

Eagle Project Packet

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Flower Box and Pavers Construction at St. Francis of Assisi Catholic School Post-Project Report

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August 29 and 30, 2003
September 19 through 25, 2003

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Executive Summary

Project Name: Flower Box and Paver Construction at St. Francis of Assisi Catholic School

Concept Statement: The purpose of the project was to benefit St. Francis of Assisi Catholic School and the entire community around it by landscaping the grounds in front of the school gymnasium and locker room, creating a more aesthetic and peaceful environment within the school grounds.

Sponsor: St. Francis of Assisi Catholic School

Location: St. Francis of Assisi Catholic School

2270 East Stadium Blvd.

Ann Arbor, MI 48104

Dates of Planning: February 10-August 28, 2003

Dates of Execution: August 29 and 30, 2003 and September 19-25, 2003

Total Cash Value: \$ 5,550.65

Hours Summary

Time Frame	Hours
My Planning Time	160 Hours 45 Minutes
My Execution Time	43 Hours
Other Peoples' Planning Time	38 Hours
Helper's Execution Time	113 Hours 45 Minutes
Grand Total	355.5 Hours Spent on Project

Concept/Statement of Purpose

Purpose

The purpose of this project is to benefit St. Francis of Assisi School and the entire community around it by landscaping the grounds in front of the St. Francis of Assisi Catholic School gym and locker room. I will transform a part of the school grounds into a more pleasing and beautiful setting for those in the school and in the neighboring environment. The project will consist of planting low-maintenance shrubs and trees in the flower box in front of the gym over a filler (including gravel, sand, and topsoil) and building a new planter box in front of the locker room and filling it in the same manner, which will be composed of similar (if not identical) weather-resistant wood. The plants will be low maintenance evergreens. Brick pavers will be placed in the rectangular area of dirt in front of the locker room, including the grounds around the “Mr. Maierle bench” to prevent mud from forming. Mr. Maierle was once the principal of the St. Francis Middle School and today is the principal of Father Gabriel Richard High School.

This project will express honor and respect for the former principle and should attract more people to the area, allowing them to rest on the bench in comfort without having to walk through the mud when it rains (or while wet).

Benefits

The main benefactor of this project will be the entire St. Francis community. I will be landscaping an area in front of the school making it more pleasing to the eye, attracting more people to the site while improving the overall public approval of the school. Also, the pavers will prevent soil degradation, erosion and less mud. First impressions are always very important; when someone who has never seen the school comes to it, it is important that they look upon St. Francis as a well-kept and up-to-date facility. Keeping the school grounds in top condition will help it live up to its high standards and represent the excellent value of its learning environment.

Sponsor/Main Contact(s)

Mrs. Deborah Camalo

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work easier I directed the truck through a space between the metal fences on St. Francis Dr., and this way the truck could back right up to the box! This was a major help in slicing off a huge amount of time from the project because all the helpers had to do was rake the topsoil flat; the truck dumped the topsoil right into the flower box. A small part of the topsoil was dumped into the small flower area and the rest in the main part of the box. Meanwhile, the rest of the flowers were being replanted into the designated area. (2 weeks later, I discovered that the replanted flowers were withering. This was most likely because either the planters planted the flowers too high above the topsoil level or because of shock of sudden movement. The flowers are bulbs/perennials, so they should return after the winter season. About 85% of the helpers participated in leveling the topsoil at this time. As the topsoil was being raked, I noticed that the gutter above the gymnasium leaked; however, it did not pose any erosion problems.

At approximately 9:45AM I directed Mr. Thomas to go buy the sheet metal to protect the downspout (from ACE Hardware Store). Mr. Misiak had lent him his pick-up truck for the day, which was extremely helpful later on in the day. In the meantime, the helpers are still raking the topsoil. Mr. Thomas arrived with the sheet metal at 10:00AM. I asked Matthew Siegert and another scout helper to take the sheet metal and three pieces of wire (made from clothes hangers) and tie the sheet metal around the gutter/downspout.

At 10:15AM, the second truckload of topsoil (6 cubic yards) arrived along with the Spruces. After the Spruces were unloaded, the rest of the topsoil was dumped on the grass in front of the locker room. Soon after, a maintenance worker at St. Francis allowed us to use “dollies” and trash containers as makeshift wheelbarrows. This was very helpful; after all of the topsoil in the gymnasium flower box was leveled, the scouts used these dollies to transport dirt from the pile of topsoil in front of the locker room to further fill the gymnasium flower box to the desired level. At approximately 10:30AM, I directed Mr. Thomas to water the shrubs.

At 10:45AM, I called Fingerle to check the status of the lumber. They had no status at the time. The 3 pepperoni and 2 cheese pizzas arrived at 11:30AM, and the pop, plates, napkins, and water were used. About 15 minutes before and 30 minutes after lunch we were waiting for news of the timbers; Fingerle had said that they were not completely sure what the status was and that the timbers were still somewhere in the milling process. While everyone was waiting and since the gymnasium was open, a basketball was taken out so that everyone would not get bored while waiting. This was key in keeping everyone’s morale up.

At 12:00PM ten (10) of the connecting rods were used to construct plum-lines with the string to guide the digging of the trench. Around three to four helpers assisted with this task and dug the trench itself; Mr. Siegert dug most of the trench; the trench itself was started at 12:30AM. After the trench was dug, the sand was put into the trench. It had begun to rain. Around 12:45, the rain became so hard that a few scouts had to take a tarp from the troop trailer to cover the mound of topsoil in front of the locker room to prevent it from running off. Some scouts and other helpers took shovels and began to place as much of the dirt as possible into the designated area for the locker room flower box. Also the gutter over the locker room, probably clogged, began to leak extensively; it leaked so much in one spot that the flowing water caused a rift in an area in the topsoil in front of the locker room, someone suggested placing one of the trash cans underneath the leak to gather the falling water and stop the erosion. This was a very good idea because it made the soil more manageable and stopped more mud from forming. During this time, the trench was being dug. Many of the original helpers have already left, so there were around 6 or 7 helpers in total on the project site after the rain stopped.

I decided that we had waited long enough for the timbers from Fingerle Lumber Company, so I asked Mr. Thomas to take the pickup truck and go to Fingerle to wait for the timbers. When he arrived there, he called me and explained that the timbers had been ready since around 9:00AM! There had been a misunderstanding with Fingerle Lumber Company of the timber status with Fingerle Lumber Company; I later discovered that Fingerle had called my house and said that the timbers were ready for pick up around 10:00AM! Mr. Thomas brought the timbers to St. Francis; however, I realized that the trench had been dug incorrectly (6" too far out from the locker room wall). I had miscalculated and extended the long side of the flower box 4' 6" out from the locker room wall. To correct this, Mr. Siegert re-dug the trench closer to the locker room wall, and the rest of the helpers pushed as much of the sand into the new trench as they could. We had limited amounts of sand to deal with, so we did our best to conserve as much as we could.

As soon as the trench was completed, all of the helpers helped unload all of the timbers from the back of the truck and placed them in front of the locker room near the bench. Because of the initial trench miscalculation, a 6" X 6" X 3' timber was placed on the bottom layer on the leftmost side of the area for the flower box instead of the 6" X 6" X 2' 6 1/2" timber. This did not pose a major problem because all that was needed to correct this was the switching of the bottom and top layers from the original plan; this flowed smoothly as each timber was laid. Each timber was laid as according to the original plan with the exception of the switching places of the top and bottom levels. Leveling tools and adjusting the thickness of the underlying sand, and straightness of the timbers was ensured by using the rods and string similar to the method used to dig the trench. Some of the cuts were not even. Many of the 6" X 6" X 8' timbers were actually a few inches longer than 8'. This affected the placement of the adjacent timbers. The other timber was cut correctly; however, a few scouts had to take a hacksaw to it to allow it to fit properly. (Andrew Birchler walked home (about 2 blocks) to retrieve the saw) It had stopped raining by the time the first timber was laid. While the flower box in front of the locker room was being constructed, one helper was working very hard at digging a trench in the soil behind Area "A" near the gymnasium door in the gymnasium flower box for the timbers to fit into. The bottom layer timber was a little long, and even the sledgehammer was not able to wedge the necessary timber completely into place. Mr. Thomas and I did use the sledgehammer to force the timber in as much as we could; soil was placed underneath that timber to provide a strong, firm base, so it wouldn't be "floating." Another timber of similar size (not all timbers were cut evenly and identical to each other) was placed on top of the previous timber; this brought the timber to a couple of inches below the level of the main part of the gymnasium flower box. Then the three 6" X 6" X 4' 1/2" timbers were placed in the designated area on the leftmost side of the gymnasium flower box. As much as possible of the topsoil was used in front of the locker room, so that as little of the brick sealant as possible was exposed. The downpour did do some good. If it weren't for the rain the topsoil would not have settled, and we would not have been able to tell if we had put in enough of it; topsoil has many air pockets within it, and it will settle. This settling exposed some of the white color of the brick sealant, so we then knew which places in the flower boxes needed more topsoil to cover it up.

The shrubs were planted after the completion of the leveling of the topsoil. They were planted in alternating patterns (Birdsnest Spruce, short; Dwarf Alberta Spruce, tall). They were planted so that the short ones were under the windows so as not to grow and block the view and cross-breeze, and the tall ones were in front of the wall. While planting, I instructed everyone that the planting hole must be approximately twice as

wide as the plant bulb itself and 2/3" as deep so the plant would be in a slight mound; this is so when the topsoil and Spruce/plant settle it doesn't sink below the topsoil level. All of the Spruces/evergreens in both flower boxes were planted in this manner.

The working day was over at around 5:30PM and Mr. Thomas and I left around 6:30PM after cleanup. I broke down the first-aid station and kit and placed them in the locker room along with the pliers, screwdrivers, and other tools. I put the table into the locker room, and placed all other materials, including the brooms and shovels into the wheelbarrow, which I also placed inside the locker room for safe-keeping. I did the same with the drill, drill bits, connecting rods, and the sledgehammer. Mr. Thomas and I finished cleaning up by sweeping the locker room floor, the concrete ramp up to the gymnasium door, and the sidewalk out in front.

Saturday August 30, 2003

Mr. Thomas and I arrived on site at approximately 9:00AM. I set out the table, and I set up the first-aid station, first-aid kit, all necessary tools (gloves and safety glasses), including pliers, screwdrivers, brooms, and shovels, and I also set out and prepared the sign-up/out and safety contract sheets. Mr. Easton, Jonathan Easton and Christopher Easton arrived at 9:30AM. They all signed the safety contract and prepared for the project. I carried out the drilling materials, and the drill was prepared and plugged in.

Still keeping in mind the original plan, I took a marker and "eyeballed" where the anchoring rods would be placed. One was placed at each finger joint (approximately 4" in) and three on each 8' timber along the main section of the flower box; this was to ensure that each timber was anchored to two (2) others. This technique provided for excellent stability. I also "eyeballed" the placement of the anchoring rods for the gymnasium flower box by judging even intervals of space between the holes for the rods. The drill was installed via extension cord to the outlet right inside the gymnasium door. Drilling began on the locker room flower box. Chris Easton (an Eagle Scout) brought a 5/8" drill bit; the other bits provided by Mr. Vasher were either one size too big or one size too small. After Chris drilled through each hole, Jonathan and I hammered in a 20" anchoring rod with the sledgehammer through the wood and into the ground. The rods went in very nicely and smoothly with the exception of one; there was a knot in the wood, and Jonathan and I had to hammer the rod into the wood with exceptional force, though it did go through. About 1/3" of the way through the drilling, we decided that the anchoring rods were going in a little too easily as well as the bit was not spiraled, so the drilled wood would not come out very easily, and if we used spiraled drill bit one size smaller, the anchoring rods would fit more snug. We changed the drill bit, and the extra wood came out on its own as well as the anchoring rods, although a little more force to hammer them in, fit very snug and proved to be very useful. The same procedure was used for the flower box in front of the gymnasium; moreover, the two timbers on the rightmost side of the box held up nicely as the 30" anchoring rods were put into place, even though there were only two of them. The drilling was completed as the last 30" anchoring rods were placed into the wooden timbers on the leftmost side of the gymnasium flower box.

At around 10:30AM I directed Mr. Thomas to buy twenty-one (21) bags of cedar nugget cedar chips for the flower boxes. When he returned, Mrs. Thomas, Mrs. Easton, Mr. Easton, Jonathan and Chris Easton, and myself used rakes and our hands (we all were wearing work gloves) to spread out all of the woodchips so that the area covered would

be about two inches thick, or enough to cover any exposed dirt. We all did this for both flower boxes. Mr. Vasher stopped by St. Francis to pick up the drill, drill bits, sledgehammer, extension cord, and the wheelbarrow.

The workday ended at 12:30PM, and I swept the locker room floor and the concrete walk outside. I also took the table back into the gymnasium and broke down the first-aid station and put all of the materials into the car. I watered the flowers and shrubs thoroughly. Everyone signed out, and the day was over.

Friday September 19, 2003

Mr. Thomas and I arrived on the Project site at 4:30PM (this was after the school day was over). I set up an 8' table as well as the first-aid station, kit, and all of the other necessary materials. A roll of caution tape was on site to mark off some parking places and the project site when not being worked on. I also set out two runners (long towels) for the landscaping team to walk on, leading to the restroom inside the locker room.

Garbacz Landscaping Co. was scheduled to arrive on site at 4:30PM; however, they did not arrive until approximately 6:30PM. Jonathan Meyer arrived at 4:30PM, but since the landscaping company was not there on time; I asked Mr. Thomas to take Jonathan home (at approximately 6:30PM); he had signed the safety contract and the worker sign up/out sheets. Mike Gibson arrived around 5:45PM to watch and assist with the Eagle Project. He helped with set-up and cleanup as well as assisting me with organizing and leading the project.

Upon Garbacz's arrival, the manager and I discussed the Project plan and layout, and shortly after, the 4 to 5 helpers began digging the soil where the small bulldozer (Bobcat) could not reach, in front of the Mr. Joe Maeirle bench. To mark off the general area to be dug, I walked off the border where the pavers were to be located, and a worker used a can of yellow spray paint to mark off where I had walked. One worker used the small bulldozer and began to scoop up large amounts of earth, down to about 8" throughout, in front of the locker room for the pavers. He then began to load the dirt into a "dump-pickup" truck, which was parked right in front of the sidewalk.

At approximately 7:15PM, we found an old piece of buried pipe, which was removed by the bulldozer, using a chain to pull it out. About fifteen (15) minutes later, we found a similar piece of old, buried metal pipe; however, I discovered that it was anchored to a cylindrical cement foundation; this was part of the old chain fence around the locker room area many years ago. This piece of pipe was the exact same kind as the one found earlier. The bulldozer began to pull it out; however, this piece of pipe requires much more time and force to pull out. The force was so great that I feared that the chain was likely to skip. Very inconveniently (and surprisingly!) and at the same time, the charter bus from Traverse City arrived from the Schoolship trip! A whole busload of St. Francis School students and their parents were all crowding around to pick up their children. We kept all well back from the project site, for I did not want anyone to become injured as the bulldozer was pulling the metal post out of the ground! This went successfully, and no one was injured. Also, since the project site was marked off with caution tape, the huge charter bus had to back up the way it had come-in spite of the full parking lot! Mr. Thomas assisted the bus with backing out, and the bus did so smoothly.

The working crew continued to work until around 8:30PM. Two full truckloads of removed dirt were taken away. The landscaping company was also working on a project in a nearby subdivision, and they took the soil there for future use. I discovered that the dirt removed consisted of at least three different layers of soil! Some clay was also

removed with the unearthed dirt. After the company had left, Mr. Thomas and I swept and cleaned up. We took the table, first-aid station, and all the other materials, including the runners, back into the locker room and locked up. The working day was over at approximately 8:30PM.

Saturday September 20, 2003

Mr. Thomas and I arrived at 9:00AM to set up all of the necessary materials, including the first-aid materials, gloves, and safety glasses, which were put away the previous night. The truck from Fendt Builder's Supply arrived approximately 9:00AM, and I had the driver place the seven (7) pallets of brick pavers on the sidewalk in front of the school gymnasium. The dump truck from Hollow Trucking arrived at around 10:00AM, and dumped the slag sand in front of the gymnasium in the parking lot I placed cones around the pile for protection.

Garbacz Landscaping Company arrived around 12:00PM. They immediately began to complete digging out the rest of the soil. This included removing, raking, and flattening the soil; this took about 4 hours to complete. As the crew was digging out the soil, we found a buried drainage cleanout and an electrical conduit on the rightmost side of the area in front of the locker room, which was coming out from the pillar (nearest to the school door) that was not being used. Both were near the school front door. *

Then the 30-A Slag sand was ready to be put into place. Garbacz took their bulldozer scoop-by-scoop and placed each one directly over the area in front of the locker room; however, the sand could not be placed on the dirt all at once. Because of this fact, the workers took shovels to each scoop and spread the sand. This was a **VERY LONG** and tedious process. I helped spread some of the sand. Layer-by-layer the slag sand was put into place, and on top of each layer, a worker took a plate vibrator to the whole area 1 to 2 times over. This was the making of the *sub-base*. The huge amount of work that was put into this was to ensure there was **ABSOLUTELY NO SINKING** of the pavers. Layer-upon-layer of slag sand was put into place throughout the rest of the day. Mr. Walters brought, out of kindness, extra gasoline for the plate vibrator in a specified container; none of the extra gasoline was used.

* As the slag sand was being laid, Mr. Walters brought a hard plastic piece of pipe along with a saw to cut it to size. I used the saw to cut a piece of the pipe off to be placed around the drainage cleanout. After this was completed, the small amount of sand removed to place the pipe in was put back into place. After this, Mr. Thomas went and bought a cover and cap to be placed over the pipe at the cleanout. The cap was successfully placed over the pipe.

The day ended around 7:30PM. Mr. Thomas and I cleaned up around the entire area and placed caution tape and cones around the construction site. Cleanup was similar to that of the other previous days.

Sunday September 21, 2003

Mr. Thomas and I arrived around 1:45PM (after the Sunday masses at the Church) and set up the table, first-aid kit (station), and towel runners. Garbacz Landscaping Company arrived about thirty (30) minutes later. The team continued to place layer-upon-layer of compacted/vibrated sand onto the underlying layers until around 4:00PM. (This was a very long process that lasted most of the day)

At approximately 4:00PM, when the compacted sub-base was **completed**, Garbacz placed metal pipes (about 1" or so) on small mounds of sand running perpendicular to the locker room wall, and they filled sand between the pipes, which were spaced about 4 to 5 feet apart. This made the *base*. They did this process section-by-section, so not all of the area was ready to be paved. Workers were making the base in front of those who were actually laying the pavers. Before the pavers in a certain section were laid, other workers carefully pulled out the metal pipes (these pipes were used as height markers and assisting in making the base), and the spaces they left were then filled in with slag sand. Then the Bobcat brought pallet-by-pallet over to the area in front of the locker room, and the pavers were continually unloaded and placed into the ground. A ninety (90) degree herringbone pattern was used. This pattern was ideal because the longest line of no overlapping was only 1-½ brick; it proved to be a very strong, interlocking design. Workers made all of the necessary cuts in the bricks, so that they would fit nicely against the concrete sidewalk. The setup for the sawing of the bricks was on top of a wooden pallet. I had them stop cutting during the 5:00PM mass, so as not to disturb the parishioners celebrating mass. The workers continued to lay the brick pavers until about 6:30PM. By this time, about a third (1/3) of the total bricks were laid and in place. I discovered that we needed about four (4) more cubic yards of 30-A slag sand, so I ordered from Fendt Builder's Supply and Garbacz Landscaping Inc. to transport four (4) cubic yards of 30-A slag sand to the site. As the sand was being laid, I discovered that I had ordered too much, so Garbacz took their bulldozer and moved the slag sand into the leftmost corner of the parking lot to be removed by them later on.

Mr. Thomas and I cleaned up and packed everything back into the locker room. The day was over at around 7:00PM.

Monday September 22 through Thursday September 25, 2003

Throughout this week Garbacz came by for 2 to 3 hours well after the St. Francis school day was over. On Monday September 22, 2003 it rained, and this rain came through the gutter over the locker room, which caused a rift in slag sand near the locker room wall and somewhat offset some of the bricks (they were fixed to flatness). The bricks were continued to be placed into the ground for about one hour before the rain started. After the rain had become excessively hard, the single worker called it a day and left. Throughout the rest of the week, the remaining pavers, save one (1) pallet were used to fill in the rest of the area in front of the locker room. The edging pieces were used along the border between the brick pavers and the grass; however, not all of the edging pieces were used. On Thursday September 25, 2003 some slag sand was used to fill in as many spaces between the brick pavers as possible; however, the slag sand was too coarse, the grain was too large in diameter to fit in the spaces. During the following weekend, Mr. Thomas and I purchased three bags of play sand. The first bag was too wet to be placed into the cracks, so we had to wait for it to dry. Once dry, we swept all of the sand into the spaces between the bricks; this went very smoothly and efficiently, and it provided a very strong and sturdy place-holder for each brick (this is maintenance work, which is required a few times a year at most). Later during the following week, a couple of bricks, which were over the area of the slag sand that a puddle of water had formed on top of, had sunk in ever so slightly, so Garbacz returned to raise the bricks and make them flat and secure. Also since the accreditation of St. Francis School was on Tuesday and Wednesday of the following week (October 7th and 8th), I directed Garbacz Landscaping Company to remove the remaining slag sand in the corner of the parking lot.

Mr. Thomas and I cleaned up and brought all of the materials back home in our car. We swept up all of the sand/dirt on the sidewalk and in the locker room so as to LEAVE NO TRACE. The day was over and the project was completed around 4:00PM on Thursday September 25, 2003.

Summary of Changes:

- On the day prior to the project execution (August 29, 2003) and after my Pre-Project Board of Review, I purchased three (3) bottles of pop and a pack of 24 bottles of water to be placed into the cooler, which was not included in the pre-project report.
- Not accounted for in the pre-project report, Mr. Thomas used Mr. Misiak's truck for the entire day to transport timbers from Fingerle Lumber Company and other materials, including the cap to cover the pipe around the drainage cleanout.
- During the project:
 1. Two (2) and not three (3) timbers were placed on top of each other near the gymnasium door (marked AREA "A") because of the protruding bottom timber in Chris Easton's flower box.
 2. A single helper took his time out to work very hard at digging the trench for the two timbers to be placed on top of each other near the gymnasium door, making a very clean-cut trench as well as chopping and hacking away the old roots underground.
 3. Not just the Girl Scouts, but girls and boys removed and replanted the black-eyed susans; the flowers were taken from in front of the locker room and placed in the designated area in the gymnasium flower box instead of holding the flowers in burlap sacs or other means of containing them.
 4. A maintenance worker at the school allowed us to use trash bins on "Dollies," which proved very helpful in transporting the topsoil from the pile into the flower boxes.
 5. Because of the timber problem, as much of the topsoil as possible was placed into the area that the locker room flower box was to be placed into.
 6. A trashcan was placed underneath the leaky gutter above the locker room to collect water, which greatly prevented erosion of the topsoil.
 7. Only one coat of masonry sealer was required to seal the gymnasium and locker room walls. Behind the rollers on the gymnasium wall, one scout helper filled in any "missed spots" by using a bristle brush.
 8. A piece of pipe was required to cover the drainage cleanout. The electrical conduit was paved over because it led nowhere, and it wasn't necessary to have a "gate/doorway" to it. Anyway it was underground from the start.
 9. When it rained, a tarp was retrieved from the troop trailer to cover and protect the pile of exposed topsoil from the weather and erosion.
 10. The dump truck from Turner's Nursery backed up through the space in the fence on St. Francis Dr. and backed up right to the box instead of dumping the topsoil onto the ground in front of the gymnasium.
 11. Mr. Thomas directed the Schoolship charter bus out of a full parking lot.
 12. One of the workers accidentally cut himself, so I retrieved a Band-Aid for him from the first-aid kit.

13. On Sunday September 21, 2003 the cord on the plate vibrator, required to start it, broke, so two (2) of the workers had to leave and go to a hardware store to retrieve a spare cord. **I had to speak Spanish (Mexican) to the remaining worker to discover this information.**
14. Mr. Walters provided extra gasoline in a specified container, which was not used, out of kindness to be used in case the plate vibrator became empty.
15. Two (2) foundations for an old chain fence were found buried in the ground, so the Bobcat used a chain to pull the foundations out of the ground.
16. The rain had caused a rift in the slag sand and an unbalance in some of the brick pavers, so Garbacz Landscaping Company returned to fix this problem.
17. I borrowed funds from my parents to pay for my Project because I could not acquire all the funds prior to my Pre-Project Board of Review; I could not ask for donations until the project was approved, **the night before the execution!**

What I learned and What I Would Have Changed

Throughout the entire project there have been many ups and downs; however, in the end, the final product made all of everyone's work pay off greatly. If I could do something like this again I would take it up in a second. This Eagle Project greatly enhanced my leadership, responsibility, and time management skills, especially since the entire project took nearly **9 months!** A major factor in this Eagle Project was persistence and motivation. Sometimes I did not even want to hear about my Eagle Project; however, I knew that many people were counting on me, and my strong motivation to please and not let the people of St. Francis down kept me going. Also, I learned that the accreditation of School was coming quickly in the first week of October, so I knew that I had to finish the Eagle Project by then.

What I would have changed in the Eagle Project would be the process of having Eagle Projects of this magnitude signed off by the Boy Scout board/committee. For example, in my project, thousands of dollars were required for its successful completion, and I could not ask for donations until the Project was approved. If I went through the fundraising process, it could have taken six (6) to nine (9) months to acquire the necessary funds. I decided to borrow from my parents and at the same time went after donations. I have received \$700.00 with \$1,000.00 will be coming from DTE (Detroit Edison) in December and another \$1,000.00 from Meijer grocery store, which should come any day now.

The accreditation of St. Francis School was to take place in a little over a month, so the project had to be completed by then. Other than the fact that issues like this should be covered and completed well in advance, I believe that there is nothing else I would have changed. The Eagle Project went smoothly, and all of the hard work paid off!

Over the course of my Eagle Project, I experienced much stress; however, this stress kept me going strong and even strengthened my resilience, perseverance, and motivation. Since this is a Boy Scout Service Project, I have an obligation to the community and all who live in it to do the absolute best of my abilities.

I chose a Project of this magnitude primarily because of service. I am called by God, my human nature, and Boy Scouts to do service cheerfully and to do it with **complete selflessness**. I have been a member of the St. Francis Parish community and have attended the St. Francis School for two years (7th and 8th grade), and I feel that I should give back to St. Francis all that it has given to me. This Eagle Project in particular is a way of expressing my deep gratitude for St. Francis by allowing members of the

community to admire St. Francis in a more suitable way and exposing a good taste of what St. Francis is really about; service, family, community, companionship, love, and most importantly, the Lord our God.

Completed Tasks List Prior to Project Approval

February

- 2/10/2003
Met with Eagle advisor, Mr. Thomas Niemann, to discuss the Eagle project (1st meeting). Talked about the basics: how to set up a proposal, acquire resources and sponsors, and any other requirement for an Eagle Project.
Read “Life-to-Eagle” handbook.

March

- 3/30/2003
Started writing a rough draft for the Eagle Pre-Project Proposal/Report.
Started writing a rough draft for the contract.
Considered/looked around for some Eagle Project opportunities.
- 3/31/2003
Called potential sponsors, looked around.
Continued work on contract.
Continued to consider Eagle Project opportunities.
Asked Mrs. Deborah Camalo (head of the St. Francis of Assisi Parent Teacher Guild) if anyone needed anything done around St. Francis.
Met with Eagle Project advisor, Mr. Thomas Niemann.

April

- 4/1/2003
Walked around site of potential Eagle Project; made up combinations of things to do for the Project. Surveyed the entire St. Francis School grounds.
Worked on proposal/rough draft.
- 4/5/2003
Narrowed down to, at most, 2-3 potential Eagle projects and further worked on a rough draft for the Eagle Project Proposal.
Went more into detail with narrowed-down Eagle projects.
- 4/7/2003
Narrowed short list of Eagle projects down to **one**.
Discussed with Mr. McNair in great detail the one Eagle project selected.
- 4/14/2003

Further solidified Project idea and crucial details with Mrs. Deborah Camalo (head of the St. Francis of Assisi Parent Teacher Guild).

- 4/15/2003
Further solidified Project idea and crucial details with Mr. Dave Barera (St. Francis of Assisi business manager).
- 4/16/2003
Further worked on Pre-Proposal
- 4/19/2003
Further worked on Pre-Proposal.
- 4/20/2003
Took pictures/surveyed and measured Project Site (St. Francis).
Discussed with members of my family possible donations from their employers (Guarantee Bank, Detroit Edison and the Visteon Corporation).
- 4/21/2003
Reviewed Eagle Project Requirements; re-read “Life-to-Eagle” packet.
Contacted Sponsor to set up a meeting to discuss Eagle Project in more detail.
- 4/26/2003
Searched for gazebos on the Internet.
- 4/27/2003
Plotted map for Eagle Project Site.
Discussed with Sponsor the specifications/dimensions/measurements/layout for the Eagle Project Site.
Further worked on Proposal.
Began work on PowerPoint presentation to be shown to the possible donors.

May

- 5/2/2003
Met with Mr. Niemann (Eagle Project Advisor) to discuss and revise the Eagle Project Backplan.
- 5/4/2003
Further worked on Proposal.
Updated CAD (Computer-Aided Design) to insert the measurements into a design of Chris Easton’s flower box.
- 5/9/2003
Further worked on Proposal; fill any “gaps/missing information” in the Paper.
- 5/10/2003
Discussed with Mr. Thomas the dimensions, makeup, and arrangement of wood blocks in the flower box.
Further worked on Proposal.

- 5/11/2003
Had Eagle Project Contract **approved** at troop meeting (not signed) by Mr. McNair (Scoutmaster).
- 5/13/2003
Had Eagle Project Contract **signed** by Sponsors, Mrs. Deborah Camalo and Mr. David Barera.
Further worked on Eagle Project Proposal and Proposal Maps/Diagrams.
- 5/14/2003
Discussed with Mr. McNair the Proposal and how it should be able to allow someone to follow it exactly to-the-point again; duplicate it.
- 5/15/2003
Talked to the City of Ann Arbor Plan Examiner to see if a permit/special permission was needed; there was/is no need for a permit or permission from the city of Ann Arbor for me to carry out this Eagle Project.
Worked on Eagle Project Proposal “Maps” section; acquire maps of Ann Arbor, directions to St. Francis of Assisi Catholic School, and directions to the nearest Hospital (U. of M. Medical Center).
- 5/16/2003
Worked on Proposal in detail; inserted maps, charts, and other diagrams of the Project construction site.
- 5/17/2003
Updated Proposal according to the outline given to me for the Project Paper; polished it up.
- 5/18/2003
Worked on the Eagle Project Proposal procedure for execution day in great detail.
- 5/19/2003
Mr. McNair signed the Contract.
Met with Scoutmaster and discussed the Proposal.
Surveyed the construction site.
Edit and revised the proposal.
- 5/20/2003
Acquired information from Turners Garden Center and Plymouth Nursery about shrubs and trees and picked out specific plants to put in the Project flower boxes.
Bought a plant landscaping booklet.
Measured Eagle Project construction site.
Further worked on the Proposal.
- 5/21/2003
Searched for suppliers of pavers, sand, and/or gravel.
Further worked on the Proposal.

- 5/22/2003
Continued search for pavers at Fendt Builder's Supply.
Worked on Eagle Project Proposal.
- 5/23/2003
Further worked on the Eagle Project Proposal.
- 5/24/2004
Further worked on the Eagle Project Proposal.
- 5/25/2003
Talked to another paver supplier (Garbacz Landscaping) to discuss paver/bedding costs and installation procedures.
Further worked on the Eagle Project Proposal.
- 5/26/2003
Further worked on the Proposal.
- 5/28/2003
Further worked on the Proposal.
- 5/29/2003
Further worked on the Proposal.
- 5/30/2003
Further worked on the Proposal.
Upon my request, Mr. Thomas reviewed the Proposal.
- 5/31/2003
I revisited Turner's and Fendt, the supplier's shrubs and pavers.

June

- 6/22/2003
Reviewed the Project Proposal and made sure that it was ready for the meeting with the committee on 6/27/2003.
- 6/27/2003
Met with Mr. Spencer and Mr. McNair to review Proposal.
Prepared for the Pre-Project Board-of-Review.
- 6/29/2003
Worked on the Proposal.
- 6/30/2003
Further worked on the Proposal.

July

- 7/24/2003
Discussed changes to the site layout with Mrs. Camalo; the Birdsnest spruce nearest to the gymnasium door would be removed, and the timber barrier in the same location would be pushed back to make room for the uprooted flowers.
Further worked on the Proposal.
- 7/25/2003
Worked on the Proposal.
- 7/26/2003
Met with Alan Taylor and went through the PowerPoint presentation also discussed potential donations from his companies, Technical Elevator Consulting and Thyssun Krupp.
- 7/27/2003
Worked on the Proposal.
- 7/28/2003
Met with John Thomas and went through the PowerPoint presentation also discussed potential donations from his companies, Visteon Corporation.
- 7/28/2003
Further worked on the Proposal.
- 7/29/2003
Reviewed the Project Proposal with Mr. Spencer (Committee Chairman).
- 7/30/2003
Further worked on the Proposal.
- 7/31/2003
Met with Larry Watkins of DTE Energy and went through the PowerPoint presentation also discussed potential donations from his company, DTE Energy.

August

- 8/10/2003
Looked for masonry (brick) sealant at ACE Hardware store, **UGL Drylok (White) Latex sealant. It requires 3 hours between coats to set and 2 coats to complete.**
- 8/12/2003
Further worked on the Proposal procedure in detail; times, dates, helpers, etc.
- 8/13/2003
Further worked on the Proposal procedure in detail; times, dates, helpers, etc.
- 8/14/2003

Fine-tuned the Procedure; reviewed times, helpers, dates, and efficiency (cost, labor, and time).

- 8/15/2003
Reviewed and proofread the Procedure.
- 8/16/2003
Contacted Girl Scout Ms Thomas/Rachel Thomas on the Scouts helping with my Eagle Project.
- 8/17/2003
Fine-tuned the procedure.
Walked through the procedure with future helpers.
- 8/18/2003
Calculated the necessary dimensions of the Locker Room Flower Box; I found out the proper locations for the steel connecting/anchoring rods (*See Figure 7*).
Took a string and measured the distance from the nearest working water spigot to the leftmost location of the gymnasium flower box for the proper length of hose.
- 8/19/2003
Contacted Turner's Nursery; acquired prices for shrubs and discussed Project. I DID NOT ASK FOR DONATIONS. I discussed with them whether or not they would deliver shrubs and/or topsoil. Introduced them to the Project and what would be occurring.
Contacted Best Bank; asked if they would be willing to donate; they will look in to it. I DID NOT ASK FOR DONATIONS. I discussed with them the Project.
- 8/20/2003
Contacted Turner's Nursery; re-acquired prices.
Met with a salesperson from Fingerle Lumber Company; discussed with him the flower boxes in detail so as to acquire prices and materials. I asked if Fingerle would be willing to donate materials and/or give a discount. I discussed the Project with him and he said Fingerle would look into it. I DID NOT ASK FOR DONATIONS.
Revised letters to potential sponsors; corrected donation requests.
- 8/21/2003
Revised letters to potential sponsors; corrected names and donation requests.
Contacted potential sponsor, Best Bank, to set up a meeting for Thursday (August 28, 2003) to discuss the Project. I will ask if Best Bank would be willing to donate funds toward my Eagle Project.
- 8/22/2003
Worked in detail on the locker room flower box; worked out the number of rods and timbers.
Contacted Jack Vasher to discuss possible donations of the anchoring rods.
- 8/23/2003

Measured with a string the distance from the water spigot to the gymnasium flower box to get distance where garden hose must reach; it was approximately 150 feet which is two 75 foot garden hoses.

Contacted Turner's Nursery to see if they carried Peat Moss (Canadian Peat); they do. I also found out the prices: $1\text{ft}^3=\$6.99$ and $3.8\text{ft}^3=\$16.99$

I finalized the Eagle Project for the Pre-Proposal Board-of-Review; I went page-by-page, proofreading the entire Project Proposal, especially the Procedures.

- 8/24/2003
Contacted individual Girl Scouts, to reaffirm their assistance.
- 8/25/2003
Contacted Miss Dig with information and received a worker confirmation number (30463072) to complete the inspection by August 29, 2003.
- 8/25/2003
Asked for volunteers at the troop meeting.
- 8/25/2003
Followed up with Mr. Vasher to bring his drills, drill bit, wheelbarrow and the anchoring rods on Thursday (August 28, 2003).
- 8/26/2003
Telephoned possible volunteers to confirm their availability.
- 8/27/2003
Met with the Branch Manager of Best Bank to answer any questions.
- 8/28/2003
Reconfirmed with Ms Angie Torongo of Domino's Pizza that 5 large pizza's would be delivered to the project site by 11:15AM on August 29, 2003.
Prepared and finalized the pre project proposal for the District Board review.
Purchased soda, paint, and rollers for the Project on the next day.
Project approved by BSA District Committee.

Post Project Completed Tasks List

Project Dates: August 29, 30 and September 20 & 25, 2003.

Rain Dates: August 31, September 1 and September 20 & 21 2003.

- 9/1/2003
Purchased two bags of cedar nuggets to fill in gaps where the white sealant was showing in the flower box.
Purchased a splash-guard and installed it on the downspout to the right of the locker room flower box to prevent the excess water from flooding the area. -2hrs 30min
- 9/6/2003
Began work on the Post Project Report.

- 9/15/2003
Announced at the Scout meeting that the second half/phase of my Eagle Project, the Paving installation, will be occurring on the following weekend. I set out the sign-up sheets and described to the scouts the process of installations throughout the weekend.
- 9/16/2003
Purchased the brick pavers, 30-A slag sand, edging, and edging nails from Fendt Builder's Supply. Fendt only had flatbed trucks, so another company must transport the 30-A slag sand. A contact list for transporting companies was given to me by Fendt.
- 9/17/2003
Contacted Hollow Transportation to arrange a delivery sand, 12 yards, from Fendt Builder's Supply to St. Francis of Assisi Catholic School.
- 9/18/2003
Purchased 1 roll of caution tape to be used during the following weekend and week for the paving installation so that no one will be able to enter the construction area. I also purchased masonry pencils, water, gloves, and ice.
- 9/25/2003
Mr. Thomas and I swept in fine sand to fill into all of the spaces between each brick paver.

Safety Considerations

Emergency Number: 9-1-1

Nearest Hospital: 1500 E Medical Center Dr.
Ann Arbor, MI

There will be **at least one** medical/first-aid kit in the area. There will be at least one CPR-trained and first-aid trained adult present at all times; Boy Scouts who have earned the first-aid merit badge may also be on site. I will have a Boy Scout Handbook and a cell-phone, with 9-1-1 programmed into its memory, on site along with safety glasses and work gloves. There will also be water in coolers to prevent dehydration. Some injuries that could occur during the execution of this Eagle Project include:

- minor/major (deep) bruises, scrapes, pinched fingers, and/or cuts
- puncture wounds
- bleeding
- simple fractures (human error with: hammer and/or wooden timbers)
- blisters on hands/feet

Safety Agreement

Dear Parents of the Boy Scouts and other helpers,

During my Eagle Project, there will be a need for the use of power tools. These will be a power drill for the pilot holes to be inserted in the wooden timbers. All **adult** helpers working with or near these tools will be required to wear safety goggles and work gloves for protection. **NO SCOUT OR YOUTH MAY BE AROUND THE MACHINES DURING OPERATION!** Only trained adults will be operating the drill. This is to ensure maximum safety for everyone.

In order for your son to be able to work in close proximity of these tools, your permission is required. If these conditions are applicable to you, then please sign your name here.

Parent or Legal Guardian (Supervisor)

Scout/Helper

Thank you for your support,

John Thomas
Eagle Project Manager and Executor

Dear Mrs. Fingerle,

Thank you ever so kindly for your assistance with my Boy Scout Eagle Service Project. It went smoothly, and all financial needs were covered. Thank you very much for your assistance with the gathering of the cans and bottles. That was very generous of you,

and it made my project such a success. Without your help, my Eagle Project may have not have gone as smoothly as it did. Thank you once again.

Sincerely,

John G. Thomas

Dear Mr. Fingerle,

Thank you ever so kindly for your assistance with my Boy Scout Eagle Service Project. My project in front of St. Francis of Assisi Catholic School went very smoothly with your help. The new flower box is a great attachment to the school, and countless people have commented on its beauty. This could not have been possible without your help. I also would like to thank you on your great customer service; please give my regards to Mr. David Thompsett, for he helped me greatly with deciding how to place the timbers in a way so that they will always stay firmly in place, and he helped me find out the cost of everything from the timbers themselves to the cuts. As a special thank you, Fingerle Lumber Company agreed, upon my request, to have its advertisement in my high school yearbook. Once again, I cannot thank you enough for your help. Thank you.

Sincerely,

John G. Thomas
Project Manager and Executor

Dear Mrs. Camalo and Mr. Barera,

I would like to thank you greatly for your help and approval with my Boy Scout Eagle Service Project. My Eagle Project would not have been possible without your approval and generous faith in me. I thank you once again for your efforts and assistance with my Eagle Project.

Sincerely,

John G. Thomas
Project Manager and Executor

Dear Mr. Alan Taylor,

Thank you very much for your assistance with my Eagle Project for Boy Scouts. The financial contributions from Technical Elevator Consulting and ThyssenKrupp

allowed my Eagle Project to run very smoothly. I have all financial needs covered, and this could not have been possible without your help. Once again, thank you very much.

Sincerely,

John G. Thomas
Project Manager and Executor

Dear Mr. Vasher and DTE Energy,

Thank you very much for your assistance with my Eagle Project by donating the steel connecting rods and letting me use the electric drill. Without your generous help and efforts, my project would not be complete and where it is today. The new flower box is a great attachment to the school, and countless people have commented on its beauty. This could not have been possible without your help. Once again, I greatly thank you for your efforts.

Sincerely,

John G. Thomas
Project Manager and Executor

Dear Andrew Birchler,

Thank you very much for your assistance with my Boy Scout Eagle Service Project. It would not have been possible without your generous help and efforts. I also would like to thank you for walking back to your house on the day of the project to retrieve a hacksaw to cut one timber down to size. Without your help, the flower box would not have been completed. Once again, I thank you ever so kindly.

Sincerely,

John G. Thomas
Project Manager and Executor

Dear David Faling,

Thank you very much for your help with my Boy Scout Eagle Service Project. It would not have been such the success that it was without your generous help and efforts.

I also would like to thank you for your assistance and leadership with the transportation of the flowers and plants. I couldn't be in two places at once, and your help greatly helped me and saved me and everyone else much confusion. The Eagle Project ran very smoothly because of your decision to assist me with my project. Once again, I thank you greatly.

Sincerely,

John G. Thomas
Project Manager and Executor

Dear Mr. Siegert,

Thank you very much for your help with my Boy Scout Eagle Service Project. It would not have been such the success that it was without your generous help and efforts. I also would like to thank you very much for your painting the masonry brick sealant onto the locker room wall. You did such a good job that I noticed that you did not miss a single spot of brick; you only had to go over the brick wall once, and I greatly thank you for that. Your efforts and assistance saved the project much time. Also, I would like to thank you very much for your assistance with the error I made with the placement of the flower box in front of the locker room. When I found out that trench was placed 6" out from where its was originally planned to be, you suggested digging a new trench and replacing the sand very carefully into the new one. I thank you very much for this as well as your digging of the trench. You dug the trench beyond my expectations, and it was dug very smoothly and precisely. Thank you. The Eagle Project ran very smoothly because of your decision to assist me with my project. Once again, I thank you greatly.

Sincerely,

John G. Thomas
Project Manager and Executor

Dear Mrs. Spencer,

Thank you very much for your help with my Boy Scout Eagle Service Project. It would not have been such the success that it was without your generous help and efforts.

I did not expect you to be present, and your help greatly was appreciated. The Eagle Project ran very smoothly because of your decision to assist me with my project. Once again, I thank you greatly.

Sincerely,

John G. Thomas
Project Manager and Executor

Dear Alex,

Thank you very much for your help with my Boy Scout Eagle Service Project. It would not have been such the success that it was without your generous help and efforts. By you working very hard on digging the trench in front of the gymnasium, you saved us so much time, and I greatly appreciate your help. The Eagle Project ran very smoothly because of your decision to assist me with my project. Once again, I thank you greatly.

Sincerely,

John G. Thomas
Project Manager and Executor

Dear Mr. Walters,

Thank you very much for your help with my Boy Scout Eagle Service Project. It would not have been such the success that it was without your generous help and efforts. I also would like to thank you for all of the extra help you gave during the project. First of all, thank you very much for bringing the pipe and saw; without these, the paver-laying process would have had to be stopped completely. Secondly, thank you for bringing the extra can of gasoline for the plate vibrator in case extra gas was needed. I also greatly appreciate you running these errands for the sake of my Eagle Project and how you took time off of your schedule to do this for me. The Eagle Project ran very smoothly because of your decision to assist me with my project. Once again, I thank you greatly.

Sincerely,

John G. Thomas
Project Manager and Executor

Dear Turner's Nursery,

Thank you very much for your help with my Boy Scout Eagle Service Project. It would not have been such the success that it was without your generous help and efforts.

The Dwarf Alberta and Birdsnest Spruces look beautiful in the grounds in front of St. Francis of Assisi Catholic School and the twelve (12) cubic yards of topsoil you sold are keeping the spruces in very good health. Countless people have commented on the plant's beauty. This could not have been possible without your help. The Eagle Project ran very smoothly because of your decision to assist me with my project. Once again, I thank you greatly.

Sincerely,

John G. Thomas
Project Manager and Executor

Dear Mr. Bryan Herter and Fendt Builder's Supply,

Thank you very much for your help with my Boy Scout Eagle Service Project. It would not have been such the success that it was without your generous help and efforts. Thank you ever so kindly for supplying me with the 4"X8" Rustic Holland brick pavers and all necessary materials, and thank you even more for the generous fifty (50) percent discount. Through your time and efforts, countless people have commented on the beauty of the newly laid pavers. The Eagle Project ran very smoothly because of your decision to assist me with my project. Once again, I thank you greatly.

Sincerely,

John G. Thomas
Project Manager and Executor

Dear Garbacz Landscaping Inc.,

Thank you very much for your help with my Boy Scout Eagle Service Project. It would not have been such the success that it was without your generous help and efforts.

I greatly appreciate you coming out and donating your time, while working on another job, to prepare the ground and lay the pavers in front of St. Francis of Assisi Catholic School. You did an extremely outstanding job, and countless people have commented on the beauty of the job. I cannot thank you enough for your time, efforts, and generosity. Your work will continue to amaze countless more people who see the magnificent work you have done. Thank you. The Eagle Project ran very smoothly because of your decision to assist me with my project. Once again, I thank you greatly.

Sincerely,

John G. Thomas
Project Manager and Executor

Dear,

Thank you very much for your help with my Boy Scout Eagle Service Project. It would not have been such the success that it was without your generous help and efforts. The Eagle Project ran very smoothly because of your decision to assist me with my project. Once again, I thank you greatly.

Sincerely,

John G. Thomas
Project Manager and Executor

Appendix A

Materials	Quantity	Cost Per Unit	Source	Est. Cost	Final Cost
Timbers					
6"x6"x8' Rough Red Pine Landscape Timbers	15	\$17.98	Fingerle Lumber Company	\$269.70	\$179.62
Cuts (Performed by Fingerle Lumber Company)	12	\$5.00	Fingerle Lumber Company	\$60.00	\$24.00
Water (bottled)	2 packs (24)	\$4.55	Meijer Grocery Store	\$9.10	\$9.10
Steel Anchoring Rods-30" Long	7	\$4.71	Jack Vasher-DTE	\$32.97	\$0.00
Steel Anchoring Rods-20" Long	20	\$4.71	Jack Vasher-DTE	\$94.20	\$0.00
Splash Block	1	\$6.31	The Home Depot	\$6.31	\$6.31
Copy of Project	10	\$0.99	John Thomas	\$9.90	\$9.90
Play Sand	4 50lb-bags	\$2.99	Franks Nursery and Lowe's	\$11.96	\$11.96
Shrubs					
Dwarf Alberta Spruce-1gal pot	3	\$29.95	Turner's Greenhouse/Nursery	\$89.85	\$89.85
Dwarf Alberta Spruce-2gal pot	2	\$39.95	Turner's Greenhouse/Nursery	\$79.90	\$79.90
Birdsnest Spruce	6	\$29.95	Turner's Greenhouse/Nursery	\$179.70	\$179.70
Topsoil	12yds	\$33.00/Yard	Turner's Greenhouse/Nursery	\$396.00	\$396.00
Delivery	1	\$30.00	Turner's Greenhouse/Nursery	\$30.00	\$30.00
Cedar Nuggets	23 Bags	\$3.62	Turner's Greenhouse/Nursery	\$83.26	\$83.26
Work Gloves	11 pair	\$1.39	Meijer Grocery Store	\$15.29	\$15.29
Masonry Crayons	6	\$0.65	Lowe's Home Improvement	\$3.87	\$3.87
6" MIPT Plug PVC	1	\$3.96	Lowe's Home Improvement	\$3.96	\$3.96
6" SPXFIPT ADPT PV	1	\$7.40	Lowe's Home Improvement	\$7.40	\$7.40
Pavers (700 sq. ft., 6.4 Pallets, 108 ft/pallet)	3,062	\$0.58	Fendt Builder's Supply	\$1,825.29	\$912.60
Labor	N/A	\$1,200.00	Garbacz Landscaping	\$1,200.00	\$0.00
30-A Slag Sand	16.0 yds	\$33.00 per yard	Fendt Builder's Supply	\$528.00	\$106.74
Snap Edge (edging), 8' long pieces	6 pcs.	\$9.50	Fendt Builder's Supply	\$57.00	\$38.00
Nails (12" long)	44	\$0.25	Fendt Builder's Supply	\$11.00	\$5.50
Pallets (deposit only)	7	\$14.00	Fendt Builder's Supply	\$113.00	\$98.00
Delivery-Pavers	1	\$50.00	Fendt Builder's Supply	\$50.00	\$50.00
Delivery-Slag Sand (12 yds.)	1	\$248.00	Hollow Trucking Company	\$248.00	\$45.00
Caution Tape	1 roll	\$8.47	Lowe's Home Improvement	\$8.47	\$8.47
Pop/Soda (1 quart) plus \$0.20 deposit	3	\$1.19	Mac's Convenient Store	\$3.77	\$3.77
UGL Drylock Latex Brick Sealant (125ft ²)	1gal	16.99/gal	Meijer Grocery Store	\$16.99	\$16.99
Pure Bristle Brush	2	\$4.79	ACE Hardware Store	\$10.15	\$10.15
9" Toss Away Paint Set	2	\$3.99	ACE Hardware Store	\$8.46	\$8.46
Sheet Metal	1	\$6.99	ACE Hardware Store	\$6.99	\$7.41
Plant landscaping booklet	1	\$3.18	John Thomas	\$3.18	\$3.18
White Project Board	1	\$6.99	Office Max	\$6.99	\$6.99
Folders - Clear Front	1 pack of 5	\$4.99	Office Max	\$4.99	\$4.99
Large Pepperoni Pizzas	6	\$6.50	Domino's Pizza	\$39.00	\$0.00
Large Cheese Pizzas	4	\$6.50	Domino's Pizza	\$26.00	\$0.00
Total Estimated Cost				\$5,550.65	\$2,456.37
Grand Total					

Appendix A1

<u>Tools</u>	<u>Quantity</u>	<u>Source (Donated)</u>
Shovels	5	Scouts
Spades	5	Scouts
Hammer	2	John Thomas
Magic Markers	2	John Thomas
Wheelbarrows	2	Scouts
Hard Rakes	5	Scouts
Broom	4	Scouts
Tape Measure	2	John Thomas
Garden Hoe	4	Scouts
Camera	1	John Thomas
Cell Phone	1	John Thomas
4' Levels	2	John Thomas
Sun lotion	1 - 2 Bottles	John Thomas
First-aid kit	1	Troop trailer
Plastic Cups	50	John Thomas
Paper plates	50	John Thomas
Napkins	100	John Thomas
Drill	1	Mr. Vasher
Drill Bit (1/2, 5/8, 3/4)	1 each	Mr. Vasher
Tent Stakes	12	John Thomas
Safety Goggles/Glasses	8 Pairs	John Thomas
Garden Hose-75 foot-long	2	John Thomas
Garbage Bags	1pack	John Thomas
Wrench	2	John Thomas
String	1 roll	John Thomas

Appendix B

Date	Hours (Me)	Hours (Scouts)	Hours (Adults)	Action
2/10/03	1hr		1hr	First meeting with Mr. Niemann; discussed basics of Eagle Project
3/30/03	2hrs 30min		30min	Contract, Proposal
3/30/03	1hr 30min		30min	Met w/Mr. Thomas to discuss potential sponsors
3/31/03	45 min			Contract, called potential sponsors, pondered projects
3/31/03	30 min		30min	Met w/Mr. Niemann to discuss contract and proposal
4/1/03	45 min		45min	Walked around St. Francis w/Mr. Thomas to visualize projects
4/1/03	1hr		30min	Met w/Mr. Thomas to discuss the proposal
4/5/03	1hr		45min	Potential Eagle Project work
4/5/03	1hr		30min	Met w/Mr. McNair for project ideas
4/7/03	30 min		30min	Met w/Mr. McNair/Mr. Niemann to narrow project ideas down to one
4/14/03	30min		30min	Confirmed Project idea w/Deborah Camalo
4/15/03	30min		30min	Confirmed Project idea w/David Barera
4/16/03	45min			Proposal
4/19/03	1hr 30min		30min	Worked on and met w/Mr. Thomas to discuss the proposal
4/19/03	2hrs			Proposal
4/20/03	1hr		30min	Worked on and met w/Mr. Thomas to discuss the Proposal
4/20/03	45min			Took pictures of site and measured it
4/20/03	30min		30min	Met w/relatives to discuss possible company donations
4/21/03	30min		30min	Met w/Mr. Thomas to discuss Eagle Project requirements
4/25/03	30min		30min	Met w/relative (Marci) to discuss company donations
4/26/03	45min		30min	Met w/Mr. Thomas to look around for gazebos
4/27/03	30min			Drew up a map for the Eagle Project site
4/27/03	1hr		1hr	Met w/Mrs. Camalo to discuss Project details
4/27/03	30min		30min	Met w/Mr. Thomas to discuss Project dimensions/location
4/27/03	45min		45min	Met w/Mr. Thomas; further measured/ visited the Project site
4/27/03	45min			Proposal, worked on bank/DTE/donor presentation
4/27/03	1hr 30min			Proposal
5/2/03	1hr 30min		2hrs	Discussed/Revised Backplan
5/4/03	1hr 30min		1hr 30min	Proposal, Computer Aided Design drawings
5/9/03	1hr 30min			Proposal, Looked around for shrubs/flowers/other plants at Turner's
5/10/03	1hr 45min		30min	Proposal, Discussed flower box
5/11/03	30min		30min	Approval of Contract
5/13/03	15min		15min	Sponsor signed Contract
5/13/03	30min			Proposal
5/13/03	30min			Proposal (maps)
5/13/03	45min			Proposal
5/14/03	30min		30min	Discussed with Mr. McNair the Project Proposal
5/15/03	15min		15min	Called Plan Examiner of Ann Arbor about paver permit
5/15/03	30min			Proposal, Maps
5/16/03	1hr 30min			Proposal
5/16/03	30min			Proposal
5/17/03	1hr 30min			Proposal
5/18/03	3hrs 30min			Proposal
5/19/03	30min		30min	Mr. McNair signed the Contract
5/19/03	30min		30min	Discussed and reviewed the Eagle Project Proposal
5/19/03	30min			Surveyed the Project Site
5/20/03	30min		30min	Me/Mr. Thomas found specific shrubs to plant in the flower boxes
5/20/03	30min		30min	Me/Mr. Thomas measured the Eagle Project site
5/20/03	15min			Bought a plant/shrub guide

5/20/03	30min			Proposal
5/20/03	3hrs			Proposal
5/21/03	30min			Searched around for donors
5/21/03	30min		30min	Mr. Thomas and I searched for pavers
5/21/03	1hr 45min			Proposal
5/22/03	30min		30min	Met with Mr. Thomas to look at pavers
5/22/03	1hr 30min		1 hr	Met with Mr. Thomas to work on the Proposal
5/23/03	1hr			Proposal
5/24/03	1hr 45min			Proposal
5/25/03	1hr 30min		1hr 30min	Discussed paving installation with Fendt representative
5/25/03	1hr 30min		30min	Met with Mr. Thomas to work on the Proposal
5/25/03	45min		45min	Met with Mr. Niemann to discuss Proposal revisions
5/26/03	6hrs			Proposal
5/28/03	3hrs 30min			Proposal
5/29/03	3hrs 30min			Proposal
5/30/03	30min			Proposal
5/30/03			30min	Requested that Mr. Thomas review the Proposal
5/31/03	1hr 30min			Searched around for shrubs and pavers
5/31/03	45min			Proposal
6/8/03	30min			Proposal
6/22/03	30min			Proposal
6/27/03	3hrs		3hrs	Meeting with Mr. Spencer/Mr. McNair to review Proposal
6/29/03	5hrs 30min			Proposal
6/30/03	1hr			Proposal
7/24/03	30min		30min	Discussed changes to the site layout
7/24/03	1hr 30min			Proposal
7/25/03	2hrs			Proposal
7/26/03	30min		30min	Meeting with Alan Taylor (Technical Elevator Consulting)
7/27/03	2hr			Proposal
7/28/03	2hr 30min			Proposal
7/29/03	1hr 45min		2hrs 30min	Proposal Review with Mr. Spencer/Mr. Thomas
7/30/03	1hr 30min			Proposal
8/12/03	30min			Proposal
8/13/03	1hr 30min			Proposal
8/14/03	1hr			Proposal
8/15/03	1hr			Proposal
8/16/03	3hrs 30min			Proposal
8/17/03	2hrs			Proposal
8/18/03	3hrs 30min			Proposal
8/19/03	30min			Proposal
8/19/03	1hr 30min			Contacted possible donors, Turner's Nursery and Best Bank
8/20/03	2hrs 30min			Proposal/Contacted possible donors
8/21/03	1hr			Proposal/Contacted possible donors
8/22/03	30min			Worked on the Locker Room Flower Box
8/22/03	30min		30min	Contacted Jack Vasher about connecting rods from DTE Energy
8/23/03	3hrs 30min			Finalized the Eagle Project Proposal
8/24/03	30min			Contacted Girl Scouts to confirm participation in project
8/25/03	30min			Announced Project at Boy Scout meeting
8/25/03	30min			Called Miss Dig to set up an inspection of site before August 29, 2003
8/25/03	30min		30min	Reconfirmed with Mr. Vasher that drill, etc. would be on site on Date
8/26/03	30min			Called possible volunteers to confirm their participation in the Project
8/27/03	2hrs			Met with Best Bank branch manager to answer any questions
8/27/03	3hrs			Prepared the Proposal for the District Approval
8/28/03	4hrs			Prepared for and had the Eagle Project Proposal Approved