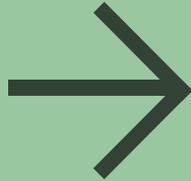


Church Concrete Construction

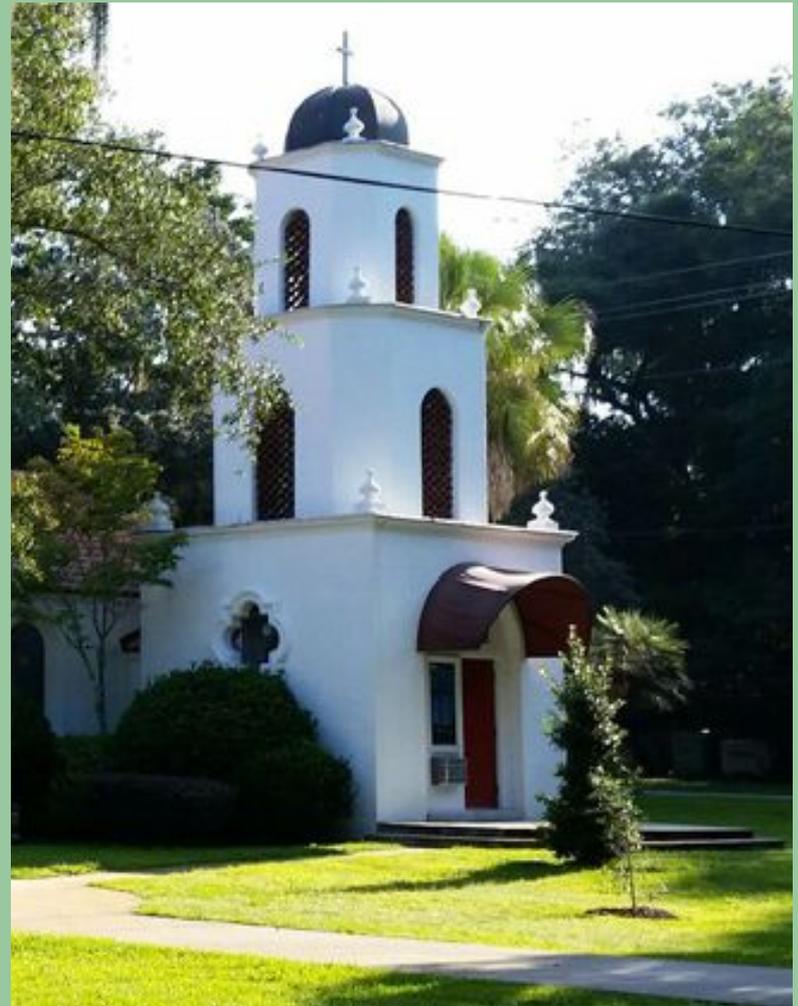
Isabelle Zantow



Initial Issue

Lord of Life Lutheran, a church in the Glynn County community, was undergoing renovation and needed some help. They recently removed a concrete pad behind their fellowship hall which impacted many other aspects of the church.

- Safety
- Pollution
- Trash-can visibility



Plans Change...



01—CEMENT PAD + AWNING

Plan - Replace cement pad

Action - Replaced cement pad

02—CEMENT BENCHES

Plan - Replace the cement benches and stabilize the ground under them

Action - Removed broken bench, moved other bench to a new area

03—BROKEN SIDEWALK

Plan - Grind down and seal any unsafe sidewalk

Action - Evened out cement slab with cement putty

04—FENCING TRASH CANS

Plan - Fence in trash cans

Action - Moved trash cans to the new cement pad behind the church, used the money allocated to relay a paver path instead

Solving Issues



01

—CEMENT PAD

- **Issue:** Broken cement behind fellowship hall, couldn't safely store trash cans there, uneven ground caused unsafe conditions to walk on and support the awning
- **Action taken:** Removed remaining cement pieces and bricks, laid a new cement pad, renewed the awning support posts and mounted them correctly

02

—PAVER PATH

- **Issue:** Uneven paver path between breezeway and prayer garden
- **Action taken:** Removed and cleaned pavers, laid down paver sand, relaid pavers evenly

03

—UNEVEN CEMENT

- **Issue:** Cement crack caused two pieces of sidewalk to buckle upwards creating an uneven step where many people fell
- **Action taken:** Cleaned cement, laid down cement putty to create a slope

A Project Through Photos...



The Finished Project



CEMENT PAD



PAVERS



(UN)EVEN CEMENT

Logistics (team)



Everybody who volunteered to help me with my project:

- Laura Pittman (Project Advisor)
- Eric Overholser (Expert Advisor)
- Tori Sanchez (Girl Scout)
- Dillan Cowley (Girl Scout)
- Jonah Vicent (Friend/Eagle Scout)
- Blake Callaway (Friend/Eagle Scout)
- Caleb Rowell (Friend)
- Jack Cheetham (Church Member)
- Dave Erickson (Church Council)
- Rick Apfel (Church Council)
- Lucy, Byron, Racie (Family)



Logistics (money)



This project cost \$819.78!

I bought supplies at 2 places:

- Lowes
- JC Strother

LOWE'S
LOWE'S HOME CENTERS, LLC
300 GLYNN ISLES
BRUNSWICK, GA 31525 (912) 261-3169

- SALE -

353630 42-84 REMESH SHEET 6.93FT	18.48
1215587 WEDGE 1/2 X 3-3/4 10CT (1	14.48
2551509 SIK A 1 GAL READY-MIX CONC	29.98

SUBTOTAL: 62.94
TAX: 3.78
INVOICE 02784 TOTAL: 66.72
DEBIT: 66.72

LOWE'S
LOWE'S HOME CENTERS, LLC
300 GLYNN ISLES
BRUNSWICK, GA 31525 (912) 261-3169

- SALE -

108719 ABA442 4-4 POST BASE (+24	51.92
4 @ 12.98	
523431 6-CT AFS 3/16-IN ALLIGATO	3.48
10365 QUIKRETE 80-LB CONCRETE H	23.48
4 @ 5.87	
12180 1/2-IN X 16-IN RA-SHEET R	26.24
8 @ 3.28	
353630 42-84 REMESH SHEET 6.93FT	73.92
4 @ 18.48	

SUBTOTAL: 179.04
TAX: 10.74
INVOICE 01251 TOTAL: 189.78
DEBIT: 189.78

QUOTE

J.C. Strother
Company Inc
221 W. Mallory Street
SAINT SIMONS ISLAND, GA 31522
(912) 638-8801

QUOTE TO:
LORD OF LIFE LUTHERAN CHURCH
2801 FREDERICA RD
ST SIMONS ISLAND, GA 31522

ITEM	DESCRIPTION	QTY	SALE	U/M	EXT
ROGRAVEL	80# QUIKRETE CONCRETE MIX	84.00	5.85	BC	491.40
PALLET	BONSAL PALLETS-PLEASE	2.00	20.00	EA	40.00

Lutheran church
0221995

I AGREE TO PAY THE ABOVE TOTAL ACCORDING TO THE POSTED TERMS AND CONDITIONS

SIGNATURE _____ Authorized Signer

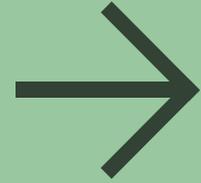
SUBTOTAL \$ 531.40
GA STATE \$ -21,256.000
GLYNN CO \$ -10,628.000
TOTAL \$ 563.28

Hour Breakdown (83 hours)



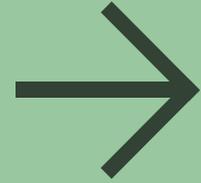
Planning/Research - 27 hours (4/20/22 - 6/16/22)	<ul style="list-style-type: none">- Found an issue to address- Researched the extent of the issue (ex: pollution, safety concerns, etc)- Planned how to fix it (ex: best cement to use, how much was needed, etc)
Shopping/Set Up - 21 hours (6/16/22 - 6/18/22)	<ul style="list-style-type: none">- Made a list of needed materials (ex: cement, cement mixer, wire mesh, etc) needed- Went to Lowes, JC Strother to buy materials- Brought all materials to the work site and unloaded/staged it for the upcoming project
Implementation - 33 hours (6/18/22 - 6/24/22)	<ul style="list-style-type: none">- Prepped area for new cement pad- Poured new cement pad- Relaid paver path- Evened out sidewalk crack/step
Clean Up/Debrief - 2 hours (6/26/22)	<ul style="list-style-type: none">- Tore down all equipment- Final survey of the church

How it Impacts Others



-
- Community physically safer
 - Safe to walk on even sidewalk, cement pad is even and a larger surface to support the trash cans, awning, and people walking on it
 - Environment will be impacted less
 - The trash cans will now be on even and stable ground, so they won't tip over and pollute the environment
 - A footprint for others to do similar projects
 - By publishing this final project on the church's website it allows others to see what I have done, how I did it, and then they can move on to do a project inspired by my work

How the project will be sustained



Church Council

- The church council (specifically the property committee) will maintain the upkeep of the cement pad, pavers, and sidewalk as needed

Continued Safety

- For many years to come the stability of the cement pad, pavers, and sidewalk will provide sturdy spaces for any need

What I Learned



01—DECISIVENESS

Sometimes you have to make some tough decisions (ex: What cement to use? What's a time that works for everybody? What's most cost effective? etc), **but those decisions have to be made with confidence.** Throughout my project I learned the importance of decisiveness.

02—COMMUNICATION

Making sure everyone knows and understands the information being communicated is important. Informing volunteers individually what time we are meeting is less effective and confuses you as to who you have and haven't told. Throughout this project I have learned that **there are many different ways to communicate** and some ways may be better than others.

03—PLANNING

Prior planning is important. When allotting time for a project, you should always plan early. I did not plan early and it made the project very stressful. **By planning properly, it allows for less stress and an easier/more efficient flow of events.**

→ **Thank You!** ←