APPENDIX B
2018 BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT ONE AND TWO-FAMILY DWELLINGS AND TOWNHOUSES)

Name of Project: HOLLOWAY ST. ABC STORE RENOVATIONS
Address: 1928 HOLLOWAY ST, DURHAM NC Zip Code 27703
Owner or Auth. Agent: DURHAM COUNTY ABC BOARD Phone # (919) 419-6217 Email mwalters@durhamabc.com
Owned By: [X] City/County [ ] Private [ ] State
Code Enforcement Jurisdiction: [X] City INSPECTIONS [ ] County [ ] State

CONTACT: J. PAUL YOUNG, DTW ARCHITECTS, 919.317.4020, PYOUNG@DTWARCH.COM

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	EMAIL
Architectural	DTW ARCHITECTS	P. YOUNG	04837	(919) 317-4020	pyoung@dtwarch.com
Civil	COULTER JEWELL THAMES	P. ROYSTER	35003	(919) 682-0368	proyster@cjtpa.com
Electrical	EDMONDSON ENG.	D. HAYES	028669	(919) 544-1936	dennis@edmpa.com
Fire Alarm	EDMONDSON ENG.	D. HAYES	028669	(919) 544-1936	dennis@edmpa.com
Plumbing	EDMONDSON ENG.	C. CROWL	028862	(919) 544-1936	charles@edmpa.com
Mechanical	EDMONDSON ENG.	C. CROWL	028862	(919) 544-1936	charles@edmpa.com
Spr.-Stand.					
Structural	SARMIRAN	J. CZAR	029015	(919) 241-8745	jczar@sarmiran.com
Ret. Walls >5' High					
Other	LANDSCAPE	A. PORTER	01826	(919) 682-0368	andrew.porter@cjtpa.com

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

2018 BUILDING CODE: [ ] New Building [ ] Shell/Core [ ] 1st Time Interior Completions [ ] Addition [ ] Phased Construction-Shell Core

2018 NC EXISTING BUILDING CODE: (check all that apply) [ ] Prescriptive [ ] Alteration - Lvl 1 [ ] Historic Property [ ] Repair [ ] Alteration - Lvl 2 [ ] Change of Use [ ] Chapter 14 [X] Alteration - Lvl 3

CONSTRUCTED: (date) ? CURRENT USE(S): (Ch. 3) MERCANTILE
RENOVATED: (date) ? PROPOSED USE(S): (Ch. 3): NO CHANGE
OCCUPANCY CATEGORY (Table 1604.5): Current: MERCANTILE Proposed: NO CHANGE

BASIC BUILDING DATA

Construction Type: (check all that apply) [ ] I-A [ ] II-A [ ] III-A [ ] IV [ ] V-A; [ ] I-B [X] II-B [ ] III-B [ ] V-B
Sprinklers: [X] No [ ] Partial [ ] NFPA 13 [ ] NFPA 13R [ ] NFPA 13D
Standpipes: [X] No Class [ ] I [ ] II [ ] III [ ] Wet [ ] Dry
Primary Fire District: [X] No [ ] Yes Flood Hazard Area: [X] No [ ] Yes
Special Inspections Required: [X] No [ ] Yes

GROSS BUILDING AREA TABLE

FLOOR	EXISTING (SQ FT)	RENOVATED (SQ FT)	NEW (SQ FT)	SUB-TOTAL
6th Floor				
5th Floor				
4th Floor				
3rd Floor				
2nd Floor				
Mezzanine				
1st Floor	2,705.91	2,705.91	1,355.67	4,061.58
Basement				
TOTAL	2,705.91	2,705.91	1,355.67	4061.58

ALLOWABLE AREA

Primary Occupancy Classification (s):

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	[ ] I-2	[ ] I-3	[ ] I-4	
I-3 Condition	[ ] 1	[ ] 2			
I-2 Condition	[ ] 1	[ ] 2			
I-3 Condition	[ ] 1	[ ] 2	[ ] H-3 Combust	[ ] H-4 Health	[ ] H-5 HPM
Mercantile	[X]				
Residential	[ ] R-1	[ ] R-2	[ ] R-3	[ ] R-4	
Storage	[ ] S-1 Moderate	[X] S-2 Low	[ ] High-piled	[ ] Parking Garage	
		[ ] Open	[ ] Enclosed	[ ] Repair Garage	
Utility and Misc.	[ ]				

Accessory Occupancies Classification(s):
Incidental Uses (Table 509): This separation is not exempt as a Non-separated Use (see exceptions).
Special Uses (Chapter 4 - List Code Sections):
Special Provisions (Chapter 5 - List Code Sections):
Mix Occupancy: [ ] No [X] Yes Separation: 0 Hr. Exception:

[X] Non-separated Use (508.3)

[ ] 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

STORY NO.	DESCRIPTION AND USE	(A) BLDG. AREA PER STORY (ACTUAL)	TABLE 506.2 AREA	(C) AREA FOR FRONTAGE INCREASE 1, 5	(B) ALLOWABLE AREA PER STORY OR UNLIMITED 2, 3

1. Frontage area increases from Section 506.2 are computed thus:
   a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (F)
   b. Total Building Perimeter = _____ (P)
   c. Ratio (F/P) = _____ (F/P)
   d. W = Minimum width of public way = _____ (W)
2. Unlimited area applicable under conditions of Sections 507.
3. Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
4. The maximum area of open parking garages must comply with Table 406.5.4. The maximum area of air traffic control towers must comply with Table 412.3.1.
5. Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)			
Building Height in Stories (Table 504.3)			

1. Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	RATING (W/ ____ REDUCTION) PROVIDED	DETAIL# AND SHEET#	DESIGN# FOR RATED ASSEMBLY	SHEET# FOR RATED PENETRATION	SHEET# FOR RATED JOINTS
Structural Frame, Including Columns, Girders, Trusses		0					
Bearing walls							
Exterior		0					
North		0					
East		0					
West		0					
South		0					
Interior		0					
Nonbearing Walls and Partitions		0					
Exterior		0					
North		0					
East		0					
West		0					
South		0					
Interior walls and partitions		0					
Floor construction Including supporting beams and joists		-					
Floor Ceiling Assembly		0					
Columns Supporting Floors		-					
Roof construction Including supporting beams and joists		0					
Roof Ceiling Assembly		0					
Columns Supporting Roof		0					
Shafts Enclosures - Exit		0					
Shafts Enclosures - Other		-					
Corridor Separation		-					
Occupancy/Fire Barrier Separation		-					
Party/Fire Wall Separation		-					
Smoke Barrier Separation		-					
Smoke Partition		-					
Tenant/Dwelling Unit/ Sleeping Unit Separation		-					
Incidental Use Separation		-					

*Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (feet) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (UNPROTECTED)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)

N/A

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting:	[X] Yes	[ ] No
Exit Signs:	[X] Yes	[ ] No
Fire Alarm:	[X] Yes	[ ] No
Smoke Detection Systems:	[X] Yes	[ ] No
Carbon Monoxide Detection:	[ ] Yes	[X] No

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: T2

- [ ] 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)
- [X] Occupancy Use for each area as it relates to occupancy load calculations (Table 1004.1.2)
- [X] Occupant loads for each area
- [X] Exit access travel distances (1017)
- [ ] Common path of travel distances (Table 1006.2.1 or 1006.3.2(1))
- [X] Dead end lengths (1020.4)
- [X] Clear exit widths for each exit door
- [X] Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
- [X] 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
- [X] Location of doors with panic hardware (1010.1.10)
- [X] 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)

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

N/A

ACCESSIBLE PARKING
(SECTION 1106)

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

N/A

PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

USE		WATER CLOSETS Male	WATER CLOSETS Female	WATER CLOSETS Unisex	URINALS	LAVATORIES Male	LAVATORIES Female	LAVATORIES Unisex	SHOWERS /TUBS	DRINKING FOUNTAINS REGULAR	DRINKING FOUNTAINS ACCESSIBLE
SPACE	EXISTING			0				0		0	0
	NEW			1				1		1	1
	REQUIRED			1				1		1	1

*See sheet T2 for exception

SPECIAL APPROVALS

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

ENERGY SUMMARY

ENERGY REQUIREMENTS:

The following data shall be considered minimum and any special attributes 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 sheets. If performance method, state the annual energy cost for the standard reference design versus the annual energy cost for the proposed design.

Existing building envelope complies with code: [ ] (If checked, the remainder of this section is not applicable.)
Exempt Building: [ ] Provide code or statutory reference:
Climate Zone: [ ] 3A [ ] 4A [ ] 5A
Method of Compliance:
Energy Code: [ ] Performance [ ] Prescriptive
ASHSAE 90.1: [ ] Performance [ ] Prescriptive
Other: [ ] Performance (specify source)

THERMAL ENVELOPE: (Prescriptive method only)

Roof/Ceiling Assembly (each assembly)
Description of assembly SINGLE PLY ROOFING W/ RIGID INSULATION ON METAL DECK
U-Value of total assembly
R-Value of insulation R-30 CONTINUOUS
Skylights in each assembly —
U-Value of skylight —
Total square footage of skylights in each assembly —

Exterior Walls (each assembly)
Description of assembly 8" CMU W/ RIGID INSULATION, 2" AIR SPACE + 4" BRICK
U-Value of total assembly
R-Value of insulation R-10 CONTINUOUS
Openings (windows or doors with glazing)
U-Value of assembly
Solar heat gain coefficient
Projection factor
Door R-Values

Walls below grade (each assembly)
Description of assembly
U-Value of total assembly
R-Value of insulation —

Floors over conditioned space (each assembly)
Description of assembly
U-Value of total assembly —
R-Value of insulation —

Floors slab on grade
Description of assembly 4" CONCRETE W/ VAPOR BARRIER & STONE, HORIZONTAL INSULATION
U-Value of total assembly
R-Value of insulation R-10 CONTINUOUS
Horizontal/vertical requirement HORIZONTAL TO BOTTOM OF FOOTING
Slab heated NO

STRUCTURAL DESIGN

DESIGN LOADS:
Importance Factors: Wind (I_W) Snow (I_S) Seismic (I_E)
Live Loads: Roof psf; Mezzanine psf; Floor psf
Ground Snow Load: psf
Wind Load: Basic Wind Speed (3 sec. gust) mph (ASCE-7); Exposure Category

SEISMIC DESIGN CATEGORY: [ ] A [ ] B [ ] C [ ] D
Provide the following Seismic Design Parameters:
Occupancy Category (Table 1604.5) [ ] I [ ] II [ ] III [ ] IV
Spectral Response Acceleration S_S %g S_1 %g
Site Classification (ASCE 7) [ ] A [ ] B [ ] C [ ] D [ ] E [ ] F
Data Source: [ ] Field Test [ ] Presumptive [ ] Historical Data
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
Analysis Procedure: [ ] Simplified [ ] Equivalent Lateral Force [ ] Dynamic
Architectural, Mechanical, Components anchored? [ ] Yes [ ] No
Seismic base shear: Vx = Vy =

LATERAL DESIGN CONTROL: [ ] Earthquake [ ] Wind

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

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone
Winter dry bulb
Summer dry bulb

Interior design conditions
Winter dry bulb
Summer dry bulb
Relative humidity

Building heating load
Building cooling load

Mechanical Spacing Conditioning System
Unitary
Description of unit
Heating efficiency
Cooling efficiency
Size category of unit
Boiler
Size category. If oversized, state reason.
Chiller
Size category. If oversized, state reason.

List equipment efficiencies

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance
Energy Code: [ ] Prescriptive [ ] Performance
ASHRAE 90.1: [ ] Prescriptive [ ] Performance

Lighting Schedule (each fixture type)
Lamps required in fixture
Number of lamps in fixture
Ballast type required in the fixture
Number of ballasts in the fixture
Total wattage per fixture
Total interior wattage specified vs. allowed
Total exterior wattage specified vs. allowed

Additional Prescriptive Compliance
- [ ] 506.2.1 More Efficient Mechanical Equipment
- [ ] 506.2.2 Reduced Lighting Power Density
- [ ] 506.2.3 Energy Recovery Ventilation Systems
- [ ] 506.2.4 Higher Efficiency Service Water Heating
- [ ] 506.2.5 On-site Supply of Renewable Energy
- [ ] 506.2.6 Automatic Daylighting Control Systems

ABBREVIATIONS

@	at	LAM.	laminate
ALT.	alternate	LAV.	lavatory
ALUM.	aluminum	LTL.	lintel
APPR.	approximate	LT. WT.	light weight
BD.	board	MAG.	magnetic
BLDG.	building	MAS.	masonry
B.U.R.	built up roof	MAX.	maximum
C.J.	control joint	MECH.	mechanical
CLG.	ceiling	MIN.	minimum
CLR.	clear	M.O.	masonry opening
C.M.U.	concrete masonry unit	M.R.	moisture resistant
COL.	column	M.T.	metal threshold
CONC.	concrete	MTL. or MET.	metal
CONT.	continuous	N.I.C.	not in contract
CONTR.	contractor	N.T.S.	not to scale
C.T.	ceramic tile	O.C.	on center
DIM.	dimension	OPN'G	opening
DN.	down	OPP.	opposite
DS.	downspout	PART'N.	partition
DWG.	drawing	PL.	plate
EA.	each	PLYW'D.	plywood
E.J.	expansion joint	PREFIN.	pre-finish
EL. or ELEV.	elevation	PT.	point
ELEC.	electrical	PWR.	power
EQ.	equal	R.A.G.	return air grill
E.W.C.	electric water cooler	R.D.	roof drain
EXIST.	existing	REF.	reference
EXP.	expansion	REINF.	reinforced
F.D.	floor drain	REQ'D.	required
FIN.	finish	RM.	room
FL.	floor	RW. L.	rainwater leader
F.O.B.	face of brick	SIM.	similar
F.O.C.	face of concrete	S. STL.	stainless steel
F.O.M.	face of masonry	STL.	steel
GA.	gauge	STRUCT.	structural
GALV.	galvanized	SUSP.	suspended
G.B.	grab bar	TH'LD.	threshold
GL.	glass	TYP.	typical
GYP.	gypsum	V.C.T.	vinyl composition tile
H.M.	hollow metal	V.I.F.	verify in field
HT.	height	V.W.C.	vinyl wall covering
INSUL.	insulation	WD.	wood
INV.	invert	W/	with
JT.	joint		

SYMBOLS AND NOTATIONS

NAME / 000 — AREA NAME / AREA NUMBER
00 — DOOR TYPE OR NUMBER
0 / A0 — DRAWING NUMBER / SHEET NUMBER
0 / A0 — ELEVATION NUMBER & DIRECTION OF VIEW / SHEET NUMBER
0 / A0 — SECTION NUMBER & DIRECTION OF VIEW / SHEET NUMBER
0 / A0 — DETAIL NUMBER / SHEET NUMBER
XX — COULMN LINE NUMBER
00 — EQUIPMENT TYPE OR NUMBER
a — CASEWORK TYPE OR NUMBER

CONCRETE MASONRY
BRICK
CONCRETE
PLYWOOD
FINISH WOOD
BATT INSULATION
RIGID INSULATION
PLASTER, GYP. BD.
EARTH

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DATA SHEET

RENOVATIONS AND ADDITIONS TO:

HOLLOWAY STREET ABC STORE

1928 HOLLOWAY ST. DURHAM, NC

PROJECT NUMBER 19002

J. PAUL YOUNG II REGISTERED LANDSCAPE ARCHITECT NORTH CAROLINA 11388 DURHAM, N.C.
12/20/19

DTW ARCHITECTS AND PLANNERS, LTD. REGISTERED ARCHITECTURAL CORPORATION CERT. NO. 162 NORTH CAROLINA DURHAM, N.C.

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Date 12/22/19
Sheet T1
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