2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: 19120 – SHERWIN WILLIAMS – WINSTON SALEM
Address: 4809 COUNTRY CLUB ROAD WINSTON SALEM, NC 27104 Zip Code 27104
Owner/Authorized Agent: RUBY THORNTON Phone # (919) 544 - 0087x172 E-Mail RCTHORNTON@LMHT.COM
Owned By: ☐ City/County ☒ Private ☐ State
Code Enforcement Jurisdiction: ☒ City WINSTON SALEM ☐ County ☐ State

CONTACT: REBECCA LEHMANN ARBGAST

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	NRD	TAMMY DAVIS	13698	(919)544-0087	
Civil	COMMERCIAL SITE DESIGN	JEREMY BECKETT	26411	(919)848-8121	
Electrical	NRD	RAY THORNTON	17561	(919)544-0087	
Fire Alarm				( )	
Plumbing	NRD	SHAWN SYLTER	32078	(919)544-0087	
Mechanical				( )	
Sprinkler-Standpipe				( )	
Structural	BRIT, PETERS & ASSOCIATES, INC	BRET UNDERWOOD	037779	(757)965-5688	
Retaining Walls >5' High				( )	
Other				( )	

("Other" should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

2018 NC BUILDING CODE: ☐ New Building ☐ Addition ☐ Renovation
☐ 1st Time Interior Completion
☒ Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements
☐ Phased Construction - Shell/Core- Contact the local inspection jurisdiction for possible additional procedures and requirements

2018 NC EXISTING BUILDING CODE: EXISTING: ☐ Prescriptive ☐ Repair ☐ Chapter 14
Alteration: ☐ Level I ☐ Level II ☐ Level III
☐ Historic Property ☐ Change of Use

CONSTRUCTED: (date) ______ CURRENT OCCUPANCY(S) (Ch. 3): M–MERCANTILE AND A2–ASSEMBLY
RENOVATED: (date) ______ PROPOSED OCCUPANCY(S) (Ch. 3): ______

RISK CATEGORY (Table 1604.5): **Current:** ☐ I ☐ II ☐ III ☐ IV
Proposed: ☐ I ☐ II ☒ III ☐ IV

BASIC BUILDING DATA
Construction Type: ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A
(check all that apply) ☐ I-B ☐ II-B ☐ III-B ☒ V-B
Sprinklers: ☒ No ☐ Partial ☐ Yes ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
Standpipes: ☒ No ☐ Yes Class ☐ I ☐ II ☐ III Wet ☐ ☐ Dry
Fire District: ☒ No ☐ Yes **Flood Hazard Area:** ☒ No ☐ Yes
Special Inspections Required: ☒ No ☐ Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

Gross Building Area Table

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
3rd Floor			
2nd Floor			
Mezzanine			
1st Floor	0 SQ. FT.	8,193 SQ. FT.	8,193 SQ. FT.
Basement			
TOTAL	0 SQ. FT.	8,193 SQ. FT.	8,193 SQ. FT.

ALLOWABLE AREA

Primary Occupancy Classification(s): Select one Select one Select one Select one Select one Select one
Assembly ☐ A-1 ☒ A-2 ☐ A-3 ☐ A-4 ☐ A-5
Business ☐
Educational ☐
Factory ☐ F-1 Moderate ☐ F-2 Low
Hazardous ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
Institutional ☐ I-1 Condition ☐ 1 ☐ 2
☐ I-2 Condition ☐ 1 ☐ 2
☐ I-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
☐ I-4
Mercantile ☒
Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage ☐ S-1 Moderate ☐ S-2 Low ☐ High-piled
☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility and Miscellaneous ☐

• NEW FREE STANDING 7,880 SQUARE FOOT SHELL BUILDING.

Accessory Occupancy Classification(s): N/A
Incidental Uses (Table 509): N/A
Special Uses (Chapter 4 – List Code Sections): N/A
Special Provisions: (Chapter 5 – List Code Sections): N/A
Mixed Occupancy: ☐ No ☒ Yes Separation: 2 Hr. Exception: ______

☐ Non-Separated Use (508.3) - The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.

☐ Separated Use (508.4) - See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

Actual Area of Occupancy A / Allowable Area of Occupancy A + Actual Area of Occupancy B / Allowable Area of Occupancy B ≤ 1

______ + ______ = ______ ≤ 1.00

FIRE AREA		STORY NO	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2[4] AREA	(C) AREA FOR FRONTAGE INCREASE[1,5]	(D) ALLOWABLE AREA PER STORY OR UNLIMITED[2,3]
A	SUITE 101	1	A2–ASSEMBLY	2,084 S.F.	[illegible] S.F.	N/A	1
B	SUITE 102	1	A2–ASSEMBLY	2,021 S.F.	6,[illegible]	N/A	1
C	SUITE 103	1	M–MERCANTILE	4,088 S.F.	9,000 [illegible]	N/A	1

1 Frontage area increases from Section 506.3 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = N/A (F)
b. Total Building Perimeter = N/A (P)
c. Ratio (F/P) = N/A (F/P)
d. W = Minimum width of public way = N/A (W)
e. Percent of frontage increase If = 100[F/P – 0.25] x W/30 = N/A (%)
2 Unlimited area applicable under conditions of Section 507.
3 Maximum Building Area = total number of stories in the building x D (maximum3 stories) (506.2).
4 The maximum area of open parking garages must comply with Table 406.5.4.
5 Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE 1
Building Height in Feet (Table 504.3) 2	55'–0"	23'–10"	TABLE 504.3
Building Height in Stories (Table 504.4) 3	3 FOR "B" AND 2 FOR "M"	1	TABLE 504.4

1 Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.
2 The maximum height of air traffic control towers must comply with Table 412.3.1.
3 The maximum height of open parking garages must comply with Table 406.5.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	RATING PROVIDED (W/ * REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses							
Bearing Walls	> 30 FT.	0	N/A	N/A	N/A	N/A	N/A
Exterior	> 30 FT.	0	N/A	N/A	N/A	N/A	N/A
North	> 30 FT.	0	N/A	N/A	N/A	N/A	N/A
East	> 30 FT.	0	N/A	N/A	N/A	N/A	N/A
West		0	N/A	N/A	N/A	N/A	N/A
South		0	N/A	N/A	N/A	N/A	N/A
Interior		0	N/A	N/A	N/A	N/A	N/A
Nonbearing Walls and Partitions							
Exterior walls		0	N/A	N/A	N/A	N/A	N/A
North		0	N/A	N/A	N/A	N/A	N/A
East		0	N/A	N/A	N/A	N/A	N/A
West		0	N/A	N/A	N/A	N/A	N/A
South		0	N/A	N/A	N/A	N/A	N/A
Interior walls and partitions		0	N/A	N/A	N/A	N/A	N/A
Floor Construction Including supporting beams and joists		0	N/A	N/A	N/A	N/A	N/A
Floor Ceiling Assembly							
Columns Supporting Floors		0	N/A	N/A	N/A	N/A	N/A
Roof Construction, including supporting beams and joists		0	N/A	N/A	N/A	N/A	N/A
Roof Ceiling Assembly							
Columns Supporting Roof		0	N/A	N/A	N/A	N/A	N/A
Shaft Enclosures - Exit		0	N/A	N/A	N/A	N/A	N/A
Shaft Enclosures - Other		0	N/A	N/A	N/A	N/A	N/A
Corridor Separation		0	N/A	N/A	N/A	N/A	N/A
Occupancy/Fire Barrier Separation		0	N/A	N/A	N/A	N/A	N/A
Party/Fire Wall Separation		0	N/A	N/A	N/A	N/A	N/A
Smoke Barrier Separation		0	N/A	N/A	N/A	N/A	N/A
Smoke Partition		0	N/A	N/A	N/A	N/A	N/A
Tenant Separation		2	2	2/A111	UL #419		
Incidental Use Separation		0	N/A	N/A	N/A	N/A	N/A

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
> 30 FT.	UNPROTECTED, NONSPRINKLERED	NO LIMIT	N/A

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: ☐ No ☒ Yes
Exit Signs: ☐ No ☒ Yes
Fire Alarm: ☒ No ☐ Yes
Smoke Detection Systems: ☐ No ☐ Yes ☒ Partial HVAC
Carbon Monoxide Detection: ☒ No ☐ Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: G101 AND G102
☐ Fire and/or smoke rated wall locations (Chapter 7)
☐ Assumed and real property line locations (if not on the site plan)
☐ Exterior wall opening area with respect to distance to assumed property lines (705.8)
☐ Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
☒ Occupant loads for each area
☒ Exit access travel distances (1017)
☒ Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))
☒ Dead end lengths (1020.4)
☒ Clear exit widths for each exit door
☒ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
☒ Actual occupant load for each exit door
☐ A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
☒ Location of doors with panic hardware (1010.1.10)
☐ Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
☐ Location of doors with electromagnetic egress locks (1010.1.9.9)
☐ Location of doors equipped with hold-open devices
☐ Location of emergency escape windows (1030)
☐ The square footage of each fire area (202)
☐ The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
☐ Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS (SECTION 1107) N/A

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED

ACCESSIBLE PARKING (SECTION 1106)
SEE CIVIL DRAWINGS UNDER A SEPARATE SUBMITTAL

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	TOTAL # OF PARKING SPACES PROVIDED	# OF ACCESSIBLE SPACES PROVIDED: REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE	VAN SPACES WITH 8' ACCESS AISLE	TOTAL # ACCESSIBLE PROVIDED
TOTAL						

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)
RESTROOMS TO BE PROVIDED BY FUTURE TENANT

USE		WATERCLOSETS MALE	WATERCLOSETS FEMALE	WATERCLOSETS UNISEX	URINALS	LAVATORIES MALE	LAVATORIES FEMALE	LAVATORIES UNISEX	SHOWERS /TUBS	DRINKING FOUNTAINS REGULAR	DRINKING FOUNTAINS ACCESSIBLE
SPACE	EXIST'G										
	NEW	–	–			–	–			–	–
	REQ'D	–	–			–	–			–	–

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)

ENERGY SUMMARY

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: ☒ No ☐ Yes (The remainder of this section is not applicable)
Exempt Building: ☒ No ☐ Yes (Provide code or statutory reference): ______
Climate Zone: ☐ 3A ☒ 4A ☐ 5A
Method of Compliance: Energy Code ☐ Performance ☐ Prescriptive ☐ Com-Check
ASHRAE 90.1 ☐ Performance ☐ Prescriptive ☒ Com-Check
(If "Other" specify source here) ______

THERMAL ENVELOPE (Prescriptive method only)

Roof/ceiling Assembly (each assembly)
Description of assembly: METAL BAR JOISTS
U-Value of total assembly: .032
R-Value of insulation: R–28 RIGID INSULATION
Skylights in each assembly: N/A
U-Value of skylight: N/A
total square footage of skylights in each assembly: N/A

Exterior Walls (each assembly)
Description of assembly: METAL STUDS @ 16" O.C.
U-Value of total assembly: 0.064
R-Value of insulation: R–21 [illegible] INSULATION
Openings (windows or doors with glazing)
U-Value of assembly: [illegible]
Solar heat gain coefficient: [illegible]
projection factor: VARIES, [illegible]8, AND 0
Door R-Values: [illegible] FOR U–FACTOR: INSULATED METAL: .5, STOREFRONT DOOR: .77,

Walls below grade (each assembly)
Description of assembly: N/A
U-Value of total assembly: N/A
R-Value of insulation: N/A

Floors over unconditioned space (each assembly)
Description of assembly: N/A
U-Value of total assembly: N/A
R-Value of insulation: N/A

Floors slab on grade
Description of assembly: CONCRETE SLAB ON GRADE, UNHEATED
U-Value of total assembly: .520
R-Value of insulation: 0
Horizontal/vertical requirement: 0
slab heated: NO

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
STRUCTURAL DESIGN
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:
Importance Factors: Snow (IS) 1.0
Seismic (IE) 1.0
Live Loads: Roof 20 psf
Mezzanine N/A psf
Floor N/A psf
Ground Snow Load: 15 psf
Wind Load: Ultimate Wind Speed 90 (ASD) mph (ASCE-7)
Exposure Category B

SEISMIC DESIGN CATEGORY: ☐ A ☒ B ☐ C ☐ D
Provide the following Seismic Design Parameters:
Risk Category (Table 1604.5) ☐ I ☒ II ☐ III ☐ IV
Spectral Response Acceleration SS 16.7 %g S1 8.1 %g
Site Classification (ASCE 7) ☐ A ☐ B ☐ C ☒ D ☐ E ☐ F
Data Source: ☐ Field Test ☒ Presumptive ☐ Historical Data
Basic structural system ☒ Bearing Wall ☐ Dual w/Special Moment Frame
☐ Building Frame ☐ Dual w/Intermediate R/C or Special Steel
☐ Moment Frame ☐ Inverted Pendulum
Analysis Procedure: ☐ Simplified ☒ Equivalent Lateral Force ☐ Dynamic
Architectural, Mechanical, Components anchored? ☒ Yes ☐ No

LATERAL DESIGN CONTROL: Earthquake ☐ Wind ☒

SOIL BEARING CAPACITIES:
Field Test (provide copy of test report) N/A psf
Presumptive Bearing capacity 2000 psf
Pile size, type, and capacity N/A

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
MECHANICAL DESIGN
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone
winter dry bulb: N/A
summer dry bulb: N/A

Interior design conditions
winter dry bulb: N/A
summer dry bulb: N/A
relative humidity: N/A

Building heating load: N/A, UNHEATED SHELL
Building cooling load: N/A, UNHEATED SHELL

Mechanical Spacing Conditioning System
Unitary
description of unit: N/A
heating efficiency: N/A
cooling efficiency: N/A
size category of unit: N/A
Boiler
Size category. If oversized, state reason.: N/A
Chiller
Size category. If oversized, state reason.: N/A
List equipment efficiencies: N/A

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
ELECTRICAL DESIGN
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Energy Code ☐ Performance ☐ Prescriptive
ASHRAE 90.1 ☐ Performance ☒ Prescriptive

Lighting schedule (each fixture type)
lamp type required in fixture SEE "E" SHEETS
number of lamps in fixture SEE "E" SHEETS
ballast type used in the fixture SEE "E" SHEETS
number of ballasts in fixture SEE "E" SHEETS
total wattage per fixture SEE "E" SHEETS
total interior wattage specified vs. allowed (whole building) 960 WATTS VS. 9,929 WATTS ALLOWED
total exterior wattage specified vs. allowed

Additional Efficiency Package Options
(When using the 2018 NCECC; not required for ASHRAE 90.1)
☐ C406.2 More Efficient HVAC Equipment Performance
☐ C406.3 Reduced Lighting Power Density
☐ C406.4 Enhanced Digital Lighting Controls
☐ C406.5 On-Site Renewable Energy
☐ C406.6 Dedicated Outdoor Air System
☐ C406.7 Reduced Energy Use in Service Water Heating

LMHT Project No. 19120.00

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TAMMY DAVIS REGISTERED ARCHITECT 13698 NORTH CAROLINA MORRISVILLE

LMHT ENGINEER LICENSE NUMBER – C-1369

PROJECT: *RETAIL SHOPS*
4809 COUNTRY CLUB ROAD
WINSTON SALEM, NC

DRAWING: APPENDIX 'B'

Revisions

REVISION DATE

PROJECT DATE 6/19/2019
Drawn By MTP
Checked By TD
Sheet No. G002

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