SHEET INDEX:

COVER AND INDEX TO DRAWINGS CS

SITE PLAN SPI

BUILDING CODE SUMMARY BC

LIFE SAFETY/EGRESS PLAN LS

FOUNDATION PLAN 51

FLOOR PLAN, ELEVATIONS AND SECTION GI

MECHANICAL PLAN M-1

POWER PLAN, RISER AND NOTES E-I

E-2 LIGHTING PLAN

2017 STANDARD & COMMENTARY ICC/ANSI A117.1-2003 on ACCESSIBILITY

2018 NORTH CAROLINA STATE BUILDING CODE FOR ENERGY

2018 NORTH CAROLINA STATE BUILDING CODE FOR FIRE PREVENTION

OWNER/DEVELOPER

ROGER BLANCHARD FINAL TOUCH POWDER COATING 2016 RAY ROAD SPRING LAKE, NC 28390 910-496-0555 roger@finaltouchpowdercoating.com

PROJECT DESIGNER:

GEORGE M. ROSE, P.E. P.O. BOX 53441 FAYETTEVILLE, NC 28305 910-977-5822 grose9295@gmail.com

BUILDING DATA:

THE FACILITY IS A NEW BUILDING USED AS PAINTING/POWDER COATING FACILITY

THIS BUILDING IS NOT PROTECTED BY AN AUTOMATIC FIRE SPRINKLER SYSTEM.

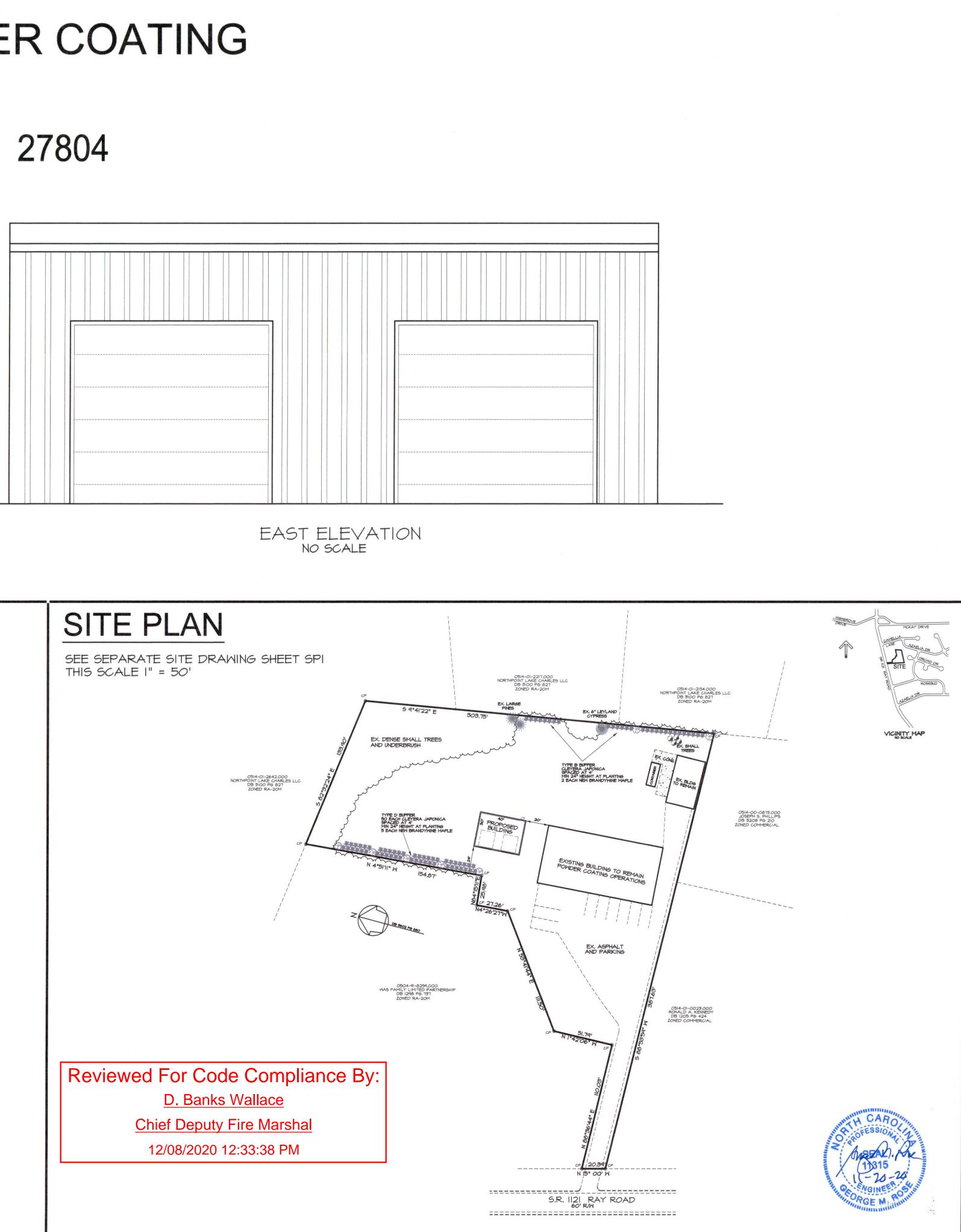
SITE MEETS ALL A.D.A. PARKING & RAMP REQUIREMENTS FOR THE BLDG.

PROJECT:

NEW BUILDING FOR FINAL TOUCH POWER COATING

2016 Ray Road Spring Lake, North Carolina 27804

PIN 0514-01-0823.000 HARNETT COUNTY



CODE REVIEW:

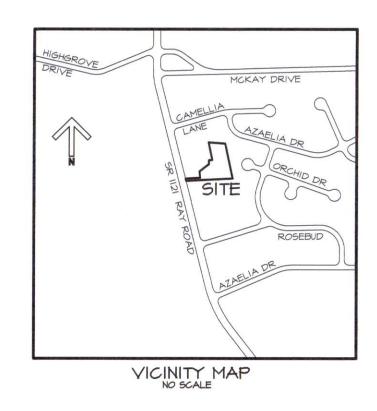
APPLICABLE CODES INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

2018 NORTH CAROLINA STATE BUILDING CODE For BUILDING

2018 NORTH CAROLINA STATE BUILDING CODE FOR MECHANICAL

2017 NATIONAL ELECTRICAL CODE

SEE BUILDING CODE SUMMARY (SHEET BC) FOR ADDITIONAL INFORMATION.

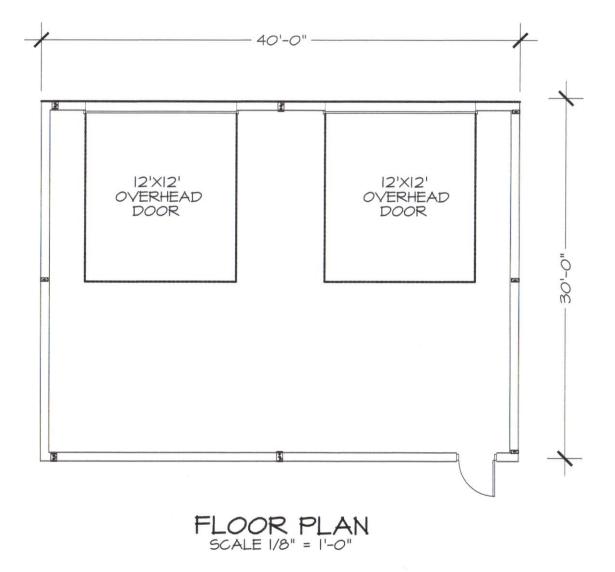


LEGEND

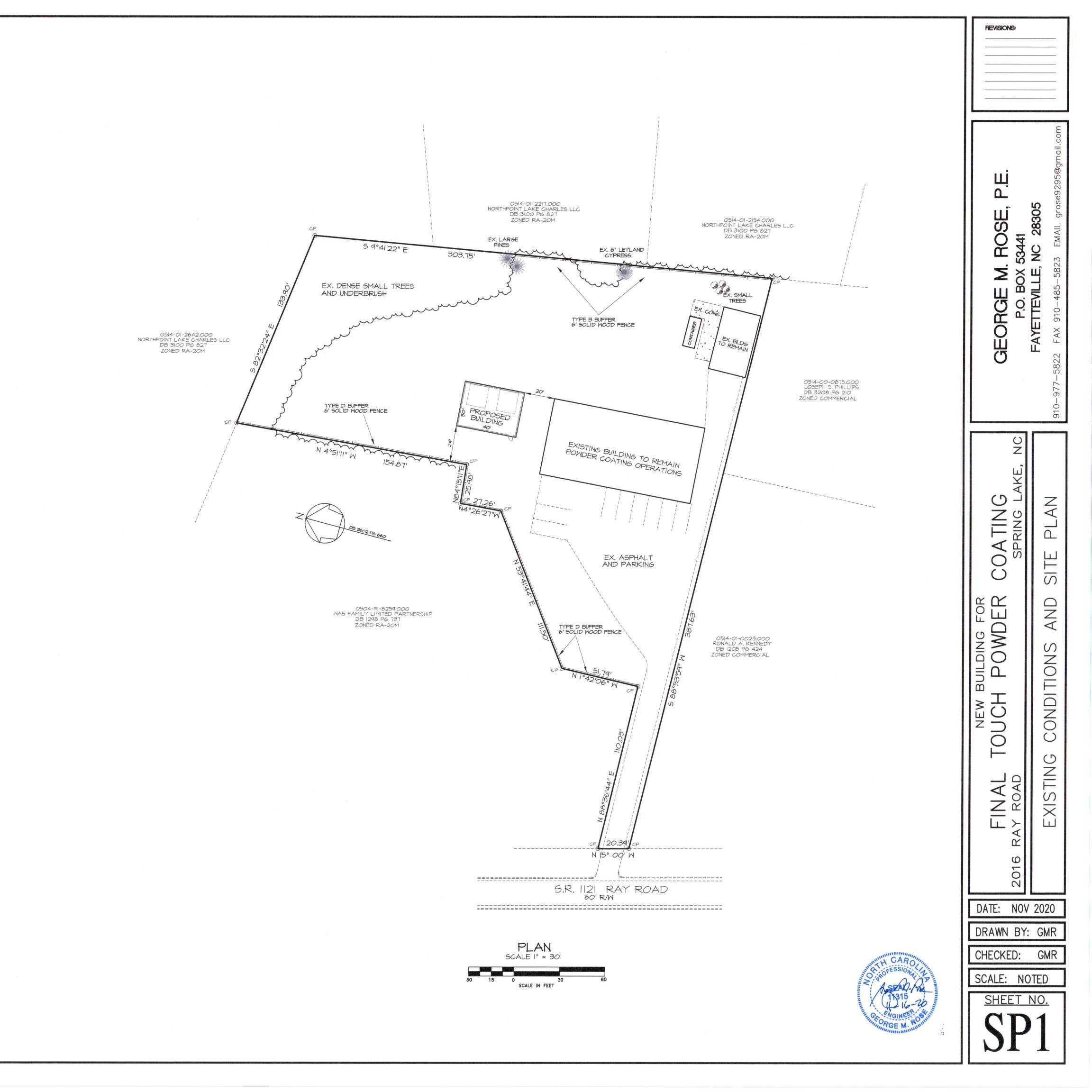
- CP COMPUTED POINT (PROPERTY CORNER PER DEED DESCR)
- NEW BRANDYWINE MAPLE
- MEW CLEYERA JAPONICA SHRUB MIN. 24" AT PLANTING

NOTES

- I. TOTAL AREA IN TRACT = 61,097 SF = 1.40 ACRES 2. OWNER/DEVELOPER: ROGER N. BLANCHARD, II 2016 RAY ROAD
- SPRING LAKE, NC 28390
- roger@finaltouchpowdercoating.com 910-496-0555
- 3. REFERENCE: DB 3602 PG 661, HARNETT COUNTY ANDERSON CREEK TOWNSHIP 4. PIN NO: 0514-01-0283.000
- 5. PROPERY IS ZONED COMMERCIAL
- 6. THE PROPOSED BUILDING IS INTENDED TO PROVIDE TWO ADDITONAL BAYS FOR POWDER COATING OPERATIONS. TWO OVERHEAD DOORS ARE LOCATED ON THE WEST-FACING WALL. HOURS OF OPERATION: MONDAY - FRIDAY, 8:00AM - 5:00PM.
- 7. IMPERVIOUS SURFACES SUMMARY: EXISTING BUILDINGS = 160 + 1046 + 5132 = 6,338 SF EXISTING ASPHALT = 11,765 SF PROPOSED BUILDING = 1,200 SF TOTAL POST-DEVELOPMENT IMPERVIOUS = 19,303 SF = 0.44 AC
- % IMPERVIOUS POST-DEVELOPMENT = 19303/61097 = 31.6% 8. TOTAL DISTURBED AREA THIS PROJECT = 20,600 SF = 0.47 AC 9. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL
- HARNETT COUNTY STANDARDS AND SPECIFICATIONS. IO. THE CONTRACTOR MUST CONTACT THE NORTH CAROLINA CALL CENTER AT 800-632-4949 PRIOR TO DIGGING IN ORDER TO LOCATE ALL EXISTING UTILITIES.



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2018 APPENDIX B BUILDING CODE SUMMARY

Proposed Use: STORAGE OF VEHICLES AND EQUIPMENT FOR POWDER COATING FACILITY

Code Compliance Summary: 2018 NC STATE BUILDING CODE, 2018 NC MECHANICAL CODE AND 2017 NATIONAL ELECTRICAL CODE

North Carolina Building Code-energy Conservation Code 2018 2017 National Electrical Code

□ Furnace room where any piece of equipment is over 400,000 Btu per hour input

Paint shops, not classified as Group H, located in occupancies other than Group F

D Rooms with boilers where the largest piece of equipment is over 15 psi and 10 horsepower

□ Laboratories and vocational shops, not classified as Group H. located in a Group E or I-2 occupancy

□ Stationary storage battery systems having a liquid electrolyte capacity of more than 50 gallons, or a lithiumion capacity of 1,000 pounds used for facility standby power, emergency power or uninterrupted power supplies

No □ Yes Class: □ I □ II □ III □ Wet □ Dry
 No □ Yes (APPENDIX D) Flood Hazard Area: No □ Yes
 (feet) <u>I7'-3"</u>
 (Sq. Ft.): <u>I,200</u> Renovated area (Sq. Ft.)_

Scope of Work: 1,200 SQUARE FEET NEW CONSTRUCTION, PRE-ENGINEERED METAL BUILDING

Name of Project: NEW BUILDING FOR FINAL TOUCH POWDER COATING

Address: 2016 RAY ROAD, SPRING LAKE, NC

Building Description: NEW BUILDING FOR STORAGE

Alternative Means of Compliance Request: NONE

BUILDING CODE: North Carolina Building Code-Building Code 2018 North Carolina Building Code-Plumbing Code 2018 North Carolina Building Code-Mechanical Code 2018

🗹 New Building

Note: Zoning Review is Required for Change of Use or Occupancy Original Use/Occupancy (Ch. 3):

BASIC BUILDING DATA: (THIS SECTION REQUIRED FOR ALL PROJECTS)

EXISTING (SQ FT) NEW (SQ FT)

Mixed Construction 🖉 No 🗆 Yes Types: _____

AREA of Project Tenant / Alteration / Renovation:

🗹 No 🗆 Partial 🗆 Yes 🗆 NFPA 13

🗆 Existing Building: 🗆 Renovation

Owned By:

Contraction of the local

Civil

DESIGNER

Architectural

Electrical

Fire Alarm

Plumbing

Mechanical Sprinkler-Standpipe

Structural :

Precast:

Building

Code Enforcement Jurisdiction:

LEAD DESIGN PROFESSIONAL:

Retaining Walls >5' High

□ New Building:

Constructed: (date)

Construction Type:

Sprinklers:

FLOOR

3rd Floor

2nd Floor

Mezzanine

Basement

AREA of Construction: ____

Primary Occupancy:

Assembly Business

Factory

Hazardous

Institutional

Mercantile

Storage

Assembly

Business

Factory

Educational

Hazardous

Institutiona

Mercantile Residential

Storage

Special Uses:

Special Provisions:

Mixed Occupancy:

SPRINKLERS

Residential

Accessory Occupancies:

Utility and Miscellaneous

Utility and Miscellaneous Incidental Uses (Table 508.2.5):

🗆 Refrigerant machine room

Rooms containing fire pumps

□ Group I-2 commercial kitchens

□ Incidental Use Separation (508.2.5)

□ Non-Separated Use (508.3)

□ Laundry rooms over 100 square feet

Incinerator rooms

Hydrogen cutoff rooms, not classified as Group H

□ Group I-3 cells equipped with padded surfaces □ Group I-2 waste and linen collection rooms

□ Group I-2 storage rooms over 100 square feet

□ Waste and linen collection rooms over 100 square feet

□ Group I-2 laundries equal to or less than 100 square feet

□ Group I-2 rooms or spaces that contain fuel-fired heating equipment

This separation is not exempt as a Non-Separated Use (see exceptions).

Educational

OCCUPANCY INFORMATION:

1st Floor

Standpipes:

Fire District:

Building Height:

(check all that apply)

Current Use/Occupancy (Ch. 3):

Proposed Use/Occupancy (Ch. 3):

Gross Building Area (Sq. Ft.):

PROJECT SUMMARY:

Owner or Authorized Agent: LAYTON McPHAIL

IDIX B BUILDING CODE SUMMARY	BUILDING C	ODE SU	MMARY	(conti	nued)			
EW BUILDING FOR FINAL TOUCH POWDER COATING Y ROAD, SPRING LAKE, NC PRAGE OF VEHICLES AND EQUIPMENT FOR POWDER COATING FACILTIY ant: LAYTON MCPHAIL Phone (910) 990-3725 E-Mail mcphailmetalstructures@yahoo.com	ALLOWABLE AREA A		INDICATED ON CH	ART BELOW	*		ION, CHANGE C)F U
City/County Private State County HARNETT State NORTH CAROLINA FOR STORAGE	STORY OCCUPANCY NO.	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 503 5 AREA	(C) % OPEN SPACE INCREASE	(D) % SPRINKLER INCREASE	OR UNLIMITED	A/E	/
200 SQUARE FEET NEW CONSTRUCTION, PRE-ENGINEERED METAL BUILDING ary: 2018 NC STATE BUILDING CODE, 2018 NC MECHANICAL CODE AND 2017 NATIONAL ELECTRICAL CODE mpliance Request: NONE	I F-I	1,200	26,000		0	26,000	0.05	
BIONAL: GEORGE M. ROSE, P.E. FIRM NAME LICENSE # TELEPHONE # E-MAIL GEORGE M. ROSE, P.E. GEORGE M. ROSE, P.E. II315 9I0-4TT-5622 grose9245egmall.com COASTAL PLAINS ENGINEERING CHRISTOPHER S. LOCKLEAR 20I93 9I0-521-72I3 coastalplainsengegmall.com WA N/A N/A GEORGE M. ROSE, P.E. II315 9I0-4TT-5622 grose9295egmall.com COASTAL PLAINS ENGINEERING MR GEORGE M. ROSE, P.E. II315 9I0-4TT-5622 grose9295egmall.com CASTAL PLAINS ENGINEERING MA BEORGE M. ROSE, P.E. II315 9I0-4TT-5622 grose9295egmall.com N/A N/A N/A BUILDINES N/A Bobdaviseinlandbuildings.com N/A N/A N/A Bobdaviseinlandbuildings.com grose9295egmall.com gh N/A N/A Bobdaviseinlandbuildings.com grose9295egmall.com N/A N/A Bobdaviseinlandbuildings.com grose9295egmall.com N/A N/A Bobdaviseinlandbuildings.com grose9295egmall.com grose9295egmall.com N/A Bobdaviseinlandbuildings.com gro	 Frontage area increa a. Perimeter which b. Total Building P c. Ratio (F/P) = d. W = Minimum v e. Percent of front 2 The sprinkler increase a. Multi-story build b. Single story build b. Single story build Group A motion picture 4 Maximum Building Area 5 The maximum area of 	width of public tage increase e per Section 5 ding I _s = 200 ilding I _s = 300 ble under condit re (507.10); Mall ea = total num of parking garag	way or open (F/P) way _= I = 100 [06.3 is as follo percent percent ions of Sections s (507.11); and ber of stories i ges must compl	space havin (P) F/P - 0.25 ws: Group B, F, H-2 aircrafi n the buildin y with 406.	g 20 feet min (W) b] x W/30_= M, S, A-4 (50 t paint hangers ng x E (506.4	07.1,507.2,507.3 (507.8).). imum area of	(%) ,507.4,507.7);	itrol
Carolina Building Code-Mechanical Code 2018 Carolina Building Code-Mechanical Code 2018 Carolina Building Code-energy Conservation Code 2018 2017 ICC A 117.1 Accessible & Usage Buildings & Facilities	T (0)	(TABL	WABLE E 503)	INCREAS SPRINKI			N ON PLANS	
rev Building □ Shell Building □ First Time Interior Completion □ Addition □ Alteration to Shell	Type of Construction Building Height in Fee Building Height in Stor	et Feet	/pe <u>II-B</u>		+ 20' = 1 =		 	-
□ Renovation □ Interior Completion □ Tenant Alteration □ Reconstruction □ Repair □ Alteration to Shell □ Change of Use Tenant Space □ Change of Occupancy				FIRE PROTE	ECTION REQU	IREMENTS		
Required for Change of Use or Occupancy (Ch. 3): (Ch. 3):	BUILDING ELEMENT		FIRE SEPARATION DISTANCE (FEET)	REQ'D	(TABLE 601) PROVIDED (w/ REDUCTION	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	D R F
(THIS SECTION REQUIRED FOR ALL PROJECTS)	including columns, girders, trusses Bearing walls Exterior			0				
□ I−B	North East			N/A N/A				-
No □ Partial □ Yes □ NFPA 13 □ NFPA 13R □ NFPA 13D No □ Yes Class: □ I □ II □ III □ Wet □ Dry No □ Yes (APPENDIX D) Flood Hazard Area: ☞ No □ Yes	West			N/A				+
et) <u>17-3"</u> Ft.): 1200 Renovated area (Sq. Ft.)	South Interior Bearing Wall	lls		N/A				+
(SQ FT) NEW (SQ FT) RENOVATED (SQ FT) SUB-TOTAL	Nonbearing walls Exter	rior						1
	North East							-
1,200	West							_
I,200 / Alteration / Renovation:	South Interior Non-Bearing	g Walls						+
DN:	Floor construction including supporting Roof construction							_
$\Box A-1 \Box A-2 \Box A-3 \Box A-4 \Box A-5 \Box$	including supporting Shafts Enclosures - E		sts					+
□ □ F-1 Moderate □ F-2 Low □ H-1 Detonate □ H-2 Deflagerate □ H-3 Combust □ H-4 Health □ H-5 HPM	Shafts Enclosures - C Corridor Separation							_
\Box $I-1$ \Box $I-2$ \Box $I-3$ \Box $I-4$ -3 Condition \Box I \Box Z	Occupancy Separation			N/A				+
□ □ R-1 □ R-2 □ R-3 □ R-4 □ S-1 Moderate	Party/Fire Wall Separa Smoke Barrier Separat			N/A				_
□ S−1 Moderate	Tenant Separation	tion						
:	Incidental Use Separat * Indicate section n		a reduction					
□ □ □ F−1 Moderate □ F−2 Low		OF WALL OPEN		TIONS	(THIS SECTION	N REQUIRED FOR	ADDITIONS, NE	EW A
□ H−1 Detonate □ H−2 Deflagerate □ H−3 Combust □ H−4 Health □ H−5 HPM □ I−1 □ I−2 □ I−3 □ I−4 -3 Condition □ 1 □ 2 □ 3 □ 4 □ 5 □ □ R−1 □ R−2 □ R−3 □ R−4	CHECK IF THE FOLLOWIN	NG ARE PRESENT	WALL LEGENI AND INDICATE B		SECTION REQUIF	RED FOR ALL PR ON ALL PLANS		
□ S−1 Moderate □ S−2 Low □ High−piled □ Parking Garage □ Open □ Enclosed □ Repair Garage eous □	□ Fire Partitions 709	and the second second	SAME STREET	e Barriers 70		ke Partitions 711		rrier
508.2.5): ere any piece of equipment is over 400,000 Btu per hour input is where the largest piece of equipment is over 15 psi and 10 horsepower ne room ooms, not classified as Group H	Emergency Exit Signs: Fire Alarm:	ection Systems:			THIS SECTION Yes Yes Yes Yes Yes	REQUIRED FOR A	LL PROJECTS)	
classified as Group H, located in occupancies other than Group F vocational shops, not classified as Group H. located in a Group E or I—2 occupancy		systems genera			Yes			
er 100 square feet quipped with padded surfaces	FLOOR, ROOM	EXIT REQUIREM	and the second second second	& ARRANG			CTION REQUIRE	ed f
and linen collection rooms collection rooms over 100 square feet battery systems having a liquid electrolyte capacity of more than 50 gallons, or a lithium—	AND/OR SPACE DESIGNATION	NUMBER (OF EXITS	ALLOWAE	TRAVEL DI	STANCE		EG
,000 pounds used for facility standby power, emergency power or uninterrupted power supplies fire pumps		REQUIRED	SHOWN ON PLANS	TRAVEL DI (TABLE 1	STANCE D	ISTANCE SHOWN ON PLANS	REQUIRE	
e rooms over 100 square feet ercial kitchens es equal to or less than 100 square feet or spaces that contain fuel—fired heating equipment	STORAGE S-2				00'	43'		
na deventario recent vertarizzati ferra e construct e construct e construct e construction e constru								
1 402 □ 403 □ 404 □ 405 □ 406 □ 407 □ 408 □ 409 □ 410 □ 411 □ 412 □ 413 1 414 □ 415 □ 416 □ 417 □ 418 □ 419 □ 420 □ 421 □ 422 □ 423 □ 424 □ 425 1 426 □ 427 □ 509.2 □ 509.3 □ 509.4 □ 509.5 □ 509.6 □ 509.7 □ 509.8 □ 509.9	¹ Corridor dead ends ² Single exits (Section ³ Common Path of Eg	1015.1; Section	1020.2)					
aration (508.2.5) not exempt as a Non-Separated Use (see exceptions).		OCCUPANT	LOAD AND EX	IT WIDTH	(THIS SECT	ION REQUIRED F	OR ALL PROJE	CTS)
e (508.3) of construction for the building shall be determined by applying the height and area limitations for each of upancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.					(a/b)	CC EGRESS	WIDTH RE	QUIR

the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the	entire
Separated Use (508.4) - See below for building area limitations calculated as required by paragraph 508.4.2.	
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.	

The required type of construction for the building shall be determined by applying the height and area limitations for each of

Separated Use Formula 508.4.2: + _____ = <u>< 1.00</u>

ALLOWABLE AREA & ALLOWABLE HEIGHT INCREASES (CALCULATIONS): (THIS SECTION FOR NEW, ADDITION, CHANGE OF USE AND INTERIOR COMPLETIONS) FRONTAGE INCREASE CALCULATIONS:

		1.1	CONTROL INOINEROE			
EXTERIOR WALL	ACTUAL LENGTH		OPEN LENGTH		WIDTH OF PUBLIC WAY OR OPEN SPACE	
North						
South						
East						
West						
Total		P		F		W
FRONTAGE INCREAS	E FORMULA					
$I_{f} = 100(F/P - 0.2)$	5)(W/30)					
INCREASE FRONTAG	E	%				

Assembly occupancies (Section 1028) SPACE DESCRIPTION

STORAGE S-2

TOTAL # OF OCCUPANTS

	1.1.1			
TOTAL	#	OF	ASSEMBLY	000

USE AND INTERIOR COMPLETIONS)

(A) DLDG AREA PER STORY (ACTUAL)	(B) TABLE 503 5 AREA	(C) % OPEN SPACE INCREASE ¹	(D) % SPRINKLER INCREASE 2	(E) ALLOWABLE FLOOR AREA OR UNLIMITED 3	RATIO OF ACTUAL/ ALLOWABLE A/E	(F) MAXIMUM BUILDING AREA ⁴	SEPARATION RATING REQUIRED
1,200	26,000		0	26,000	0.05	26,000	

(F)

I towers comply with 412.1.2.

ALLOWABLE (TABLE 503)	INCREASE FOR SPRINKLERS	SHOWN ON PLANS	CODE REFERENCE	
Туре	3	ТуреВ	TABLE 601	
Feet <u>55</u>	Feet = H + 20' =	Feet	TABLE 503	
Stories	Stories + 1 =	Stories =	TABLE 503	

	FIRE	RATING ** (TABLE 601)		DETAIL #	DESIGN #	DESIGN # FOR	DESIGN #
	SEPARATION DISTANCE (FEET)	REQ'D	PROVIDED (w/ REDUCTION	AND SHEET #	FOR RATED ASSEMBLY	RATED PENETRATION	FOR RATED JOINTS
		0					
		N/A					
		N/A					
		N/A					
		N/A					
					_		
Ills							
ims and	joists						
ims and	joists						
Enclosure							
(describ	be)						
		N/A					
		N/A					

AND CHANGE OF USE PROJECTS)

ers 710 🗆 Shaft Enclosure 708

T REQUIREM	ENTS NUMBER	& ARRANGEMENT OF	EXITS (THIS SECTION	N REQUIRED FOR ALL F	PROJECTS)	
MINIMU NUMBER O		TRAVEL	DISTANCE		NT MEANS OF (SECTION 1015.2)	
REQUIRED	SHOWN ON PLANS	ALLOWABLE TRAVEL DISTANCE (TABLE 1016.1)	ACTUAL TRAVEL DISTANCE SHOWN ON PLANS	REQUIRED DISTANCE BETWEEN DOORS	ACTUAL DISTANCE SHOWN ON PLANS	
I		200'	43'			

EXIT WIDTH (in) ED WIDTH ACTUAL WIDTH 1005.1) SHOWN ON USE GROUP AND/OR SPACE DESIGNATION SQ. FT. PER OF (SECTION 1005.1) (a/b)(c) PLANS OCCUPANT OCCUPANTS STAIR LEVEL STAIR LEVEL STAIR LEVEL 0.20 0.30 0.20 1.2 34 1,200 200 6

See Table 1004.1.1 to determine whether net or gross area is applicable ²Minimum stairway width (Section 1009.1); min. corridor width (Section 1018.2); min. door width (Section 1008.1.1) Minimum width of exit passageway (Section 1023.2) The loss of 1 means of egress shall not reduce the availability capacity to less than 50% of the total req'd (Sect 1005.1)

ASSEMBLY O	CCUPANCY INFORMATION	(THIS SECTION REQUIRED	O FOR ASSEMBLY USE	AREAS)
(b) NREA (SQ. FT.)	(c) OCCUPANT LOAD FACTOR	(d) OCCUPANT LOAD (b/c)	(e) EXIT WIDTH	(e) EXIT QUANTITY
CUPANTS				

BUILDING CODE SUMMARY (continued)

ife Safety	Plan Sheet #:	LIFE SAFET LS	Y PLAN	REQUIRE	MENTS	(THIS S	ECTION	REQUIRED	FOR ALL	PROJECTS)		
		 □ Fire and/or s □ Assumed and □ Exterior wall □ Existing struct □ Occupant load □ Exit access tt □ Common path □ Dead end len □ Clear exit wide □ Actual occupad □ A separate so purposes of a □ Location of a<	real pro opening tures wit pes for ea ravel dision of trave gths (10 ths for culated of chematic occupanc doors with doors with doors with doors eque emergence ootage o ootage o	perty line area with thin 30' of each area ach area tances (1 rel distances (1) rel distances (1	e location respect of the pr a as it r 016) ces (101 load cap exit door load cap exit door icating w tion nardware l egress magnetic th hold-of windows re area moke con	4.3 & 10 acity eac here fire (1008.1. locks an egress l open dev (1029) (902) mpartmer	nce to puilding occup 028.8) th exit rated 10) d the ocks (ices at (407	door can floor/cei amount c 1008.1.9.	calculation n accomm ling and/c of delay (1 8)	n (Table 100 odate based or roof struc 008.1.9.7)	04.1.1) d on egress	wided for
		LE DWELLING U									and the second state	
TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED		E A NTS JIRED	TYPE A UNITS PROVIDI	S	TYPE B UNITS REQUIRE		TYPE B UNITS PROVIDED	AC	TOTAL CESSIBLE U PROVIDED	
N/A												
	PLUMBING	FIXTURE REQU	IREMENT	S (THIS	SECTION	REQUIRE	D FOR	ALL PRO	JECTS)			
OCCU	PANCY		WA1 MALE	UNISEX		URINALS	MALE	LAVATORIE		SHOWERS/ TUBS	DRINKING REGULAR	FOUNTAINS
REQUIRE	D:		MALL	UNISEA				UNISEX		1005	RECORAC	ACCESSIBLE
										_		
	EQUIRED ROVIDED											
	EQUIRED ROVIDED											
	ROVIDED	TOTAL FIXTURE UNIT LOAD	SERV	ATER ICE SIZE ICHES)	V	MBER OF VATER RVICES	FIXTU	OTAL JRE UNIT OAD		NOT	ES	
TOTAL F	ROVIDED	FIXTURE UNIT	SERV	ICE SIZE	V	VATER	FIXTU	JRE UNIT		NOT	ES	

	STRUCTURAL DESIGN	LOADS	(THIS SECTION REQUIRED FOR NEW
Stru	cture conforms to Conventional Light Frame	Provisions	of 2308
1	□ Yes, continue No, Go to Line		
2	Roof Live Load =	20	PSF
3	Floor Live Load =	100	PSF
4		10	PSF
	Ground Snow Load (Pg) =	115	
5	Basic Wind Speed, 3 sec gust =	D	MPH
6	Seismic Site Class =		
7	Seismic Design Category =	В	
8	Go to Line 44		
9	Live Loads		Area
10	Floor Live Lood (indicate area) =	1200	
11	Floor Live Load (indicate area) =		
12	Floor Live Load (indicate area) =		
13	Live Load Reduction used in Design	□ Yes	MO NO
14	Roof Live Load =	20	
15		20	
	Roof Snow Load Data		
16	Flat-Roof Snow Load (Pf) =		
17	Snow Exposure Factor (Ce) =		
18	Snow Importance Factor (Is) =	1.0	
19	Thermal Factor (Ct) =		
20	Wind Design Data		
21	Basic Wind Speed, 3 sec gust =	115	
22	Wind Importance Factor (Iw) =	1.0	
23	Wind Exposure		
24	Internal Pressure Coefficient		
25	Components and Cladding Loads =		
	Wind Base Shear, Wx	14	
	Wind Base Shear, Wyx	4	
	Earthquake Design Data	–	
		1.0	
29	Seismic Importance Factor (Ie) =	1.0	
30			
31	Mapped Spectral Response Acceleration Ss		
32	Mapped Spectral Response Acceleration S1	10.2	The second state of the second states
33	Site Class	D	(Provide soils report is Site Class
34	Spectral Response Coefficient, Sds =		
35	Spectral Response Coefficient, Sd1 =		
36	Seismic Design Category =		
37	Building (Structural) System		
38	Basic Seismic Force Resisting System		
39		<u> </u>	
	Response Modification Factor, R =		
41	Analysis Procedure Used =	2	KIPS
42	Seismic Base Shear, Sx	3	KIPS
43	Seismic Base Shear, Sy	3	KIPS
44	Soils Data		
45	Presumptive Soil Bearing Pressure =	2500	PSF
	Bearing Pressure per Soils Report =		PSF
	Deep Foundation Type		
	Deep Foundation Allowable Loads		TONS, downward
49	Uplift		KIPS
	Lateral		KIPS
50	Luterun		

ACCESSIBL	E PARKING (SECTIO	N 1106) (ТН	IS SECTION FOR NEW, AI	DDITION, CHANGE	OF USE AND INTER	RIOR COMPLETIONS)	
	TOTAL # OF PARKING	G SPACES	# OF ACCESSIBLE SP	# OF ACCESSIBLE SPACES PROVIDED			
LOT OR PARKING AREA	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS 96" ACCESS AISLE AISLE		TOTAL # ACCESSIBLE PROVIDED	
EXISTING	SEE SITE PLAN						
NEW	0	1	1	1		1	
TOTAL							

ENERGY SUMMARY (THIS SECTION FOR NEW, ADDITION, CHANGE OF USE AND INTERIOR COMPLETIONS) 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.

Method of Compliance:

Prescriptive	(Energy Code)
Performance	(Energy Code)
Prescriptive	(ASHRAE 90.1)
Performance	(ASHRAE 90.1)
DRAWING SHEET) OR COMO

THERMAL ENVELOPE (SEE DRAWING SHEET _____) OR COMCHECK PRINTOUT. MECHANICAL SUMMARY (SEE DRAWING SHEET _____) (THIS SECTION REQUIRED FOR ALL PROJECTS THAT INCLUDE MECHANICAL DESIGN) ELECTRICAL SUMMARY (SEE DRAWING SHEET _____) (THIS SECTION REQUIRED FOR ALL PROJECTS THAT INCLUDE ELECTRICAL DESIGN)

BUILDING CODE SUMMARY (continued)

(THIS SECTION REQUIRED FOR ALL SHELL, ALTERATIONS TO SHELL AND INTERIOR COMPLETION PROJECTS)

□ Install building drain □ and or water distribution main with

Check each applicable line to match scope of work. Edit as necessary to provide

SHELL VARIABLE FORM (for all spaces - see plan)

🗆 Equipment sets with without power

Install complete operational system

Install water service and sewer

Trunk line installed with without outlets

clear detail of installation.

Mechanical No work

Other

Plumbing

Gas Line

No work

without branches

/

Install complete plumbing system Other D ROUGH-INS ARE INCOMPLETE, ADD'L IN-SLAB WORK IS REQUIRED. WATER SERVICE IS EXISTING (PRESENTLY INSTALLED). Sprinkler □ Install complete sprinkler system Building 🗆 Install slab 🗆 partigal complete Install demising walls □ Install interior partitioning □ partial□ complete Install Ceilings White box (additional interior completion permits are required for Certificate of Occupancy and power) Other _____ Electrical House panel □ Service laterals to meter centers/panels located on buildings Demise wall and ceilings only Conduit, duct, raceway in slab Power and lighting circuits to "J" Box Install light fixtures 🗆 Instalt Heat/Ac Elevator Generator Parking lot lighting Install complete system Other
SUITE PANEL AND SERVICE ARE EXISTING (PRESENTLY INSTALLED). Please provide full information on any alternate methods and means incorporated into the design of this project. Provide specific details and incorporate into plan submittal any supporting documents or agreement SPECIAL INSTRUCTIONS (CHAPTER 17) SPECIAL INSPECTIONS SHALL BE CONDUCTED ON ALL PROJECTS THAT FALL WITHIN BUILDING CATEGORIES AND/OR CONTAIN ELEMENTS SUBJECT TO SPECIAL INSPECTIONS AS PRESCRIBED BY REVISED SECTION 1704. To schedule a required pre-construction meeting with the City of Fayetteville, please call Doug Maples at (910) 433-1703. The main line number for the Development Services Center is (910) 433-1701. List whom will inspect the required special inspections: Fabricator of load bearing components Soil tests Concrete, caissons, piles, piers, pre-cast Post tension concrete Modular construction Steel and connections, welds, bolts, anchors Fire spray tests Smoke control Seismic, wind designs, Quality Assurance Retaining walls Masonry Wood Alternate Methods EIFS Other (describe) Other (describe) Owner or agent

SPECIAL APPROVALS:

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

s is not "D")

COUNTY OF HARNETT 2018 APPENDIX B BUILDING CODE SUMMARY for:



2016 RAY ROAD SPRING LAKE, NORTH CAROLINA 28390



OCCUPANCY INFORMATION SUMMARY

GROSS SQUARE FOOTAGE = 1,200

TYPE OF CONSTRUCTION: 11-B SPACE OCCUPANCY (INSIDE THE BUILDING) BY NET SF USING TABLE 1004.1.1

TOTAL OCCUPANT LOAD BY AREAS: STORAGE S-2 = 1200/200 = 6 PERSONS = 3 MALE, 3 FEMALE

MAXIMUM TRAVEL DISTANCE SHOWN: 45 FEET (PER 1016) MAXIMUM ALLOWABLE TRAVEL DISTANCE: 200 FEET (PER 1016.1) THE COMMON PATH OF TRAVEL IS LESS THAN 75 FEET. (PER 1014.3) THERE ARE NO DEAD END CORRIDORS OVER 20 FEET. (PER 1018.4) MIN. NO. OF EXITS REQ'D: ONE (PER TABLE 1015.1) NUMBER OF EXITS PROVIDED: THREE (OTHER THAN OVERHEAD DOORS) MAXIMUM DIAGONAL LENGTH = 49'

EGRESS DOORS DO NOT REQUIRE PANIC HARDWARE. (PER 1008.1.10) DOORS DO NOT HAVE DELAYED EGRESS LOCKS (PER 1008.1.9.7) DOORS DO NOT HAVE ELECTROMAGNETIC EGRESS LOCKS (PER 1008.1.9.8) DOORS DO NOT HAVE HOLD OPEN DEVICES. THERE ARE NO EMERGENCY ESCAPE WINDOWS (PER 1029) THERE ARE NO SLEEPING AREAS (SMOKE COMPARTMENTS) (PER 407.2) EGRESS ILLUMINATION PROVIDED AT EACH EXIT (PER 1006)

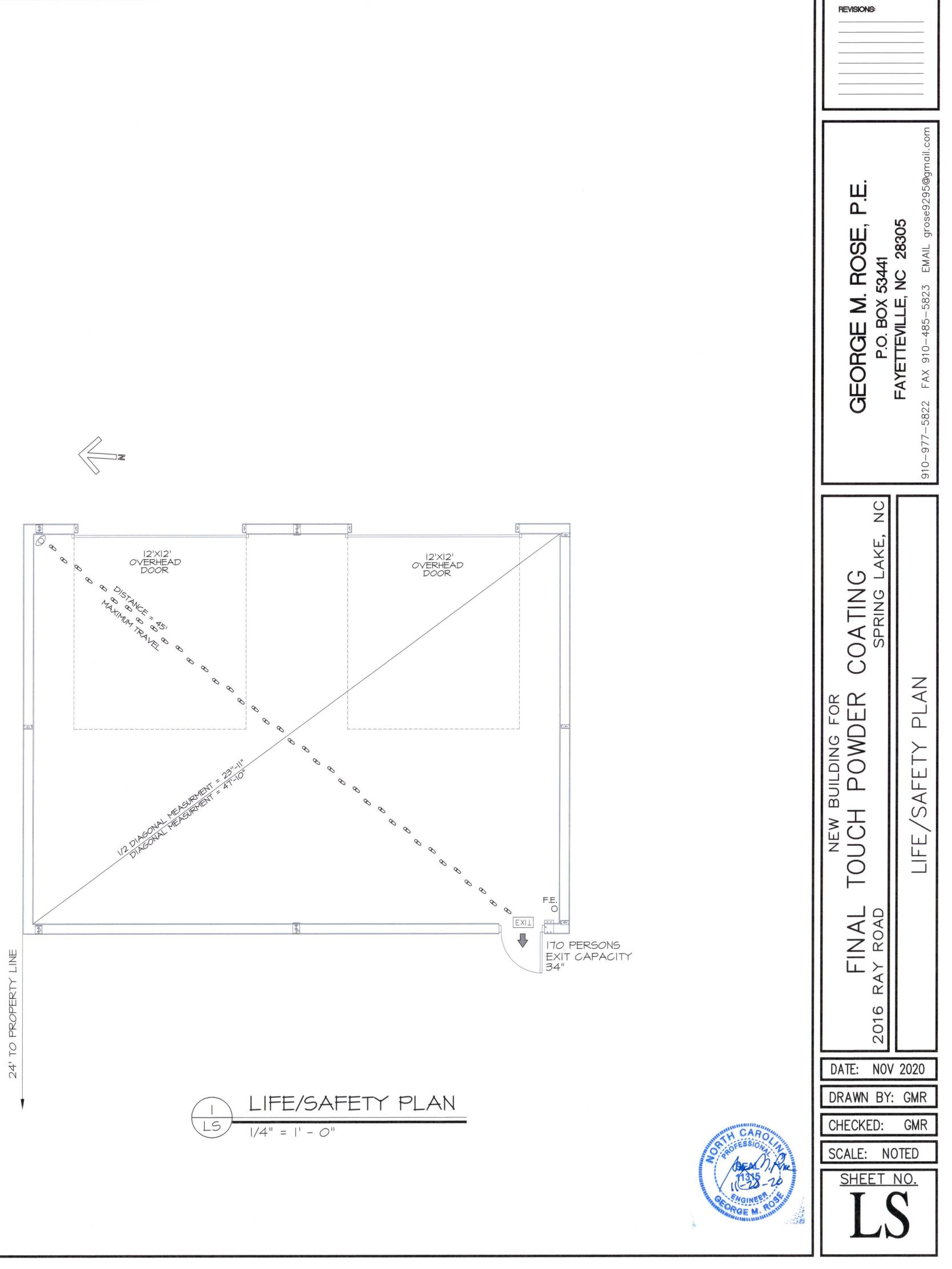
THIS SPACE IS NOT PROTECTED BY FIRE SPRINKLERS.

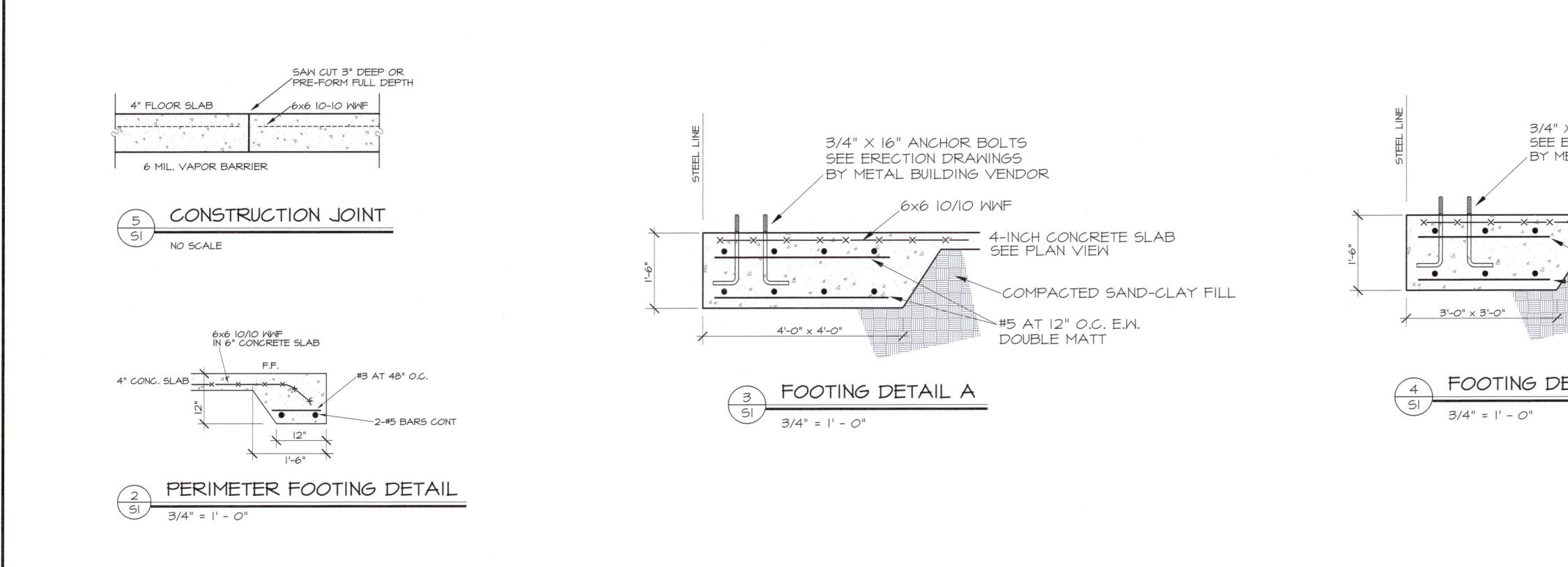
NO. OF FIRE EXTINGUISHERS PROVIDED: ONE

- PROVIDE FIRE EXTINGUISHERS UNDER THE FOLLOWING CONDITIONS:
- I. WITHIN 30' OF COMMERCIAL COOKING EQUIPMENT
- 2. IN AREAS WHERE FLAMMABLE OR COMBUSTIBLE LIQUIDS ARE STORED, USED OR DISPENSED.
- 3. WHERE REQUIRED BY SECTIONS IN TABLE 906.1, N.C. BUILDING CODE
- 4. SPECIAL-HAZARD AREAS WHERE REQUIRED BY FIRE CODE OFFICIAL.

THERE ARE NO EXTERIOR BEARING WALLS.

LEGEND	
F.E. O	ABC FIRE EXTINGUISHER SUGGESTED LOCATION
6 B B	EXIT ROUTE
36"	EXIT WIDTH
	EMERGENCY EGRESS LIGHTING
EXIT	EXIT SIGN





GENERAL CONDITIONS

THE GENERAL CONTRACTOR SHALL MAKE ADEQUATE SANITARY PROVISIONS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR JOB SAFETY AND COMPLIANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT AS IT MAY REGARD ANY PHASE OF THE WORK ON THIS PROJECT.

SOIL COMPACTION AND TESTING

THE GENERAL CONTRACTOR SHALL OBTAIN THE SERVICES OF A TESTING LABORATORY, SUCH AS S&ME OR LAW ENGINEERING FOR THE PURPOSE OF DETERMINING THE SUITABILITY OF THE SUBSURFACE CONDITIONS AND THE BEARING CAPACITIES OF ALL AREAS BELOW CONCRETE. THE SOIL AND BEARING REPORT SHALL BE SUBMITTED PRIOR TO EXCAVATING, WHERE POSSIBLE, BUT PRIOR TO PLACEMENT OF ANY REINFORCING AND CONCRETE. SOIL BEARING TO BE MIN. 2,000 PSF.

CONCRETE WORK

- I. ALL CONCRETE FOR THE PROJECT SHALL BE "READY MIX" AND SHALL COMPLY WITH ASTM C-94. ALL SECTIONS OF THE CONCRETE WORK SHALL COMPLY WITH ALL ASTM AND ACI REQUIREMENTS.
- 2. FORM WORK ALL FORMS TO BE CAREFULLY BUILT AND SECURED IN PLACE IN SUCH A MANNER AS TO HAVE SUFFICIENT STRENGTH TO CARRY THE DEAD WEIGHT OF THE CONSTRUCTION AS A LIQUID, WITHOUT DEFLECTION OR VIBRATION. FORMS TO BE BUILT TIGHT, TRUE TO POSITION AND
- DIRECTION, THOROUGHLY BRACED, WIRED AND SPIKED OR OTHERWISE FASTENED TOGETHER. 3. CONCRETE - MINIMUM OF 3,000 P.S.I. COMPRESSIVE STRENGTH AT 28 DAYS, MINIMUM OF FIVE SACKS OF CEMENT PER CUBIC YARD OF CONCRETE, MAXIMUM OF 4" SLUMP.
- 4. FINISHING IN ACCORDANCE WITH THE LATEST A.C.I. CODE, PLUMB, LEVEL, TRUE IN LINE,
- FREE OF HONEYCOMB. BUILDING SLAB SHALL HAVE A HARD STEEL TROWEL FINISH. WALKS SHALL HAVE BROOMED FINISH, AND EXPANSION JOINTS AT APPROXIMATELY 50' O.C. AND DUMMY JOINTS AS SHOWN ON THE SITE PLAN.
- 5. REMOVAL OF FORMS FORMS SHALL BE CAREFULLY REMOVED SO AS NOT TO IMPAIR THE FACE OF THE CONCRETE. IMMEDIATELY AFTER THE FORMS ARE REMOVED ALL DAMAGE OF IMPERFECT WORK SHALL BE PATCHED IN A NEAT AND WORKMANLIKE MANNER, OR IF BADLY DAMAGED, IN THE OPINION OF THE OWNER, THE WORK SHALL BE REBUILT. THE MINIMUM TIME BEFORE ANY FORMS CAN BE REMOVED IS SEVEN (7) DAYS FOR SUCH MEMBERS AS ARE SUBJECT TO BENDING STRESSES, SUCH AS SLABS.
- 6. CURING USE MEMBRANE CURING METHOD. USE MEG. RATE, SPRAY IMMEDIATELY FOLLOWING FINISHING. PROTECT FROM FREEZING WEATHER. CURE A TOTAL OF 28 DAYS USING A.C.I. METHODS.

REINFORCING STEEL

ALL REINFORCING STEEL SHALL BE DEFORMED STEEL BARS CONFORMING TO A.S.T.M. A615, GRADE 60.

ALL REINFORCING STEEL SHALL BE MANUFACTURED, DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH A.C.I. 315R, 318R AND A.C.I. SP 66.

WELDED WIRE FABRIC SHALL CONFORM TO A.S.T.M. A185, IN AS LONG A LENGTH AS IS PRACTICAL. WELDED WIRE FABRIC SHALL BE LAPPED AT LEAST ONE GRID WIDTH PLUS 2". REINFORCEMENT SHALL BE BENT COLD AND SHALL NOT BE WELDED.

SPLICES:

REINFORCEMENT IN	CONCRETE A	ND MASONRY	SHALL	HAVE LAP	LENGTHS A	AS FOLLOWS,
UNLESS OTHERWISE	SPECIFIED O	N DRAWINGS:				

UNLESS OTHERNISE STECTIED ON DRANNOS:	
BAR SIZE: IN CONCRETE: IN MA	ASONRY:

DAR SIZE:	IN CONCRETE:	IN MASONR
#3	1'-6"	2'-0"
#4	2'-0"	2'-6"
#5	2'-6"	3'-0"

PLACEMENT:

REINFORCEMENT SHALL BE ACCURATELY PLACED AND SUPPORTED BY CONCRETE, METAL, OR OTHER APPROVED CHAIRS, SPACERS OR TIES, AND SECURED AGAINST DISPLACEMENT DURING CONCRETE OR GROUT PLACEMENT.

EXCEPT WHERE OTHERWISE NOTED, REINFORCEMENT SHALL HAVE CONCRETE COVER AS

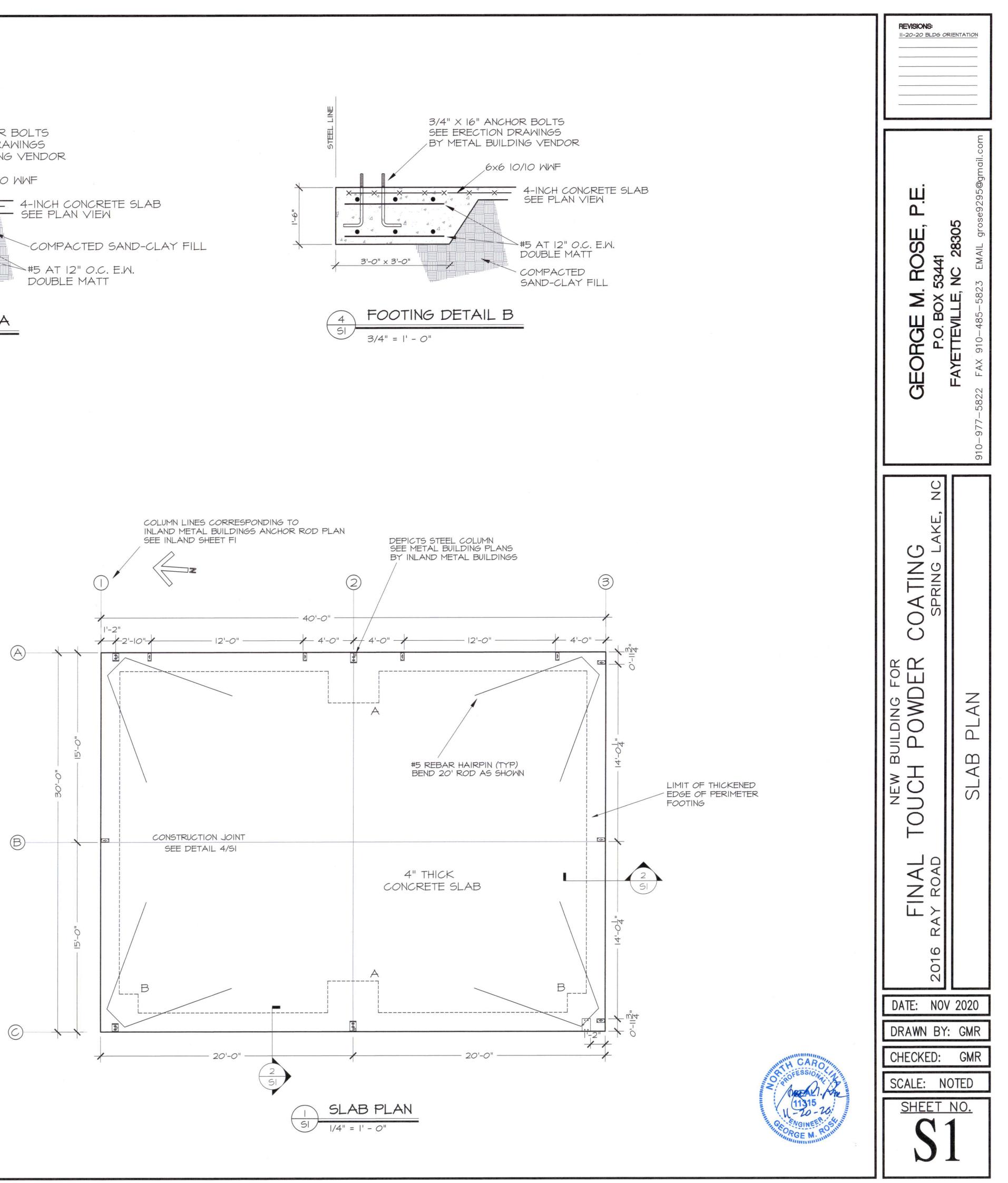
FOLLOWS: CONCRETE DEPOSITED AGAINST EARTH 3"

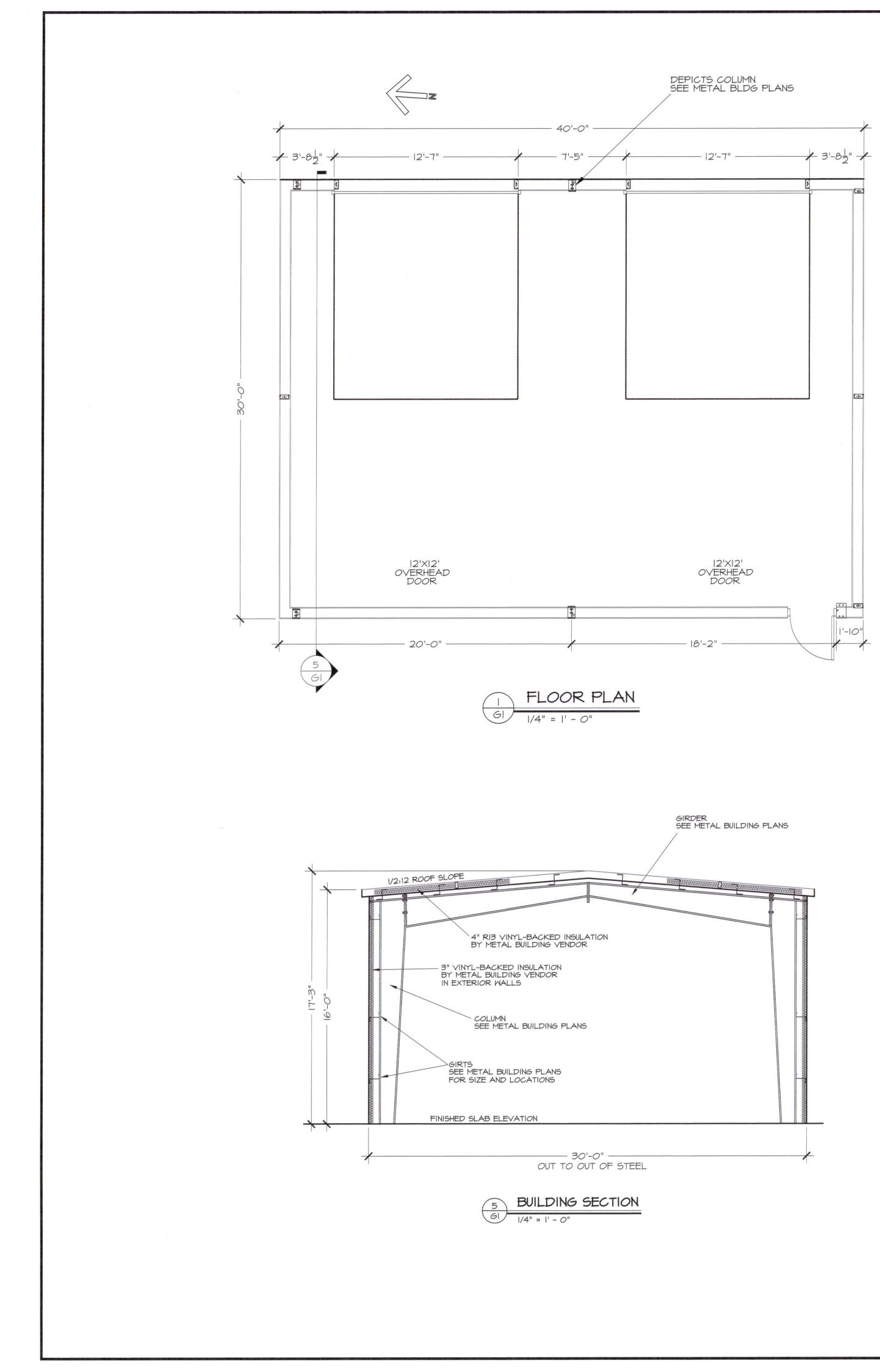
DORONETE DEI OSTIED KOKINGT EKIKIT	0
FORMED CONCRETE AGAINST EARTH	2
EXTERIOR FACES OF WALLS	1"
TO TOP OF SLABS-ON-GRADE	3/4

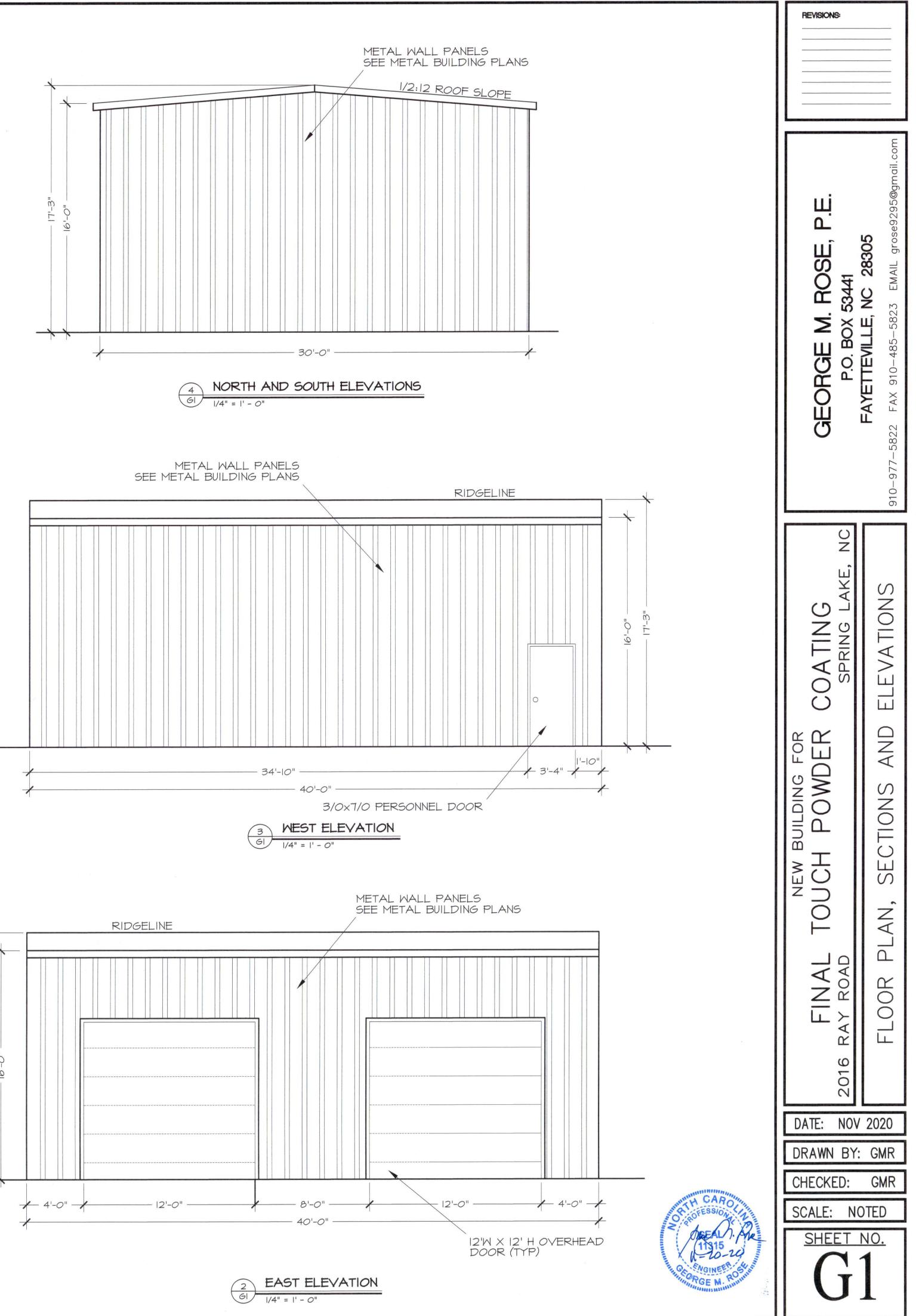
ALL SCALES, LOOSE RUST, GREASE OR DIRT SHALL BE REMOVED FROM THE REINFORCING BEFORE IT IS PLACED. PROVIDE #4 "HAIRPIN" AS SHOWN ON THE SLAB PLAN VIEW. ANCHOR BOLTS SHALL BE (A -3077) HIGH STRENGTH.

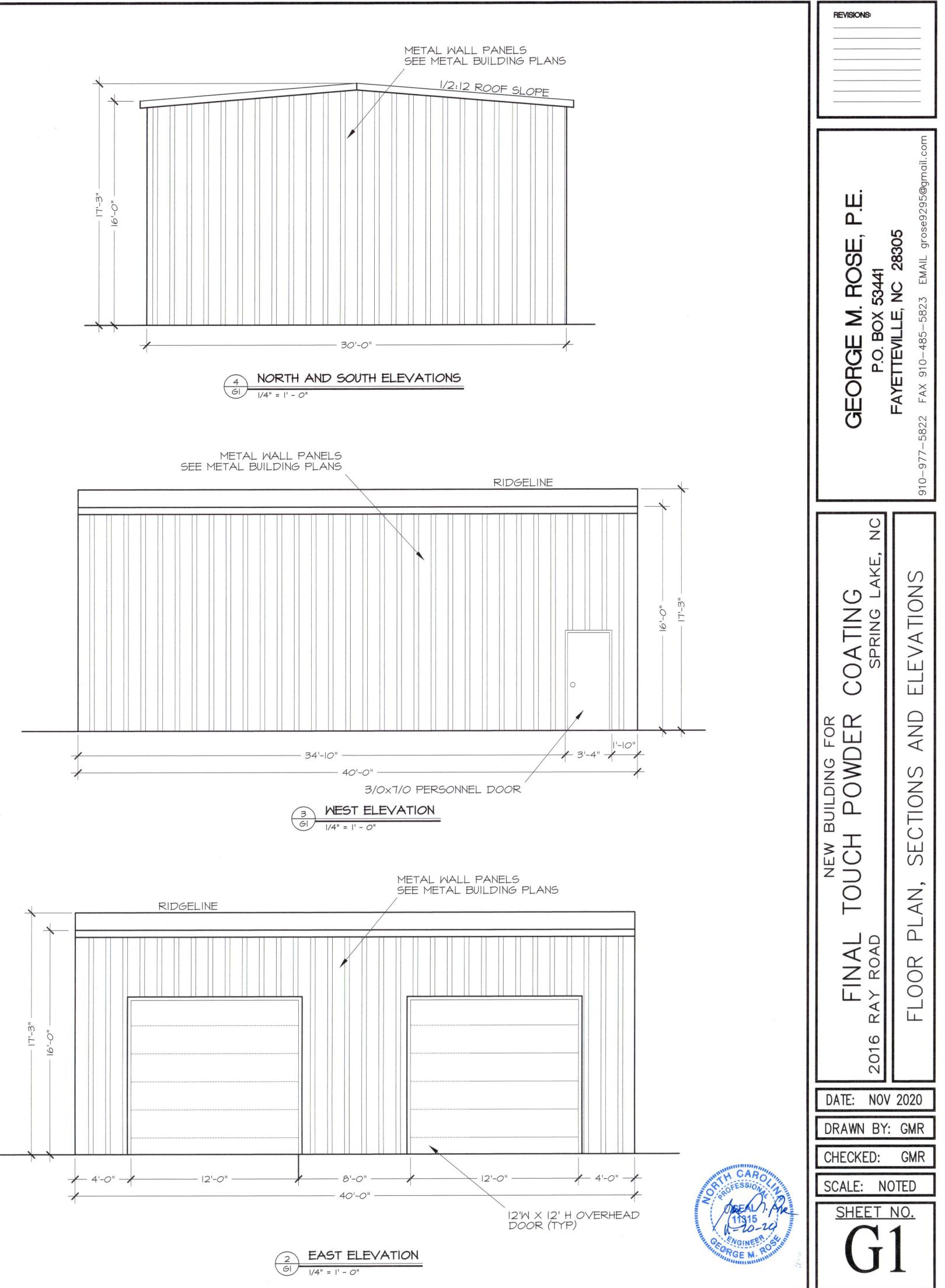
SOIL TREATMENT

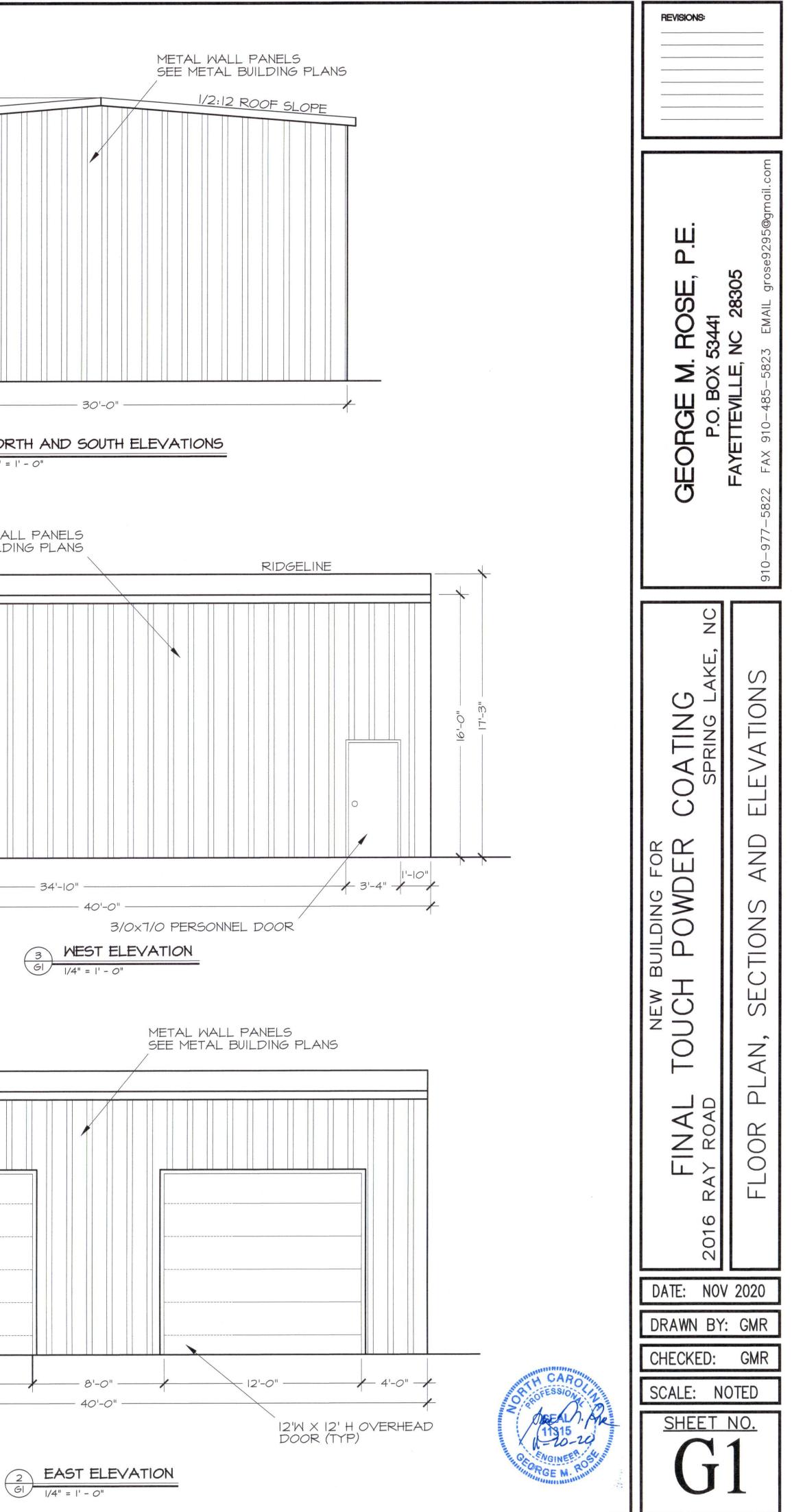
ADMINISTRATION AS ACCEPTABLE.

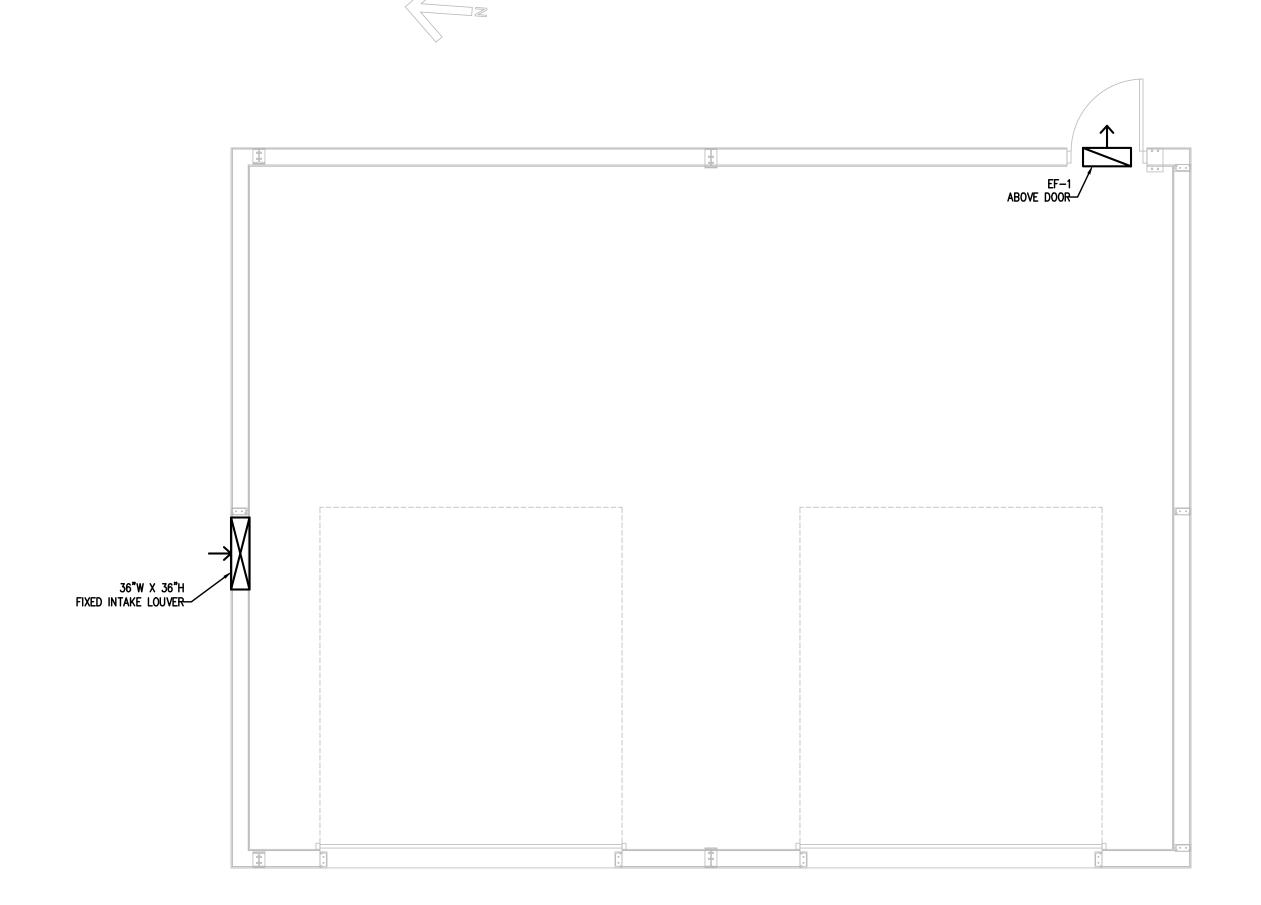












$\begin{pmatrix} 1 \end{pmatrix}$	HVAC PLAN
M1	1/4"=1'-0"

	FAN SCHEDULE										
мА	ARK	LOCATION	SERVICE	CFM	S.P.	AMPS	RPM	VOLT	PHASE	DRIVE	REMARKS
EF	-1	SIDEWALL	SHOP	4000	.125"	1/4 HP	860	120	1	DIRECT	GREENHECK S2-24-615-C4 OR EQ.



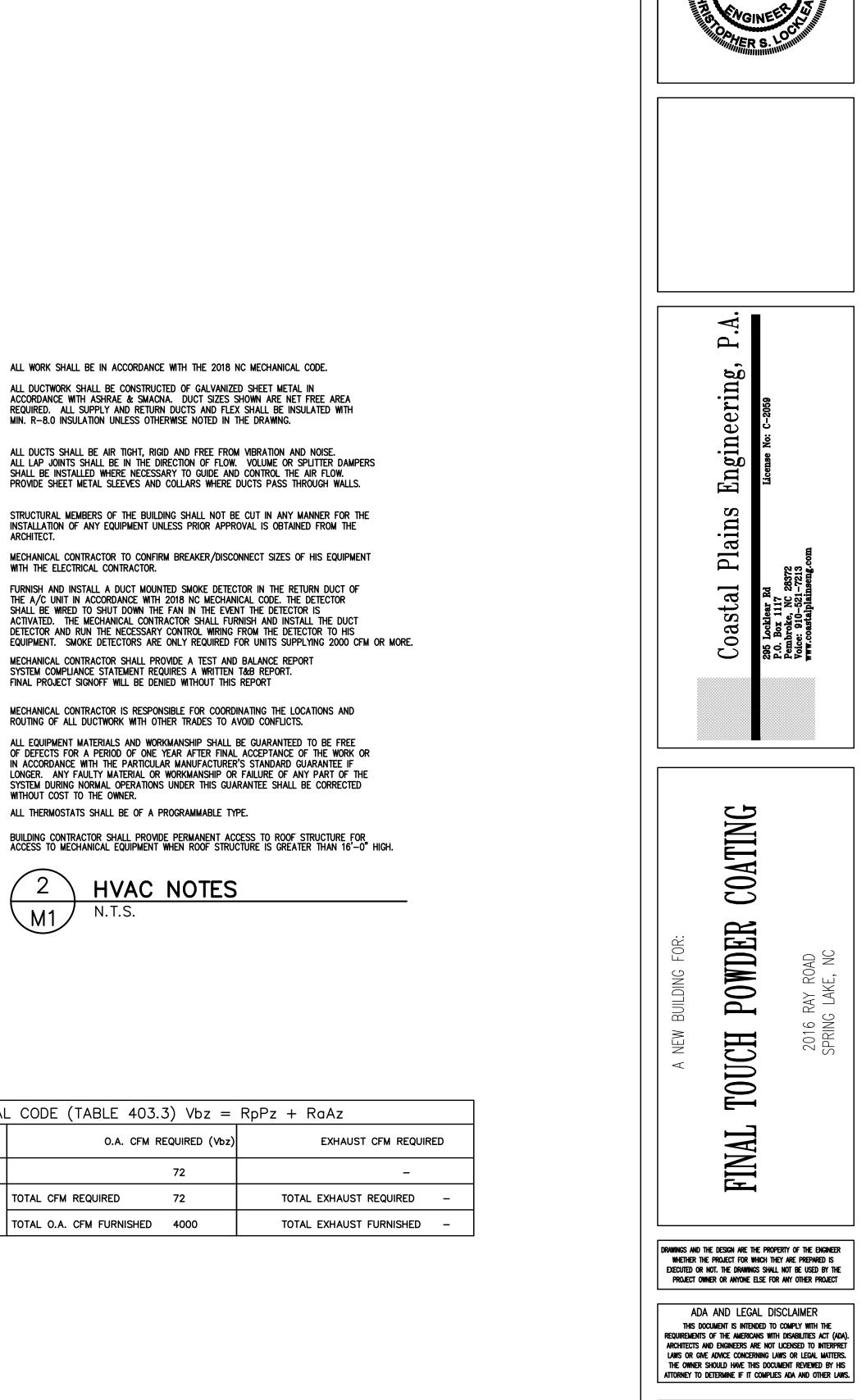
ARCHITECT. WITH THE ELECTRICAL CONTRACTOR.

WITHOUT COST TO THE OWNER.



N.T.S.

OUTSIDE AIR CALCULATION -2018 NC MECHANICAL CODE (TABLE								
	OCCUPANCY TYPE:	SF (Az)	# OF OCCUPANTS (Pz)	O.A. CFM PER PERSON (Rp)	O.A. CFM PER SF (Ra)	0.A. (
INTAKE LOUVER	SHOP	1200	-	-	0.06			
						TOTAL CFM REQUIRED		
						TOTAL O.A. CFM FURNIS		



20 134 2020 CSL W 1 뿡

Nov 19, 2020

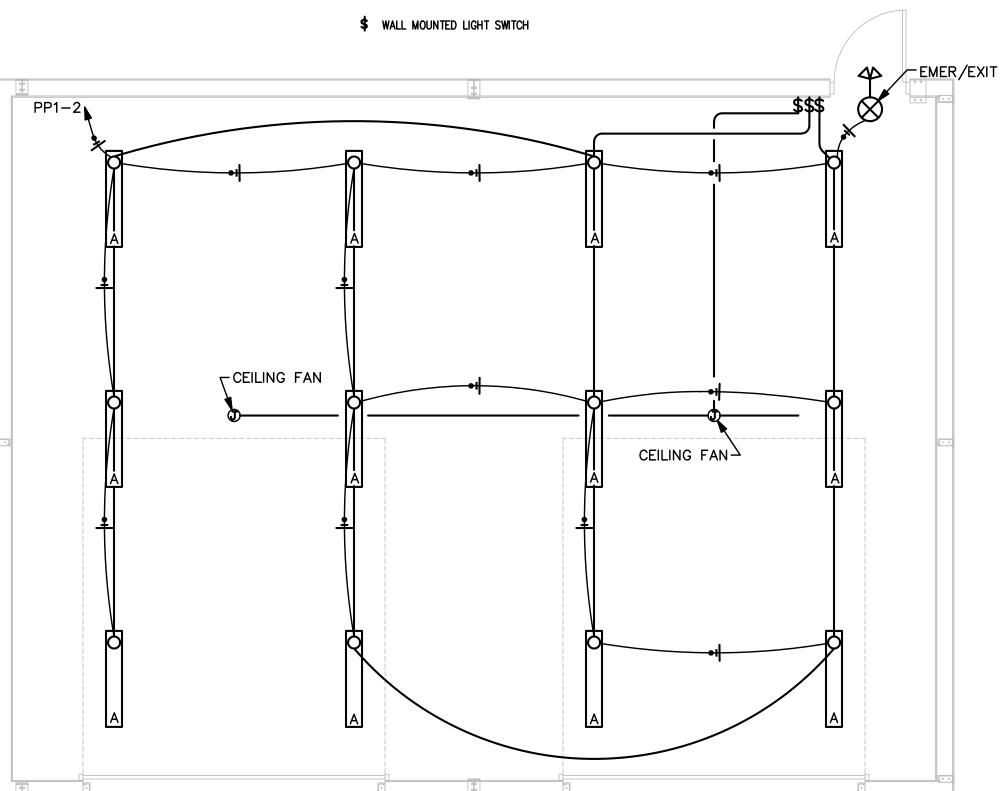
TH CARO

SEAL 20193

SHEET NO:









	UMI	NAIRE S	CHEDULE									
CA	LLOUT	SYMBOL	LAMP	DESCRIPTION	BALLAST	MOUNTING	MODEL	INPUT WATTS	VOLTS	NOTE 1	NOTE 2	NOTE 3
Α		0	(3) LED	THE BOLT 3 LAMP LED SHOP LIGHT	ELECTRONIC	PENDANT/SURFACE	PRIMELIGHT PL-BLT66WCL	66	120V 1P 2W			
EME	R/EXIT	\otimes	(2) LED	LED COMBINATION EXIT/EMERGENCY LIGHT	ELECTRONIC	WALL/CEILING	EATON/METALUX APCH7RSQ	3.4	120V 1P 2W	NICKEL CADMIUM 90 MINUTE BATTERY		METALUX SRP25DW DOUBLE LED OUTDO REMOTE HEADS WH INDICATED ON PLA

ELECTRICAL DESIGN (PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

 Method of Compliance:
 Energy Code
 Performance
 X
 Prescriptive

 ASHRAE 90.1
 Performance
 Prescriptive

Lighting schedule (each fixture type) lamp type required in fixture number of lamps in fixture ballast type used in the fixture number of ballasts in fixture

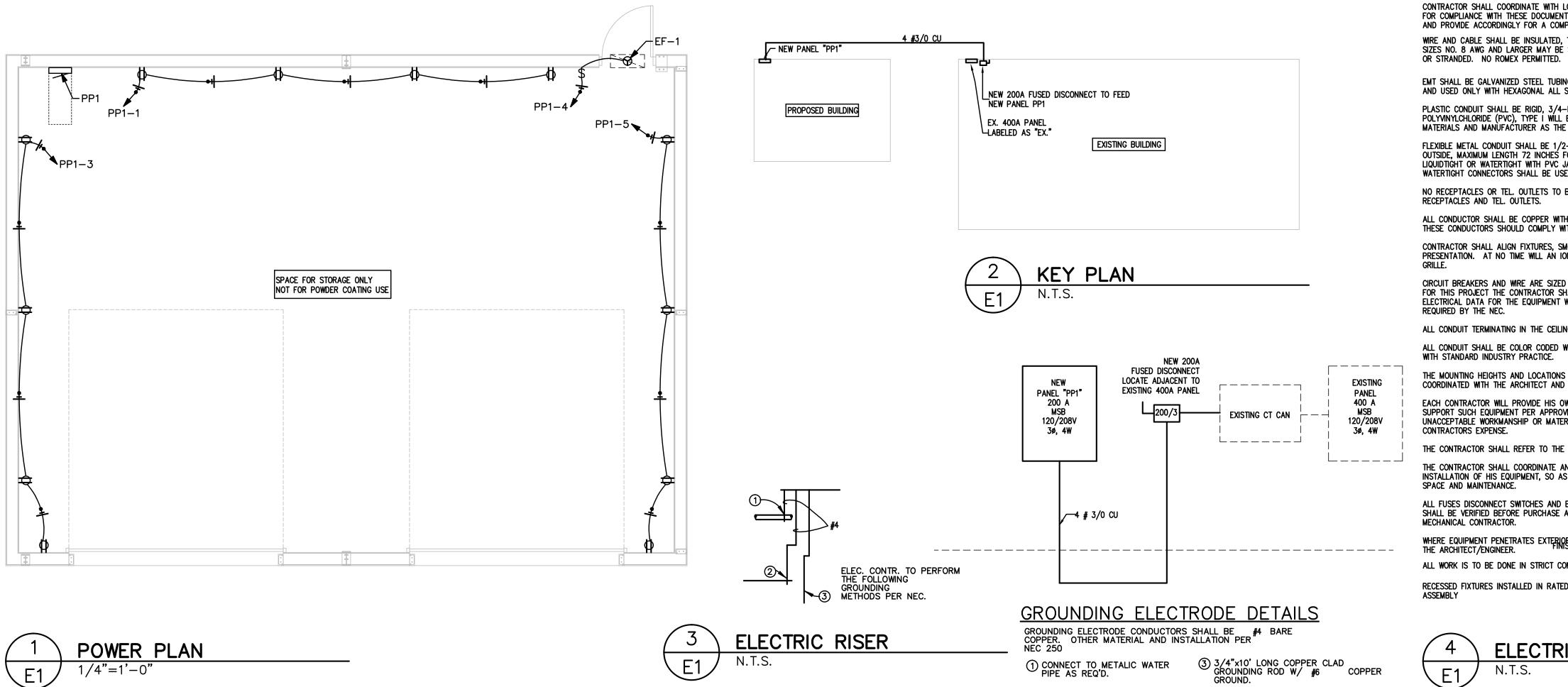
total wattage per fixture total interior wattage specified vs. allowed (whole building or space by space) 792 WATTS SPECIFIED total exterior wattage specified vs. allowed 1285 WATTS ALLOWED

Additional Efficiency Package Options (When using the 2018 NCECC; not required for ASHRAE 90.1)

C406.2 More Efficient HVAC Equipment Performance
 C406.3 Reduced Lighting Power Density
 C406.4 Enhanced Digital Lighting Controls
 C406.5 On-Site Renewable Energy
 C406.6 Dedicated Outdoor Air System
 C406.7 Reduced Energy Use in Service Water Heating

	LUMENS / LAMP
	8550
DWH TDOOR WHERE LANS	0

innn,	Nov 19, 2020							
	Coastal Plains Engineering, P.A.	F.U. BOX 1117 Pembroke, NC 28372 Voice: 910-521-7213 www.coastalplainseng.com						
A NEW BUILDING FOR:	FINAL TOUCH POWDER COATING	2016 RAY ROAD SPRING LAKE, NC						
Whether Th Executed or	The design are the prof he project for which th not. The drawings shall wher or anyone else fo	ey are prepared is L not be used by the						
This do Requirements Architects / Laws or giv The owner	ND ENGINEERS ARE NOT TE ADVICE CONCERNING LI SHOULD HAVE THIS DOCU	COMPLY WITH THE H DISABILITIES ACT (ADA). LICENSED TO INTERPRET WWS OR LEGAL MATTERS.						
project no: 2020–134 drawn by: W.I	CHECKED BY: CSL DATE: 11-19-20	REVISIONS:						
SHE	et no:	E 2						



(1)	POWER PLAN	
E1	1/4"=1'-0"	

\mathbb{E}	ζ.													
	ITING FL FROM U				VOLTS BUS AMI NEUTRAL	PS 400		4W			AIC 22,000 MAIN BKR 400 LUGS STANDARD			
СКТ	СКТ				L	OAD KV	A	СКТ	CK	Γ		L	OAD KV	A
#	BKR	CIRCUIT DES	SCRIPTION		A	В	С	#	BKF	२	CIRCUIT DESCRIPTION	А	В	С
1 3 5	20/1 20/1 20/3	EX. LIGHTS EX. WASH A EX. OVEN	REA LIGH	ITS	0.75	1	1.83	2 4 6	20/ 20/ 20/	′1	EX. OFFICE/RECEP. OUTLETS EX. PREP ROOM OUTLETS EX. WALL PACKS	1.08	0.9	1.5
7 9 11	 20/1	EX. SPARE			1.83	1.83	0	8 10 12	20/ 20/	′1	EX. WALL PACKS EX.	1.5	1.5	1.5
13 15 17	20/1 20/3	EX. POWDER		LIGHTS	1.5	1.83	1.83	14 16 18	30/ 20/ 20/	′1	EX. WATER HEATER EX. EX.	2.5	0.5	0.5
19 21	20/1	EX. GFCI OL	JTLET		1.83	0.18		20 22	70/	2	EX. AIR HANDLER	5.38	5.38	
23 25 27	20/1 20/1 20/3	EX. LIGHTS EX. EXIT LIG EX. SAND B			0.1	1.83	0.5	24 26 28	20/ 40/		EX. EXHAUST FAN EX. AIR COMPRESSOR	3.33	3.33	1.5
29 31 33	 20/3	EX.			1.83	1.83	1.83	30 32 34	 20/	2	EX. AIR DRYER	1.5	1.5	3.33
35 37 39	Í 20/1	EX.			1.83	1	1.83	36 38 40	30/	3	EX. HEAT PUMP	2	2	2
41	20/1	EX.					1	40	20/	′1	EX. SPARE			0
		-								TOT	TAL CONNECTED KVA BY PHASE	27	24.6	19.2
		С	ONN KVA	CALC K	XVA						CONN KVA CALC KV	<u> </u>		
LAR	ITING GEST MO ORS	TOR 10	85) I.3	8.56 2.5 21.3	(25	25%) 5%) 00%)		CONT	PTACL INUOU CONTIN ING	JS	2.16 2.16 2.5 3.13 US 28 28 10 10	(509 (125 (100 (100)%)	
EXIST	ING LOADS E	stimated by engin	IEER						L LOA NCED		PHASE LOAD 210 A			

② #4 COPPER GROUND TO BUILDING STEEL/FOUNDATION REBAR

ROOM MOUN FED I NOTE	ITING FL FROM U	USH TILITY			VOLTS BUS AMI NEUTRAL	PS 200	
СКТ	СКТ				L	OAD KV	A
#	BKR	CIRCUIT	DESCRIPTION		А	В	С
1 3 5 7	20/1 20/1 20/1 20/1	RECEPT RECEPT RECEPT SPACE	ACLE		0.72	0.72	0.72
9 11 13 15	20/1 20/1 20/1	SPACE SPACE SPACE SPACE			0	0	0
17 19 21	20/1 20/1 20/1 20/1	SPACE SPACE SPACE SPACE			0	0	0
23 25 27 29	20/1 20/1 20/1 20/1	SPACE SPACE SPACE SPACE			0	0	0
31 33 35	20/1 20/1 20/1 20/1	SPACE SPACE SPACE			0	0	0
37 39 41	20/1 20/1 20/1	SPACE SPACE SPACE			0	0	0
	ITING GEST MC	TOR	CONN KVA 0.795 0.696	CALC K 0.994 0.174	(12	25%) 5%)	-

CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY FOR SERVICE. A COMPLETE AND WORKING SYSTEM IS REQUIRED FOR COMPLIANCE WITH THESE DOCUMENTS. DETERMINE THE POINT OF CONNECTION TO THE UTILITY WITH THE UTILITY REPRESENTATIVE AND PROVIDE ACCORDINGLY FOR A COMPLETE WORKING SYSTEM. WIRE AND CABLE SHALL BE INSULATED, TYPE THWN OR THHN, 600 VOLTS, WITH COPPER CONDUCTORS. CONDUCTOR SIZES NO. 8 AWG AND LARGER MAY BE STRANDED. CONDUCTORS SIZES NO. 10 AWG AND SMALLER MAY BE SOLID

EMT SHALL BE GALVANIZED STEEL TUBING, 1/2—INCH MINIMUM SIZE, EQUAL TO ELECTRUNITE BRAND OR APPROVED AND USED ONLY WITH HEXAGONAL ALL STEEL COMPRESSION FITTINGS.

PLASTIC CONDUIT SHALL BE RIGID, 3/4—INCH MINIMUM NON—METALLIC, HEAVY DUTY, HIGH IMPACT, POLYVINYLCHLORIDE (PVC), TYPE I WILL BE USED FOR CONCRETE ENCASEMENT. FITTINGS SHALL BE THE SAME MATERIALS AND MANUFACTURER AS THE PLASTIC CONDUIT.

FLEXIBLE METAL CONDUIT SHALL BE 1/2- INCH MINIMUM SINGLE STRIP, STEEL, HOT DIPPED GALVANIZED INSIDE AND OUTSIDE, MAXIMUM LENGTH 72 INCHES FOR LIGHTING AND 36" FOR MOTORS. FLEXIBLE METAL CONDUIT SHALL BE LIQUIDTIGHT OR WATERTIGHT WITH PVC JACKET WHERE USED IN DAMP, WET OR OUTSIDE AREAS, AND LIQUIDTIGHT OR WATERTIGHT CONNECTORS SHALL BE USED.

NO RECEPTACLES OR TEL. OUTLETS TO BE MOUNTED BACK TO BACK, KEEP AT LEAST 2 INCHES BETWEEN RECEPTACLES AND TEL. OUTLETS.

ALL CONDUCTOR SHALL BE COPPER WITH A MINIMUM SIZE OF #12 AWG EXCEPT FOR FIRE ALARM. THESE CONDUCTORS SHOULD COMPLY WITH NFPA.

CONTRACTOR SHALL ALIGN FIXTURES, SMOKE DETECTORS, CEILING DIFFUSERS ETC. AS REQUIRED TO PROVIDE A UNIFORM PRESENTATION. AT NO TIME WILL AN IONIZATION DETECTOR BE LOCATED WITHIN 3'-0" OF A SUPPLY OR RETURN AIR

CIRCUIT BREAKERS AND WRE ARE SIZED FOR SPECIFIC EQUIPMENT. BEFORE ORDERING WRE, BREAKERS AND CONDUIT FOR THIS PROJECT THE CONTRACTOR SHALL COORDINATE WITH THE OTHER CONTRACTORS ON THE JOB AND VERIFY THE ELECTRICAL DATA FOR THE EQUIPMENT WHICH WILL ACTUALLY BE INSTALLED, RECOMPUTING WIRE AND BREAKER SIZES IF REQUIRED BY THE NEC.

ALL CONDUIT TERMINATING IN THE CEILING CAVITIES IS TO BE LABELED.

ALL CONDUIT SHALL BE COLOR CODED WITH 1/2" WIDE TAPE, 10'-0" ON CENTER IN ACCORDANCE WITH STANDARD INDUSTRY PRACTICE.

THE MOUNTING HEIGHTS AND LOCATIONS OF ALL WALL MOUNTED OUTLETS AND JUNCTION BOXES SHALL BE REVIEWED AND COORDINATED WITH THE ARCHITECT AND OWNER, PRIOR TO INSTALLATION, FOR USE WITH ACTUAL EQUIPMENT.

EACH CONTRACTOR WILL PROVIDE HIS OWN SUPPORT OF ALL DEVICES AND EQUIPMENT PROVIDED BY HIM AND SHALL SUPPORT SUCH EQUIPMENT PER APPROVED GOVERNING CODES OR PER APPROVAL OF THE ENGINEER/ARCHITECT. UNACCEPTABLE WORKMANSHIP OR MATERIALS SHALL REPLACED AT THE REQUEST OF THE ENGINEER/ARCHITECT AT THE CONTRACTORS EXPENSE.

THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS.

THE CONTRACTOR SHALL COORDINATE ANY AND ALL WORK WITH OTHER TRADES INVOLVED IN THIS PROJECT PRIOR TO THE INSTALLATION OF HIS EQUIPMENT, SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND ALLOW FOR OPTIMUM WORKING SPACE AND MAINTENANCE.

ALL FUSES DISCONNECT SWITCHES AND BREAKER SIZES SHOWN FOR MECHANICAL EQUIPMENT SHALL BE VERIFIED BEFORE PURCHASE AND INSTALLATION OF SAID EQUIPMENT WITH THE EQUIPMENT SUPPLIER AND MECHANICAL CONTRACTOR.

WHERE EQUIPMENT PENETRATES EXTERIOR WALL OR ROOF THEY SHALL BE PROPERLY SEALED WITH METHODS APPROVED BY THE ARCHITECT/ENGINEER.

ALL WORK IS TO BE DONE IN STRICT COMPLIANCE WITH THE LATEST VERSION OF THE NEC AND APPLICABLE STATE CODES

RECESSED FIXTURES INSTALLED IN RATED ASSEMBLIES SHALL BE INSTALLED WITH AN ENCLOSURE SO AS TO MAINTAIN THE RATING OF ASSEMBLY



ELECTRICAL NOTES N.T.S.

4W			AIC 22,00 MAIN BKR LUGS STA	20				
СКТ	СКТ					L	OAD KV	Ą
#	BKR	CIRCUIT	DESCRIPTI	ON		А	В	С
2 4 6	20/1 20/1 20/1	LIGHTIN(EF-1 SPACE	3			0.795	0.696	0
8 10 12 14	20/1 20/1 20/1 20/1	SPACE SPACE SPACE SPACE				0	0	0
16 18 20	20/1 20/1 20/1 20/1	SPACE SPACE SPACE				0	0	0
22 24 26	20/1 20/1 20/1	SPACE SPACE SPACE				0	0	0
28 30 32	20/1 20/1 20/1	SPACE SPACE SPACE				0	0	0
34 36 38	20/1 20/1 20/1	SPACE SPACE SPACE				0	0	0
40 42	20/1 20/1	SPACE SPACE					0	0
	TO	TAL CONN	NECTED KV	'A E	BY PHASE	1.52	1.42	0.72
			CONN KV	Ά	CALC KV	٩		
MOTO RECE	ORS PTACLES		0.696 2.16		0.696 2.16	(100 (50%	9%) %>10)	
	L LOAD NCED 3–	PHASE L	.OAD		4.02 11.2 A	_		

	A SAGINE	LOCION
	Coastal Plains Engineering, P.A.	P.O. Box 1117 Pembroke, NC 28372 Voice: 910-521-7213 www.coastalplainseng.com
A NEW BUILDING FOR:	FINAL TOUCH POWDER COATING	2016 RAY ROAD SPRING LAKE, NC
whether to executed or	The design are the pr he project for which not. The drawings shy inner or anyone else f	They are prepared is NLL not be used by t
This di Requirements Architects Laws or GM The Owner	A AND LEGAL E coument is intended t s of the americans w and engineers are no fe advice concerning should have this do determine if it compu	TO COMPLY WITH THE ITH DISABILITIES ACT (IT LICENSED TO INTERI LAWS OR LEGAL MATTI CUMENT REVIEWED BY
4	sL 1-19-20	
PROJECT NO: 2020-134 DRAWN BY: W.I	CHECKED BY: C: DATE: 1	REVISIONS:

Nov 19, 2020

TH CARO