

Construction Committee

September 21, 2016

Hamburg Community Playground *Hamburg, NY*

Receiving Equipment & Materials

This will be the first job of the Construction Committee. A forklift is handy to unload, but 4 to 6 people can unload the truck by hand in an hour. Detailed information on receiving the equipment is included at the back of this document. There is no need to open any of the packages. Simply make sure that you received the total number of crates, skids and pieces listed on the yellow sticker and check for any noticeable damage. Note shortages or damage on the driver's copy of the bill of lading, take a picture of any damage and give us a call. We'll take it from there.



Bulk materials, such as stone, wood fiber and concrete bags should be delivered one or two days before the build event.

Parkitects will provide a Staging Plan showing roughly where all the different materials can be placed as well as a location for the volunteer tent and snack table.

Important – If your project has a GFRC/Concrete Component, you must have an all-terrain Lull on site to off-load the component and place it into the playground on Saturday. **Contact Parkitects for actual weights of components that may require a Lull.**

Contact Parkitects for the estimated ship date of the equipment. The driver will call 24 hours prior to scheduled delivery.

Site Preparation

- Remove existing structure (check with Modern Disposal regarding disposal of wood structure).
- Excavate play area to 12" depth (approximately 500 CY of dirt will be removed).
- Install concrete walkways.

Call U.F.P.O.

You must call the Underground Facilities Protective Organization at least 10 days before installation. They will mark all utilities in and around the playground site. Their number is: 1-800-962-7962.

Security

Once your equipment is brought to the site and while it is being installed, you may need to have security. This may simply be the local police driving by the site more often or it could mean someone camping out on the site. Getting enough construction fencing to surround the site is a good idea. You know your community best. Plan accordingly.

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Equipment

QTY

- 1 **Hole Drilling Equipment** – Our first choice for equipment to drill the post holes is a mini-excavator with an auger attachment. This machine is able to drill several holes from a single position and is able to pile the spoil away from the holes. The auger can be quickly replaced with a bucket should rocks, rubble or loose sand make drilling difficult. Our second choice is a backhoe with an auger attachment. Its larger size can make it harder to move through the site, but it works very well. Our third choice is a Bobcat with an auger attachment. In all cases, the auger should be 14-18 inch diameter. Never use a 3-point hitch auger or hand-held auger – they simply do not work!



- 2-3 **Material Moving Equipment** – Equipment will be needed to move the stone and wood fiber from the stockpile area to the playground site. If you use a backhoe or Bobcat to drill the holes, these also have front buckets. It's typically best to have one large loader like a full-size backhoe or front-end loader, and one small piece like a Bobcat or small tractor. If pallet forks are available for any of your pieces of equipment, please have them on site. Forks are very handy for moving pallets of equipment and concrete.
- 1 **Tools Van** – A secure place to store tools and materials is essential. A 20' rental truck works great! A nearby building also works well.

Special Tools and Services

QTY

Water Service – Be sure there is enough hose to reach the play area. A nozzle on the hose is a must.

Electric Service - Needed to run drills, lights, etc. Be sure this is a reliable source and have access to the panel. The power must be GFCI. Avoid generators if possible, they are not reliable enough.

Rest Rooms - Obtain access to a nearby building or get several port-a-johns donated.

- 1 **Builder's Transit or Laser Level** – This is needed to set grades for support posts. Must be accurate and on site at the very beginning of the installation.

Awnings, Tents and Tables – The Volunteer committee may need an awning. Food service may need a tent and tables with chairs. A small parts table is also required.

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Basic Tools

QTY

- Battery Operated Impact Drivers** – Many people have these now and they are very handy. Let the volunteers know to bring them if they can.
- 10 **Ratchet Straps/Rope** - 1” or 2” wide by a minimum of 10’ long.
- 10 **T- Posts** – Used to anchor ratchet straps.
- 10 **Carpenters Levels** – 2’, 3’ and 4’ are all helpful. A 12” bullet level is also helpful. 2’ & bullet levels with magnets are very nice as they stick to steel support posts.
- 1 **Sawall** – With both metal and wood cutting blades.
- 6 **Ladders** - Step and extension are both useful. 10’ and taller are the best.
- 4 **Lights** - Portable work lights for possible late night work.
- 10 **Ratchet Sets** – 3/8” drive, should include wrench, sockets and extension.
- 10 **Wrench Sets** - Open-end type needed. 1/2”, 9/16” and 5/8” are the most useful.
- 4 **Allen Wrench Sets** - 3/16” are the most used.
- 10 **Tape Measures** – 15’ to 25’ steel tapes.
- 1 ea. **Hammers** - 3# for stakeout, 10# for perimeter stakes.
- 5 **Rubber Mallets** - For gentle persuasion.
- Extension Cords** - Enough to power 2 different tools on site at one time.
- Tarps or Plastic** – Needed for emergency rain cover. Get the largest sizes you can.
- 5 **Tin Snips** - To cut binding on pallets.
- 10 **Utility Knives** - Needed to open hardware packets and cut filter fabric.
- 8-10 **Steel Digging Bars** - For the occasional rock found in up-state soils.
- 10 **Round Nosed Shovels** - For post holes and surfacing installation.

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Basic Tools Continued

- 10 **Metal Garden Rakes** - For site clean-up and surfacing.
- 6-8 **Posthole Diggers** – Used to clean-out holes drilled by the auger.
- 4 **Brooms** - For clean-up.
- 10-12 **Wheelbarrows** – Used for moving concrete, stone and surfacing. You can't have too many of these.
- 8 **Hand Tamps** - For compacting the bottom of the post holes.

Supplies

- 4 **Drill Bits** - 1/4" heavy duty for drilling through metal.
- 2 **Drill Bits** – 3/8" heavy duty for drilling through metal.
- 100 **Wood Stakes** – Used during stakeout. The 8 to 12" tall work the best.
- 1 roll **String** - For stakeout.
- 1 roll **Tape** - Both masking and duct tapes are needed.
- 1 doz. **Pencils and Markers**
- 1 doz. **Replacement Blades** – for the utility knives.

Safety Supplies

- 6 **Goggles** – To protect people mixing concrete.
- 1 doz. **Dust Masks** – some people may want these while working with concrete or spreading wood fiber.
- 1 roll **Caution Flagging** - To keep people off of and out of dangerous places.
- 1 **Fire Extinguisher** - ABC type.
- 1 **First Aid Kit** - Commercial type

Construction Committee

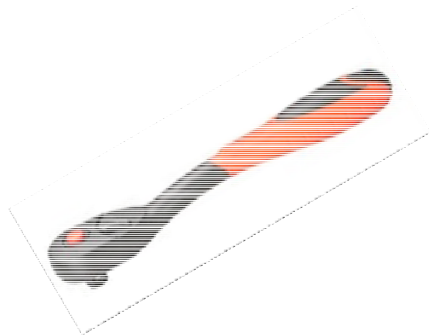
Wood Timber Tools (Seatwalls)

- 1 **½" VSR Drill** – High torque for drilling holes in the timbers.
- 1 **Saw** – To cut the timbers. An 8" or worm-drive circular saw is best for this type of work. A chain saw (be sure to have gas, oil and an extra chain) will work if you cannot find the worm-drive saw.
- 1 **Wood Auger** – ½" x 16" long for the drill.
- 1 **SledgeHammer** – An extra sledge is needed for setting the re-bar pins.
- 1 set **Basic Carpentry Tools** – speed square, tape measure, pencil, saw horses.

Volunteer Tools

Be sure that the volunteer committee knows that each volunteer **must** be asked to bring a

Ratchet, Rake, and Shovel.



3/8" Ratchet Wrench



Metal Garden Rake



Round Nosed Shovel

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DONATED MATERIALS LIST

IN ADDITION to the items to be purchased from Parkitects and the items on the Tools & Equipment list to be borrowed, the following items must be found locally (donated if possible).

Concrete - Bags

Bags are preferred over a cement truck for equipment support posts for two reasons. First, we don't know whether the concrete will be needed at 10:00AM or 2:00PM. With bags there is never a scheduling problem. Second, each post requires three bags of concrete, no more, no less. With truck mix, the volunteers tend to overfill the holes and we run out of concrete.

758 EA **80# Bags Concrete** – For playground equipment.
3,000 psi Ready-to-Use Mix

228 EA **80# Bags Concrete** – For seating walls.
3,000 psi Ready-to-Use Mix



Concrete – Truck Mix

For play pieces that require large footings, such as the Play Odyssey Tower, Full Sail CoolToppers Shade and Sway Fun, truck mix concrete is preferred.

9 CY 3,500 psi Truck-Mix Concrete – For large footings.
(233 bags...not included above)



Misc. Items

115 Ton **No. 1 Crushed Stone** - Needed for the drainage layer under the engineered wood fiber.

60 Ton **Crush and Run Stone** – Needed for poured-in-place rubber surfacing base.

Additional Items

7,000 SF **New Walkways**

24,000 SF **Geo-textile Fabric** – Must be porous and allow water to flow thru.
If not purchases with engineered wood fiber surfacing.

X **Brick Entry Piers and Signage**

X **Trees, Shrubs and Plantings** – Check with Lynn when you get offers for donations and she'll help you determine what you can use.

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Materials for Wood Construction

437 LF	Seating Walls
43	4x4x10' posts
44	4x4x8' posts
27	4x6x8' posts (for double sided seat wall)
125	2x6x8' – boards
100	2x8x10' – 100 trex boards (for seats)
45	2x8x8' – 45 trex boards (single sided seat backs)
26	2x8x10' – 26 trex boards (double sided seat back)
475 EA	1/4"x3" lag bolts
3 EA	5 gallon buckets of deck screws

44 LF	Border Behind Swings (no seatwall in that area)
8	6x6x12' Timbers
11	1/2"x18" Rebar
11	1/2"x12" Landscape Spikes

If you'd like a border between the grass and the engineered wood fiber under all of the seat walls, then here's what we'll need. We can attach the 2x10's to the seat wall posts to create the border.

37 EA	2x10x12' Boards
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Construction Committee

RECEIVING THE EQUIPMENT

This is where your Playstructure was manufactured

Your Sales Order number

A barcode representing your Sales Order Number

This is the date your Order was prepared for shipping.

This box will have the name and address of where this shipment was delivered.

Refer to this number to correspond shipping units with the appropriate packing list as shown below.

Total number of units on your sales order. (Note: You may have multiple sales orders on a shipment.) In this case, there is a total of 1 crate, 4 skids and 4 pieces. This is the 2nd of those units.

This line tells you the exact number of each type of container on your sales order. CR stands for Crates or Cartons, SK stands for Skids or Pallets and PC stands for Pieces. This shipment has 1 crate, 4 skids and 4 pieces.

This is a unique identifier for this container. With this number we are able to determine when it was prepared for shipping, who prepared it and at what time it was prepared.

Sample Packing List

The Shipping Label above will be on all of the Skids, Pieces and Crates shipped to you*.

*Ship Unit Codes:
S=Skid
P=Piece
C=Crate

Sample Bill of Lading

Part Number

Description

This picture represents the part supplied.

601 7th St. South, Delano, MN 55328 Tel 763.972.3391 Fax 763.972.3185 888.4FUNLSI playsi.com

Prep Work Schedule

September 21, 2016

Hamburg Community Playground *Hamburg, NY*

September 2016

Scope of Work

- Remove and dispose of existing wood structure – in-kind services
- Remove and dispose of all concrete footings from wood structure – in-kind services

Equipment & Materials Needed

- Heavy machinery, trucks for hauling and saws – in-kind services

October 2016

Scope of Work

- Install new walkways thru play area (7,000 SF) – in-kind services

Equipment & Materials Needed

- Material for new walkways

April 17-28, 2017

Scope of Work

- Excavate new play area to 12” depth from finished grade (12,000 SF) – in-kind services
- Form and pour larger concrete footings needed for the Sway Fun Glider, We-saw, Omnispin spinner and Play Odyssey Tower – in-kind services

Equipment & Materials Needed

- Heavy machinery for digging and trucks for hauling – in-kind services
- Wood to create forms for larger concrete footings – donated materials
- 9 CY of concrete – donated materials

April 27 – April 28, 2017

Scope of Work

- Drill 275 holes for playground equipment and seating walls. Auger sizes needed 12-18” in diameter – in-kind services
- Deliver materials to the site
- Prepare seating walls and some playground equipment – community build volunteers

Equipment & Materials Needed

- Machines to drill holes – in-kind services
- (986) 80lb bags of readi-mix concrete – donated materials
- 115 Ton of No. 1 crushed stone for drainage layer under engineered wood fiber – donated materials
- 24,000 SF of geo-textile fabric
- Wood for seating walls – donated materials
- Trees, shrubs and plantings – donated materials

Prep Work Schedule

April 29 – May 1, 2017

Scope of Work

- Gather and coordinate approximately 250-300 volunteers over the three days
- On-site prefabrication of playground equipment – community build volunteers
- Installation of playground equipment – community build volunteers
- Installation of filter fabric, stone base and engineered wood fiber – community build volunteers
- Final construction of wooden seat walls – community build volunteers
- Planting of trees – community build volunteers

Equipment & Materials Needed

- Playground equipment
- (986) 80lb bags of readi-mix concrete – donated materials
- 115 Ton of No. 1 crushed stone for drainage layer under engineered wood fiber – donated materials
- 391 cubic yards of engineered wood fiber
- 24,000 SF of geo-textile fabric
- Wood for seating walls – donated materials
- Trees, shrubs and plantings – donated materials

May 2-6, 2017

Scope of Work

- Install stone base for rubber surfacing and install rubber surfacing
- Install new entry piers

Equipment & Materials Needed

- 60 Ton of crush and run stone for rubber surfacing base – donated materials
- Material for brick entry piers

Build Event Schedule

September 21, 2016

Hamburg Community Playground *Hamburg, NY*

Thursday: April 27, 2017

Preparation Day

Goals for the Day Stake out area, drill holes, sort parts, install Independent Play Items. Concrete 'King Post' for the play structure.

8:00 – 10:00 Volunteers – 6 to 8 people to help Parkitects stakeout the area.

10:00 – 12:00 Hole drilling crews can begin work.

1:00 – 6:00 Volunteers – 20 to 25 people to help sort parts, drill holes, assemble and install independent play pieces.

Friday: April 28, 2017

Preparation Day

Goals for the Day Stake out area, clean out holes, sort parts, install Independent Play Items. Concrete 'King Post' for the play structure install a couple key components for the main structure.

8:00 – 10:00 Clean out and level holes.

10:00 – 12:00 Volunteers – 6 to 8 people to help Parkitects to sort and mark post heights.

1:00 – 6:00 Volunteers – 25 to 30 people to begin prefab of some of the main structure play pieces.

SATURDAY: April 29, 2017

The Main Event

Goals for the Day Install play area and pour concrete before dark. Install fabric and stone base for playground surfacing.

8:00 – 1:30 Volunteers – 125 to 150 people
Food - snack table breakfast, substantial snacks from 12:00 to 1:00.
Child Care - open for business.

1:30 - 2:00 Lunch

1:30 - 7:00 Volunteers – 125 to 150 people
Food - snacks all afternoon, substantial snacks around 5:00 p.m.
Child Care - open until 6:00 p.m.

Build Event Schedule

SUNDAY: April 30, 2017

The Main Event

Goals for the Day Final assembly of play equipment.
Install engineered wood fiber surfacing.
Complete seating wall construction.

8:00 – 1:30 Volunteers – 50 to 75 people
Food - snack table breakfast, substantial snacks from 12:00 to 1:00.

1:30 - 2:00 Lunch

1:30 - 7:00 Volunteers – 50 to 75 people
Food - snacks all afternoon, substantial snacks around 5:00 p.m.

MONDAY: May 1, 2017

Just in Case Day

Should we run into problems, you may need to finish spreading the wood fiber surfacing on Monday. The stone base for the rubber surfacing should be double checked and finalized on this day.

TUESDAY: May 2, 2017

Rubber Surfacing Installation

The poured-in-place rubber surfacing will take 1-2 days for the installation and 1-2 days for the product to cure.

FRIDAY: May 5, 2017

Punch-list Party

The swings can be hung and the space-cable climber can be tightened. This is also a good chance for the committee parents and their children to initiate the new playground. Parkitects' playground safety inspector will be on site to complete the Safety Audit for the new play area.

SATURDAY: May 6, 2017

Opening Day

If all the necessary items have been accomplished – the playground can open today!