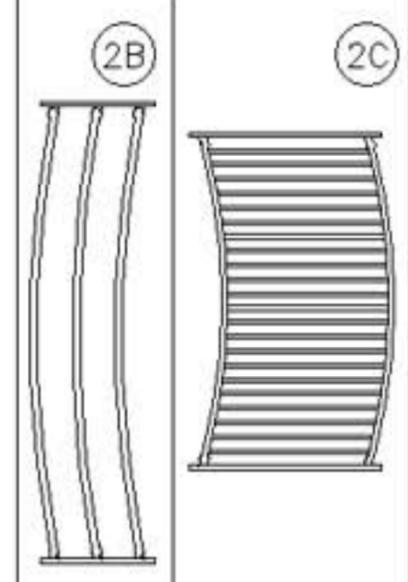
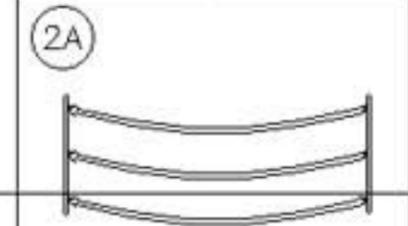
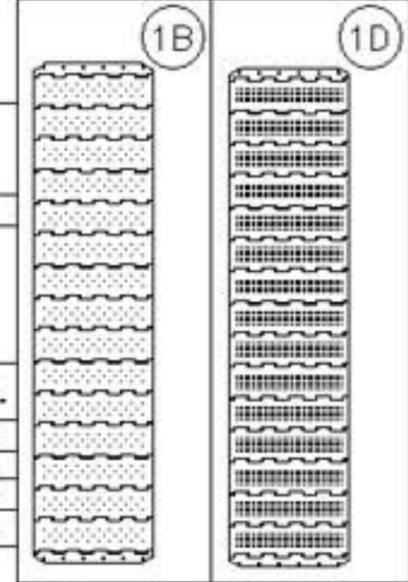
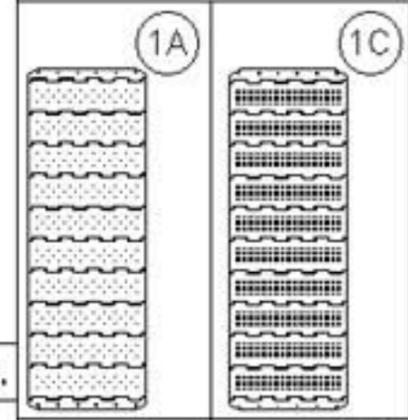
Application

- Max. deck height for 5-12 age group is 1220[48"].
- Max. deck height for age group 2-5 is 760[30"].
- Min. height of bridge is 407[16"].
- Decks must be at the same height on either end of bridge.

Installation Instructions

1. Install decks (refer to deck installation instructions for details).
2. Place a saw horse between decks and drape the clatter bridge assembly over it.
3. Attach top plates of the clatter bridge hangers (both ends) to the top of the two decks (refer to Detail 1).
4. Attach the vertical edge of the hangers to the two deck edges (refer to Detail 1).
5. Slide hooded rail clamps over the guard rail ends.
6. Position guard rails at the proper height and fasten hooded rail clamps to the posts (refer to front of manual for clamp installation detail).
7. Tighten all hardware.

AUTHORIZED BY: _____ Date _____

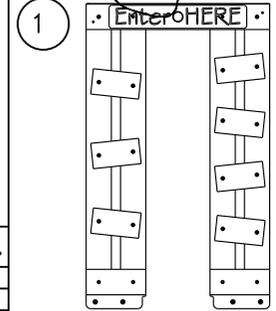


NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

AUTHORIZED BY:
Chris M. Anderson 18AUG11

- RECYCLED TREEHOUSE SNAKE POLE 36" F/KB 200202452
- RECYCLED TREEHOUSE SNAKE POLE 48" F/KB 200202453
- RECYCLED TREEHOUSE SNAKE POLE 64" F/KB 200202454
- RECYCLED TREEHOUSE SNAKE POLE 72" F/KB 200202459
- RECYCLED TREEHOUSE SNAKE POLE 80" F/KB 200202460
- RECYCLED TREEHOUSE SNAKE POLE 88" F/KB 200202461
- RECYCLED TREEHOUSE SNAKE POLE 96" F/KB 200202462

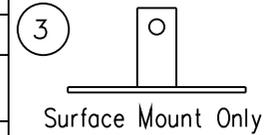
Item	Code	Description	Qty.
1	-	PANEL TREE VERT CLIMB "ENTER HERE"	1
2	-	KB WING CLAMP ASSEMBLY	2
3	-	TUBE ANCHOR F/VERTICAL CLIMBERS *	1
4	-	SNAKE POLE	1



* FOR SURFACE MOUNT ONLY

HDWR BAG F/TREEHOUSE CURLY/SNAKE CLIMB 200190205

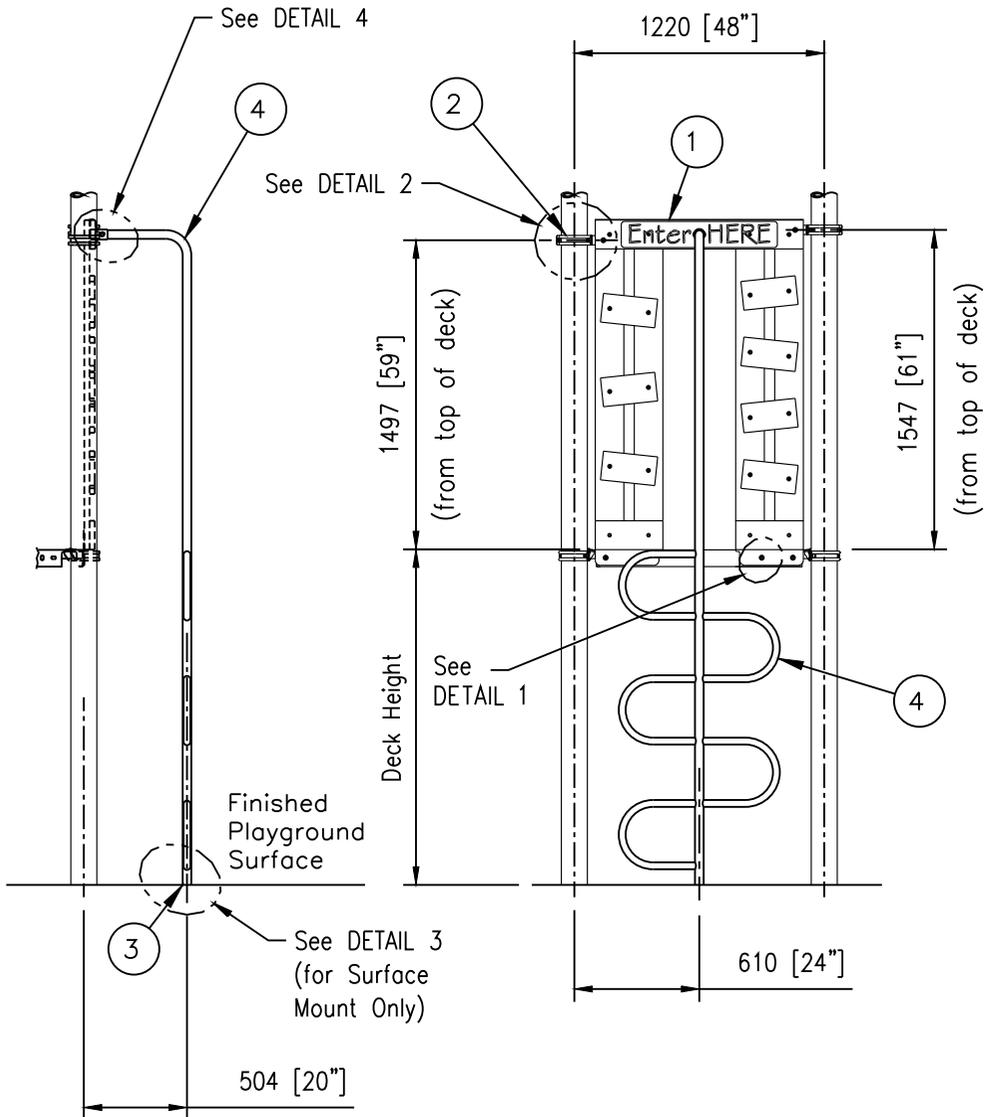
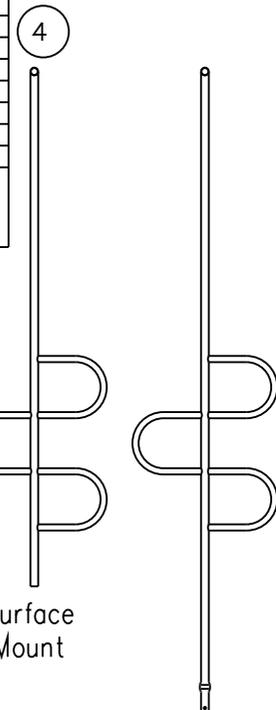
Item	Code	Description	Qty.*	Qty.**
5	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	4	4
6	200002138	BOLT M8 X 1.25 MALE 42.5 MM	3	3
7	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30 MM	4	3
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	4	4
9	200008483	WASHER BOWED M11 23.5 X 11.7 X 1.57 MM	4	2
10	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	12	12
11	200002133	BOLT M8 X 1.25 MALE 27.5 MM *	1	0



Installation Instructions

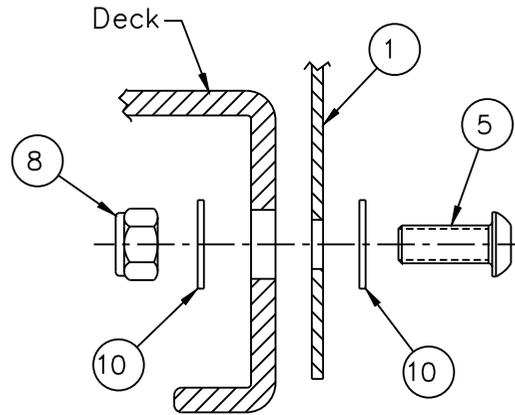
* FOR SURFACE MOUNT
** FOR INGROUND MOUNT

1. Prepare footing.
2. Loosely attach the clamps to the posts (refer to front of manual for clamp installation details).
3. Lift enclosure into place and loosely attach to deck edge (refer to DETAIL 1).
4. Loosely attach enclosure to clamps (refer to DETAIL 2).
5. For Surface Mount version, loosely attach tube anchor to climber (refer to DETAIL 3).
6. Lift climber into place and attach to enclosure (refer to DETAIL 4).
7. Check for level/plumb, tighten all hardware and install clamp hammer drive pins.

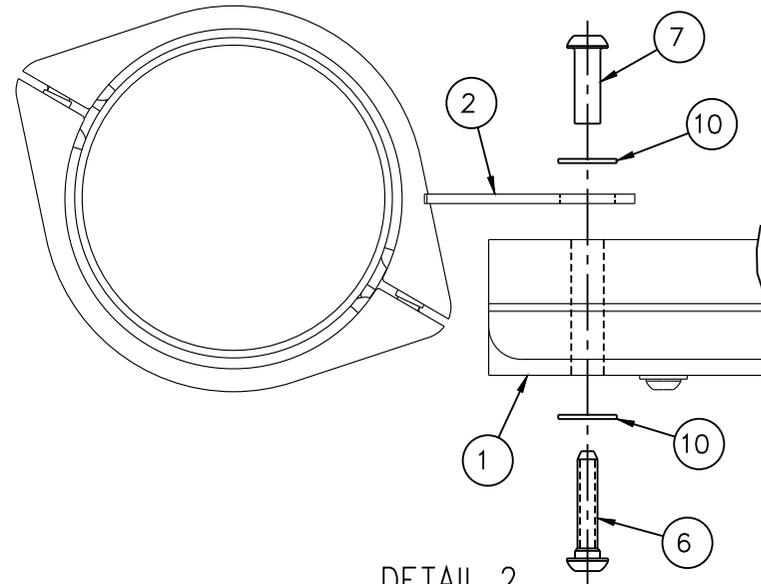


NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

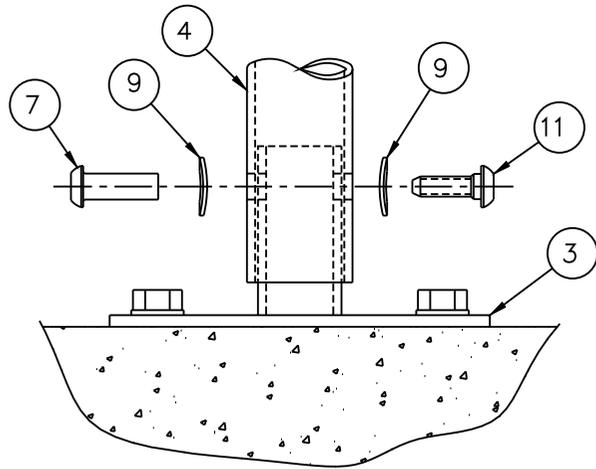
Chris M. Newberry



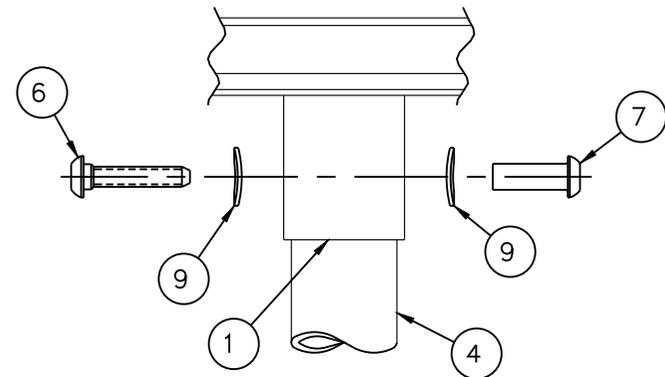
DETAIL 1
Typ 4 Places



DETAIL 2
Typ 2 Places



DETAIL 3
Surface Mount Only



DETAIL 4

AUTHORIZED BY: 23FEB18
Tracy Archer

**RAIL 10-BAR SAFETY KB W/O MT. TAB
200029708**

**RAIL 10-BAR SAFETY KB
200007132**

Item	Code	Description	Qty.
1A	910317P	10 BAR ARCH SAFETY KB W/O TAB	1
1B	910311P	SAFETY RL ARCH 10-BAR W/TAB F/KB	1
2	909346P	HOODED RAIL CLAMP F/KB	2
3	HW7712-1	HRDW PKG ARCH SFTY RL/MSH PNL 1/1	1
4	HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS 1/1	1

**HRDW PKG ARCH SFTY RL/MSH PNL 1/1 -
HW7712-1**

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

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

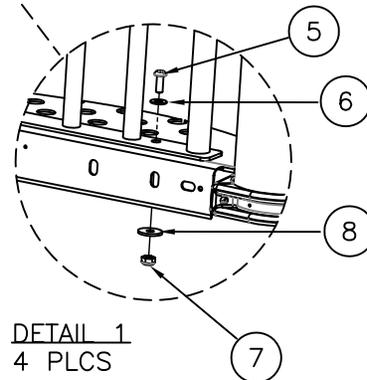
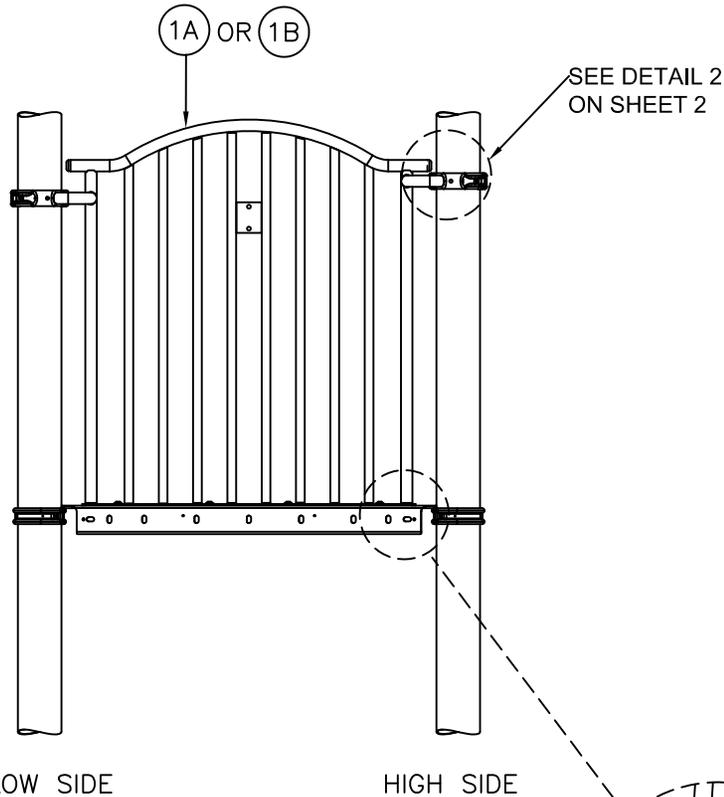
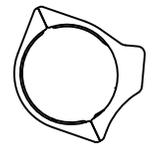
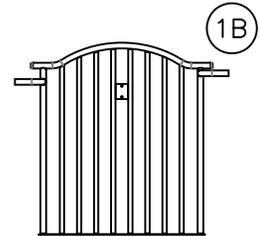
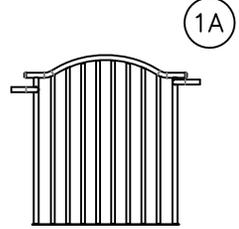
Item	Code	Description	Qty.
9	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	4
10	200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	4
11	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	4

Application

- For ages 2-12.
- 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.

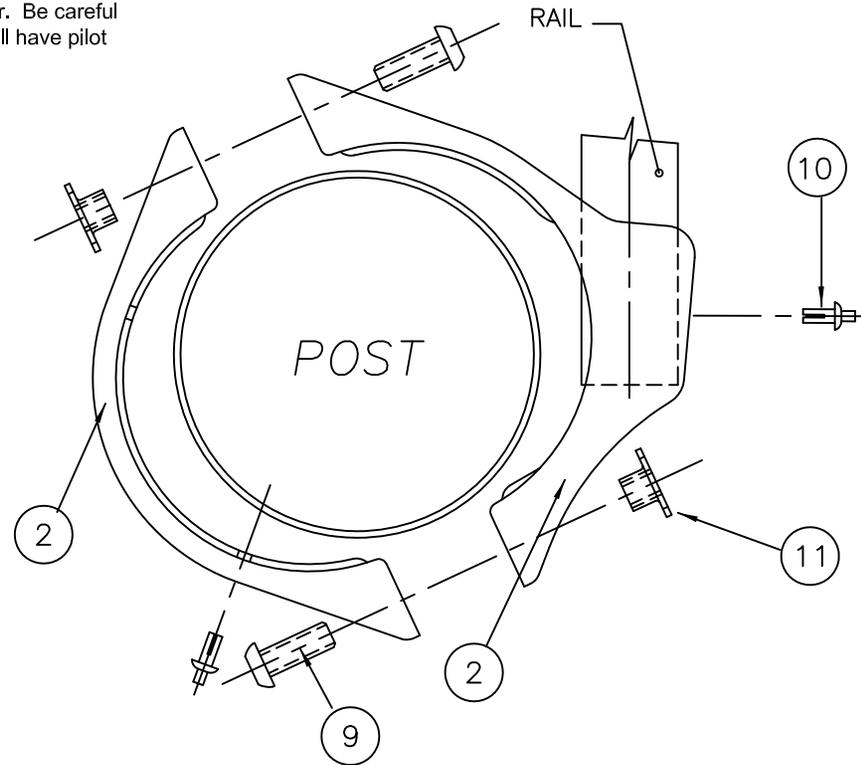
Installation Instructions

1. Loosely attach hooded rail clamps to posts. Note high side/low side clamps.
2. Attach safety arch (Item 1A or 1B) to deck edge as shown in DETAIL 1.
3. Attach the panel to the clamps as shown in DETAIL 2, SHEET 2.
4. Refer to instruction I900056 for steering wheel assembly.
5. Make sure safety arch is level and tighten all hardware.



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 (Item 2) will have a small hole and a large hole on opposite sides. The larger hole accommodates the tee nuts (Item 11).
2. Always make sure the event is at the proper height and the clamps are level before hammer drive pins (Item 10) are installed.
3. There will also be two (2) 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 installation.



DETAIL 2

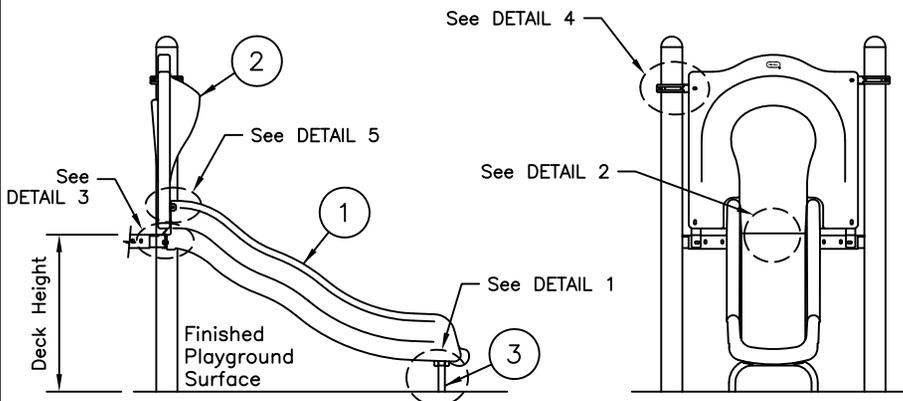
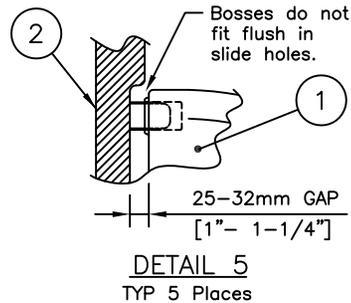
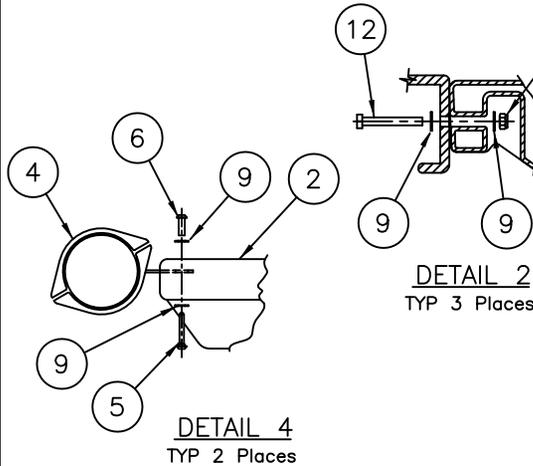
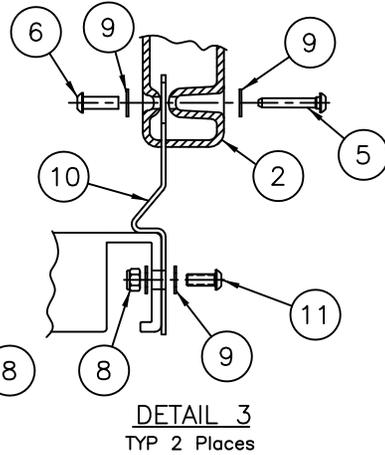
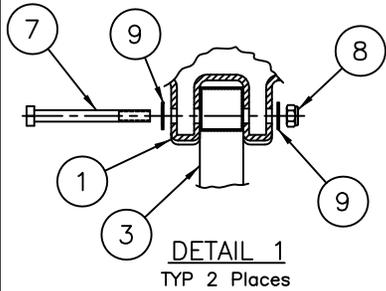


812/915/1016/1220 SINGLE WIDE WAVE SLIDES

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

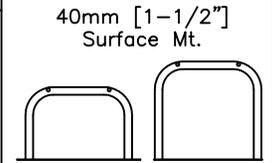
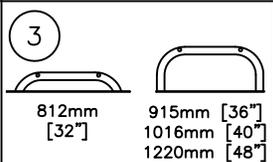
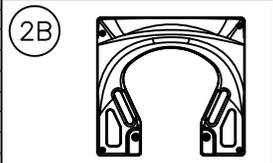
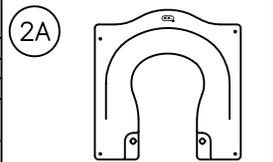
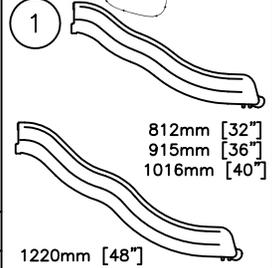
Item	Code	Description	Qty.
5	200002142	BOLT M8 X 1.25 MALE 57.5 mm	4
6	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30mm	4
7	200001875	CAP SCREW HEX HEAD M10 1.50 X 110mm	2
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	7
9	200002079	WASHER FLAT M11 23 X 12 X 1.6 mm	22
11	200002018	SCREW MACH BUTTONHEAD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

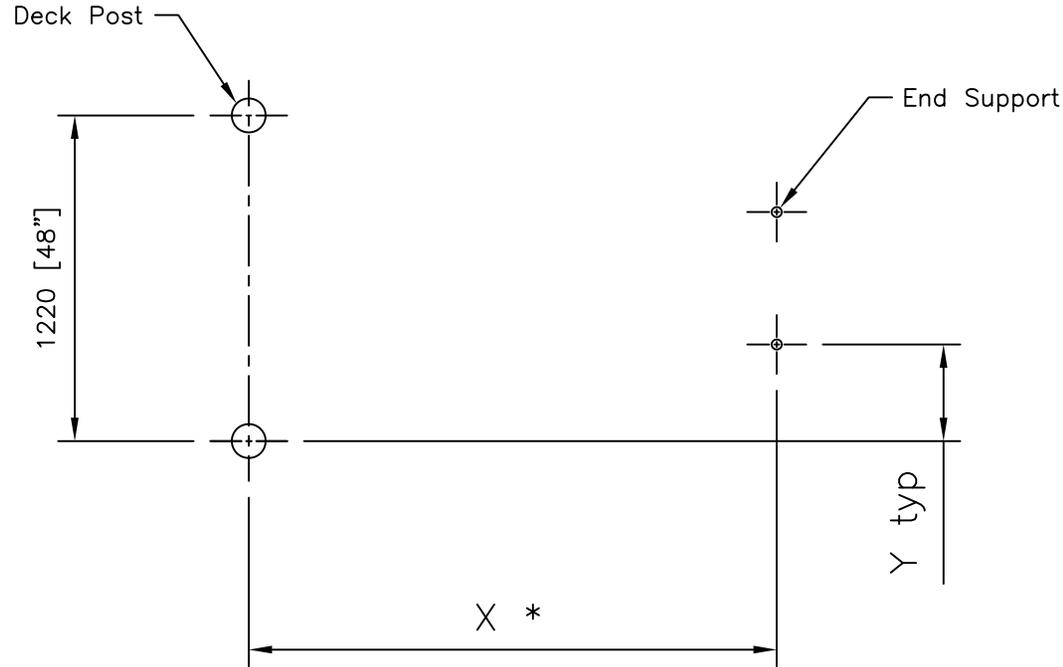
1. Prepare footings.
2. Attach the end support to the underside of the Slide as shown in DETAIL 1.
3. Place the support in the footing and attach the Slide to the deck edge as shown in DETAIL 2. If Surface Mounting, anchor the supports to the concrete.
4. Insert the bosses located at the front of the 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



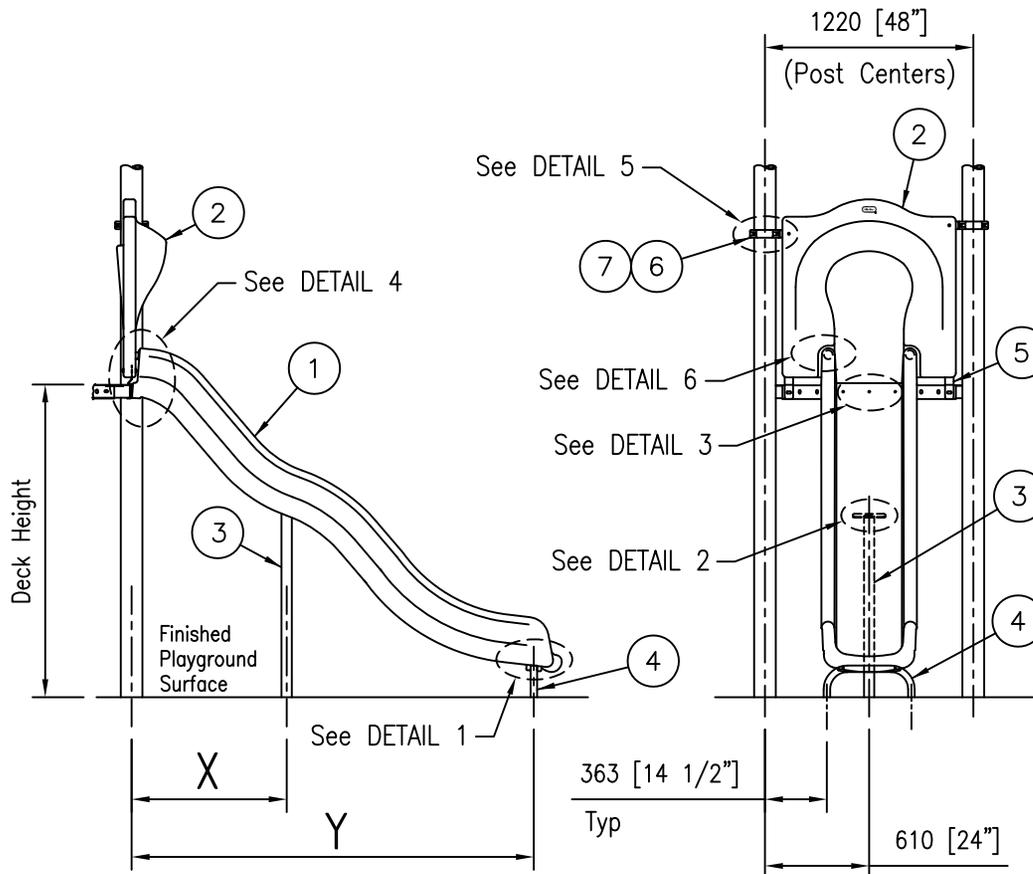
DECK HEIGHT	X		Y	
	Surface Mount	Inground	Surface Mount	Inground
812 [32"]	1650 [65"]	1650 [65"]	325 [13"]	363 [14-1/2"]
915 [36"]	1650 [65"]	1650 [65"]	363 [14-1/2"]	363 [14-1/2"]
1016 [40"]	1610 [63-1/2"]	1650 [65"]	410 [16"]	363 [14-1/2"]
1220 [48"]	1980 [78"]	1980 [78"]	363 [14-1/2"]	363 [14-1/2"]

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

FOOTING DIMENSIONS

Deck Height	X* (mid support)	Y* (end support)
1625 [64"]	965 [38"]	2475 [97 1/2"]
1830 [72"]	908 [36"]	2356 [92 1/2"]

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



NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

KB SLIDE WAVE 1625 MM/64" 200006981
KB SLIDE WAVE 1830 MM/72" 200201043

KB SLIDE WAVE 64" W/2014 HOOD 200203327
KB SLIDE WAVE 72" W/2014 HOOD 200203328

Item	Code	Description	Qty.
1	-	SLIDE WAVE SGL.WD. 1625 MM	1
2A	-	HOOD SGL.WD. F/KB SLIDES	1
2B	-	KB SGL WIDE SLIDE HOOD (2014)	1
3	-	SUPP. MID WAVE SLIDE	1
4	-	SUPPORT END F/KK WAVE SLIDE	1
5	-	TAB F/PANEL MOUNTING F/KB	2
6	-	KB PANEL CLAMP ASSEMBLY	2

HDWR BAG F/KB 64" WAVE SLIDE (MM)
200007675

Item	Code	Description	Qty.
8	200002142	BOLT M8 X 1.25 MALE 57.5 MM	4
9	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30 MM	4
10	200001859	CAP SCREW HEX HEAD M10 X 1.50 X 75mm	3
11	200001875	CAP SCREW HEX HEAD M10 X 1.50 X 110 MM	2
12	200002010	SCREW MACH BUTTONHEAD M10 X 1.50 X 16mm	4
13	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25mm	2
14	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	7
15	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	26

Application

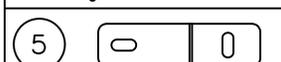
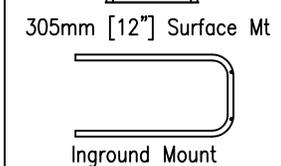
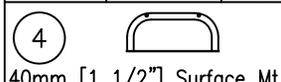
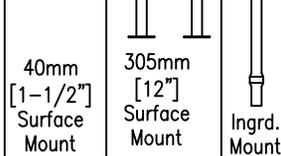
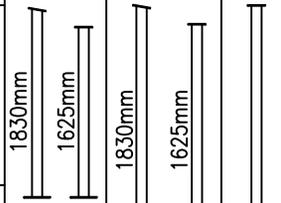
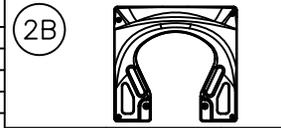
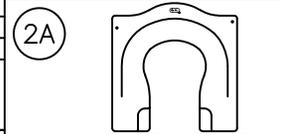
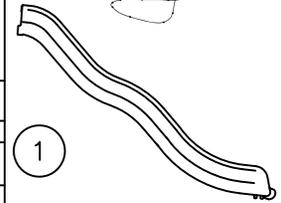
- Age groups: (2-5 year olds) & (5-12 year olds).
- For slides with an elevation greater than 1220 [48"], exit region should be between 180-380 [7"-15"].
- Runout slope must be between 0 and -4 degrees.

Installation Instructions

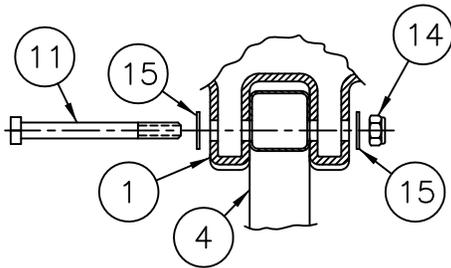
1. Prepare footings.
2. Attach the end support to the underside of the Slide as shown in DETAIL 1. Attach the mid support to the slide in the location as shown in DETAIL 2.
3. Place the supports in the footings and attach the Slide to the deck edge as shown in DETAIL 3. If Surface Mounting, anchor the supports to the concrete.
4. Insert the bosses located at the front of the Slide Hood into the holes provided on the top of the side walls of the Slide as shown in DETAIL 6. 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.
5. Insert the deck mounting tabs in the lower portion of the hood then attach to the deck edge as shown in DETAIL 4. (NOTE: vertical slot in tab should be inserted into panel off centered to the outside.)
6. Insert panel clamps into the slots in the Hood as shown in DETAIL 5. Attach the clamps to the posts. (Refer to front of manual for clamp installation detail.)
7. Tighten all hardware.
8. Complete footings and install resilient surfacing.

AUTHORIZED BY: 12DEC14

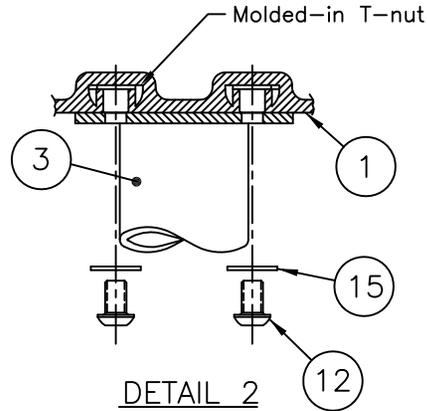
Chris M. Newberry



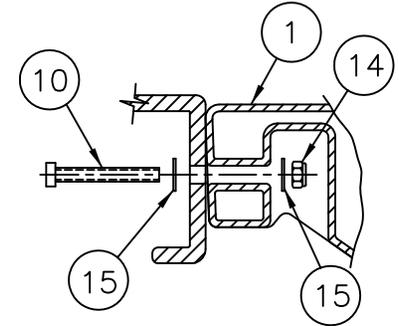
Chris M. Mackay



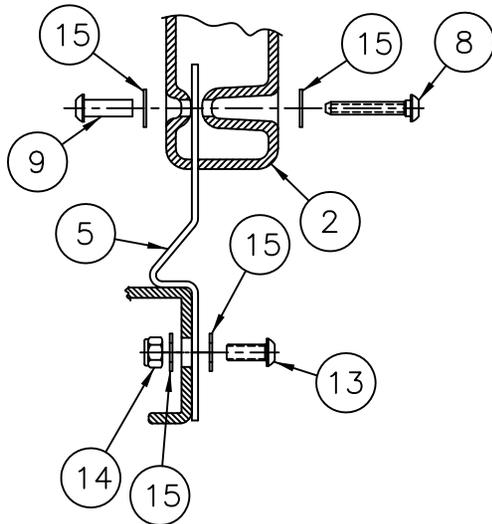
DETAIL 1
Typ 2 Places



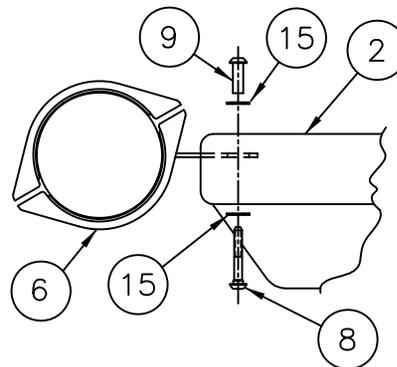
DETAIL 2
Typ 2 Places



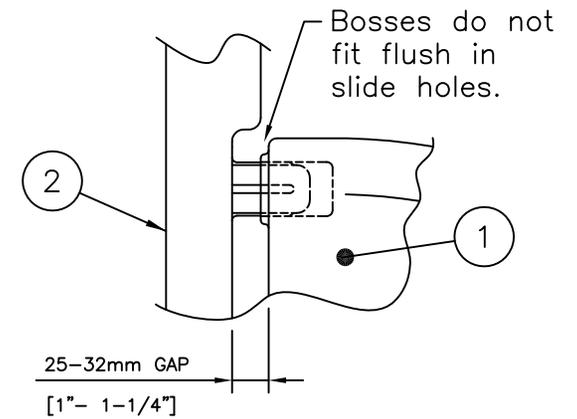
DETAIL 3
Typ 3 Places



DETAIL 4
Typ 2 Places

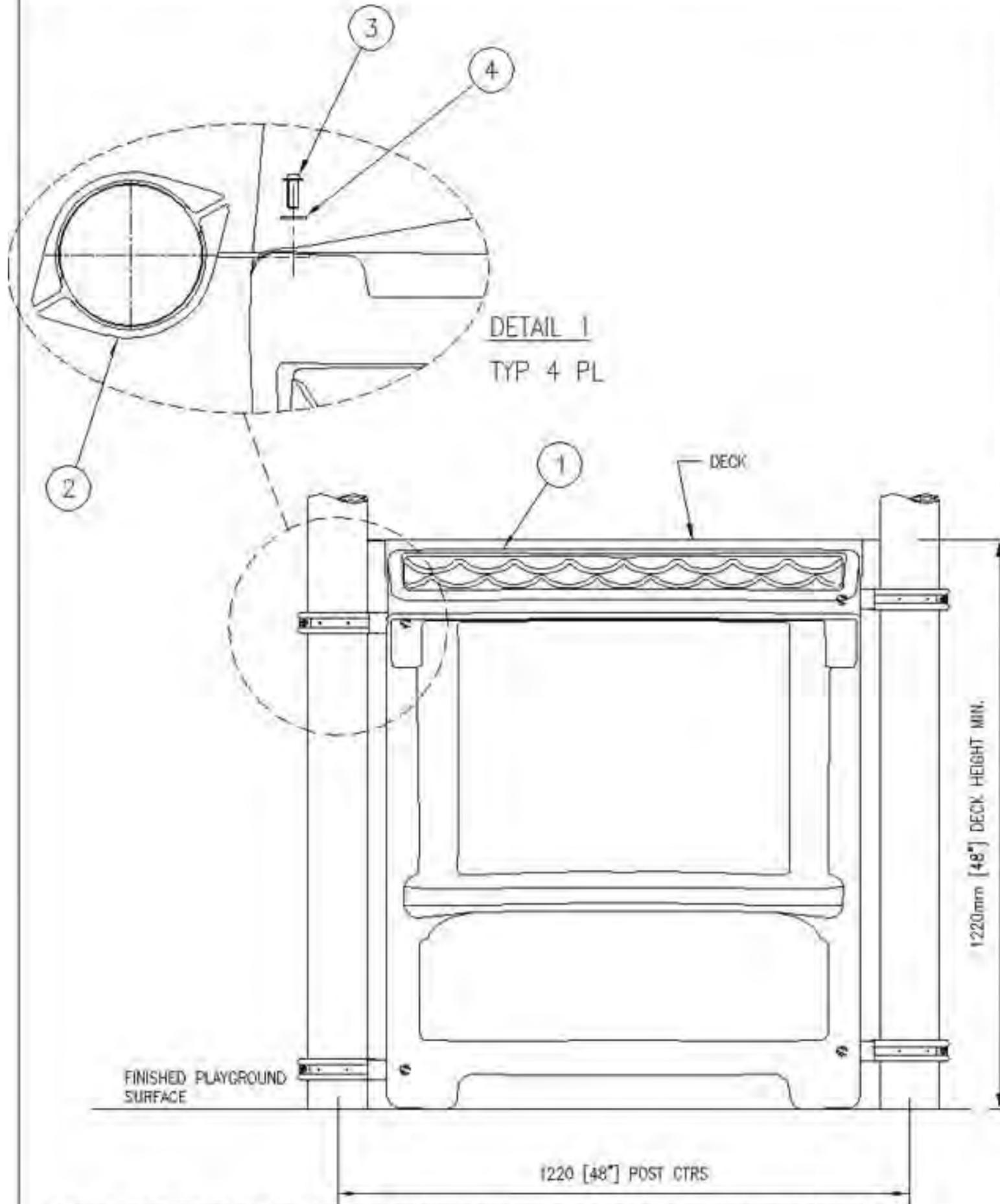


DETAIL 5
Typ 2 Places



DETAIL 6
Typ 2 Places

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

AUTHORIZED BY
Chris M. [Signature] 47JAND1

SQUARE ROOF
200007137

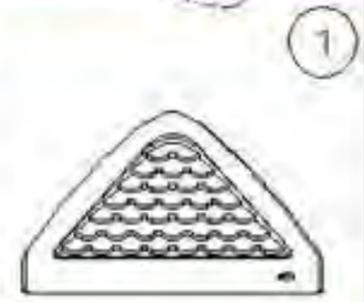
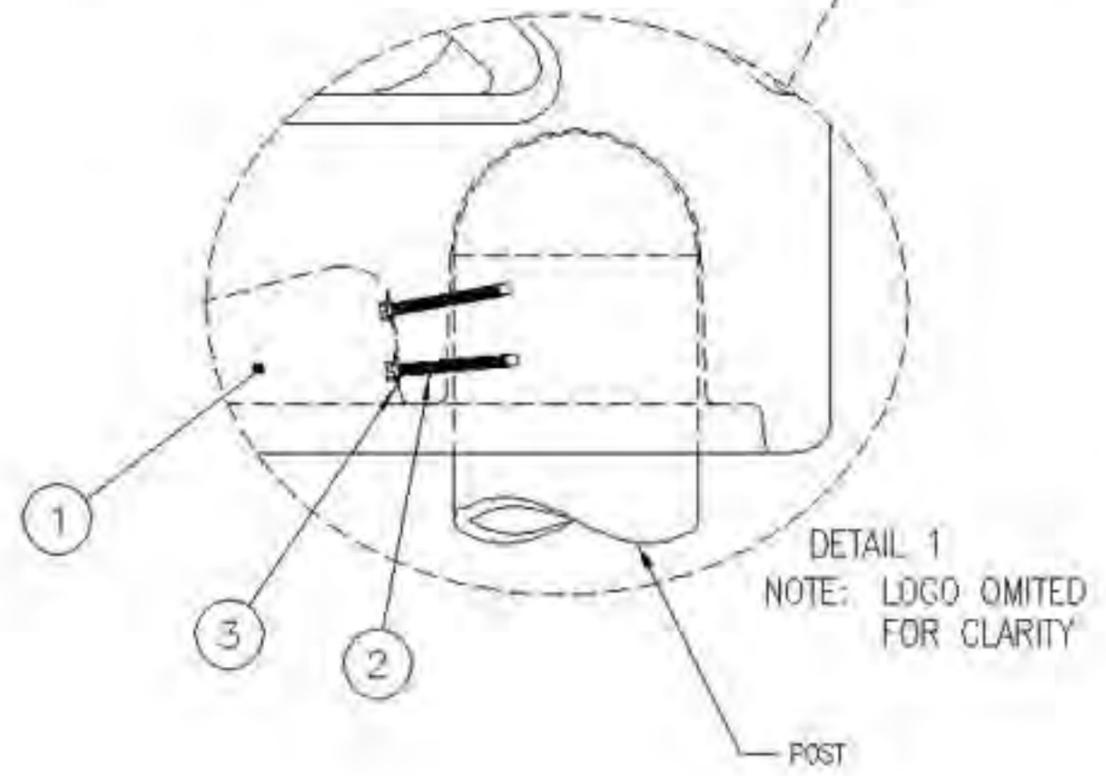
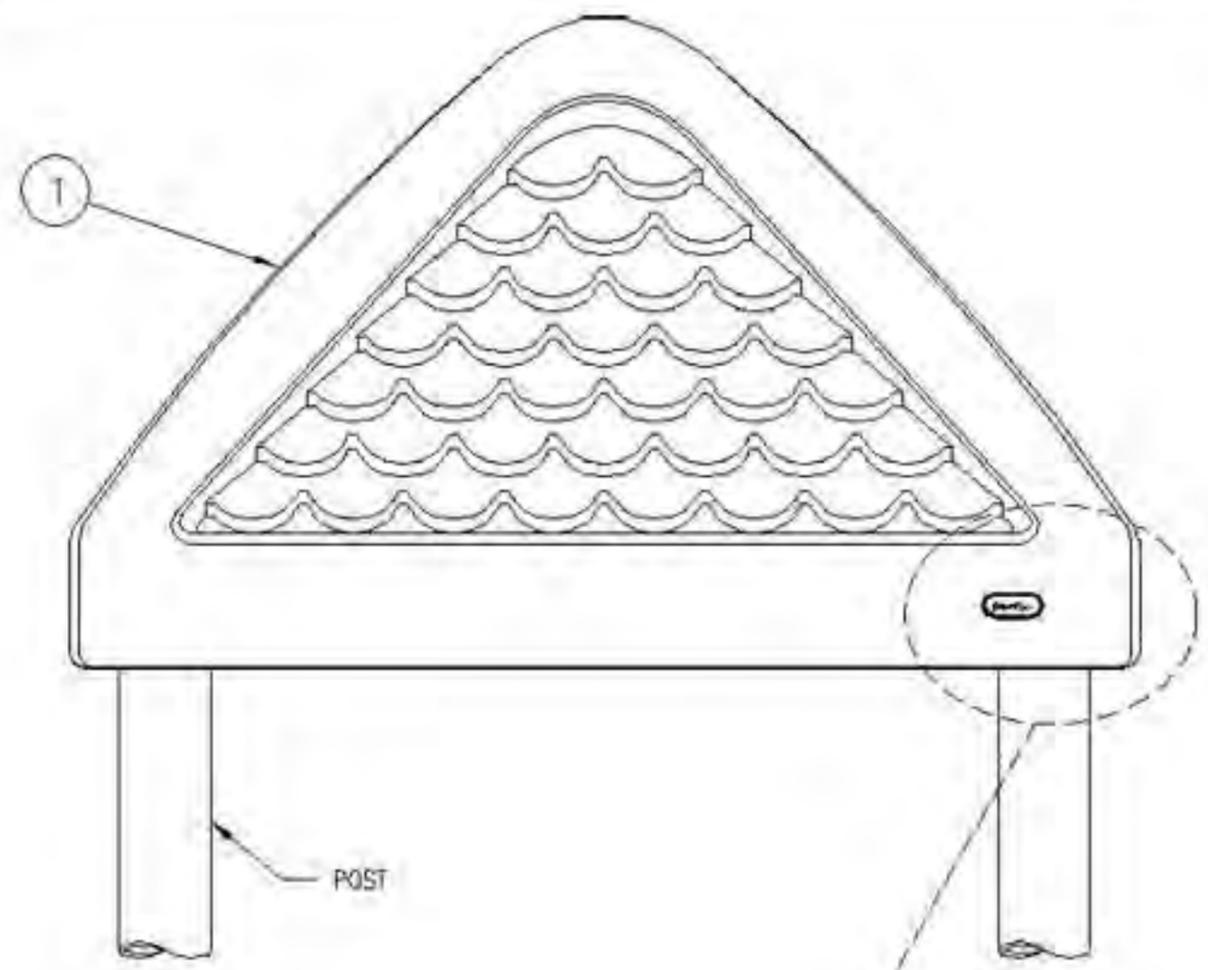
Item	Code	Description	Qty.
1	-	ROOF F/KB	1
2	200002002	SCREW DRILL HEX HEAD M6.3 X 1.81 X 65mm	8
3	200002057	WASHER FLAT M6 17.5 X 7.5 1.5mm	8

Application AGE GROUPS (2-12 YEAR OLDS)

- 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).





Project Number: R0324200140

PlayArea: PlayArea_1 | Traditional Play

Project Name:

Project Location:

Sales Representative:

Northland Recreation
10085 Bridgewater Bay
Woodbury, MN 55129
2623138636

Installation Instructions

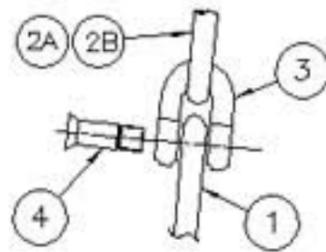
Please, read all information in this manual before starting to install your equipment.

Date: 2/19/2020 12:00:00 AM

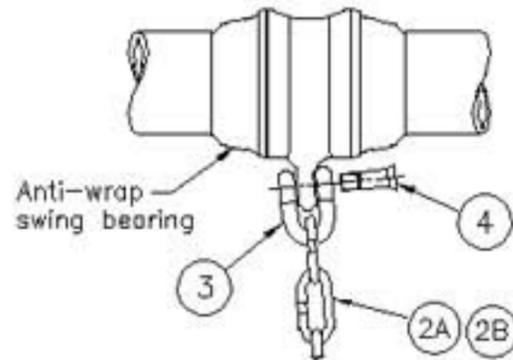
TOT SWING SEAT

AUTHORIZED BY: 14APR14

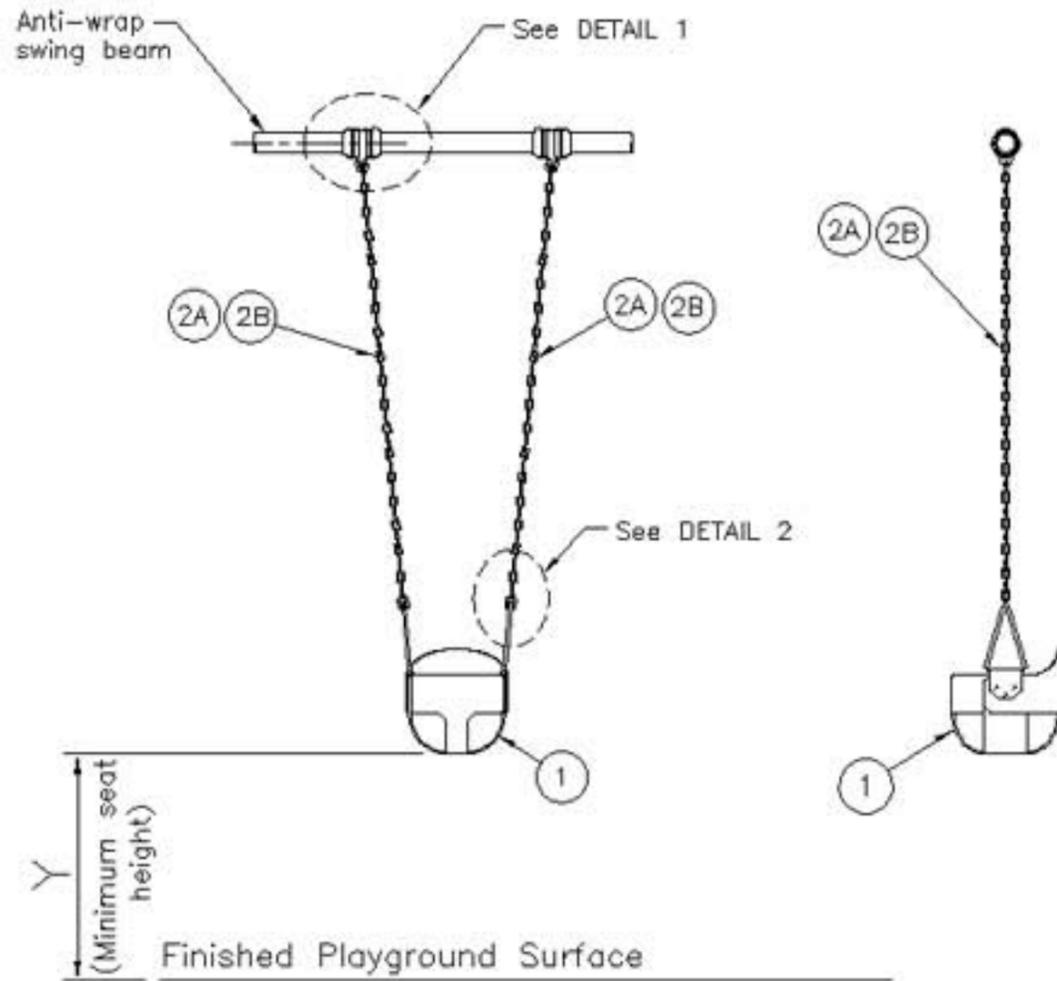
Alpha



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:

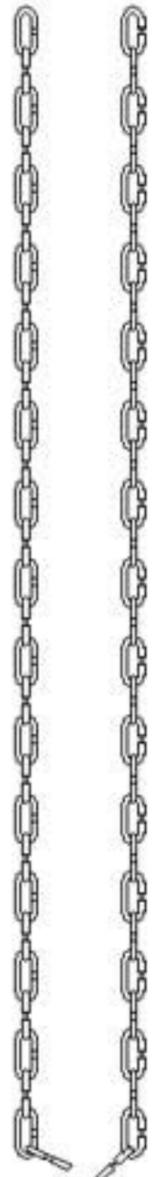
1. See separate instruction for swing frame installation.

1



2A

2B

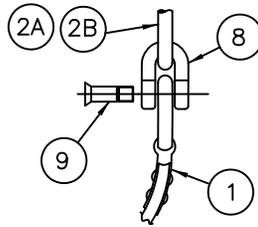


BELT SWING SEAT

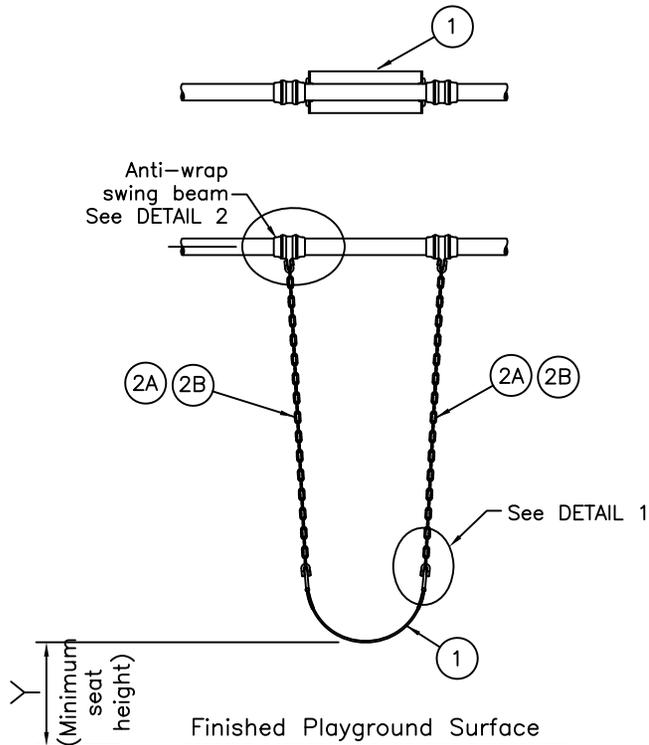
I800039C

Sheet 1 of 2

AUTHORIZED BY: 17APR19
Steve Adkins



DETAIL 1
Typ 2 Places



ASSEMBLY BELT SEAT F/8' SWING W/CHAIN - 200202835
ASSEMBLY BELT SEAT F/10' SWING W/CHAIN - 200202832

Item	Code	Description	Qty.
1	999604*	BELT SWING SEAT, SLASH PROOF - NO LOGO	1
2A	200187286	CHAIN F/8' TOP RAIL BELT/DURAGLIDE (71")	1
2B	200187287	CHAIN F/10' TOP RAIL BELT/DURAGLIDE (95")	1
3	200189491	HDWR BAG LBL/INST.F/BELT SWG CSA	1
4	200189492	HDWR BAG LBL/INST.F/BELT SWG 8' BEAM US	1
5	200189493	HDWR BAG LBL/INST.F/BELT SWG 10' BEAM US	1
6	200001167	T-45 TAMPER PROOF KEY (TORX WRENCH)	1
7	HW35993-02	HRDW PKG 2 SM D STY SKL ST S1/1	1

HRDW PKG 2 SM D STY SKL ST S1/1 - HW35993-02

Item	Code	Description	Qty.
8	200035993	SHACKLE "D" STYLE 41MM 300 SS (SMALL)	2
9	200035994	BOLT M10 X 1.5 X 27MM 300 SS 6-LOBE (SM)	2

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

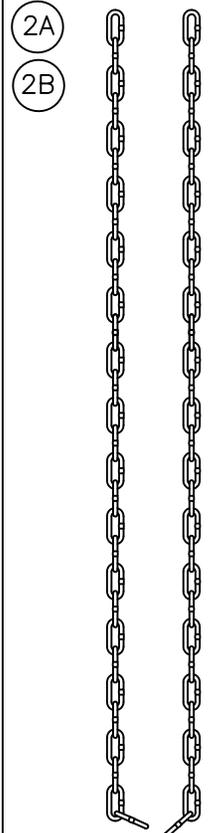
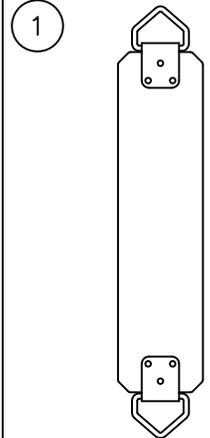
MATERIAL: Rubber with a tempered steel insert molded inside

Installation Instructions

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

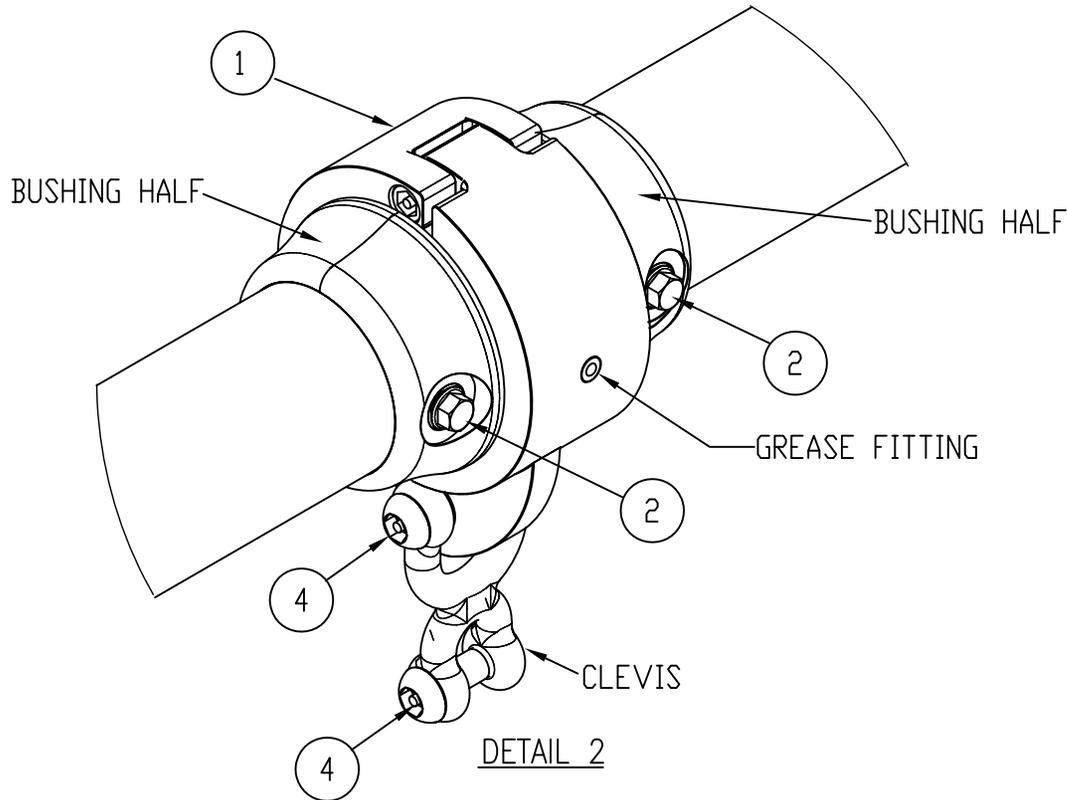
NOTES:

1. See separate instruction for swing frame installation.



NOTE:

1. MINIMUM SEAT HEIGHT TO BE 12 INCHES.



994824 - (2) ANTI WRAP HANGER 2 3/8" TOP RAIL PARTS

Item	Code	Description	Qty.
1	102421	ANIT-WRAP SWING HANGER 2 3/8" TOP RAIL	2
2	104403	BOLT 1/4-14 X 1 1/4 HEX WASHER TEK	8
3	102424	5/16" HEX BIT W/HOLE (TAMPER RESISTANT)	1
4	SP2008898	LOCTITE 271 RED, .02 OZ (.5ML) DISP TUBE	1

NOTE: DISCARD TEK SCREWS THAT COME WITH THE 102421 KIT AND USE (ITEM 2).

Installation Instructions

STEP 1 – REMOVE THE BOLT FROM THE CLEVIS AND SET THE BOLT ASIDE.

STEP 2 – OPEN THE HANGER ASSEMBLY (ITEM 1) AND REMOVE THE BUSHING HALVES. CENTER ONE (1) OF THE BUSHING HALVES ON TO THE BEAM USING THE HANGER LAYOUT FOR LOCATION, SHEET 3. ATTACH USING TWO (2) OF BOLTS (ITEM 2).

STEP 3 – 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.

STEP 4 – PLACE THE HANGER ASSEMBLY (ITEM 1) AROUND THE BUSHING HALVES.

STEP 5 – APPLY LOCTITE (ITEM 4) TO THE END OF THE BOLT THAT WAS SET ASIDE IN STEP 1. ATTACH THE CLEVIS BACK TO THE HANGER ASSEMBLY (ITEM 1) USING THAT BOLT.

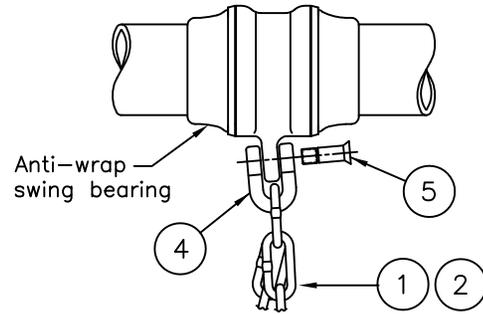
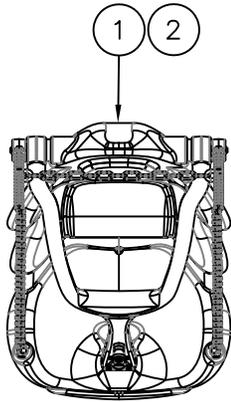
STEP 6 – ATTACH THE CHAIN TO THE BOTTOM OF THE CLEVIS USING THE BOLT THAT CAME WITH (ITEM 1). APPLY LOCTITE (ITEM 4) TO THE END OF THE BOLT BEFORE INSERTING INTO CLEVIS. TIGHTEN ALL HARDWARE.

STEP 7 – USING A GREASE GUN, PLACE A SUFFICIENT AMOUNT OF ALL-PURPOSE GREASE INTO THE GREASE FITTING TO ALLOW THE HANGER TO SWING FREELY.

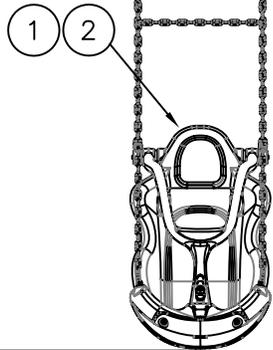
INCLUSIVE SWING SEAT

1800042D

Sheet 1 of 1

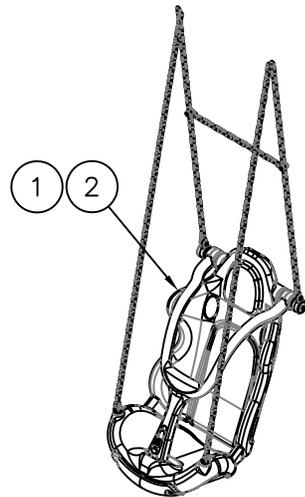


DETAIL 1
Typ 2 Places



Minimum seat height

Finished Playground Surface



NOTE:

1. MINIMUM SEAT HEIGHT TO BE 12 INCHES

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 kits below

INCL SWG SEAT RES REPLACEMENT KIT
923422

Code	Description	Qty.
304262	YOKE FRICTION SPACER	4
200097726	SCREW MACH BUTTONHEAD M10 X 1.5 X 38MM	2

REPLACEMENT LATCH F/INCL SWG SEAT
924407

Code	Description	Qty.
906478	LATCH LOCATOR SLEEVE	1
906491	LATCH GRIP	1
906498	LATCH FRONT PLATE	1
906499	LATCH SPRING PLATE	1
906500	LATCH CYLINDER	1
906501	LATCH BACKING PLATE	1
906488	LATCH COMPRESSION SPRING	1
200002010	SCREW MACH BUTTONHEAD M10 X 1.5 X 16MM	1
200097726	SCREW MACH BUTTONHEAD M10 X 1.5 X 38MM	1

HDWR BAG F/INCL SWING SEAT 8FT TOP RAIL
902841

Code	Description	Qty.
906502	INCLUSIVE SWING CHAIN 1, 34 LINKS F/8FT	2
906118	INCLUSIVE SWING CHAIN 2, 50 LINKS F/8FT	2
903699	INCLUSIVE SWING CHAIN 3, 13 LINKS	1
200035993	SHACKLE "D" STYLE 41MM 300 S.S. (SMALL)	6
200035994	BOLT M10 X 1.5 X 27MM 300 SS 6-LOBE(SM)	6

HDWR BAG F/INCL SWING SEAT 10FT TOP RAIL
902840

Code	Description	Qty.
903695	INCLUSIVE SWING CHAIN 1, 52 LINKS F/10FT	2
903694	INCLUSIVE SWING CHAIN 2, 68 LINKS F/10FT	2
903699	INCLUSIVE SWING CHAIN 3, 13 LINKS	1
200035993	SHACKLE "D" STYLE 41MM 300 S.S. (SMALL)	6
200035994	BOLT M10 X 1.5 X 27MM 300 SS 6-LOBE(SM)	6

AUTHORIZED BY:
Mellisa Holliday 12SEPT18



Maintenance cont.

- Check chain and seat for wear
- See Replacement Kits above for 8FT and 10FT.

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.

Arch Swing Frames with Anti-Wrap Swing Hangers

IMPORTANT! Prior to installation of any components refer to the front of the **Manufacturer's Assembly** manual and applicable safety guidelines and/or standards. The *Manufacturer's Assembly Manual* will provide important tips pertaining to **site requirements, footings, hardware** and other necessary information **vital to the success of your installation.**

Models included in this installation guide:

<u>MODEL</u>	<u>DESCRIPTION</u>	<u>PAGE</u>
200203507	Arch Swing Frame 3.5" Single Bay	4
200203508	Arch Swing Frame 3.5" Add-On	5
200203542	Arch Swing Frame 3.5" Short Bay	5
200203543	Arch Swing Frame 3.5" Add-On	6

Note:

- *Inspect equipment on a regularly scheduled basis. Refer to Playground Inspection/Maintenance and Repair Guidelines located in Installation Manual. Anti-Wrap Swing Swivel should be inspected monthly to ensure there are no worn, sharp, vandalized or rusted components. It should also be determined at this time if more grease is required to keep swivel moving freely.*
- *An (*) by a part number (CODE) indicate: Color Code Required.*

200203507 ARCH SWING FRAME 3.5" SGL BAY			
ITEM	CODE	DESCRIPTION	QTY
1	983060*	ARCHED SWING SUPRT ASY, PTD	2
2	979396*	TOP RAIL 10'-6" X 3 1/2 OD	1
3	102423	TUBE 2ml-THREADLOCKER VIBRA-TITE 12102	1
4	988278	PIN, THREADED, 5/8" OD X 4"	2
5	999046*	PARTS CARTON - TOUCH-UP PAINT-SWG LEG	1
6	994825	PARTS CARTON (2) ANTI-WRAP 3 1/2" 102422	2
7	999047*	PARTS CARTON - TOUCH-UP-PAINT-TOP RAIL	1
8	300001537	LABEL "TOP OF SURFACE" #2B3794D (4X1) R/B	1
9	200182848	LABEL ID/AGE 2-12/18MOS-12YRS.	1
10	200182851	LABEL COVER CLEAR LAMINATE	1
11	116022	LABEL WARNING - PLAYGROUND - ENGLISH	1
12	200182854	STICKER CIRCLE, AGE 2YR - 12YR	1
13	200182855	STICKER CIRCLE, AGE 18M - 12YR	1
14	HW994823-1	HRDW PKG AW7147352 S1/1	1

Arch Swing Frames with Anti-Wrap Hangers

1800046

Arch Swing Frames with Anti-Wrap Swing Hangers

200203508 ARCH SWING FRAME 3.5" ADD-ON			
ITEM	CODE	DESCRIPTION	QTY
15	983079*	ARCHED SWING SUPPORT, DBL RECEIVER, PTD	1
16	979396*	TOP RAIL 10'-6" X 3 1/2 OD	1
17	102423	TUBE 2ml-THREADLOCKER VIBRA-TITE 12102	1
18	988278	PIN, THREADED, 5/8" OD X 4"	2
19	994825	PARTS CARTON (2) ANTI-WRAP 3 1/2" 102422	2
20	300001537	LABEL "TOP OF SURFACE" #2B3794D (4X1) R/B	1
21	116022	LABEL WARNING - PLAYGROUND - ENGLISH	1
22	HW994823-1	HRDW PKG AW7147352 S1/1	1
200203542 ARCH SWING FRAME 3.5" SHORT BAY			
ITEM	CODE	DESCRIPTION	QTY
23	983060*	ARCHED SWING SUPRT ASY, PTD	2
24	991493*	TOP RAIL 7'-4" X 3 1/2" O.D.	1
25	994825	PARTS CARTON (2) ANTI-WRAP 3 1/2" 102422	2
26	300001537	LABEL "TOP OF SURFACE" #2B3794D (4X1)R/B	1
27	200182848	LABEL ID/AGE 2-12/18MOS.-12YRS.	1
28	200182851	LABEL COVER CLEAR LAMINATE	1
29	999046*	PARTS CARTON - TOUCH-UP PAINT-SWG LEG	1
30	999047*	PARTS CARTON - TOUCH-UP PAINT-TOP RAIL	1
31	102423	TUBE 2ml-THREADLOCKER VIBRA-TITE 12102	1
32	988278	PIN, THREADED, 5/8" OD X 4"	2
33	200182854	STICKER CIRCLE, AGE 2YR - 12YR	1
34	116022	LABEL WARNING - PLAYGROUND - ENGLISH	1
35	2001828554	STICKER CIRCLE, AGE 18M - 12YR	1
36	HW994823-1	HRDW PKG AW7147352 S1/1	1

Arch Swing Frames with Anti-Wrap Swing Hangers

200203543 ARCH SWING FRAME 3.5" SHORT BAY ADD-ON			
ITEM	CODE	DESCRIPTION	QTY
37	991493*	TOP RAIL 7'-4" X 3 1/2" O.D.	1
38	983079*	ARCHED SWING SUPPORT, DBL RECEIVER, PTD	1
39	994825	PARTS CARTON (2) ANTI-WRAP 3 1/2" 102422	1
40	102423	TUBE 2mi-THREADLOCKER VIBRA-TITE 12102	1
41	988278	PIN, THREADED, 5/8" OD X 4"	2
42	116022	LABEL WARNING - PLAYGROUND - ENGLISH	1
43	300001537	LABEL "TOP OF SURFACE" #2B3794D (4X1)R/B	1
44	HW994823-1	HRDW PKG AW7147352 S1/1	1
PARTS CARTON (2) ANTI-WRAP 3 1/2" - PN 994825**			
45	102422	ANTI WRAP SWING HANGER 3 1/2" TOP RAIL	2
46	104403	BOLT 1/4-14 X 1 1/4 HEX WASHER TEK	8
47	102424	5/16" HEX BIT W/HOLE (TAMPER RESISTANT)	1
48	SP2008898	LOCTITE 271 RED, .02 OZ (.5ML) DISP TUBE	1
HRDW PKG AWT147352 S1/1** HW994823-1			
ITEM	CODE	DESCRIPTION	QTY
49	102424	5/16" HEX BIT W/HOLE (TAMPER RESISTANT)	1
50	104052	BOLT 3/8-16 X 5/8 BHCS 6 LOBE 18-8 SS	4
51	104480	BIT 6 LOBE T-45 FOR 3/8 BOLTS	1
52	117003	WASHER 5/16 FLAT 18-8 SS	4
(**)	NOTE: USED FOR <i>ALL</i> MODELS		

Arch Swing Frames with Anti-Wrap Hangers

1800046

Arch Swing Frames with Anti-Wrap Swing Hangers

I800046
Model 200203507
Arch Swing Frame 3.5" Single Bay

Top View

Footing Layout

18" DIA. X 18" DEEP FOOTING (4) REQ'D

Detailed description: This block contains technical drawings and a 3D rendering for the Arch Swing Frame 3.5" Single Bay. It includes a top view showing a horizontal bar with four hangers, a footing layout showing four circular footings in a 2x2 grid with a 11-foot width and 3-foot-6-inch height, and a 3D perspective view of the frame. The model number is I800046 and the part number is Model 200203507.

I800046
Model 200203508
Arch Swing Frame 3.5" Add-On

Top View

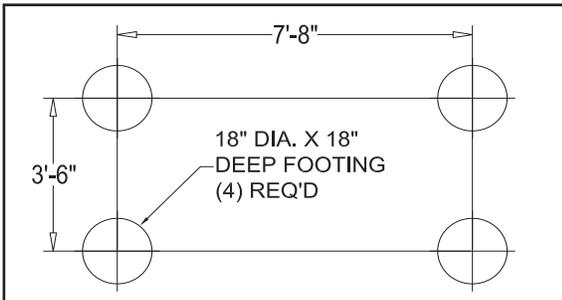
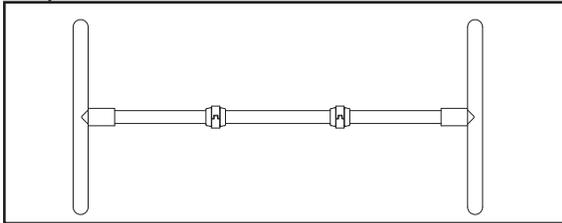
Footing Layout

18" DIA. X 18" DEEP FOOTING

Detailed description: This block contains technical drawings and a 3D rendering for the Arch Swing Frame 3.5" Add-On. It includes a top view showing a horizontal bar with four hangers and a central cross-section, a footing layout showing four circular footings in a 2x2 grid with a 11-foot width and 3-foot-6-inch height, and a 3D perspective view of the frame. The model number is I800046 and the part number is Model 200203508.

Arch Swing Frames with Anti-Wrap Swing Hangers

Top View

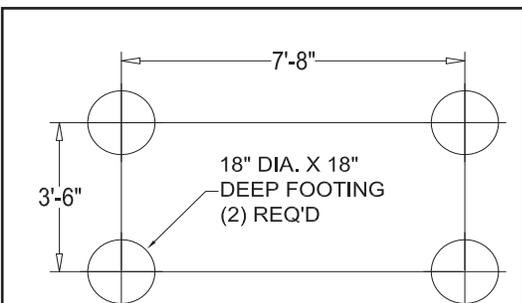
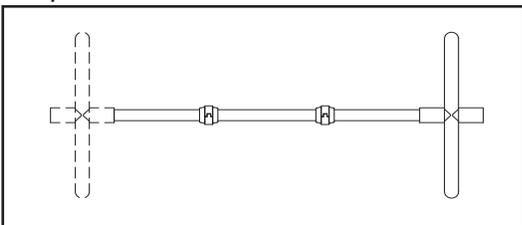


Footing Layout

1800046
Model 200203542
Arch Swing Frame 3.5" Short Bay



Top View



Footing Layout

1800046
Model 200203543
Arch Swing Frame 3.5" Short Bay Add-On



Arch Swing Frames with Anti-Wrap Hangers

1800046

Arch Swing Frames with Anti-Wrap Swing Hangers

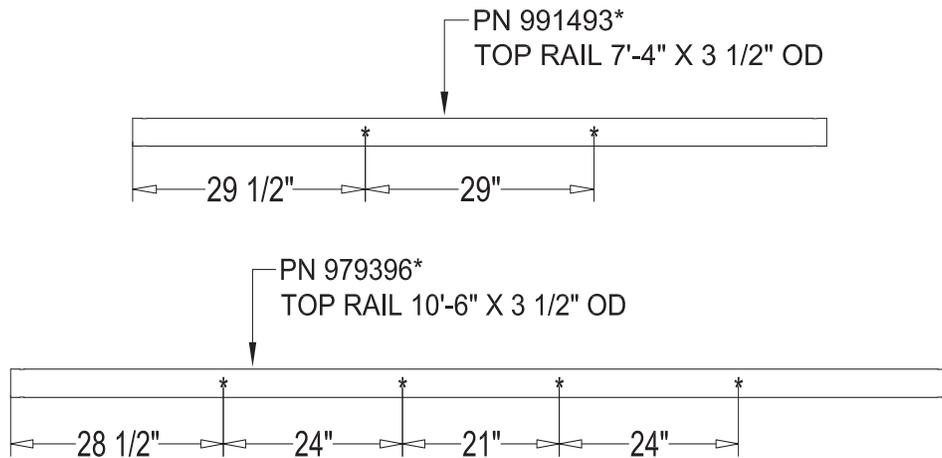
STEP 1 DIG FOOTINGS

- 1a. Dig footings per *Footing Layout*, Construction Drawings and *Footing Details* installation. Place blocking material in bottom of footing holes.

Note: Do not pour concrete for footings until model is fully assembled per instructions and braced in position, leveled and plumbed.

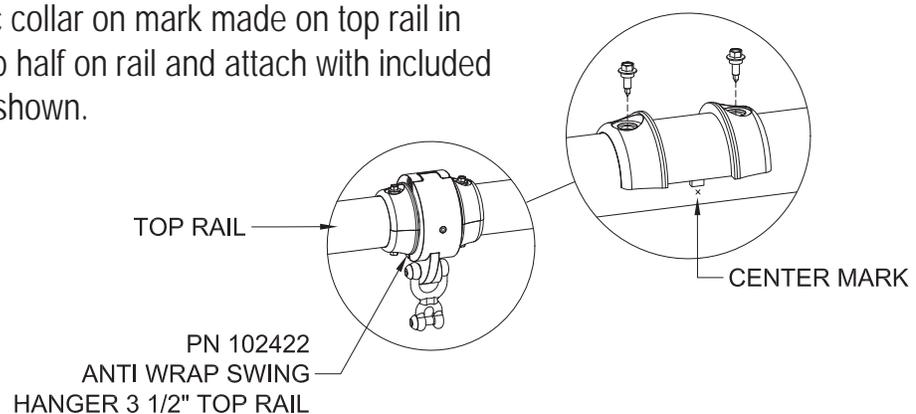
STEP 2 MARK TOP RAIL FOR HANGER PLACEMENT

- 2a. Mark top rails for anti-wrap swing hanger placement. Measure from end of top rail to center of anti-wrap swing hanger.



STEP 3 ASSEMBLE AND ATTACH ANTI-WRAP WING HANGERS

- 3a. Locate anti-wrap swing hanger. Remove H-shackle using a wrench with pin hole to remove tamper proof bolt and set bolt aside. Open hanger into halves and remove plastic collar.
- 3b. Center plastic collar on mark made on top rail in step 2; set top half on rail and attach with included hardware as shown.

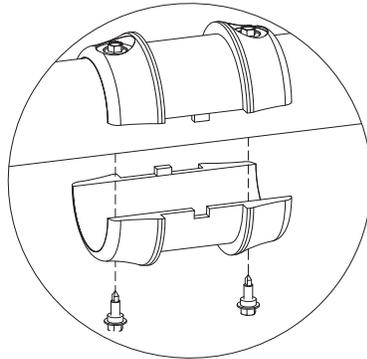


Arch Swing Frames with Anti-Wrap Swing Hangers

STEP 3 ASSEMBLE AND ATTACH ANTI-WRAP WING HANGERS cont.

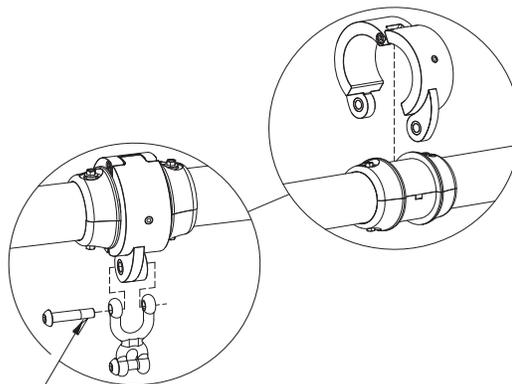
3c. Repeat with bottom collar half.

Note: Plastic collar halves will NOT COMPLETELY MATE on top rail. Align tab with notch and ensure gap between collar halves is equal on both sides of top rail.



3d. Place steel hanger around plastic collar; apply Vibra-Tite Threadlocker to end of tamper proof bolt; attach H-shackle to hanger via tamper proof bolt; tighten all hardware.

Note: Using a grease gun, place a sufficient amount of all purpose grease into grease fitting, to allow hanger to swing freely.



PN 102423
TUBE 2ml-THREADEDLOCK
VIBRA-TITE 12102

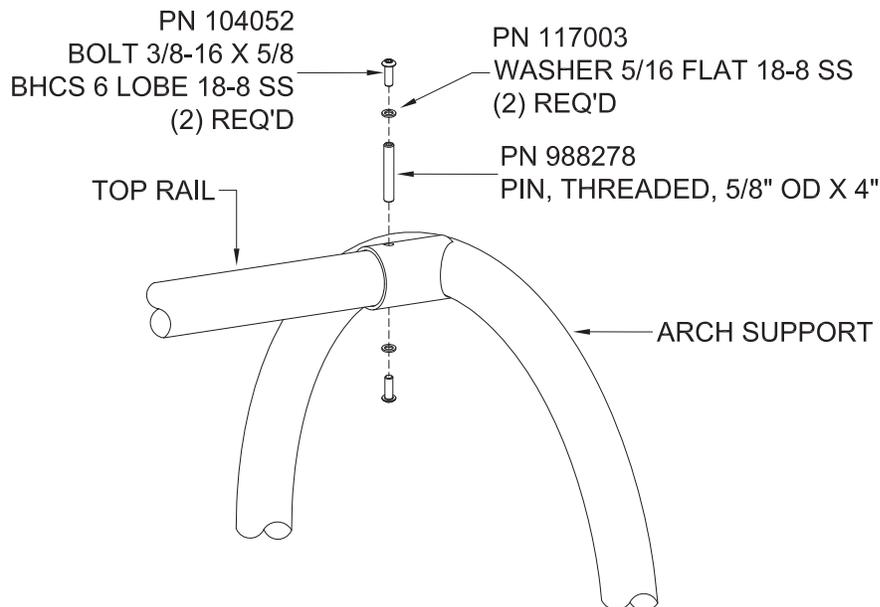
Arch Swing Frames with Anti-Wrap Swing Hangers

STEP 4 FASTEN TOP RAIL TO ARCHES

- 4a. Set arches on ground with stubs facing each other. Firmly seat ends of top rail within each arch stub, aligning mating bolt holes. Ensure that weldments for clevises are on underside of top rail assembly, for later attachment of swing chains and seats.

Install Tip: Once top rail is in stub, all four (4) bolt holes must be aligned. If necessary for alignment, run a 11/16" drill bit through all four (4) holes. Do not allow bit to wander, creating a larger hole.

- 4b. Install a bolt and washer in one end of threaded pin and tap through top rail and arch stub, then install a bolt and washer on opposite side. Repeat at other end of top rail.



STEP 5 SET SWING FRAMES INTO FOOTINGS

- 5a. Lift frame assembly and set in footings. Ensure that arches are plumb and that the top rail is level. Block in position so that bottom surface of top rail is **96"** (8'-0") from finished grade.

Arch Swing Frames with Anti-Wrap Swing Hangers

STEP 6 POUR CONCRETE

- 6a. Rope off area to prevent access and pour concrete.
- 6b. Install age appropriate labels per "Placement of Age Appropriate Labels" located in the *Installation Manual*.

Important Note: Do not hang swing chains and seats until concrete has fully cured per concrete manufacturer's instructions (usually 72 hours) and protective surfacing is installed to avoid risk of injury to users and damage to play equipment.

FINAL STEP

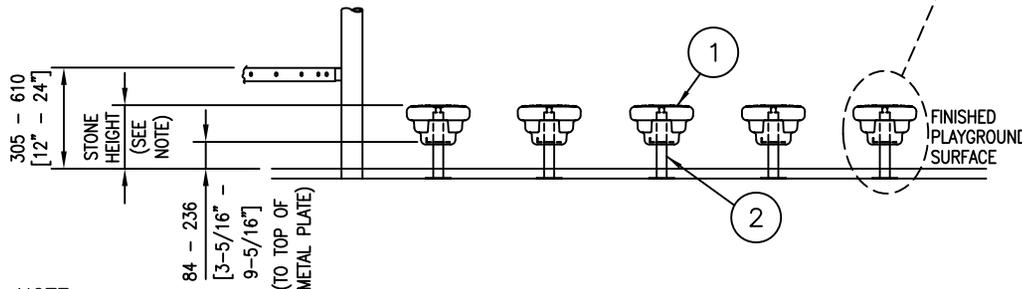
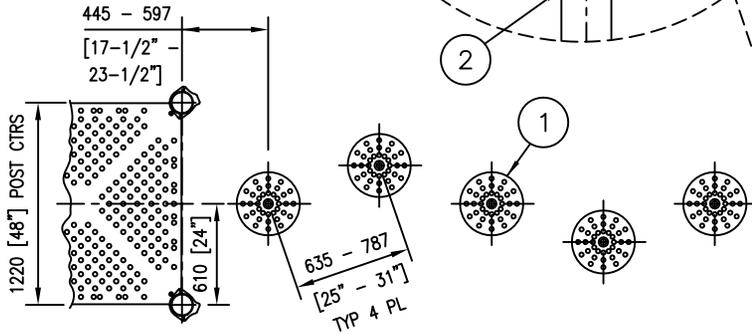
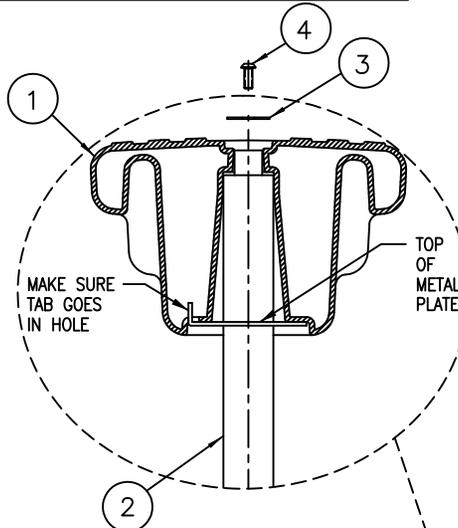
Proceed with *Final Assembly installation*.



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.

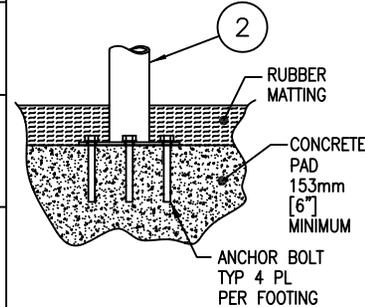
STEPS

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

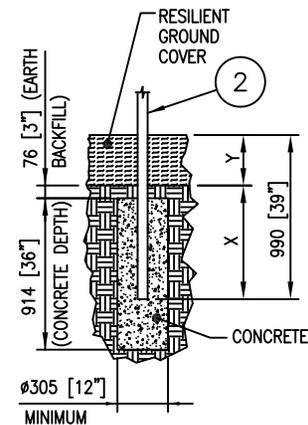
FASTENERS

FINISH: STAINLESS STEEL (METRIC).

Surface Mount Footing Detail



Inground Footing Detail



X PLUS Y = 990mm



KID RIDERS C-SPRING

R800005B

Sheet 1 of 3

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. Once the type of footing is determined, refer to Sheet 2 for information on how to prepare it. 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 – Surface Mount Footing

1. Prepare footing hole as shown on page 2 (or prepare to pour a concrete pad).
Pre-assemble the J-Anchors (Item 17) to the template (Item 16) as shown in DETAIL 1.
1. Pour footing. Before the footing has cured to a hardened state, press the J-Anchors into the concrete noting the orientation. Let the concrete finish curing (minimum of 48 hours). Remove the washers and nuts and then the template.
2. Place C-Spring on the front anchor bolt and then install the strap and hardware as shown in DETAIL 2.
3. Attach the kid rider event to the C-Spring as shown on page 3 of this installation instruction.
4. Check all hardware for tightness and install resilient surfacing.

Installation Instruction – Inground Footing

1. Prepare inground footing hole as shown on page 2. Place Inground Tube (Item 2A) into the footing hole and prop up (NOTE: twist the tube to ensure that the orientation of the spring animal is as desired. If a line were drawn between the middle holes of the top plate, that line would be the direction the event would face. Complete the footing. Let the concrete cure (minimum of 48 hours).
2. Place C-Spring onto the top plate of the inground footing and attach the single front bolt as shown in DETAIL 1. Next install the strap and hardware also as shown in DETAIL 1.
3. Attach the kid rider event to the C-Spring as shown on page 3 of this installation instruction.
4. Check all hardware for tightness and install resilient surfacing.

- ATV BLU/YLW W/C-SPRING – 200200447
- ATV RED/BLU W/C-SPRING – 200200448
- BULLDOZER YLW/BLU W/C-SPRING – 200200449
- WHALE BLU W/C-SPRING – 200200450
- WHALE RED/TAN W/C-SPRING – 200200451

Item	Code	Description	Qty.
1A	200149041	ATV ASSY BRW/BLU F/C-SPRING	1
1B	200149042	ATV ASSY BLU/YLW F/C-SPRING	1
2	200149043	BULLDOZER ASSY YLW/BLU F/C-SPRING	1
3A	200149044	WHALE ASSY RED/TAN F/C-SPRING	1
3B	200149045	WHALE ASSY BLU/BLU F/C-SPRING	1
4	200149035	TUBE MT. F/KR C-SPRING ING BLACK	1
5	200149521	KIT F/KR SURF MT. C-SPRING	1
6	200183517	SPRING "C" F/SPRING RIDERS BLACK/STKR	1
7	200149520	HDWR BAG F/KR W/C-SPRING	1

HDWR BAG F/KR W/C-SPRING 200149520

Item	Code	Description	Qty.
8	200002096	WASHER FLAT M10 34 OD X 11 ID X 3MM SS	16
9	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	7
10	200149033	STRAP F/C-SPRING MOUNT BLK-PARTS ROOM	1
11	200002150	SCREW MACH BUTTON HEAD M10 X 1.50 X 55MM	2
12	200097726	SCREW MACH BUTTONHEAD M10 X 1.5 X 38MM	1
13	200002030	SCREW MACH BUTTON HEAD M10 X 1.50 X 30MM	4
14	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	4

KIT F/KR SURF MT. C-SPRING 200149521

Item	Code	Description	Qty.
15	200001938	NUT HEX M10 X 1.50 S.S.	3
16	200149522	TEMPLATE STEEL F/C-SPRING	1
17	200001780	BOLT ANCHOR BENT M10 X 1.50 X 250MM (SS)	3
18	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	3

How Much Concrete?

Volume of concrete required for footings:

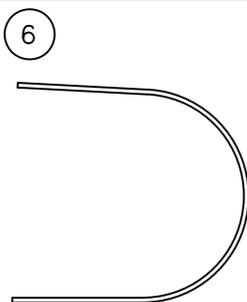
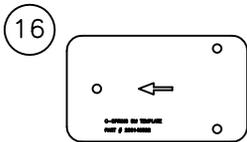
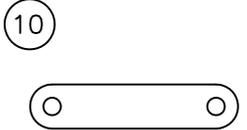
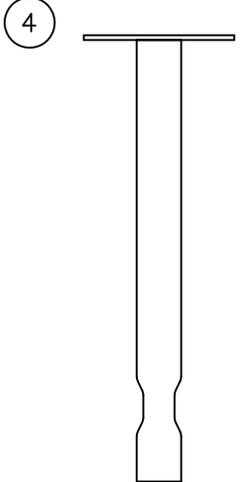
$$= 0.067 \text{ M}^3 \times \left\{ \frac{\text{Concrete Depth (mm)}}{915} \right\} \times \text{No. of Footing Holes} = \text{M}^3$$

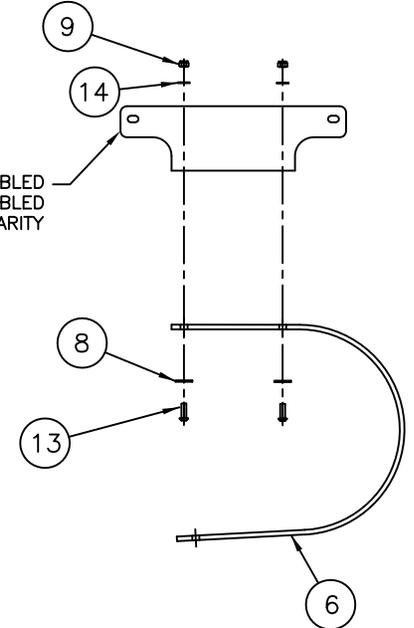
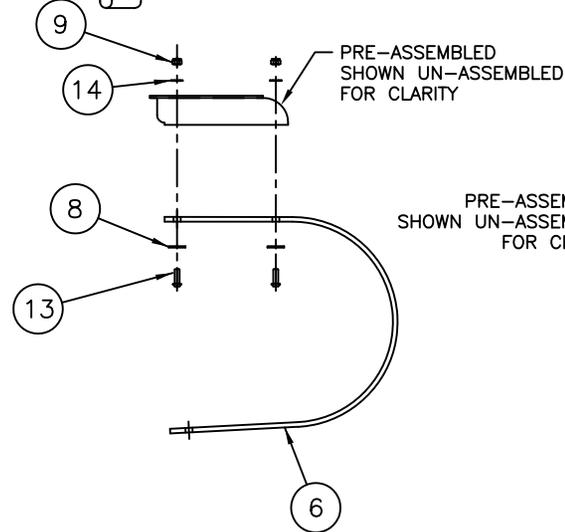
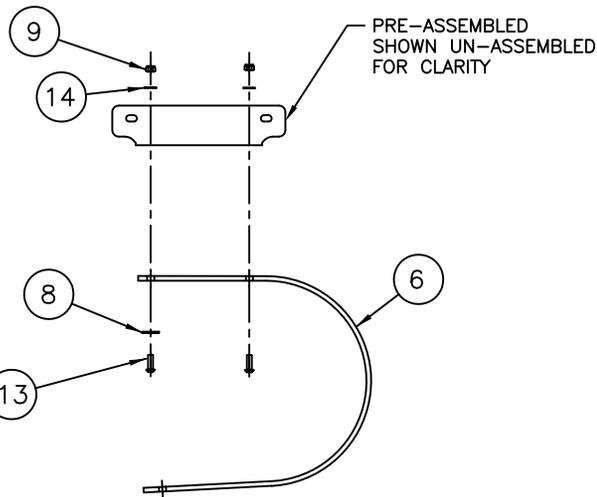
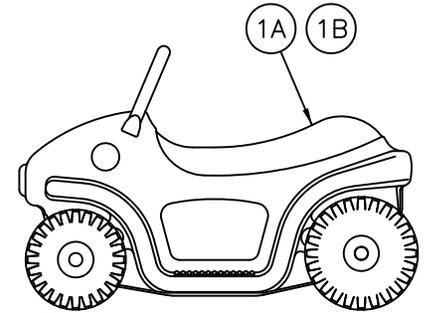
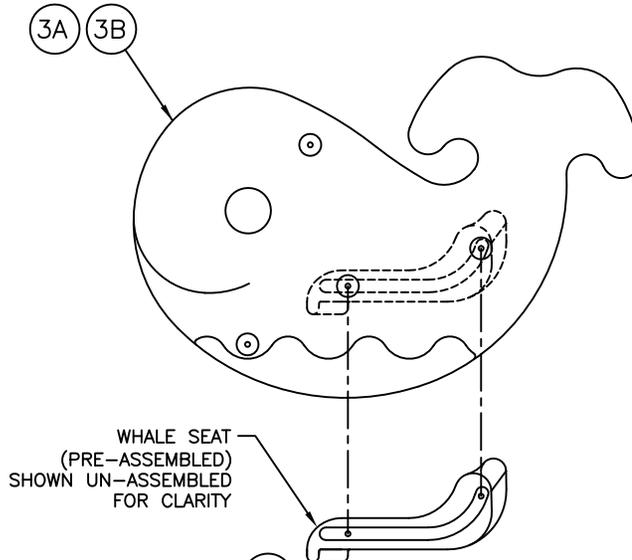
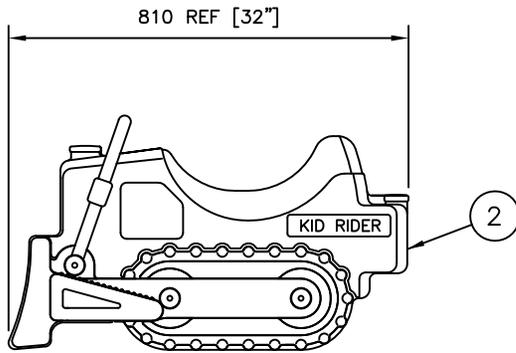
$$= 0.087 \text{ Yard}^3 \times \left\{ \frac{\text{Concrete Depth (in)}}{36} \right\} \times \text{No. of Footing Holes} = \text{Yard}^3$$

NOTES:

1. To calculate cubic feet, multiply cubic yard by 27.
2. 94 lbs. of concrete = 1 cubic foot.

AUTHORIZED BY: 10NOV17
Tracy Archer





Make sure open part of C-Spring faces the same direction as front of RIDER.





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

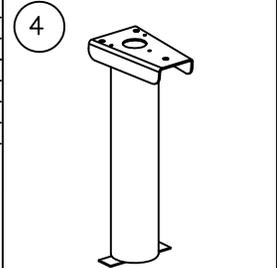
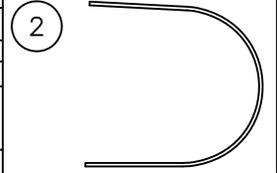
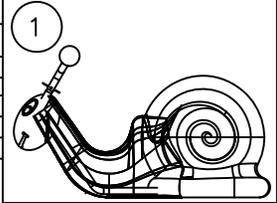
Item	Code	Description	Qty.
6	993161GV	PINCH PLATE-C SPRING RIDERS GV 6-1/16"	1
7	HW993176	HRDW PKG 963 S1/1	1

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?

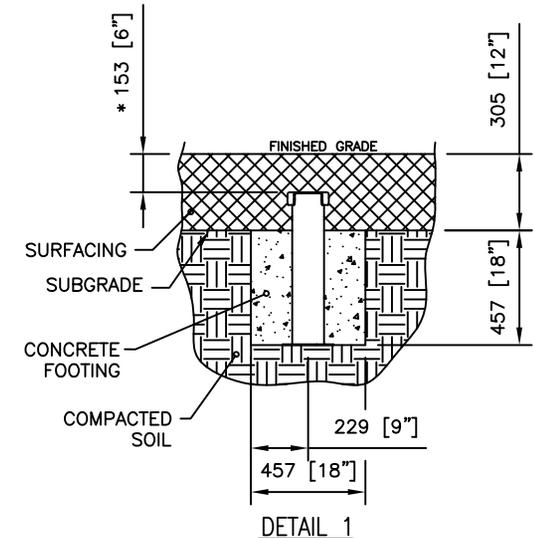
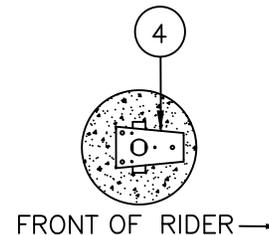
$$\text{Volume of concrete required for footings:} = 0.067 \text{ M} \times \frac{\text{Concrete Depth (mm)}}{915} \times \text{No. of Footing Holes} = \text{M}^3$$

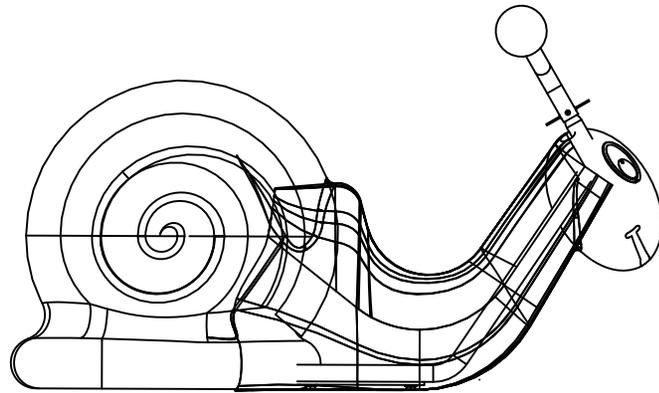
$$= 0.087 \text{ Yard} \times \frac{\text{Concrete Depth (in)}}{36} \times \text{No. of Footing Holes} = \text{Yard}^3$$

NOTES:

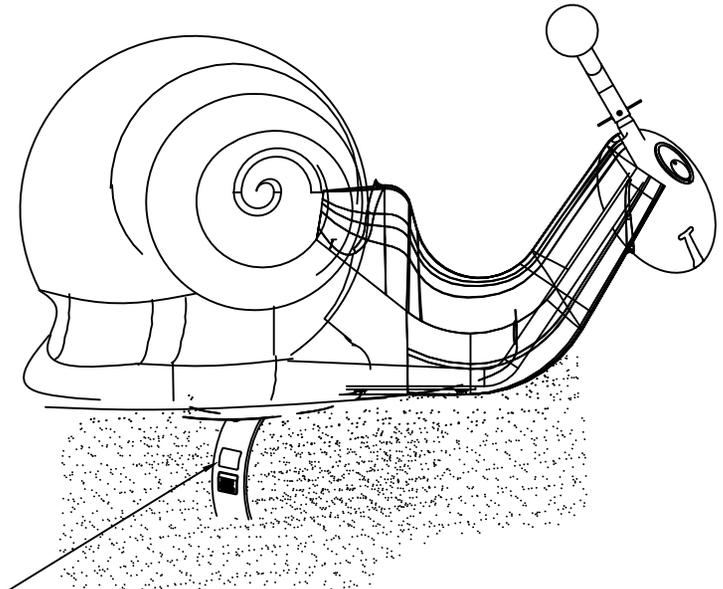
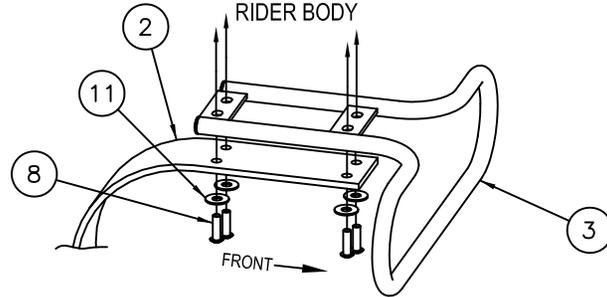
1. To calculate cubic feet, multiply cubic yard by 27.
2. 94 lbs. of concrete = 1 cubic foot.

FOOTING LAYOUT FOR SNAIL

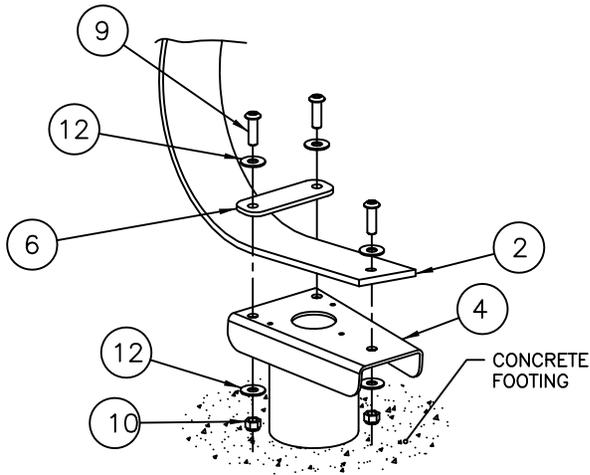




BOTTOM OF
RIDER BODY



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.





Project Number: R0324200140

PlayArea: Additional Items |

Project Name:

Project Location:

Sales Representative:

Northland Recreation
10085 Bridgewater Bay
Woodbury, MN 55129
2623138636

Installation Instructions

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

Date: 2/19/2020 12:00:00 AM



PRODUCT IDENTIFICATION LABEL

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

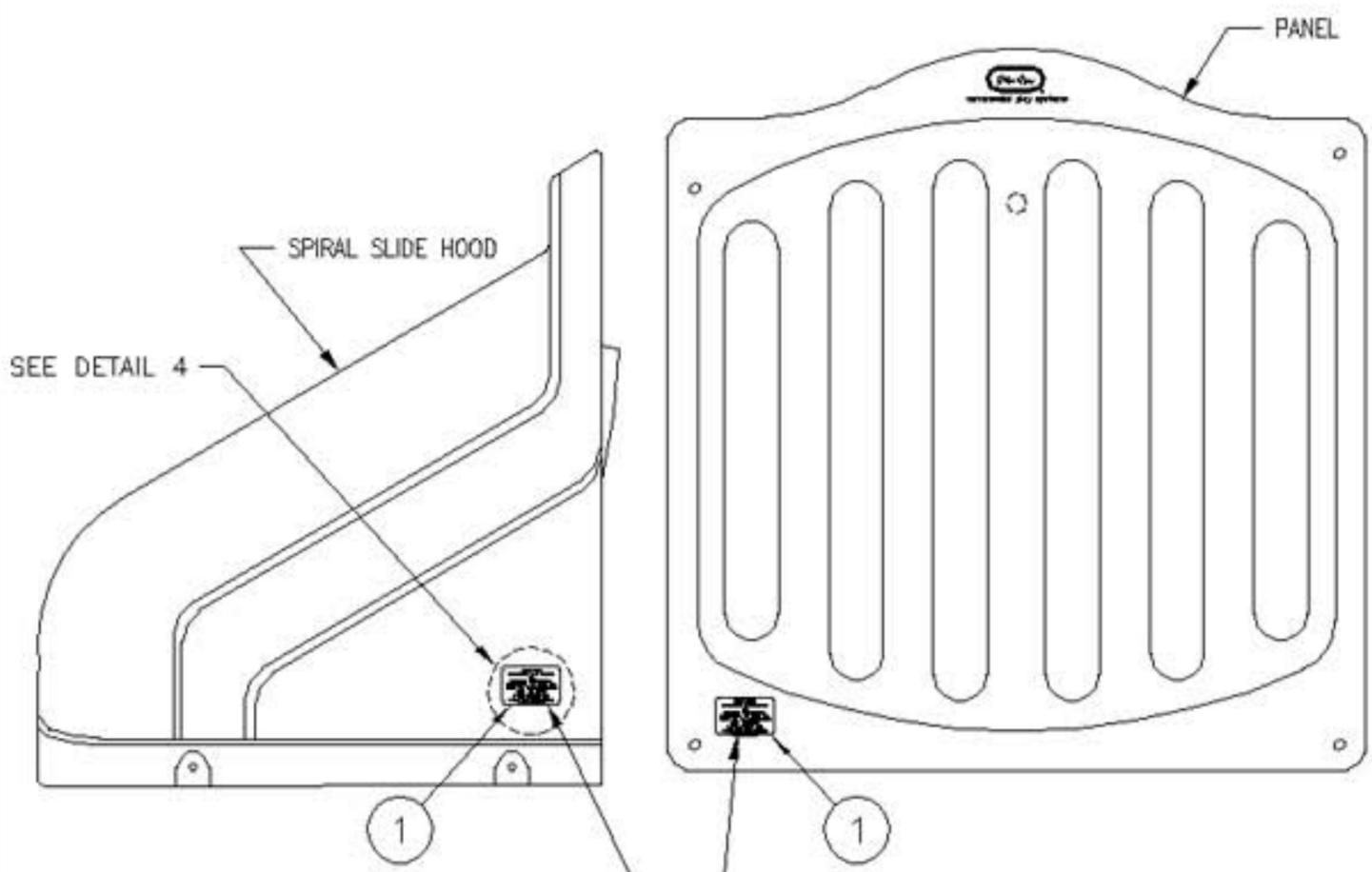
Application
This product identification label is an important part of your structure. It will provide key information for replacement parts and any warranty issues.

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.

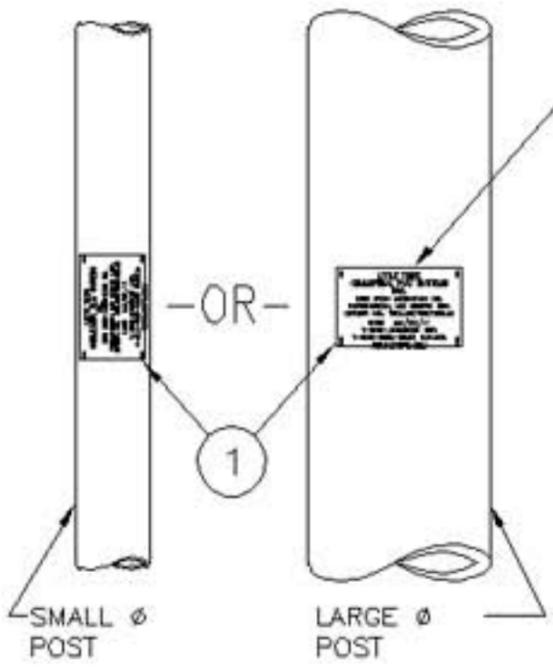
LITTLE TIKES
COMMERCIAL PLAY SYSTEMS
INC.
ONE IRON MOUNTAIN DR.
FARMINGTON, MO 63640 USA
ORDER NO. 123456789012345
DATE MM/DD/YY
1-800-325-8828 USA
1-800-265-9953 CANADA
WWW.LTTIKES.COM



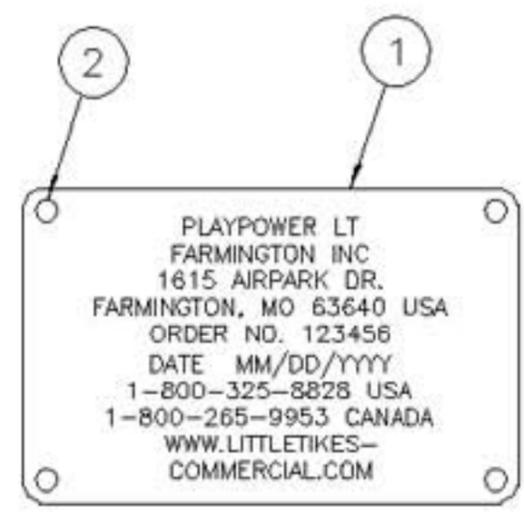
DETAIL
1

DETAIL
2

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



DETAIL
3



DETAIL
4

1

2



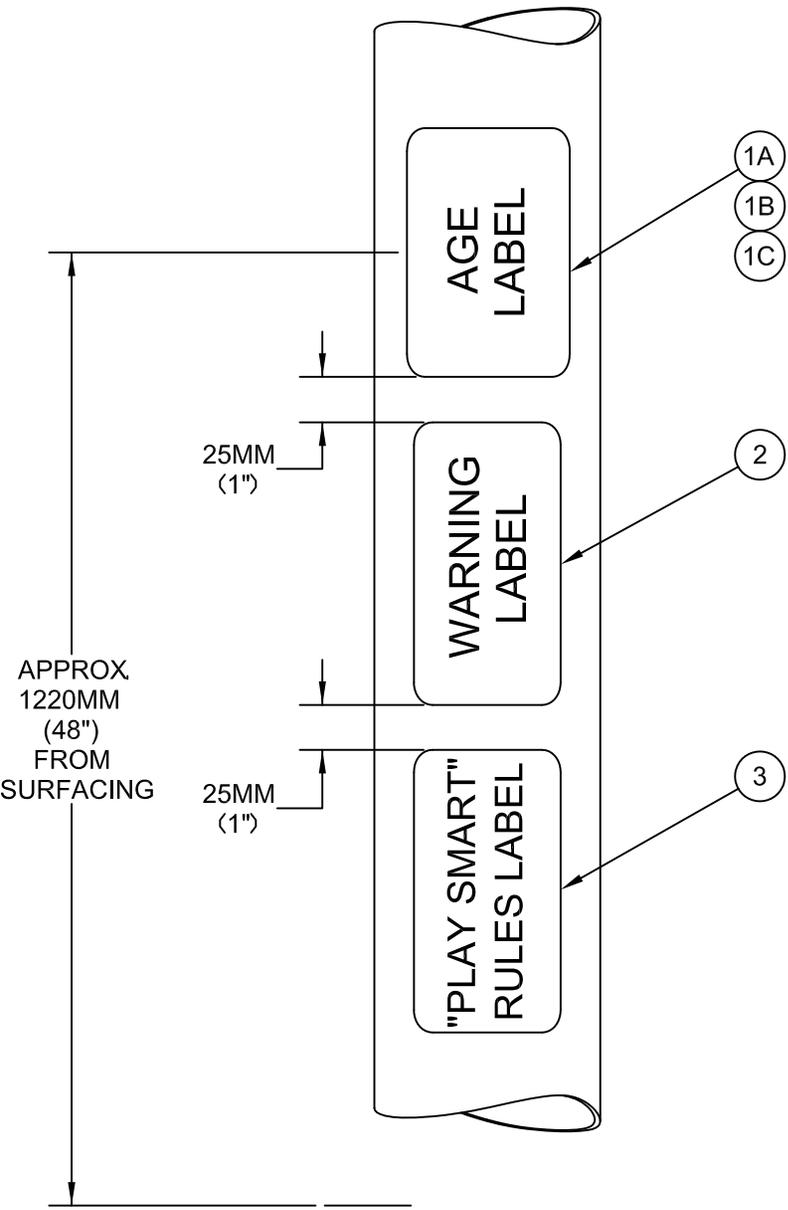


commercial play systems

AGE APPROPRIATE LABELS

1000005B

Sheet 1 of 1



AGE APPROPRIATE LABEL (2 TO 5 YRS) 200104304

Item	Code	Description	Qty.
1A	200104304	LABEL AGE APP. (2 TO 5 YRS.)	1
2	116022	LABEL WARNING - PLAYGROUND - ENGLISH	1
3	116099	LABEL, PLAY SMART RULES	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.

AUTHORIZED BY: 03JUL18
TRACY ARCHER

1A



1B



1C





Project Number: R0324200140

PlayArea: RiskSign_Included | Park Service

Project Name:

Project Location:

Sales Representative:

Northland Recreation
10085 Bridgewater Bay
Woodbury, MN 55129
2623138636

Installation Instructions

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

Date: 2/19/2020 12:00:00 AM

Risk Management Sign

IMPORTANT! The Risk Management 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>
787	Risk Management Sign - English
787FR	Risk Management Sign - French
787SP	Risk Management Sign - Spanish



Note:

- *English version shown.*
- *An (*) by part numbers indicate: Color Code Required.*

Risk Management Sign

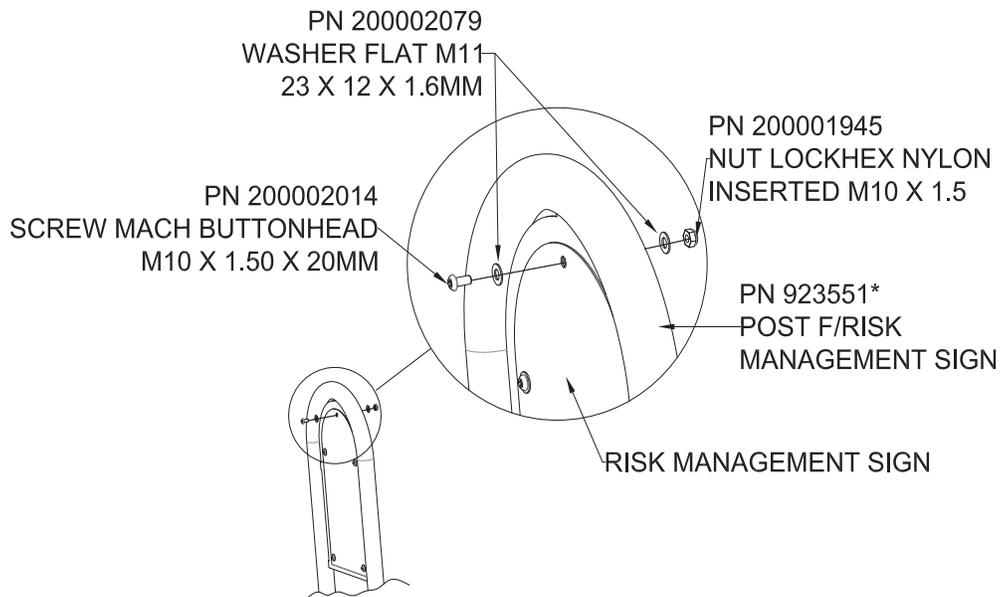
STEP 1 ATTACH AGE-APPROPRIATE STICKER

1a. Attach age-appropriate sticker to sign, in location, as shown below.



STEP 2 ATTACH SIGN TO POST FRAME

2a. Attach sign as shown below, in five (5) locations.

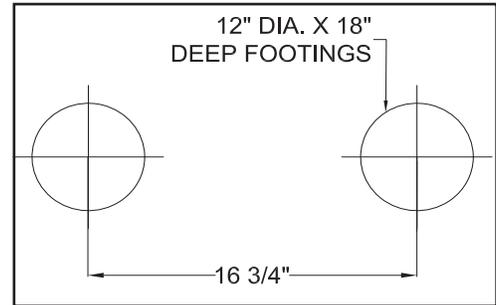


Risk Management Sign

STEP 3 DIG FOOTINGS

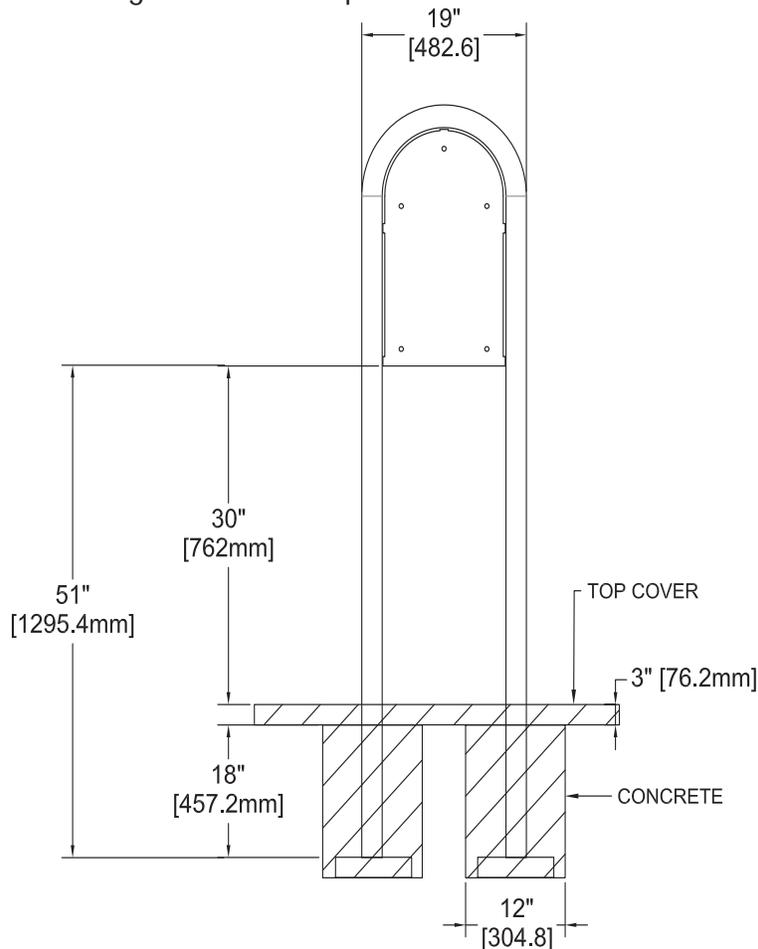
3a. Dig footings per *Footing Layouts*, *Construction Drawings*, and *Footing Details* installation.

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.



STEP 4 SET SIGN IN FOOTINGS - OUTSIDE PLAY AREA

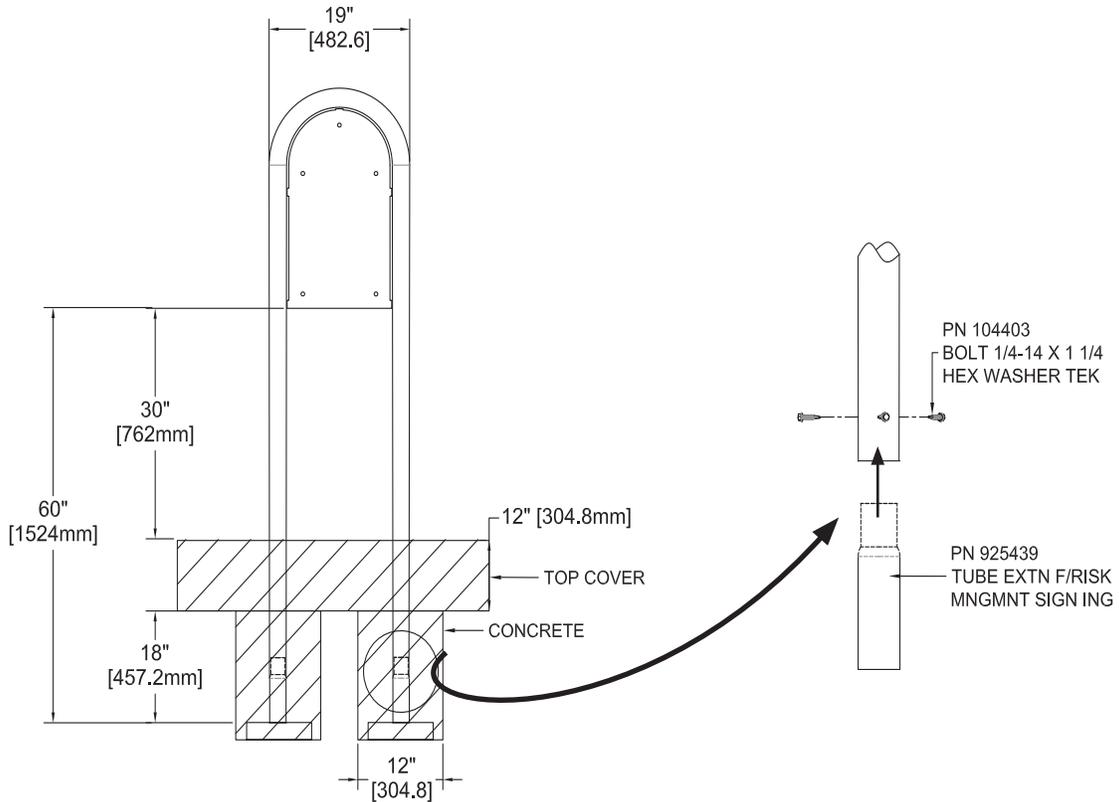
- 4a. Place a brick in the bottom of each hole so the sign will rest on the brick when inserted.
- 4b. Set risk management sign in footings per *Construction Drawings* pour concrete; plumb sign in footings and brace in position until concrete is cured.



Risk Management Sign

STEP 5 SET SIGN IN FOOTINGS - INSIDE PLAY AREA

- 5a. Place a brick in the bottom of each hole so the sign will rest on the brick when inserted.
- 5b. Insert the 10" tube extension into the risk management sign; use a rubber mallet, if needed, to swage the extensions for a tight fit; secure with Tek screws.
- 5c. Set the sign in the footings per Construction Drawings and 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.

Risk Management Sign

Bill of Material

Model 787

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	923551*	POST F/RISK MANAGEMENT SIGN
1	923560	PC F/787 RISK MNGMT ENGLISH
1	925441	PARTS CARTON RISK MNGMNT SIGN EXTN
1	HW923551-1	HRDW PKG RISK MANAGEMENT SIGN S1/1

Parts Carton 925441

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
2	925439	TUBE EXTN F/RISK MNGMNT SIGN ING
6	104403	BOLT 1/4-14 X 1 1/4 HEX WASHER TEK

HW923551-1

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
5	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM
10	200002079	WASHER FLAT M11 23 X 12 X 1.6MM
5	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5

Model 787FR

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	923551*	POST F/RISK MANAGEMENT SIGN
1	923558	PC F/787FR RISK MNGMT FRENCH
1	925441	PARTS CARTON RISK MNGMNT SIGN EXTN
1	HW923551-1	HRDW PKG RISK MANAGEMENT SIGN S1/1

Parts Carton 925441

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
2	925439	TUBE EXTN F/RISK MNGMNT SIGN ING
6	104403	BOLT 1/4-14 X 1 1/4 HEX WSHER TEK

HW923551-1

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
5	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM
10	200002079	WASHER FLAT M11 23 X 12 X 1.6MM
5	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5

Risk Management Sign

Bill of Material cont.

Model 787SP

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
1	923551*	POST F/RISK MANAGEMENT SIGN
1	923559	PC F/787SP RISK MNGMT SPANISH
1	925441	PARTS CARTON RISK MNGMNT SIGN EXTN
1	HW923551-1	HRDW PKG RISK MANAGEMENT SIGN S1/1

Parts Carton 925441

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
2	925439	TUBE EXTN F/RISK MNGMNT SIGN ING
6	104403	BOLT 1/4-14 X 1 1/4 HEX WSHR TEK

HW923551-1

<u>QTY</u>	<u>PART</u>	<u>DESCRIPTION</u>
5	200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM
10	200002079	WASHER FLAT M11 23 X 12 X 1.6MM
5	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5