

2018 APPENDIX B BUILDING CODE SUMMARY

Name of Project: Carlie C's IGA  
 Address: 333 N. Raleigh Street Zip Code: 27501  
 Proposed Use: Grocery Store  
 Owner or Authorized Agent: \_\_\_\_\_ Phone # \_\_\_\_\_ E-Mail: \_\_\_\_\_  
 Owned By:  City / County  Private  State  
 Code Enforcement Jurisdiction:  City  County Hornett  State

**LEAD DESIGN PROFESSIONAL:** Joe T. Smith, Jr.

DESIGNER FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Building Smith Engineering & Design	Joe T. Smith, Jr.	24916	(919)-736-2141	smithengineeringnc@hotmail.com
Civil				
Electrical				
Fire Alarm				
Plumbing Smith Engineering & Design	Joe T. Smith, Jr.	24916	(919)-736-2141	smithengineeringnc@hotmail.com
Mechanical Smith Engineering & Design	Joe T. Smith, Jr.	24916	(919)-736-2141	smithengineeringnc@hotmail.com
Sprinkler-Standpipe				
Structural Smith Engineering & Design	Joe T. Smith, Jr.	24916	(919)-736-2141	smithengineeringnc@hotmail.com
Retaining Walls >5' High				
Other				

2018 NC BUILDING CODE:  New Construction  Shell/Core  1st Time Interior Completion  
 Addition  Phased Construction-Shell Core  
 2018 NC EXISTING CODE:  Prescriptive  Alteration Level I  Historic Property  
 Repair  Alteration Level II  Change of Use  
 Chapter 14  Alteration Level III  
 CONSTRUCTED: (date) \_\_\_\_\_ CURRENT USE(s) (Ch. 3) Mercantile  
 RENOVATED: (date) \_\_\_\_\_ PROPOSED USE(s) (Ch. 3) Mercantile

**BUILDING DATA**  
 Construction Type:  I-A  II-A  III-A  IV  V-A  
 I-B  II-B  III-B  V-B  
 Sprinklers:  NO  Partial  NFPA 13  NFPA 13R  NFPA 13D  
 Standpipes:  NO  I  II  III  Wet  Dry  
 Primary Fire District:  NO  YES (Primary)  Flood Hazard Area:  NO  YES  
 Special Inspections Required:  NO  YES

**GROSS BUILDING AREA TABLE**

FLOOR	EXISTING (SQ. FT.)	NEW (SQ. FT.)	SUB-TOTAL
3rd Floor			
2nd Floor			
Mezzanine			
1st Floor (Upper Level)	34,691	720	35,411
Basement (Lower Level)			
TOTAL:	34,691	720	35,411

**ALLOWABLE AREA**

Primary Occupancy:  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 HMP  
 Institutional  I-1  I-2  I-3  I-4  
 I-3 Condition  1  2  
 I-2 Condition  1  2  
 I-1 Condition  1  2  3  4  5  
 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 Misc.   
 Accessory Occupancy Classification(s): S-1, B  
 Incidental Uses: (Table 509) \_\_\_\_\_  
 This separation is not exempt as a Nonseparated Use (see exceptions).  
 Special Uses: (Chapter 4 - List Code Sections) \_\_\_\_\_  
 Special Provisions: (Chapter 5 - List Code Sections) \_\_\_\_\_

Mixed Occupancy:  NO  YES Secondary occupancy type(s): \_\_\_\_\_ Separation: \_\_\_\_\_ Hour 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.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} = \leq 1.0$$

$$\frac{N/A}{N/A} + \frac{N/A}{N/A} = N/A \leq 1.0$$

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 AREA	(C) AREA FOR FRONTAGE INCREASE <sup>1,5</sup>	(D) ALLOWABLE AREA PER STORY OR UNLIMITED <sup>2,3</sup>
1	Mercantile	35,411	50,000	Not Used	50,000

<sup>1</sup> 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)  
 e. Percent of frontage increase =  $100 [F/P - 0.25] \times W/30 = \text{_____} (\%)$   
<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 (maximum 3 stories) (506.2).  
<sup>4</sup> The maximum area of parking garages must comply with 406.5.4. The maximum area of air traffic control towers must comply with Table 412.3.1.  
<sup>5</sup> Frontage increase is based on the un-sprinklered area value in Table 506.2.

**ALLOWABLE HEIGHT**

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	75'-0"	22'-0"	
Building Height in Stories (Table 504.4)	3	1	

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		DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
		REQUIRED	PROVIDED (W/ N/A * REDUCTION)				
Structural frame, including columns, girders, trusses		0 HOUR	0 HOUR				
Bearing walls							
Exterior							
North	0	3 HOUR	3 HOUR	EXISTING	3-HR FIREWALL		
East	>30'	0 HOUR	0 HOUR				
West	>30'	0 HOUR	0 HOUR				
South	>30'	0 HOUR	0 HOUR				
Interior		0 HOUR	0 HOUR				
Nonbearing walls and partitions							
Exterior							
North	N/A	0 HOUR	N/A				
East	N/A	0 HOUR	N/A				
West	N/A	0 HOUR	N/A				
South	N/A	0 HOUR	N/A				
Interior walls and partitions		0 HOUR	0 HOUR				
Floor Construction including supporting beams and joists		0 HOUR	0 HOUR				
Roof Construction including supporting beams and joists		0 HOUR	0 HOUR				
Roof Ceiling Assembly		N/A	N/A				
Columns Supporting Roof		0 HOUR	0 HOUR				
Shafts Enclosures - Exit		N/A	N/A				
Shafts Enclosures - Other		N/A	N/A				
Corridor Separation		N/A	N/A				
Occupancy/Fire Barrier Separation		N/A	N/A				
Party/Fire Wall Separation		N/A	N/A				
Smoke Barrier Separation		N/A	N/A				
Smoke Partition		N/A	N/A				
Tenant/Dwelling Unit/ Sleeping Unit Separation		N/A	N/A				
Incidental Use Separation		N/A	N/A				

**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 (%)
>30'	Unprotected, sprinklered	No Limit	<50%

**LIFE SAFETY SYSTEM REQUIREMENTS**

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

**LIFE SAFETY PLAN REQUIREMENTS**

Life Safety Plan Sheet #: LF-1

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

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 # PARKING SPACES		# ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE SPACES PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	132" ACCESS AISLE	8' ACCESS AISLE	
Existing						
TOTAL						

**PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)**

USE	WATER CLOSETS			URINALS	LAVATORIES			SERVICE SINK	DRINKING FOUNTAINS	
	MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX		REGULAR	ACCESSIBLE
EXISTING	2	2	0	0	1	1	0	1	1	1
NEW	0	0	0	0	0	0	0	0	0	0
REQUIRED	1	1	0	0	1	1	0	1	1	1

\*\*Note: Owner shall provide written data that substantiates that the occupant load for this building will at all times not exceed 100 occupants if required.

**SPECIAL APPROVALS**

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

**DESIGN LOADS:**

Importance Factors:	Wind (I <sub>w</sub> )	1.0
Snow (I <sub>s</sub> )	1.0	
Seismic (I <sub>e</sub> )	1.0	
Live Loads:	Roof	20 PSF
	Mezzanine	N/A
	Floor	125 PSF
Ground Snow Load:		15 PSF
Wind Loads:	Basic Wind Speed	117 MPH (ASCE 7-10)
	Exposure Category	B

**SEISMIC CATEGORY**  A  B  C  D

Provide the following Seismic Design Parameters:  
 Occupancy Category (Table 1604.5)  I  II  III  IV  
 Spectral Response Acceleration S<sub>s</sub> 17.2 %g S<sub>1</sub> 8.3 %g S<sub>0.1</sub> 0.9 %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 \_\_\_\_\_ psf  
 Pile Size, Type, and Capacity \_\_\_\_\_

**SPECIAL INSPECTIONS REQUIRED:**  Yes  No

**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:  (If checked, the remainder of this section is not applicable.)  
 Exempt Building:  Provide code or statutory reference: \_\_\_\_\_  
 Climate Zone:  3  4  5  
 Method of Compliance:  
 Energy Code:  Performance  Prescriptive  Trade-Off  
 ASHRAE 90.1:  Performance  Prescriptive  Trade-Off  
 Other:  Performance (specify source) \_\_\_\_\_

**THERMAL ENVELOPE:**

**Roof/Ceiling Assembly (each assembly)**  
 Description of Assembly: Bar joists, metal deck, R-30 Insulation Board, TPO Membrane roofing  
 U-value of Total Assembly: 0.033  
 R-value of Insulation: 30  
 Skylights in each assembly: N/A  
 U-Value of skylight: \_\_\_\_\_  
 Total square footage of skylights in each assembly: \_\_\_\_\_

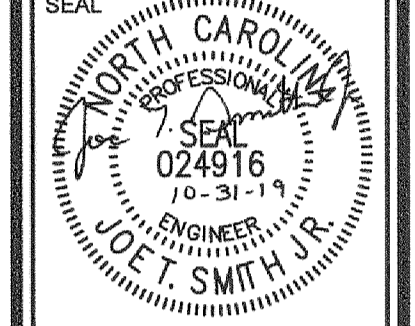
**Exterior Walls (each assembly)**  
 Description of Assembly: 8" CMU with foam insulation  
 U-value of Total Assembly: 0.07  
 R-value of Insulation: 14.2  
 Openings (windows or doors with glazing): N/A  
 U-Value of assembly: \_\_\_\_\_  
 Solar heat gain coefficient: \_\_\_\_\_  
 Projection factor: \_\_\_\_\_  
 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: 6" Concrete Slab  
 U-value of Total Assembly: 0.07  
 R-value of Insulation: Foam fill block extends 48" below floor slab  
 Horizontal/vertical requirement: \_\_\_\_\_  
 Slab heated: \_\_\_\_\_

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G & G BUILDERS, INC.  
 1603 S. HOLLYBROOK RD.  
 WENDELL, NC 27591

REVISIONS

REV.	DATE	DESCRIPTION

Carlie C's IGA  
 333 N. Raleigh Street  
 Angier, NC 27501

DATE: 31 October 2019  
 DRAWN BY: JS  
 SCALE: N.T.S.

COVER

LEGEND	
SYMBOL	DESCRIPTION
	COMMON PATH OF EXIT EGRESS TRAVEL
	ROUTE OF TOTAL EXIT ACCESS TRAVEL DISTANCE
	REQUIRED OCCUPANT CAPACITY OF DOOR
	ACTUAL OCCUPANT CAPACITY OF DOOR

COMMON	136'
TOTAL	191'-8"

NOTE: ALL ASSUMED AND REAL PROPERTY LINES ARE > 30'

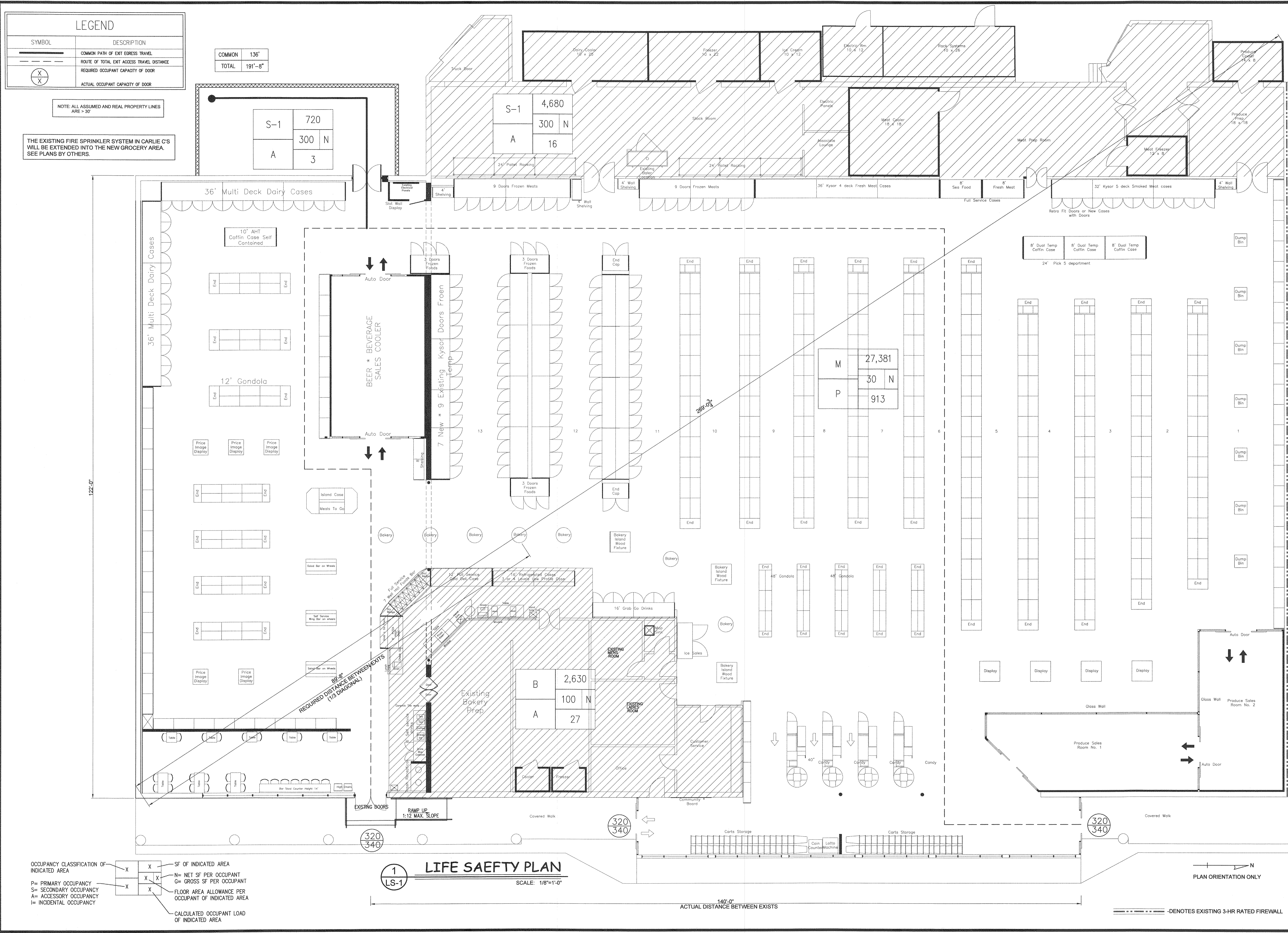
THE EXISTING FIRE SPRINKLER SYSTEM IN CARLIE C'S WILL BE EXTENDED INTO THE NEW GROCERY AREA. SEE PLANS BY OTHERS.

S-1	720
A	3
	300 N

S-1	4,680
A	16
	300 N

M	27,381
P	913
	30 N

B	2,630
A	27
	100 N



**LIFE SAFETY PLAN**

SCALE: 1/8"=1'-0"

1 LS-1

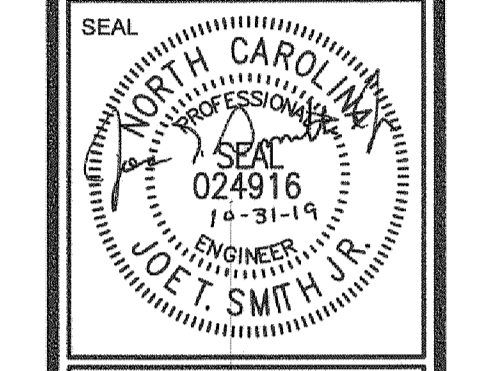
OCCUPANCY CLASSIFICATION OF INDICATED AREA	X	SF OF INDICATED AREA
	X	N= NET SF PER OCCUPANT
	X	G= GROSS SF PER OCCUPANT
P= PRIMARY OCCUPANCY	X	F= FLOOR AREA ALLOWANCE PER OCCUPANT OF INDICATED AREA
S= SECONDARY OCCUPANCY	X	L= CALCULATED OCCUPANT LOAD OF INDICATED AREA
A= ACCESSORY OCCUPANCY	X	
I= INCIDENTAL OCCUPANCY	X	

140'-0" ACTUAL DISTANCE BETWEEN EXISTS

PLAN ORIENTATION ONLY

-DENOTES EXISTING 3-HR RATED FIREWALL

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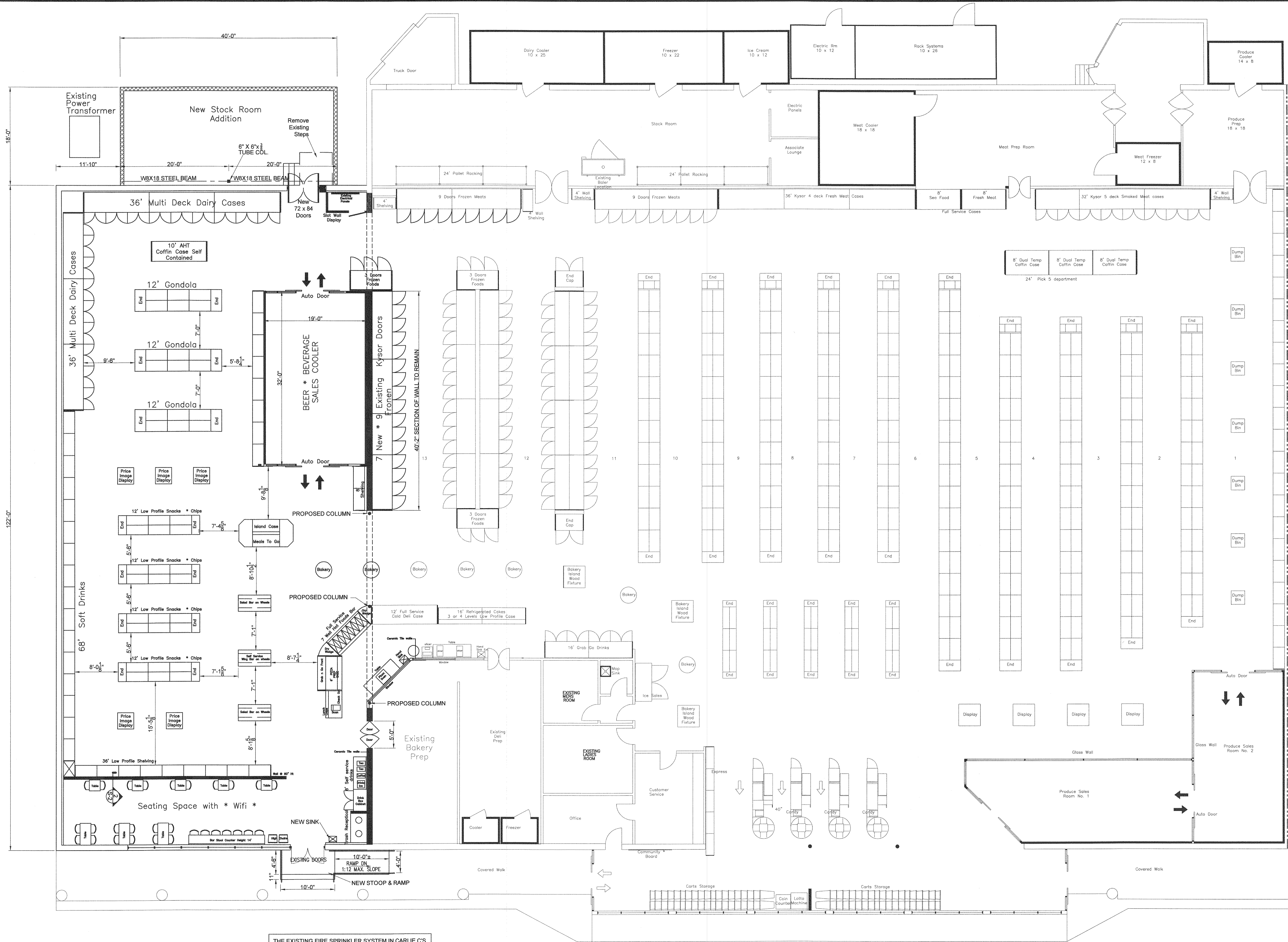
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 1603 S. HOLLYBROOK RD.  
 WENDELL, NC 27591

REV#	DATE	DESCRIPTION

**Carlie C's IGA**  
 333 N. Raleigh Street  
 Angier, NC 27501

DATE: 31 October 2019  
 DRAWN BY: JS  
 SCALE: 1/8" = 1'-0"

**LS-1**

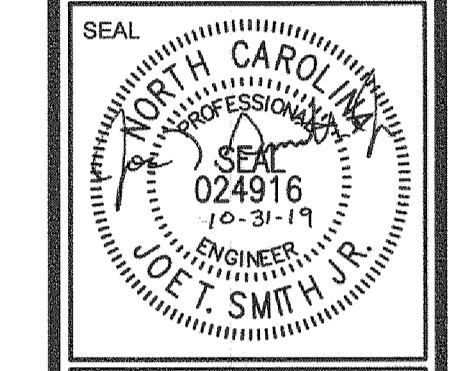


**1 FLOOR PLAN**  
 SCALE: 1/8"=1'-0"

THE EXISTING FIRE SPRINKLER SYSTEM IN CARLIE C'S WILL BE EXTENDED INTO THE NEW GROCERY AREA. SEE PLANS BY OTHERS.

--- -DENOTES EXISTING 3-HR RATED FIREWALL

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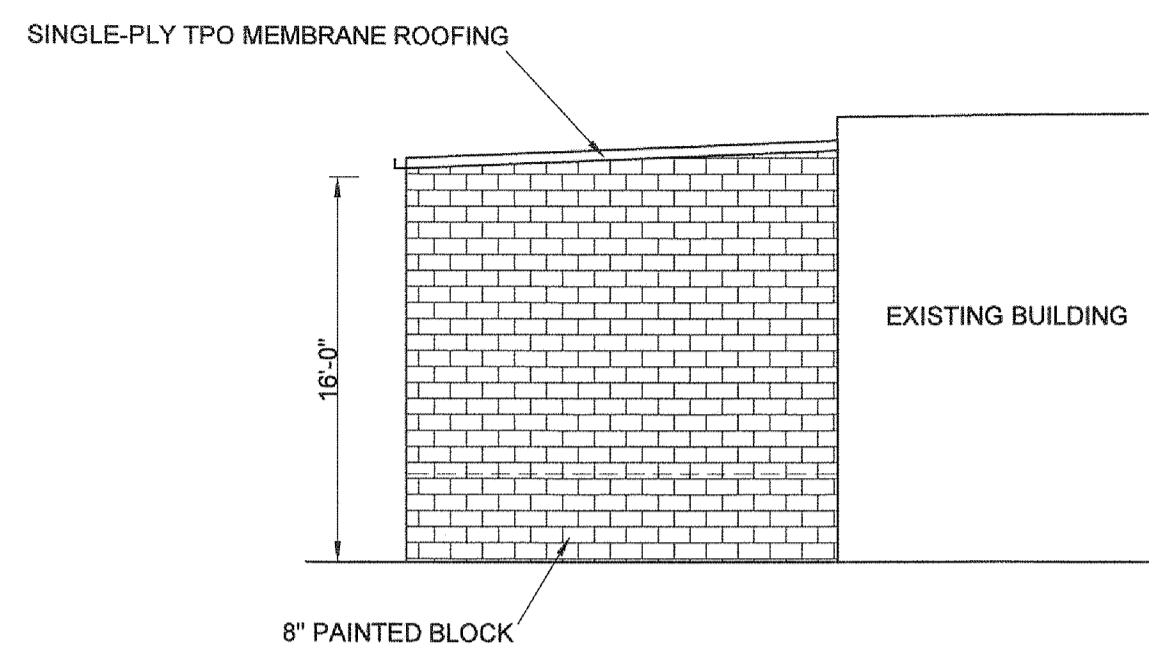


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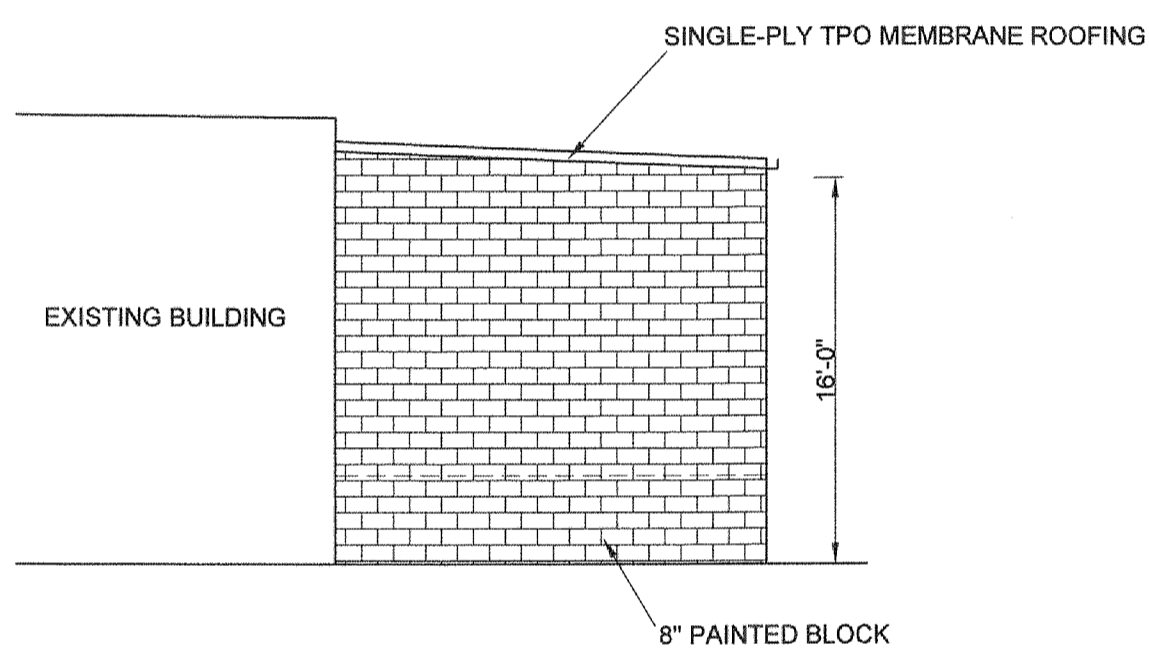
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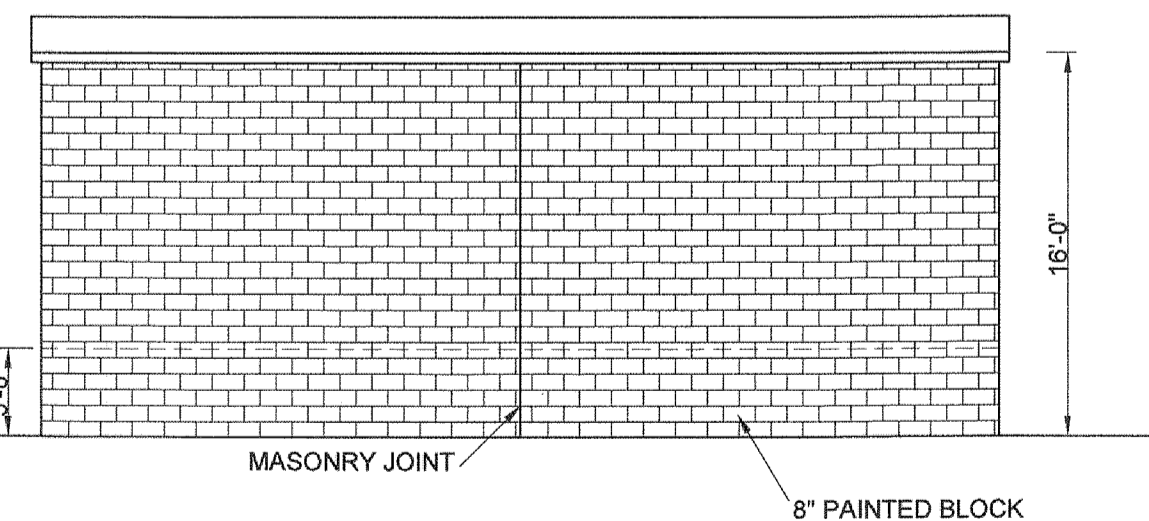
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**G-1**



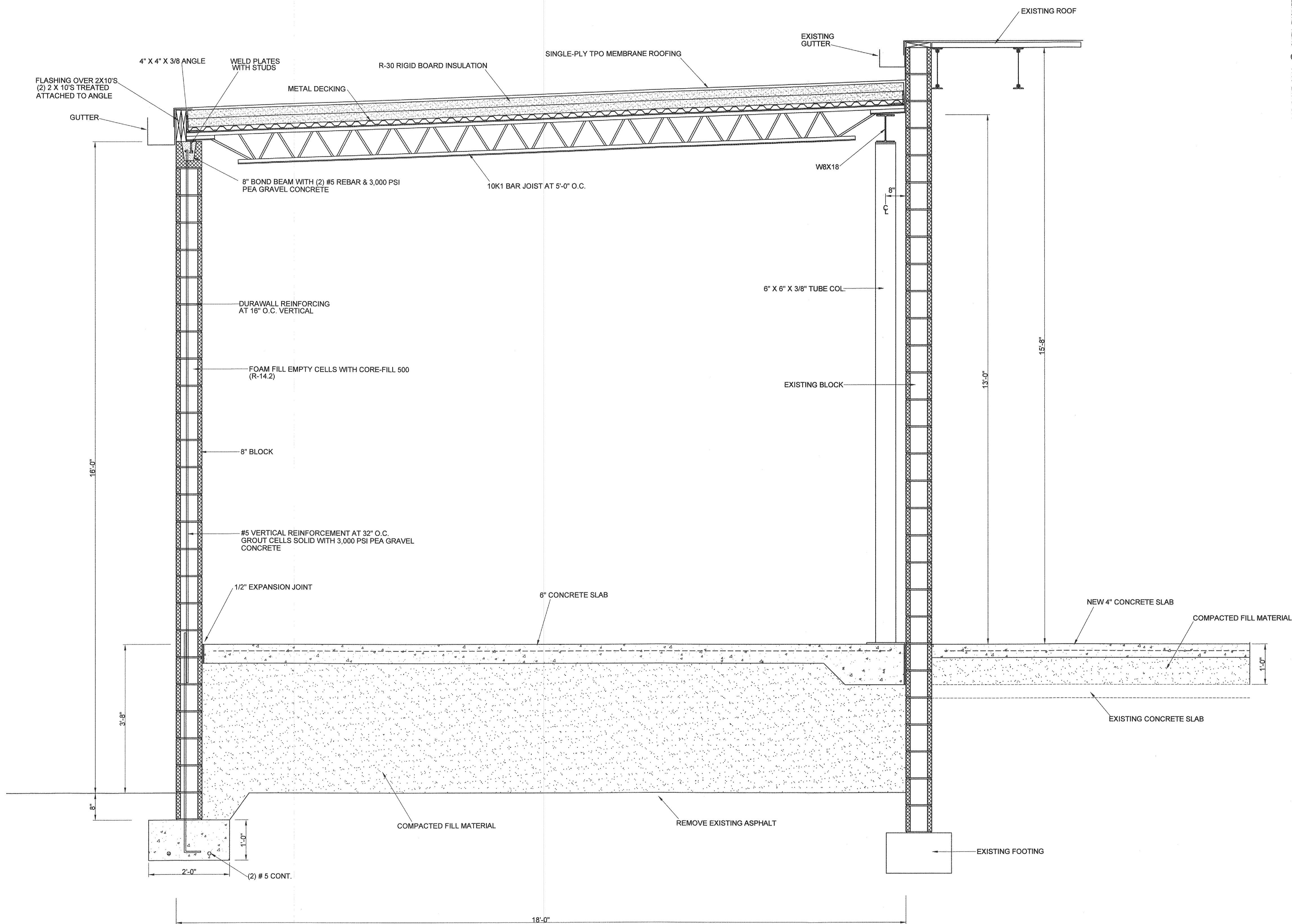
**2 RIGHT ELEVATION**  
SCALE: 1/8"=1'-0"



**3 LEFT ELEVATION**  
SCALE: 1/8"=1'-0"



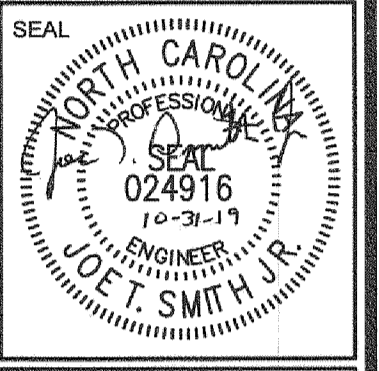
**4 FRONT ELEVATION**  
SCALE: 1/8"=1'-0"



**1 SECTION THROUGH STORAGE ROOM**  
SCALE: 3/4"=1'-0"

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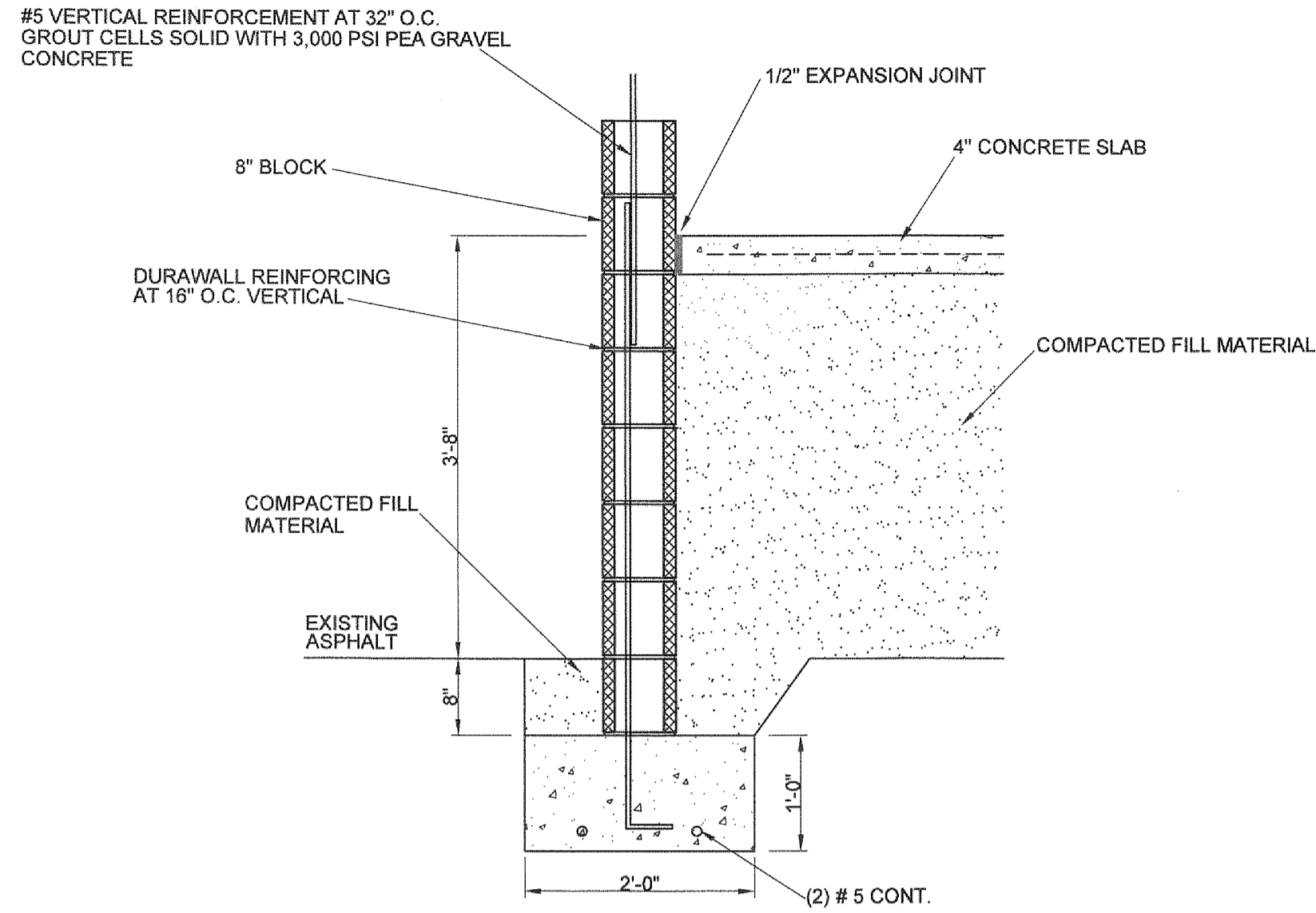
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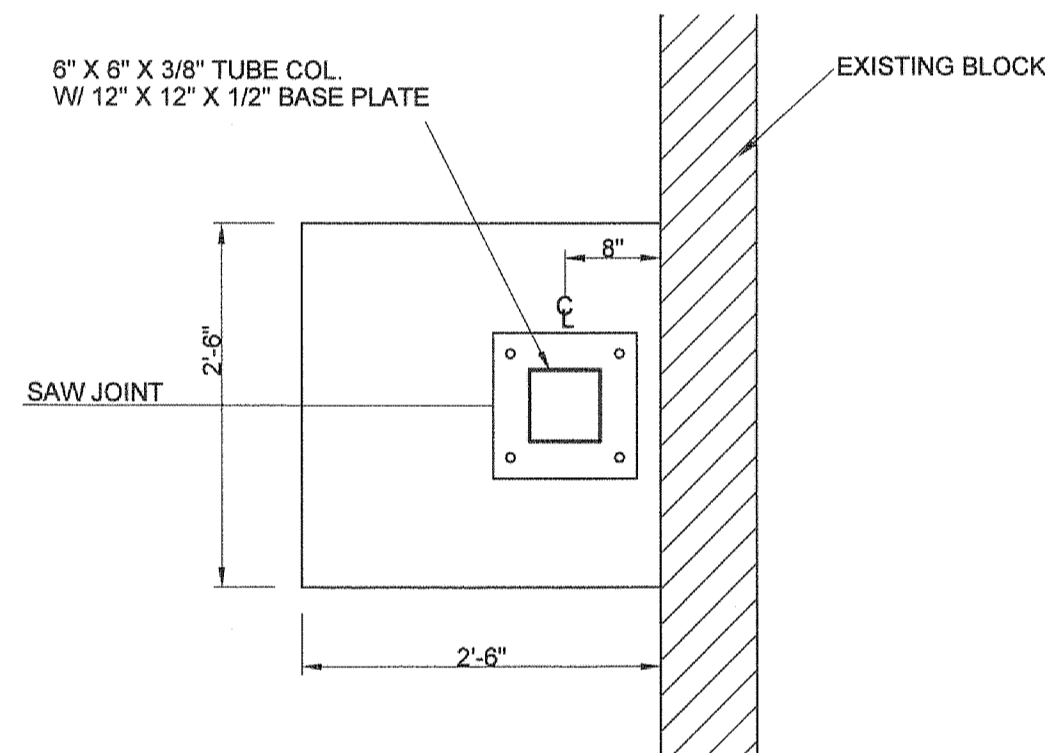
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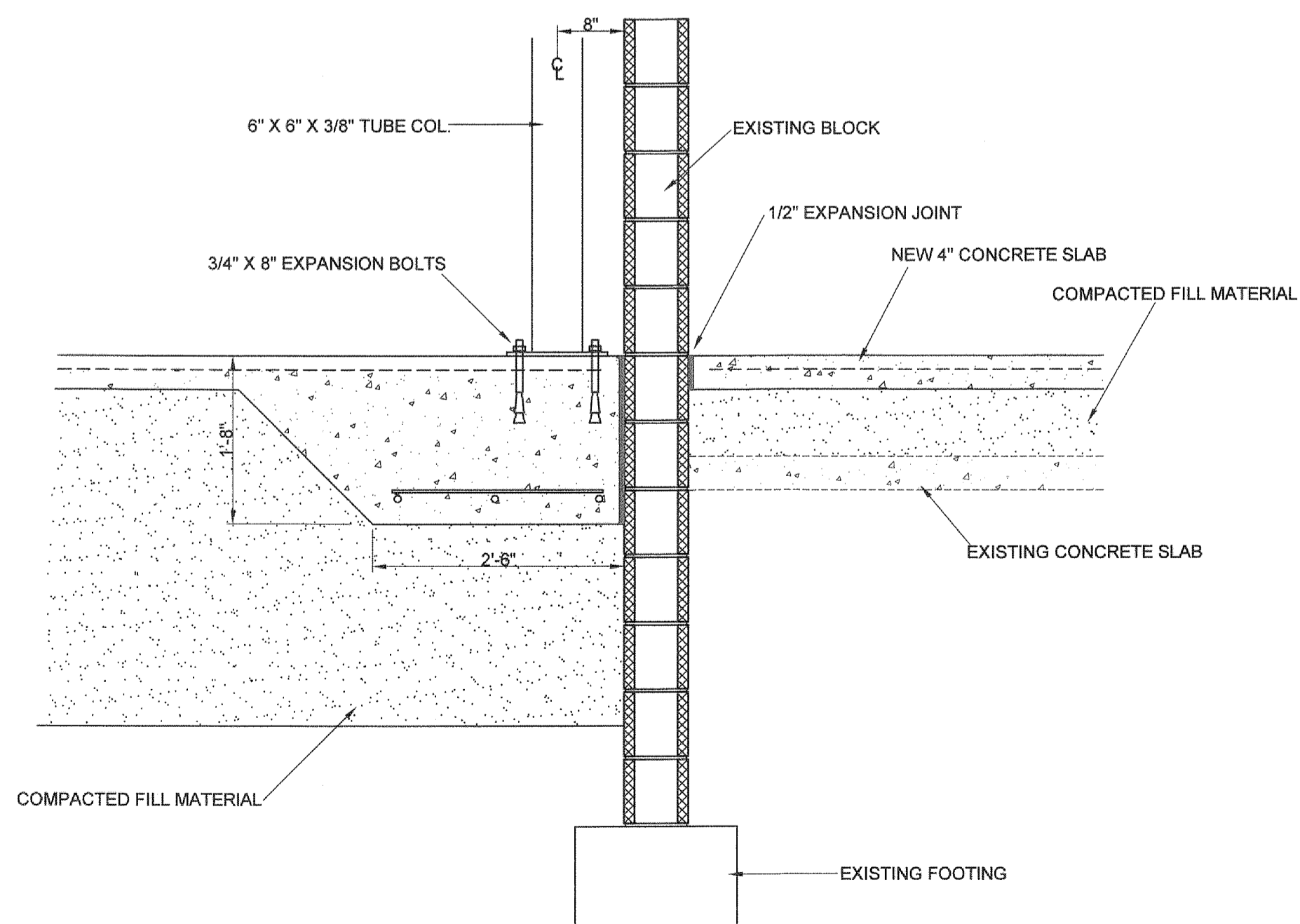
**G-2**



**SECTION 1-1**  
SCALE: 3/4"=1'-0"



**PLAN**



**FOOTING "A"**  
SCALE: 3/4"=1'-0"

**STRUCTURAL NOTES:**

**GENERAL**

1. THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY BRACING, SHORING, AND GUYING OF FRAMING AND WALLS AGAINST WIND, CONSTRUCTION LOADS, AND OTHER TEMPORARY FORCES UNTIL SUCH PROTECTION IS NO LONGER REQUIRED FOR THE SAFE SUPPORT OF THE FRAMING.

2. CONSTRUCTION SAFETY: THESE STRUCTURAL DRAWINGS DO NOT CONTAIN NECESSARY COMPONENTS FOR SAFETY DURING CONSTRUCTION.

**FOUNDATIONS**

1. THE STRUCTURAL ENGINEER HAS NOT PERFORMED A SUBSURFACE INVESTIGATION. THE FOUNDATION IS BASED UPON AN ASSUMED SOIL BEARING CAPACITY OF 2000 PSF NET BEARING. VERIFICATION OF THIS ASSUMED VALUE IS THE RESPONSIBILITY OF THE OWNER OR CONTRACTOR. SHOULD ANY ADVERSE SOIL CONDITION BE ENCOUNTERED, THE STRUCTURAL ENGINEER MUST BE CONTACTED BEFORE PROCEEDING.
2. THE BOTTOM OF ALL FOOTINGS SHALL EXTEND BELOW THE FROST LINE FOR THE REGION IN WHICH THE STRUCTURE IS TO BE CONSTRUCTED. HOWEVER, THE TOP SHALL HAVE A MINIMUM OF 12" BELOW GRADE.
3. ANY FILL SHALL BE PLACED UNDER THE DIRECTION OR RECOMMENDATION OF A LICENSED PROFESSIONAL ENGINEER. THE RESULTING SOIL SHALL BE COMPACTED TO A MINIMUM OF 95 PERCENT MAXIMUM DRY DENSITY.

**CONCRETE**

1. REINFORCED CONCRETE WORK SHALL COMPLY WITH BOTH "SPECIFICATIONS FOR STRUCTURAL BUILDINGS" ACI 301 AND "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" ACI 318
2. CONCRETE SHALL BE PLACED IN ACCORDANCE WITH ACI 304R.
3. DURING HOT WEATHER THE CONTROL OF CONCRETE PLACEMENT, PROTECTION AND CURING SHALL COMPLY WITH ACI 305R.
4. WHEN THE MEAN DAILY TEMPERATURE IS BELOW 40 DEGREES F THE CONTROL OF PLACEMENT, PROTECTION AND CURING SHALL COMPLY WITH ACI 306R.
5. CONCRETE SHALL HAVE NORMAL WEIGHT AGGREGATE AND A MINIMUM COMPRESSIVE STRENGTH (F<sub>c</sub>) AT 28 DAYS AS LISTED BELOW.  
5.1 FOOTINGS 3000 PSI  
5.2 SLABS-ON-GRADE 3000 PSI
6. CONCRETE SLABS ON GRADE SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 302.1R-96 "GUIDE FOR CONCRETE SLAB AND SLAB CONSTRUCTION"
7. CONTROL JOINTS SHALL BE SPACED IN SLABS ON GRADE AT A MAXIMUM OF 20'-0" O.C. UNLESS OTHERWISE NOTED.

**CONCRETE MASONRY**

1. ALL CELLS CONTAINING REINFORCEMENT, CELLS BELOW GRADE AND ANY LOCATIONS NOTED ON THE PLANS SHALL BE GROUTED SOLID. GROUT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH (f<sub>m</sub>) OF 2000 PSI.

**MASONRY**

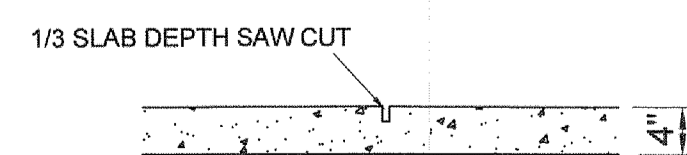
1. MASONRY CONSTRUCTION SHALL COMPLY WITH ACI 530.1-02/ASC 6-02 "SPECIFICATION FOR MASONRY STRUCTURES."
2. ASSUMED MASONRY PROPERTIES: UNIT COMPRESSIVE STRENGTH 1900 PSI. TYPE S MORTAR, PARTIAL GROUT, RUNNING BOND.

**STRUCTURAL STEEL**

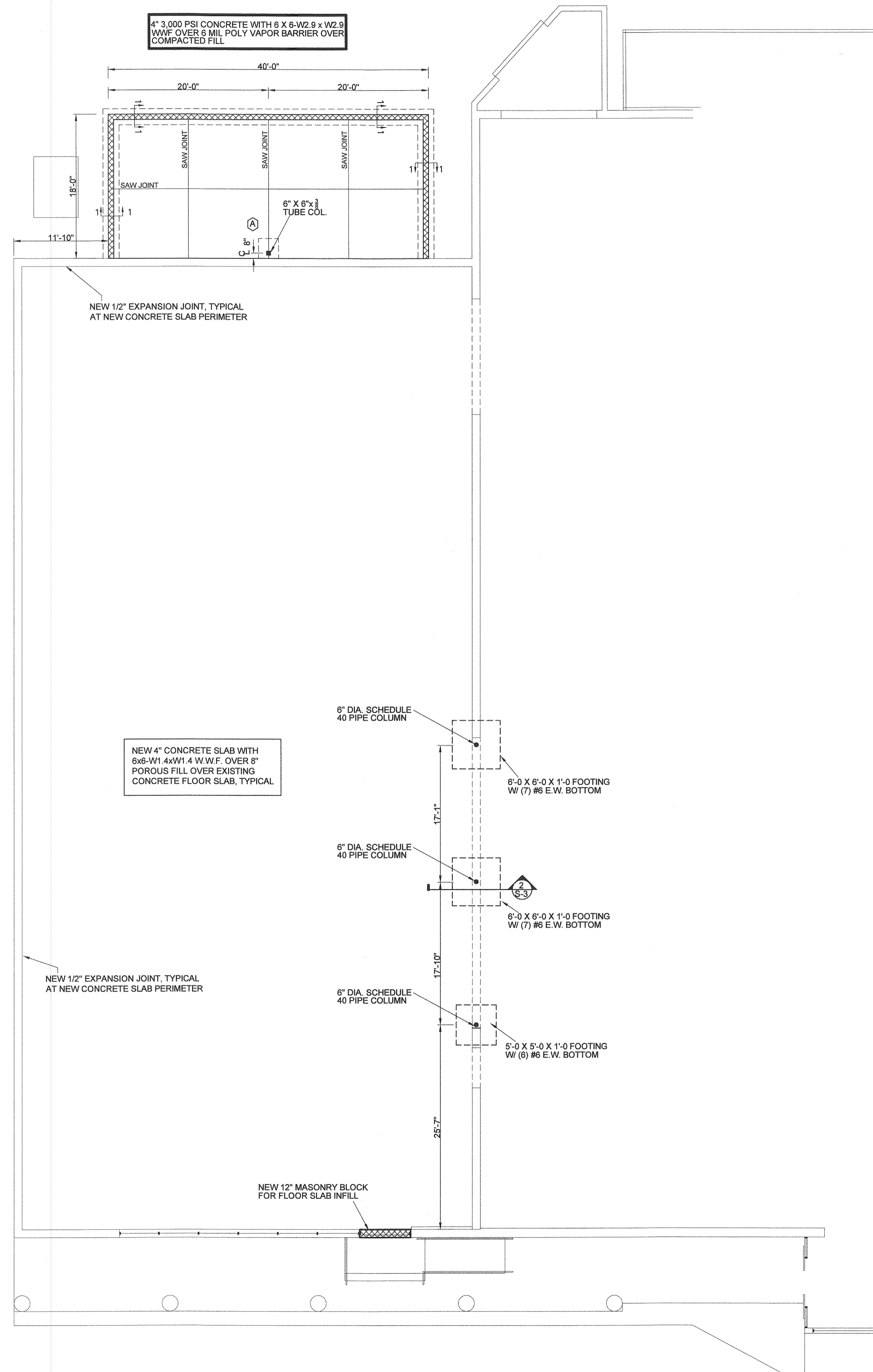
1. ALL WORK TO CONFORM TO THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, AISC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, LATEST EDITIONS.
2. STRUCTURAL STEEL SHALL BE OF THE FOLLOWING MATERIALS:  
W SHAPES ASTM A992  
L&C SHAPES AND PLATE ASTM A36  
STRUCTURAL TUBE AS40 GRADE B 46 KSI  
STEEL PIPE ASTM A53 GRADE B 35 KSI  
ANCHOR BOLTS ASTM A3070  
WELDING ELECTRODES E70XX  
BOLTS 3/4" DIAMETER ASTM A325-N  
DESIGN CONNECTIONS FOR FULL STRENGTH OF MEMBERS.

**REINFORCING STEEL**

1. REINFORCING STEEL SHALL COMPLY WITH ASTM A615, GRADE 60. WELDED WIRE FABRIC SHALL COMPLY WITH ASTM A185. WELDABLE REINFORCING BARS SHALL COMPLY WITH ASTM A706, GRADE 60.
2. CLEAR CONCRETE COVER ON REINFORCING STEEL: BOTTOM OF FOOTINGS = 3", SIDE AND TOP SURFACE OF FOOTINGS = 2", BOTTOM OF SLAB ON GRADE = 2 1/2", WALL SURFACE = 2", TOP OR BOTTOM SURFACE OF FLOOR SLABS = 3/4"
3. PROVIDE CLASS 3 BAR AND MESH SUPPORTS.
4. DETAILING, FABRICATION AND PLACEMENT OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI 315 (LATEST EDITION) MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES.
5. HORIZONTAL FOOTING AND WALL REINFORCEMENT SHALL BE CONTINUOUS AND SHALL HAVE 90° BENDS OR CORNER BARS SHALL BE INSTALLED. THE CORNER BAR SHALL HAVE THE SAME SIZE AND SPACING AS THE HORIZONTAL REINFORCEMENT WITH A CLASS B TENSION SPLICE.
6. LAP REINFORCEMENT AS REQUIRED A MINIMUM OF 40 BAR DIAMETERS FOR TENSION OR COMPRESSION UNLESS NOTED OTHERWISE. SPLICES IN MASONRY SHALL BE A MINIMUM OF 48 BAR DIAMETERS.

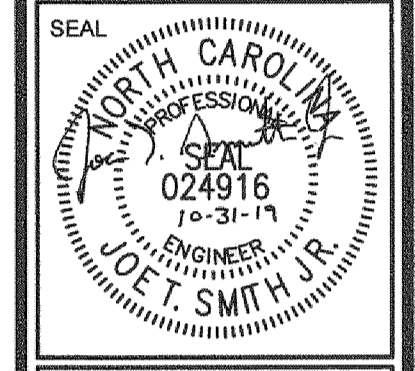


**SAW JOINT**



**FOUNDATION PLAN**  
SCALE: 1/8"=1'-0"

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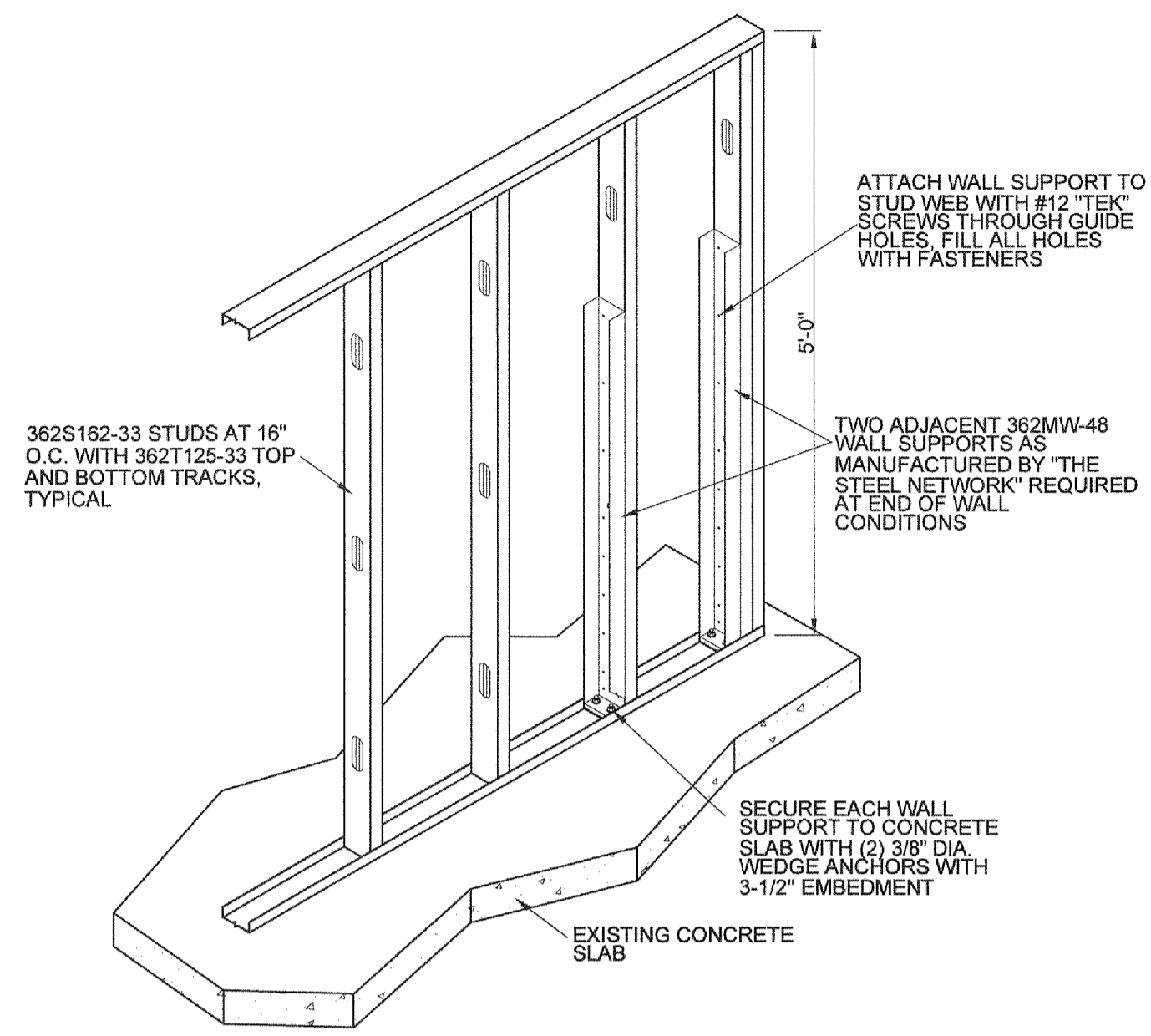
G & G BUILDERS, INC.  
1603 S. HOLLYBROOK RD.  
WENDELL, NC 27591

REV#	DATE	DESCRIPTION

Carlie C's IGA  
333 N. Raleigh Street  
Angier, NC 27501

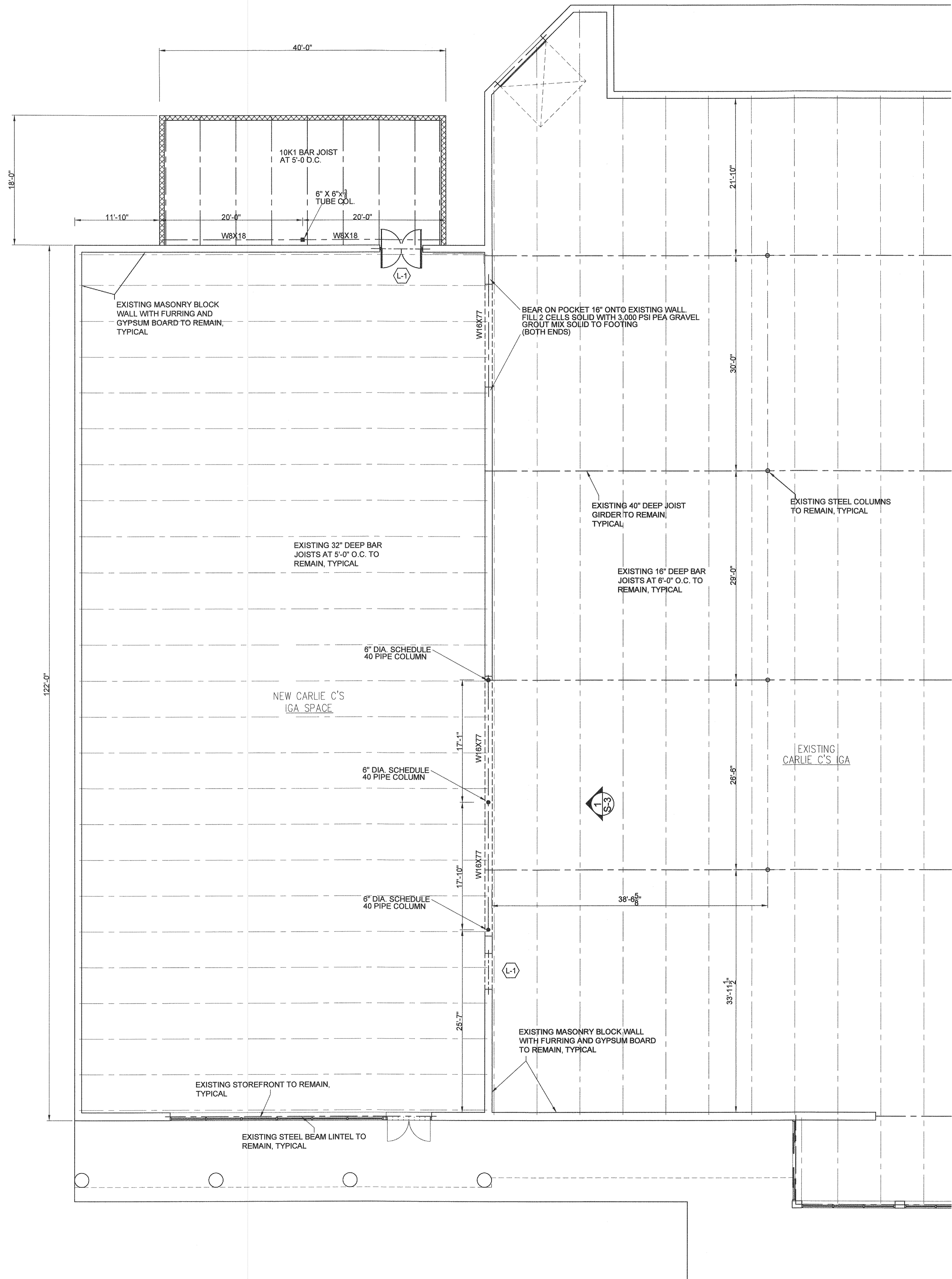
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DRAWN BY: JS  
SCALE: 1/8" = 1'-0"

**S-1**



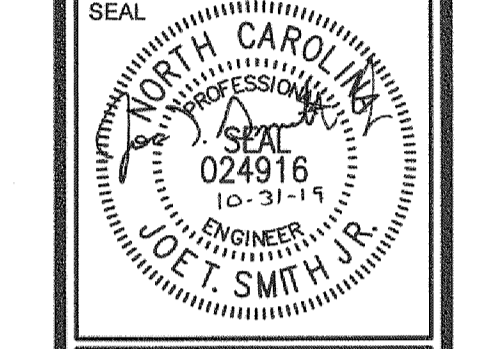
**SECTION AT 60" WALL**  
SCALE: N.T.S.

LINTEL SCHEDULE			
MARK	TYPE	SIZE	REMARKS
L-1	(2) ANGLES	6" x 6" x 3/8" ANGLE	8" BEARING EA END



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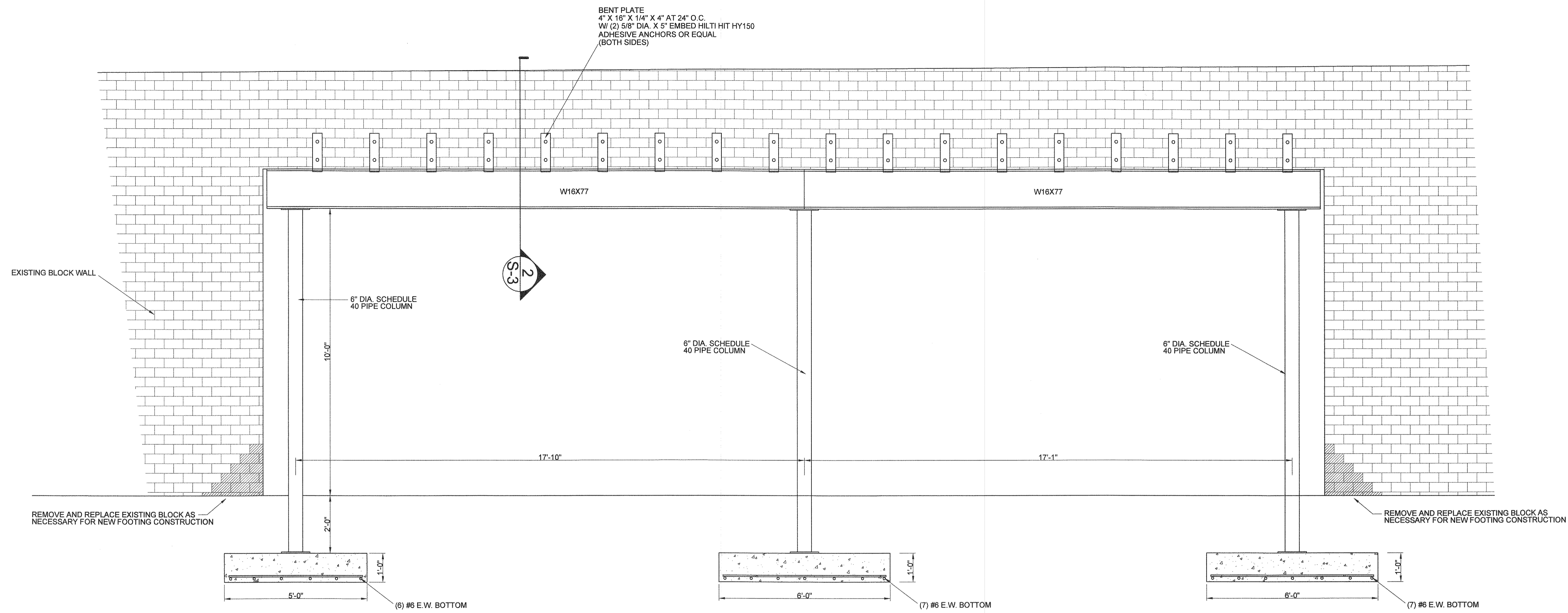
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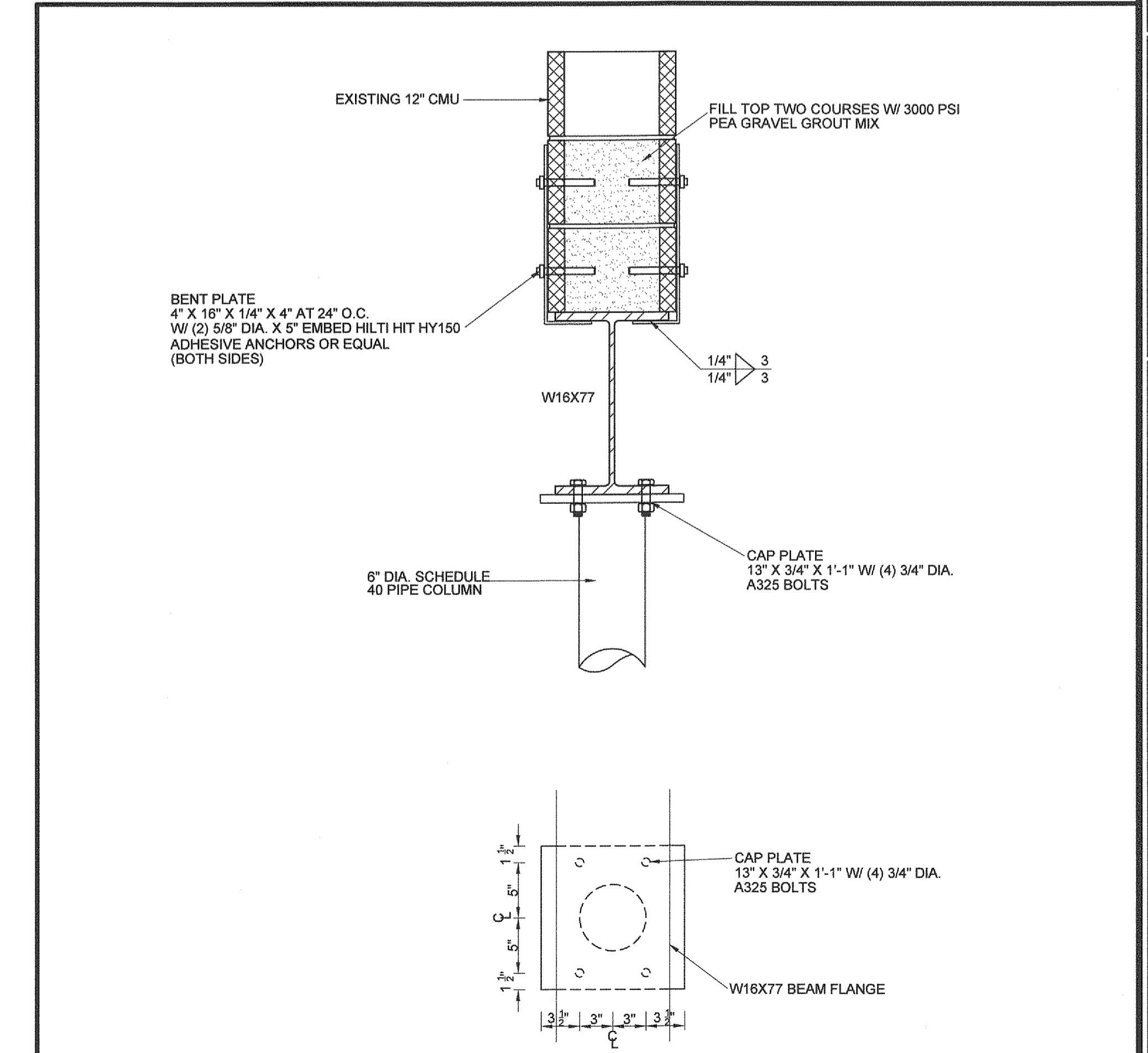
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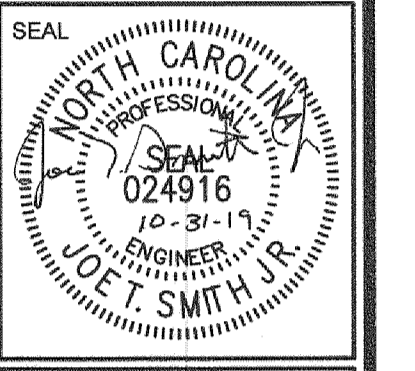
1  
S-3  
**INTERIOR ELEVATION AT OPENING**  
SCALE: 3/4"=1'-0"



2  
S-3  
**SECTION THROUGH WALL OPENING**  
SCALE: N.T.S.

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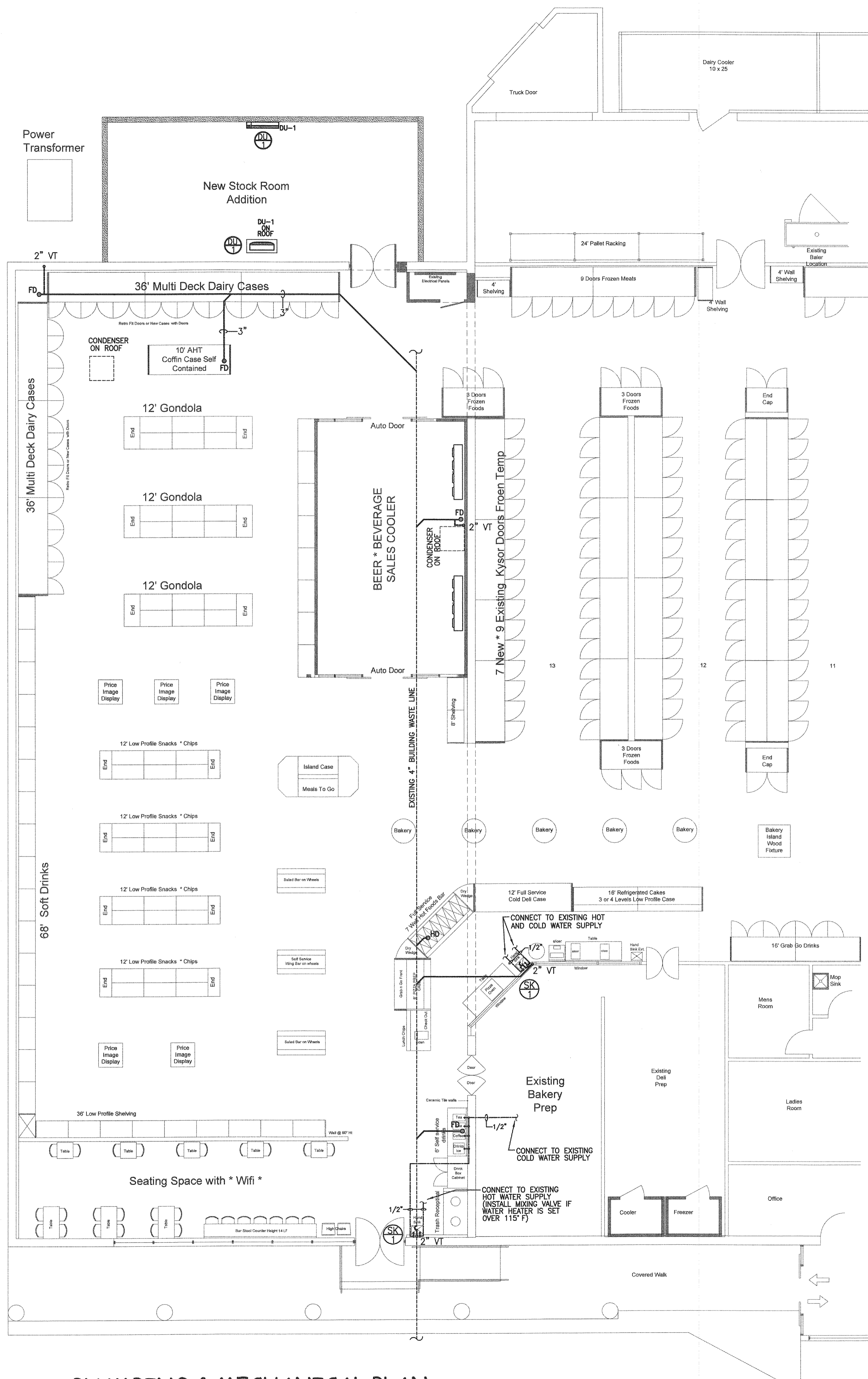
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WENDELL, NC 27591

REV#	DATE	DESCRIPTION

**Carlie C's IGA**  
333 N. Raleigh Street  
Angier, NC 27501

DATE: 31 October 2019  
DRAWN BY: JS  
SCALE: N.T.S.





**1 PLUMBING & MECHANICAL PLAN**  
 SCALE: 1/8"=1'-0"

PLUMBING SPECIALTIES SCHEDULE			
MARK	DESCRIPTION	MANF.	REFERENCE MODEL NO.
COG	CLEANOUT ON GRADE	ZURN	Z-1449
HB	HUB DRAIN	ZURN	Z-320
FD	FLOOR DRAIN	ZURN	ZN-415-3"-W/TYP "B" STRAINER-6"

PLUMBING FIXTURE SCHEDULE					
FIX NO	DESCRIPTION	CW	HW	WASTE	REFERENCE MODEL NO.
SK-1	HAND SINK SINGLE BOWL STAINLESS STEEL	1/2"	1/2"	2"	SELECTED BY OWNER

PLUMBING LEGEND		
SYMBOL	ABBR	DESCRIPTION
—	CW	COLD WATER LINE
—	HW	HOT WATER LINE
—	WWR	SOIL OR WASTE LINE
—	VT	VENT LINE
—	VTR	VENT THRU ROOF
—	WCO	WALL CLEANOUT
—	FCO	FLOOR CLEANOUT
—	COG	CLEANOUT ON GRADE
—	FHB	FROSTPROOF HOSE BIBB/HYDRANT
—	—	SHUTOFF VALVE
—	—	BALL VALVE
—	BFP	BACKFLOW PREVENTER UNION
—	—	CONCENTRIC REDUCER
—	—	FLOW DIRECTION ARROW
—	—	FIXTURE MARK (SEE SCHEDULE)
—	G.C.	GENERAL CONTRACTOR
—	P.C.	PLUMBING CONTRACTOR
—	M.C.	MECHANICAL CONTRACTOR
—	E.C.	ELECTRICAL CONTRACTOR
—	AFB	ABOVE FINISHED FLOOR
—	AFG	ABOVE FINISHED GRADE
—	BFG	BELOW FINISHED GRADE

**PLUMBING NOTES:**

- PLUMBING PLANS ARE INTENDED TO PROVIDE INFORMATION FOR INSTALLATION OF A COMPLETE PLUMBING SYSTEM. PROVIDE ALL ESSENTIAL LABOR, MATERIALS & DEVICES REQUIRED TO PRODUCE A QUALITY END PRODUCT.
- CONTRACTOR SHALL REVIEW & BECOME FAMILIAR WITH THE WORK OF ALL TRADES FOR PURPOSES OF COORDINATION AND ROUTING. CONTRACTOR SHALL PROVIDE REQUIRED PLANNING, COORDINATION AND SEQUENCING OF PLUMBING INSTALLATION WITH BUILDING COMPONENTS AND OTHER TRADES.
- COORDINATE CONNECTION OF PLUMBING SYSTEMS WITH SITE UTILITIES AND SERVICES.
- COORDINATE ROOF VENT LOCATIONS WITH OUTSIDE AIR INTAKES OF HVAC UNITS TO MAINTAIN A MINIMUM CLEARANCE OF 10 FEET.
- ALL WORK SHALL COMPLY WITH LOCAL, STATE & ADA CODES. WORKMANSHIP SHALL MEET OR EXCEED INDUSTRY STANDARDS.
- DRAIN, WASTE & VENT (DWV) PIPING SHALL BE ASTM D 1784, SOLID-WALL, SCHEDULE 40 PVC WITH SOCKET TYPE FITTINGS AND SOLVENT-WELDED JOINTS. FOAM CORE PIPING IS NOT ACCEPTABLE.
- ABOVE GRADE WATER PIPING SHALL BE ASTM F 877 CROSS-LINKED POLYETHYLENE (PEX) PLASTIC TUBING.
- INDIVIDUAL SUPPLY AND DRAIN CONNECTIONS SIZES ARE NOT INDICATED ON PLANS FOR CLARITY. SIZE EACH TO SUIT RESPECTIVE FIXTURE.
- WATER PIPING INSTALLED IN UNCONDITIONED SPACE SHALL BE INSULATED WITH FIBERGLASS INSULATION WITH A MINIMUM R VALUE OF 6.5.
- DOMESTIC COLD AND HOT WATER PIPING SHALL BE INSULATED WITH FIBERGLASS AND FOIL & PAPER JACKET AS FOLLOWS:  
 RUNOUTS 3/4" OR LESS: 1/2" THICK  
 PIPING 3/4" TO 2" 1" THICK
- PIPING PASSING THROUGH CONCRETE/MASONRY WALLS OR FLOORS SHALL BE PROTECTED AGAINST EXTERNAL CORROSION BY PROTECTIVE SHEATHING OR WRAPPING.
- VERIFY FINAL LOCATIONS FOR ROUGH-INS WITH FIELD MEASUREMENTS AND WITH THE REQUIREMENTS OF THE ACTUAL EQUIPMENT TO BE CONNECTED.
- INSTALL PLUMBING FIXTURES AND EQUIPMENT LEVEL & PLUMB. ROUTE PIPING PARALLEL & PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS.
- INSTALL EQUIPMENT TO FACILITATE SERVICING, MAINTENANCE & REPAIR IN ACCORDANCE WITH MFG'S WRITTEN INSTALLATION INSTRUCTIONS AS WELL AS SPECIFIC INSTRUCTIONS ON PLANS.
- DWV AND WATER DISTRIBUTION PIPING SHALL BE TESTED IN ACCORDANCE WITH NC PLUMBING CODE SECTION 312.

**MECHANICAL NOTES:**

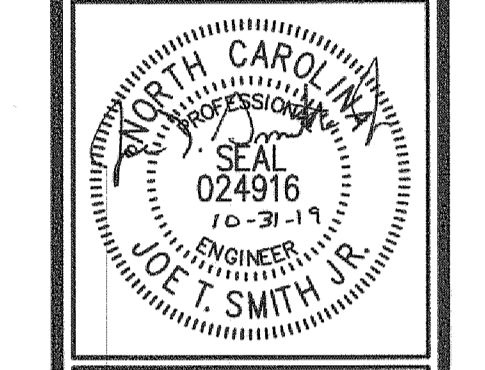
- MECHANICAL PLANS ARE INTENDED TO PROVIDE INFORMATION FOR INSTALLATION OF A COMPLETE OPERATING MECHANICAL SYSTEM. PROVIDE ALL ESSENTIAL LABOR, MATERIALS & DEVICES REQUIRED TO PRODUCE A QUALITY END PRODUCT.
- CONTRACTOR SHALL REVIEW & BECOME FAMILIAR WITH THE WORK OF ALL TRADES FOR PURPOSES OF COORDINATION AND ROUTING. CONTRACTOR SHALL PROVIDE REQUIRED PLANNING, COORDINATION AND SEQUENCING OF HVAC INSTALLATION WITH BUILDING COMPONENTS AND OTHER TRADES.
- ALL WORK SHALL COMPLY WITH LOCAL, STATE & NATIONAL CODES. WORKMANSHIP SHALL MEET OR EXCEED INDUSTRY STANDARDS.
- CONDENSATE TRAPS FOR ALL AC UNITS SHALL BE SIZED AS RECOMMENDED BY UNIT MFG. CONDENSATE PIPING AND TRAPS SHALL BE SCHEDULE 40 PVC ROUTED TO BUILDING EXTERIOR.
- ALL PIPING SHALL BE SUPPORTED & SECURED WITH SUITABLE HANGERS, STRAPS OR PIPE STANDS. SUPPORT WITH NO DROOPS OR SAGS. ALL HANGERS AND ATTACHMENTS SHALL BE PLATED, GALVANIZED OR PAINTED. PROVIDE ISOLATION ON PIPING OF DISSIMILAR MATERIALS.
- POWER WIRING, DISCONNECTS & STARTERS NOT FURNISHED WITH HVAC EQUIPMENT AND FINAL CONNECTIONS SHALL BE BY THE E.C.
- CONTROL WIRING, RELAYS AND INTERLOCKING DEVICES SHALL BE PROVIDED BY THE M.C.
- INSTALL EQUIPMENT TO FACILITATE SERVICING, MAINTENANCE & REPAIR IN ACCORDANCE WITH MANUFACTURE'S INSTALLATION INSTRUCTIONS AS WELL AS SPECIFIC INSTRUCTIONS ON PLANS.
- CONTRACTOR SHALL PROVIDE BUILDING OWNER WITH A COMPLETE OPERATING & MAINTENANCE MANUAL INCLUDING EQUIPMENT BASIC DATA, CONTROL INFORMATION, ROUTINE MAINTENANCE ACTIONS AND SERVICE AGENCIES NAME, PHONE NUMBER & ADDRESS.

DUCTLESS SPLIT SYSTEM UNIT SCHEDULE										
MARK	DESCRIPTION	COOLING CAPACITY		HEATING CAPACITY		VOLT/PH	MCA	MOCP	INDOOR UNIT MANF. & MODEL	OUTDOOR UNIT MANF. & MODEL
		NOM. CAP	SEER	NOM. CAP	HSPF					
DU-1	DUCTLESS SPLIT SYSTEM HEAT PUMP	23,000 MBH	15.0	25,400 MBH	8.2	208/1φ	18.3	20A	DAIKEN FTXQ24NMVJU	DAIKEN RXN24NMVJU

- NOTES:**
- PROVIDE THE FOLLOWING OPTIONS AND ACCESSORIES:  
 - SINGLE POINT WIRING CONNECTION  
 - THERMOSTAT

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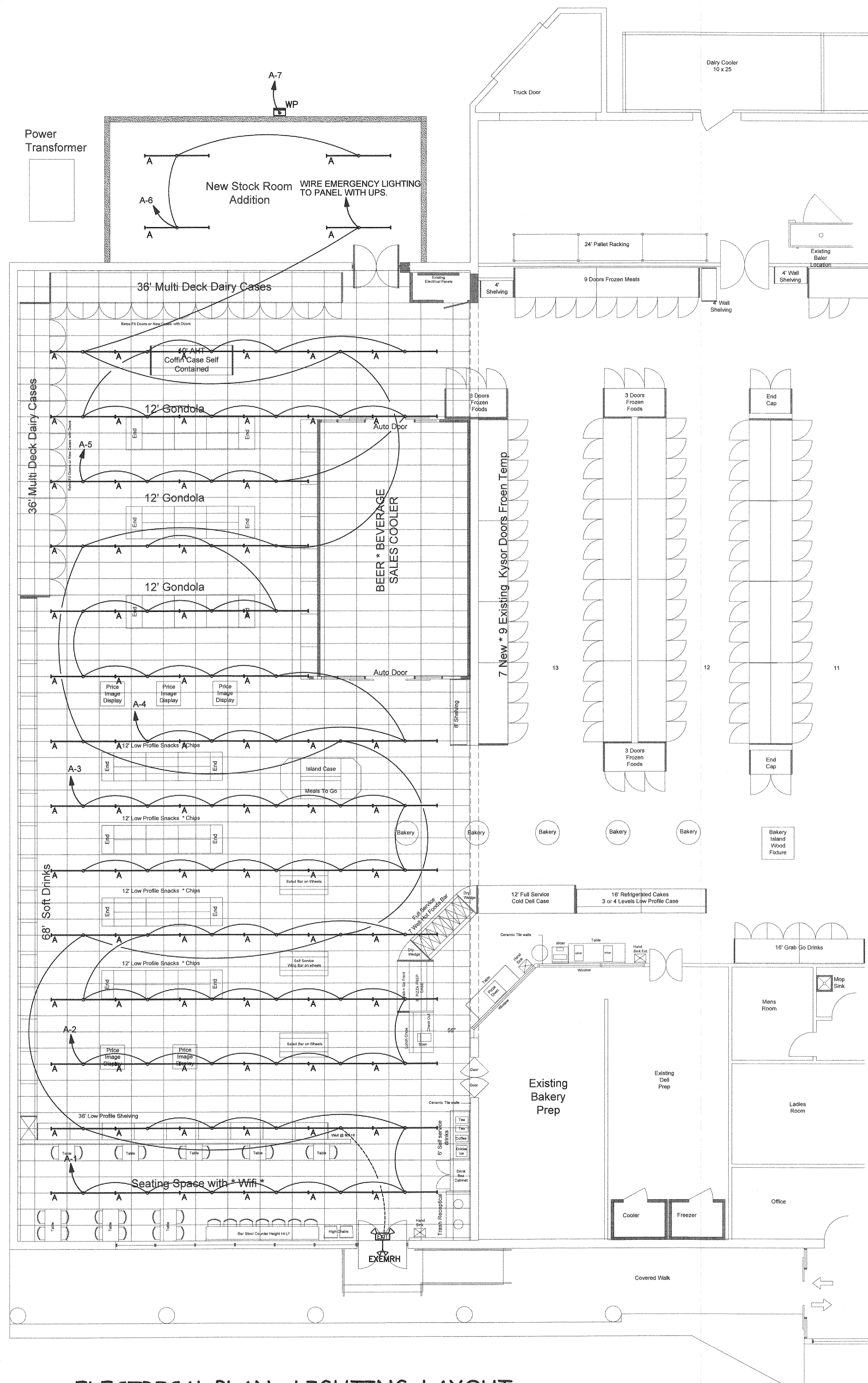
**G & G BUILDERS, INC.**  
 1603 S. HOLLYBROOK RD.  
 WENDELL, NC 27591

REVISIONS	
REV. DATE	DESCRIPTION

**Carlie C's IGA**  
 333 N. Raleigh Street  
 Angier, NC 27501

DATE: 31 October 2019  
 DRAWN BY: JS  
 SCALE: 1/8" = 1'-0"  
**PM-1**





**1** ELECTRICAL PLAN - LIGHTING LAYOUT  
 SCALE: 1/8"=1'-0"

**ELECTRICAL NOTES:**

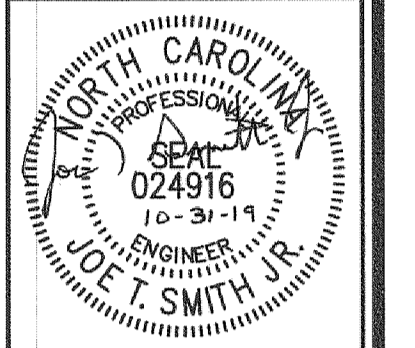
- ELECTRICAL PLANS ARE INTENDED TO PROVIDE INFORMATION FOR INSTALLATION OF A COMPLETE ELECTRICAL SYSTEM. PROVIDE ALL ESSENTIAL LABOR, MATERIALS & DEVICES REQUIRED TO PRODUCE A QUALITY END PRODUCT.
- CONTRACTOR SHALL REVIEW & BECOME FAMILIAR WITH THE WORK OF ALL TRADES FOR PURPOSES OF COORDINATION AND ROUTING. CONTRACTOR SHALL PROVIDE REQUIRED PLANNING, COORDINATION AND SEQUENCING OF ELECTRICAL INSTALLATION WITH BUILDING COMPONENTS AND OTHER TRADES.
- ALL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC). WORKMANSHIP SHALL MEET OR EXCEED INDUSTRY STANDARDS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DISCONNECTS, STARTERS, DEVICES AND ELECTRICAL COMPONENTS UNLESS SPECIFICALLY NOTED AS PROVIDED BY OTHERS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LINE AND LOAD SIDE WIRING INCLUDING ALL TERMINATIONS TO EQUIPMENT PROVIDED UNDER OTHER TRADES. POWER WIRING TO CONTROL DEVICES SHALL BE PROVIDED BY E.C. INTERLOCK WIRING SHALL BE PROVIDED BY THE CONTRACTOR INSTALLING THE CONTROL DEVICE.
- ALL WIRING, PANELBOARDS, DEVICES AND OTHER LIKE MATERIALS SHALL BE UL LISTED & LABELED. ALL MATERIALS SHALL MEET THE NEC FOR THE INTENDED USE AND INSTALLED IN ACCORDANCE WITH THE NEC.
- PROVIDE THHN/THWN COPPER WIRE. PROVIDE A MINIMUM WIRE SIZE OF #12. ALL WIRE #8 AND LARGER SHALL BE STRANDED. CONDUCTORS AND CONDUIT ON PLANS AND SCHEDULES REFLECT AMPACITIES PER NEC 310-16 75C RATING. CONTRACTOR SHALL VERIFY ALL TERMINATIONS, LUGS, ETC. ARE RATED FOR USE PER NEC 110-4C. OTHERWISE PROVIDE CONDUCTOR AND CONDUIT SIZED PER LOWEST TEMPERATURE RATING OF ANY TERMINATION WITHIN A CIRCUIT. A SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED FOR ALL CIRCUITS.
- PROVIDE MC CABLE FOR ALL SINGLE PHASE BRANCH CIRCUITS 30 AMPS AND SMALLER. PROVIDE CONDUIT FOR ALL OTHER WIRING. EMT OR RIGID SHALL BE USED WHERE EXPOSED TO PHYSICAL DAMAGE. CONDUIT ABOVE GRADE SHALL BE STEEL. CONDUIT BELOW GRADE MAY BE PVC CHANGING TO STEEL IN THE ELBOW TURNING UP. EMT SHALL NOT BE USED IN DIRECT CONTACT WITH THE EARTH OR WHERE EXPOSED TO SEVERE PHYSICAL DAMAGE. FITTINGS ON STEEL CONDUIT SHALL BE COMPRESSION TYPE.
- PROVIDE 3/4-INCH EMPTY CONDUITS TERMINATING ABOVE THE CEILING FOR ALL HVAC THERMOSTATS. JUNCTION BOXES SHALL MATCH ORIENTATION OF THERMOSTATS PROVIDED BY M.C. MOUNT JUNCTION BOXES 48-INCHES A.F.F. UNLESS NOTED OTHERWISE. PROVIDE PROTECTIVE BUSHINGS ON ENDS OF CONDUIT.
- PROVIDE TYPE WRITTEN PANEL SCHEDULES IN EACH PANEL INDICATING THE LOAD DESCRIPTION FOR EACH BREAKER. LABEL PANELS ON PANEL FACE WITH PHENOLIC LABELS INDICATING PANEL NUMBER OR LETTER DESIGNATION, VOLTAGE AND PHASE.
- PROVIDE FUSED AND NON-FUSED DISCONNECT SWITCHES AS INDICATED ON PLANS. DISCONNECTS LOCATED OUTSIDE SHALL BE NEMA-3R. PROVIDE REJECTION CLIPS IN FUSED DISCONNECTS.
- PROVIDE LIGHTING AS SCHEDULED IN THE FIXTURE SCHEDULE OR OTHERWISE NOTED ON PLANS. LIGHTING INSTALLED IN SUSPENDED CEILINGS SHALL BE SUPPORTED INDEPENDENTLY OF THE CEILING GRID SYSTEM.
- PROVIDE EMERGENCY AND EXIT LIGHTS AS SHOWN ON PLANS. POWER SHALL BE PROVIDED FROM LIGHTING CIRCUITS ON THE UNSWITCHED LEG OF THE CIRCUIT SUCH THAT POWER TO THE EMERGENCY AND EXIT LIGHTS IS NOT DISCONNECTED WHEN NORMAL LIGHTING IS OFF. EXTERIOR EMERGENCY LIGHTS SHALL BE WIRED SUCH THAT PHOTOCELL AND/OR TIME CLOCK OPERATION DOES NOT DISCONNECT POWER TO BATTERIES.
- RECEPTACLES SHALL BE 20 AMP, 120V UNLESS NOTED OTHERWISE.
- RECEPTACLES ABOVE COUNTERTOPS AND ADJACENT TO SINKS & LAVATORIES SHALL BE GROUND FAULT.
- WALL SWITCHES SHALL BE SINGLE POLE, 20 AMP, 120/277V.
- PROVIDE STANDARD SIZE WALL PLATES FOR ALL DEVICES AND BLANK WALL PLATES FOR JUNCTION BOXES. WALL PLATES SHALL BE HIGH IMPACT, SMOOTH NYLON, COLOR TO MATCH DEVICE.

COORDINATE LIGHTING CONTROLS LOCATION WITH OWNER

MARK	DESCRIPTION	LAMP		BALLAST		FIXTURE INPUT WATTS	VOLTS	NOTES
		TYPE	NO.	WATTS	TYPE			
A	8'-0" STRIP LIGHT	LED	-	-	-	90	120	8,500 LUMEN
WP	WALL PAK	LED	-	-	-	96	120	PHOTOCELL CONTROLLED
EX	EXIT LIGHT	(LED) PAR	2	6	-	12	120	
EXEM	EXIT/EMER. LIGHT	(LED) PAR	4	6	-	24	120	
EXEMRH	EXIT/EMER. LIGHT WITH REMOTE HEADS	(LED) PAR	6	6	-	30	120	
EM	EMERGENCY LIGHT	(LED) PAR	2	6	-	12	120	

- NOTES:
- PROVIDE EXIT LIGHTS WITH SINGLE OR DOUBLE-FACE AS REQUIRED, CHEVRON DIRECTIONAL INDICATORS, MOUNTING BRACKETS & NICKEL CADMIUM BATTERY BACKUP.
  - PROVIDE ALL FIXTURES WITH LAMPS OF MODERATE TONE (3500K) AND GOOD CRI (COLOR RENDERING INDEX).
  - PROVIDE FIXTURES BY LITHONIA, COLUMBIA, HUBBLE, OR EQUAL PRODUCT.

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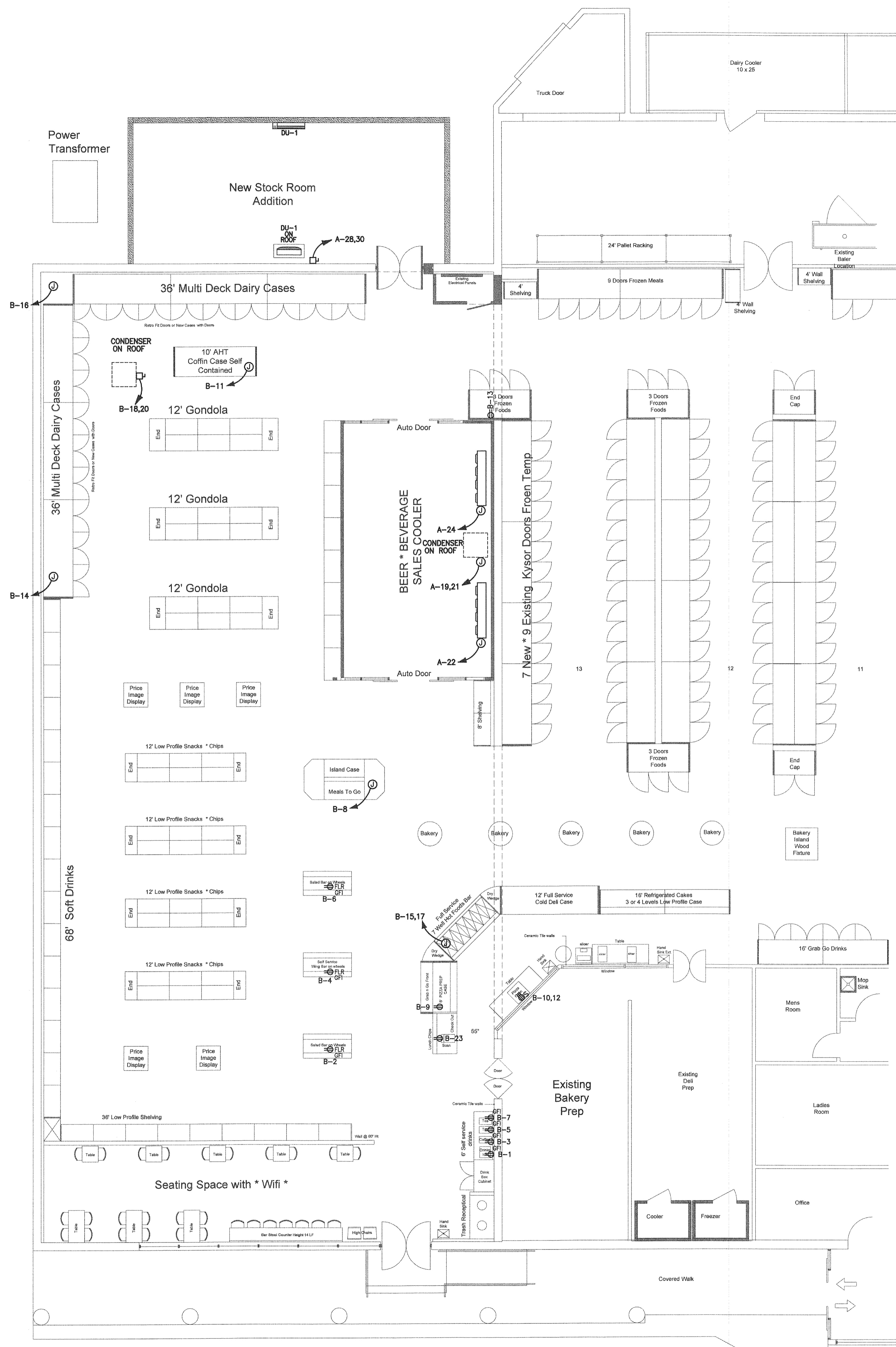
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 WENDELL, NC 27591

REV. DATE	DESCRIPTION

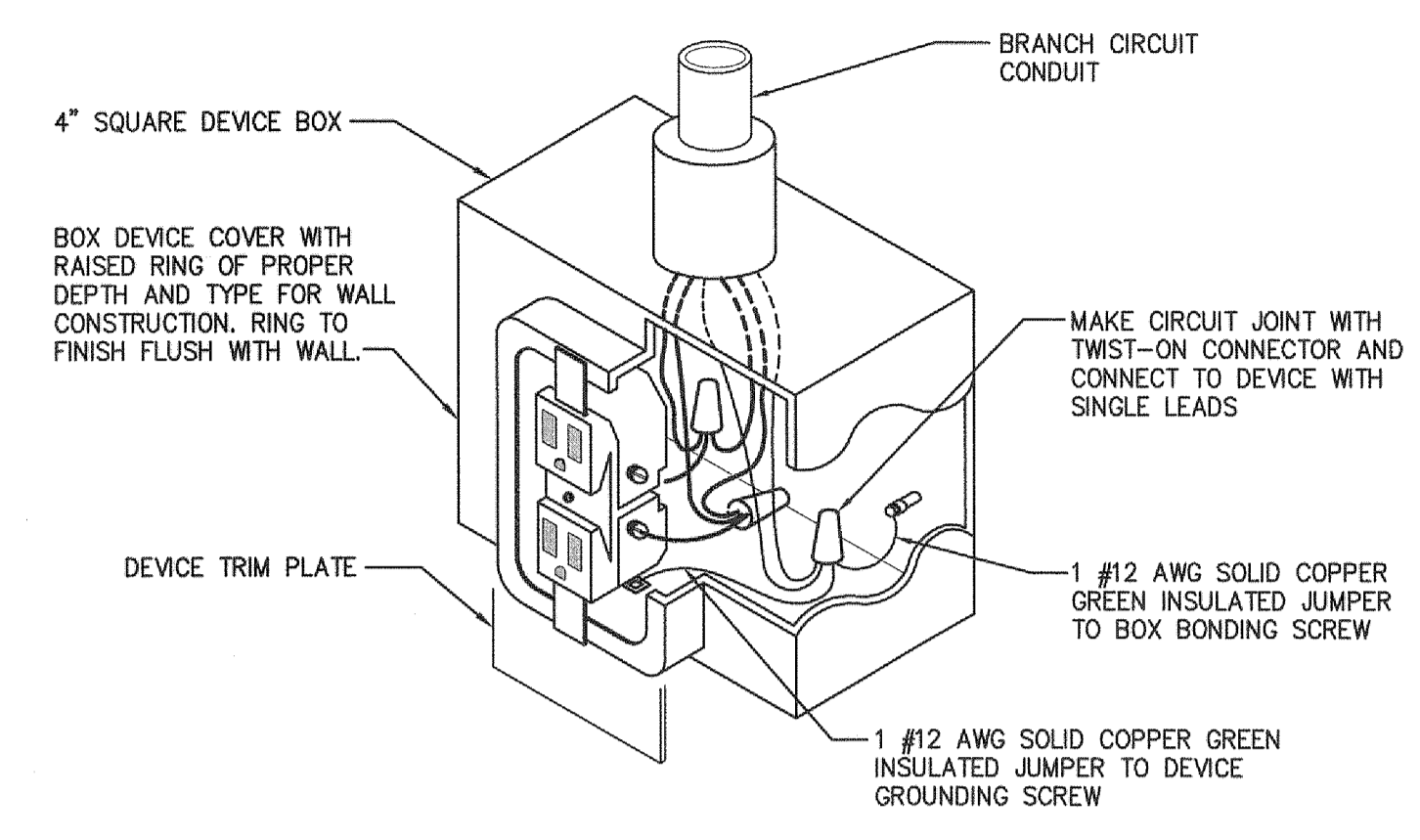
Carlie C's IGA  
 333 N. Raleigh Street  
 Angier, NC 27501

DATE: 31 October 2019  
 DRAWN BY: JS  
 SCALE: 1/8" = 1'-0"

**E-1**



**1**  
E-2  
**ELECTRICAL PLAN - POWER & RECEPTACLE LAYOUT**  
SCALE: 1/8"=1'-0"



**DETAIL NO. 1**  
RECEPTACLE GROUNDING DIAGRAM  
SCALE: NTS

ELECTRICAL LEGEND		
SYM.	DESCRIPTION	REMARKS
Ⓚ	JUNCTION BOX	DOUBLE GANG UNO
Ⓛ	NON-FUSED DISCONNECT	-
Ⓜ	FUSED DISCONNECT	-
Ⓞ	OCCUPANCY SENSOR	-
Ⓢ	SWITCH	MOUNT 48" TOD AFF
Ⓢ <sub>D</sub>	FLUORESCENT DIMMER SWITCH	MOUNT 48" TOD AFF COORDINATE WITH BALLAST
Ⓢ <sub>3</sub>	3 WAY SWITCH	MOUNT 48" TOD AFF
Ⓢ <sub>4</sub>	4 WAY SWITCH	MOUNT 48" TOD AFF
Ⓡ	RECEPTACLE	MOUNT 16" BOD AFF
Ⓡ <sub>IG</sub>	UPS RECEPTACLE	MOUNT 16" BOD AFF
Ⓡ <sub>IS</sub>	ISOLATED GROUND RECEPTACLE	MOUNT 16" BOD AFF
Ⓡ <sub>GF</sub>	GROUND FAULT RECEPTACLE	MOUNT 6" ABV. COUNTER
Ⓡ <sub>WP</sub>	GROUND FAULT, WEATHERPROOF RECEPT.	MOUNT 24" BOD AFG
Ⓡ <sub>CLG</sub>	CEILING RECEPTACLE	-
Ⓡ <sub>S</sub>	SPECIAL RECEPTACLE	-
Ⓡ <sub>FLR</sub>	FLOOR RECEPTACLE	-
Ⓡ <sub>DD</sub>	DOUBLE DUPLEX RECEPTACLE	-
Ⓡ <sub>CT</sub>	CIRCUIT IDENTIFIER	-

NOTES:  
 1. STANDARD MOUNTING HEIGHTS OF DEVICES SHALL BE AS LISTED IN LEGEND. SPECIFIC MOUNTING HEIGHT OF A DEVICE MAY VARY AS NOTED ON PLANS.  
 2. E.C. SHALL COORDINATE COLOR SELECTION OF DEVICES AND COVERPLATES WITH ARCHITECT, OWNER AND/OR G.C.  
 3. PROVIDE EQUIPMENT SHOWN BY HUBBELL, PASS & SEYMOUR, COOPER WIRING DEVICES, OR EQUAL PRODUCT.

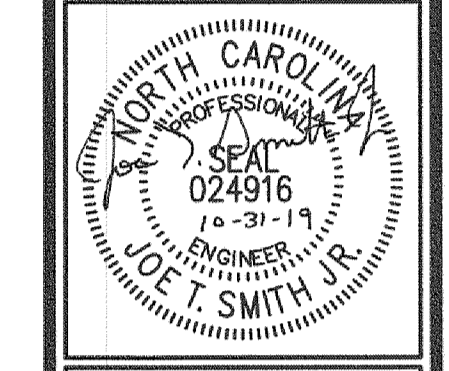
ABBREVIATIONS:  
 G.C. GENERAL CONTRACTOR  
 P.C. PLUMBING CONTRACTOR  
 M.C. MECHANICAL CONTRACTOR  
 E.C. ELECTRICAL CONTRACTOR  
 AFF ABOVE FINISHED FLOOR  
 AFG ABOVE FINISHED GRADE  
 UNO UNLESS NOTED OTHERWISE  
 Ⓡ CENTERLINE OF DEVICE  
 BOD BOTTOM OF DEVICE  
 TOD TOP OF DEVICE

PANELBOARD SCHEDULE									
EXISTING PANEL "A"	SURFACE MOUNT BOTTOM FEED	SERVICE ENTRANCE RATED				400 AMP		36, 4 WIRE	
		120/208 VOLT				400 AMP (BUS RATING)			
NEMA 1									
LOAD SERVED	WIRE SIZE	CKT NO.	PHASE	WIRE SIZE	LOAD SERVED				
LIGHTING-SALES	12	1	20	20	2	12	LIGHTING-SALES		
LIGHTING-SALES	12	3	20	20	4	12	LIGHTING-SALES		
LIGHTING-SALES	12	5	20	20	6	12	LIGHTING-STOCK ROOM		
LIGHTING-EXTERIOR	12	7	20	20	8	10			
		9			10	10			
		11			12	10			
		13			14	10			
		15			16	10			
		17			18	10			
		19			20	10			
		21			22	10			
		23			24	10			
		25			26	10			
		27			28	10			
		29			30	12	DUCTLESS UNIT-1		
		31	EXISTING		32				
EXISTING HP-1	-	33			34				
		35			36				
		37	EXISTING	EXISTING	38				
PANEL-B	-	39			40		EXISTING HP-2		
		41			42				

PANELBOARD SCHEDULE									
EXISTING PANEL "B"	SURFACE MOUNT BOTTOM FEED	SERVICE ENTRANCE RATED				200 AMP		36, 4 WIRE	
		120/208 VOLT				200 AMP (BUS RATING)			
NEMA 1									
LOAD SERVED	WIRE SIZE	CKT NO.	PHASE	WIRE SIZE	LOAD SERVED				
BEVERAGE STATION	12	1	20	20	2	10	HOT BAR		
BEVERAGE STATION	12	3	20	20	4	8	WING BAR		
BEVERAGE STATION	12	5	20	20	6	12	SALAD BAR		
BEVERAGE STATION	12	7	20	20	8	12	MEALS TO GO		
PIZZA CASE	12	9	20	20	10	12	PIZZA OVEN		
COFFIN CASE	12	11	20	20	12	12	DAIRY CASES		
FROZEN FOOD CASE	12	13	20	20	14	12	DAIRY CASES		
HOT FOOD BAR	12	15	20	20	16	12	DAIRY CASE CONDENSER		
		17	20	20	18	12	BEER CAVE EVAPORATOR		
BEER CAVE CONDENSOR	8	19	20	20	22	12	BEER CAVE EVAPORATOR		
P.O.S. RECEPTACLE	12	21	20	20	24	12	BEER CAVE EVAPORATOR		
		25			26				
		27			28				
		29			30				
		31			32				
		33			34				
		35			36				
		37			38				
		39			40				
		41			42				

NOTES: 1. VERIFY CONDUCTOR AND BREAKER SIZE WITH EQUIPMENT MANUFACTURER.  
 2. INSTALL BREAKER LOCKOUT DEVICES FOR ALL APPLIANCE AND EQUIPMENT CIRCUITS.

SMITH ENGINEERING AND DESIGN, P.A.  
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 Fax: 919.736.2142



**G & G BUILDERS, INC.**  
 1603 S. HOLLYBROOK RD.  
 WENDELL, NC 27591

REV. NO.	DATE	DESCRIPTION

**Carlie C's IGA**  
 333 N. Raleigh Street  
 Angier, NC 27501

DATE: 31 October 2019  
 DRAWN BY: JS  
 SCALE: 1/8" = 1'-0"

**E-2**