

INSTALLATION DETAILS

• Recommended crew (Adult): 2-3

 Installation time: 12 Hours not including concrete cure time

• User age: 5-12

■ Use zone: 20' Diameter

• Weight: **1391**

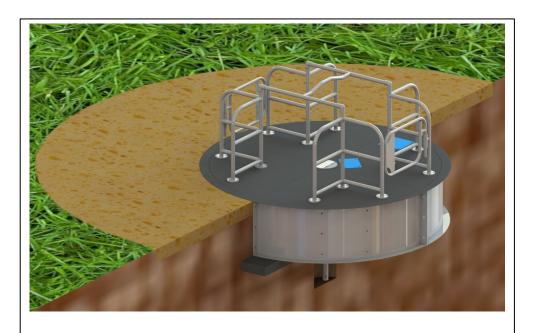
Actual Dimension: 96" Diameter

MAINTENANCE:

- As the owner of the playground you are responsible for maintenance of the equipment and play area. A maintenance schedule must be developed, and the equipment inspected frequently. Periodic Inspections, maintenance, repair and replacement of damaged parts is necessary for the safe operation and use of the equipment.
- A maintenance section that includes component specific maintenance requirements is included at the end of this document.

WARNING

Use of <u>Solid Rubber</u> safety surfacing (pour in place/mats) in compliance with ASTM specification F1292 is required.



IMPORTANT

UNIT IS DESIGNED FOR <u>POUR IN PLACE RUBBER SAFETY</u>
<u>SURFACING OR RUBBER MATS</u>. USE OF ANY OTHER
SAFETY SURFACING WILL VOID THE MANUFACTURERS
WARANTY AND COULD CAUSE AN INJURY.



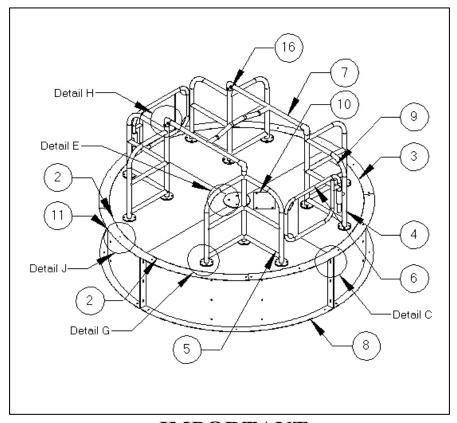
ORIGINAL PARTS LIST – REF ONLY

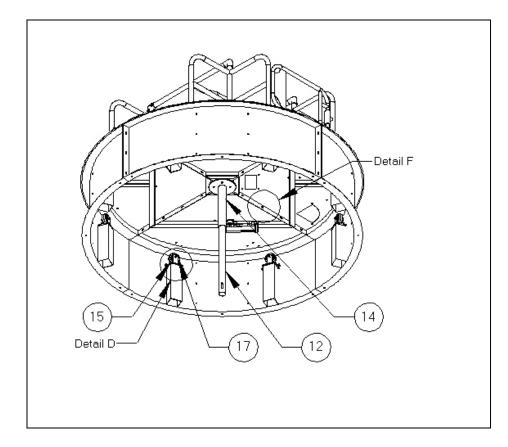
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ID	PART#	DESCRIPTION	QTY
1	913-807-L	ADA 8' QTR Deck Left	2
2	913-807-R	ADA 8' QTR Deck RT	1
3	913-807-RA	ADA 8' QTR Deck RT w	1
		/Access	
4	913-808-L	ADA Main Handrail LT	2
5	913-808-R	ADA Main Handrail RT	2
6	913-809	ADA Gate	2
7	913-810	ADA Upper Handrail	1
8	913-811	ADA Perimeter Ring Section	4
9	913-812	Perimeter Maintenance Access	1
		Panel	
10	913-815	Interior Maintenance Access	1
		Panel	
11	913-814	ADA Perimeter Ring Top Trim	4
12	913-806	8' MGR Post Assembly	1
13	336-067	Center Hub Disk for 8' MGR	1
14	913-803	8' MGR Hub Assembly	1
15	913-817	Wheel Bracket Shim	32
16	905-008	Elbow Rail Fitting	4
17	905-011	4 ½" Caster	8
18	126-810	½" x 4" Carriage Bolt	4
19	316-801Z	½" Flat Washers Zinc	4
20	226-802Z	½" Nylon Lock Nuts Zinc	4
21	336-029	1" Ball Bearing	1
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ORIGINAL PARTS LIST – REF ONLY (CONTINUED)

ID	PART#	DESCRIPTION	QTY
22	126-701 bps	3/8 x 1 1/4" Button Head Bolt	120
23	316-601	3/8" Flat Washer	160
24	226-602	3/8" Nylon Lock Nut	32
25	905-526	Self-Tapping Tamper Resistant Screws	24
26	336-062	3/8" x 4" Concrete Anchors	12
27	416-505 bpk	7/32" Socket Key	2
28	•	Hand Rail Touch-up Paint	1





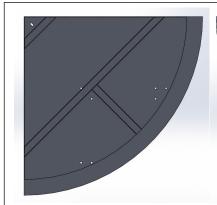


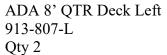
IMPORTANT

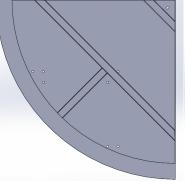
UNIT IS DESIGNED FOR <u>POUR IN PLACE RUBBER</u>
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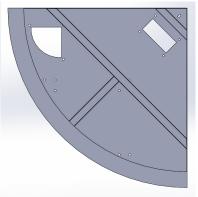




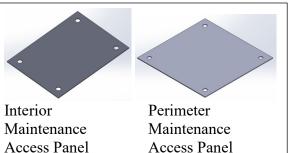




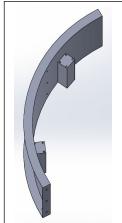
ADA 8' QTR Deck Right 913-807-R Qty 1



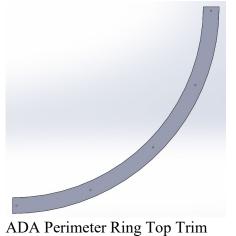
ADA 8' QTR Deck Rt w/ Access 913-807-RA Qty 1



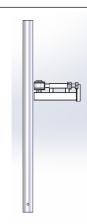
Access Panel 913-812 QTY 1



ADA Perimeter Ring Section 913-811 Qty 4



913-814 Qty 4



8' MGR Post Assy 913-806 Qty 1



8' ADA MGR **Hub Assy** 913-803 Qty 1



913-815

Qty 1

Center Hub Disk For 8' MGR 336-067 Qty 1

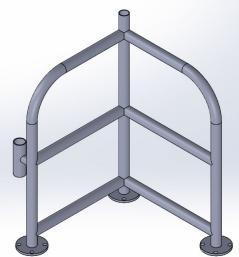


4 ½" Caster 905-011 Qty 8

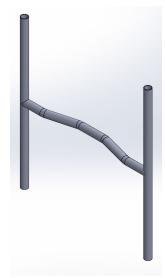




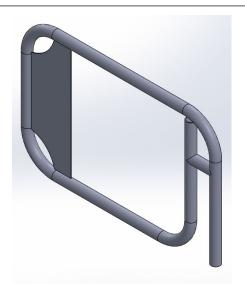
ADA Main Handrail Left 913-808-L Qty 2



ADA Main Handrail Right 913-808-R Qty 2



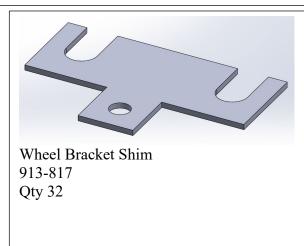
ADA Upper Handrail 913-810 Qty 1



ADA Gate 913-809 QTY 2



Elbow Rail Fitting 905-008 Qty 4



November 6, 2019 5



EXCAVATION AND FOOTING INFORMATION

Remember, the excavation depths detailed in the drawings on page 11 are based on the top of the planned safety surfacing and may not necessarily be at the same height of the current surface.

The actual size required for installing the merry go round and retaining ring is a 10' square, but we recommend a square of 12' for ease of installation.

The square hole depth in the center is 2' and is about 4 ½' deep for the merry go round post. It installs the same as a standard post, but as this unit is flush mount, the depth of that hole from the surface is greater.

Once the excavation has been completed you can install the post and drainage.

Post depth is about 4 ½' deep from the top of the planned finished height of the safety surfacing, the main excavation is a 12' square down to 2'-4", the remaining diameter for the post is 2' at the center. 2" of blocking material is planned at the bottom for the post to sit.

IMPORTANT

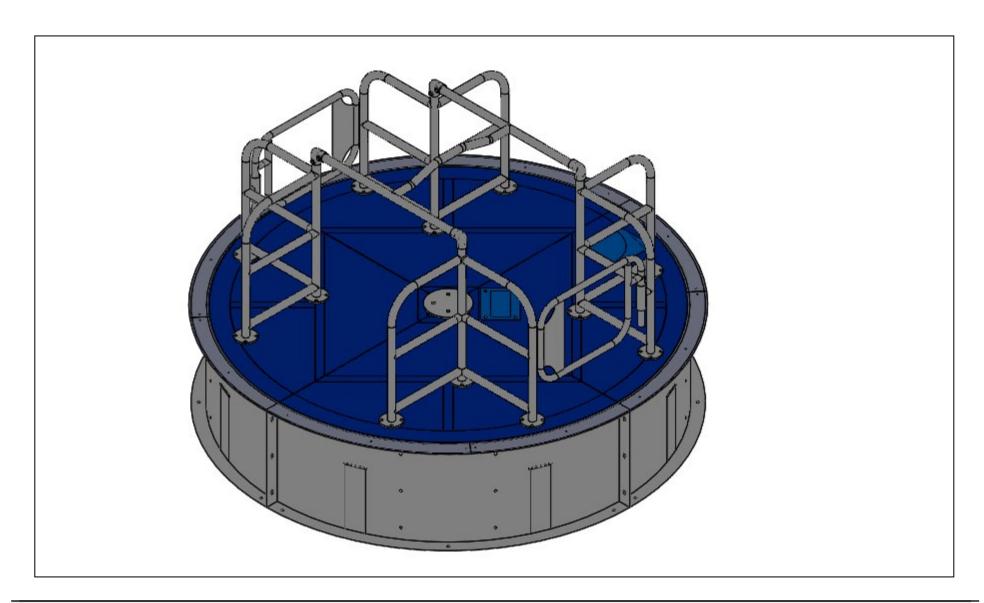
DRAINAGE

A drainage system is recommended for underneath the accessible merry go round. The area underneath the merry go round platform is recessed into the ground and may not drain naturally. Drainage should be installed below the excavated area. Suggestion: Seek a local landscaping provider for drainage options.

NOTE

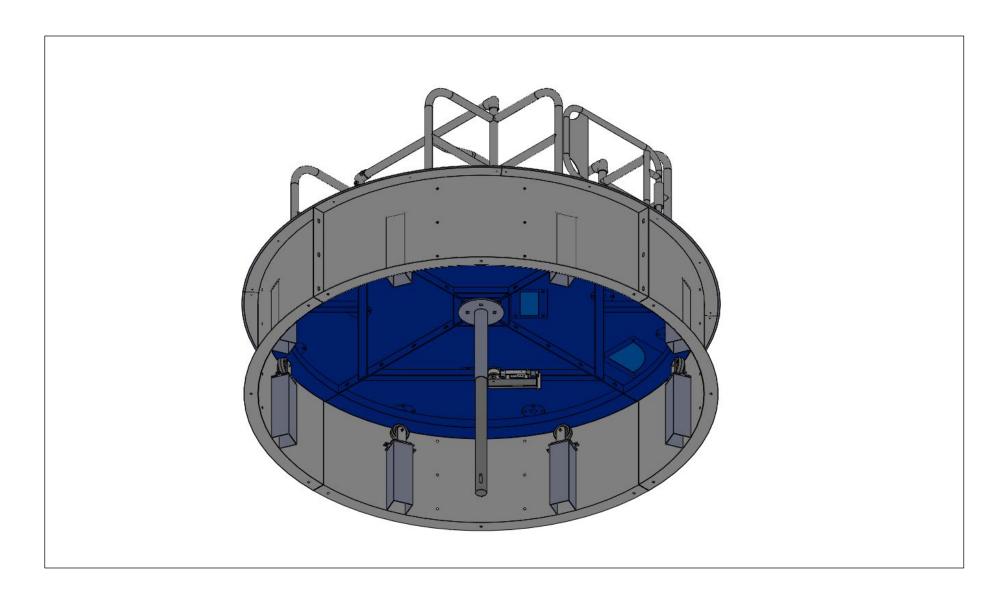
Access panels in the merry go round deck are installed for assembly/maintenance.





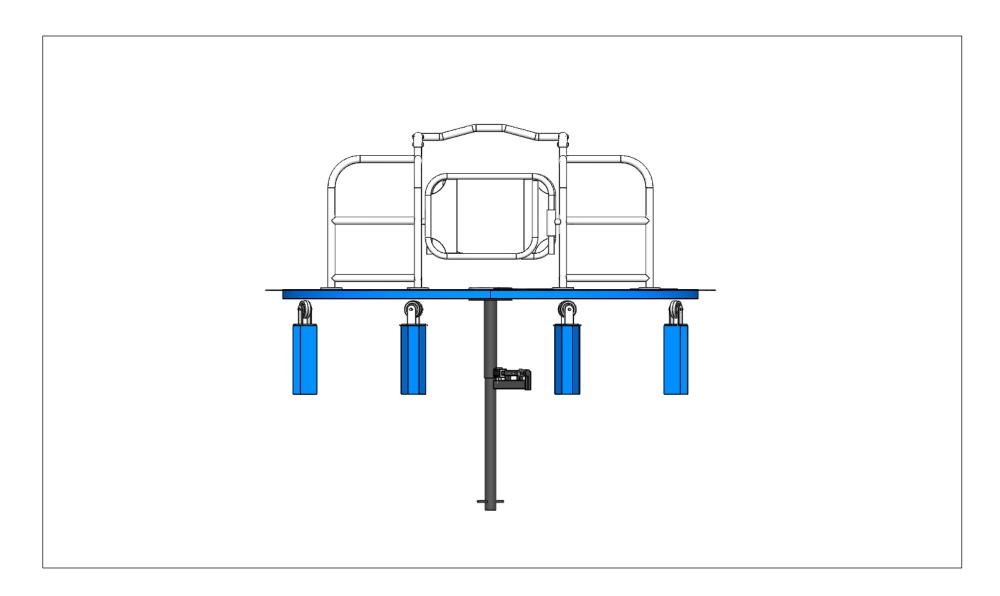
November 6, 2019 7





November 6, 2019 8







SPECIFICATIONS

- Deck 12ga HRPO welded steel deck
- Deck Coating Thermoplastic/Vinyl (depending on when ordered)
- Handrail Coating Electrostatically applied and oven cured polyester powder coating
- Post Assembly 2 1/2" OD solid steel shaft with machined pocket for bearing.

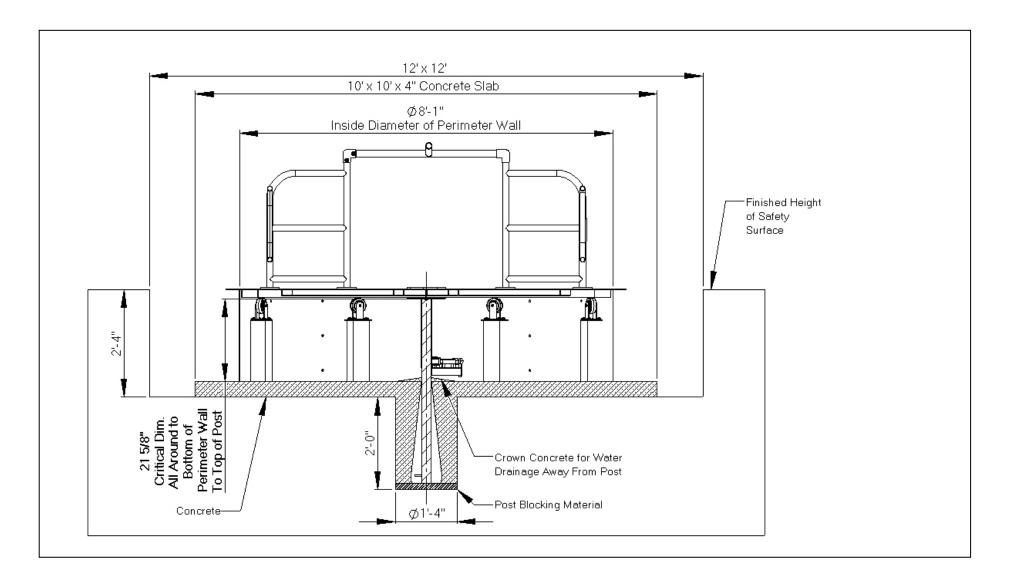
SPECIAL SAFETY & ASTM COMPLIANCE NOTES

 UNIT IS DESIGNED FOR <u>POUR IN PLACE</u>
 <u>RUBBER SAFETY SURFACING OR RUBBER</u>
 <u>MATS</u>. USE OF ANY OTHER SAFETY
 SURFACING WILL VOID THE
 MANUFACTURERS WARANTY AND COULD CAUSE AN INJURY.

INSTALLATION TIPS & TROUBLE SHOOTING

- UNIT IS DESIGNED FOR <u>POUR IN PLACE RUBBER</u> <u>SAFETY SURFACING OR RUBBER MATS</u>. USE OF ANY OTHER SAFETY SURFACING WILL VOID THE MANUFACTURERS WARANTY AND COULD CAUSE AN INJURY.
- Apply Loctite to all bolts during assembly prior to completely tightening them.
- Do not use impact gun as Stainless Steel hardware can occasionally be difficult to use particularly if you need to take them out to make an adjustment. It is recommended that you add a drop of oil to bolts that may have to be removed before you install them.
- Do not tighten bolts all the way until the unit is completely assembled, and all components are square and level.
- Identify and separate all parts by referencing the detail drawings and the parts list.
- As you unpack and separate the components, set the components on top of the cardboard sheets that were used for packing and shipping to prevent damage to the components. This is particularly true for all Powder Coated and Thermoplastic coated components.





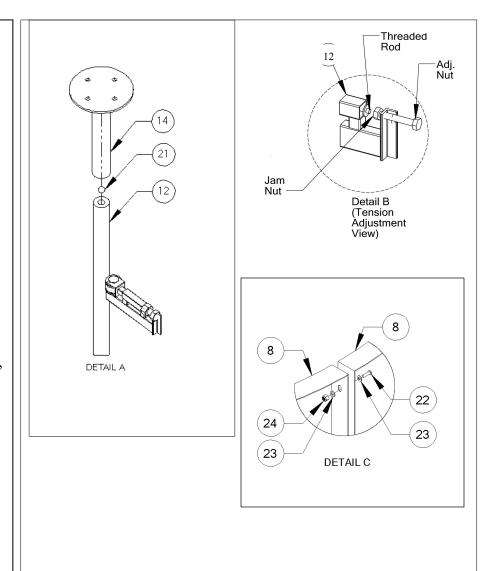


INSTALLATION STEPS

- __1. Once the desired location has been determined while keeping a 20' diameter use zone in mind, dig a 12' x 12' square hole to a depth of 28". At the center of that hole dig an additional 16" diameter hole, 2' deep for the footing (or 4 ½' from the top of the safety surfacing height). (SEE IMAGES ON PREVIOUS PAGE)
- __2. Build the 10' x 10' square retaining frame to pour the 4" concrete slab to support the merry go round perimeter wall. It is also suggested to build a 2' x 2' square retaining frame to isolate the post hole allowing the ability to adjust the alignment of the post.
- __3. When pouring concrete, pour the 10' x 10' square first without the 2' square for the post. Allow to cure.
- __4. After all loose material is removed from the hole for the post, add 2" of dry concrete and blocking material to the bottom of the hole to support the post. Place the post assembly (12) with the bearing pocket facing up and out of the hole. Plumb and level post 21 5/8" from the top of the 10' x 10' square pad. NOTE: Post must be perfectly level in all directions before adding concrete for safety and durability of the product. The top of the post needs to be 21 5/8" from the top of the concrete slab once poured.

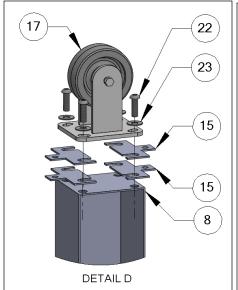


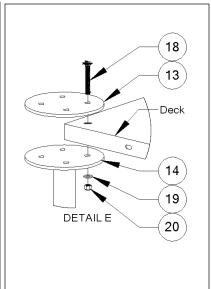
- ___5. Add concrete to hole, crown the top of the concrete down and away from the post to help prevent water build up around the post. Periodically check the post to ensure it is level while concrete is curing. Brace the post into position if necessary. Before installing remaining MGR components, wait till concrete is completely cured based on supplier's instructions. NOTE: Post must be perfectly level in all directions before adding concrete for safety and durability of the product. The top of the post needs to be 21 5/8" from the top of the concrete slab once poured.
- __6. After concrete has cured, place the Ball Bearing (21) into the pocket on the post and coat the bearing with general purpose grease. Next slide the Hub assembly (14) onto the post. (Refer to detail A)
- __7. Setup 3 of the 4 Perimeter Ring Sections (8) on the concrete slab circling the post, 4' from the post. Arrange the sections with the wheel bracket flush with the concrete. Attach sections together using 3/8" x 1 ½" Button Head Bolts (22), 3/8" Flat Washers (23), and 3/8" Nylon Lock Nuts (24). Hand tighten bolts, only. Permanently tightening of these bolts will happen in step 23. Tightening now may warp the flange of the perimeter wall in the following steps. Only assembling 3 of the 4 allows easier access to assemble the decks. (Refer to detail C)

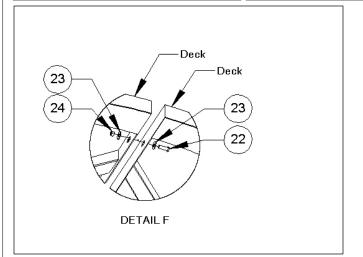




- __8. Attach the 4 ½" Casters (17) to the Perimeter Ring Sections (8) using 3/8" x 1 ¼" Button Head Bolts (22) and 3/8" Flat Washers (23). Insert Wheel Bracket Shims (15). Factory installed rivet nuts are on the Perimeter Wall's wheel bracket for easy assembly. Do not tightened. (**Refer to detail D**)
- __9. Set a Right QTR Deck (2) onto the Hub Assembly (14) and the casters (17) already attached to the Perimeter Ring Section (8). Attach the Center Hub Disk (13) and the QTR Deck to the Hub Assembly (14) using a ½" x 4" Carriage Bolt (18), a ½" Flat Washer (19), and a ½" Nylon Lock Nut (20). (Refer to detail E)
- __10. Level the deck by adjusting shims. This 1st deck will determine number of shims required for each caster assuming the concrete is level. Tighten the carriage bolt.
- __11. Set a Left QTR Deck (1) on each side of the Right QTR Deck (2). Repeat step 9.



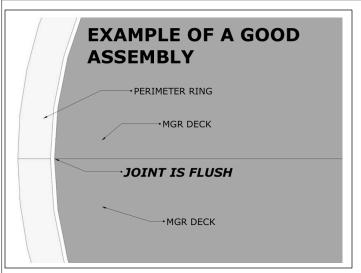


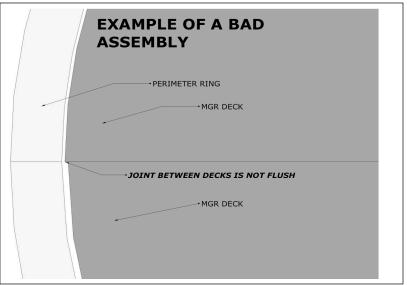




USING THE IMAGES TO THE RIGHT, ENSURE THE EDGES OF EACH DECK ARE FLUSH TO THE NEXT DECK TO PREVENT SERIOUS INUJURY

- __12. Attach decks together using 3/8" x 1 ½" Button Head Bolts (22), 3/8" Flat Washers (23), and 3/8" Nylon Lock Nuts (24). Ensure the perimeter of the decks are flush to each other. Tighten bolts. (Refer to detail F)
- __13. Rotate the 3 attached decks allowing room the assemble the remaining Right QTR Deck w/ Access (3). Repeat step 9, 10, and 12.
- __14. Attach the 4 ½" Casters (17) to the remaining Perimeter Ring Section (8) repeating step 8.
- __15. Set the last Perimeter Ring Section to complete the ring circle. Attach to the other section repeating step 7.
- __16. The diameter of the Perimeter Ring is 1" larger than the merry go round. Center the Perimeter Ring.
- __17. Level the deck. Use the Perimeter Maintenance Access cutout to adjust shims by rotating the deck. When level, re-tighten all bolts except bolts that are attaching the perimeter wall sections to each other.

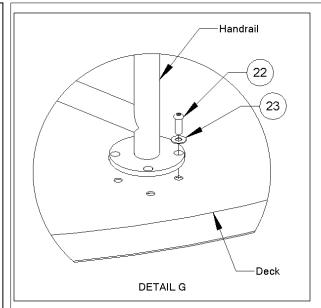


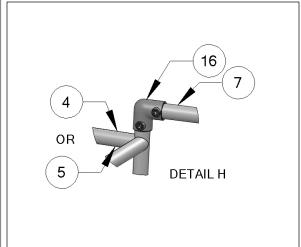




- __18. Attach a Right Handrail (5) to the Right QTR Deck w/ Access (3) using 3/8" x 1 ½" Button Head Bolts (22) and 3/8" Flat Washers (23). Factory installed rivet nuts are on the decks for easy assembly. Do not tighten. (**Refer to detail G**)
- __19. Repeat step 17 for the 3 handrails. Right Handrails go on Right QTR decks, and Left Handrails go on Left QTR decks.
- __20. Once all four handrails have been positioned, attach the Upper Handrail (7) to the four handrails using Elbow Rail Fittings (16). When the four Elbow Rail Fittings are in position on the main handrail, tighten set screws on the elbows and the bolts attaching the handrails to the deck. (Refer to detail H)

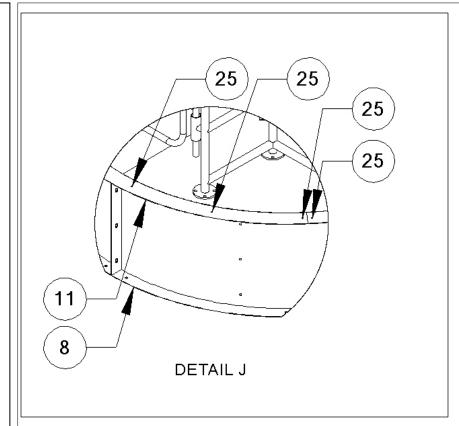
Installation Tip: A 2"x4" can be used to pry if holes do not align perfectly due to welding draw.







- __21. Set the four ADA Perimeter Ring Top Trim (11) on top of the assembled ADA Perimeter Ring Section (8). Note: the diameter of the MGR is 96", the diameter of the ring barrier is 97", and the diameter of the ring top trim plate is 96 \(^1/4\)". The top trim plate is installed to close the gap to 1/8" off the MGR. The maximum gap allowed is 3/16". Offset the top trims' seams from the ring section seams by 30° to 45°. Predrill ring section locations with a #7 drill. Attach with 20 self-tapping tamper resistant screw (25). (Refer to detail J)
- __22. With the Perimeter Ring (8) centered around the merry go round, drill 3/8" holes into the concrete for the 3/8" x 4" Concrete Anchors (26). Use the predrilled holes in the Perimeter Ring's lip as a guide. Install the Concrete Anchors and tighten the nut.
- _23. Tighten all bolts holding the perimeter ring sections together.
- __24. **Governor Tension Adjustment**: Back off the jamb nut on the governor assembly (attached to post assembly) and turn the adjustment nut until the rubber wheel is pushing firmly onto the sleeve of the hub assembly. Once wheel is firmly against the hub, tighten the jamb nut to secure it into position. (**Refer to detail B**)





BACKFILL AND INSTALL SURFACING

Once the merry go round assembly has been installed, backfill evenly around the perimeter wall. We recommend that you backfill with clean rock. If dirt is used, allow to settle before installing the safety surfacing.

Backfill to the height needed for the safety surfacing and surfacing base.

After the area has been backfilled, install the safety surfacing.



