4/20/23, 9:34 AM HDC-23-8



4/20/2023

HDC-23-8
Historic District
Certificate of

Appropriateness

Status: Active

Submitted On: 4/5/2023

Primary Location

304 E FRANKLIN ST CHAPEL HILL, NC 27514 **Applicant**

Alan Rimer

J 919-270-8835

alanrimer@outlook.com

♠ 3000 Galloway Ridge

A-004`

Pittsboro, NC 27312

Certificate of Appropriateness Form

Historic District

Franklin-Rosemary

Application Type Check all that apply

Minor Work is exterior work that does not involve any substantial alterations, and do not involve additions or removals that could impair the integrity of the property and/or the district as a whole. See Chapel Hill Historic Districts Design Principles & Standards ("Principles & Standards") (p. 9-11) for a list of minor works. Please contact Town Staff to confirm if you believe the project is classified as "minor work."

Historic District Commission Review includes all exterior changes to structures and features other than minor works

Minor Work as defined by Design Standards	Historic District Commission Review
	\checkmark
Request for Review After Previous Denial	After-the-Fact COA Application

4/20/23, 9:34 AM HDC-23-8

Written Description

Describe clearly and in detail the physical changes you are proposing to make. Identify the materials to be used (siding, windows, trim, roofing, pavements, decking, fencing, light fixtures, etc.), specify their dimensions, and provide names of manufacturers, model numbers, and specifications where applicable. Consider including additional materials to illustrate your project, such as: - Photos and specifications for proposed exterior materials such as siding, trim, roof, foundation materials, windows, etc. - Renderings of the proposed work - Spec sheets

Installation of Solar panels on roof surfaces not visible from East Franklin St. or the Planetarium parking lot. See the subsequent uploaded documents (Answers 1,2)

Applicable HDC Design Standards

Page / Standard # Topic

107-109 3. Exterior Changes

Brief Description of the Applicable Aspects of Your Proposal

Installation of Slaor panels

Property Owner Information

Property Owner Name

Chapel of the Cross

Property Owner Signature

Elizabeth Marie Melchionna (Rector)

Apr 5, 2023

Chapel of the Cross Installation of Solar panels

COA and associated material in support of application.

1. History, content and Character information

Please see the power point presentation below that provides a history of the church, as presented to the Town Council in the SUP application for the construction of the Parish Hall including a picture of the plaque commemorating the addition of Chapel of the Cross to the National Register of Historic Places 1n 1972.



History of Chapel of the Cross Extracted from the SUP Presentation to Chapel Hill Town Council Chapel of the Cross Site on 11-14-2011

2. Photographs

Please see the attached pictorial narrative of the project. This narrative outlines the project pictorially and notes that no solar panels will be evident from Franklin St.

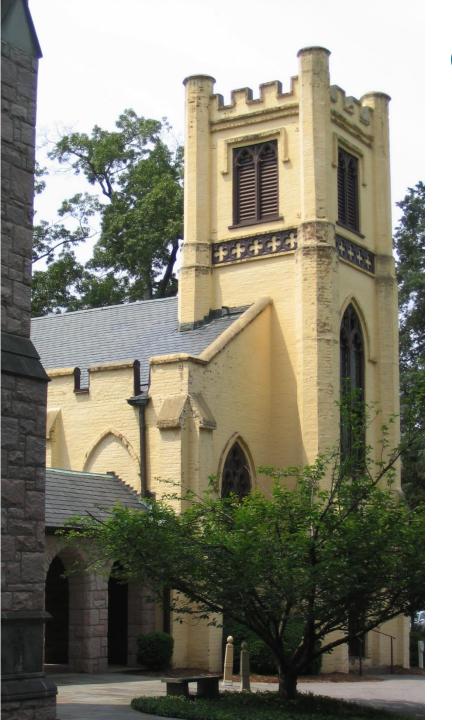
The following is a pictorial explanation of the installation of outer panels on several flat roofs at the Chapel of the Cress. The purpose of this presentation is to development that none of the panels will be visible from Franklin St. and thus should have no visual impact on the Interiorial property.

- 3. Site Plan (Not applicable but one is illustrated in the pictorial discussion referenced in 2.
- 4. Elevation Drawings (Not applicable)
- 5. Not applicable.



History of Chapel of the Cross

Extracted from the SUP Presentation to Chapel Hill Town Council Chapel of the Cross Site on 11-14-2011

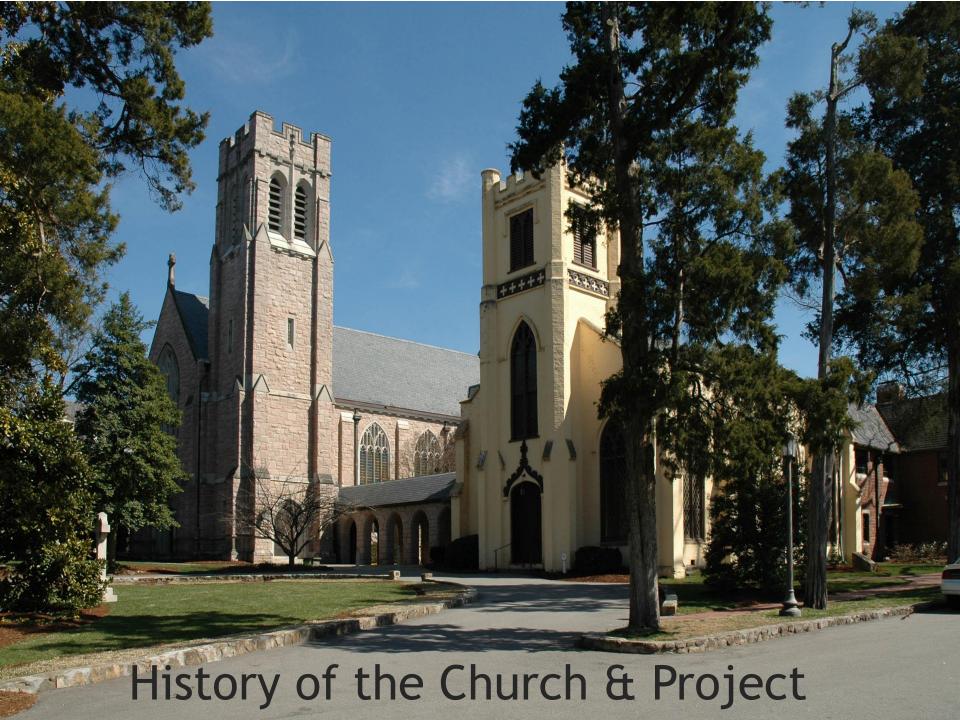


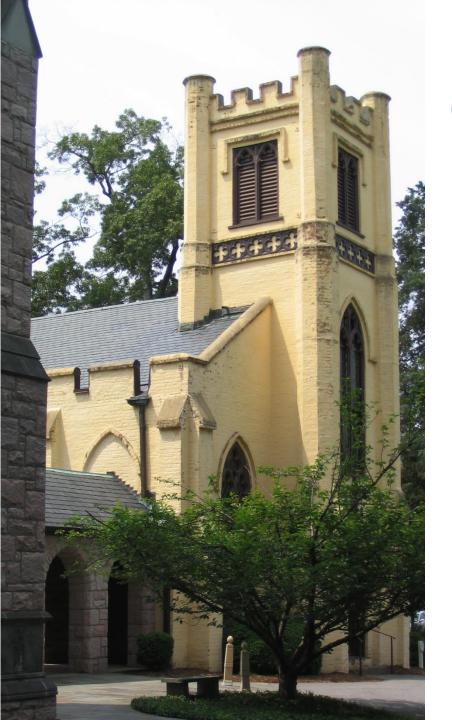
Objectives of Presentation

 History of the Church & Project

> Relevant to this COA Application

Current Conditions





Church History

Part of the Chapel Hill downtown for over 165 years.

(Now 178 years)

- •1848 Completion of the original chapel
- •1925 Completion of Main Church
- •1916-1991 Other structures constructed at various times
- •2014 Completion of the new Parish Hall



Project History

- **2001** Parish undertakes a facility review that lasts for over two years looking at space needs
- 2007 Master Plan Steering Committee formed to work with Parish architects – Hartman-Cox.
- 2008 Capital Campaign launched to raise funds to build new parish facilities
- **11/2008** Historic District review
- 1/2009 Town Council Concept Plan review
- 1/2011 Formal application for rezoning and Special Use Permit submitted



Church Growth Strategy

- Stay downtown rather than build a "greenfields" church because of:

 - Historic nature of the property
 Long term relationship with the downtown area
 - Close ties with UNC
- Retain the Chapel and Church (Sanctuary)
- Replace all other facilities in two phases as funds become available
 - Such replacement is necessary as the original facilities are not suitable to meet current standards and future functional needs.
 - Two phases because of funding issues due to downturn in economy















Form 10-300a (July 1969)

UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

NATIONAL REGISTER OF HISTORIC PLACES INVENTORY - NOMINATION FORM

(Continuation Sheet)

STATE	
North Carolina	
YTNUO	711-22-2-2
Orange	
FOR NPS USE ONL	Υ
ENTRY NUMBER	DATE

(Number all entries)

7.

page 8

Street, which runs north of and parallel to Franklin. Several styles of architecture are represented--typical nineteenth century gable-roof houses, Greek and Gothic Revival, and the "Colonial Revival" and shingle-style popular in the early twentieth century--but most of the houses are frame and feature wide verandahs, and all blend pleasantly into a harmonious whole

- 27. The Chapel of the Cross. This small Episcopal chapel, which will be nominated separately, is one of the best examples of the Early Gothic Revival in North Carolina. The main front, facing Franklin Street, features a central crenellated tower entered through a four-centered arch beneath a wooden crocketed ogee molding. The tower is flanked by large windows with two trefoil-headed panels united by a quatrefoil in the point of the arch. The four-bay sides are marked by buttresses between windows like those of the front. The large addition and a parish house were constructed in harmonizing styles. The buildings have an idyllic setting among the magnolia and crepe myrtle trees.
- 28. The President's House. The President's House at the southeast corner of Franklin and Raleigh streets is closely related to the buildings of the Georgian and Neo-Classic Revivals, but it was probably considered to be "Colonial Revival" at the time of its erection about the turn of the last century. The two-story house with hip roof features a well-executed Corinthian portico with pairs of columns on either side. Beneath the portico runs a one-story verandah supported by Ionic columns which carries around three sides of the house.
- 29. The Spencer House. The Spencer House east of the President's House is a rambling one-story frame structure with a verandah along the front and part of one side. The picture sque quality of the verandah is heightened by the coupling of the columns and the use of pedimented projections at each of two entrances. These pediments, together with several decorative gables, have given the house the name, "The House of the Seven Gables."
- 30. Dr. Caldwell's Meridian. To the rear of the Spencer House is a lane leading to what is known as "Dr. Caldwell's Meridian," situated to the rear of the president's house. Here is a bower sheltering two square brick pillars about seven feet high, fourteen inches square, and four feet apart. A nearby tablet bears the inscription, "Meridian pillars built by Joseph Caldwell, President of the University of North Carolina, 1804-1812, 1816-1835, shortly after his return from a trip to England in 1824-1825 for the procurement of Astronomical Instruments and Books."

304 East Franklin Street

CHAPEL OF THE CROSS

1846, 1890, 1917, 1925. 1960s, 2014

The Chapel of the Cross was constructed in three distinct building periods, utilizing different styles and materials, and, as such, reads as three distinct, though connected buildings. The original Chapel of the Cross was completed in 1846 in the Gothic Revival style. The front-gabled church three bays wide and four bays deep and is of load-bearing red brick construction, covered with parging. There is a projecting watertable encircling the building and coped battlements conceal the gabled roof on the side elevations. Leaded-glass lancet windows, installed in 1917, have two trefoil-headed panels united by a quatrefoil in the point of the arch and are located on the façade and side elevations. Windows on the side elevations are separated by stepped buttresses with sloped caps. Windows on the façade flank a three-stage crenelated tower centered on the façade with brick coping outlining the crenellations and a doublebrick string course beneath the crenellations. Double-leaf arched doors on the first-floor of the tower, each contain a long panel headed by a round trifoliated arch, and are recessed within a shallow paneled Tudor arch. Above the arch is a crocketted wood ogee hoodmold. Above the entrance is a large lancet window, matching the others, with a projecting hoodmold. At the top of the tower, each elevation has paired rectangular louvered vents with square brick hoodmold. Polygonal turrets at each corner of the tower are buttressed at the base and terminate in blunt octagonal projections. The rear elevation of the building was obscured by a gabled addition to the building, the projected beyond the right (west) elevation, that appears on the 1925 Sanborn maps and was likely built concurrent with the larger sanctuary to the east.

By 1915, likely in anticipation of the 1925 sanctuary, a two-story, front-gabled hyphen at the left rear (southeast) corner of the chapel was constructed and connected to a two-story, side-gabled addition that extended east and connected to the rear of the 1925 sanctuary. While the rear of the addition has been obscured by later additions, but the front is visible from the cloister. The hyphen and side-gabled wing are of red brick construction with a slate roof, metal-framed casement windows, and one-story buttresses with concrete caps. There is a brick chimney at the intersection of the hyphen and wing and a one-story, flat-roofed addition was constructed after 1960 and extends the full width of the wing along the north elevation facing the cloister. The one-story wing has metal windows with concrete sill and lintels and an arched, batten door centered on the north elevation is sheltered by a flared, copper hipped roof.

The cloister, bordered by the 1846 chapel on the west, the 1915 and 1960s addition on the south, the 1925 sanctuary on the east, and a 1925 covered walkway on the north has an open grassy space with brick walks, several wood benches, foundation plantings along its south and west sides, and a large tree in the southeast corner. The covered walkway that spans the north side of the cloister connects the 1846 chapel and the 1925 sanctuary. The side-gabled structure has a slate roof, five pointed-arch openings on the north and south elevations, and a slate floor that extends north to abut a circular drive at the front (north) of the chapel.

Begun in 1924 and completed in 1925, the large, front-gabled, Gothic Revival-style church stands east of the 1846 chapel. The front-gabled church is granite with cast-stone detailing and a Flemish gable with cast-stone coping and a cross at the peak. It has a projecting water table and beltcourse as well as stepped stone buttresses with cast-stone caps. A cornerstone at the front right (northwest) corner reads "The Chapel of the Cross 1924." The entrance, centered on the façade, has double-leaf doors with decorative lights with a trefoil pattern, a blind stone panel above, and is slightly recessed in a pointed-arched stone surround. The entrance is flanked by narrow seven-light windows in

stone surrounds. Cast-stone detailing around the entrance bay includes decorative stone tracery in the spandrels and a stone sill and surround for the two-story, pointed-arch, stained-glass window above the entrance. A four-story crenelated tower at the front right corner has beltcourses separating the levels, fixed windows at the first and third levels, and paired, pointed-arch louvered vents at the top with stone corbelling above and a stone beltcourse below. An entrance on the right (west) elevation has double-leaf, pointed-arch batten doors in a stone surround. The side elevations are each five bays deep with a projecting cross bay at the apse on the south end and buttresses separating the bays. They have paired metal-framed windows in stone surrounds at the floor level with large, pointed-arch, stained-glass windows in stone surrounds, matching that one the façade, above.

At the rear of the 1925 sanctuary, and constructed between 1960 and 1974, is a two-story-with-basement, hip-roofed, Tudor-Revival-style education wing with red brick exterior and slate roof. The six-bay-wide wing was enlarged to seven bays in 2014 to connect to a newly constructed section at the southwest, though finishes on the seventh bay match those on the original building. It has paired, ten-light, metal-framed casement windows with cast-stone sills and lintels, a stone watertable, and arched copper roof dormers with louvered vents.

A large, front-gabled addition southwest of the 1846 chapel was constructed in 2014 and connects to the 1925 wing at the rear of the chapel and fills the ell created by the 1846 chapel and 1960s education wing. The front-gabled, red brick building employs a combination of Tudor Revival- and Gothic Revival-style details including a projecting cast-stone bay on the façade, stepped chimneys, and pointed-arch windows. The two-story-with-basement building has a slate roof and is six bays deep with brick buttresses with cast-stone caps dividing the bays. The right (west) elevation has tall, pointed-arch windows, mimicking those on the 1925 santuary, with header-course pointed arches with cast stone keystones and springers. The rear two bays project under a hipped roof and have rectangular windows with stone sills. A skylight that extends along

the middle three bays of the building as the first-floor level lights basement spaces below. There are five gabled wall dormers on the west elevation, each with paired, six-light casement windows and with a shed-roofed dormers extending between each gable dormer. At the front, a lower, offset, two-story, front-gabled wing is three bays wide with a stepped chimney at the northwest corner and a shed-roofed dormer on the west elevation. The center bay has windows in a stone surround with a projecting, canted stone bay at the secondfloor level. There is a six-light-over-two-panel door on the west elevation accessed by concrete stairs with a brick knee wall that is tied into the brick façade. Three four-light casement windows to the south of the door have a stone sill. The rear elevation of the gabled wing that three entrance bays separated by pilasters. Each entrance has paired six-light-over-two-panel doors with a cast-stone lintel with decorative relief. Above the lintel, pointed-arch windows are located in header-course pointed arch surrounds with cast-stone keystones and springers. There is a group of three windows in the gable with a decorative brick band above.

The front-gabled 2014 addition is connected to the hip-roofed education wing by a two-story, side-gabled wing that abuts the rear of the 1915, side-gabled addition. This side-gabled section is three bays side with two entrances flanking an exterior, stepped brick chimney with stone details on the south elevation and a third entrance on the east end in a recessed bay. The entrances are each paired, six-light-over-two-panel doors. Groups of three six-light casement windows at the second-floor level have stone sills and there are two gabled dormers with copper sheathing on the south elevation, flanking the chimney. One dormer has a louvered vent and the other a fixed window. The front (north) elevation of this wing, features an inset entrance, nestled between the front-gabled wing and the 1846 chapel. It has painted doors with sidelights, all with trefoil details, sheltered by a copper shed roof and accessed by a brick stair and terrace. A brick terrace extends the width of the 2014 front-and side-gabled wings, bordered by the stone wall of Coker Arboretum to the

south. A modern playground is located on the west elevation of the front-gabled wing.

On May 23, 1842, twenty-eight persons under the leadership of the Reverend William Mercer Green, rector of St. Matthew's Church in Hillsborough and professor of belles-lettres at the university, organized a parish. It was known as the Church of the Atonement of the Protestant Episcopal of North America. The building of a sanctuary, designed by Philadelphia architect Thomas U. Walter, was begun a year later. Delayed by an economic depression, construction was not completed until 1846 [Little]. The church was consecrated in that year and named the Chapel of the Cross. A plaque on the building indicates that the chancel and northwest vestry were added in 1890 and the current windows installed in 1917. By 1921, the congregation had outgrown the building and hired Hobart B. Upjohn to design a new structure adjacent to the first. The building was completed in 1925. According to Sanborn maps, the building was enlarged again between 1960 and 1974 with a hip-roofed classroom wing at the southeast corner.

In the 2015 survey, this was deemed a Contributing Building..

SHED - GENERAL STORAGE

2014

Constructed concurrent with the 2014 addition to the rear of the chapel, this one-story, side-gabled shed has a Flemish-bond brick veneer, with brick lintels and diagonally laid brick at the roofline of the gable ends. It has a slate roof, paired metal doors on the south and east elevations, and paired, metal-framed windows with concrete sills on the north and east elevations. In the 2015 survey, this was deemed a Noncontributing Building.

SOURCE: Heather Wagner Slane, National Register of Historic Places Nomination: Chapel Hill Historic District Boundary Increase and Additional Documentation, Orange County, OR1750 (Raleigh, NC: North Carolina State Historic Preservation Office, 2015), courtesy of the North Carolina State Historic Preservation Office.

According to Orange County property data as of 2021:

Plot size: 1.55 acres

Building size: 32,268 sq. ft. Ratio: Building/Plot: 0.478

For link to this information: https://property.spatialest.com/nc/orange/#/property/9788570788

For link to 1925-1959 Sanborn maps and map data for this property:

https://unc.maps.arcgis.com/apps/webappviewer/index.html?

id=711a3b4017eb48c0acffc90cf2472f57&level=8¢er=-79.0500,35.91459

Cite this Page:

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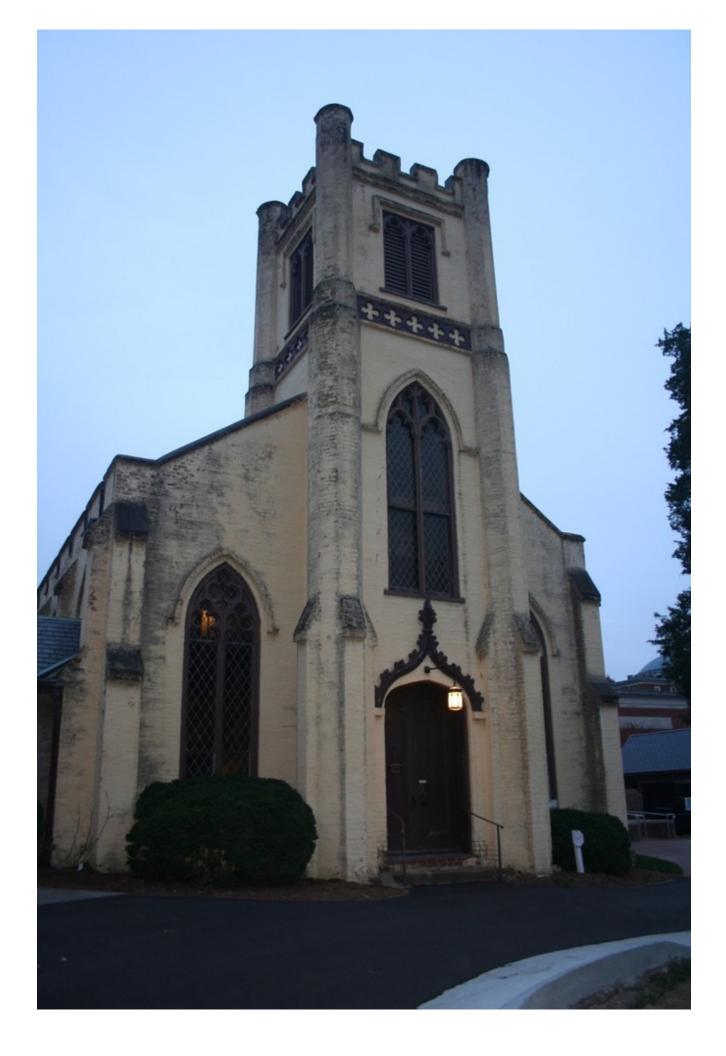
Published on Sep 14, 2020. Last updated on Jun 29, 2021.





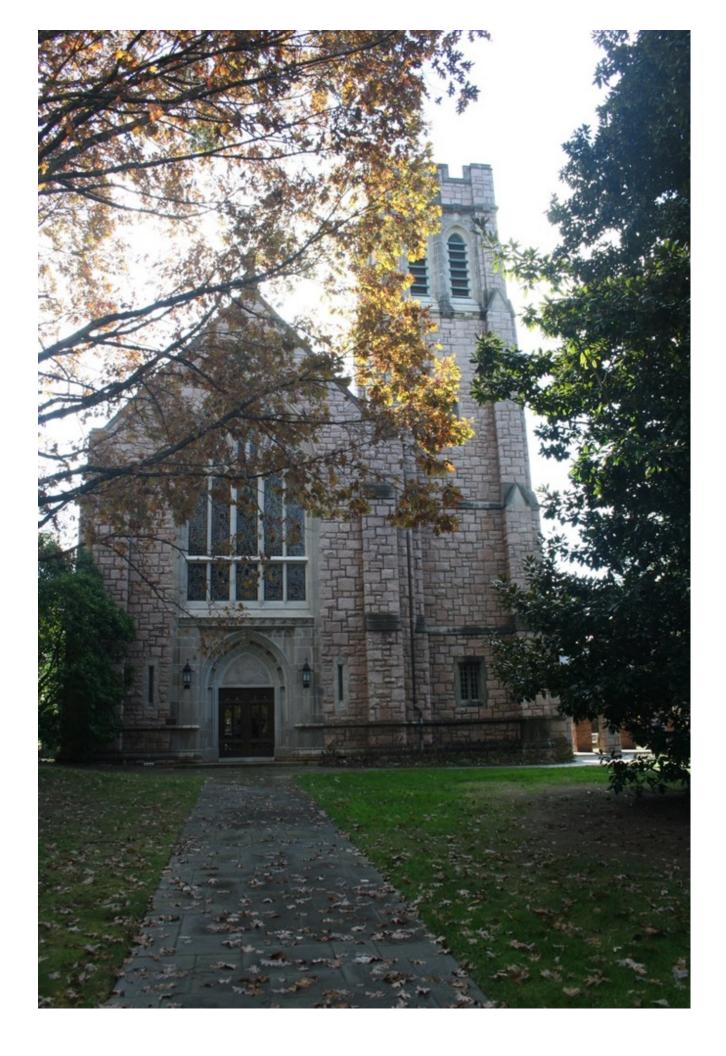










































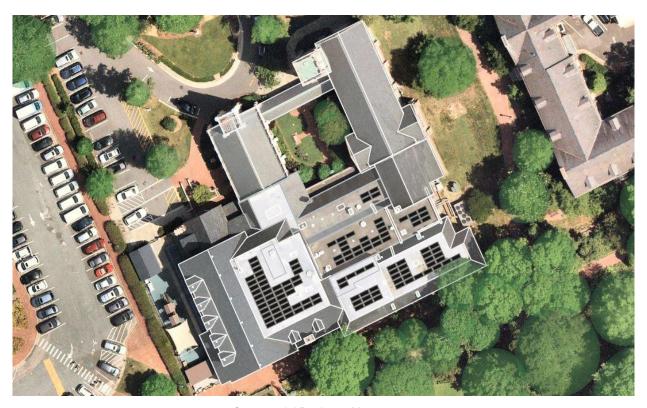




52.325kW Non-Profit Solar System Proposal

Chapel of the Cross

304 E Franklin St Chapel Hill, NC 27514



Commercial Business Manager

Armghan Aslam

a.aslam@8msolar.com

(919) 922-8818

December 29, 2022

www.8msolar.com







Ali Buttar PVIP #031310-32

Working With 8MSolar

8MSolar's unrivaled expertise and attention to detail sets us apart from other solar installers. Headquartered in Wake forest, North Carolina, we are locally owned and operated. We are the only company whose owners, NABCEP certified solar designers and professional engineers (licensed PE), are directly involved in **every** solar project we install.



1. Highest Quality Materials

- Top of the line racking components, IronRidge, EcoFoot 2, SolarFoot and SunModo (application dependent)
- Tier 1 solar panels & inverters
- Upgraded electricals exceeding code requirements. NEC (National Electric Code) requires "#10 Copper" size
 wire as a minimum to ground the system. We use #6 Copper, which is 4 times this size as added protection
 against any electrical issues for the 25-50 year life of the system.
- Our installers and electricians document every step of the installation process with pictures and videos.



2. Licenses and Certifications

We are the only solar company that has licensed, in-house, professional electrical engineers (PE) overseeing every aspect of the project. Full design build activities handled internally.

- NABCEP Certified Installers, License # 031310-32.
- Unlimited General Contractors, License # 82456.
- Chapter 87 Engineering Firm, Engineering License # D-0411.

We have been installing solar all over the Eastern US since 2009, and have extensive experience in designing and installing commercial, residential and non-profit systems.



3. Customer Interaction & Service

- A dedicated project manager from start to finish, who is involved with every step of the process. You will not be bounced between departments.
- Guidance and involvement at every stage of the process. You will be kept informed and your feedback solicited on important design and material considerations.
- Complementary weekly audits to ensure the system is performing at full potential.







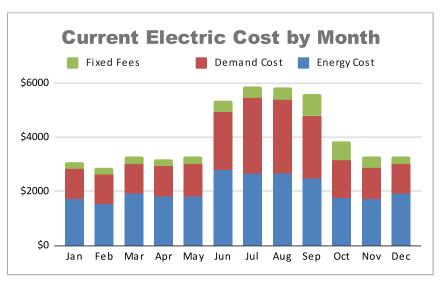






Current Energy Usage & Costs

	Ut	tility	Rate Sc	hedule	Solar kWh Rate		
	Duke	Energy	OPT-V		\$0.047	1	
	Energy (kWh)	Energy Cost	Demand (kW)	Demand Cost	Fixed Fees & Taxes	Total	
Jan	45,612	\$1,728.49	88	\$1,095.76	\$248	\$3,073	
Feb	41,033	\$1,530.10	95	\$1,095.76	\$234	\$2,860	
Mar	52,147	\$1,919.43	100	\$1,095.76	\$264	\$3,279	
Apr	49,834	\$1,838.15	103	\$1,097.15	\$264	\$3,199	
May	49,710	\$1,834.02	118	\$1,172.03	\$270	\$3,276	
Jun	74,339	\$2,805.91	152	\$2,118.23	\$412	\$5,336	
Jul	69,637	\$2,675.01	168	\$2,763.44	\$439	\$5,878	
Aug	69,253	\$2,659.96	164	\$2,713.69	\$481	\$5,855	
Sep	64,947	\$2,492.73	136	\$2,285.64	\$819	\$5,598	
Oct	46,756	\$1,762.40	126	\$1,392.10	\$689	\$3,844	
Nov	46,600	\$1,733.48	103	\$1,127.69	\$438	\$3,299	
Dec	51,479	\$1,927.44	100	\$1,095.76	\$256	\$3,280	
Annual	661,345	\$24,907	168	\$19,053	\$4,814	\$48,775	
Average	55,112	\$2,076	121	\$1,588	\$401	\$4,065	

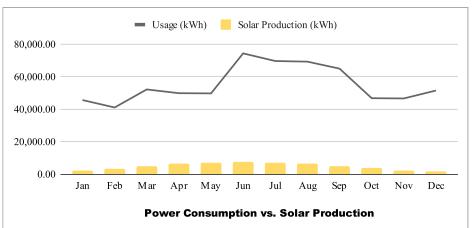




System Production Analysis

Solar I	Photovoltaic System
Module Brand	JINKO JKM455M-7RL3-TV
Module Quantity	115
System Size DC	52.325kW
System Size AC	50kW
Solar	System Production
1st Year Production	56,696
30 Year Production	1,583,142
Solar Energy Offset	9%





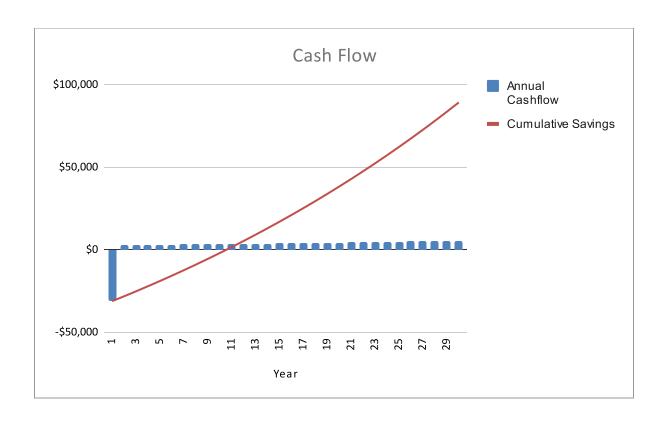


Cash Option

Cost & Ince	entives
System Cost	\$102,034
30% Federal Tax Credit	-\$30,610
100% Bonus Depreciation	\$0
Utility Rebate*	-\$37,500
Net Cost	\$33,924

System Production	n	
Year 1 Production	56696	kWh
30 Year Production	1,583,142	kWh
30 Year Savings	\$89,385	
30 Year Solar Cost/kWh	\$0.02	
Current Grid Cost/kWh	\$0.047	
Lifetime Grid Cost/kWh	\$0.075	30 years
IRR	8.37%	

**Utility rebate not guaranteed





Year	Payments	Solar Production kWh	Energy Savings	Tax Credit	Bonus Depreciation	Utility Rebate	USDA REAP	O&M	Annual Cashflow	Cumulative Savings	Present Value Cash Flow
1	-\$102,034	56,696.36	\$2,668	\$30,610	\$0	\$37,500	\$0	\$215	-\$31,040	-\$31,040	-\$30,136.40
2	\$0	56,412.88	\$2,734	\$0				\$215	\$2,949	-\$28,091	\$2,780.12
3	\$0	56,130.81	\$2,802	\$0				\$215	\$3,017	-\$25,074	\$2,761.33
4	\$0	55,850.16	\$2,872	\$0				\$215	\$3,087	-\$21,987	\$2,742.78
5	\$0	55,570.91	\$2,943	\$0				\$215	\$3,158	-\$18,828	\$2,724.46
6	\$0	55,293.05	\$3,017	\$0				\$215	\$3,232	-\$15,597	\$2,706.36
7	\$0	55,016.59	\$3,091	\$0				\$215	\$3,306	-\$12,290	\$2,688.49
8	\$0	54,741.51	\$3,168	\$0				\$215	\$3,383	-\$8,907	\$2,670.83
9	\$0	54,467.80	\$3,247	\$0				\$215	\$3,462	-\$5,445	\$2,653.38
10	\$0	54,195.46	\$3,328	\$0				\$215	\$3,543	-\$1,902	\$2,636.13
11	\$0	53,924.48	\$3,410	\$0				\$215	\$3,625	\$1,723	\$2,619.09
12	\$0	53,654.86	\$3,495	\$0				\$215	\$3,710	\$5,434	\$2,602.25
13	\$0	53,386.59	\$3,582	\$0				\$215	\$3,797	\$9,231	\$2,585.60
14	\$0	53,119.65	\$3,671	\$0				\$215	\$3,886	\$13,117	\$2,569.14
15	\$0	52,854.05	\$3,762	\$0				\$215	\$3,977	\$17,094	\$2,552.87
16	\$0	52,589.78	\$3,856	\$0				\$215	\$4,071	\$21,165	\$2,536.77
17	\$0	52,326.84	\$3,952	\$0				\$215	\$4,167	\$25,331	\$2,520.86
18	\$0	52,065.20	\$4,050	\$0				\$215	\$4,265	\$29,596	\$2,505.11
19	\$0	51,804.88	\$4,150	\$0				\$215	\$4,365	\$33,961	\$2,489.54
20	\$0	51,545.85	\$4,254	\$0				\$215	\$4,469	\$38,430	\$2,474.14
21	\$0	51,288.12	\$4,359	\$0				\$215	\$4,574	\$43,004	\$2,458.89
22	\$0	51,031.68	\$4,468	\$0				\$215	\$4,683	\$47,687	\$2,443.81
23	\$0	50,776.52	\$4,579	\$0				\$215	\$4,794	\$52,481	\$2,428.88
24	\$0	50,522.64	\$4,692	\$0				\$215	\$4,907	\$57,388	\$2,414.11
25	\$0	50,270.03	\$4,809	\$0				\$215	\$5,024	\$62,412	\$2,399.49
26	\$0	50,018.68	\$4,928	\$0				\$215	\$5,143	\$67,555	\$2,385.01
27	\$0	49,768.58	\$5,051	\$0				\$215	\$5,266	\$72,821	\$2,370.68
28	\$0	49,519.74	\$5,176	\$0				\$215	\$5,391	\$78,213	\$2,356.49
29	\$0	49,272.14	\$5,305	\$0				\$215	\$5,520	\$83,733	\$2,342.45
30	\$0	49,025.78	\$5,437	\$0				\$215	\$5,652	\$89,385	\$2,328.53
	-\$102,034	1,583,141.62	\$116,859	\$30,610	\$0	\$37,500	\$0	\$6,450	\$89,385		\$43,611.20

Discount Rate

3.00%

- Includes estimated federal tax credits, depreciation, estimated utility fees and utility rebates where applicable - Federal tax rate assumed to be 30%

IRR 8.37%



System Summary

Hardware
JINKO JKM455M-7RL3-TV
SE50K-US Inverters & P1101 Optimizers
US made racking and mounting hardware
Wire, conduit, and all other electrical components required for system operations
Online Monitoring

Warranties	
Solar Panels Manufacturer Warranty	30 years
Inverter Manufacturer Warranty	12 years
Power Optimizers Warranty	25 years
8MSolar Workmanship Warranty	5 years

Complete system design to ensure optimal performance
Electrical drawings created by inhouse professional engineer, structural engineerin

Design & Installation

profession neering reviews to ensure roof is capable of supporting system load

Acquisition and payment of permits Interconnection application, filing and fees Installation of all 8MSolar provided materials System commissioning and ownership training

Exclusions
Provisions to paint any components
Any repairs to the roof required before installation of the PV system
Bonding
Facility infrastructure upgrade / changes from utility

Assumptions
No changes to existing electrical infrastructure
Structural analysis fees of up to \$700
Tax Bracket assumed 30%

Payment Schedule	
10% at Contract Signing	\$10,203
40% Upon Inventory Delivery	\$40,814
40% After Completed Installation	\$40,814
10% at Completed System Inspection	\$10,203

8MSolar LLC is not a tax provider, financial advisor, or legal attorney. Examples provided herein do not constitute professional tax advice or other professional financial guidance, and should not be used as the only source of the information when making purchase decisions or tax decisions. Actual tax benefits may vary. Please consult a financial or tax professional to determine your elibility. System price guaranteed for 30 days.

Anya Grahn-Federmack

From: Alan Rimer <alanrimer@outlook.com>
Sent: Wednesday, April 19, 2023 12:57 PM

To: Anya Grahn-Federmack **Subject:** Re: Payment Received

External email: Don't click links or attachments from unknown senders. To check or report forward to reportspam@townofchapelhill.org

The 8M proposal shows them as parallel to the roof line at about a 10 degree slope. The pictures I had taken were meant to show the top of the panel which still could not be seen Does that help?

Alan

From: Anya Grahn-Federmack <agrahn-federmack@townofchapelhill.org>

Sent: Wednesday, April 19, 2023 12:49 PM **To:** Alan Rimer alanrimer@outlook.com

Subject: RE: Payment Received

Thanks, Alan! Just to confirm, will the solar panels be flush-mounted or installed parallel to the roof?

Thanks for turning this around so quickly, Anya