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Project Description

Describe the project you plan to do.

My goal is to create a play structure where children and adults can interact in the playground area at Union Baptist Church. The playground design is very simple. It consists of a set of three concrete cylinders. These columns will be no taller than waist high and will have no rough edges to harm children. Molds will be used to create the structures. Don Hart works directly with the concrete industry and is helping to coordinate and provide advice about the details involving concrete. The cylinders will be painted bright colors. The tallest cylinder has a height of three feet, to insure no serious injury will come from a fall. I will spread wood chips around the columns as well as the entire play area; this will keep children safe from falls and will also meet state requirements for public play areas. A mandatory six (6) foot radius from all parts of the play structures will provide additional protection for the children from commonplace accidents resulting from tripping, pushing, and roughhousing.

Who will benefit from the project?

This project will directly benefit Union Baptist Church. Union Baptist has run a day-care center in the past as part of an outreach to the community. This day care center had to be shut down because their play area did not pass state inspections. A new play area built as an Eagle Scout service project will help the church's outreach to the community. As parents bring children, the church members can witness to the parents and invite the families to come back for church. This will provide an excellent opportunity for church members to increase membership to their church and witness to the community.

Project Details

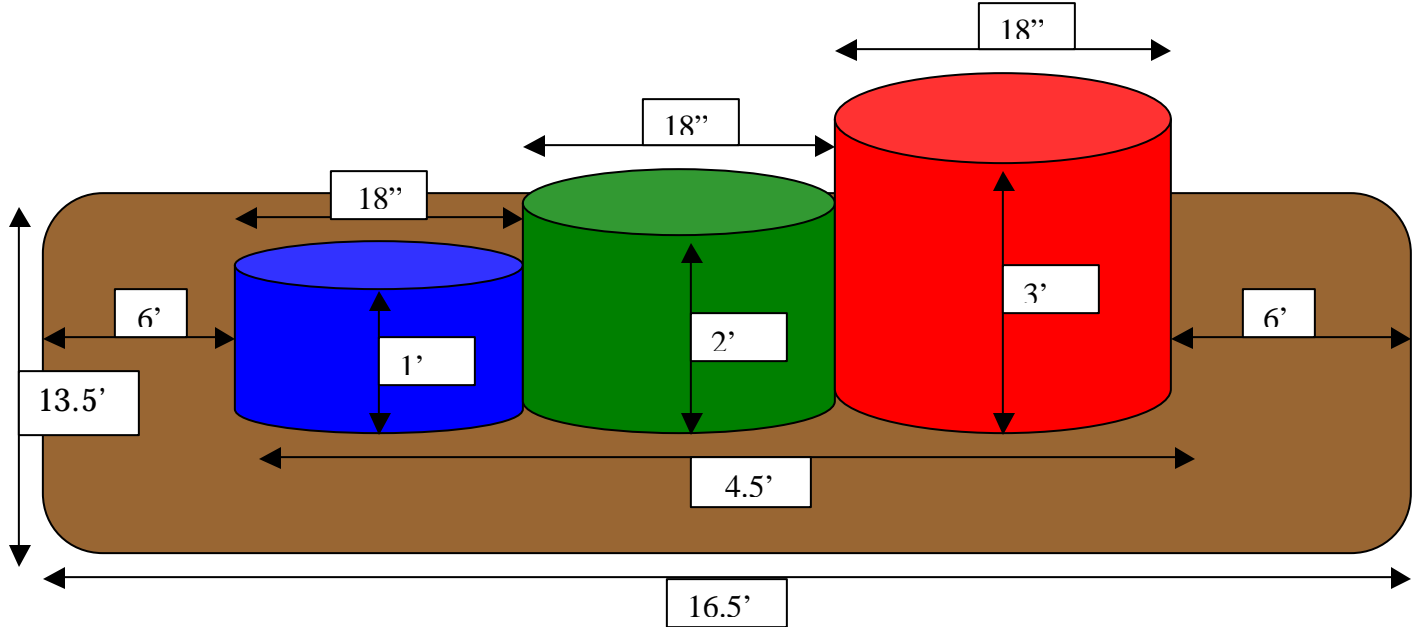
Present Condition

At the present time conditions of the play area of Union Baptist Church are barely adequate. The required six inch deep safety layer of wood chips, mulch, or sand is not on site. These six inches of surface material are vital to children's safety because they provide padding for falls. An old swing set looks as if older children looking for mischief have carelessly abused it. Weeds are beginning to grow in the designated area. There are bare places of land from the wear and tear of many childrens' small feet running back and forth. There are also "bald spots" from the dragging of feet to stop the swings. A sandbox tucked in the corner is full

of trash and is an eyesore. The area looks as if it had been exposed to years of use from a small group of rambunctious toddlers to elementary school age rascals.

Plans/Drawings/Designs

Each column pictured here has been labeled with the appropriate measurement. All lengths are in feet. The brown area pictured in the background is the necessary ground cover of mulch. It is six inches deep and has a six-foot radius from any part of the structure.



There are several main components of the plan described above.

These include actual construction material, ground cover, and beautification supplies.

Materials

1. Concrete
 - a. Donated by RMC Carolina Materials

- b. About 130 cubic feet needed (4.8 cubic Yards)
2. Paint
- a. 3 gallons of color paint and one gallon primer
 - b. Bought at discount from Sherwin-Williams company
 - 1. Primer: 1 gallon
 - 2. Blue paint: 1 gallon
 - 3. Green paint: 1 gallon
 - 4. Red paint: 1 gallon
3. Concrete forms – PSI Pump, Pipe, Sales, & Service, Inc. will provide single wall corrugated plastic pipe (or “hancor”) for a discount price (\$7.80 per foot, or \$78.00 total for one ten foot section)
4. Ground cover – available from the city at little or no charge; about 8000 square feet will be needed

Tools

Tools are needed for any construction project. Generally, when working with concrete, the tools are designed for very specific purposes. This project will need some of these tools, but also some more common tools. These include:

- 1. Float – used to smooth rough edges of concrete (3 needed)
- 2. Wheelbarrow – used for mixing and transporting concrete and wood chips. (1 needed)

3. Shovels – used to countersink holes to put concrete into (5 needed)
4. Handsaw – used to cut hancor to appropriate lengths
5. Trowels – used to smooth the concrete to prevent rough surfaces on columns (3 needed)
6. Level – used to insure the columns are level (1 needed)
7. Paintbrushes – used to apply paint (6 needed)
8. Gloves – to protect hands from blisters and chemicals in concrete (6 pairs needed)
9. Pitchforks – used to spread mulch (2 needed)
10. Rakes – to clear out leaves and debris while preparing the area and to spread mulch (3 needed)

Supplies

My project will require some items that are not reusable. These include sandpaper to smooth rough edges, trash bags to collect waste, paint thinner to clean paint brushes, pens and sign-in sheets to keep accurate records, and paper cups and napkins to provide refreshments for workers. An estimated cost for these items is \$40.00.

Safety

Safety will be a key concern during this project. A First-Aid Kit will be on site at every work session. It will include adhesive bandages for small cuts, Betadine or another cleansing solution to clean any injuries,

gauze for larger cuts, and more items for less likely situations. At least two (2) First-Aid and CPR trained personnel will be on-site at all times. A log will be kept to record any injuries and the treatments given. This will serve as a reference if any future complications arise. There will also be a cellular phone present so an ambulance may be called in case of emergency. Adults will be at the work area with transportation if someone needs to be taken to a place with more advanced care. Water will be provided to workers through the use of the Troop 911 five-gallon water coolers. Snacks and soft drinks will also be provided to ensure workers do not become dehydrated or hypoglycemic. Before each work session the daily plan will be explained. There will also be an explanation of what each tool is and what it should be used for. There will also be safety goggles available when needed.

Schedule

Any successful businessman can tell a young person that a schedule is vital for success. An Eagle Project also requires a schedule. The following is a rough outline of a proposed schedule. Between the first and second workdays I will call RMC Carolina Materials to make final coordinations and confirm the date for pouring concrete.

1. 8/25/01 – First work day
 - a. Prepare area for concrete
 - b. Clear debris
 - c. Set forms

2. 9/08/01 – Second work day
 - a. Pour concrete
 - b. Spread ground cover
3. 9/22/01 – Third workday
 - a. Sand rough edges of columns
 - b. Apply one coat of primer to each column
4. 9/29/01 – fourth workday
 - a. Apply two coats of paint to each column
5. 9/30/01 – Dedication Ceremony (subject to agreement with Union Baptist)
 - a. Ribbon cuttings
 - b. Refreshments for all

Following the schedule does not lead to a finished project unless exact instructions are followed. These instructions begin with the first workday.

Step-by-step instructions

First Day

On the first day it is scheduled to clear debris, prepare the area, and set the forms. Clearing debris includes using rakes to move out leaves and litter. They will be transported to the street using the wheelbarrow. The brush will be put on the edge of the street where the city can pick it up, and

the trash will be disposed of in the church's dumpster. People will pull weeds. Workers will also clear the debris out of the sandbox on this day. Preparing the area for the concrete includes digging holes to countersink the columns. To set the forms the hancor pipes will be set into holes that have been dug. Dirt will be filled in around the pipes to insure they are stable.

Second Day

The second day has pouring concrete and spreading ground cover planned. Pouring concrete will be done in conjunction with RMC Carolina Materials. All the forms will be in place so we take a minimum amount of valuable time from the company. Spreading ground cover will involve the use of rakes and pitchforks to evenly apply a six-inch layer to all parts of the play area.

Third Day

The third workday involves sanding the forms and applying a primer coat of paint to the columns. Sanding the forms will be a simple process of using sandpaper to smooth rough edges. Applying the primer will insure the paint sticks to the columns. Without the primer coat the color paint would chip off and look unattractive.

Fourth Day

The fourth day includes painting the columns. Sherwin Williams makes bright colored paints specifically for slick surfaces such as hancor pipe. Columns will be given two coats of paint to achieve maximum color. Since the special blend of paint is oil based paint thinner must be used to wash the brushes after painting is finished.

Fifth Day

The fifth day is a dedication ceremony. A dedication ceremony will include providing drink (such as lemonade) and a snack (such as Krispy Kreme doughnuts) for all. A tape cutting will be held and keys to a lock on the gate will be handed over. All people associated with the project will be invited. Church members will also be invited.

Financial plan

Funding is one thing that has the ability to hold back a project. To develop the funds to achieve the finished product I will have to conduct fundraising. To do this my fellow scouts and I will speak at Union Baptist Church. We will provide information about the project and its benefits to selected Sunday School classes, and then we will accept donations. It will be explained that all donations are tax deductible. \$350 is the amount needed to conduct the project. If this goal is not met at Union Baptist my fellow Scouts and I will also accept donations from my church, College Park Baptist Church.

Helpers/Workers

To do the physical labor workers will be brought from Troop 911, Crew 911 and Troop 898. Don Hart (336-725-0545) is being used as a resource to answer questions regarding concrete. Robert Noble (336-724-1775) is the property manager and chairman of day care at Union Baptist Church. He is the contact for all questions regarding the church grounds. James Boone (336-741-1580) is the Scoutmaster of Troop 898 and is the contact to work in conjunction with his troop

Adult Supervision

At least one adult will be at the jobsite every work session. Most likely this will be either a Scoutmaster or Assistant Scoutmaster from either Troop 911 or Troop 898. This leader may also be a Venture Crew Advisor from Venture Crew 911.

Work Site

The construction will be held in the fenced off play area at the “Old Building” of Union Baptist Church. The street address is

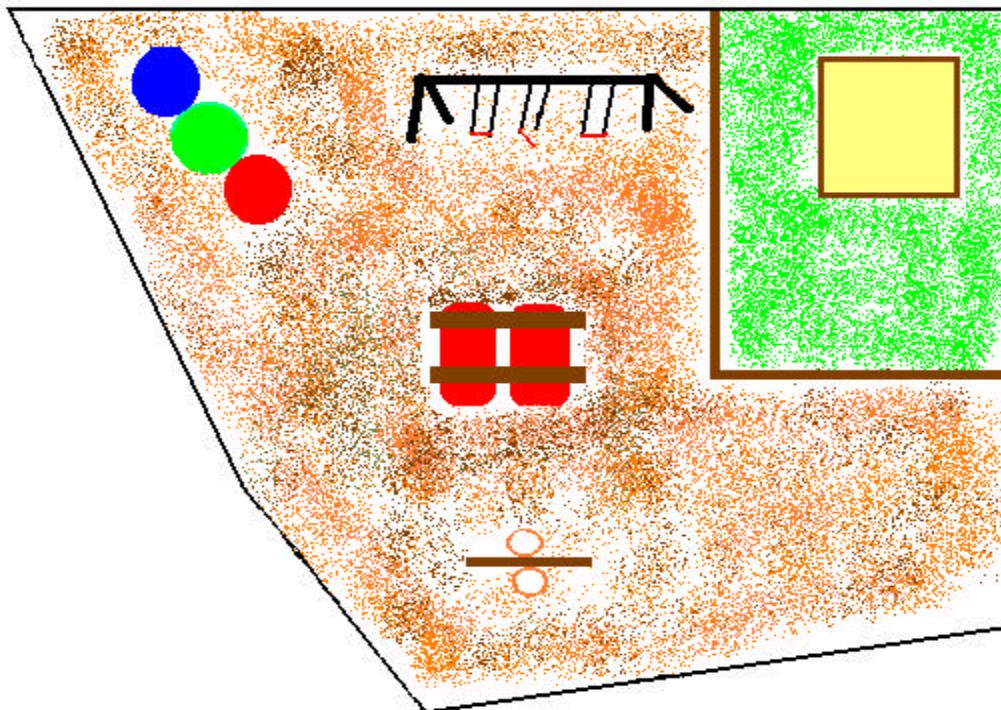
Union Baptist Church
1200 North Trade St.
Winston-Salem, NC 27101

Transportation

Tools and people will need to be moved to the worksite. The Burkhead United Methodist church allows Troop 911 the use of its van.

This van can be scheduled to move scouts to the worksite. Tools can be moved via pick-up trucks owned by Assistant Scoutmasters or borrowed from family friends.

Overall View of Project



Work to be completed:

- Add three cement columns
- Spread wood chips
- Remove trash
- Clean out sandbox
- Repair minor damages to equipment already in place