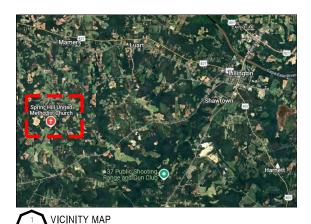
## SPRING HILL UNITED METHODIST CHURCH CHAPEL ROOF REPLACEMENT

1960 SPRING HILL CHURCH RD, LILLINGTON, NC 27546











FIRE PROTECTION REQUIREMENTS





BUILDING CODE REFERENCE:
2018 N. GERGY GUNGEVATION CODE
2018 N. GENERGY CONSERVATION CODE
2018 N. GEG: EXISTING BUILDING
2018 N.GEG: FIRE PREVENTION
2018 N.GEG: FIRE PREVENTION
2018 N.GEG: FILE GAS
2018 N.GEG: FUEL GAS
2018 N.GEG: FUEL GAS
2018 N.GEG: FLUMBING

DK ENGINEERING, PLLC

DK ENGINEERING, PLLC 644 HOLLY SPRINGS ROAD, SUITE 136 HOLLY SPRINGS, NC 27540 NC FIRM LICENSE P-3102

## GENERAL NOTES:

- CONTRACTOR IS RESPONSIBLE FOR FIELD-VERIFYING ALL DIMENSIC COMPONENTS, AND EQUIPMENT PENETRATION LOCATIONS. ONLY ONE DETAIL INDICATOR MAY BE SHOWN FOR EACH RO PENETRATION TYPE: ALL SIMILAR PENETRATIONS MUST FOLLOW T TYPICAL FLASHING DETAIL UNLESS NOTED OTHERWISE.
- NOTES PROVIDE TYPICAL WORK LOCATIONS; IT IS THE CONTRACTOR RESPONSIBILITY TO QUANTIFY AND CONFIRM ALL LOCATIONS.
- LIGHT LINES INDICATE EXISTING STRUCTURES/COMPONENTS THAT WILL BE RETAINED, WHILE DARK LINES SHOW NEW ELEMENTS TO BE ADDED. ELEMENTS/COMPONENTS NOT SHOWN IN DRAWINGS ARE TO BE REMOVED.

AS	PART OF PREPARATION FOR WORK.	
CD	ISSUED FOR BID	7/25/2025
CD	100% CONTRACT DOCUMENTS	7/25/2025
CD	90% CONTRACT DOCUMENTS	6/20/2025
١0.	REVISION / ISSUE	DATE



SPRING HILL UNITED 1960 SPRING HILL CHURCH RD. LILLINGTON, NC 27546



SCALE DRAWING ACCORDINGLY IF NOT PRINTED ON 24X36

P2025.1014 7-25-2025

**COVER SHEET** 

G001

## APPENDIX B BUILDING CODE SUMMARY - FOR COMMERCIAL ROOF PROJECTS

Name of Project:	Spring Hill United N	Aethodist Church - C	hapel Roof Replace	ment				
Address	1960 Spring Hill Cl	rurch Road, Lillington	, NC			Zip Code:	27546	
Owner/ Authorized Agent:	Brad Cummings (S	pring Hill UMC)			Ph	one #.	(910) 893-4723	
Email:	_brad_cummings@	yahoo.com						
Owned By: Code Enforcement Jurisdiction	on:	☐ city/c ☐ city	ounty		Private County: Has	mett County		
ENGINEER:	NAME		LICEN	***	PHONE #		EWAL	
DK Engineering, PLLC		V. Krekelberg	05189		328) 507-164	4	dkrekelberg@dk-eng.r	om
Roof Replacement		_	of Recover			Roof	Repair	
2018 NORTH CAROLINA CO Roof Replacement  2018 NORTH CAROLINA EX- CHAPTER 5 CLASSIFICATIO Section 503: Attention L (Renovation)	4STING BUILDING C ON OF WORK:	ODE Sec	of Recover dion 504: Alteration I eration)	Level 2		☐ Sectio	Repair in 505: Alteration Level 3 Instruction)	
Roof Replacement 2018 NORTH CAROLINA ED CHAPTER 5 CLASSIFICATIK Section 503 Alteretion L (Recoveration)  BASIC BUILDING DATA	USTING BUILDING O ON OF WORK:	ODE Sec	tion 504: Alteration I	Level 2		☐ Sectio	n 505: Alteration Level 3	
Roof Replacement 2018 NORTH CAROLINA EX- CHAPTER 5 CLASSIFICATE Sedien 503: Alteration L (Renovation)  BASIC BUILDING DATA Constructed Data: Constructed Data: Constructed Title: Constructed Title: Constructed Type:	4STING BUILDING C ON OF WORK:	Sec (Alt	tion 504: Alteration I	Level 2	□ v-A	☐ Sectio	n 505: Alteration Level 3	
Roof Replacement 2018 NORTH CAROLINA EX- CHAPTER 5 CLASSIFICATE Sedien 503: Alteration L (Renovation)  BASIC BUILDING DATA Constructed Data: Constructed Data: Constructed Title: Constructed Title: Constructed Type:	ISTING BULDING C DN OF WORK: .ovel 1	ODE Sec	tion 504: Alteration I eration)		□ v-A □ v-B	☐ Sectio	n 505: Alteration Level 3	
Roof Replacement  2018 NORTH CAROLINA EX CHAPTER 5 CLASSIFICATIO Section 503, Alteretion L (Renovation)	ISTING BULDING CON OF WORK:  .ovel 1  1957	Sec (Alt	tion 504: Alteration I eration)		□ v-8	☐ Sectio	n 505: Alteration Level 3	
Mort Replacement  2019 NORTH CAROLINA E.  CHAPTER 5 CLASSIFICATI  Recording  Section 900 Affection L.  Recording  BASIC BUILDING DATA  Constructed Data  Control Type:  (check, all that apply)  Spenishers.	15TING BUILDING C DN OF WORK: wel 1	Sec   (AH	dion 504: Alteration I eration)  III-A  III-B	□IV	□ v-8	Section (Reco	n 505, Alteration Level 3	□ 0η
In the control of th	ISTING BUILDING O DN OF WORK:  Lovel 1  1957  I-A  I-B  No	Sec (AH	dion 504: Alteration I eration)  IIII-A  III-B  Yes  Class:	□ IV	Uv-B	Section (Reco	n 566 Alteration Level 3 natrustion)	
⊠ Roof Replacement     Z018 NORTH CAROLINA ED     CHAPTER S CLASSIFICATE	usting Bullbing of DN of Work: .evel 1 	Sec (Alt	dion 504: Alteration I eration)  IIII-A  III-B  Yes  Class:	□ IV	Uv-B	Section (Reco	n 566 Alteration Level 3 natrustion)	
M Roof Replacement  2018 NORTH CARCUNA E) CHAPTER 5 CLASSIRCATE M Rodium 503 Alleration L GRenovation)  BASIC BUILDING DATA Constructed Data Constructed Data Constructed Data (check all that apply)	LISTING BUILDING CON OF WORK:	Sec. (Ali	dion 504: Alteration I eration)  IIII-A  III-B  Yes  Class:	□ IV	Uv-B	Section (Reco	n 566 Alteration Level 3 natrustion)	

PRIMARY OCCUP	ANCY (CHAPEL)					
Assembly:	☐ Ar1	☐ A-2	⊠ A-3	□ A4 [	A-5	
Business:	□в					
Educational:	□ E					
Factory:	F-1 (Moderate)		F-2 (Low H	lazard)		
High Hazard:	H-1 (Detonate)	☐ H-2 (t	Deflagrate)	H-3 (Combust)	H-4 (Health)	H-5 (HPM)
Institutional	I-1 Condition 1	☐ I-1 Cc	ndition 2	☐ 1-2	□ 1-3	□ 1-4
Mercentile:						
Residential:	R-1	☐ R-2	□ R-3	☐ R-4		
Storage:	S-1 (Moderate)		S-2 (Low H	lazard)		
Utility:	Πυ					
ACCESSORY OCCU	PANCY (ALL SECTORS	) ne	NA)			
Assembly:	□ A-1	☐ A-2	□ A-3	☐ A-4 [	A-5	
Business:	⊠ B					
Educational	□ E					
Factory:	F-1 (Moderate)		F-2 (Low H	lazard)		
High Hazard:	H-1 (Detonate)	☐ H-2 (0	Deflagrate)	H-3 (Combust)	H-4 (Health)	H-5 (HPM)
Institutional	I-1 Condition 1	☐ I-1 Cc	ndition 2	☐ I-2	□ F3	□ I-4
Mercantile:						
Residential:	R-1	R-2	□ R-3	R-4		
Storage:	S-1 (Moderate)		S-2 (Low H	(azard)		
Utility:						
					2	

	FIRE PROTECTION	RAING	DESIGN # FOR BATED		
BUILDING ELEMENT	REQUIRED	PROVIDED	ASSEMBLY	COMMENTS	
Roof Construction Comentitious Wood Filter	0 HR	0 HR	Design No. P402	Non-combustible, ur	protested
			•		
STRUCTURAL SUMMARY					
Components & Cladding Wind Uplit				All Sectors	
Basic Wind Speed Internal Pressure Coeff	120 ±0.18	mph	Risk Category	_11_	
Internal Pressure Coet.	±0,18		Exposure Category C		
Wind Uplift Nominal Design Pressure	980				
Zone 1 (Field)	-38	pef	Overhang Zone 1 (Field)		_44 pr
Zone 2e (Perimeter Eave)	-38	psf	Overhang Zone 2e (Perimeter Ex		-44 pc
Zone 2n (Perimeter Rake)	-55	pef	Overhang Zone 2n (Perimeter Ra		-61 pr
Zone 2r (Perimeter Ridge)	-55	pef	Overhang Zone 2r (Perimeter Ris		-61 pr
Zone 3e (Corner Eave)	-65	pef	Overhang Zone 3e (Corner Eave		-71 pr
Zone 3r (Corner Ridge)	-66	pef	Overhang Zone 3r (Corner Ridge	1)	-82 pr
Roof System Dead Load					
Existing System	8.89 ps	ıf			
Replacement system	10,98 ps	of (7% force increas	e due to deadload)		
ENERGY SUMMARY					
NEW Rooficeiling Assembly	Self-arthered m	embrane underlass	ment, retrofit light-gauge metal sub-t	Famino	
Description of Assembly:	mineral wool in	sulation. & vented :	standing seam metal roof	-unit	
Number of Skylights					_
All Sectors	N/A				
R-Value of Insulation (min):	R-16.8				

