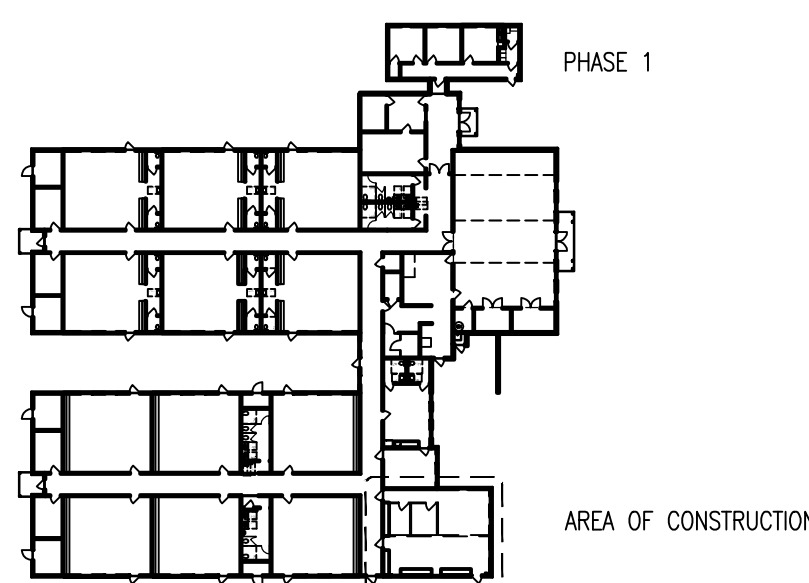


ANDERSON CREEK CHARTER SCHOOL REMODELING

RAY ROAD, ANDERSON CREEK, NC



2012 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: **ANDERSON CREEK CHARTER SCHOOL REMODELING**
 Address: **ANDERSON CREEK DRIVE** Zip Code _____
 Proposed Use: **EDUCATIONAL**
 Owner/Authorized Agent: **ANDY BARR** Phone # (919) 814 - 2833 E-Mail _____
 Owned By: City/County Private State
 Code Enforcement Jurisdiction: City County **HARNETT** State

LEAD DESIGN PROFESSIONAL: David Miller, PE

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
DAVID MILLER PE	DAVID MILLER PE	DAVID MILLER PE	15845	(919) 422-8932	DAVE@DMA-PA.COM
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DAVID MILLER PE	DAVID MILLER PE	DAVID MILLER PE	15845	(919) 422-8932	DAVE@DMA-PA.COM

2012 EDITION OF NC CODE FOR: New Construction Addition Upfit
 Alteration Repair Renovation
EXISTING: Reconstruction Alteration Repair Renovation
CONSTRUCTED: (date) 2/17 ORIGINAL USE(S) (Ch. 3): EDUCATION (E)
RENOVATED: (date) CURRENT USE(S) (Ch. 3): EDUCATION (E)
 PROPOSED USE(S) (Ch. 3): EDUCATION (E)

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
Fire District: No Yes (Primary) **Flood Hazard Area:** No Yes
Building Height: (feet) 27'9"

Gross Building Area:

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
0 th Floor			
1 st Floor	21,078		21,078
Basement			
TOTAL	21,078 SF		21,078 SF

2012 NC Administrative Code and Policies

ALLOWABLE AREA

Occupancy:

Assembly Business	<input type="checkbox"/> A-1 <input type="checkbox"/> A-2 <input type="checkbox"/> A-3 <input type="checkbox"/> A-4 <input type="checkbox"/> A-5
Educational	<input checked="" type="checkbox"/> E-1
Factory	<input type="checkbox"/> F-1 Moderate <input type="checkbox"/> F-2 Low
Hazardous	<input type="checkbox"/> H-1 Detonate <input type="checkbox"/> H-2 Deflagrate <input type="checkbox"/> H-3 Combust <input type="checkbox"/> H-4 Health <input type="checkbox"/> H-5 HPM
Institutional	<input type="checkbox"/> I-1 <input type="checkbox"/> I-2 <input type="checkbox"/> I-3 <input type="checkbox"/> I-4
I-3 Condition	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5
Mercantile	<input type="checkbox"/> M-1
Residential	<input type="checkbox"/> R-1 <input type="checkbox"/> R-2 <input type="checkbox"/> R-3 <input type="checkbox"/> R-4
Storage	<input type="checkbox"/> S-1 Moderate <input type="checkbox"/> S-2 Low <input type="checkbox"/> High-piled
Utility and Miscellaneous	<input type="checkbox"/> Parking Garage <input type="checkbox"/> Open <input type="checkbox"/> Enclosed <input type="checkbox"/> Repair Garage

Accessory Occupancies:

Assembly Business	<input type="checkbox"/> A-1 <input type="checkbox"/> A-2 <input checked="" type="checkbox"/> A-3 <input type="checkbox"/> A-4 <input type="checkbox"/> A-5
Educational	<input checked="" type="checkbox"/> E-1
Factory	<input type="checkbox"/> F-1 Moderate <input type="checkbox"/> F-2 Low
Hazardous	<input type="checkbox"/> H-1 Detonate <input type="checkbox"/> H-2 Deflagrate <input type="checkbox"/> H-3 Combust <input type="checkbox"/> H-4 Health <input type="checkbox"/> H-5 HPM
Institutional	<input type="checkbox"/> I-1 <input type="checkbox"/> I-2 <input type="checkbox"/> I-3 <input type="checkbox"/> I-4
I-3 Condition	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5
Mercantile	<input type="checkbox"/> M-1
Residential	<input type="checkbox"/> R-1 <input type="checkbox"/> R-2 <input type="checkbox"/> R-3 <input type="checkbox"/> R-4
Storage	<input type="checkbox"/> S-1 Moderate <input checked="" type="checkbox"/> S-2 Low <input type="checkbox"/> High-piled
Utility and Miscellaneous	<input type="checkbox"/> Parking Garage <input type="checkbox"/> Open <input type="checkbox"/> Enclosed <input type="checkbox"/> Repair Garage

Incidental Uses (Table 508.2.5):

- Furnace room where any piece of equipment is over 400,000 Btu per hour input
- Rooms with boilers where the largest piece of equipment is over 15 psi and 10 horsepower
- Refrigerant machine room
- Hydrogen cutoff rooms, not classified as Group H
- Incinerator rooms
- Paint shops, not classified as Group H, located in occupancies other than Group F
- Laboratories and vocational shops, not classified as Group H, located in a Group E or I-2 occupancy
- Laundry rooms over 100 square feet
- Group I-3 cells equipped with padded surfaces
- Group I-2 waste and linen collection rooms
- Waste and linen collection rooms over 100 square feet
- Stationary storage battery systems having a liquid electrolyte capacity of more than 50 gallons, or a lithium-ion capacity of 1,000 pounds used for facility standby power, emergency power or uninterrupted power supplies
- Rooms containing fire pumps
- Group I-2 storage rooms over 100 square feet
- Group I-2 commercial kitchens
- Group I-2 laundries equal to or less than 100 square feet
- Group I-2 rooms or spaces that contain fuel-fired heating equipment

Special Uses: 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427

Special Provisions: 509.2 509.3 509.4 509.5 509.6 509.7 509.8 509.9

Mixed Occupancy: No Yes Separation: _____ Hr. Exception: _____

2012 NC Administrative Code and Policies

This separation is not exempt as a Non-Separated Use (see exceptions).
 Non-Separated Use (508.3) USING MOST RESTRICTIVE EDUCATIONAL AT 18,500
 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.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

$$\frac{NA}{NA} + \frac{NA}{NA} = NA \leq 1.00$$

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 503 ² AREA	(C) AREA FOR FRONTAGE INCREASE ³	(D) AREA FOR SPRINKLER INCREASE ⁴	(E) ALLOWABLE AREA OF UNLIMITED ⁵	(F) MAXIMUM BUILDING AREA ⁶
FIRST	EDUCATIONAL	21,078	18,500	13,875	NA	32,375	32,375

- 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 = ALL (F)
 b. Total Building Perimeter = ALL (P)
 c. Ratio (F/P) = 1.0 (F/P) = ALL (P)
 d. W = Minimum width of public way = 30 (W)
 e. Percent of frontage increase $I_f = 100 [F/P - 0.25] \times W/30 = 75$ (%)
- 2 The sprinkler increase per Section 506.3 is as follows:
 a. Multi-story building $I_s = 200$ percent
 b. Single story building $I_s = 300$ percent
- 3 Unlimited area applicable under conditions of Section 507.
 4 Maximum Building Area = total number of stories in the building x E (506.4).
 5 The maximum area of open parking garages must comply with Table 406.3.5. The maximum area of air traffic control towers must comply with Table 412.1.2.

ALLOWABLE HEIGHT

Type of Construction	ALLOWABLE HEIGHT (TABLE 503)		INCREASE FOR SPRINKLERS		SHOWN ON PLANS		CODE REFERENCE
	Type	V-A	Type	V-A	Type	V-A	
Building Height in Feet	40		Feet = H + 20' = NA		16'10"		TABLE 503
Building Height in Stories	1		Stories + 1 = NA		STORIES 1		TABLE 503

2012 NC Administrative Code and Policies

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REQ'D	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	0					
Bearing Walls							
Exterior	>30	1HR	704.5: 1HR	T/UL-1	UL-356	REFER TO	
North						UL-DWSS	
East	>30	1HR	PROTECTED CONSTRUCTION	T/UL-1	UL-356		
West	>30	1HR		T/UL-1	UL-356		
South	>30	1HR		T/UL-1	UL-356		
Interior							
Nonbearing Walls and Partitions							
Exterior walls							
North							
East							
West							
South							
Interior walls and partitions	0						
Floor Construction		1-HR	711.3 1-HR MINIMUM	NA			
Including supporting beams and joists							
Roof Construction		1HR	711.3 1-HR MIN. TO QUALIFY FOR 708.4 EXC. 5	2/UL-1	UL-522		
Including supporting beams and joists							
Shaft Enclosures - Exit							
Shaft Enclosures - Other							
Corridor Separation						OUTSIDE DOORS IN EACH CLASSROOM	
Occupancy Separation							
Party/Fire Wall Separation							
Smoke Barrier Separation							
Tenant Separation							
Incidental Use Separation							

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting:	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes
Exit Signs:	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes
Fire Alarms:	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes
Smoke Detection Systems:	<input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Partial PER MECHANICAL CODE
Panic Hardware:	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: 8102

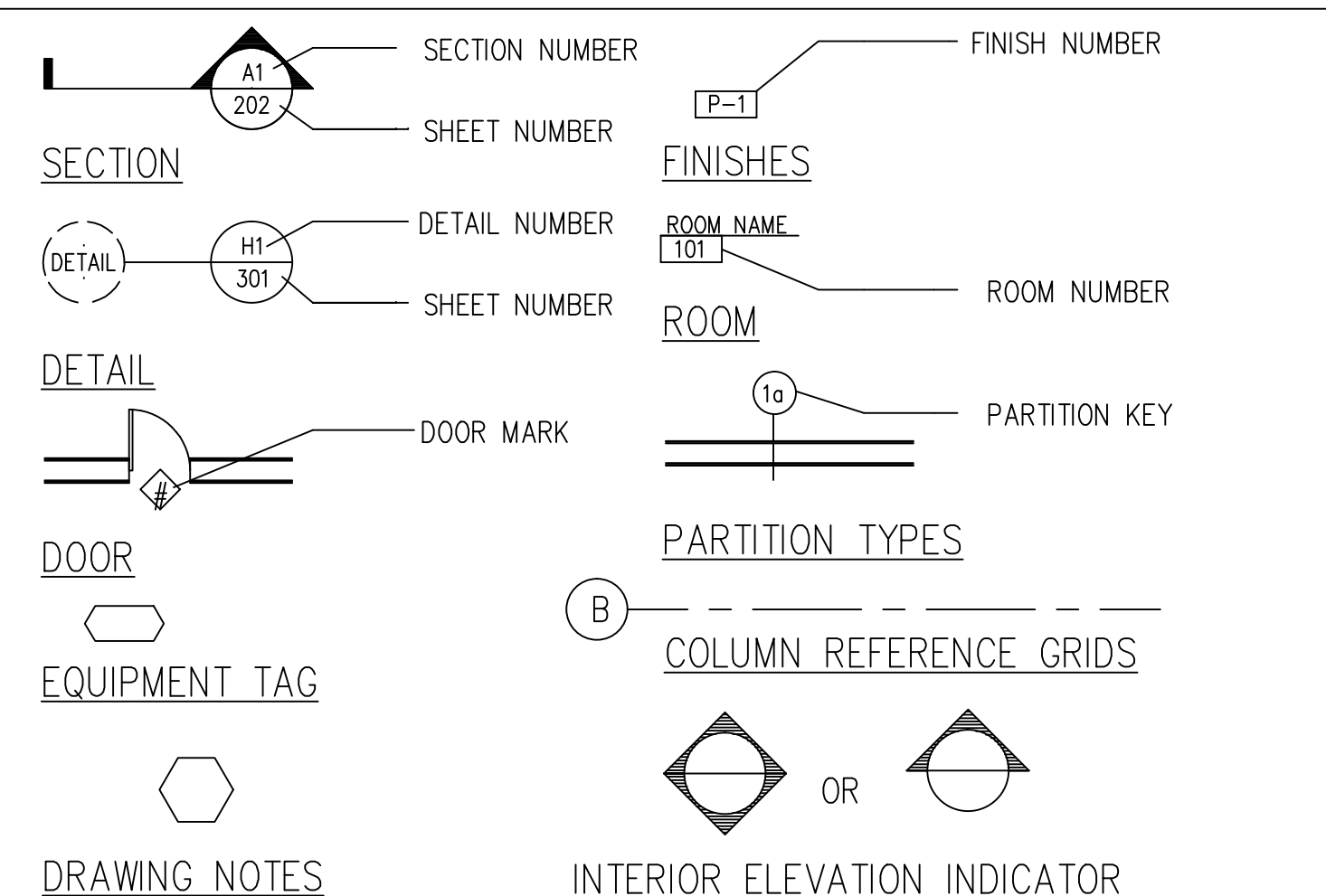
Fire and/or smoke rated wall locations (Chapter 7)
 Assumed and real property line locations

2012 NC Administrative Code and Policies

ABBREVIATION INDEX

&	AND	GA.	GAUGE	Q.T.	QUARRY TILE
@	AT	GALV.	GALVANIZED	QTY.	QUANTITY
A/C	AIR CONDITIONING	GYP. BD.	GYPSUM BOARD	R.A.	ALLIED DOMECO
A.D.	AREA DRAIN	HDWD.	HARDWOOD	RAD.	RADIUS
A.F.F.	ABOVE FINISH FLOOR	HDR.	HEADER	REF.	REFRIGERATOR
ALUM.	ALUMINUM	H.M.	HOLLOW METAL	REINF.	REINFORCING
ALT.	ALTERNATE	HORIZ.	HORIZONTAL	REV.	REVISION
APPROX.	APPROXIMATE	HGT.	HEIGHT	REQ'D	REQUIRED
BD.	BOARD	I.D.	INSIDE DIAMETER	RESIL.	RESILIENT
BLDG.	BUILDING	INSUL.	INSULATION	RM.	ROOM
BM.	BEAM	INT.	INTERIOR	R.O.	ROUGH OPENING
BSMT.	BASEMENT	JT.	JOINT	SCHED.	SCHEDULE
BTWN.	BETWEEN	KIT.	KITCHEN	SEC.	SECTION
BOT.	BOTTOM	LAM.	LAMINATE	S.F.	SQUARE FOOT
C.L.	CENTER LINE	LAV.	LAVATORY	SHT.	SHEET
C.T.	CERAMIC TILE	LT.	LIGHT	SIM.	SIMILAR
CLG.	CEILING	MAS.	MASONRY	SPEC.	SPECIFICATION
CLOS.	CLOSET	MAX.	MAXIMUM	SQ.	SQUARE
CM	CONSTRUCTION MGR.	MECH.	MECHANICAL	S.S.	STAINLESS STEEL
CMU	CONC. MASONRY UNIT	MTL.	METAL	STD.	STANDARD
COL.	COLUMN	MFR.	MANUFACTURER	STL.	STEEL
CONC.	CONCRETE	MIN.	MINIMUM	STRUCT.	STRUCTURAL
CONT.	CONTINUOUS	MISC.	MISCELLANEOUS	SUSP.	SUSPENDED
CONST.	CONSTRUCTION	M.O.	MASONRY OPENING	TEL.	TELEPHONE
DEPT.	DEPARTMENT	MTD.	MOUNTED	THK.	THICK
DTL.	DETAIL	NA	NOT APPLICABLE	THRU	THROUGH
D.F.	DRINKING FOUNTAIN	N.I.C.	NOT IN CONTRACT	T.O.P.	TOP OF PLATE
DIA.	DIAMETER	NO.	NUMBER	T.O.S.	TOP OF STEEL
DIM.	DIMENSION	NOM.	NOMINAL	T.O.SL.	TOP OF SLAB
DISP.	DISPENSER	N.T.S.	NOT TO SCALE	TRT.	TREATED
DN.	DOWN	O.A.	OVERALL	TYP.	TYPICAL
DR.	DOOR	O.C.	ON CENTER	URN	URINAL
D.S.	DOWN SPOUT	O.D.	OUTSIDE DIAMETER	V.C.B.	VINYL COMPOSITION BASE
DWG.	DRAWING	OPNG.	OPENING	V.C.T.	VINYL COMPOSITION TILE
EA.	EACH	OPT.	OPTIONAL	VERT.	VERTICAL
EL.	ELEVATION	PL.	PLATE	V.I.F.	VERIFY IN FIELD
ELEC.	ELECTRICAL	P.LAM.	PLASTIC LAMINATE	V.W.C.	VINYL WALL COVERING
EQ.	EQUAL	PLUMB.	PLUMBING	W/	WITH
EQUIP.	EQUIPMENT	PLYMD.	PLYWOOD	W.C.	WATER CLOSET
EXIST.	EXISTING	PR.	PAIR	WD.	WOOD
EXT.	EXTERIOR	PROP.	PROPERTY	W/O	WITHOUT
F.D.	FLOOR DRAIN	P.S.F.	PER SQUARE FOOT	WP.	WATERPROOFING
FIN.	FINISH	P.S.I.	PER SQUARE INCH	WT.	WEIGHT
FL.	FLOOR	PTD.	PAINTED	WWM.	WELDED WIRE MESH
F.O.	FACE OF	P.V.C.	POLY VINYL CHLORIDE		
FT.	FOOT				
FURN.	FURNITURE				

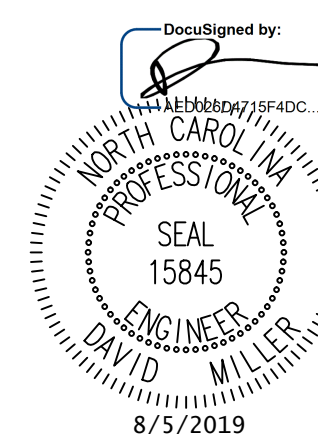
GRAPHIC SYMBOLS



Sheet List Table

Sheet Number Sheet Title

General	T100 COVER SHEET REMODELING
	T101 SCHEDULE B REMODELING
Architectural	B100 UL DESIGNS
	B101 BUILDING LAYOUT
	B102 LIFE SAFETY
	B401 ENLARGED PLANS REMODELING
MEP: MECHANICAL	M101 MECHANICAL LAYOUT
MEP: ELECTRICAL	E101 LIGHTING AND POWER
	E601 PANEL SCHEDULES
MEP: FIRE ALARM	FA101



Anderson Creek remodeling
 COVER SHEET REMODELING
 RAY ROAD, ANDERSON CREEK NC

SHEET NUMBER

T100

X of X SHEETS

REVISIONS

NO.	DATE	BY	DESCRIPTION
1	8/1/17	DCW	ADRESSED COMMENTS

PROJECT NO.: 19DDM0716
 DATE: 7/17/2019
 DRAWN BY: DCW
 CHECKED BY: DM

David Miller, PE
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 6300 CREEDMOOR ROAD, STE 170 #263
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