CONVERSION TO:
FIVE GUYS
FAMOUS BURGERS and FRIES

LOCATION: 712 S. E. MAYNARD ROAD, CARY NORTH CAROLINA 27511-5720

ABBREVIATIONS

A	AMPERES	JB	JUNCTION BOX
A/C	AIR CONDITIONING	JT	JOINT
ADD'L	ADDITIONAL	LAV	LAVATORY
AFF	ABOVE FINISH FLOOR	LIN	LINEAR
ASF	ABOVE SUB FLOOR	LP	LOW POINT
ATS	ABOVE TOP OF SLAB	LT	LIGHT
ALT	ALTERNATE	LTG	LIGHTING
ALUM	ALUMINUM	LVL	LAMINATED VENEER LUMBER
APPROX	APPROXIMATE	MAX	MAXIMUM
BD	BOARD	MC	MECH. CONTRACTOR
BLDG	BUILDING	MCB	MAIN CIRCUIT BREAKER
BLK	BLOCK	MECH	MECHANICAL
BLKG	BLOCKING	MFR	MANUFACTURE (R) (ING)
BM	BEAM	MIN	MINIMUM
BOTT	BOTTOM	MISC	MISCELLANEOUS
BRG	BEARING	MLO	MAIN LUGS ONLY
B/	BOTTOM OF	MO	MASONRY OPENING
C	CONDUIT	MT	MOUNT
CB	CIRCUIT BREAKER	MTD	MOUNTED
C/C	CENTER TO CENTER	MTGHT	MOUNTING HEIGHT
CJ	CONSTRUCTION JOINT	MTL	METAL
CKT	CIRCUIT	N	NORTH OR NEUTRAL
CLG	CEILING	NEC	NATIONAL ELECTRIC CODE
CLR	CLEAR	NIC	NOT IN CONTRACT
CNTR	CENTER	NO or #	NUMBER
CMU	CONCRETE MASONRY UNIT	NOM	NOMINAL
CO	CLEAN OUT	NTS	NOT TO SCALE
COL	COLUMN	OC	ON CENTER
CONC	CONCRETE	OD	OUTSIDE DIAMETER
CONSTR	CONSTRUCTION	OPNG	OPENING
CONTR	CONTRACTOR	OPP	OPPOSITE
CONT	CONTINUOUS	PC	PLUMB. CONTRACTOR
DET	DETAIL	PLMB	PLUMBING
DIA	DIAMETER	PLYWD	PLYWOOD
DIM	DIMENSION	PNL	PANEL
DN	DOWN	PNLBD	PANEL BOARD
DS	DOWNSPOUT	PREFAB	PREFABRICATED
DW	DRY WALL	PROJ	PROJECT
DWG	DRAWING	PVC	POLYVINYL CHLORIDE
EA	EACH	R	RADIUS
EC	ELEC. CONTRACTOR	R	RISER
EF	EXHAUST FAN	RD	ROOF DRAIN
EL	ELEVATION	RECEPT	RECEPTACLE
ELEC	ELECTRIC (AL)	REINF	REINFORCING
ELEV	ELEVATOR	REQ'D	REQUIRED
EM	EMERGENCY	RES	RESILIENT
EPS	EXPANDED POLYSTYRENE	REV	REVISION
EQUIP	EQUIPMENT	RM	ROOM
EW	EACH WAY	RO	ROUGH OPENING
EWC	ELECTRIC WATER COOLER	RTU	ROOF TOP UNIT
EWH	ELECTRIC WATER HEATER	SAC	SUSPENDED ACOUSTICAL CEILING
EXIST	EXISTING	SAC-1	SAC-1 HOUR RATED
EXP JT	EXPANSION JOINT	SECT	SECTION
EXT	EXTERIOR	SHT	SHEET
FA	FIRE ALARM	SIM	SIMILAR
FD	FLOOR DRAIN	SPEC	SPECIFICATIONS
FDN	FOUNDATION	STL	STEEL
FIN	FINISH	STRUCT	STRUCTURAL
FLR	FLOOR	STRL	STRUCTURAL
FT	FEET	TEL	TELEPHONE
FTG	FOOTING	T & B	TOP AND BOTTOM
GALV	GALVANIZED	T & G	TONGUE AND GROOVE
GC	GENERAL CONTRACTOR	T	TREAD
GFI	GROUND FAULT INTERUPTER	T/	TOP OF
GND	GROUND	TYP	TYPICAL
GYP	GYPSUM	UON	UNLESS OTHERWISE NOTED
HDW	HARDWARE	V	VOLTS
HM	HOLLOW METAL	VCT	VINYL COMPOSITION TILE
HORIZ	HORIZONTAL	VERT	VERTICAL
HP	HIGH POINT OR HORSE POWER	VWC	VINYL WALL COVERING
HT	HEIGHT	WC	WATER CLOSET
HVAC	HEATING/VENTILATION/AIR CONDITIONING	WD	WOOD
ID	INSIDE DIAMETER	WH	WATER HEATER
IN	INCH	WP	WATER PROOF
INFO	INFORMATION	WR	WATER RESISTANT
INSUL	INSULATION	W/	WITH
INT	INTERIOR	W/O	WITHOUT
INV	INVERT	WWF	WELDED WIRE FABRIC
		XFMR	TRANSFORMER

CONTRACTOR:

SPECTRUM BUILDING COMPANY, INC
142 F. Cardigan Way
Mooresville, North Carolina 28117
704-660-1044

ARCHITECT:

LEHMANN MEHLER HIRST THORNTON ASSOCIATES, P.A.
2805 Meridian Parkway
Durham, North Carolina 27713
(919) 544-0087 (919) 544-9399 fax

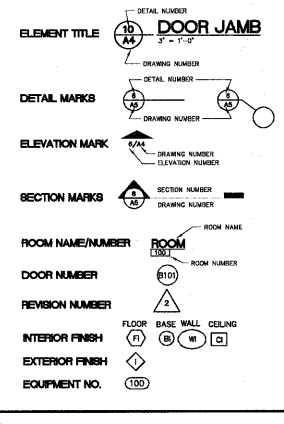
PLUMBING / MECHANICAL/ ELECTRICAL:

LEHMANN MEHLER HIRST THORNTON ASSOCIATES, P.A.
2805 Meridian Parkway
Durham, North Carolina 27713
(919) 544-0087 (919) 544-9399 fax

OWNER:

RUFF GUYS BURGER COMPANY, LLC
11809 Lyrac Court
Oakton, VA 22124
(703) 620-5228 (703) 620-3241 fax

DRAFTING SYMBOLS



LIST OF DRAWINGS

ARCHITECTURAL SET

- CS1 – TITLE SHEET
- L1 – SITE PLAN
- D1 – DEMOLITION PLAN
- A1 – FLOOR PLAN
- A2 – REFLECTED CEILING PLAN
- A3 – FINISH PLAN & SCHEDULE
- A4 – EXTERIOR ELEVATIONS
- A5 – INTERIOR ELEVATIONS
- A6 – SECTIONS & DETAILS
- A7 – TOILET ROOM PLAN & ELEVATIONS
- A8 – TRASH ENCLOSURE PLAN AND DETAILS
- EQ1 – EQUIPMENT PLAN
- EQ2 – EQUIPMENT SCHEDULE
- P1 – PLUMBING WASTE AND VENT PLAN
- P2 – PLUMBING WATER AND GAS PLAN
- P3 – PLUMBING WASTE AND VENT RISER AND DETAILS
- P4 – PLUMBING WATER AND GAS RISERS AND DETAILS
- M1 – MECHANICAL NOTES, LEGENDS, AND SCHEDULES
- M2 – MECHANICAL PLAN
- M3 – MECHANICAL DETAILS
- M4 – MECHANICAL CONTROLS
- E1 – ELECTRICAL LEGEND & SCHEDULES
- E2 – ELECTRICAL LIGHTING PLAN
- E3 – ELECTRICAL POWER PLAN
- E4 – ELECTRICAL CONTROLS
- H1 – HOOD DETAILS
- H2 – HOOD DETAILS
- SP1 – SPECIFICATIONS
- SP2 – SPECIFICATIONS
- SP3 – SPECIFICATIONS
- SP4 – SPECIFICATIONS
- SP5 – SPECIFICATIONS
- SP6 – SPECIFICATIONS

DESIGNERS OF RECORD

DISCIPLINE	NAME	LICENSE #	TEL. NUMBER
ARCHITECT:	LEE N. MEHLER	3104	(919) 544-0087
ELECTRICAL:	ALAN CAVE	27341	(919) 544-0087
MECHANICAL:	N. RAY THORNTON JR.	17561	(919) 544-0087
PLUMBING:	N. RAY THORNTON JR.	17561	(919) 544-0087
STRUCTURAL:	N/A		
CIVIL:	N/A		

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CITY OF CARY BUILDING CODE SUMMARY

CITY OF CARY BUILDING CODE SUMMARY

Name of Project: FIVE GUYS- 712 S.E. MAYNARD RD., CARY, N.C. 27511-5720 Authorized Agent: LEE MEHLER LMHT ASSOCIATES, PA

Address: 2805 MERIDIAN PARKWAY, DURHAM, NC 27713 Contact E-Mail: SMORECRAFT@lmht.com

Telephone: (919) 544-0087 Fax: (919) 544-9399

SCOPE OF WORK: CONVERT FORMER BANK BUILDING INTO FIVE GUYS RESTAURANT

PROJECT COORDINATOR	LEE N. MEHLER	3104	(919) 544-0087
	name	license #	telephone #

	name	license #	telephone #
Architectural	LEE N. MEHLER	3104	(919) 544-0087
Civil	N/A		
Electrical	ALAN CAVE	27341	(919) 544-0087
Plumbing	N. RAY THORNTON, JR.		(919) 544-0087
Mechanical	N. RAY THORNTON, JR.		(919) 544-0087
Sprinkler–	N/A		
Structural	N/A		
Pre–cast	N/A		
Truss	N/A		
Other	N/A		

BUILDING CODE AND EDITION:
2002 NORTH CAROLINA STATE BUILDING CODE W/2002 INTERNATIONAL CODE/NC AMENDMENTS
2002 NEC/2002 NC STATE PLUMBING CODE

☐New Construction ☒ Renovation (Existing Bldg) ☒Interior Completion ☐ Alteration ☒ Addition
☐Shell (Complete Shell Variable Form)

OCCUPANCY GROUP A2–RESTAURANT
ACCESSORY USE (INDICATE PERCENTAGE) OK N/A
INCIDENTAL USE N/A

Mixed Occupancy: ☒ No ☐ Yes
☐Non–Separated Mixed Occupancy
☐Separated Mixed Occupancy (Provide calculations as indicate below)

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

GENERAL BUILDING DATA:
Construction Type: EXISTING (ASSUMED II (0)- NEW ADDITION II (0)) 1

Sprinkler and System: N/A
Type N/A
Standpipes: N/A

Building Height: 1-23'-0" Number of Stories 1
Mezzanine: ☒No ☐ Yes
High Rise: ☒No ☐ Yes

Gross Building Area: THIS SECTION FOR ADDITION, NEW AND CHANGE OF USE

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB–TOTAL
Basement			
1st Floor	2475 SF	464 SF	2939 SF
2nd Floor	N/A		
3rd Floor	N/A		
4th Floor	N/A		
Mezzanine	N/A		
Total			2964 SF

Allowable Area and Height Calculations EXISTING BUILDING TO REMAIN– NOT APPLICABLE

Building Information Open Frontage Perimeter N/A
Area N/A North N/A
Height N/A South N/A
Height N/A East N/A
Total Area N/A West N/A
Total N/A

Increase HEIGHT INCREASE N/A
Frontage N/A
Sprinkler N/A

FRONTAGE INCREASE FORMULA ALLOWABLE AREA FORMULA

$I_f = 100\left(\frac{F}{P} - 0.25\right)\frac{W}{30}$

ALLOWABLE AREA FORMULA

$A_a = A_t + \left(\frac{A_t \text{ IF}}{100}\right) + \left(\frac{A_t \text{ Is}}{100}\right)$

Aa = ALLOWABLE AREA
At = TABULAR AREA
IF = INCREASE FOR OPEN FRONTAGE (PERCENTAGE)
Is = INCREASE FOR SPRINKLER PROTECTION (PERCENT)

TOTAL GROSS AREA

$A_g = n(A_a)$

Aa = ALLOWABLE AREA
n= NUMBER OF STORIES ABOVE GRADE

FIRE RESISTIVE INFORMATION

	Required Hourly #1	Detail # & Sheet # 2	Design No. for Rated Penetrations #2	Design No. for Rated Assemblies #2
Interior Bearing Walls	EXIST. N/A	N/A	N/A	N/A
Interior Non–bearing Walls	0			
Exterior Bearing Walls/Non–bearing	EXIST. N/A			
Exterior Non–bearing Walls	0			
Ceiling–Floors Assembly:				
Beams:	EXIST. N/A			
Columns:	EXIST. N/A			
Ceiling–Roof Assembly:	0			
Shafts–Exit:	N/A			
Shafts–Other:	0			
Corridor Separation:	N/A			
Occupancy Separation:	N/A			
Party/Fire Wall Separation:	N/A			
Smoke Barrier Separation:	N/A			
Tenant Separation:	N/A			

	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D W/SPRINKLER REDUCTION	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY SEE #2 ABOVE	DESIGN # FOR RATED PENETRATION SEE #2 ABOVE	DESIGN # FOR RATED JOINTS SEE #2 ABOVE
STRUCTURAL FRAME, INCLUDING COLUMNS, GIRDERS, TRUSSES 1	N/A	N/A	N/A	N/A	N/A	N/A
BEARING WALLS						
EXTERIOR						
NORTH						
EAST						
WEST						
SOUTH						
INTERIOR						
NORTH						
EAST						
WEST						
SOUTH						
NON BEARING WALLS AND PARTITIONS EXTERIOR						
INTERIOR						
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOIST						
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOIST						
HORIZONTAL FIRE RATINGS TENTING, RADIATION DAMPERS, COMBUSTIBLES, ETC.						

#1. Required if wall to property line or assumed line is less than 30 feet.
#2. Reproduce Full UL or other Approved Agencies Details or Reproductions of rated assemblies/penetrations on the drawings.

PERCENTAGE OF WALL OPENING CALCULATIONS

704.8 N/A– EXISTING TO REMAIN

WALL LEGENDS
THE FOLLOWING SHALL BE INDICATED BY A WALL LEGEND ON THE PLAN
FIRE PARTITIONS FIRE WALLS FIRE BARRIERS
EXIT PASSAGE WAYS SMOKE TIGHT WALLS SHAFT ENCLOSURES
EXIT ENCLOSURES SMOKE BARRIERS
MEANS OF EGRESS INFORMATION THIS SECTION FOR ADDITION, NEW AND CHANGE OF USE

FLOOR ROOM OR SPACE DESIGNATION	MINIMUM NUMBER OF EXITS		TRAVEL DISTANCE		ARRANGEMENT OF MEANS OF EGRESS	
	REQUIRED	SHOWN ON PLANS	ALLOWABLE TRAVEL DISTANCE	ACTUAL TRAVEL DISTANCE	REQUIRED DISTANCE BETWEEN EXITS	ACTUAL DISTANCE
KITCHEN ADDITION	2	2	200'	50'	30'–0"	40'

USE GROUP OR SPACE DESIGNATION	(A) AREA	(B) AREA PER OCCUPANT	(B) EGRESS PER OCCUPANT		DOOR WIDTH REQUIRED WIDTH	ACTUAL WIDTH	
			STAIR	LEVEL	STAIR	LEVEL	STAIR LEVEL
RESTAURANT	2964 SF		N/A	0.2"	N/A	22.8"	N/A 144"

ASSEMBLY OCCUPANCY INFORMATION:

BY SEATING:

SEATS (ACTUAL)	= 88
WAITING (114 SF/5)	= 23
KITCH/EMPLOYEE (505 SF/200)	= 3
TOTAL	= 117

BY AREA:

DINING (1317 SF/15)	= 88
WAITING (114 SF/5)	= 23
KITCHEN (505 SF/200)	= 3
TOTAL	= 114

DESIGN LOADS

Classification of Building: Category/Use Group EXIST. (ASSUMED IIB) ADDITION: IIB (I, II, III, IV)
Live Load: Roof EXISTING PSF
Attic EXIST. PSF
Mezzanine N/A PSF
Floor 100 PSF
Snow Load: Flat–Roof Load _____ PSF Thermal Factor _____
Exposure Factor _____ Importance Factor _____
Wind Load: Basic Speed _____ MPH (3–second gust, ASCE–7–98 Edition)
Exposure _____ Importance Factor _____
Internal Pressure Coefficient _____ Components & Cladding _____
Earthquake Load: Design Category _____ Site Class _____
Prescriptive _____ Importance Factor _____

Wind Base Shears (for MWFRS) Vx = _____ Vy = _____

SEISMIC DESIGN CATEGORY A

Compliance with Section 1616.4 only? Yes No
SEISMIC DESIGN CATEGORY B, C, & D
Provide the following Seismic Design Parameters:
Importance Factor _____
Seismic Use Group _____
Spectral Response Acceleration Sms _____ %g Sm1 _____ %g
Site Classification
Basic structural system (check one)
_____ Bearing Wall _____ Dual w/Special Moment Frame
_____ Building Frame _____ Dual w/Intermediate R/C or Special Steel
_____ Moment Frame _____ Inverted Pendulum
Seismic base shear V= _____
Analysis Procedure _____ Simplified _____ Equivalent Lateral Force _____ Modal
Architectural, Mechanical, Components anchored? _____

SEISMIC DESIGN CATEGORY A (EXISTING BUILDING – THIS INFO FOR ADDITION ONLY)

Compliance with Section 1616.4 only? Yes No
SEISMIC DESIGN CATEGORY A,(B, C, & D
Provide the following Seismic Design Parameters:
Importance Factor 1
Seismic Use Group I
Spectral Response Acceleration Sms 35 %g Sm1 25 %g
Site Classification D
Basic structural system (check one)
_____ Bearing Wall _____ Dual w/Special Moment Frames
_____ Building Frame _____ Dual w/Intermediate R/C or Special Steel
_____ Moment Frame _____ Inverted Pendulum
Seismic base shear V= 39 kips
Analysis Procedure _____ Simplified _____ Equivalent Lateral Force _____ Modal
Architectural, Mechanical, Components anchored? YES
Lateral design Control: Earthquake N/A Wind X/Y
Soil Bearing Capacities: 2000 PSF PRESUMED
Field Test (provided copy of test report) _____ psf.
Presumptive Bearing capacity 2000 PSF PRESUMED psf.
Pile size, type, and capacity N/A

Plumbing Requirements

TOTAL SQ. FEET	MULTIPLIED BY ALLOWED DIVERSITY	EQUALS ADJ SQ. FEET	DIVIDED BY AREA PER PERSON	TOTAL OCCUPANT LOAD	RATIO OF MALE & FEMALE	TOTAL MALE	TOTAL FEMALE
2964	–	–	–	114	50%/50%	57	57

OCCUPANCY USE	WATER CLOSET M	WATER CLOSET F	URINALS	LAVS M	LAVS F	SHOWERS & TUBS	DRINKING FOUNTAINS	NOTES & EXCEPTIONS
RESTAURANT	1	1	0	1	1	N/A	N/A	

BUILDING DRAIN SIZE	NUMBER OF BUILDING DRAINS	TOTAL FIXTURE UNIT LOAD	WATER SERVICE SIZE	NUMBER OF WATER SERVICE	TOTAL FIXTURE UNIT LOAD	NOTES
4"	2	54	1 1/2"	1	47.5	

PARKING SPACES 27 EXISTING SPACES
Total Accessible Spaces 2 provided (8' space, 5' aisle)
Van Spaces 1 1 in 8 required (8' space, 8'aisle)

THERMAL ENVELOPE
Method of Compliance:
Prescriptive (Performance) Energy Cost Budget
Roof/ceiling Assembly (each assembly)
Description of assembly – Wood Truss, R–30 Batt Insul., Metal Roofing
U–Value of total assembly – 0.032
R–Value of insulation– R–30
Skylights in each assembly – none
U–Value of skylight
Total square footage of skylights in each assembly

Exterior Walls (each assembly)
Description of assembly – Existing, Assume: Face Brick, 1/2" Plywood, 3–1/2" Batt Insul (R–11), Wood Studs, 5/8" Gyp. Board
U–Value of total assembly – 0.076
R–Value of Insulation– R–11
Openings (windows or doors with glazing) – none
U–Value of assembly
Shading coefficient
Projection factor
Low e required, if applicable
Door R–Values – 0.30

Walls adjacent to unconditioned space (each assembly) – none
Description of assembly
U–Value of total assembly
R–Value of Insulation
Openings (windows or doors with glazing)
U–Value of assembly
Low e required, if applicable
Door R–Values
Walls below grade (each assembly) – none
Description of assembly
U–Value of total assembly
R–Value of Insulation
Floors over unconditioned space (each assembly) – none
Description of assembly
U–Value of total assembly
R–Value of Insulation
Floors slab on grade
Description of assembly – quarry tile on 4" thk. reinf. P.C. slab on crushed pourus fill.
U–Value of total assembly – 0
R–Value of Insulation – 0
Horizontal/vertical requirement – none
Slab heated – no

ELECTRICAL SYSTEM AND EQUIPMENT SEE ENGINEERING DRAWINGS

Method of Compliance:
Prescriptive Performance X Energy Cost Budget
Provide a standard riser diagram which indicates designated points for check metering. Provide a standard panel schedule description which identifies different end–use loads.

Lighting schedule
Lamp type required in fixture: See "E" drawings
Number of lamps in fixture: See "E" drawings
Ballast type used in the fixture: See "E" drawings
Number of ballasts in fixture: See "E" drawings
Total wattage per fixture: See "E" drawings
Total interior wattage specified vs allowed: 5,064 vs 5,239
Total exterior wattage specified vs allowed: See site drawing
Equipment schedules with motors (not used for mechanical systems): None
Motor horsepower
Number of phases
Minimum efficiency
Motor type
# of poles

MECHANICAL SYSTEMS, SERVICE SYSTEMS, AND EQUIPMENT

METHOD OF COPLIANCE:
PRESCRIPTIVE ENERGY COST BUDGET

THERMAL ZONE: 7a
EXTERIOR DESIGN CONDITIONS: WINTER DRY BULB: 15°F; SUMMER DRY BULB: 90°F
INTERIOR DESIGN CONDITIONS: WINTER DRY BULB: 70°F; SUMMER DRY BULB: 75°F; RELATIVE HUMIDITY: 55%
BUILDING HEATING LOAD: 103.7 MBH
BUILDING COOLING LOAD: 108.3 MBH
MECHANICAL SPACE CONDITIONING SYSTEM TRANE

	SYS #1	SYS #2
UNITARY		
DESCRIPTION OF UNIT:	6 TON/GAS HT.	8.5 TON/GAS HT.
HEATING EFFICIENCY:	80 %	80 %
COOLING EFFICIENCY:	EER 10.2	EER 10.1
HEAT OUTPUT OF UNIT:	64 MBH	96 MBH
COOLING OUTPUT OF UNIT:	60 MBH	92 MBH
BOILER:	NONE	
CHILLER:	NONE	

LIST EQUIPMENT EFFICIENCIES:
EQUIPMENT SCHEDULES WITH MOTORS (MECHANICAL SYSTEMS) (BY OTHERS)
MOTOR HORSEPOWER:
NUMBER OF PHASES:
MINIMUM EFFICIENCY:
MOTOR TYPE:
NUMBER OF POLES:

LMHT Project No. 06153

Lehmann Mehler Hirst Thornton Associates
engineers/architects
2805 Meridian Parkway Durham, North Carolina 27713
Tel: (919) 544-0087 Fax: (919) 544-9399

FIVE GUYS
FAMOUS BURGERS AND FRIES
Location: 712 SE MAYNARD ROAD CARY, NORTH CAROLINA
Drawing: COVER SHEET

FIVE GUYS
FAMOUS BURGERS and FRIES

Revisions
1 CITY COMMENTS 8/9/06

PROJECT DATE 6/26/06
DRAWN BY VA
CHECKED BY SJM
Sheet No. CS1
1 OF 13

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