

Project Description

Describe the project you plan to do.

(This box may be adjusted to fit your description.)

YOUR PROJECT TITLE: Barry Park Picnic Tables

For my project, I am going to install picnic tables, trees, and bushes at Richard Barry Memorial Park. There will be two picnic tables that will have surrounding trees, and bushes for visual appearance. The area is next to the lower fields and this will provide seating and shade for the parents that visit the park to watch their children play sports. I am going to put in timbers that will be filled in with mulch to designate the area. There will be steps down to the second table and the first table is going to be handicap accessible to compliment the handicap playground next to the area I'm putting the tables in. The trees will provide some shade to help people stay out of the sun.

What group will benefit from the project?

Town of Huntersville

704-766-2220

Name of religious institution, school, or community

Telephone No.

13707 Beatties Ford Road

Huntersville

NC

28078

Street address

City

State

Zip code

My project will be of benefit to the group because:

(This box may be adjusted to fit your description.)

My project will benefit the Town of Huntersville and the local community by providing seating areas and shade areas at a popularly visited local park where many families have children that play sports there. This will make the experience more enjoyable for the visitors to the park and provide a nice place to watch the sports. The picnic tables will also provide a spot where children can sit down after games to rest and wait to be picked up.

This concept was discussed with my unit leader on:

8-13-10

Date

The project concept was discussed with the following representative of the group that will benefit from the project.

Scott Treon

7-24-10

Representative's name

Date of meeting

Assistant Parks & Recreation Director

704-766-2226

Representative's title

Phone No.

Project Details

Plan your work by describing the present condition, the method, materials to be used, project helpers, and a time schedule for carrying out the project, the estimated cost of the project, and how the needed funds will be obtained. Describe any safety hazards you might face, and explain how you will ensure the safety of those carrying out the project.

If appropriate, include photographs of the area before you begin your project. Providing before-and-after photographs of your project area can give a clear example of your effort.

The present condition of the area I am going to do my project at is just a grassy hill without accommodations to the park goers, as seen in the "Before" photographs. To improve the area, I will be installing two picnic tables near an existing playground overlooking the soccer fields. Around the picnic tables I will be installing three trees to provide shade. I am also adding some bushes around the area for a better visual appearance to my project. The site plan has the specifics of what I intend to do.

To do this, I will have to grade the hill on which I am installing two seating areas outlined with 8'x4"x6" landscape timbers. The upper seating area (tier) will be approximately two to three feet higher in elevation than the lower seating area. I am working with the Huntersville Parks and Recreation Department who will help coordinate the site preparation work. This will include minor grading to the hill where the timbers will be installed, as well as digging and loosening the areas where the trees will be planted. On the upper tier there is going to be a retaining wall built from 8'x6"x6" treated lumber aligned with the stairs to hold in and level the dirt. The timbers will be installed and secured by driving 10" spikes through pre-drilled holes. Workers will level the dirt using shovels and rakes. Once this is done I can start the process of laying the landscape timbers down to outline the areas. To connect the upper and lower levels there will be two steps built out of the timbers in between the separate levels for walking through. Each timber will be checked to make sure it is level so after the wall is complete, the ground will be level. Next we will lay down approximately three to four inches of mulch on each seating area.

It has been discussed with the Assistant Parks Director about whether the mulch will be suitable for wheelchairs. This has been done at other parks and there have not been any issues with accessibility. As requested by The Huntersville Parks and Recreation, I will be using their standards for picnic tables and mulch to remain consistent with what's installed at other parks for long-term maintenance. After the mulch is down we will then build and install the picnic tables. The standard picnic table will be six feet in length and the handicap table will be eight feet in length. The handicap table will be located in the upper tier very close to an existing concrete sidewalk to ensure easy access for wheelchairs. The picnic tables are made from steel frames with 2x4's for the top and benches. The lumber comes pre cut with the frames and we will be assembling the tables with the supplied hardware. The table top will consist of three 2x4's with four 3/8's inch carriage bolts securing them, two at each end. Then each bench will be one 2x4 attached to the frame with four 3/8's inch bolts, two in each end.

After the tables are in, holes for the trees and bushes can be dug. The trees will be planted where they are not in the way of people walking but where they can provide shade. The bushes will be around the timbers spaced out enough to let people through if needed. They will add to the visual appearance of my project.

Leadership: My project helpers will be fellow Scouts, family members, and some of my close

friends. I am working directly with the Assistant Parks Director of the town of Huntersville to plan, design, and install my project. This will ensure that it fully meets their needs. I will show my leadership skills by supervising and instructing the workers on how the job is to be done properly and safely. I have planned the whole project and it will be my responsibility to keep record on everything done for the project. Another way of showing my leadership skills will be talking to businesses I am going to get my materials from and trying to get possible donations for my project. I will be getting experienced people from the Huntersville Parks and Recreation to help with grading the hill which will involve myself by figuring out what needs to be done and when the site is properly prepared for the timbers. I will also be in charge of getting the workers that will help me and plan out the times and days we will be able to work and get the project done smoothly. Everything that is needed to be carried out will be decided by me and also I will run the tasks needed to be done.

Safety: Ways to prevent injuries will be providing correct safety equipment for certain jobs and having the proper supervision to make sure everything is being done correctly and safely. Possible injuries my workers could face are cuts or injuries from the use of the tools. I will require workers to use the right safety equipment. Only adults will be allowed to handle power tools to make sure of safe use. I will also make sure there are always at least two adults present with cell phones while there is work going on in case of an emergency. All underground obstacles such as power lines, sewer lines, water lines, etc, will be located before digging by using a service called the NC One-Call Center. Sunscreen will be used to protect from sunburn. To prevent dehydration and exhaustion I will provide drinks and snacks for the workers to stay hydrated. There will be plenty of breaks including lunch breaks. Toilet and wash facilities are available right next to the playground across from my project area. There will be a first aid kit kept on site in case of any injury. Materials will be kept at my house to stay out of the way. There will also be signs indicating that there is work going on and to stay off until it is finished to ensure safety around my project area.

Funding: The estimated cost of my project is \$1,939.29. I am planning to receive one thousand dollars from a Duke Energy community improvement grant. I plan to receive five hundred dollars from the Huntersville Parks and Recreation Department. And the remaining funding will come from donations from businesses and family members.

Materials and Cost:

| Picnic tables(Kit) | | | | |
|--------------------------------|-----------------|--------------------------|-----------------------|-------------|
| Description | Quantity | Units(of measure) | Price Per Unit | Cost |
| Metal-Framed Picnic Table Kit | 2 | Kits | \$433.50 | \$867.00 |
| Pressure Treated Lumber 2x8-6' | 12 | Each | Included with kit | n/a |
| 2x8-8' | 4 | Each | | n/a |
| Bolts, nuts, & washers | 32 | Sets | Included with kit | n/a |

| Materials for Landscaped Area | | | | |
|--------------------------------------|-----------------|--------------------------|-----------------------|-------------|
| Description | Quantity | Units(of measure) | Price Per Unit | Cost |
| Treated Landscape Timbers 6x6-8' | 16 | Each | \$15.00 | \$240.00 |
| 4x6-8' | 14 | Each | \$4.00 | \$56.00 |
| 10" Spikes | 70 | Each | \$.55 | \$38.50 |
| Mulch - 10 cubic yard loads | 2 | Loads | \$100.00 | \$200.00 |

| Trees & Shrubs | | | | |
|---|-----------------|--------------------------|-----------------------|-------------|
| Description | Quantity | Units(of measure) | Price Per Unit | Cost |
| October Glory Maples – 10 ft or 15 gallon | 3 | Each | \$100.00 | \$300.00 |
| 3 gallon Loropetalum | 6 | Each | \$15.00 | \$90.00 |
| | | | Subtotal | \$1,791.50 |
| | | | Tax | \$ 147.79 |
| | | | Total | \$1,939.29 |

Work Day Plan, Tools, and Man Hour Estimation:

| <u>Task</u> | <u>Description</u> | <u>Materials/Tools Needed</u> | <u># Of Workers</u> | <u>Work Times</u> | <u>Hours</u> | <u>Estimated Man Hours</u> |
|---------------------------|--|--|----------------------------------|---|--------------|----------------------------|
| Planning | Project planning and talking to Scott Treon. | Eagle Project Workbook | 1 Scout (Me) | Various | 12 | 12 |
| Material Pick Up | Picking up the materials needed for the project. | Honda Pilot SUV | 1 Scout (Me) 1 Adult (My Dad) | Various | 3 | 6 |
| 1 st Work Day | Site Preparation and grading. | Safety glasses, level and tape measures, Back hoe, excavator, or skid loader | 1 Scout (Me) 3 Adults | 8AM-12 noon | 4 | 16 |
| 2 nd Work Day | Laying down timbers and filling in with mulch. | Shovels, wheelbarrows, rakes, gloves, safety glasses, measuring tapes, hammers, sledge hammers, electric circular saw | 5 Scouts 2 Adults | 2 Shifts, Me and different people 8AM-12 noon 1PM-5PM | 8 | 56 |
| 3 rd Work Day | Building and assembly of picnic tables and planting of trees and shrubs. | Shovels, gloves, safety glasses, extension cord, electric circular saw, electric drill, wrenches, screw drivers, measuring tapes | 5 Scouts 2 Adults | 2 Shifts, Me and different people 8AM-12 noon 1PM-5PM | 8 | 56 |
| Final Project Write up | Complete the workbook and finalize entire write-up. | Eagle Project Workbook | 1 Scout (Me) | Various | 4 | 4 |
| Total Estimated Man Hours | | | | | | 150 |

Tools/Materials Requirements:

| Task | Description | Materials/Tools Needed | Quantity | Source |
|--------------------------|--|--|--|--|
| Planning | Project planning and talking to Scott Treon. | Eagle Project Workbook | 1 | Troop 19 |
| Material Pick Up | Picking up the materials needed for the project. | Honda Pilot SUV | 1 | Myself |
| 1 st Work Day | Site Preparation and grading. | Safety glasses Tape measure Back hoe, excavator or skid loader | 4 pairs 1 1(TBD)* | Myself Myself Parks and Rec Dpt |
| 2 nd Work Day | Laying down timbers and filling in with mulch. | Shovels Rakes Wheelbarrows Gloves Safety Glasses Measuring tapes Hammers Sledge hammers Electric Circular saw Extension Cords | 4 4 2 7 pairs 7 pairs 2 2 2 1 2 | Myself and workers Myself and workers Myself and workers Myself and workers Myself and workers Myself and workers Myself and workers Myself and workers Myself Myself |
| 3 rd Work Day | Building and assembly of picnic tables and planting of trees and shrubs. | Shovels Gloves Safety glasses Extension cords Electric circular saw Electric Drill Tools Measuring tapes | 4 7 pairs 7 pairs 2 1 1 2 sets 2 | Myself and workers Myself and workers Myself and workers Myself Myself Myself Myself and workers Myself |
| Final Project Write up | Complete the workbook and finalize entire write-up. | Eagle Project Workbook | 1 | Troop 19 |

*Grading equipment and quantities will be determined by the Huntersville Parks and Recreation department based on amount of grading required and their work experience.

“Before” Photographs



Photo 1



Photo 2



Photo 3



Photo 4

Approval Signatures for Project Plan

Project plans were reviewed and approved by:

Religious institution, school, or community representative Date

Scoutmaster/Coach/Advisor Date

Unit committee member Date

Council or district advancement committee member Date

CARRYING OUT THE PROJECT

Record the progress of your project. Keep a record of how much time you spend planning and carrying out the project. List who besides yourself worked on the project, the days they worked, the number of hours they worked each day, and the total length of time others assisted on the project. If appropriate, list the type and cost of any materials required to complete the project. If your original project plan changes at any time, be sure to document what the change was and the reason for the change.

Hours I Spent Working on the Project

The length of time spent should be as adequate as is necessary for you to demonstrate your leadership of two or more individuals in planning and carrying out your project.

Hours I spent: Planning the project 15 Carrying out the project 33.5

Total hours I spent working on the project: 48.5

Hours Spent by Scouts, Venturers, or Other Individuals Working on the Project:

My Final Hours

| Name | Date | Time In | Time Out | Total Hours |
|---|----------|----------|----------|-------------|
| Day 1 – Site Preparation & Grading | | | | |
| 2 P.M.-4 P.M. | | | | |
| Connor Young | 11/12/10 | 2:30 PM | 3:30 PM | 1 |
| Mr. Young | 11/12/10 | 2:15 PM | 3:30 PM | 1.25 |
| Scott Treon | 11/12/10 | 2 PM | 4 PM | 2 |
| Day 2 – Digging, Laying Down Timbers & Planting Trees | | | | |
| 8 A.M.-6 P.M. | | | | |
| Bradley McDonnell | 11/13/10 | 12:30 PM | 1:30 PM | 1 |
| Jack Buffum | 11/13/10 | 2 PM | 4:30 PM | 2.5 |
| Mr. Vice | 11/13/10 | 8 AM | 11 AM | 3 |
| Dante Ybarra | 11/13/10 | 8 AM | 12 PM | 4 |
| Mr. Sokley | 11/13/10 | 8 AM | 12 PM | 4 |
| Cameron Callahan | 11/13/10 | 12:30 PM | 4:30 PM | 4 |
| Morgan Shaw | 11/13/10 | 12:30 PM | 4:30 PM | 4 |
| Nik Westhofen | 11/13/10 | 12:30 PM | 4:30 PM | 4 |
| Alex Kuhn | 11/13/10 | 12 PM | 4 PM | 4 |
| Mr. Almond | 11/13/10 | 12 PM | 6 PM | 6 |
| Mr. Young | 11/13/10 | 8 AM | 6 PM | 10 |
| Connor Young | 11/13/10 | 8 AM | 6 PM | 10 |
| Day 3 – Finishing Laying Timbers Down, Planting Bushes & Filling In With Mulch | | | | |
| 9 A.M.-8 P.M. | | | | |
| Mrs. Young | 11/14/10 | 4:30 PM | 6 PM | 1.5 |
| Trent Almond | 11/14/10 | 10 AM | 12 PM | 2 |
| Mrs. Almond | 11/14/10 | 10 AM | 12 PM | 2 |
| Mr. Almond | 11/14/10 | 11 AM | 1:30 PM | 2.5 |
| Al McCreary | 11/14/10 | 2 PM | 6 PM | 4 |
| Brendan Almond | 11/14/10 | 12 PM | 6 PM | 6 |

| | | | | |
|---|----------|----------|---------|--------|
| Ben Pierce | 11/14/10 | 2 PM | 8 PM | 6 |
| Mr. Young | 11/14/10 | 9 AM | 8 PM | 11 |
| Connor Young | 11/14/10 | 9 AM | 8 PM | 11 |
| Day 4 – Finishing Filling In With Mulch | | | | |
| 3 P.M.-4P.M. | | | | |
| Zach Herman | 11/15/10 | 3 PM | 4 PM | 1 |
| Trent Almond | 11/15/10 | 3 PM | 4 PM | 1 |
| Mrs. Young | 11/15/10 | 3 PM | 4 PM | 1 |
| Connor Young | 11/15/10 | 3 PM | 4 PM | 1 |
| Day 5 – Building The Stairs | | | | |
| 10A.M.-5:30P.M. | | | | |
| Mrs. Young | 11/27/10 | 1:30 PM | 5:30 PM | 4 |
| Alex Young | 11/27/10 | 10 AM | 5:30 PM | 7.5 |
| Mr. Young | 11/27/10 | 10 AM | 5:30 PM | 7.5 |
| Connor Young | 11/27/10 | 10 AM | 5:30 PM | 7.5 |
| Day 6 – Assembling & Installation of Picnic Tables | | | | |
| 10A.M.-1P.M. | | | | |
| Mr. Banks | 12/11/10 | 11:30 AM | 1 PM | 1.5 |
| Matt Hoffman | 12/11/10 | 10 AM | 1 PM | 3 |
| Zach Herman | 12/11/10 | 10 AM | 1 PM | 3 |
| Mr. Young | 12/11/10 | 10 AM | 1 PM | 3 |
| Connor Young | 12/11/10 | 10 AM | 1 PM | 3 |
| Total Work Hours | | | | 150.75 |
| Total Planning Hours | | | | 18 |
| Total Hours | | | | 168.75 |

“During” Photographs



Grading the hill.



Putting the first tree in.



Digging the trenches for the retaining wall.



Drilling holes for the rebar.



Hammering in the rebar.



Smoothing out the first level.



Digging holes for the plants.



Filling in the top level with mulch.



Hammering in the last rebar!



the lower level.

Carrying the first picnic table to



Putting together the last table!

Eagle Project Budget:

| Material | Unit Price | Quantity | Cost |
|---|-------------------|-----------------|-------------|
| 8' Picnic Table | \$421.36 | 1 | \$421.36 |
| 6' Picnic Table | \$388.36 | 1 | \$388.36 |
| Lumber & Rebar | - | - | \$681.00 |
| 8 Shrubs & 2 Trees | - | 10 | \$228.29 |
| Memorial Tree | \$250.00 | 1 | \$250.00 |
| Mulch | - | 10 cubic yards | \$135.00 |
| Total | | | \$2104.01 |
| Duke Energy Grant | | | -\$1000.00 |
| Memorial Tree Donation | | | -\$250.00 |
| Funding by Huntersville Parks & Recreation | | | -\$854.01 |

Changes:

There were a few complications but they were easily worked out. I planned for 3 full length work days and ended up with 6 work days. Some were all day workdays split up into shifts and some were only for an hour or two. I estimated to have around 150 man hours all together and ended up with around 151 for just workdays and around 18 for planning, putting me at 168 total man hours. We had a little too much mulch but it ended up being spread in other areas around the park. I planned to have six bushes but Parks and Recreation provided eight. I also planned to have all of my bushes outside of the picnic areas, but after they were built I decided it would look better with them inside the upper tier to serve as a “don’t walk off of here” border. We ended up putting the two lower bushes on each side instead of two on one side. The design did change slightly. We went ahead and extended the bottom tier to the sidewalk and shortened the width by about four feet. The original plan for the stairs was to build them at the corner of each tier but we ended up locating them a couple feet inward for extra support. Overall these changes improved my project greatly.

Project Overview:

Overall I think my project went very well. Everything was ordered through Parks and Recreation, and they were able to deliver most of the materials to my project, which made the process a lot easier on me. I had plenty of help for every work day. I had more total man hours than I planned for work days and a few more than planned for planning hours. We ran in to a few minor problems, but they were easily addressed. Some of the holes for the picnic tables had to be re-drilled to fit correctly but it worked out great. One of the most challenging tasks was building the retaining wall. It took the most amount of people and took the longest amount of hours. In some areas the wall was as tall as two and a half feet; resulting in the need for a dead man which is an anchor for the wall. The work was very intensive. I thought building the steps wouldn’t take too long, but it ended up almost being a full workday. We had to nail the majority of the steps into the ground and into the wall behind it for extra support. The trees were a big surprise as to how heavy they were. One of the trees took about 5 guys and a whole hour of a day to move it to the hole it was to go into. We always had plenty of nourishments and safety gear as well as proper adult supervision. I believe that in having everything planned out beforehand, we were able to go about completing the project efficiently.

“After” Photographs





My Life Ambitions

My goals are to continue getting good grades in my senior year of high school and attend Appalachian State University. I am interested in majoring in either Computer Information Systems or Computer Science with a minor in Graphic Design or Sustainable Development. I have always loved working with computers and graphic design. I am the Vice President of the Graphic Design Club and I have been involved in many club projects. I would definitely be interested in joining or founding a computer club at Appalachian. I would love to learn more about computers and design and I hope to have a career path in these fields. On a recent Appalachian campus tour I heard about the Sustainable Development program which I am very interested in because I like the idea of preserving the environment. For years I've been associated with the Straightedge movement which revolves around not smoking or drinking. I would be interested in joining a club that supports these beliefs or even starting a club if there isn't one at Appalachian. I offer good qualities to others around me from being involved in scouting most of my life. In being an Eagle Scout, I have been taught many life skills such as first aid, camping and leadership. I intend to stay involved in scouting as much as I can while not away at college. I would like to one day get married and start a family. I look forward to furthering my career in computers and become successful in that field.