### (EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)

(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project:	US 401 Concrete Plant				
Address: 2520 US	6 401 N Lillington, NC			Zip Co	de 27546
Owner/Authorize	ed Agent: Crete Solution	s, LLPhone # ( 910	) 386 _ 7967	E-Mail	tms@cretellc.com
Owned By:		City/County	✓ Private	□ Sta	
Code Enforceme		City	County Harr		
CONTACT	Committee of the Commit	Caldina is to photosowa states			MIDWORD ROOM AND A SECOND ROOM OF THE SECOND ROOM O
CONTACT:		0.2470/112			
DESIGNER Architectural	FIRM Design Elements	NAME Michael Saieed AIA	LICENSE # NC-8773	TELEPHONE # ( 910 ) 509-3131	E-MAIL msaieed@designele.co
Civil				( )	
Electrical	McDowell Consulting	Gregory McDowell F	PE NC-1851B	(910)270-3747	
Fire Alarm					
Plumbing	McDowell Consulting	Steven H. Everhard,		(910)270-3747	
Mechanical	McDowell Consulting	Steven H. Everhard,	PE NC - 23933	(910)270-3747	
Sprinkler-Standp Structural	ipe				
Retaining Walls	>5' High				-
Other					
("Other" should	include firms and indiv	iduals such as truss, p	recast, pre-engine	ered, interior desi	gners, etc.)
CONSTRU- RENOVAT	☐ 1 <sup>st</sup> ☐ Sh pro ☐ Ph pos TING BUILDING CO	Alteration: CURRENT PROPOSE Current:	local inspection j nents hell/Core- Contac	t the local inspect	
BASIC BUILDI Construction Ty (check all that ap Sprinklers: Standpipes: Fire District: Special Inspection	/pe:	Flood Hazard A	☐ III ☐ We	Dry Yes jurisdiction for a	□ V-A ☑ V-B PA 13D  dditional

	An annumentation to produce the second second		
		Gross Building Area Table	
FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
3 <sup>rd</sup> Floor	N/A		
2 <sup>nd</sup> Floor			
Mezzanine			
1st Floor		1455	1455
Basement			
TOTAL		1455 text here	Type te <b>1455</b> re
		ALLOWABLE AREA	
Primary Occup	pancy Classification(s):		
Assembly	□ A-1 □ A-2 □	A-3	
Business			
Educational			
Factory	F-1 Moderate F	-2 Low	
Hazardous		H-2 Deflagrate H-3 Combust H-4 H	Health H-5 HPM
	I I-1 Condition I		and the desired of the control of th
	☐ I-2 Condition ☐ 1	$\square$ 2	
	☐ I-3 Condition ☐ 1	$\square$ 2 $\square$ 3 $\square$ 4 $\square$ 5	
	☐ I-4		
Mercantile	H		
Residential	$\square$ R-1 $\square$ R-2 $\square$	R-3 R-4	
Storage		S-2 Low High-piled	
Storage		Open Enclosed Repair Garage	
Utility and	Miscellaneous	Spen []	
		N/A	
Incidental Uses			
	Chapter 4 – List Code Sec	ctions): 406	
	ons: (Chapter 5 – List C		
Mixed Occupat			ntion:
<b>∠</b> ] Noi	n-Separated Use (508.3) -	The required type of construction for the applying the height and area limitations for occupancies to the entire building. The new type of the limitation of	or each of the applicable nost restrictive type of
		construction, so determined, shall apply t	200 - 100 -
☐ Sep	be su	below for area calculations for each story, uch that the sum of the ratios of the actual illowable floor area for each use shall not e	floor area of each use divided by
	nal Area of Occupancy A able Area of Occupancy A	+ <u>Actual Area of Occupancy B</u> Allowable Area of Occupancy B	≤ 1
		+ +	= <u></u> ≤ 1.00

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 <sup>4</sup> AREA	(C) AREA FOR FRONTAGE INCREASE <sup>1,5</sup>	(D) ALLOWABLE AREA PER STORY OR UNLIMITED <sup>2,3</sup>
1	В	1600	9000	N/A	9000 sqft

<sup>1</sup> 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 =	(F)
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b. Total Building Perimeter

c. Ratio (F/P) = \_\_\_\_\_(F/P)

d.  $W = Minimum width of public way = ____(W)$ 

e. Percent of frontage increase  $I_f = 100[F/P - 0.25] \times W/30 =$  (%)

<sup>2</sup> Unlimited area applicable under conditions of Section 507.

<sup>3</sup> Maximum Building Area = total number of stories in the building x D (maximum3 stories) (506.2).

<sup>4</sup> The maximum area of open parking garages must comply with Table 406.5.4.

<sup>5</sup> 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) <sup>2</sup>	40'	16'8"	-
Building Height in Stories (Table 504.4) <sup>3</sup>	1	1	-

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

<sup>&</sup>lt;sup>2</sup> The maximum height of air traffic control towers must comply with Table 412.3.1.

<sup>&</sup>lt;sup>3</sup> The maximum height of open parking garages must comply with Table 406.5.4.

## FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE	RATING		DETAIL#	DESIGN#	SHEET # FOR	SHEET#
	SEPARATION DISTANCE (FEET)	REQ'D	PROVIDED (W/* REDUCTION)	AND SHEET#	FOR RATED ASSEMBLY	RATED PENETRATION	FOR RATED JOINTS
Structural Frame, including columns, girders, trusses	>30'	0					
Bearing Walls							
Exterior							
North		0					
East		0					
West		0					
South		0					
Interior		0					
Nonbearing Walls and Partitions		0					
Exterior walls							
North	10' < x <30'	0 HR					
East	x > 30'	0					
West	x > 30'	0					
South	10' < x < 30'	0					
Interior walls and partitions							
Floor Construction Including supporting beams and joists		0					
Floor Ceiling Assembly		0					
Columns Supporting Floors		0					
Roof Construction, including supporting beams and joists		0					
Roof Ceiling Assembly						_	
Columns Supporting Roof		-	_				
Shaft Enclosures - Exit		-					
Shaft Enclosures - Other		32					
Corridor Separation		100					
Occupancy/Fire Barrier Separat	tion	9#1					
Party/Fire Wall Separation							
Smoke Barrier Separation		<del>.</del>					
Smoke Partition							
Tenant/Dwelling Unit/ Sleeping Unit Separation		-					
Incidental Use Separation		(#)				_	_

<sup>\*</sup> 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 (%)

1	
Exi Fire Sm	LIFE SAFETY SYSTEM REQUIREMENTS  Dergency Lighting: No Yes  District Signs: No Yes  Detection Systems: No Yes  Description Monoxide Detection: No Yes  No Yes  Partial
	LIFE SAFETY PLAN REQUIREMENTS
Life S	Safety Plan Sheet #: A/G100
	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 sign locations (1013) 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)

Unit Classification	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)

LOT OR PARKING AREA	TOTAL # OF PA	RKING SPACES	# OF ACCESSIBLE	TOTAL # ACCESSIBLE	
	REQUIRED	PROVIDED	96" SPACES	132" SPACES	PROVIDED
		10	1		1
TOTAL		10	1		

## PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE		WATER CLOSETS		URINALS	LAVATORIES			SHOWERS	DRINKING FOUNTAINS		
		MALE	MALE FEMALE	UNISEX		MALE	MALE FEMALE	UNISEX	/TUBS	REGULAR	ACCESSIBLE
SPACE	EXIST'G										
	NEW	1	1			1	1			0	0
	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:
Method of Compliance: Energy Code ☐ Performance ☐ Prescriptive  ASHRAE 90.1 ☑ Performance ☐ Prescriptive  (If "Other" specify source here)
THERMAL ENVELOPE (Prescriptive method only)
Roof/ceiling Assembly (each assembly)
Description of assembly:  U-Value of total assembly:  R-Value of insulation:  Skylights in each assembly:  U-Value of skylight:  total square footage of skylights in each assembly:
Exterior Walls (each assembly)
Description of assembly: U-Value of total assembly: R-Value of insulation: 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 unconditioned space (each assembly)
Description of assembly: U-Value of total assembly: R-Value of insulation:
Floors slab on grade
Description of assembly: U-Value of total assembly: R-Value of insulation: Horizontal/vertical requirement: slab heated:

STRUCTURAL DESIGN (PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:	1455
Importance Factors:	$\begin{array}{ccc} \text{Snow} & (I_{S}) & \underline{1.0} \\ \text{Seismic} & (I_{E}) & \underline{1.0} \end{array}$
Live Loads:	Roof 20 psf Mezzanine psf Floor 150 psf
Ground Snow Load:	
	Itimate Wind Speed 130 mph (ASCE-7)  Exposure Category C
SEISMIC DESIGN CATEGOR	RY: 🔽 A 🗎 B 🗎 C 🗎 D
Provide the following Seismic De Risk Category (Table 1) Spectral Response Acco	604.5) 🛮 I 🔲 II 🔛 IV
Site Classification (ASC Data So	
Basic structural system	☐ Bearing Wall ☐ Dual w/Special Moment Frame ☐ Dual w/Intermediate R/C or Special Steel
Analysis Procedure:	<ul><li>☐ Moment Frame</li><li>☐ Inverted Pendulum</li><li>☐ Simplified</li><li>✓ Equivalent Lateral Force</li><li>☐ Dynamic</li></ul>
	ical, Components anchored? Yes No
LATERAL DESIGN CONTRO	DL: Earthquake Wind W
SOIL BEARING CAPACITIES Field Test (provide copy Presumptive Bearing cap Pile size, type, and capac	of test report) psf pacity psf

MECHANICAL DESIGN (PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

#### MECHANICAL SUMMARY

#### MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone		
winter dry bulb:	26 F	
summer dry bulb	92 F DB/76 F WB	
Interior design condition	s	
winter dry bulb:	70 F	
summer dry bulb	75 F	
relative humidity	: 50%	
Building heating load:	18.5 MBTU/H	
Building cooling load:	3.5 TONS	
Mechanical Spacing Con	ditioning System	
Unitary		
description of		
heating efficie	ency: 9.0 HSPF MIN.	
cooling efficie	ency: 15.0 SEER MIN.	
size category	of unit:	
Boiler		
Size category. If oversized, state reason.:		N/A
Chiller		
Size category. If oversized, state reason.:		N/A
List equipment efficienci	es: N/A	

ELECTRICAL DESIGN (PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

#### ELECTRICAL SUMMARY

#### ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Energy Code ☐ Performance ASHRAE 90.1 ☐ Performance	✓ Prescriptive ☐ Prescriptive
Lighting schedule (each fixture type) SEE FIXTURE SCHEDU lamp type required in fixture number of lamps in fixture ballast type used in the fixture number of ballasts in fixture total wattage per fixture total interior wattage specified vs. allowed (whole but total exterior wattage specified vs. allowed	
Additional Efficiency Package Options (When using the 2018 NCECC; not required for ASHRAE	90.1)
<ul> <li></li></ul>	