

**2018 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2 FAMILY DWELLINGS AND TOWNHOUSES)**

NAME OF PROJECT: T & L COATS BUILDING #1
 ADDRESS: HIGHWAY 27 COATS ZIP CODE: 27527
 OWNER/AUTHORIZED AGENT: ROBERT BAREFOOT PHONE #: (910) 890-3256 EMAIL: WBAREFOOT@YAHOO.COM
 OWNED BY: CITY/COUNTY PRIVATE STATE
 CODE ENFORCEMENT JURISDICTION: CITY COUNTY HARNETT STATE
 LEAD DESIGN PROFESSIONAL: CRUSE & ASSOCIATES, P.A.
 DESIGNER FIRM NAME LICENSE # TELEPHONE NO. E-MAIL
 ARCHITECTURAL BUILDING CRUSE & ASSOCIATES, P.A. RANDY CRUSE, PE 18909 910-892-4429 RCRUSE@CRUSEASSOCIATES.COM
 CIVIL CRUSE & ASSOCIATES, P.A. RANDY CRUSE, PE 18909 910-892-4429 RCRUSE@CRUSEASSOCIATES.COM
 ELECTRICAL CRUSE & ASSOCIATES, P.A. RANDY CRUSE, PE 18909 910-892-4429 RCRUSE@CRUSEASSOCIATES.COM
 FIRE ALARM CRUSE & ASSOCIATES, P.A. RANDY CRUSE, PE 18909 910-892-4429 RCRUSE@CRUSEASSOCIATES.COM
 PLUMBING CRUSE & ASSOCIATES, P.A. RANDY CRUSE, PE 18909 910-892-4429 RCRUSE@CRUSEASSOCIATES.COM
 MECHANICAL CRUSE & ASSOCIATES, P.A. RANDY CRUSE, PE 18909 910-892-4429 RCRUSE@CRUSEASSOCIATES.COM
 SPRINKLER-STANDPIPE CRUSE & ASSOCIATES, P.A. RANDY CRUSE, PE 18909 910-892-4429 RCRUSE@CRUSEASSOCIATES.COM
 STRUCTURAL (FOUNDATION) CRUSE & ASSOCIATES, P.A. RANDY CRUSE, PE 18909 910-892-4429 RCRUSE@CRUSEASSOCIATES.COM
 RETAINING WALLS >5' HIGH _____
 OTHER _____
 ("OTHER" SHOULD INCLUDE FIRMS AND INDIVIDUALS SUCH AS TRUSS, PRECAST, PRE-ENGINEERED, INTERIOR DESIGNERS, ETC.)

2018 EDITION NC BUILDING CODE: NEW BUILDING ADDITION RENOVATION
 1ST TIME INTERIOR COMPLETIONS
 SHELL/CORE-CONTACT THE LEAD INSPECTION JURISDICTION FOR POSSIBLE ADDITIONAL PROCEDURES & REQUIREMENTS
 PHASED CONSTRUCTION-SHELL/CORE-CONTACT THE LEAD INSPECTION JURISDICTION FOR POSSIBLE ADDITIONAL PROCEDURES & REQUIREMENTS

2018 NC EXISTING BUILDING CODE: PRESCRIPTIVE REPAIR CHAPTER 14
 ALTERATION: LEVEL I LEVEL II LEVEL III
 HISTORIC PROPERTY CHANGE OF USE

CONSTRUCTED: (DATE) _____ CURRENT OCCUPANCY(S): (CH. 3) _____
 RENOVATED: (DATE) _____ PROPOSED OCCUPANCY(S) (CH. 3): _____
 OCCUPANCY 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
 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
 PRIMARY FIRE DISTRICT: NO YES FLOOD HAZARD AREA: NO YES
 SPECIAL INSPECTIONS REQUIRED: NO YES (CONTACT THE LOCAL INSPECTION JURISDICTION FOR ADDITIONAL PROCEDURES & REQUIREMENTS)

GROSS BUILDING AREA:

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
3RD FLOOR			
2ND FLOOR			
MEZZANINE			
1ST FLOOR	7,000		
BASEMENT			
TOTAL GROSS AREA:	7,000		

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 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

ACCESSORY OCCUPANCY CLASSIFICATION(S): _____
 INCIDENTAL USES (TABLE 509): _____

SPECIAL USES (CHAPTER 4-LIST CODE SECTIONS): _____
 SPECIAL PROVISIONS (CHAPTER 5-LIST CODE SECTIONS): _____

MIXED OCCUPANCY: NO YES SEPARATION: _____ 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.

$$\frac{\text{ACTUAL AREA OF OCCUPANCY A}}{\text{ALLOWABLE AREA OF OCCUPANCY A}} + \frac{\text{ACTUAL AREA OF OCCUPANCY B}}{\text{ALLOWABLE AREA OF OCCUPANCY B}} \leq 1$$

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 AREA	(C) AREA FOR FRONTAGE INCREASE ^{1,5}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ^{2,3}
1	BUSINESS	7,000	19,000	-	19,000

¹FRONTAGE 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)
 E. PERCENT OF FRONTAGE INCREASE $\frac{1}{2}$ = $100[F/P - 0.25] \times W/30 =$ _____ (%)

²UNLIMITED AREA APPLICABLE UNDER CONDITIONS OF SECTION 507.

³MAXIMUM BUILDING AREA = TOTAL NUMBER OF STORIES IN THE BUILDING x d (MAXIMUM 3 STORIES) (506.2).

⁴THE MAXIMUM AREA OF OPEN PARKING GARAGES MUST COMPLY WITH 406.5.4.

⁵FRONTAGE 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	FEET <u>55</u>	23'-8"	
BUILDING HEIGHT IN STORIES (TABLE 504.4) ³	STORIES <u>3</u>	STORIES 1	

- PROVIDE CODE REFERENCE IF THE "SHOWN ON PLANS" QUANTITY IS NOT BASED ON TABLE 504.3 OR 504.4.
- THE MAXIMUM HEIGHT OF AIR TRAFFIC CONTROL TOWERS MUST COMPLY WITH TABLE 412.3.1.
- THE MAXIMUM HEIGHT OF OPEN PARKING GARAGES MUST COMPLY WITH TABLE 406.5.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION REQUIRED DISTANCE (FEET)	RATING PROVIDED (W/REDUCTION)	DETAIL AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
STRUCTURAL FRAME, INCLUDING COLUMNS, GIRDERS, TRUSSES	-	0	-	-	-	-
BEARING WALLS	-	-	-	-	-	-
EXTERIOR	-	-	-	-	-	-
NORTH	0	-	-	-	-	-
EAST	0	-	-	-	-	-
WEST	0	-	-	-	-	-
SOUTH	0	-	-	-	-	-
INTERIOR	-	0	-	-	-	-
NONBEARING WALLS & PARTITIONS	-	-	-	-	-	-
EXTERIOR	-	0	-	-	-	-
NORTH	-	0	-	-	-	-
EAST	-	0	-	-	-	-
WEST	-	0	-	-	-	-
SOUTH	-	0	-	-	-	-
INTERIOR	-	0	-	-	-	-
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	-	0	-	-	-	-
FLOOR CEILING ASSEMBLY	-	-	-	-	-	-
COLUMNS SUPPORTING FLOORS	-	-	-	-	-	-
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	-	0	-	-	-	-
ROOF CEILING ASSEMBLY	-	-	-	-	-	-
COLUMNS SUPPORTING ROOF	-	-	-	-	-	-
SHAFT ENCLOSURES-EXIT	-	-	-	-	-	-
SHAFT ENCLOSURES-OTHER	-	-	-	-	-	-
CORRIDOR SEPARATION	-	0	-	-	-	-
OCCUPANCY SEPARATION	-	-	-	-	-	-
PARTY/FIRE WALL SEPARATION	-	-	-	-	-	-
SMOKE BARRIER SEPARATION	-	-	-	-	-	-
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 (TABLE 705.6)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
82'	UP; NS	NO LIMIT	42%

LIFE SAFETY SYSTEM REQUIREMENTS:

EMERGENCY LIGHTING: NO YES
 EXIT SIGNS: NO YES
 FIRE ALARM: NO YES
 SMOKE DETECTION SYSTEMS: NO YES PARTIAL _____
 CARBON MONOXIDE DETECTION: NO YES

LIFE SAFETY PLAN REQUIREMENTS:

LIFE SAFETY PLAN SHEET #, IF PROVIDED LS-1 OF 1

ACCESSIBLE DWELLING UNITS N/A (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

ACCESSIBLE PARKING-SEE SITE PLAN-SEE SITE PLAN (SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE	8' ACCESS AISLE	
	24	37	2			2

PLUMBING FIXTURE REQUIREMENTS--(NO REQUIREMENT FOR SHELL BUILDING) (TABLE 2902.1)

USE	WATERCLOSETS			URINALS	LAVATORIES			SERVICE SINK	DRINKING FOUNTAINS	
	MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX		REGULAR	ACCESSIBLE
SPACE REQUIRED	-	-	-	-	-	-	-	-	-	-
PROVIDED	-	-	-	-	-	-	-	-	-	-

add exceptions for unisex, no mop sink, and no drinking fountain

SPECIAL APPROVALS

SPECIAL APPROVAL: (LOCAL JURISDICTION, DEPARTMENT OF INSURANCE, OSC, DPI, DHHS, ICC, ETC., DESCRIBE BELOW)

DESIGN LOADS: STRUCTURAL DESIGN

SNOW (I_s) 1.0
 SEISMIC (I_e) 1.0
 LIVE LOADS: ROOF 20 PSF
 MEZZANINE N/A PSF
 FLOOR 100 PSF
 GROUND SNOW LOAD: 15 PSF

WIND LOAD: BASIC WIND SPEED 118 ULL MPH (ASCE-7)
 EXPOSURE CATEGORY B

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 0.17 %g S₁ 0.08 %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

LATERAL DESIGN CONTROL: EARTHQUAKE WIND
 SOIL BEARING CAPACITIES:
 FIELD TEST (PROVIDE COPY OF TEST REPORT) _____ PSF
 PRESUMPTIVE BEARING CAPACITY 2,000 PSF
 PILE SIZE, TYPE, AND CAPACITY _____

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 THE 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 PRESRIPTIVE
 ASHRAE 90.1 PERFORMANCE PRESRIPTIVE

OTHER: PERFORMANCE (SPECIFY SOURCE) _____

THERMAL ENVELOPE (PRESCRIPTIVE METHOD ONLY)

ROOF/CEILING ASSEMBLY (EACH ASSEMBLY):
 DESCRIPTION OF ASSEMBLY R-19 + R-11 LS WITH R-3 THERMAL BLOCKS
 U-VALUE OF TOTAL ASSEMBLY: N/A
 R-VALUE OF INSULATION: N/A
 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 R-0+R-15.0 CL WITH BRICK VENEER
 U-VALUE OF TOTAL ASSEMBLY: N/A
 R-VALUE OF INSULATION: N/A
 OPENINGS (WINDOWS OR DOORS WITH GLAZING) DOUBLE PANE, HM. FRAME
 U-VALUE OF ASSEMBLY 0.45 SOLAR HEAT GAIN COEFFICIENT: N/A
 PROJECTION FACTOR N/A DDDR R-VALUES 1.3

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

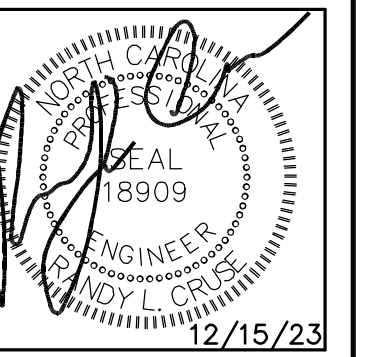
FLOOR SLAB ON GRADE
 DESCRIPTION OF ASSEMBLY SLAB-ON-GRADE
 R-VALUE OF INSULATION: R-15 TO BOTTOM OF FOOTING
 U-VALUE OF TOTAL ASSEMBLY _____
 HORIZONTAL / VERTICAL REQUIREMENT _____
 SLAB HEATED ? NO

Summary:

ENERGY CODE: 2018 NORTH CAROLINA STATE BUILDING CODE: ENERGY CONSERVATION CODE
 BUILDING CODE: 2018 NORTH CAROLINA STATE BUILDING CODE: BUILDING CODE
 MECHANICAL CODE: 2018 NORTH CAROLINA STATE BUILDING CODE: MECHANICAL CODE
 PLUMBING CODE: 2018 NORTH CAROLINA STATE BUILDING CODE: PLUMBING CODE
 ELECTRICAL CODE: 2020 NATIONAL ELECTRIC CODE
 ACCESSIBILITY CODE: ICC/ANSI 117.1-2009 AMERICAN NATIONAL STANDARD ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
 CONSTRUCTION: III-B
 OCCUPANCY: BUSINESS

SHEET INDEX

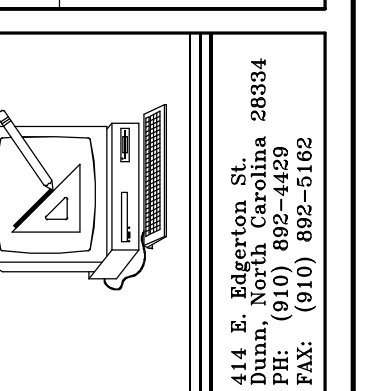
BD-1 OF 1	APPENDIX B
F-1 OF 3	FLOOR PLAN
F-2 OF 3	ELEVATIONS
F-3 OF 3	FOUNDATION PLAN
P-1 OF 1	PLUMBING SUPPLY, WASTE & VENT PIPING PLAN



12/15/23

PLANS FOR:
T&L COATS SHELL BUILDING
 BUILDING #1
 COATS, NORTH CAROLINA

REVISIONS	
NO.	



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DATE 12-15-23
 DRAWN BY BAM
 JOB NO. 23-32

SHEET NO.
BD-1 OF 1