OFFICE CHANGE OF USE 371 ARCHIE STREET

SPRING LAKE, N.C. 28390

GENERAL NOTES

THE FOLLOWING SPECIFICATIONS ARE AN OUTLINE OF MINIMUM REQUIREMENTS AND THEIR APPLICATION. MANUFACTURER SPECIFICATIONS AND LOCAL CODE REQUIREMENTS, WHEN IN EXCESS OF MINIMUM SPECIFICATION, SHALL CONTROL.

- THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE PRIOR TO BEGINNING THIS PROJECT AND REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE STARTING THE WORK. THE FAILURE TO DO SO WILL IN NO WAY RELIEVE THE CONTRACTOR OF FURNISHING ALL MATERIALS AND PERFORMING ALL WORK REQUIRED FOR COMPLETION OF THE WORK IN CONFORMANCE WITH THE DRAWINGS OR AS REQUIRED BY SITE CONDITIONS. CONTRACTORS SHALL ASSUME RESPONSIBILITY FOR ERRORS THAT ARE NOT REPORTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO CHECK AND COORDINATE DIMENSIONS CLEARANCES, ETC. WITH THE WORK OF ALL OTHER TRADES.
- 3. ALL SUBSTITUTIONS AND/OR CHANGES AFFECTING THE DESIGN OF THIS STRUCTURE SHALL BE SUBJECT TO ARCHITECT AND ENGINEER APPROVAL.
- 4. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH NATIONAL, STATE \$ LOCL CODES.
- CONTRACTOR SHALL COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS IN FLOORS, WALLS AND ROOF CONSTRUCTION AS REQUIRED WHETHER SHOWN OR NOT ON THE ARCHITECTURAL AND/OR OTHER DRAWINGS AND PROVIDE LINTELS OR HEADERS AS REQUIRED.
- 6. WHERE ALUMINUM IS ADJACENT TO STEEL, PROVIDE ADEQUATE BARRIER TO PREVENT OXIDATION OF ALUMINUM. TYPICAL FOR OTHER DISSIMILAR METALS.
- ALL ACCESSORIES NOT SHOWN ON THE DRAWINGS OR SPECIFICALLY CALLED FOR SUCH AS BLOCKING, BULKHEADS, CATS, FASTENERS, FLASHINGS, MISCELLANEOUS TRIM, ETC., REQUIRED AND NECESSARY AND CONSIDERED GENERAL PRACTICE FOR CONSTRUCTION SHALL BE CONSIDERED PART OF THE BUILDING CONTRACT
- 8. WHEN THE PROJECT IS AN ADDITION OR REMODELING JOB, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS (TRIM, TEXTURES, MATERIALS, METHODS OF CONSTRUCTION, ETC.) AND MATCH EXISTING UNLESS OTHERWISE NOTED.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR THE SAFETY OF THE EXISTING STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION REQUIRED TO COMPLETE THE WORK WHETHER SHOWN ON DRAWINGS NOT INCLUDING OR LIMITED TO PARTITIONS FLOORS FLOOR COVERINGS, CEILINGS, ROOF AND/OR STRUCTURE, LIGHTING, ELECTRICAL PLUMBING, HYAC, ETC., AS REQUIRED. REPLACE AND RELOCATE AS REQUIRED.
- 10. CONTRACTOR SHALL INSURE COMPATIBILITY OF THE BUILDING WITH ALL SITE REQUIREMENTS.
- 11. THE CONTRACTOR SHALL FURNISH OWNERS WITH INSURANCE CERTIFICATION AND WAIVERS OF MECHANICS LIENS BEFORE PROCEEDING WITH THE WORK
- 12. ALL MATERIALS, WORK AND EQUIPMENT AND ITS INSTALLATION BY THE CONTRACTOR SHALL BE IN COMPLIANCE WITH THE MOST RECENT VERSIONS OF THE CODES LISTED IN THIS SET, AND ALL LOCAL CODES AND CURRENT ORDINANCES.
- 13. CONTRACTOR SHALL INSTALL ALL MANUFACTURED ITEMS, MATERIALS AND EQUIPMENT IN STRICT ACCORDANCE WITH THE MANUFACTURERS RECOMMENDED SPECIFICATIONS, EXCEPT THE SPECIFICATIONS HEREIN, WHERE MORE STRINGENT SHALL BE COMPLIED WITH,
- 14. THE CONTRACTOR SHALL PROVIDE PROTECTION FOR OWNER AND THE GENERAL PUBLIC IN AND AROUND THE CONSTRUCTION AREA. ADEQUATE BARRIERS SHALL BE PROVIDED TO EXERCISE CONTROL OF SAFE INGRESS AND EGRESS OF CONSTRUCTION AREA.
- 15. WORK NOT IDENTIFIED IN A CERTAIN LOCATION ON A DRAWING BUT RESPONSIBLY IMPLIED TO BE SIMILAR TO THAT SHOWN IN A CORRESPONDING LOCATION SHALL BE CONSIDERED TO BE PART OF THIS CONTRACT.
- 16. ITEMS IDENTIFIED AS "EXISTING" ARE EXISTING TO REMAIN (U.N.O.)
- 17. EXISTING ITEMS TO REMAIN THAT ARE DAMAGED OR DISTURBED AS A RESULT OF WORK PERFORMED UNDER THIS CONTRACT SHALL BE REPAIRED AND/OR REPLACED TO THE SATISFACTION OF THE ARCHITECT AND WITHOUT ADDITIONAL COST TO THE OWNER.
- 18. THE CONTRACTOR SHALL LEGALLY DISPOSE OF ALL UNUSED MATERIAL AND DEBRIS OFF THE PREMISES.
- PROVIDE CONTROL OR EXPANSION JOINTS IN ALL CONSTRUCTION AS REQUIRED BY JOB 19. CONDITION CODES AND MANUFACTURER'S RECOMMENDATIONS.
- 20. ALL ELECTRICAL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE, THE FIRE PROTECTION ASSOCIATION AND ALL GOVERNING CODES AND ADMINISTRATION BY LOCAL BUILDING OFFICIALS AND SHALL BE CONSIDERED PART OF THE CONSTRUCTION DOCUMENTS.
- PROVIDE ICE DAM PROTECTION AT ALL ROOF PENETRATIONS. 21.
- 22. PROVIDE JOIST HANGERS AT HEADERS AND TAILS OF ALL FRAMING CONNECTIONS.
- RADON TESTING AND CORRECTIVE MEASURES (IF ANY) ARE THE RESPONSIBILITY OF THE 23. OWNER.
- 24. ALL DIMENSIONS SHOULD BE READ OR CALCULATED AND NEVER SCALED. 25. ALL INTERIOR AND EXTERIOR FINISH AND COLOR SELECTION ARE THE RESPONSIBILITY OF THE CONTRACTOR AND OWNER, AND SHALL COMPLY WITH CODES FOR FLAME SPREAD RATING AND SMOKE GENERATION FACTOR.
- 26. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS NECESSARY FOR THE COMPLETION OF THE WORK.
- 27. THE ARCHITECT AND/OR ENGINEER SHALL HAVE NO RESPONSIBILITY FOR THE SAFETY OF ANY WORKMAN OR CONTRACTOR. THIS RESPONSIBILITY SHALL BE THAT OF EACH WORKMAN AND /OR CONTRACTOR.
- 28. ALL HYAC WORK SHALL BE IN STRICT ACCORDANCE WITH NORTH CAROLINA MECHANICAL CODE AND ALL APPLICABLE ORDINANCES IN EFFECT.
- 29. ALL DUCTWORK, WIRING AND PLUMBING SHALL BE CONCEALED WITHIN WALLS AND /OR CEILING IN FINISHED SPACES, U.O.N.,
- 30. HEATING, VENTILATING, AIR CONDITIONING (HVAC), PLUMBING AND ELECTRICAL DESIGN IS BY OTHERS.
- 31. PROVIDE MOISTURE-RESISTANT GYPSUM BOARD IN BATHROOMS

GENERAL NOTES FOR DEMOLITION:

- 1. THE OWNER HAS THE RIGHT OF FIRST REFUSAL FOR ALL EQUIPMENT AND FIXTURES (CABINETS, SHELVING, ETC.) REMOVED UNDER CONTRACT. IF THE OWNER DOES NOT EXERCISE THIS RIGHT FOR AN INDIVIDUAL PIECE OF EQUIPMENT, THE GENERAL CONTRACTOR SHALL REMOVE SAID EQUIPMENT FROM SITE.
- 2. MARK LOCATION OF ALL UTILITIES TO REMAIN PRIOR TO DEMOLITION. 3. NOTIFY ARCHITECT/OWNER PRIOR TO START OF DEMOLITION WORK.
- 4. CEASE OPERATIONS IMMEDIATELY IF STRUCTURE APPEARS TO BE IN DANGER. NOTIFY ARCHITECT/OWNER IMMEDIATELY. DO NOT RESUME OPERATIONS UNTIL DIRECTED.
- 5. MAINTAIN PROTECTED EGRESS AND ACCESS TO WORK.
- 6. DISCONNECT, CAP AND IDENTIFY DESIGNATED UTILITIES WITHIN DEMOLITION AREAS 1. ALL DEMOLITION IS TO BE DONE IN AN ORDERLY AND CAREFUL MANNER. PROTECT EXISTING
- SUPPORTING STRUCTURAL MEMBERS. 8. REMOVE ALL DEMOLISHED MATERIALS FROM SITE AND LEGALLY DISPOSE.
- 9, UTILIZE OSHA SAFETY PRECAUTIONS AS REQUIRED. 10. ALL NEW EQUIPMENT MUST MEET LOCAL NOISE ORDINANCES.
- IL ITEMS SHOWN TO BE DEMOLISHED ON PLAN ARE FOR REFERENCE ONLY. THE CONTRACTOR MUST INSPECT THE SITE AND COMPLETELY FAMILIARIZE HIM/HERSELF WITH THE ITEMS TO BE REMOVED. QUESTIONS ABOUT ITEMS TO BE REMOVED OR TO REMAIN MUST BE GIVEN TO THE ARCHITECT IN WRITING PRIOR TO REMOVAL.
- 12. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCY OR DEVIATION BETWEEN DWGS. AND ANY FIELD VERIFIED CONDITIONS PRIOR TO COMMENCING WORK.
- 13. DO NOT SCALE DWGS, ALL MEASUREMENTS MUST BE CONFIRMED IN FIELD, DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.
- 14. ALL PLUMBING, MECHANICAL OR ELECTRICAL DISCONNECTS SHALL BE MADE BY THE RESPECTIVE TRADES. REFER TO DEMOLITION DRAWINGS OF HYAC, PLUMBING AND ELECTRICAL TRADES FOR SPECIFIC SCOPE OF DEMOLITION FOR THESE TRADES. NOTE: IF THERE IS AN EXISTING FIRE ALARM SYSTEM, IT SHALL NOT BE INTERRUPTED NOR SHALL EXISTING FIRE ALARM DEVICES BE REMOVED UNTIL NEW DEVICES ARE READY FOR SWITCHOVER.
- 15. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO PROTECT PORTIONS OF EXISTING CONSTRUCTION WHICH ARE ADJACENT TO AREAS TO BE DEMOLISHED. MAKE ALL CUTS AS NEATLY AS POSSIBLE.
- 16. IF NOT OTHERWISE NOTED OR DETAILED, ALL SURFACES LEFT ROUGH OR UNFINISHED BY DEMOLITION, AND WHICH ARE EXPOSED TO VIEW, SHALL BE PATCHED TO MATCH ADJACENT FINISHES TO PROVIDE A UNIFORM APPEARANCE W/ REGARD TO SIZE, SHAPE, COLOR, TEXTURE AND MATERIAL
- 17. THE GENERAL CONTRACTOR SHALL PROVIDE A PHYSICAL BARRIER TO CONTAIN DUST AROUND THE DEMOLITION AREA AND SHALL MAKE EVERY EFFORT TO KEEP THE DEMOLITION SITE AND SURROUNDING AREAS AS CLEAN AS POSSIBLE.
- 18. EACH CONTRACTOR SHALL PROVIDE ADEQUATE FIRE PROTECTION DURING THE COURSE OF THE WORK IN ACCORDANCE WITH THE GENERAL REQUIREMENTS AND AUTHORITIES HAVING JURISDICTION.
- 19. ALL WINDOWS ARE EXIST'S EXTERIOR WINDOWS TO REMAIN, UNLESS OTHERWISE NOTED. TYPICAL 20. ALL EXISTING LOOSE FURNITURE IN SCHEDULED AREAS OF DEMOILITION SHALL BE PROTECTED DURING
- 21. CONTRACTOR TO VERIFY LOCATION OF ALL EXIST'G SWITCHES AND OUTLETS. REFER TO RCP FOR PROPOSED LOCATION OF NEW SWITCHES AND OUTLETS. EXIST'G ELECTRICAL OUTLETS AND SWITCHES ARE TO BE REMOVED AS REQUIRED FOR NEW CONSTRUCTION. JUNCTION BOXES NOT TO BE USED SHOULD BE REMOVED IN THEIR ENTIRETY.

PROJECT INFORMATION

THE BUILDING SHALL BE IN COMPLIANCE WITH THE MOST RECENT VERSION OF THE FOLLOWING NORTH CAROLINA EDITION CODES, WHERE APPLICABLE TO THE SCOPE OF WORK.

2018 BUILDING CODE

- 2018 EXISTING BUILDING CODE
- 2018 ENERGY CONSERVATION CODE 2018 FIRE CODE
- 2018 FUEL GAS CODE

DEMOLITION.

- 2018 MECHANICAL CODE
- 2018 PLUMBING CODE
- 2020 ELECTRIC CODE 2009 ICC/ANSI A117.1

SCOPE OF WORK:

THIS BUILDING IS AN EXISTING PRE-MANUFACTURED RESIDENCE, I STORY, OVER CRAWL SPACE (R-5) USE). THE NEW SCOPE OF WORK PROPOSES A CHANGE OF USE TO A OFFICE (B-USE),

CLASSIFICATION OF WORK:

EXISTING USE:

RESIDENTIAL (R-5)

PROPOSED USE: OFFICE (B)-BUSINESS

CONSTRUCTION CLASSIFICATION (NCBC 602): TYPE VB (COMBUSTIBLE UNPROTECTED)- NON-SPRINKLERED

BUILDING AREA CALCULATION EXIST'G FIRST FLOOR AREA

CHANGE OF OCCUPANCY AND ALTERATION LEVEL 3 (NCEBC CHAPTER 9 & 10)

APPROX. 930 S.F.

CHANGE OF OCCUPANCY (NCEBC CHAPTER 10)

STRUCTURAL (1007.1) GRAVITY LOADS BUILDINGS OR PORTIONS SUBJECT TO A CHANGE IN OCCUPANCY WHERE SUCH CHANGE IN THE

NATURE OF THE OCCUPANCY RESULTS IN HIGHER UNIFORM OR CONCENTRATED LOADS BASED ON TABLE 1607.1 OF THE NCBC, SHALL COMPLY W/ GRAVITY LOAD PROVISIONS OF THE NCBC. EXCEPTION 1: STRUCTURAL ELEMENTS WHOSE STRESS IS NOT INCREASED BY MORE THAN 10 PERCENT

ELECTRICAL (1008.3) SERVICE UPGRADE

WHERE THE OCCUPANCY OF THE EXISTING BUILDING IS CHANGED SUCH THAT THE NEW LOAD REQUIRES AN INCREASE IN SERVICE, THE ELECTRICAL SERVICE SHALL BE UPGRADED TO MEET THE REQUIREMENTS OF NFPA 10 FOR THE NEW OCCUPANCY.

ELECTRICAL (1008.4) NUMBER OF ELECTRICAL OUTLETS WHERE THE OCCUPANCY OF THE EXISTING BUILDING IS CHANGED, THE NUMBER OF OUTLETS SHALL COMPLY WITH NEPA 10 FOR THE NEW OCCUPANCY.

MECHANICAL (1009.1) WHERE THE OCCUPANCY OF THE EXISTING BUILDING IS CHANGED SUCH THAT THE NEW OCCUPANCY IS SUBJECT TO DIFFERENT KITCHEN EXHAUST REQUIREMENTS OR TO INCREASED MECHANICAL VENTILATION REQUIREMENTS IN ACCORDANCE WITH THE IMC, THE NEW OCCUPANCY SHALL COMPLY WITH THE RESPECTIVE IMC PROVISIONS PLUMBING (1010.1) INCREASED DEMAND

WHERE THE OCCUPANCY OF THE EXISTING BUILDING IS CHANGED SUCH THAT THE NEW OCCUPANCY IS SUBJECT TO INCREASED OR DIFFERENT PLUMBING FIXTURE REQUIREMENTS OR TO INCREASED WATER SUPPLY REQUIREMENTS IN ACCORDANCE WITH IPC, THE NEW OCCUPANCY SHALL COMPLY WITH THE INTENT OF THE RESPECTIVE IPC PROVISIONS.

COMPLIANCE WITH CHAPTER 9 (1012.1.1) WHERE ALTERATION WORK IS REQUIRED BY THE CHANGE OF OCCUPANCY CLASSIFICATION, THE REQUIREMENTS OF CHAPTER 9 SHALL BE APPLICABLE THROUGHOUT THE BUILDING FOR THE MOST RESTRICTIVE OCCUPANCY CLASSIFICATION.

TABLE 1012.2.1 SPRINKLER HAZARD CATEGORY

EXISTING USE CLASSIFICATION R-5: RELATIVE HAZARD: 6 PROPOSED USE CLASSIFICATION B: RELATIVE HAZARD: 6

WHEN A CHANGE IN USE IS MADE TO AN EQUAL OR LESSER HAZARD CATEGORY, THERE IS NO REQUIREMENT TO INSTALL AN AUTOMATIC FIRE SUPPRESSION SYSTEM

TABLE 1012.4 MEANS OF EGRESS HAZARD CATEGORY

EXISTING USE CLASSIFICATION R-5: RELATIVE HAZARD: 5 PROPOSED USE CLASSIFICATION B: RELATIVE HAZARD: 4

WHEN A CHANGE IN USE IS MADE TO A HIGHER HAZARD CATEGORY, THE MEANS OF EGRESS SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 10 OF THE NCBC.

EXCEPTIONS: 2. EXISTING STAIRWAYS, INCLUDING HANDRAILS AND GUARDS COMPLYING ITH THE REQUIREMENTS OF CHAPTER 9 SHALL BE PERMITTED FOR CONTINUED USE SUBJECT TO APPROVAL OF THE CODE OFFICIAL

1012.4.3 EGRESS CAPACITY

EGRESS CAPACITY SHALL MEET OR EXCEED THE OCCUPANT LOAD SPECIFIED IN THE NCBC FOR THE NEW OCCUPANCY.

TABLE 1012.5 HEIGHTS AND AREAS HAZARD CATEGORY

EXISTING USE CLASSIFICATION R-5: RELATIVE HAZARD: 4 PROPOSED USE CLASSIFICATION B: RELATIVE HAZARD: 4

WHEN A CHANGE IN USE IS MADE TO AN EQUAL OR LESSER HAZARD CATEGORY THE HEIGHT AND AREA OF THE EXISTING BUILDING SHALL BE DEEMED ACCEPTABLE.

TABLE 1012.6 EXPOSURE OF EXTERIOR WALLS CATEGORY EXISTING USE CLASSIFICATION R-5: RELATIVE HAZARD: 3 PROPOSED USE CLASSIFICATION B: RELATIVE HAZARD: 3

WHEN A CHANGE IN USE IS MADE TO AN EQUAL OR LESSER HAZARD CATEGORY, EXISTING EXTERIOR WALLS, INCLUDING OPENINGS, SHALL BE ACCEPTED.

1012.9 ACCESSIBILITY

(1012.9.2) COMPLETE CHANGE OF OCCUPANCY

WHERE AN ENTIRE BUILDING UNDERGOES OF CHANGE OF OCCUPANCY, IT SHALL COMPLY WITH SECTION 1012.9.1, AND SHALL HAVE ALL THE FOLLOWING ACCESSIBLE FEATURES: . AT LEAST ONE ACCESSIBLE BUILDING ENTRACE

2. AT LEAST ONE ACCESSIBLE ROUTE FROM AN ACCESSIBLE ENTRANCE TO PRIMARY FUNCTION AREAS.

- 3. SIGNAGE COMPLYING WITH SECTION IIII OF THE IBC
- 4. ACCESSIBLE PARKING, WHERE PARKING IS PROVIDED 5. AT LEAST ONE ACCESSIBLE PASSENGER LOADING ZONE, WHERE
- LOADING ZONES ARE PROVIDED
- 6. AT LEAST ONE ACCESSIBLE ROUTE CONNECTING ACCESSIBLE

PARKING AND ACCESSIBLE LOADING ZONES TO AN ACCESSIBLE ENTRANCE WHERE IT IS TECHNICALLY INFEASIBLE TO COMPLY WITH THE NEW CONSTRUCTION STANDARDS FOR ANY OF THESE REQUIREMENTS FOR A CHANGE OF GROUP OCCUPANCY, THE ABOVE ITEMS SHALL CONFORM TO THE REQUIREMENTS TO THE MAXIMUM EXTENT TECHNICALLY FEASIBLE.

ALTERATION LEVEL 3 (NCEBC CHAPTER 9)

ACCESSIBILITY (806.2) ALTERATIONS AFFECTING AN AREA OF PRIMARY FUNCTION

WHERE AN ALTERATION AFFECTS THE ACCESSIBILITY TO A, OR CONTAINS AN AREA OF PRIMARY FUNCTION, THE ROUTE TO THE PRIMARY FUNCTION AREA SHALL BE ACCESSIBLE. THE ACCESSIBLE ROUTE TO THE PRIMARY FUNCTION AREA SHALL INCLUDE TOILET AND DRINKING FOUNTAINS SERVING THE AREA OF PRIMARY FUNCTION.

EXCEPTION 1: THE COSTS OF PROVIDING THE ACCESSIBLE ROUTE ARE NOT REQUIRED TO EXCEED 20 PERCENT OF THE COSTS OF THE ALTERATIONS AFFECTING THE AREA OF PRIMARY FUNCTION.

SINGLE EXIT BUILDINGS (805.3.1)

ONE EXIT IS REQUIRED FROM BUILDINGS IN OCCUPANCY (B) WHEN THE OCCUPANT LOAD OF THE STORY DOES NOT EXCEED 49 AND EXIT ACCESS TRAVEL DISTANCE DOES NOT EXCEED 15 FEET.

DEAD END CORRIDORS (805.6) DEAD END CORRIDORS IN ANY WORK AREA SHALL NOT EXCEED 35 FEET.

GROUP

В

AREA FIRST FLOC

THE TOTAL

TOTAL

TOTAL OCC EGRESS WID MIN. CORRII DOOR SWIN

MIN. DOOR

PANIC HAR FIRE PROTE MANUAL FIR SPRINKLER PORTABLE

PLUMBIN 10 (PER OC

<u>FROM TABL</u> WATER CLC LAVATORIE

DRINKING F

SERVICE SI

403.2 SEPA EXCE SPACES WIT 30 OR FEWE

1109.2 TOILE EXCE SINGLE LOC AT EACH C

NORTH CAROLINA BUILDING CODE

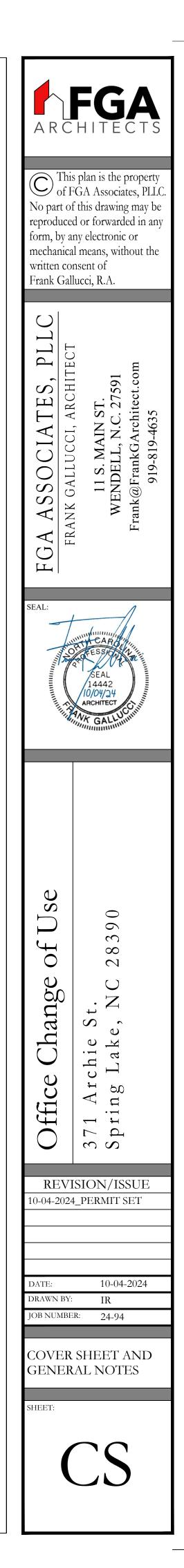
INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY: (TABLE 803.11)

-	NON-SPRINKLERED				
5	EXIT ENCL. AND EXIT PASSAGEWAYS	CORRIDORS	ROOMS AND ENCLOSED SPACES		
	А	в	С		

OCCUPANCY LOAD: (1004.1.2)

	r						
	FUNCTION	AREA	EGRESS BASIS	OCCUPANT LOAD			
DOR	BUSINESS	93Ø SF	100 SF(GROSS)/OCC	10			
				10			
L OCCUPANT LOAD	OCCUPANT LOAD IS 10.						
CUPANT LOAD:	10	OCCUPAN	тө				
IDTH (1005.3.2):	10	OCCUPANTS	6 = 10x(0.2) = 2" MIN. (SEE EG	RESS PLAN)			
100R WIDTH (1020.2	:): 36	" MIN. (OC	C. LOAD LESS THAN 50)				
NG (1010.1.2.1)	TR	AVEL WHER	. SWING IN THE DIRECTION OF E SERVING AN OCCUPANT LC (FROM THE ROOM THEY SER)	AD OF			
8 WIDTH (1010.1.1):		32" MIN. CLEAR BETWEEN FACE OF DOOR AND STOP (36" DOORS PROVIDED)					
RDWARE (1010.1.10): TECTION SYSTEMS:	NC	NOT REQUIRED FOR (B) USE					
IRE ALARM (907.2.2) (R	EQUIRED)	NO (PROVIDED) NO				
R SYSTEM (903): GROUP B		EQUIRED)	NO (PROVIDED) NO				
E FIRE EXTINGUISHE	R (906): (F	EQUIRED)	TES (PROVIDED) TES				
NG FIXTURE C	ALCULATIC	ON (PLL	MBING CODE 2018	<u>s):</u>			
CC. LOAD ABOVE)							
LE 403.1 (BUSINESS	USE)						
OSETS/URINALS:	I UNISEX (SEE	EXC. BELO	OW) 2 PROVIDED				
ES REQUIRED:	I UNISEX (SEE	EXC. BELC	OW) 2 PROVIDED				
	NOT REQUIRED OF <u>30</u> OR FEW		C. LOAD				
	NOT REQUIRED OF <u>30</u> OR FEW		C. LOAD				
ARATE FACILITIES: EPTION 2: SEPARATE FACILITIES SHALL NOT BE REQUIRED IN STRUCTURES OR ITH A TOTAL OCCUPANT LOAD, INCLUDING BOTH EMPLOYEES AND CUSTOMERS, OF UER.							
<u>ET FACILITIES:</u> EPTION 3: WHERE MULTIPLE SINGLE-USER TOILET ROOMS ARE CLUSTERED AT A ICATION, AT LEAST 50 PERCENT BUT NOT LESS THAN ØNE ROOM FOR EACH USE CLUSTER SHALL BE ACCESSIBLE.							
	`						

	RAWING LIST		
ARC	ARCHITECTURAL		
	COVER SHEET APPENDIX B DEMOLITION PLAN FLOOR PLAN, LIFE SAFETY PLAN AND PARTITION TYPE DESIGN ELEVATIONS AND DETAILS ACCESSIBLE BATHROOM PLAN AND DETAILS		
STRI	ICTURAL		
51	STRUCTURAL PLANS AND DETAILS		
PLUM	1BING, MECHANICAL, ELECTRICAL		
Pl.1 MØ2 Ml.1 EØ1 EØ2 E1.1	MECHANICAL DEMO PLAN MECHANICAL PLAN ELECTRICAL LEGENDS AND NOTES ELECTRICAL DEMO PLAN		

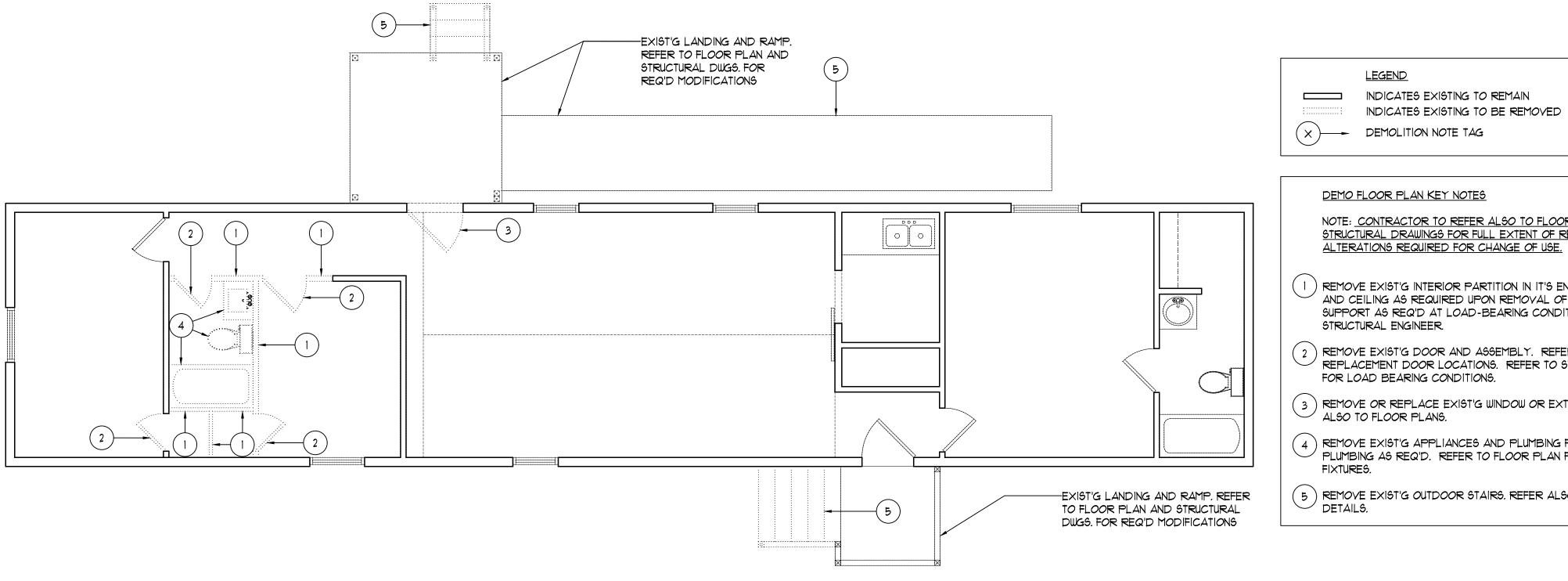


2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS (EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)	Fire District: 🛛 No 🗌 Yes (Pr Special Inspections Required: 🖂	No Yes	l Hazard Area: [🛛 No 🔲 Yes
(Reproduce the following data on the building plans sheet 1 or 2)	FLOOR EXISTING (SQ	Gross Building NEW (SQ FT)	RENO/ALTER	SUB-TOTAL
Name of Project: Office Change of Use	FT) 6 th Floor 5 th Floor		(SQ.FT)	
Address: <u>371 Archie Street / Spring Lake, NC</u> Zip Code <u>28390</u> Owner/Authorized Agent: <u>Harold Moreland</u> Phone (<u>281)889-4825</u> E-Mail <u>harold.moreland@brinedevelopment.com</u>	4 th Floor 3 rd Floor			
Owned By: City/County Private State Code Enforcement Jurisdiction: City County State	2 rd Floor Mezzanine 1 st Floor 930	N/A	930	930
	Basement TOTAL 930	N/A	930	930
CONTACT: DESIGNER FIRM NAME LICENSE # TELEPHONE # E-MAIL Architectural FGA Associates PLLC Frank Gallucci 14442 (919)819-4635 Frank@Frank@Architect.com Civil	Primary Occupancy Classification Assembly A-1 A-2 Business A Educational		AREA	
Consulting, PLLC. Mechanical Sharpe Engineering & Consulting, PLLC. Sprinkler-Standpipe	Factory F-1 Moderate Hazardous H-1 Detonate Institutional I-1 Condition 1-2 Condition 1-3 Condition 1-4 Mercantile		3 Combust 🗌 H-4 3 🗌 4 🗌 5	Health 🗌 H-5 HPM
Other ("Others" should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)	Residential R-1 R-2 Storage S-1 Moderate	R-3 🗌 R-4	High-piled	
2018 NC CODE FOR: New Construction Addition Renovation 1 st Time Interior Completion Shell/Core Phased Construction – Shell/Core Renovation	Parking Garage Utility and Miscellaneous Accessory Occupancy Classification(Incidental Uses (Table 509): Special Uses (Chapter 4 – List Code Se	Open Enclosed (s): ections)	Repair Garag	
2018 NC EXISTING BUILDING CODE: Prescriptive Repair Chapter 14 Alteration: Level I Level II Level III Historic Property Change of Use CONSTRUCTED:(date) N/A ORIGINAL OCCUPANCY(S) (Ch. 3): R-5	Non-Separated Use (508.3) The required type of construction each of the applicable occupand	Yes Separation:	Exception: termined by applying e most restrictive type	the height and area limitations for e of construction, so determined, shall
RENOVATED: (date) N/A CURRENT OCCUPANCY(5) (Ch. 3):E RISK CATEGORY (table 1604.5) Current: I II III IV Proposed: I I II III IV	apply to the entire building. Separated Use (508.4) - See below for area calculations ratios of the actual floor area of	for each story, the area of the f each use divided by the allow	occupancy shall be so vable floor area for ear	uch that the sum of the
BASIC BUILDING DATA	<u>_Actual Area of Occupancy</u> Allowable Area of Occupancy			
Construction Type: I-A II-A III-A IV V-A (check all that apply) I-B II-B III-B V-B	+ +	=		≤ 1.00
Sprinklers: No Partial Yes NFPA 13 NFPA 13R NFPA 13D Standpipes: No Yes Class I III Wet Dry				
2018 NC Administrative Code and Policies Appendix B for Building	2018 NC Administrative Code and Policies		Ар	ppendix B for Building
LOT OR PARKING REA TOTAL # OF PARKING SPACES # OF ACCESSIBLE SPACES PROVIDED TOTAL # ACCESSIBLE REQUIRED PROVIDED REGULAR WITH 5' ACCESS AISLE VAN SPACES WITH 132" ACCESS ACCESSIBLE AISLE Image: Constraint of the state	ENERGY REQUIREMENTS: The following data shall be considered Conservation Code shall also be provi plan data sheet. If performance method the proposed design.	ided. Each Designer shall furn	ibute required to meet ish the required portic	ons of the project information for the
PLUMBING FIXTURE REQUIREMENTS (TABLE 2902,1)	Existing building envelope complies w	ith code: 🗌 No 🛛 Y	es (The remainder of this	section is not applicable)
USE WATERCLOSETS URINALS LAVATORIES SHOWERS DRINKING FOUNTAINS	Exempt Building: 🗌 No 🗌 Ye	es (Provide Code or Statutory referen	nce):	
MALE FEMALE UNISEX MALE FEMALE UNISEX /TUBS REGULAR ACCESSIBLE SPACE EXIST'G 0 0 1 0 0 1 0 0	Climate Zone: 3A			
NEW 0 0 1 0 0 1 0 0 0 REQ'D 0 0 1 0 0 1 0 </td <td></td> <td>rgy Code ☐ Performance HRAE 90.1 ☐ Performance "Other" specify source here)</td> <td>Prescri Prescri</td> <td></td>		rgy Code ☐ Performance HRAE 90.1 ☐ Performance "Other" specify source here)	Prescri Prescri	
	THERMAL ENVELOPE (Prescriptiv			
SPECIAL APPROVALS Special approval: (Local Jurisdiction, Department of Insurance, SCO, DPI, DHHS, ICC, etc., describe below)	Roof/ceiling Assembly (each Description of assem U-Value of total asse R-Value of insulation Skylights in each ass U-Value of Total square footage	bly: mbly: 1: embly:		
	U-Value of Solar heat g	bly: mbly: or doors with glazing) assembly: ain coefficient:		
	Projection fr Door R-Val			
	Walls below grade (each asse Description of assem U-Value of total asse R-Value of insulation	bly:		
	Floors over unconditioned sp Description of assem U-Value of total asse P-Value of insulation	bly:		
	R-Value of insulation Floors slab on grade	1:		
	Description of assem U-Value of total asse			
	R-Value of insulation Horizontal/Vertical r	1:		
•				
2018 NC Administrative Code and Policies Appendix B for Building	Slab Heated: 2018 NC Administrative Code and Policies		Ар	ppendix B for Building

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District Construction and provide the following frame declaration a	<section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>	<section-header><section-header><section-header><section-header><section-header><section-header><section-header><text></text></section-header></section-header></section-header></section-header></section-header></section-header></section-header>	Office Change of Use 371 Archie St. Spring Lake, NC 28390
2018 NC Administrative Code and Policies Appendix B for Building	2018 NC Administrative Code and Policies Appendix B for Building	2018 NC Administrative Code and Policies Appendix B for Building	DATE: 10-04-2024 DRAWN BY: IR JOB NUMBER: 24-94 APPENDIX B BUILDING CODE SUMMARY SHEET: A LO

FGA

ΓΕϹΤS



NOTE: <u>CONTRACTOR TO REFER ALSO TO FLOOR PLANS AND</u> <u>STRUCTURAL DRAWINGS FOR FULL EXTENT OF REPAIRS AND</u> ALTERATIONS REQUIRED FOR CHANGE OF USE.

REMOVE EXIST'G INTERIOR PARTITION IN IT'S ENTIRETY. PATCH FLOOR AND CEILING AS REQUIRED UPON REMOVAL OF PARTITION. PROVIDE SUPPORT AS REQ'D AT LOAD-BEARING CONDITIONS AS PER

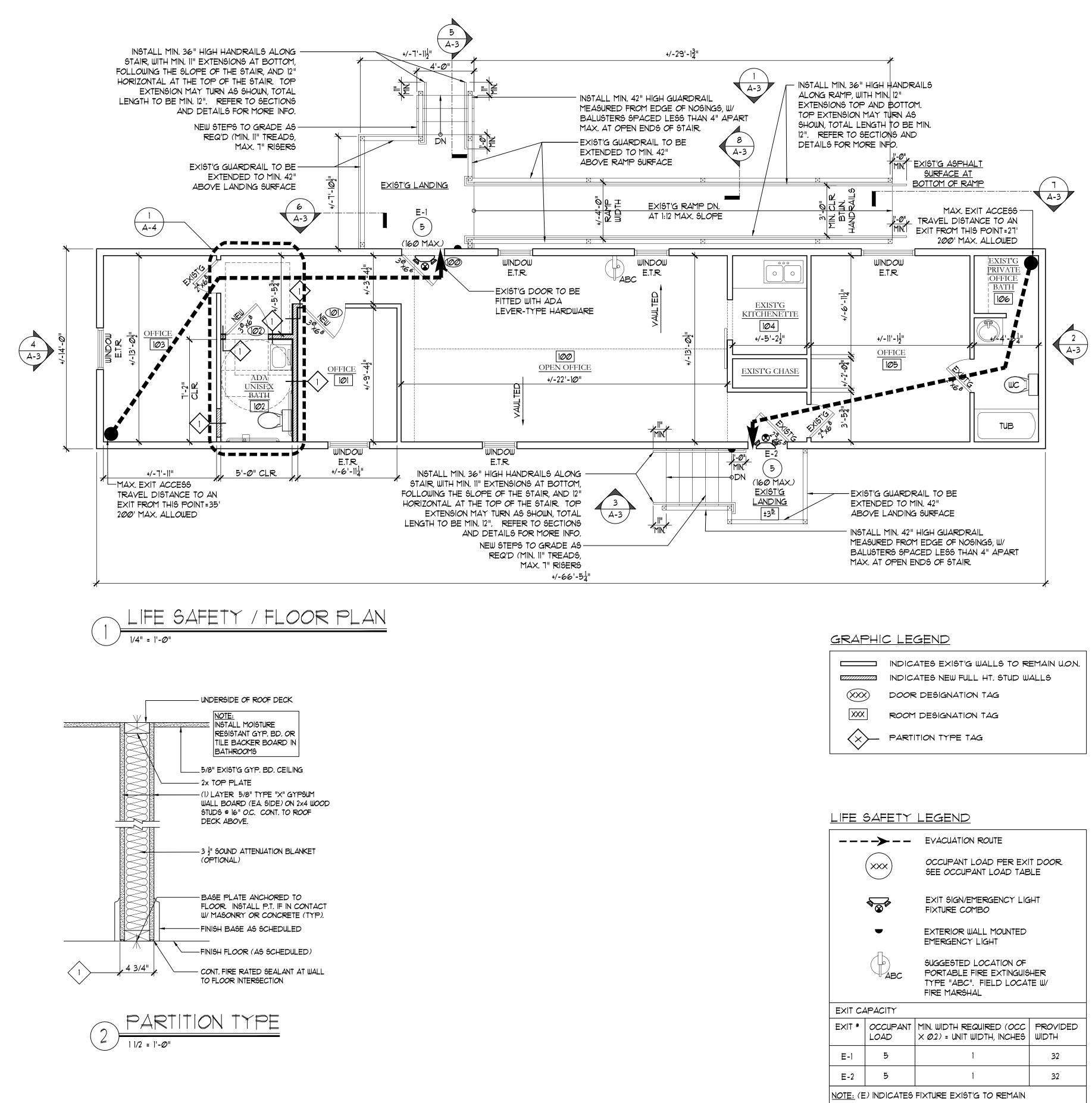
 $\left(\begin{array}{c} 2 \end{array} \right)$ REMOVE EXIST'G DOOR AND ASSEMBLY. REFER TO FLOOR PLAN FOR REPLACEMENT DOOR LOCATIONS. REFER TO STRUCTURAL DRAWINGS

3 REMOVE OR REPLACE EXIST'G WINDOW OR EXTERIOR DOOR. REFER ALSO TO FLOOR PLANS.

(4) REMOVE EXIST'G APPLIANCES AND PLUMBING FIXTURES. CAP EXIST'G PLUMBING AS REQ'D. REFER TO FLOOR PLAN FOR LOCATION OF NEW

(5) REMOVE EXIST'G OUTDOOR STAIRS. REFER ALSO TO PLANS AND

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FGA ASSOCIATES, PLLC FRANK GALLUCCI, ARCHITECT II S. MAIN ST. WENDELL, N.C. 27591 Frank@FrankGArchitect.com 919-819-4635
SEAL:
Office Change of Use 371 Archie St. Spring Lake, NC 28390
REVISION/ISSUE 10-04-2024_PERMIT SET DATE: 10-04-2024 DRAWN BY: IR JOB NUMBER: 24-94 DEMOLITION PLAN
sheet: A-1



	INDICATES EXIST'G WALLS TO REMAIN U.O.N.
	INDICATES NEW FULL HT. STUD WALLS
\times	DOOR DESIGNATION TAG
XXX	ROOM DESIGNATION TAG
\Diamond	PARTITION TYPE TAG

LIFE DAFETT LEGEND				
	$$ \rightarrow $$ Evacuation route			
xxx		OCCUPANT LOAD PER EXIT DOOR. SEE OCCUPANT LOAD TABLE		
A CAR		EXIT SIGN/EMERGENCY LIG FIXTURE COMBO	ŧHŦ	
	-	EXTERIOR WALL MOUNTED EMERGENCY LIGHT		
ABC		SUGGESTED LOCATION OF PORTABLE FIRE EXTINGUISHER TYPE "ABC". FIELD LOCATE W/ FIRE MARSHAL		
EXIT CA	APACITY			
EXIT #	OCCUPANT LOAD	MIN. WIDTH REQUIRED (OCC $\times 0.2$) = UNIT WIDTH, INCHES	PROVIDED WIDTH	
E-1	5	1	32	
E-2	5	1	32	
NOTE: (E) INDICATES FIXTURE EXIST'G TO REMAIN				
<u>TOTAL AREA= 930 SQFT</u> AT 1 OCC/100 SQFT (GROSS)				
THE TOTAL OCCUPANT LOAD IS 10.				

	ROOM FINISH SCHEDULE					
NO.	ROOM	FLOOR	BASE	WALLS	CEILING	REMARKS
		ΓΠΧΛΙΚΥ ΥΙΝΥΓ ΡΙΔΝΙΚ	4" WOOD	DRYWALL - PAINTED	DRYWALL - PAINTED	
100	OPEN OFFICE		•		•	
1Ø1	OFFICE		•		•	
1Ø2	ADA UNISEX BATH		•			
1Ø3	OFFICE	•	•		•	
104	EXIST'G KITCHENETTE		•	•	•	
1Ø5	OFFICE		•	•	•	
106	PRIVATE OFFICE BATH	•	•	•	•	

INTERIOR FINISH SPECIFICATION

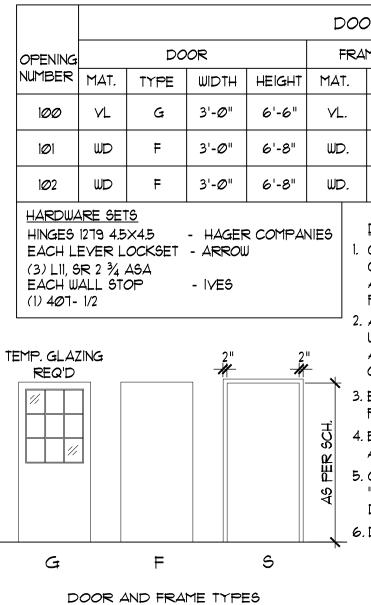
ALL INTERIOR FINISHES TO BE SUBMITTED TO OWNER AND/OR ARCHITECT FOR FINAL COLOR APPROVAL (TYP.) CONTRACTOR TO REMOVE ALL WALLS AS INDICATED AND PATCH ALL EXISTING WALLS, AND FLOORS. NOTE: FLOORING IS TO BE SLIP RESISTANT /W MINIMUM COEFFICIENT OF 0.6 OR GREATER TYPICAL FOR COMMERCIAL INSTALLATION TO MEET ADA REQUIREMENTS FLOORING WALL BASES

4" WOOD (PROFILE T.B.D)

INTERIOR WALL PAINT

CEILING:

BEADBOARD STAINED/ PRIMED AND PAINTED



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mechanical means, without the written consent of Frank Gallucci, R.A. DTC 1657591 Communication DTC 27591 Communication DTC 27591 Communication Communicatio
FGA ASSOCIAT FRANK GALLUCCI, A II S. MAIN S WENDELL, N.C. Frank@FrankGArchi 919-819-463
SEAL 14442 10/04/24 ARCHITECT
Office Change of Use 371 Archie St. Spring Lake, NC 28390
REVISION/ISSUE 10-04-2024_PERMIT SET DATE: 10-04-2024 DRAWN BY:
JOB NUMBER: 24-94 FLOOR PLAN, SCHEDULES AND PARTITION TYPE SHEET:
A-2

2-COATS BENJAMIN MOORE (COLOR AS SELECTED BY OWNER) AND ONE COAT PRIMER (TYP. ALL WALL SURFACES) 2- COATS BENJAMIN MOORE (COLOR AS SELECTED BY OWNER) AND ONE COAT PRIMER- (DOORS AND FRAMES)

2	DR & FRAME SCHEDULE					
,ME					REMARKS	
	TYPE	GL	HDW	LBL	RELIARNS	
	S	TEMP.	LEVER/LATCH		INSTALL KEYED LOCK HARDWARE	
	S		LEVER/LATCH		INSTALL PRIVACY LOCK HARDWARE	
	9		LEVER/LATCH		INSTALL PRIVACY LOCK HARDWARE	

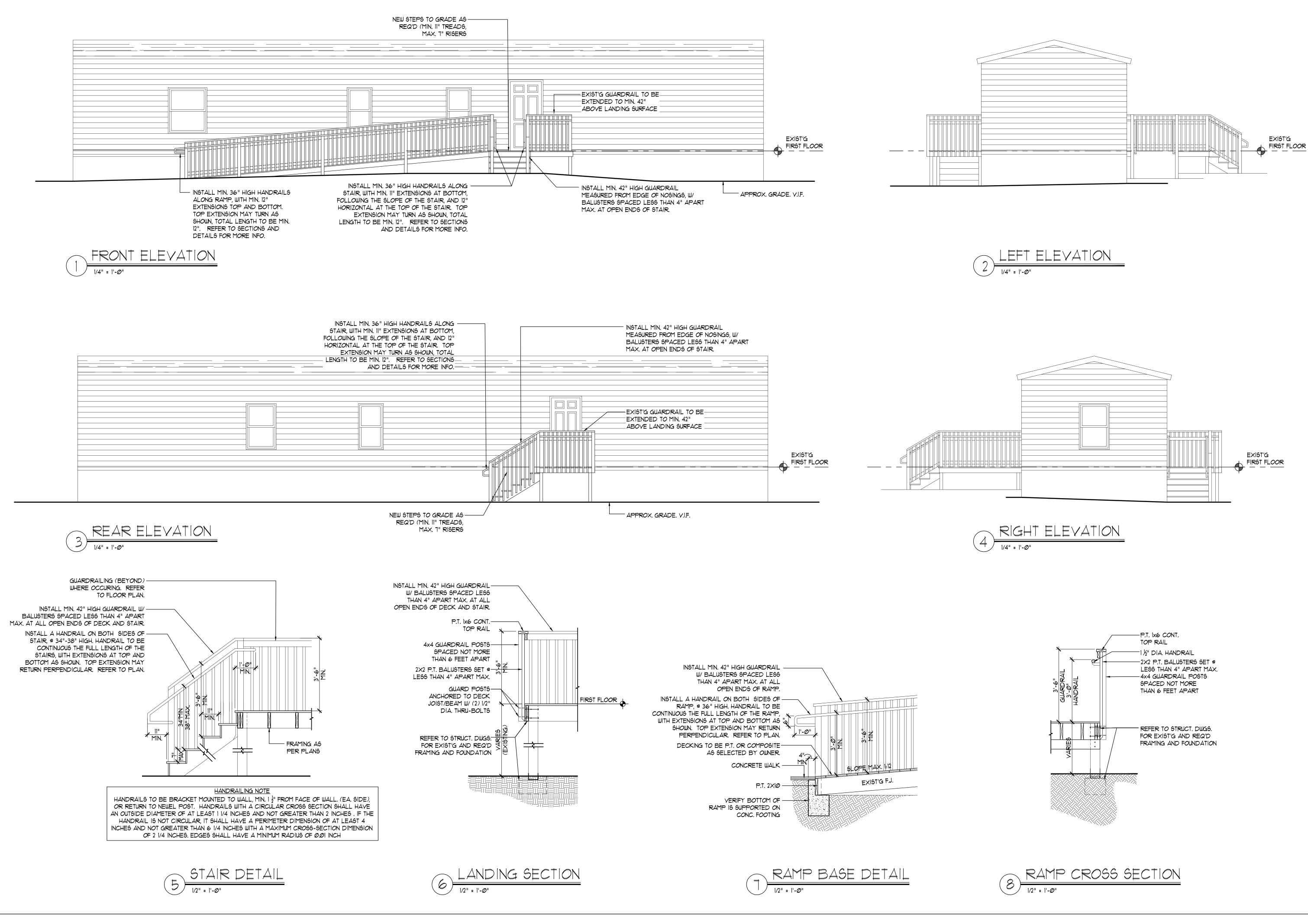
DOOR NOTES: ALL DOOR HARDWARE TO BE ADA APPROVED LEVER TYPE CONTRACTOR TO REVIEW ALL HARDWARE OPTIONS WITH OWNER. CONTRACTOR MUST SUBMIT A COMPLETE DOOR PACKAGE TO OWNER AND ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO ORDER. DOOR PACKAGE TO INCLUDE ALL DOOR TYPES, STYLES, AND HARDWARE. 2. ALL DOOR OPERATION HARDWARE TO BE APPROVED ADA LEVER-TYPE UNLESS STATED OTHERWISE, IN STYLE AND FINISH AS SELECTED AND APPROVED BY OWNER AND ARCHITECT. HINGES TO BE COMMERCIAL GRADE IN FINISH AS SELECTED BY OWNER AND ARCHITECT.

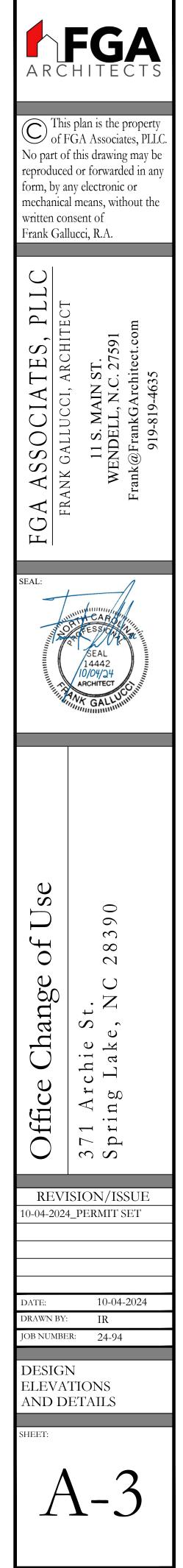
3. EXTERIOR DOORS TO BE INSULATED, FULLY WEATHER-STRIPPED, AND PROVIDED WITH AN ADA SILL (WHERE APPLICABLE).

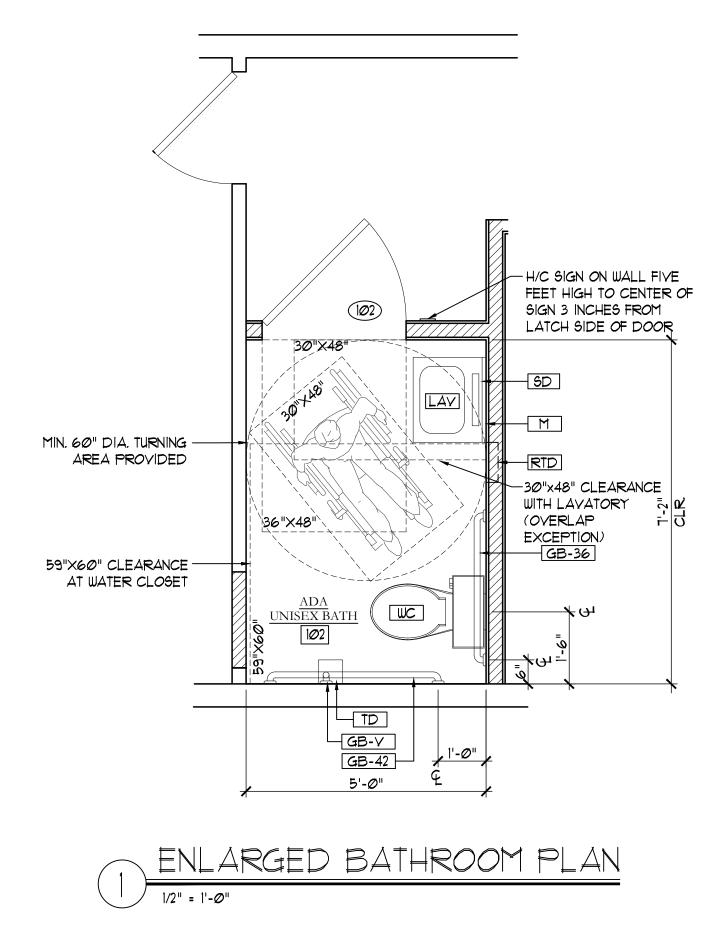
4. BASE BID FOR INTERIOR DOORS IS FLUSH PANEL. CONTRACTOR TO PROVIDE ALLOWANCE FOR UPGRADED DOOR PANELS AS SELECTED BY OWNER.

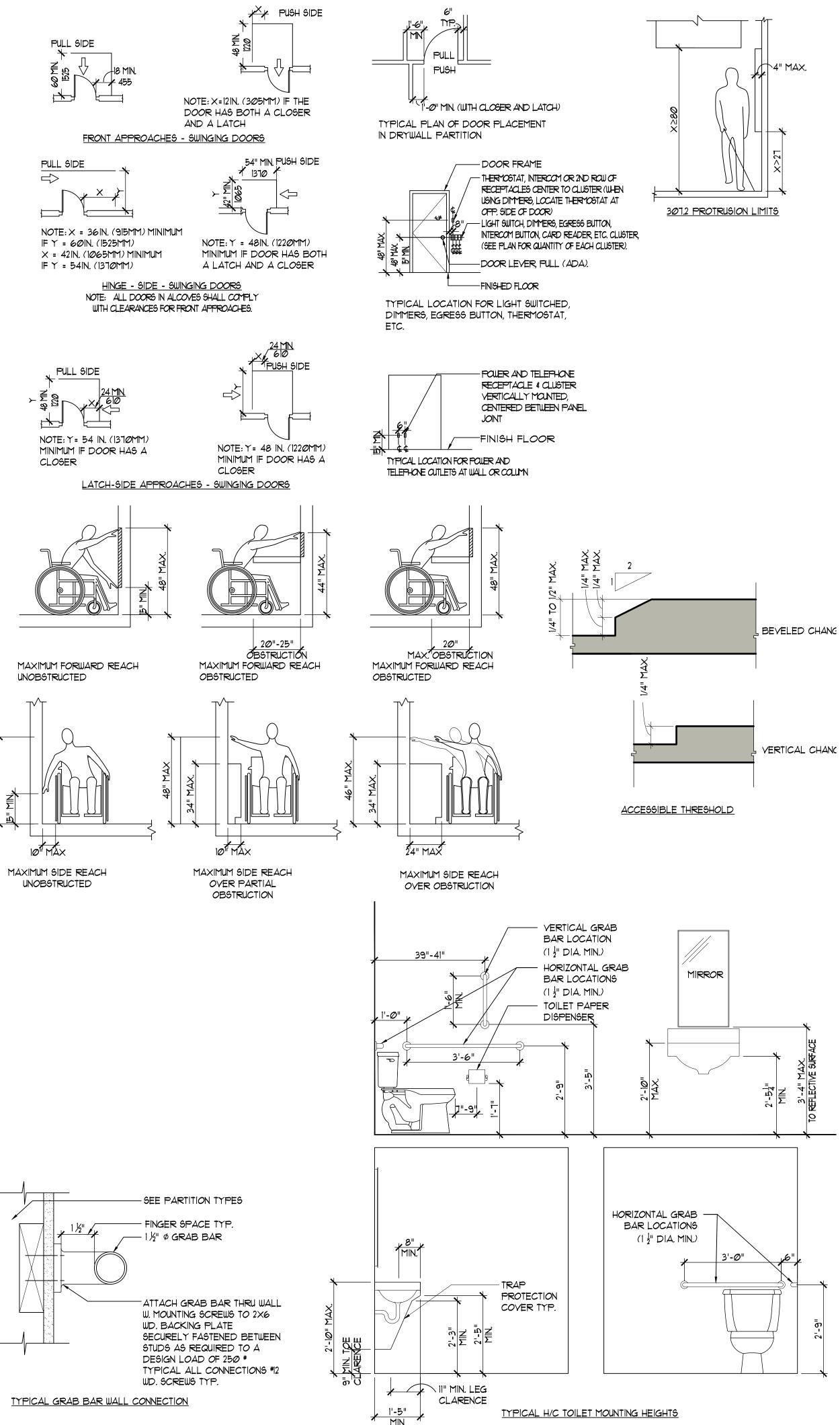
5. GLAZING IN EXTERIOR DOORS TO BE INSTALLED WITH "HIGH-PERFORMANCE LOW-E" TYPE GLAZING (TYP) ON EXTERIOR DOORS, AND BE TEMPERED (TYP)

6. DOOR EXTERIOR COLOR TO BE APPROVED BY OWNER AND/OR ARCHITECT.









PLUMBING FIXTURE NOTES

- 3 HOLE, 4-INCH CENTERS, VITREOUS CHINA± WALL HUNG LAVATORY, CAST GRID А. DRAIN, 1-1/4" TAIL PIECE, P-TRAP, FLEXIBLE SUPLIES WITH WALL FLANGES AND LOOSE KEY STOPS. J.R. SMITH 700 CARRIER FAUCET: 0.5 GPM @ 60 PSI, ADAAG CONTROLS, POLISHED CHROME. BELOW DECK THERMOSTATIC MIXING VALVE (110F MAX SET POINT) - LEONARD 108 SERIES + INSULATION KIT, TRUEBRO 102. CW: $\frac{1}{2}$ " HW: $\frac{1}{2}$ " DRAIN: 1-1/4"
- CADET 1.6 GAL FLUSH, VITREOUS CHINA, ELONGATED BOWL (17-INCH). CHURCH B *9500C SEAT, FLOOR MOUNTED. CW: 1" DRAIN: 4"
- PER SECTION 6 ANSI A117.1-2009, 48" MAX AFF TO OPERABLE PARTS OF TOWEL С. DISPENSERS/HAND DRYERS AND 9" MAX. FROM EDGE OF TOILET TO Q OF TOILET PAPER DISPENSER.

GENERAL NOTES

- A. GC TO PROVIDE WALL BLOCKING FOR ALL WALL MOUNTED EQUIPMENT/ SHELVING/TOILET ACCESSORIES.
- B. ALL PUBLIC-USE HAND WASHING FACILITIES: WATER DISCHARGED FROM PUBLIC-USE HAND WASHING FACILITIES SHALL BE LIMITED TO A TEMPERATURE NO HIGHER THAN 110 DEGREES (F) USING A WATER TEMPERATURE LIMITING DEVICE COMPLYING WITH ASSE 1010

ACCESSORY & FIXT	URE LEGEND
ITEM	MOUNTING HEIGHT
SD SOAP DISPENSER GB GRAB BAR - 36" & 42" FND FEMININE NAPKIN DISPENSER LAV LAVATORY ND FEMININE NAPKIN DISPOSAL M MIRROR RTD RECESSED PAPER TOWEL DISPENSER & DISPOSAL	COUNTER MOUNTED 33" AFF. TO CL. OF BAR 60" AFF. TO TOP OF UNIT 34" AFF. 34" AFF. TO TOP OF UNIT FULL HT. V.IF. 40" AFF. MAX. 48" AFF. TO CL. OF UNIT
TD TISSUE DISPENSER TH TOWEL HOOK U URINAL GB-Y GRAB BAR- 18" VERTICAL HANDICAP SIGNAGE	24" AFF. 54" AFF. 17" AFF. 39" AFF. 54" AFF.

BATHROOM SPECIFICATIONS: TOILET ACCESSORIES NOTES

S.S. GRAB BAR 1-1/2" DIA. PROVIDE BLOCKING ON WALL TO ANCHOR GRAB BAR TO SIDE WALL WITH MIN. 250#LB SHEAR STRESS

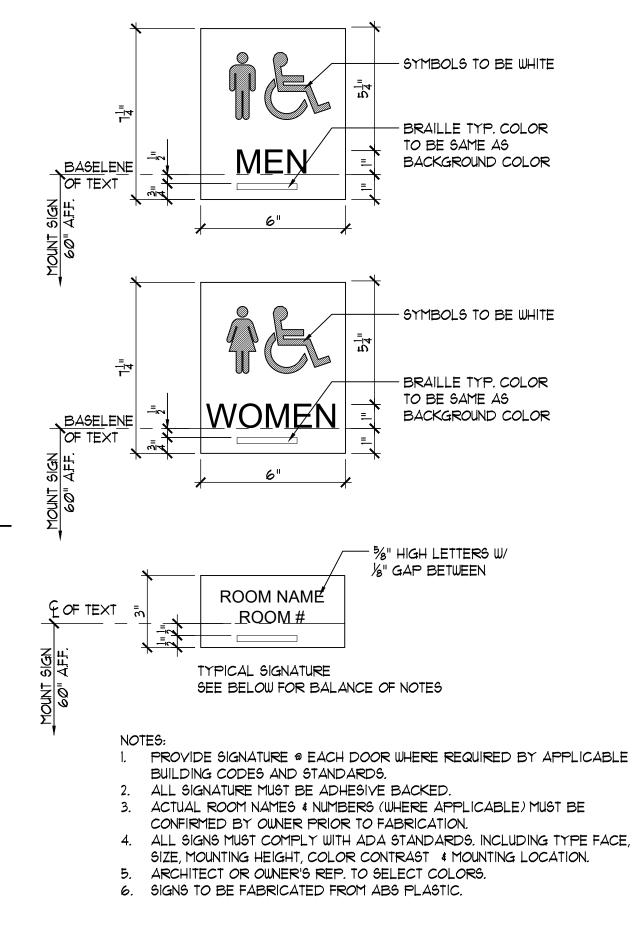
H/C TOILET WITH OPEN SEAT TOP OF SEAT TOILET FLUSHING VALVE TO BE ON OPEN SIDE PROVIDE H/C PLAQUE 3 FEET FROM LATCH SIDE OF DOOR

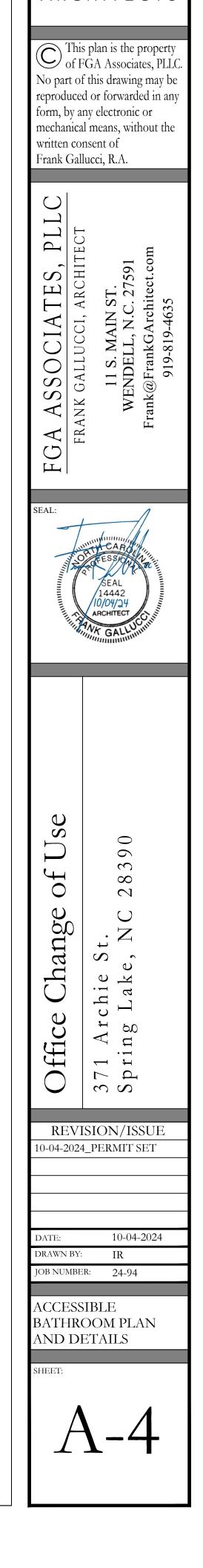
WALL SWITCH MOUNTING HEIGHT 42 INCHES FROM FINISH FLOOR CHROME PLATED TOILET TISSUE DISPENSER MOUNTED VERTICALLY PROVIDE WASTE CONTAINER IN TOILET TYPICAL

PROVIDE ELECTRIC HAND DRYER IN TOILET TYPICAL WALL HUNG SINK TO HAVE PIPE PROTECTION VIA "TRUEBRO" SYSTEM AND PROVIDE WRIST ACTION FAUCETS AS PER H/C SPEC.

MAXIMUM ACCESSORY HEIGHT 48" ABOVE FINISH FLOOR

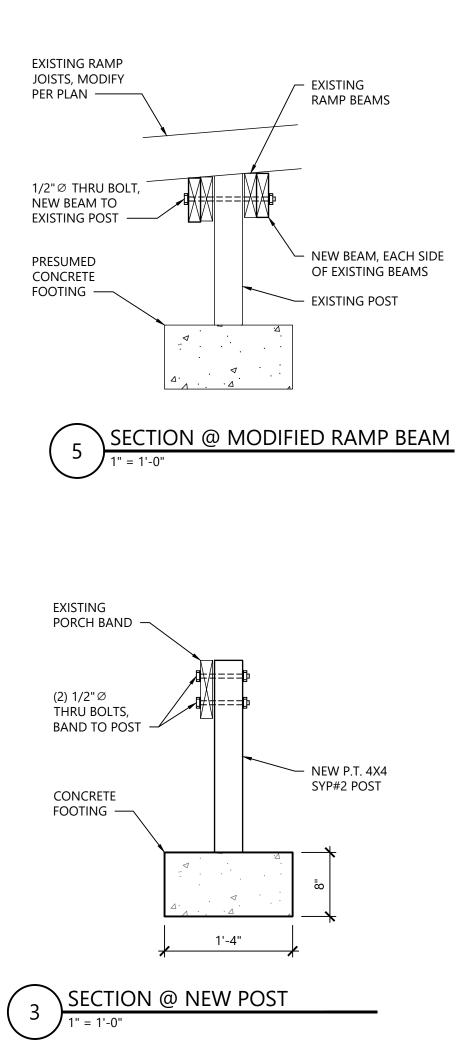
NOTE: TOILET PAPER DISPENSER TO BE 1" TO 9" IN FRONT OF TOILET.



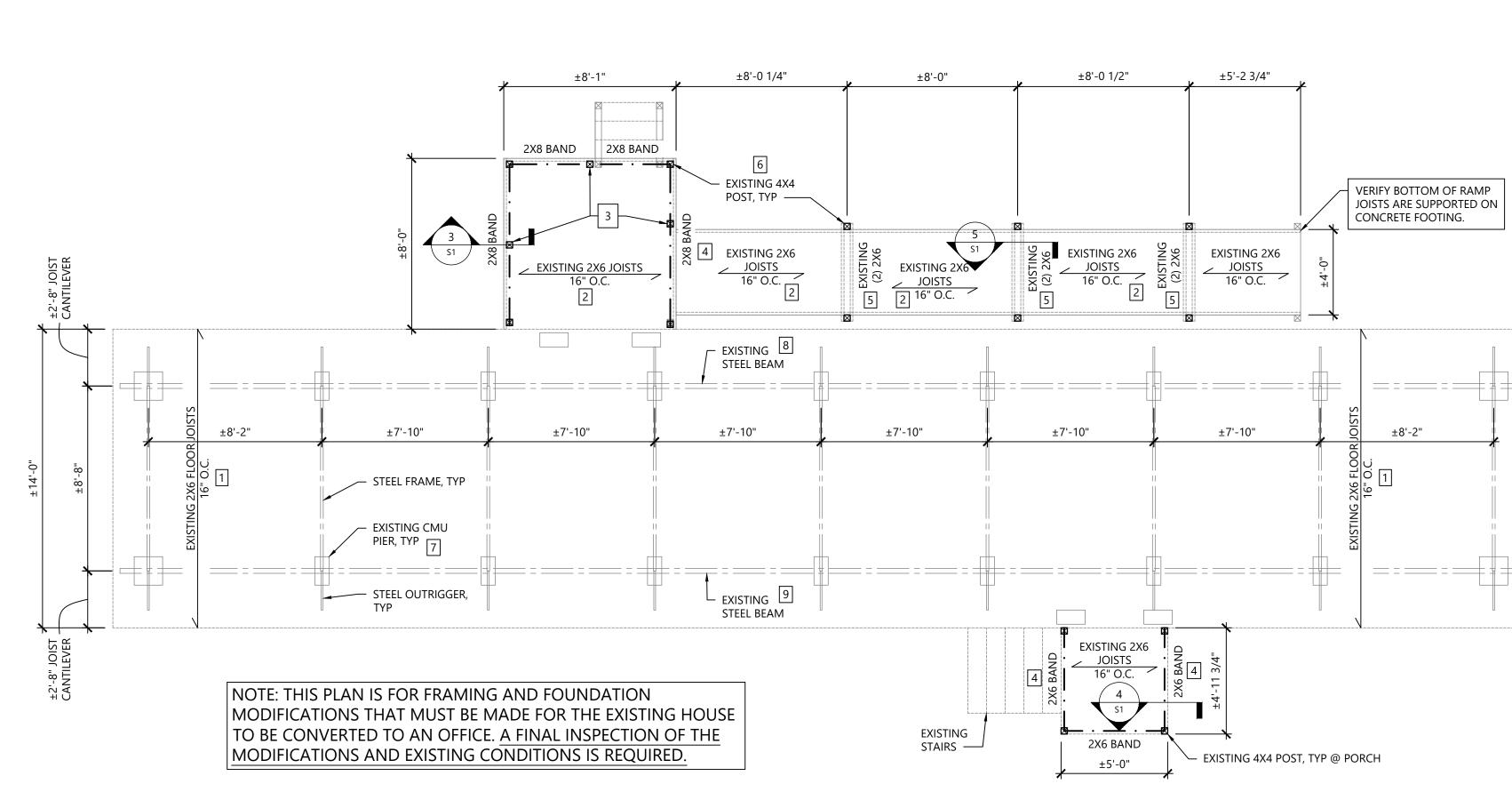


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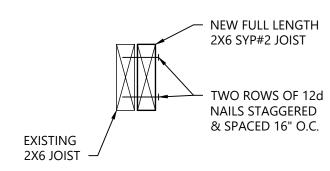


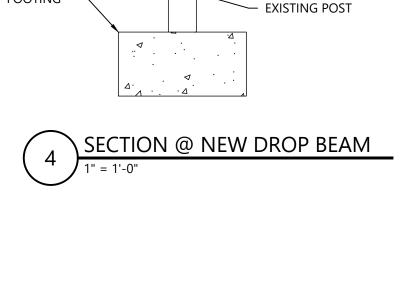
	WORK LEGEND / NOTES:
1.	SISTER-NAIL A FULL LENGTH 2X6 SYP#2 TO EACH EXISTING HOUSE FLOOR JOIST. NAIL WITH TWO ROWS OF 12d NAILS STAGGERED & SPACED 16" O.C. (<u>SEE DETAIL 2/S1</u>)
2.	SISTER-NAIL A FULL LENGTH P.T. 2X6 SYP#2 TO EACH EXISTING PORCH OR RAMP FLOOR JOIST. NAIL WITH TWO ROWS OF 12d NAILS STAGGERED & SPACED 16" O.C. (<u>SEE DETAIL 2/S1</u>)
3.	ADD NEW P.T. 4X4 SYP#2 POST @ MID-SPAN OF PORCH BEAM (OR VERIFY EXISTING). SUPPORT POST ON 16"X16"X8" CONCRETE FOOTING. (<u>SEE DETAIL 3/S1</u>).
4.	ADD FULL LENGTH P.T. (2) 2X8 SYP#2 BELOW EXISTING BAND. ATTACH TO EACH POST W/ (2) 1/2" Ø THRU BOLTS. (<u>SEE DETAIL 4/S1</u>).
5.	ADD P.T. 2X6 SYP#2 TO EACH SIDE OF EXISTING (2) 2X6 BEAM. ATTACH BEAMS TO POSTS W/ (1) 1/2" Ø THRU BOLT. (<u>SEE DETAIL 5/S1</u>)
6.	VERIFY EXISTING CONCRETE FOOTING BELOW PORCH/RAMP POSTS. ADD (2) $1/2" \varnothing$ Thru Bolts from Each beam to Post where Missing. (See Detail 3/S1)
7.	EXISTING CMU PIERS SHOWN ARE BASED ON ARCHITECTURAL PLANS BY OTHERS. EACH CMU PIER IS PRESUMED TO HAVE A MINIMUM 20"X20"X8" CONCRETE FOOTING. <u>PIER SPACING AND CONCRETE FOOTINGS TO BE</u> <u>VERIFIED AT TIME OF FINAL INSPECTION.</u>
8.	EXISTING STEEL BEAM IS PRESUMED TO BE OF STANDARD MANUFACTURED HOME SIZE & QUALITY. <u>EXACT STEEL BEAM SIZE TO BE VERIFIED AT TIME OF</u> FINAL INSPECTION.



1ST FLOOR FOUNDATION & FRAMING MODIFICATION PLAN 1/4" = 1'-0"







- EXISTING

PORCH JOISTS

- NEW BEAM, DROPPED

BELOW PORCH JOISTS

EXISTING

(2) 1/2"Ø THRU BOLTS,

NEW BEAM TO

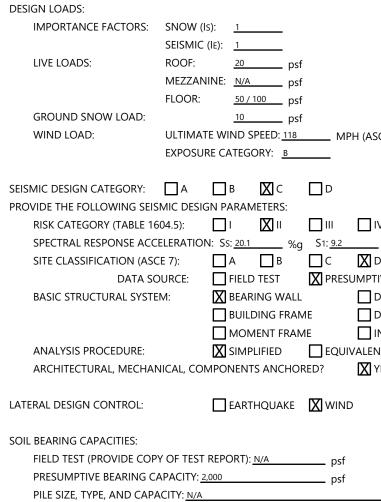
EXISTING POST

PRESUMED

CONCRETE

FOOTING —

PORCH BAND



2018 APPENDIX B BUILDING FOR ALL COMMERCIA

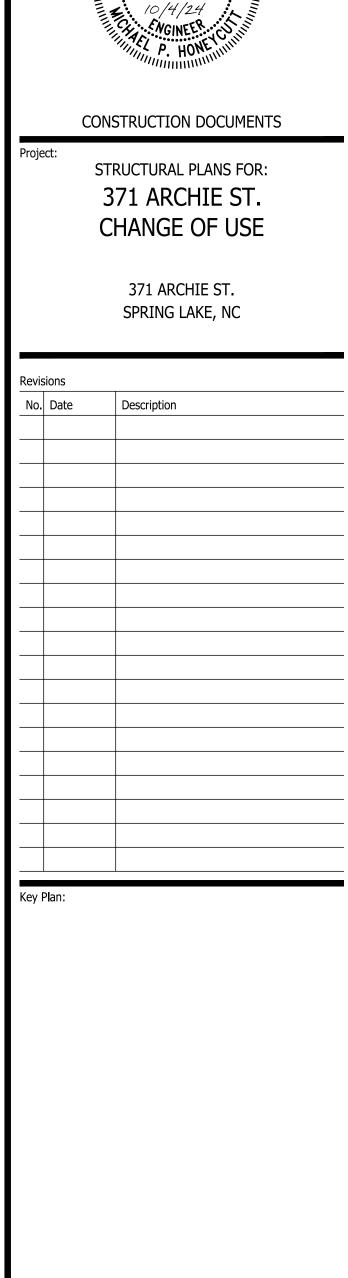
STRUCTURAL DESI (PROVIDE ON THE STRUCTURAL SH

G CODE SUMMARY	STRUCTURAL GENERAL NOTES:	
AL PROJECTS	1. ALL WORK MUST COMPLY WITH THE 2018 NORTH CAROLINA STATE AND LOCAL CODES.	MICHAEL P. HONEYCUTT,
IGN IEETS IF APPLICABLE)	2. IF CONTRACTOR FINDS A DIFFERENCE BETWEEN THESE DRAWINGS AND FIELD CONDITIONS WHICH PROHIBIT	<u>P.E.</u>
	EXECUTION OF THE WORK AS DIRECTED ON THESE DRAWINGS, CONTRACTOR SHALL NOTIFY DESIGNER IMMEDIATELY.	701 CHANCERY ST. ELON, NC 27244
	3. THE CONTRACTOR IS TO PROVIDE ALL NECESSARY BRACING AND SHORING REQUIRED FOR STRESSES AND INSTABILITY OCCURRING FROM ANY CAUSE DURING CONSTRUCTION.	<u>CONTACT:</u> 336-214-2017 mphoneycutt@gmail.com
H (ASCE-7)	STRUCTURAL WORK NOTES:	
□IV %g 図 D □ E □ F IMPTIVE □ HISTORICAL DATA	 FOUNDATION NOTES NEW FOUNDATIONS TO BE PLACED ON ORIGINAL UNDISTURBED SOIL OR FILL. UNLESS OTHERWISE NOTED, FOOTINGS SHALL BE CENTERED ON TOTAL WIDTH OF THE FOUNDATION WALL AND/OR COLUMNS. SOIL BEARING PRESUMED TO BE 2,000 PSF. IF SOIL IS NOT, CONTACT STRUCTURAL ENGINEER. 	<u>NOTE:</u> THESE PLANS ARE BASED ON ARCHITECTURAL AND BUILDING PLANS BY OTHERS. SEE ARCHITECTURAL PLANS FOR ALL INFORMATION NOT SHOWN ON THESE PLANS.
	 THE 28-DAY COMPRESSIVE STRENGTH OF ALL CONCRETE IS 3,000 PSI. FOUNDATION CONCRETE MIX TO HAVE 1 1/2" MAXIMUM AGGREGATE SIZE ASTM C33 AGGREGATE WITH MAXIMUM UNIT WEIGHT OF 150 PCF UNLESS OTHERWISE NOTED; CONCRETE FILL MIX TO HAVE 1/2" MAXIMUM AGGREGATE SIZE. 	DS3570 10/4/24 WOINFER
	FRAMING NOTES	P. HONE TOTAL
	1. ALL EXPOSED LUMBER AND LUMBER IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.	
	2. ALL EXPOSED FASTENERS, NAILS AND BOLTS TO BE HOT-DIPPED GALVANIZED OR PAINTED WITH RUST INHIBITIVE PAINT, UNLESS OTHERWISE NOTED.	CONSTRUCTION DOCUMENTS Project:
	 FRAMING LUMBER SHALL BE SOUTHERN YELLOW PINE #2 GRADE OR EQUIV., AND/OR SPRUCE FINE PINE FIR #1, AND/OR #2, AS NOTED, KILN DRIED (MC=15%) OR 	STRUCTURAL PLANS FOR: 371 ARCHIE ST.

STRUCTURAL MEMBERS SHALL NOT BE CUT TO INSTALL PLUMBING OR WIRING WITHOUT ADDING METAL OR WOOD SIDE PIECES TO STRENGTHEN THE MEMBER TO ITS ORIGINAL CAPACITY.

NAIL MULTIPLE MEMBERS WITH 2 ROWS OF 16D NAILS STAGGERED 16" O.C. AND USE 3-16D NAILS 2" IN AT EACH END UNLESS OTHERWISE NOTED.

EQUIVALENT UNLESS OTHERWISE NOTED.



Drawn by: MH Approved by: MH **S1**

MODIFICATION PLANS &

DETAILS

Sheet Title:

Project #: SP24245

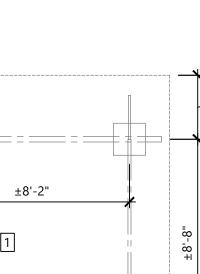
Date: 10/04/2024

Designed by: MH

Scale: AS NOTED

Sheet #:





±2'-8" JOIST CANTILEVER

PLUMBING GENERAL NOTES

GENERAL REQUIREMENTS:

- 1. GENERAL AND SPECIAL CONDITIONS: GENERAL AND SPECIAL CONDITIONS ARE HEREBY MADE AN INTEGRAL PART OF THIS DIVISION OF THE SPECIFICATIONS INSOFAR AS SAME ARE APPLICABLE TO THE WORK UNDER THIS DIVISION AND UNLESS OTHERWISE SPECIFIED.
- SCOPE PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED FOR THE COMPLETION AND OPERATION OF ALL SYSTEMS IN THIS SECTION OF WORK IN ACCORDANCE WITH ALL APPLICABLE CODES.
- 3. PERMITS: APPLY FOR AND PAY FOR ALL NECESSARY PERMITS, FEES, AND INSPECTIONS REQUIRED BY ANY PUBLIC AUTHORITY HAVING JURISDICTION.
- 4. WARRANTY: PROVIDE ALL MATERIALS AND EQUIPMENT UNDER THIS SECTION OF THE SPECIFICATIONS WITH A ONE YEAR WARRANTY FROM THE DATE OF ACCEPTANCE OF WORK BY THE OWNER.
- 5. COORDINATION: VERIFY ALL ROUGH-IN LOCATIONS AND COORDINATE PIPING AND EQUIPMENT LOCATIONS WITH WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID CONFLICTS. CONTRACTOR MUST COORDINATE WITH OTHER TRADES FOR ALL STRUCTURES, PIPING, CONDUIT, DUCTWORK, LIGHTING, ETC. TO PROPERLY BE INSTALLED. ANY CONFLICTS SHALL BE RESOLVED AT NO CHARGE TO THE OWNER. COORDINATE INSTALLATION OF ALL PLUMBING LINES AT CMU WALLS SO THAT PLUMBING LINES ARE PLACED IN WALL DURING CMU WALL CONSTRUCTION. CUTTING AND PATCHING OF CMU WALLS IN PLACE WILL NOT BE PERMITTED.
- 6. FIELD VERIFICATION: FIELD VERIFY EXISTING CONDITIONS BEFORE STARTING CONSTRUCTION AND NOTIFY THE ARCHITECT/ENGINEER OF RECORD OF ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND EXISTING CONDITIONS AND/OR ANY POTENTIAL PROBLEMS OBSERVED BEFORE CONTINUING WORK IN THE EFFECTED AREAS.
- PLUMBING SYSTEMS INCLUDE, BUT ARE NOT LIMITED TO:
 PLUMBING FIXTURES AND EQUIPMENT
 FIRE STOPPING
 DOMESTIC WATER SYSTEM
 SANITARY WASTE AND VENT SYSTEM
- GAS SYSTEM - STORM DRAIN/SEWER SYSTEM
- 8. PLUMBING DRAWINGS ARE DIAGRAMMATIC/SCHEMATIC IN NATURE AND REPRESENT THE GENERAL SCOPE OF WORK. DRAWINGS MAY NOT COMPLETELY DESCRIBE EVERY DETAIL OF THE INSTALLATION. HOWEVER, CONTRACTOR IS RESPONSIBLE FOR FURNISHING COMPLETE SYSTEMS INCLUDING ALL REQUIRED FIXTURES AND ACCESSORIES TO OBTAIN FULLY FUNCTIONING PLUMBING SYSTEMS.
- 9. NO ALLOWANCE SHALL BE MADE FOR CONTRACTORS FAILURE TO COORDINATE WITH ALL TRADES PRIOR TO ANY WORK INCLUDING BUT NOT LIMITED TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, UTILITIES, AND SITE WORK.

FIXTURES:

1. PROVIDE COMPLETE FIXTURES AND INCLUDE SUPPLIES, STOPS, VALVES, FAUCETS, DRAINS, TRAPS, TAIL PIECES, ESCUTCHEONS, ETC.

FIRE STOPPING:

1. FIRE STOP ALL PENETRATIONS, BY PIPING OR CONDUITS, OF FIRE RATED WALLS, FLOORS AND PARTITIONS. PROVIDE A DEVICE(S) OR SYSTEM(S) WHICH HAS BEEN TESTED AND LISTED AS COMPLYING WITH ASTM E-814 AND INSTALL IN ACCORDANCE WITH THE CONDITIONS OF THEIR LISTING. PROVIDE A DEVICE(S) OR SYSTEM(S) WITH AN 'F' RATING EQUAL TO THE RATING OF THE ASSEMBLY BEING PENETRATED.

DOMESTIC WATER:

- 1. FURNISH AND INSTALL A COMPLETE SYSTEM OF HOT AND COLD WATER, AND WASTE PIPING FROM EXISTING SUPPLIES TO ALL FIXTURES AND/OR EQUIPMENT REQUIRING THIS SERVICE. VERIFY LOCATION OF BEGINNING POINTS.
- DOMESTIC WATER PIPING BELOW GRADE: SOFT ANNEALED SEAMLESS COPPER TUBING, TYPE 'K' WITH NO JOINTS BELOW GRADE (ASTM B 88).
- DOMESTIC WATER PIPING AND JOINTS ABOVE GRADE: HARD DRAWN SEAMLESS COPPER TUBING, TYPE 'L' WITH 95-5 SILVER SOLDERED JOINTS (ASTM B 88). CPVC AND OR CROSS-LINKED POLYTHEYLENE (PEX TYPE A) (ASTM F877) PLASTIC HOT AND COLD WATER DISTRIBUTION IS ALLOWED WHERE PERMISSIBLE AND PRE-APPROVED.
- 4. STERILIZE DOMESTIC WATER PIPING IN ACCORDANCE WITH THE AMERICAN WATER WORKS ASSOCIATION'S SPECIFICATIONS AND LOCAL HEALTH DEPARTMENT REGULATIONS.
- 5. INSULATE DOMESTIC WATER PIPING ABOVE GRADE (EXCEPT EXPOSED CONNECTIONS TO PLUMBING FIXTURES) WITH ENGINEERED POLYMER FOAM INSULATION OR FIBERGLASS WITH FITTING INSERTS AND PVC COVERS. FOLLOW THIS SCHEDULE:

<u>SERVICE</u> DOMESTIC HOT WATER (105-140 DEG.F)	<u>PIPE SIZE</u> 1/2" - 1-1/2"	INS. THICKNESS 1/2"
DOMESTIC HOT WATER (105-140 DEG.F)	2" AND UP	3/4"
DOMESTIC HOT WATER (140-160 DEG.F)	ALL	1"
DOMESTIC HOT WATER CIRCULATION	ALL	1/2"
DOMESTIC COLD WATER	ALL	1/2"

- DOMESTIC WATER PIPING INSULATION, JACKETS, COVERINGS, SEALERS, MASTICS AND ADHESIVES ARE REQUIRED TO MEET A FLAME-SPREAD RATING OF 25 OR LESS AND A SMOKE-DEVELOPED RATING OF 50 OR LESS, AS TESTED BY ASTM E84 (NFPA 255) METHOD.
- 7. DO NOT INSTALL DOMESTIC WATER PIPING IN AREAS SUBJECT TO FREEZING TEMPERATURES. INSTALL WATER PIPING IN EXTERIOR WALLS ON THE CONDITIONED SIDE OF THE WALL INSULATION.
- 8. SHUT OFF VALVES: PROVIDE FULL PORT, BALL TYPE, AND INSTALL IN A LOCATION THAT PERMITS ACCESS FOR SERVICE WITHOUT DAMAGE TO THE BUILDING OR FINISHED MATERIALS. PROVIDE ACCESS DOORS IF REQUIRED.
- 9. PROTECT COPPER PIPING AGAINST CONTACT WITH DISSIMILAR METALS. ALL HANGERS, SUPPORTS, ANCHORS, AND CLIPS SHALL BE COPPER OR COPPER PLATED. WHERE COPPER PIPING IS CARRIED ON IRON TRAPEZE HANGERS WITH OTHER PIPING, PROVIDE A PERMANENT ELECTROLYTIC ISOLATION MATERIAL TO PREVENT CONTACT WITH OTHER METALS.
- 10. PROTECT COPPER PIPING AGAINST CONTACT WITH ALL MASONRY. WHERE

COPPER IS SLEEVED THROUGH MASONRY, PROVIDE COPPER OR RED BRASS SLEEVES. WHERE COPPER MUST BE CONCEALED IN OR AGAINST MASONRY PARTITIONS, PROVIDE A HEAVY COATING OF ASPHALTIC ENAMEL ON THE COPPER PIPING AND15# ASPHALT SATURATED FELT BETWEEN THE PIPING AND THE MASONRY PARTITION.

- 11. HOSE BIBS SHALL BE PROVIDED WITH A NON-REMOVABLE VACUUM BREAKER.
- 12. FURNISH BURST PROOF BRAIDED FLEXIBLE CONNECTORS FOR SINK CONNECTIONS AND CONNECTIONS TO EQUIPMENT.
- 13. PROVIDE ZURN WILKINS MODEL 740 (OR EQUAL) BACKFLOW PREVENTION TYPE VACUUM BREAKER FOR ICE MACHINE, CARBONATOR AND OTHER EQUIPMENT AS REQUIRED BY CODE.
- 14. P.C. SHALL VERIFY THE INCOMING WATER PRESSURE AND PROVIDE A PRESSURE REDUCING VALVE IF PRESSURE IS 80 PSI OR GREATER.
- 15. P.C. SHALL INSTALL HAMMER ARRESTORS ON PROJECTS THAT USE QUICK CLOSING DEVICES SUCH AS FLUSH VALVES, ICE MAKER, WASHER MACHINES, ETC., SIZED PER MANUFACTURER RECOMMENDATIONS.
- 16. PC SHALL PROVIDE ALL WATER HEATERS (WATTAGE/INPUT AND CAPACITY AS NOTED IN SCHEDULE). ALL WATER HEATERS SHALL BE THIRD PARTY CERTIFIED; PROVIDE PANS FOR WATER HEATERS IN ACCORDANCE WITH 504.7 OF THE NC PLUMBING CODE. ELECTRICAL CONNECTIONS SHALL BE BY ELECTRICAL CONTRACTOR, PC SHALL COORDINATE WITH EC ON ELECTRICAL CHARACTERISTICS OF THE EQUIPMENT PROVIDED.
- 17. ALL PUMPS SHALL BE RATED FOR TRANSPORT OF POTABLE WATER. PUMPS IN AN INDIVIDUAL WATER SUPPLY SYSTEM SHALL BE CONSTRUCTED AND INSTALLED SO AS TO PREVENT CONTAMINATION FROM ENTERING THE WATER SUPPLY SYSTEM.

SANITARY WASTE AND VENT PIPING:

- 16. FURNISH AND INSTALL COMPLETE SYSTEMS OF SOIL, WASTE, AND VENT PIPING FROM ALL PLUMBING FIXTURES, AND/OR OTHER EQUIPMENT. ALL SOIL, WASTE AND VENT LINES SHALL BE CONCEALED IN THE BUILDING CONSTRUCTION WHERE POSSIBLE.
- 17. INVERT ELEVATIONS SHALL BE ESTABLISHED AND VERIFIED BEFORE WASTE PIPING IS INSTALLED IN ORDER THAT PROPER SLOPES WILL BE MAINTAINED.
- SANITARY WASTE AND VENT PIPING AND FITTINGS: SERVICE WEIGHT CAST IRON, HUB AND SPIGOT TYPE WITH COMPRESSION JOINTS (ASTM A 74) OR NO-HUB PIPING WITH COUPLINGS (CISPI 301).

IF PERMITTED BY LOCAL CODES, SCHEDULE 40 PVC (ASTM D 2665) WITH SCHEDULE 40 SOCKET-TYPE PIPE FITTINGS (ASTM D 3311) MAY BE USED. DO NOT INSTALL PVC PIPING IN RETURN AIR PLENUMS. PVC FOAM CORE DWV PIPING NOT PERMITTED.

- 19. SLOPE SANITARY WASTE PIPING 2-1/2" AND SMALLER AT 1/4" PER FOOT MIN. SLOPE SANITARY WASTE PIPING 3" AND LARGER AT 1/8" PER FOOT MINIMUM.
- 20. WHERE WASTE PIPING IS EXPOSED IN REST ROOM AREAS, PROVIDE CHROME PLATED BRASS PIPING, WITH MATCHING STOPS AND ESCUTCHEONS. PROVIDE REMOVABLE TRAPS WITH INTEGRAL CLEAN-OUT PLUG FOR ALL LAVATORIES.
- 21. INSTALL CLEAN-OUTS IN A LOCATION THAT PERMITS ACCESS FOR SERVICE WITHOUT DAMAGE TO THE BUILDING OR FINISHED MATERIALS. PROVIDE CLEANOUTS AT THE BASE OF ALL WASTE STACKS, AT ALL CHANGE IN DIRECTION OF PIPING IN EXCESS OF 45 DEGREES AND EVERY 100 FEET.
- 22. ALL INDIRECT WASTE CONNECTIONS TO BE INSTALLED WITH AN AIR GAP BETWEEN INDIRECT WASTE PIPE AND THE FLOOD RIM OF THE WASTE RECEPTOR SHALL BE MINIMUM OF TWICE THE EFFECTIVE OPENING OF THE INDIRECT WASTE PIPE.
- 23. ROOF PENETRATIONS SHALL MAINTAIN A MINIMUM CLEARANCE OF 16" BETWEEN PENETRATIONS.
- 24. PLUMBING VENTS SHALL BE INSTALLED WITH MINIMUM HEIGHTS AS REQUIRED BY LOCAL JURISDICTION HAVING AUTHORITY.

BACKFLOW PREVENTION:

VERIFY BACKFLOW PREVENTOR REQUIREMENTS OF LOCAL AUTHORITY AND PROVIDE BACKFLOW PREVENTION DEVICES AS REQUIRED. COORDINATE LOCATION WITH OTHER TRADES.

WATER METER:

. VERIFY DOMESTIC WATER METER REQUIREMENTS OF LOCAL AUTHORITY AND PROVIDE DOMESTIC WATER METER AS REQUIRED. COORDINATE LOCATION WITH OTHER TRADES.

SEISMIC REQUIREMENTS:

MALLEABLE FITTINGS.

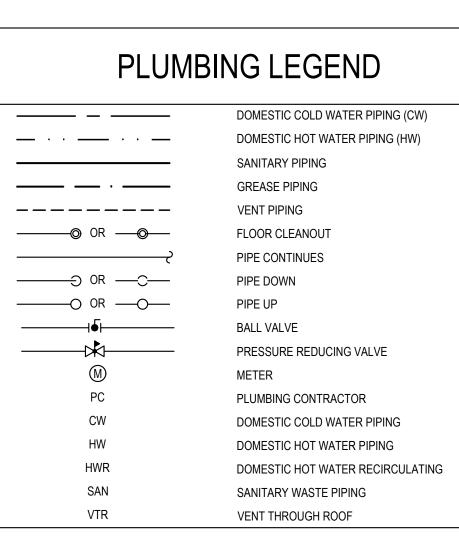
1. PROPERLY SUPPORT AND BRACE VERTICALLY AND HORIZONTALLY ALL PIPING, APPARATUS, EQUIPMENT, ETC. IN ACCORDANCE WITH APPLICABLE CODES TO PREVENT EXCESSIVE MOVEMENT DURING SEISMIC CONDITIONS.

GAS PIPING:

- WORK TO INCLUDE PIPING FROM GAS METER TO GAS FIRED EQUIPMENT. PLUMBING CONTRACTOR TO PROVIDE SHUT-OFF VALVE, DIRT TRAP AND PRESSURE REGULATOR AT THE GAS FIRED EQUIPMENT.
- ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL CODE REQUIREMENTS AND THE PROVISIONS OF NFPA-54 AND NFPA-58.
- 3. THE CONTRACTOR SHALL SUPPLY ALL PERMITS, FEES AND LICENSES REQUIRED FOR THE WORK AND FOR ALL INSPECTIONS REQUIRED.
- 4. PIPE 3" AND SMALLER SHALL BE SCHEDULE 40 STEEL WITH THREADED
- 5. VALVES SHALL BE GAS COCKS MANUFACTURED BY NIBCO.
- 6. ALL PIPING EXPOSED TO THE OUTDOORS OR RUN IN UNCONDITIONED SPACES SHALL BE PAINTED WITH TWO COATS OF RUST RESISTANT ENAMEL.
- 7. ALL GAS PIPING WITH A SERVICE PRESSURE GREATER THAN 0.5PSI MUST BE IDENTIFIED PER NCFGC 410.2.
- 8. PRESSURE TEST PORTS MUST BE PROVIDED AT ALL MP REGULATORS IN ACCORDANCE TO NCFGC 410.2.
- 9. ALL GAS PIPING MUST COMPLY WITH NCFGC T.415.1.

PLUMBING FIXTURE SCHEDULE							
	DECODIDITION		FIXTURE CONNECTIONS				
MARK DESCRIPTION		REMARKS —		HW	WASTE	VENT	
WC-1	WATER CLOSET - TANK TYPE (ADA)	AMERICAN STANDARD - CHAMPION PRO (1.28 GPF) # 211AA004.020. TWO PIECE FLOOR MOUNTED WATER CLOSET. ADA HEIGHT. COLOR: WHITE. PROFLOW PFTSCOF2000WH ELONGATED BOWL SEAT, COLOR: WHITE. PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR.	1/2"	-	3"	2"	
LV-1	LAVATORY (ADA) - WALL HUNG	WALL HUNG LAVATORY (AMERICAN STANDARD "LUCERNE." 0355012020) WITH CONCEALED ARM CARRIER MOUNTING. PROVIDE PROFLO PFWS2840CP FAUCET. HANDICAP DRAIN OFFSET W/GRID DRAIN (ZURN Z8746- PC) AND CHROME PLATED P - TRAP (ZURN Z8701-PC). McGUIRE MODEL LF2165, CHROME PLATED BRASS ANGLE SUPPLY STOPS WITH BRASS STEMS, WHEEL HANDLES, 1/2" IPS INLETS, 3/8" COMPRESSION OUTLETS, 12" CHROME PLATED FLEXIBLE SUPPLY RISERS INSULATE TRAP AND SUPPLY LINES (TRUEBRO "LAVGUARD" #103 E-Z). PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL AN ASSE 1070 COMPLAINT THERMOSTATIC MIXING VALVE SET AT 105 DEGREES.	1/2"	1/2"	2"	2"	

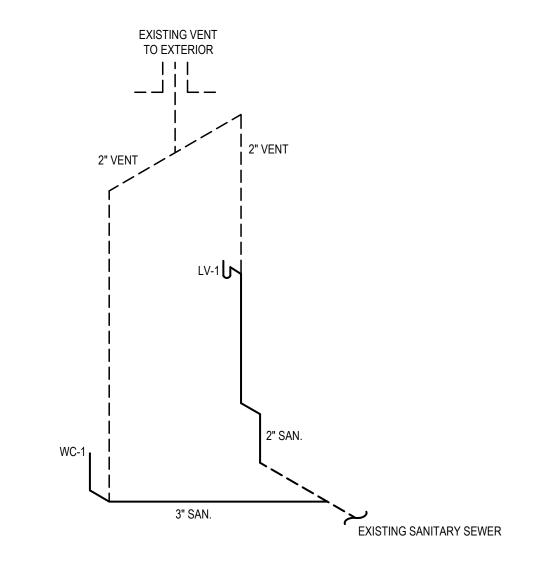
NOTE: CONTRACTOR SHALL COORDINATE FINAL FIXTURE SELECTIONS WITH OWNER AND ARCHITECT PRIOR TO PURCHASE AND INSTALLATION



SEE ARCHITECTURAL PLANS FOR MINIMUM FACILITIES CALCULATIONS

SOIL AND WASTE COLD WATER DEMAND

9 DFU15 WFSU17.5 GPM



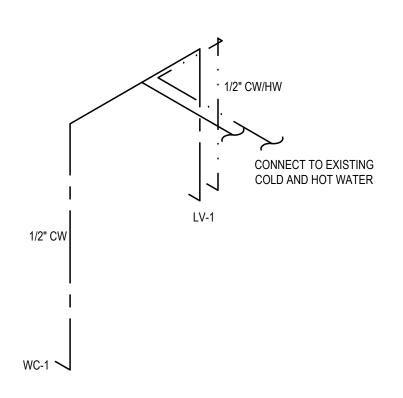




PLUMBING DRAWING INDEX					
P0.1	PLUMBING LEGENDS AND NOTES				
P0.2	PLUMBING DEMO PLAN				
P1.1	PLUMBING PLANS				

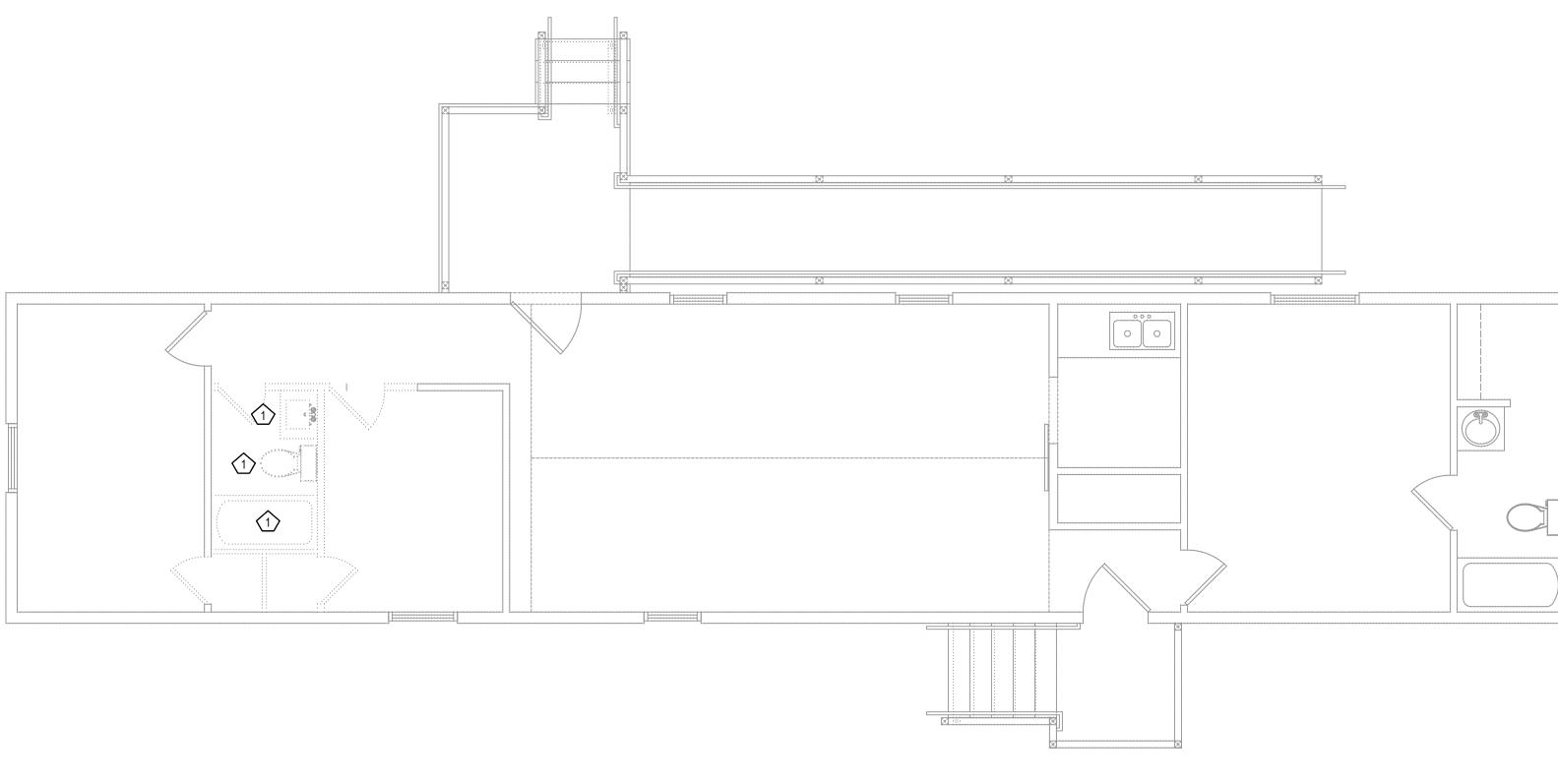
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DOMESTIC WATER RISER DIAGRAM

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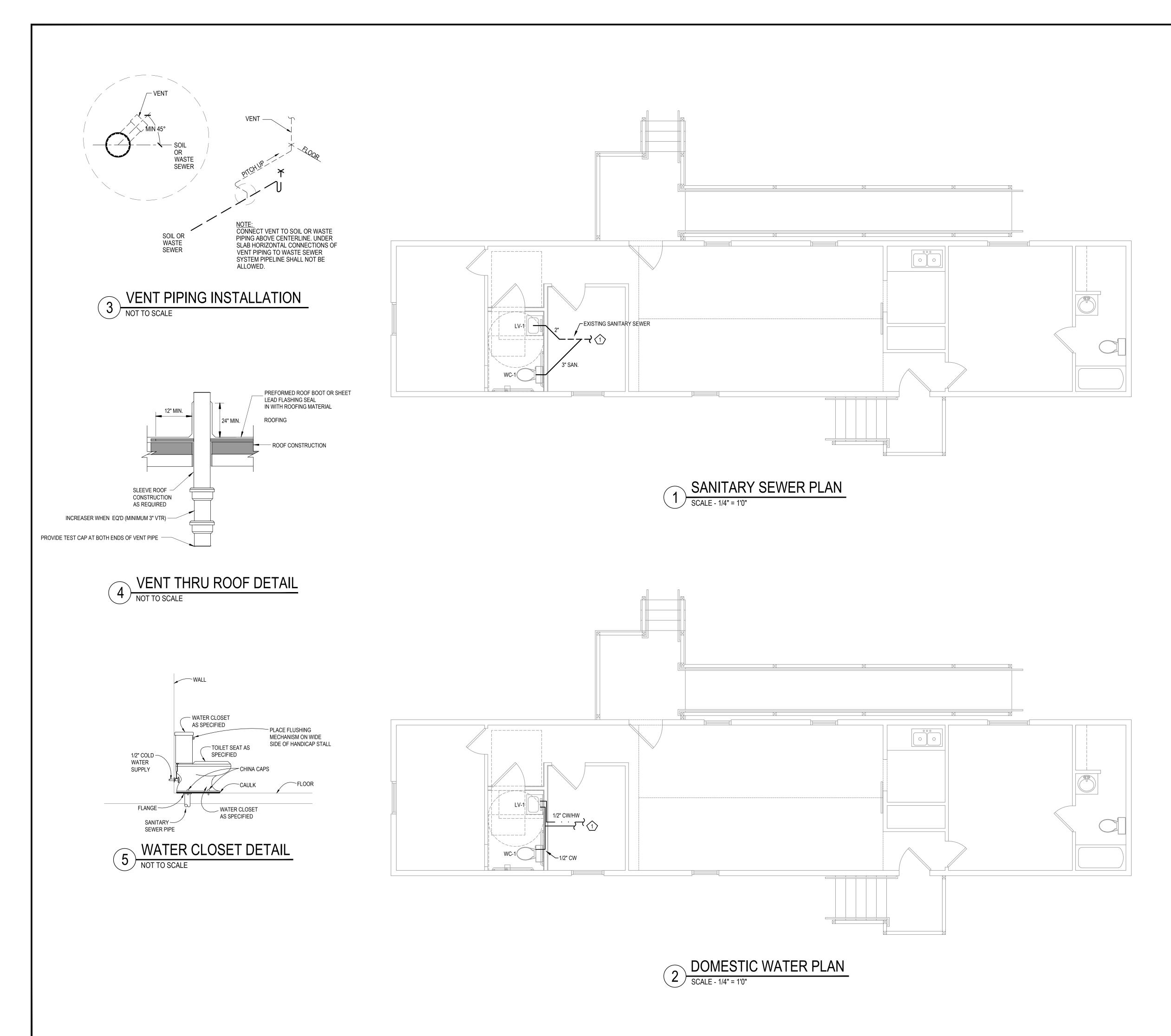
\Diamond	DEMO KEYNOTE LEGEND
KEY VALUE	KEYNOTE TEXT
1	DEMO EXISTING FIXTURE AND DEMO PLUMBING TO BELOW FINISHED FLOOR IN CRAWL SPACE AREA.



DISCLAIMER THESE DRAWINGS, THE PROJECT SPECIFICATIONS MANUAL, AND THE DESIGN ARE INSTRUMENTS OF SERVICE ONLY AND REMAIN THE PROPERTY OF SHARPE ENGINEERING & CONSULTING, PLLC. THE REPRODUCTION AND/OR UNAUTHORIZED USE OF THESE DOCUMENTS WITHOUT THE EXPRESS WRITTEN PERMISSION OF SHARPE ENGINEERING & CONSULTING, PLLC IS PROHIBITED.						
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\diamond s	SANITARY KEYNOTE LEGEND
KEY VALUE	KEYNOTE TEXT
1	CONTINUES TO EXISTING SANITARY SEWER.

NOTE:

SCOPE OF WORK IS LIMITED TO RE-WORKING EXISTING BATHROOM TO BE ACCESSIBLE PER NCBC. ALL OTHER FIXTURES, SYSTEMS, ETC. ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.

CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF EXISTING SANITARY AND WATER LINES FOR TIE IN FOR NEW FIXTURES PRIOR TO BEGINNING WORK. CONTACT ENGINEER OF RECORD WITH ANY MAJOR DISCREPANCIES WITH EXISTING CONDITIONS.

\Diamond	WATER KEYNOTE LEGEND
KEY VALUE	KEYNOTE TEXT
1	CONTINUES TO EXISTING DOMESTIC COLD AND HOT WATER.

NOTE:

SCOPE OF WORK IS LIMITED TO RE-WORKING EXISTING BATHROOM TO BE ACCESSIBLE PER NCBC. ALL OTHER FIXTURES, SYSTEMS, ETC. ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.

CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF EXISTING SANITARY AND WATER LINES FOR TIE IN FOR NEW FIXTURES PRIOR TO BEGINNING WORK. CONTACT ENGINEER OF RECORD WITH ANY MAJOR DISCREPANCIES WITH EXISTING CONDITIONS.

ALL REQUIRED VALVES NOT SHOWN. INSTALL FULL OPEN VALVES PER 2018 PC CODE 606.1.5 AND 606.1.8 INSTALL SHUT OFF VALVES PER 2018 NC PLUMBING CODE 606.2 AND 606.2.1

E **K** e e S NC 275 P-2821 DISCLAIMER THESE DRAWINGS, THE PROJECT SPECIFICATIONS MANUAL, AND THE DESIGN ARE INSTRUMENTS OF SERVICE ONLY AND REMAIN THE PROPERTY OF SHARPE ENGINEERING & CONSULTING, PLLC. THE REPRODUCTION AND/OR UNAUTHORIZED USE OF THESE DOCUMENTS WITHOUT THE EXPRESS WRITTEN PERMISSION OF SHARPE ENGINEERING & CONSULTING, PLLC IS PROHIBITED. CH CARO SEAL 056419 NVERSION \mathbf{O} FOR ш OFFIC STREE KE, NC DESIGN HOME 371 ARCHIE SPRING LA \cap ш 2 MANUF/ DESCRIPTION DATE DATE DESCRIPTION 1 FOR PERMITTING 10-2-24 PROJECT NO.: DRAWN BY: 24-110 DBAS CHECKED BY: DBAS PLUMBING PLANS P

		HVAC GENE	ERAL	NOTES
1.	INST	HANICAL CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED FOR THE COMPLETE ALLATION AND OPERATION OF ALL SYSTEMS IN THIS SECTION OF WORK IN ACCORDANCE WITH RECOMMENDED PRACTICE, NORTH CAROLINA MECHANICAL CODE AND ALL APPLICABLE CODES ADOPTED BY THE AUTHORITY HAVING JURISDICTION.	16.	E. AIR DISTRIBUTION - INSULATE THE ALL PIPING, DUCTS, VENTS, ETC., EXTEND
2.		OT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF WALLS, DOORS, WINDOWS, FURNITURE, TS, CEILING DIFFUSERS, ETC.	17.	WATERPROOF MANNER. PROVIDE SLEEVES AND/OR OPENINGS TO
3.	ALL I	AECHANICAL PERMITS AND INSPECTION FEES SHALL BE OBTAINED AND PAID FOR BY THE MECHANICAL CONTRACTOR.	18.	EXTEND ALL CONDENSATE DRAINS TO JAN FROM MECHANICAL EQUIPMENT SHALL BE
4.	SHAL	HANICAL CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR ONE YEAR. REFRIGERANT COMPRESSORS L BE GUARANTEED FOR FIVE YEARS. WARRANTY PERIOD SHALL BE EFFECTIVE THE DAY THE PROJECT IS ACCEPTED BY		PER FOOT.
5.	DRAN For Ceili All F	OWNER. VINGS ARE DIAGRAMMATIC AND MAY NOT SHOW ALL REQUIRED FITTINGS. MECHANICAL CONTRACTOR IS RESPONSIBLE COORDINATING THE TYPE, SIZE AND LOCATION OF ALL AIR DEVICES, DUCTWORK, PIPING AND EQUIPMENT WITH THE NG PLAN, LIGHTS, STRUCTURAL ELEMENTS AND OTHER TRADES. MECHANICAL CONTRACTOR TO FURNISH AND INSTALL 3ENDS, OFFSETS, ELBOWS, ETC. AS REQUIRED TO OBTAIN FULLY FUNCTIONING MECHANICAL AND HVAC SYSETMS. VERIFY CLEARANCES PRIOR TO FABRICATING DUCTWORK, OR ORDERING ANY EQUIPMENT, PIPING, ETC.	19.	NON-RESIDENTIAL AREAS: LOCATE ALL TH FLOOR. FURNISH A THERMOSTATIC CONTE NOT.RESIDENTIAL/DWELLING AREAS: LOC/ FINISHED FLOOR FOR STANDARD DWELLIN THERMOSTATIC CONTROL DEVICE FOR EV ON A PERIMETER WALL SHALL BE MOUNTE SEALED TO PREVENT INFILTRATION.
6.		HANICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING MATERIALS AND INSTALLING THE WORK IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND NATIONAL CODES ADOPTED BY THE AUTHORITY HAVING JURISDICTION.	20.	ALL EQUIPMENT SHALL BE INSTALLED PER SERVICE/ACCESS CLEARANCES.
7.	THE	MC SHALL VISIT THE SITE PRIOR TO BIDDING TO BECOME FAMILIAR WITH EXISTING CONDITIONS. THE MC SHALL CONTACT ENGINEER TO RESOLVE ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THESE PLANS. THE MC SHALL RDINATE WITH OTHER TRADES PRIOR TO THE START OF CONSTRUCTION.	21. 22.	ALL ROOF MOUNTED EQUIPMENT SHALL B
8.	NO A	LLOWANCE SHALL BE MADE FOR CONTRACTORS FAILURE TO COORDINATE WITH ALL TRADES PRIOR TO ANY WORK JDING BUT NOT LIMITED TO ARCHITECTURAL, STRUCTURAL, ELECTRICAL, PLUMBING, UTILITIES, AND SITE WORK.	23.	COMPONENTS OR PARTS. PROVIDE REQUI
9.	ALL E WITH ACCI ALTE SUBS RESF	EQUIPMENT LISTED IN PROJECT SCHEDULES IS TO BE CONSIDERED DESIGN BASIS EQUIPMENT. ALL COST ASSOCIATED I SUBSTITUTED/NON-DESIGN BASIS EQUIPMENT TO COMPLY WITH BASIS OF DESIGN, INCLUDING PROVIDING MAINTENANCE ESS, CLEARANCE, PIPING, SHEET METAL, ELECTRICAL, REPLACEMENT OF OTHER SYSTEM COMPONENTS, BUILDING RATIONS, ETC., SHALL BE INCLUDED IN THE ORIGINAL BASE BID. NO ADDITIONAL COST ASSOCIATED WITH STITUTED/NON-DESIGN BASIS EQUIPMENT WILL BE APPROVED DURING CONSTRUCTION AND ALL COST WILL BE THE PONSIBILITY OF THE MECHANICAL CONTRACTOR. THIS INCLUDES ANY MODIFICATIONS TO ANY ASSOCIATED MECHANICAL, IBING, OR ELECTRICAL SYSTEMS REQUIRED BY THE SPECIFIC MANUFACTURER'S INSTALLATION INSTRUCTIONS.		SPECIFICATIONS INDICATED ON PLANS AN COMPLETE TEST AND BALANCE REPORT. T TO PROJECT COMPLETION. THE TEST AND BY THE ENGINEER. ANY ADDITIONAL TEST REQUEST) AFTER REVIEW OF THE INITIAL I AND BALANCING CONTRACTOR TO CONFIF BEGINNING WORK. THE MECHANICAL CON TEST AND BALANCE REPORT TO BE COMP
10.	AT A	ALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS. ANY ISSUES AS A RESULT OF DEVIATION // THE MANUFACTURER'S INSTALLATION INSTRUCTIONS IS THE RESPONSIBILITY OF THE CONTRACTOR.	24.	CONTRACTOR. CONTROL WIRING FOR ALL MECHANICAL S
11.	PROI CHAI	TRACTOR SHALL BE FINANCIALLY LIABLE FOR ANY REQUIRED ENGINEERING REVIEW AND/OR DESIGN WORK DUE TO ANY POSED PRODUCT CHANGE AND/OR "VALUE ENGINEERING" AFTER PLANS HAVE BEEN PERMITTED. ANY PROPOSED PRODUCT NGES AND/OR "VALUE ENGINEERING" IS TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PLANS BEING PLETED AND SUBMITTED FOR PERMITTING.	25.	DUCT SMOKE DETECTORS SHALL BE INSTA DECONTAMINATION EQUIPMENT UPON AC REQUIRED BY 2018 NORTH CAROLINA MEC FURNISHED AND WIRED BY THE ELECTRIC. DUCT SMOKE DETECTOR SHALL INITIATE A LOCATION. * IF THERE IS NOT A FIRE ALAR
12.	REPL	MC SHALL VERIFY THE FUNCTIONALITY AND OPERATION OF ALL EXISTING MECHANICAL EQUIPMENT IN THE AREA OF WORK, ACE FILTERS, LEAK TEST AND RECHARGE REFRIGERANT LINES, REPLACE OR LUBRICATE BEARINGS, CHECK LINKAGES AND JATORS, AND PERFORM OTHER MAINTENANCE SERVICE AS NECESSARY TO GET THE EQUIPMENT IN PROPER WORKING	26.	MECHANICAL CONTRACTOR. ACTIVATION O SUPERVISORY SIGNAL AT A CONSTANTLY PROVIDE A CLEAN SET OF FILTERS FOR AL
13.		IWORK	20. 27.	MAINTAIN A MINIMUM 10'-0" BETWEEN OUT
	A.	RESIDENTIAL/DWELLING AREAS: ALL DUCTWORK SHALL BE FIBROUS GLASS DUCT BOARD FACED ON THE OUTSIDE WITH A FIRE RETARDANT, REINFORCED FOIL-SCRIM-KRAFT FACING, CONSTRUCTED IN ACCORDANCE WITH SMACNA STANDARDS. DUCT INSULATION IS TO BE MIN. R-6 WHEN LOCATED WITHIN THE CONDITIONED BUILDING	28.	COORDINATE FINAL LOCATIONS. PROVIDE 4" THICK CONCRETE PAD FOR AL LARGER THAN UNIT ON ALL SIDES.
	B.	ENVELOPE; MIN. R-8 WHEN LOCATED IN THE ATTIC, OUTSIDE THE BUILDING ENVELOPE OR UNCONDITIONED SPACES.	29.	RUN DUCT UP WITHIN STRUCTURE OR THE
	C.	ALL DUCT DIMENSIONS SHOWN ARE INTERNAL CLEAR DIMENSIONS.	30.	TAPS OFF TOP, SIDES OR BOTTOM AS REC REFRIGERANT PIPING SHALL BE SIZED & IN
	D.	PROVIDE A MANUAL BALANCING DAMPER AT ALL SUPPLY AND RETURN BRANCH TAKEOFFS, AS WELL AS ALL OUTSIDE AIR MAIN & BRANCH DUCTS.	31.	INSTALLATION INSTRUCTIONS. ALL EQUIPMENT SHALL BE LABELED ACCO
	E.	FLEXIBLE DUCT, IF SHOWN ON DRAWINGS, SHALL BE INSULATED ROUND DUCT WITH AN OUTER GLASS REINFORCED SILVER MYLAR JACKET ENCLOSING MIN. 1-1/2" THICK GLASS FIBER INSULATION AROUND A CONTINUOUS INNER LINER, AND SHALL CONFORM TO THE REQUIREMENTS OF U.L. 181 FOR CLASS 1 FLEXIBLE AIR DUCTS. MAXIMUM LENGTH OF FLEXIBLE DUCT SHALL BE 6 FEET FOR COMMON AREA SYSTEMS; MAXIMUM LENGTH OF FLEXIBLE DUCT SHALL NOT BE LIMITED FOR DWELLING UNIT SYSTEMS. "R" VALUE TO MEET/EXCEED ENERGY CODE (NCECC SECTION C 403.2.9): DUCT	32.	MECHANICAL CONTRACTOR SHALL PROVIE SERVICE AND FLOW DIRECTION. PLASTIC F USE IN A RETURN AIR PLENUM. ALL PIPING
		INSULATION IS TO BE MIN. R-6 WHEN LOCATED WITHIN THE CONDITIONED BUILDING ENVELOPE; MIN. R-8 WHEN LOCATED IN THE ATTIC, OUTSIDE THE BUILDING ENVELOPE OR UNCONDITIONED SPACES.	33. 34.	ALL EQUIPMENT SUPPORTS ARE REQUIRE THE MECHANICAL CONTRACTOR SHALL BE
	F. G.	ALL SHEET METAL DUCTWORK WITHIN 10' OF THE AIR HANDLING UNIT SHALL BE PROVIDED WITH ACOUSTICAL DUCT LINER. THIS IS IN ADDITION TO THERMAL INSULATION REQUIREMENTS.		ON THE MECHANICAL SYSTEMS. THE REQU ASCE 7. THE ANCHORAGE OF THE MECHAN CODE AND ASCE 7.
	G. H.	ALL DUCT SYSTEMS ARE TO BE PER U.L. STANDARDS. DUCTS ARE TO BE INSTALLED WITH NO RESTRICTIONS AND AN ABSOLUTE MINIMUM AMOUNT OF AIR LEAKAGE. ALL DUCT INSULATION SHALL BE RUN CONTINUOUSLY THROUGH FLOORS AND PARTITIONS.	35.	MECHANICAL CONTRACTOR SHALL PROVID WHERE REQUIRED FOR FIRE PROTECTION & RESET ALL SUCH DAMPERS AND/OR ACT
	I.	ALL DUCTWORK SHALL BE GALVANIZED SHEET METAL CONSTRUCTED IN ACCORDANCE WITH THE LATEST SMACNA STANDARDS. ALL SUPPLY, RETURN, AND OUTSIDE AIR DUCTWORK SHALL BE WRAPPED WITH 2" THICK DUCT WRAP WITH	36.	ON MAKING PIPE CONNECTIONS TO EQUIP OPENING OF ACCESS DOORS.
		VAPOR BARRIER. INSUALTION (INCLUDING FLEXIBLE DUCT INSULATION) SHALL HAVE A MINIMUM INSTALLED R-VALUE OF 6. ROOFTOP UNIT RETURN DUCT SHALL BE LINED WITH 1" THICK FIBERGLASS DUCT LINER FOR ACOUSTICAL PURPOSES. DUCT DIMENSIONS ON PLANS ARE FREE AREA SIZE.	37.	THE VENDOR AND/OR CONTRACTOR IS RE VENDOR/CONTRACTOR SHALL PROVIDE A COMPLETE FUNCTIONALITY OF THE CONT
	J.	ALL DUCTWORK SHALL BE SEALED PER THE REQUIREMENTS OF THE CURRENT APPLICABLE MECHANICAL CODE. SEAL LOW PRESSURE SUPPLY, RETURN, AND EXHAUST DUCTWORK FOR POSITIVE/NEGATIVE 2" PRESSURE CLASS, SMACNA SEAL CLASS A, SMACNA LEAKAGE CLASS 4.	38.	ELECTRICAL CONTRACTOR TO PROVIDE AI SWITCHES, FUSES, ETC. TO ALL MECHANIC ARE BY ELECTRICAL CONTRACTOR. MECH
14.	<u>pipin</u> A.	IG CONDENSATE DRAINS SHALL BE SCHEDULE 40 PVC OR TYPE L COPPER WITH SOLDERED JOINTS WHEN INSTALLED BELOW CEILING LEVEL. DRAINS INSTALLED IN A RETURN AIR PLENUM SHALL BE TYPE L COPPER WITH SOLDERED JOINTS	39.	APPROVED MECHANICAL EQUIPMENT WITH PRIOR TO BEGINNING ANY WORK, MECHAN ARCHITECT OR ENGINEER IF THE MECHAN
	В.	OR SCHEDULE 40 CPVC. REFRIGERANT PIPING SHALL BE TYPE ACR WROUGHT COPPER WITH WROUGHT COPPER FITTINGS AND BRAZED JOINTS.	40.	MECHANICAL CONTRACTOR SHALL PROVID ALL INSTALLED EQUIPMENT AND MATERIA THE OWNER WITH TWO COPIES OF OPERA
	C. D.	REFRIGERANT COMPONENTS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH ASHRAE 15.		& INSTALLER'S WARRANTIES AND TRAINING
	D.	OF WORK. COORDINATE ROUTING AND INSTALLATION WITH THE GENERAL CONTRACTOR. SIZE REFRIGERANT LINES PER MANUFACTURER'S REQUIREMENTS.		
	E.	ALL PIPING AND DUCTWORK LOCATIONS SHALL BE COORDINATED WITH THE WORK UNDER OTHER TRADES/CONTRACTORS TO AVOID INTERFERENCE.		
	F.	LOCATE PIPING, DUCTWORK, AND MECHANICAL EQUIPMENT AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS, RACEWAYS, TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT.		
15.	INSU	LATION		
	A.	DUCT LINER - FIBROUS GLASS DUCT LINER, WITH COATED SURFACE EXPOSED TO AIR STREAM. APPLY WITH MECHANICAL FASTENERS AND 100% COVERAGE OF ADHESIVE. LINER TO BE COATED WITH AN EPA REGISTERED ANTI-MICROBIAL AGENT. DUCT INSULATION VALUE IS TO BE MIN. R-6 WHEN LOCATED WITHIN THE CONDITIONED BUILDING ENVELOPE; MIN. R-8 WHEN LOCATED IN THE ATTIC, OUTSIDE THE BUILDING ENVELOPE OR UNCONDITIONED SPACES. DUCT LINER USED FOR ACOUSTICAL PURPOSES ONLY SHALL BE 1" THICK.		
	B.	DUCT WRAP - MINERAL FIBER BLANKET, WITH REINFORCED FOIL AND PAPER VAPOR RETARDANT JACKET. APPLY WITH MECHANICAL FASTENERS AND ADHESIVE. DUCT INSULATION IS TO BE MIN. R-6 WHEN LOCATED WITHIN THE CONDITIONED BUILDING ENVELOPE; MIN. R-8 WHEN LOCATED IN THE ATTIC, OUTSIDE THE BUILDING ENVELOPE OR UNCONDITIONED SPACES.		
	C.	INTERIOR CONDENSATE DRAINS - INSULATE CONDENSATE DRAINS LOCATED IN THE ATTIC, EXTERIOR WALLS OR UNCONDITIONED SPACES WITH 1/2" THICK FLEXIBLE ELASTOMERIC PIPE INSULATION.		
	D.	REFRIGERANT SUCTION LINES - INSULATE WITH 1" THICK FLEXIBLE ELASTOMERIC PIPE INSULATION. PROVIDE ALUMINUM JACKET OVER INSULATION FOR ALL EXTERIOR REFRIGERANT PIPING.		

, EXTENDING THROUGH WALLS & ROOF SHALL BE FLASHED & COUNTER-FLASH	ED IN A
NINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AI NS TO JANITORS SINK, FLOOR DRAIN, SPLASH BLOCK OR AS REQUIRED PER CO SHALL BE PROVIDED W/ A DEEP SEAL TRAP. SLOPE CONDENSATE DRAIN PIPING	DE. DRAINS
TE ALL THERMOSTATS, SWITCHES AND OTHER CONTROL DEVICES AT 4'-0" ABO' TIC CONTROL DEVICE FOR EVERY DEVICE REQUIRING ONE WHETHER SHOWN O EAS: LOCATE ALL THERMOSTATS, SWITCHES AND OTHER CONTROL DEVICES A D DWELLING UNITS; 4'-0" TO TOP OF DEVICE FOR ACCESSIBLE UNIT TYPES. FUR CE FOR EVERY DEVICE REQUIRING ONE WHETHER SHOWN ON DRAWINGS OR N E MOUNTED ON A FOAM-FILLED ELECTRICAL BOX, WITH ALL GAPS BETWEEN BC ION.	DN DRAWINGS OR T 4'-0" TO ABOVE NISH OT. ANY DEVICE
ALLED PER CODE & MANUFACTURER'S REQUIREMENTS FOR PROPER OPERATIO	N AND
T SHALL BE A MINIMUM 10'0" FROM EDGE OF ROOF. UNLESS NOTED OTHERWISE	<u>.</u>
HALL BE U.L. LISTED AND LABELED AS A COMPLETE PACKAGE, NOT THROUGH IN IDE REQUIRED 3RD PARTY FIELD UL LISTING SERVICES AS REQUIRED TO COMP	
R SHALL BALANCE ALL MECHANICAL SYSTEMS TO THE PERFORMANCE PLANS AND PROVIDE THE ENGINEER WITH A DIGITAL COPY OF A REPORT. THE REPORT IS TO BE ISSUED A MINIMUM OF TWO WEEKS PRIOR TEST AND BALANCE REPORT WILL BE SUBJECT TO REVIEW AND APPROVAL WAL TESTING, ADJUSTING AND BALANCING REQUIRED (AT ENGINEER'S IE INITIAL REPORT SHALL BE PROVIDED AT NO ADDITIONAL COST. TESTING TO CONFIRM FILTERS ARE CLEAN, AND FREE OF DEBRIS PRIOR TO WICAL CONTRACTOR SHALL REPLACE ANY DIRTY FILTERS, AS NEEDED. IN BE COMPLETED BY AN INDEPENDENT, CERTIFIED TEST AND BALANCE	
HANICAL SYSTEMS WITHIN THIS SCOPE OF WORK SHALL BE BY THE MECHANICA	AL CONTRACTOR.
L BE INSTALLED IN THE RETURN AIR DUCT OR PLENUM UPSTREAM OF ANY FILT UPON ACTIVATION THE SMOKE DETECTOR SHALL SHUT DOWN THE AIR HANDLI DLINA MECHANICAL CODE 606. * IF THERE IS A FIRE ALARM SYSTEM: DETECTOR ELECTRICAL CONTRACTOR, INSTALLED BY THE MECHANICAL CONTRACTOR. AC INITIATE A VISIBLE AND AUDIBLE SUPERVISORY SIGNAL AT A CONSTANTLY ATT FIRE ALARM SYSTEM: DETECTORS SHALL BE FURNISHED, WIRED AND INSTALLE INVATION OF THE DUCT SMOKE DETECTOR SHALL INITIATE A VISIBLE AND AUDIE ISTANTLY ATTENDED LOCATION.	NG UNIT AS S SHALL BE TIVATION OF THE ENDED D BY THE
RS FOR ALL AIR HANDLING EQUIPMENT AT SUBSTANTIAL COMPLETION.	
VEEN OUTDOOR AIR INTAKES AND EXHAUST FAN DISCHARGE AND PLUMBING VE	ENTS, ETC. FIELD
AD FOR ALL GROUND MOUNTED OUTDOOR MECHANICAL UNITS. PADS SHALL BE S.	MINIMUM 6"
RE OR THROUGH JOIST WEBS WHERE POSSIBLE & WHERE REQUIRED TO MAINT D/OR TRANSITIONS IN DUCT WHERE REQUIRED WITH MAX. 45° DEG. ELBOWS. M M AS REQUIRED. NO BACK TO BACK 90° DEG. ELBOWS ALLOWED.	
SIZED & INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMEN	DATIONS AND
LED ACCORDING TO NUMBERING / IDENTIFICATION SYSTEM PER PLANS.	
LL PROVIDE PRE-PRINTED COLOR-CODED PIPE LABELS WITH 1-1/2" HIGH LETTE PLASTIC PIPE LABELS UTILIZED IN A RETURN AIR PLENUM SHALL BE LISTED/AP ALL PIPING TO MATCH EXISTING FACILITIES STANDARD (IF APPLICABLE).	
REQUIRED TO MEET ASCE 9.6.	TAC
SHALL BE RESPONSIBLE FOR PROVIDING RESTRAINTS TO RESIST THE EARTHO THE REQUIREMENTS FOR THOSE RESTRAINTS ARE FOUND IN THE LOCAL BUILD E MECHANICAL SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF THE LO	DING CODE AND
LL PROVIDE U.L. LISTED FIRE DAMPERS, RADIATION DAMPERS AND/OR FIRE/SM OTECTION AS REQUIRED BY LOCAL CODES. M.C. SHALL PROVIDE A MEANS OF A ID/OR ACTUATORS.	
TO EQUIPMENT, CARE SHOULD BE TAKEN TO ARRANGE PIPES SO AS NOT TO IN	
TOR IS RESPONSIBLE FOR THE CONFIGURATION AND SETUP OF ALL THE CONT ROVIDE A CONTROL SYSTEM NARRATIVE. THIS NARRATIVE SHALL DEFINE THE (1 11
THE CONTROL SYSTEM.	
ROVIDE ALL HIGH VOLTAGE (120V AND GREATER) ELECTRICAL WIRING, CONDU MECHANICAL EQUIPMENT WITHIN THIS SCOPE OF WORK. ALL FINAL ELECTRICA OR. MECHANICAL CONTRACTOR SHALL COORDINATE ELECTRICAL REQUIREMEN MENT WITH THE ELECTRICAL CONTRACTOR.	LCONNECTIONS
K, MECHANICAL CONTRACTOR IS RESPONSIBLE TO NOTIFY THE OWNER'S REPR E MECHANICAL DESIGN CONFLICTS WITH EXISTING OR UNFORESEEN FIELD COM	,
ALL PROVIDE A MIN. OF FOUR COPIES OF SHOP DRAWINGS TO THE ARCHITECT/E MATERIALS NEEDING APPROVAL PRIOR TO PURCHASING. IN ADDITION, M.C. SH	
OF OPERATION & MAINTENANCE MANUALS FOR ALL INSTALLED EQUIPMENT, MA D TRAINING FOR CONTROLS OF ALL SUCH EQUIPMENT.	
	EF-

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MFC	HANICAL LEGE	=ND				M0.1	MECHANICAL LEC	GENDS AND NOTES				P: 919.526.0989 sharpeengineers.com
						M0.2	MECHANICA	L DEMO PLAN				.526 engir
SYMBOL	DESCRIPTION					M1.1	MECHAN	IICAL PLAN				919 arpe
T	THERMOSTAT (HONEWELL VISION EQUAL) WITH KEY LOCKING GUARI										8	ъ. ę.
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	CEILING RETURN DIFFUSER		-									63
	SPIRAL DUCT SUPPLY DIFFUSER		-								NG N	NC 27593 P-2821
	RECTANGULAR METAL DUCT		-									G 1ills, NC se # P-;
	ROUND METAL/SPIRAL DUCT		-									P.O. Box G Wilsons Mills, NC License # I
		AKEOFF WITH								S	DISCLAIM THESE DRAWINGS, TH PECIFICATIONS MANU DESIGN ARE INSTRU	IER HE PROJECT AL, AND THE MENTS OF
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AH HP	AIR HANDLER HEAT PUMP		-								SEAL	
AC	AIR CONDITIONING UNIT		-								056419	
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REL	RELOCATE		-									10-2-24
VD	VOLUME DAMPER		_									
AFF	ABOVE FINISHED FLOOR		-								Z	
GC	GENERAL CONTRACTOR		-								ō	
MC	MECHANICAL CONTRACTOR		-								SI	
COMPRESSOR # C		HSPF VC	OLT / PHASE / HZ 230/1/60 GUNIT SENSIBLE	MCA (AMPS) - SCHED	MOCP WEIGH OULE /OLT / PHASE / HZ 230/1/60	· · ·	MOCP W	/EIGHT(LBS) RE -	MARKS 1		DESIGN FOR: MANUFACTURED HOME OFFICE CONVERSION	371 ARCHIE STREET SPRING LAKE, NC
(CFM) E.S.P IN W.G	FAN SCHED	ULE	VOLT/PHASE/HZ	MCA (AMPS)	CONTF	301	REMARKS]		RE NC 1 2 3	V. DATE DES	CRIPTION
(CFM) E.S.P IN W.G 0.125		CEILING MOUNT	VOL1/PHASE/HZ 115 / 1 / 60	0.3	CONTR WALL SWITCH / C			-		5		
0.125	1.4 EXHAUST	GEILING MOUNT	115/1/00	0.3	WALL SWITCH/(JUU. SENSUR	١,૮,٥			e		

ISS. NO.

DATE DESCRIPTION

1 10-2-24 FOR PERMITTING

PROJECT NO.: DRAWN BY: 24-110 DRAWN BY: DBAS CHECKED BY: DBAS

LEGENDS AND NOTES

MECHANICAL

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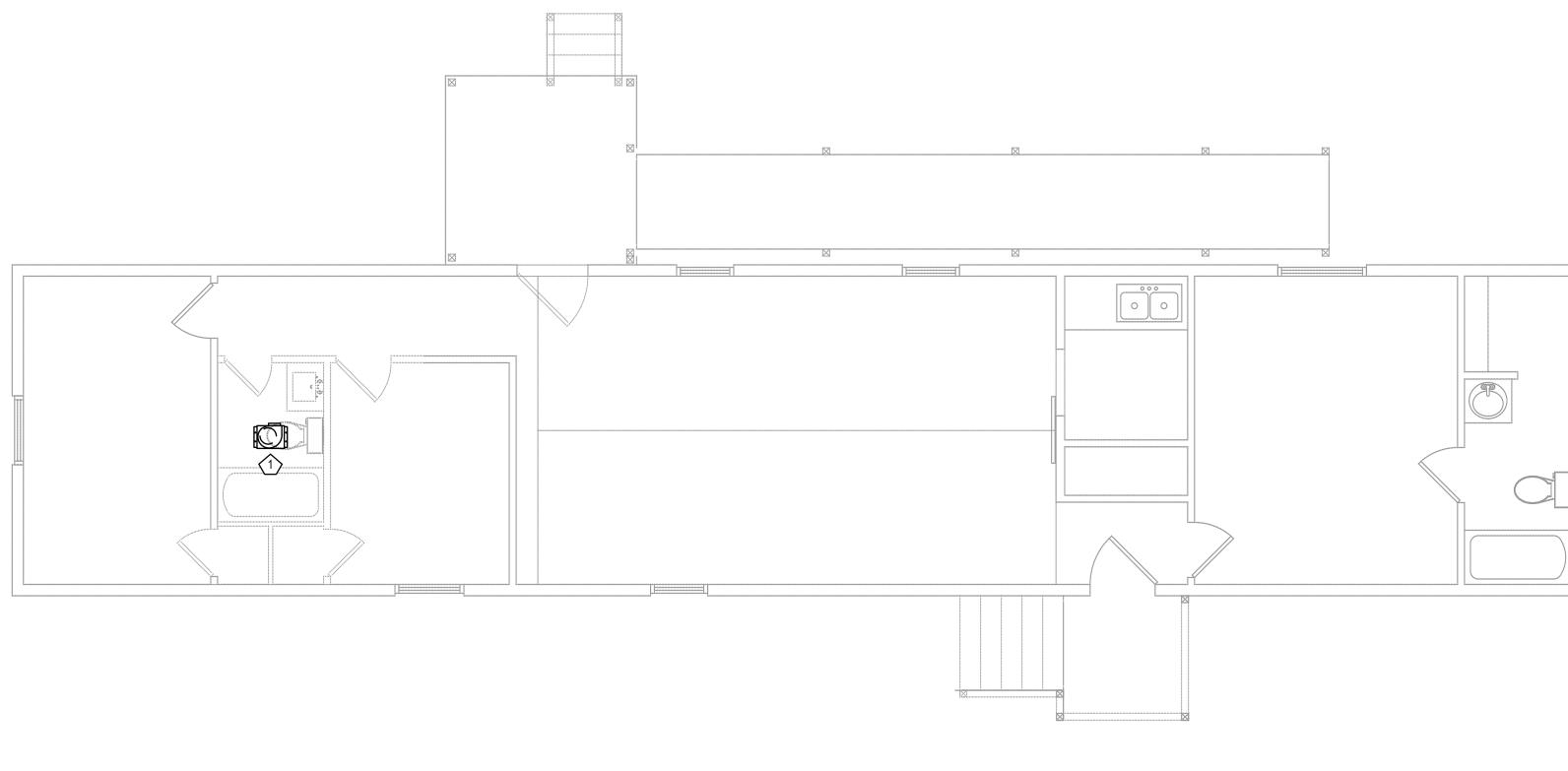
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EF-1 GREENHECK SP-A90 75 0.125 1.4 EXHAUST CEILING MOUNT 115 / 1 / 60 0.3 WALL SWITCH / OCC. SENSOR 1,2,3												(S		5

		MECHANICAL DRAWING INDEX	& CONSULTING, PLIA P: 919.526.0989 sharpeengineers.com
MECI	HANICAL LEGEND	M0.1 MECHANICAL LEGENDS AND NOTES	NIT. NO.
		M0.2 MECHANICAL DEMO PLAN	ISUI SUI
SYMBOL	DESCRIPTION	M1.1 MECHANICAL PLAN	915 P15
	THERMOSTAT (HONEWELL VISION PRO 8000 OR EQUAL) WITH KEY LOCKING GUARD COVER		<u>بة ب</u>
	CEILING SUPPLY DIFFUSER		
	CEILING RETURN DIFFUSER		
	SPIRAL DUCT SUPPLY DIFFUSER		IC 27593
	RECTANGULAR METAL DUCT		P.O. Box G Wilsons Mills, NC License # 1
	ROUND METAL/SPIRAL DUCT		P.O.
			DISCLAIMER
	MAIN TRUNK AND BRANCH DUCT TAKEOFF WITH		
	VOLUME DAMPER		THESE DRAWINGS, THE PROJECT SPECIFICATIONS MANUAL, AND TH
			DESIGN ARE INSTRUMENTS OF SERVICE ONLY AND REMAIN THE
	FLEX DUCT		PROPERTY OF SHARPE ENGINEERIN & CONSULTING, PLLC. THE
	1" DOOR UNDER CUT		REPRODUCTION AND/OR UNAUTHORIZED USE OF THESE
)))	TURNING VANES		DOCUMENTS WITHOUT THE EXPRES WRITTEN PERMISSION OF SHARPE
	SMOKE DUCT DETECTOR	-	ENGINEERING & CONSULTING, PLL IS PROHIBITED.
SA RA	SUPPLY AIR RETURN AIR	4	
EA	EXHAUST AIR	-	
OA	OUTSIDE AIR		
CFM	CUBIC FEET PER MINUTE		RTH CARO
AH	AIR HANDLER		SEAL SEAL
HP	HEAT PUMP		SEAL 056419
AC	AIR CONDITIONING UNIT	-	WGINFER ON
RTU BDD	ROOFTOP UNIT BACK DRAFT DAMPER	-	B.A. SHAMMIN
REL	RELOCATE		Jo-2-24
VD	VOLUME DAMPER	1	
AFF	ABOVE FINISHED FLOOR		Z
GC	GENERAL CONTRACTOR		/ERSION
MC	MECHANICAL CONTRACTOR		S S
			IGN FOR: OME OFFICE CONVE ARCHIE STREET ARCHIE STREET ARCHIE STREET
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AHU-1 EXISTING TO REMAIN 2.5 -		230/1/60 1	
1. UNIT IS EXISTING TO REMAIN. MC TO CLEAN AND INSPECT AND VERIFY IN GOOD AND) WORKING ORDER.		
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	FAN SCHEDULE		
TAG MANUFACTURER MODEL AIRFLOW (CFM) E.S.P IN W.G	SONES FAN TYPE MOUNT	VOLT/PHASE/HZ MCA (AMPS) CONTROL REMARKS	
EF-1 GREENHECK SP-A90 75 0.125	1.4 EXHAUST CEILING MOUNT	115 / 1 / 60 0.3 WALL SWITCH / OCC. SENSOR 1,2,3	6

1. PROVIDE INTEGRAL BACKDRAFT DAMPER 2. PROVIDE FAN SPEED CONTROL IF REQUIRED TO MEET SPECIFIED CFM RATING. 3. COORDINATE LINE VOLTAGE AND CONTROL WIRING TERMINATIONS WITH ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN INSTALLATION

	VENTILATI	ON SUMMA	RY
AREA	SQUARE FOOTAGE (FT ²)	OPERABLE OPEN AREA REQUIRED PER NCMC 402.2	OPERABLE OPEN AREA PROVIDED BY DOORS/WINDOWS
OFFICE/TOILET	854	34.16	123.50

\bigcirc	DEMO KEYNOTE LEGEND
KEY VALUE	KEYNOTE TEXT
1	DEMO EXISTING EXHAUST FAN AND DUCTWORK. MAINTAIN EXISTING PENETRATION TO EXTERIOR.



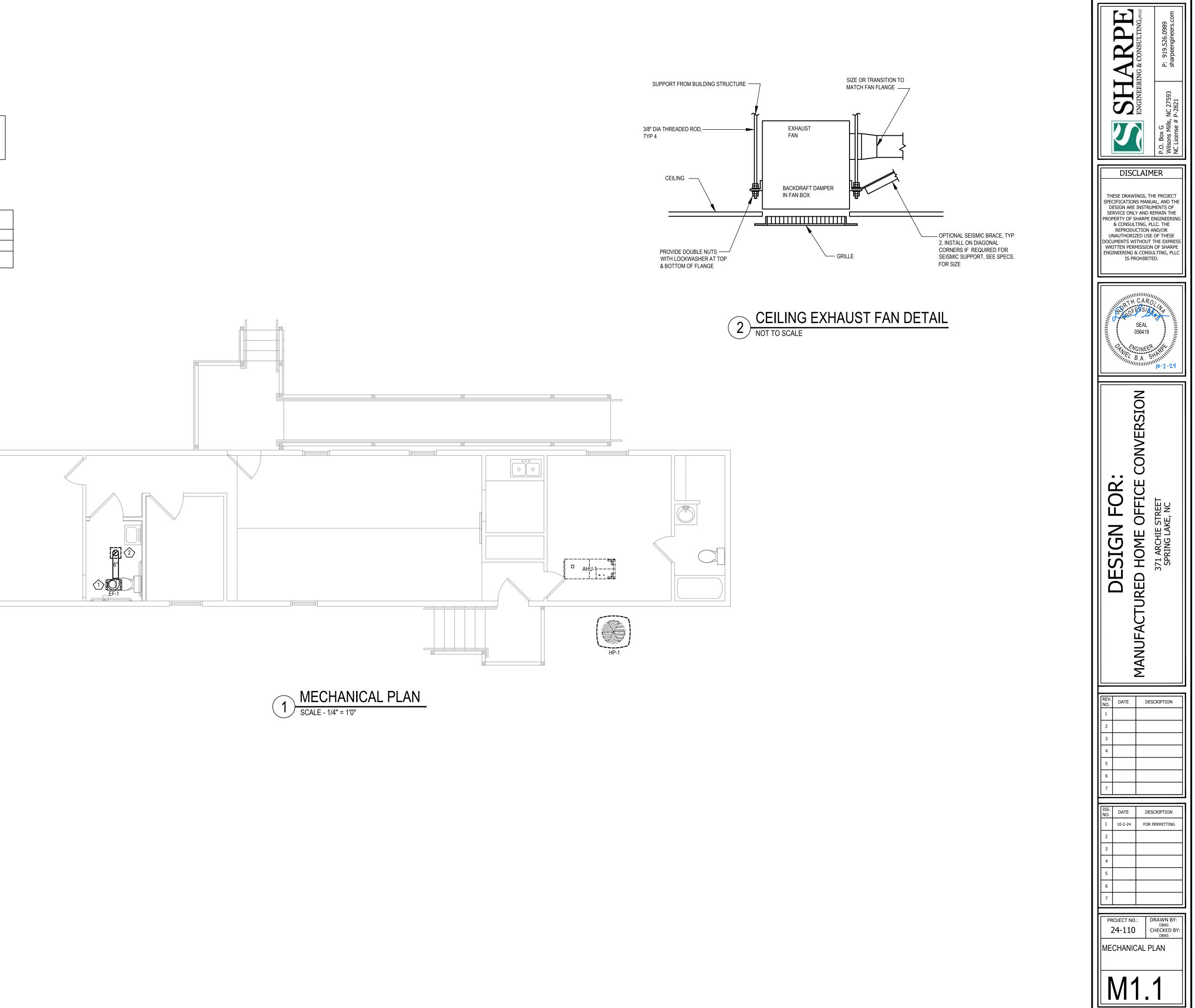
1 MECHANICAL DEMO PLAN SCALE - 1/4" = 1'0"

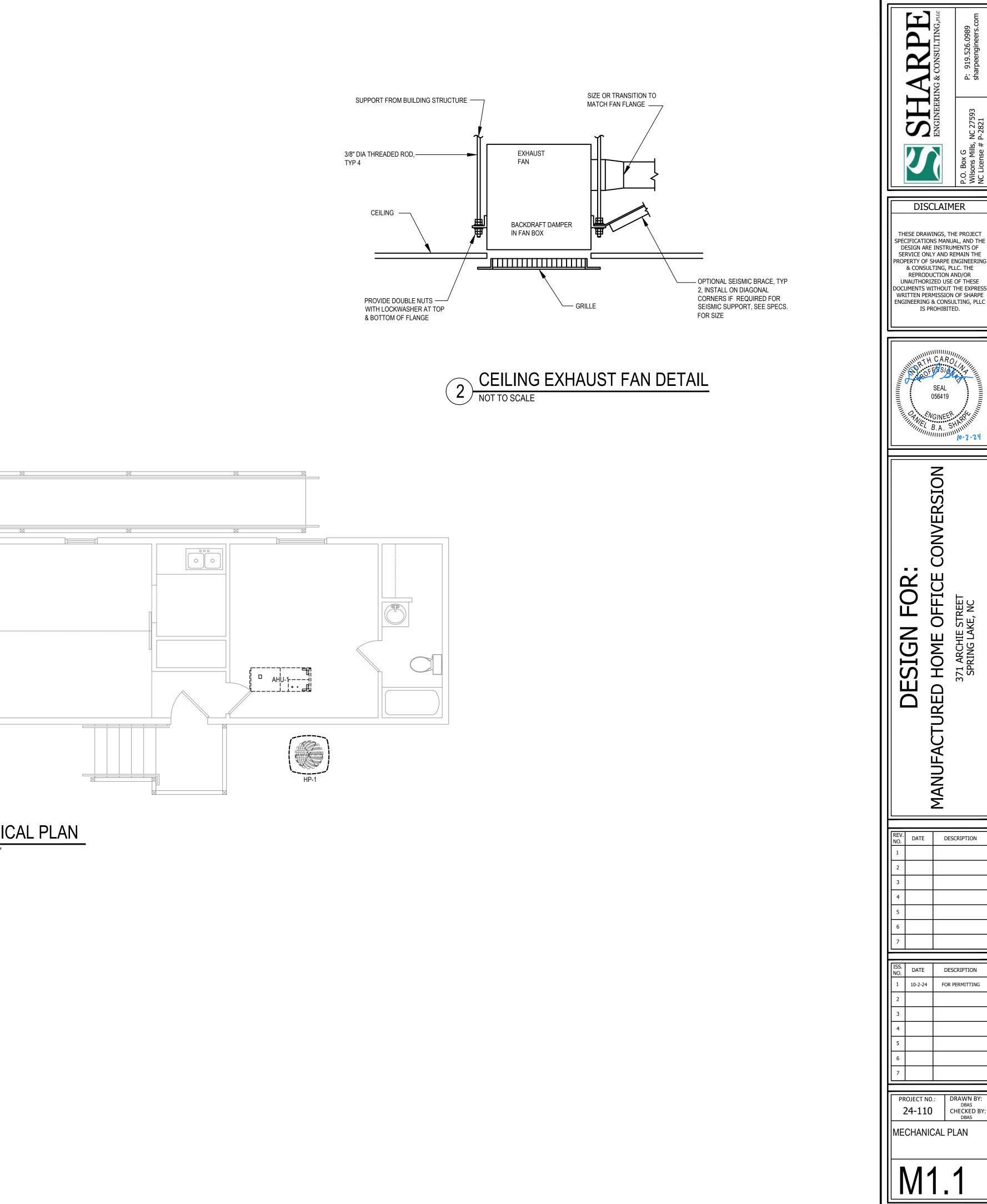
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SEAL 056419 NATH CAROLINA SEAL 056419
DESIGN FOR: MANUFACTURED HOME OFFICE CONVERSION 371 ARCHIE STREET SPRING LAKE, NC
REV. NO. DATE DESCRIPTION 1
ISS. NO.DATEDESCRIPTION110-2-24FOR PERMITTING2
PROJECT NO.: 24-110 MECHANICAL DEMO PLAN DRAWN BY: DBAS CHECKED BY: DBAS DBAS CHECKED BY: DBAS DBAS

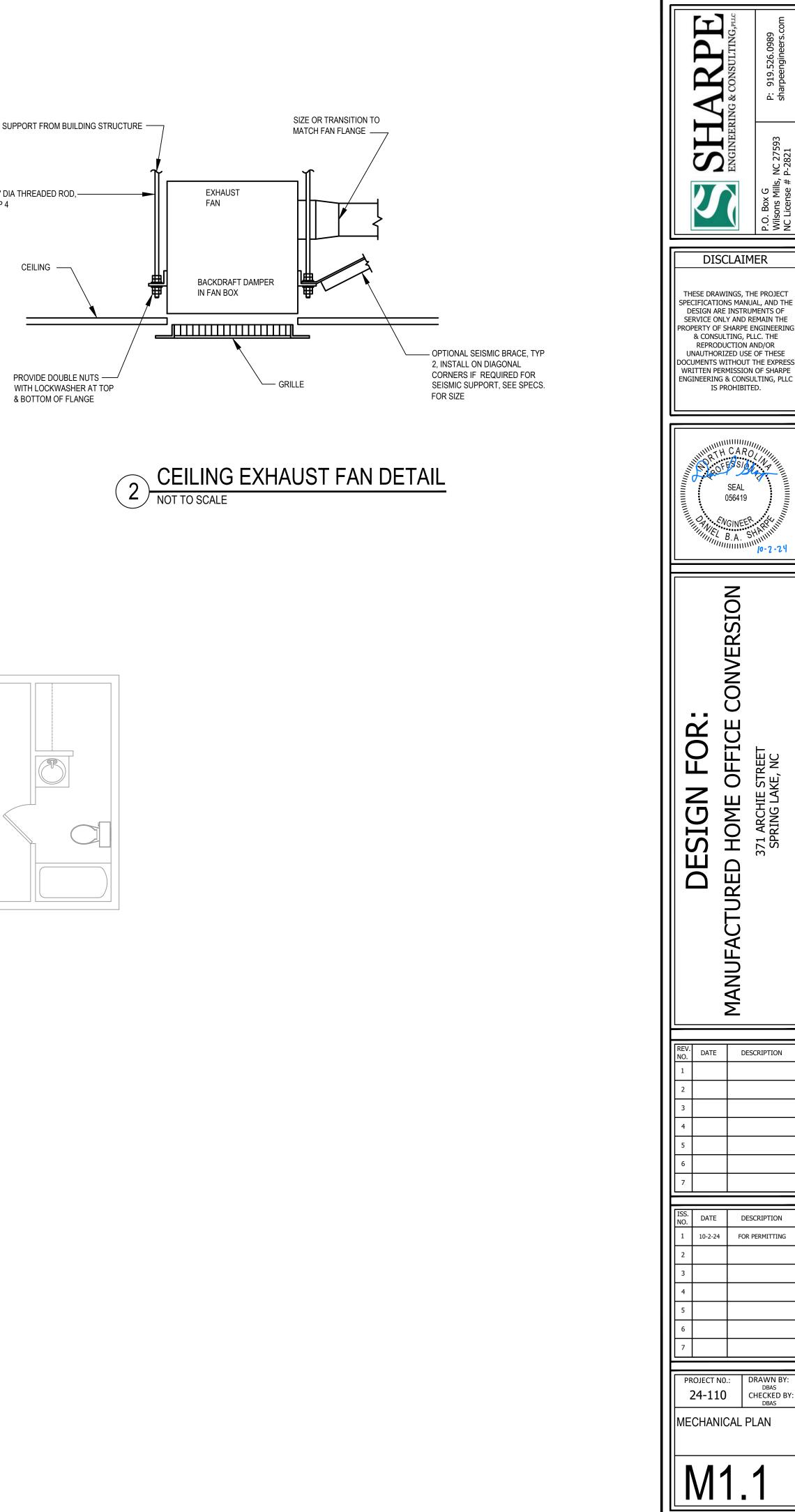
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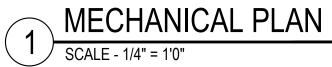
SCOPE OF WORK IS LIMITED TO RE-WORKING EXISTING BATHROOM EXHAUST FAN. ALL OTHER HVAC, SYSTEMS, ETC. ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.

🖒 Me	CHANICAL KEYNOTE LEGEND
KEY VALUE	KEYNOTE TEXT
1	CONTRACTOR TO INSTALL NEW EXHAUST FAN AS SHOWN.
2	ROUTE EXHAUST DUCT IN ATTIC SPACE TO EXISTING ROOF PENETRATION FROM PREVIOUS FAN.









GENERAL ELECTRICAL NOTES

G37. PRIOR TO ORE G2. ALL MATERIAL, EQUIPMENT AND APPLIANCES SHALL BE NEW, LABELED AND LISTED FOR ITS INTENDED USE BY A QUALIFIED THIRD-PARTY ELECTRICAL TESTING ENGINEER FC LABORATORY (I.E. UL, ETL, ETC.) AND THE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION PER NEC ARTICLES 90.7, 110.2 AND 110.3. WHERE UNDERWRITER'S REGARDLESS LABORATORIES LABELING IS AVAILABLE FOR THE CLASS OF MATERIAL INVOLVED, MATERIALS SHALL BE FURNISHED WITH A UL LABEL OR LISTING. OR THE ELECTRICAL CONTRACTOR SHALL PROVE IT IS NOT REQUIRED. G3. ALL ELECTRICAL PERMITS AND INSPECTION FEES SHALL BE OBTAINED AND PAID FOR BY THE ELECTRICAL CONTRACTOR. G4. ELECTRICAL CONTRACT DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF ELECTRICAL EQUIPMENT. DO NOT SCALE ELECTRICAL PLANS. OBTAIN ALL DIMENSIONS FROM THE ARCHITECT'S DIMENSIONED DRAWINGS AND FIELD MEASUREMENTS. THE CONTRACTOR SHALL REVIEW ARCHITECTURAL PLANS FOR DOOR SWINGS AND BUILT-IN EQUIPMENT; CONDITIONS INDICATED ON THOSE PLANS SHALL GOVERN FOR THIS WORK. IT IS NOT WITHIN THE SCOPE OF WORK TO SHOW ALL NECESSARY RACEWAY ROUTING, BENDS, OFFSETS, PULL BOXES AND OBSTRUCTIONS. CONTRACTOR SHALL COORDINATE THE FINAL LOCATION OF EQUIPMENT AND WIRING DEVICES WITH OTHER TRADES PRIOR TO INSTALLATION AND INSTALL ALL WORK TO CONFORM TO THE OWNER REQUIREMENTS. G5. NO ALLOWANCE SHALL BE MADE FOR CONTRACTORS FAILURE TO COORDINATE WITH ALL TRADES PRIOR TO ANY WORK INCLUDING BUT NOT LIMITED TO THE NUMBER OF SETS: ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, UTILITIES, AND SITE WORK. G6. VERIFY ALL UTILITY REQUIREMENTS FOR ELECTRICAL SERVICE (PRIOR TO STARTING ANY WORK) SUCH AS VOLTAGE, PHASES, FAULT CURRENT, ETC... AND COORDINATE EXACT LOCATION OF INCOMING ELECTRICAL SERVICE WITH LOCAL POWER COMPANY PRIOR TO PROJECT START. NOTIFY ENGINEER OF ANY DIFFERENCES FROM WHAT IS SHOWN ON PLANS. G7. ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR ONE YEAR EFFECTIVE FROM THE DATE OF SUBSTANTIAL COMPLETION. G8. A COMPLETE GROUNDING SYSTEM SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH ARTICLE 250 OF THE NEC, AND AS SHOWN ON THE DRAWINGS. G9. ALL CUTTING AND PATCHING REQUIRED FOR INSTALLATION OF ELECTRICAL EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. DO NOT CUT ANY MATERIAL THAT WILL WEAKEN THE STRUCTURE WITHOUT WRITTEN PERMISSION OF THE ARCHITECT. PATCHING SHALL BE ACCOMPLISHED TO MATCH ADJACENT SURFACES IN EVERY RESPECT. ENGAGE ORIGINAL INSTALLER FOR CUTTING/PATCHING OF ROOFS. G10. PROVIDE A TYPED DIRECTORY IN ALL PANELBOARDS CLEARLY DESCRIBING THE LOCATION AND TYPE OF LOAD SERVED FOR ALL CIRCUITS. G11. THE ELECTRICAL CONTRACTOR SHALL REQUEST A SELECTIVE BREAKER COORDINATION STUDY FROM THE ELECTRICAL GEAR MANUFACTURER PER NEC 700 REQUIREMENTS. G12. PROVIDE ENGRAVED PHENOLIC NAMEPLATES FOR ALL PANELBOARDS AND DISCONNECT SWITCHES. WHITE LETTERS ON BLACK BACKGROUND, NAMEPLATE SHALL CONTAIN EQUIPMENT DESIGNATION, VOLTAGE, FEEDER SOURCE, AIC RATING & DATE INSTALLED. G13. PROVIDE "FLASH HAZARD" LABELS FOR ALL PANELBOARDS IN ACCORDANCE WITH NEC REQUIREMENTS. G14. ALL TERMINALS/LUGS SHALL BE 60 DEGREE/75 DEGREE RATED. G15. FUSES 0-600 AMPS SHALL BE UL CLASS "RK-5" LOW PEAK DUAL ELEMENT TIME DELAY WITH 200,000 AMPERE INTERRUPTING RATING AS MANUFACTURED BY BUSSMAN UNLESS NOTED OTHERWISE. G16. ALL WATER HEATERS SHALL HAVE DISCONNECT SIZED PER 422.11(E)(3). RETURN PLENUMS. G17. ELECTRICAL CONTRACTOR SHALL MAKE ALL FINAL ELECTRICAL CONNECTIONS TO EQUIPMENT REGARDLESS OF WHO SUPPLIES THE EQUIPMENT. THIS INCLUDES ALL HVAC, PLUMBING AND OWNER FURNISHED EQUIPMENT CONNECTIONS OF 120V OR HIGHER. G18. RACEWAYS SHALL BE INSTALLED CONCEALED IN NEW WALL CONSTRUCTION, ABOVE CEILINGS, BELOW FLOOR, AND IN OTHER CAVITIES TO THE GREATEST EXTENT POSSIBLE. WHERE EXPOSED RACEWAYS MUST BE USED, LAYOUT RACEWAYS TO MINIMIZE THE NUMBER OF VERTICAL RUNS. G19. ALL EXPOSED RACEWAY SHALL BE RUN PARALLEL OR PERPENDICULAR TO THE BUILDING SURFACES AND SHALL BE PAINTED AS DIRECTED BY THE ARCHITECT. NO EXPOSED CONDUIT SHALL BE ALLOWED IN FINISHED SPACES EXCEPT AS PERMITTED BY OWNER OR ARCHITECT. EXPOSED RACEWAY IN FINISHED SPACES SHALL BE WIREMOLD TYPE. G20. BEFORE COMMENCING WITH ANY ROUGH-IN, COORDINATE THE EXACT LOCATION AND MOUNTING HEIGHT OF ALL WALL MOUNTED DEVICES WITH THE ARCHITECTURAL INTERIOR ELEVATIONS, CASEWORK SHOP DRAWINGS, AND EXISTING CONDITIONS. IF ANY DISCREPANCIES ARE DISCOVERED, NOTIFY THE ARCHITECT FOR FURTHER DIRECTION. MINOR ADJUSTMENTS IN DEVICE LOCATION, I.E. 5'-0" IN ANY DIRECTION SHALL BE DONE AT NO ADDITIONAL COST TO THE CONTRACT. G21. ALL WIRING SHALL BE INSTALLED IN IMC. RMC. EMT OR TYPES AC AND MC FLEXIBLE CABLES, RNC CONDUIT (PVC), SHALL ONLY BE USED UNDERGROUND AND OUTDOORS, WHERE NOT SUBJECT TO PHYSICAL DAMAGE. MINIMUM SIZE CONDUIT SHALL BE 3/4". AC AND MC FLEXIBLE CABLES SHALL BE USED ONLY IN AREAS PERMITTED BY CODE. INDOOR BRANCH CIRCUIT WIRING MAY BE TYPE NM, NMC, OR NMS FOR DWELLING UNITS OR OTHER BUILDINGS PERMITTED TO BE OF TYPES III, IV OR V CONSTRUCTION. DWELLING UNIT SERVICE FEEDERS MAY BE TYPE SE OR USE CABLES IN AREAS PERMITTED BY CODE. AMPACITY FOR SE AND USE CABLES SHOWN ON THE SER FEEDER SCHEDULE INCLUDED IN THESE DRAWINGS IS BASED ON THE 60 C AMPACITY OF TABLE 310.15(B)(16) FOR INSTALLATION IN INSULATION. SHOULD SER CABLE NOT BE IN CONTACT WITH INSULATION CONTACT ENGINEER FOR REVISED FEEDER SIZES (IN INSULATION SHALL BE AS DEFINED IN ARTICLE 310.15(A)(2) AND AS DETERMINED BY THE LOCAL AHJ). ALL SER FEEDERS LOCATED WITHIN TYPE I AND/OR II BUILDING AREAS (NONCOMBUSTIBLE CONSTRUCTION) SHALL BE RUN IN EMT CONDUIT PER NEC. ONCE THE CONDUIT PENETRATES THE TRANSITION SLAB AND ENTER INTO THE TYPE III, IV OR V CONSTRUCTION THE SER CABLE MAY BE RUN FREELY AS ALLOWED PER NEC. ALL OTHER WIRING IN DWELLING UNITS EXCEEDING 50 AMPERES SHALL BE INSTALLED IN EMT INDOORS OR PVC OUTDOORS, WHERE NOT SUBJECT TO PHYSICAL DAMAGE. G22. ALL FLEX SHALL BE LIQUID TIGHT FLEXIBLE METAL. G23. PROVIDE A PULL WIRE OR FISH TAPE IN ALL EMPTY CONDUITS. PROVIDE A BLANK COVER PLATE OVER ALL UNUSED BOXES INCLUDING DATA/COMM BOXES. G24. WHERE A SINGLE HOMERUN IS SHOWN THE CIRCUIT SHALL BE INSTALLED IN A DEDICATED CONDUIT, DO NOT COMBINE WITH OTHER CIRCUITS. WHERE A CIRCUIT HOMERUN IS NOT SHOWN THE CONTRACTOR SHALL COMBINE CIRCUITS AS FOLLOWS AND IN ACCORDANCE WITH THE NEC: 1. A MAXIMUM OF THREE 20A, 1 POLE BRANCH CIRCUITS MAY BE COMBINED IN COMMON HOMERUN SHARING A COMMON NEUTRAL OR WITH SEPARATE NEUTRALS, FOR A TOTAL OF SIX CURRENT CARRYING CONDUCTORS. ALL BRANCH CIRCUITS LARGER THAN 20A SHALL BE SEPARATELY HOMERUN TO PANEL. 2. EACH MULTIWIRE BRANCH CIRCUIT SHARING A COMMON NEUTRAL SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES. G25. CONDUCTORS SHALL BE COPPER, RATED AT NOT LESS THAN 600 VOLTS. MINIMUM SIZE SHALL BE NO. 12 AWG UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL WIRE #8 AWG AND LARGER SHALL BE STRANDED, #10 THRU #12 AWG CONDUCTORS SHALL BE SOLID. ALL INSULATION TYPES SHALL BE THWN/THHN. FEEDER CIRCUIT CONDUCTORS MAY BE COPPER OR ALUMINUM. G26. 20A/120V BRANCH CIRCUITS EXTENDING UP TO 56' IN LENGTH, FROM PANEL TO FARTHEST DEVICE, SHALL USE AT MINIMUM NO. 12 (CU) CONDUCTORS AND 3/4"C. FOR 20A/120V BRANCH CIRCUITS EXTENDING UP TO 93' IN LENGTH, FROM PANEL TO FARTHEST DEVICE, SHALL USE NO. 10 (CU) CONDUCTORS AND 3/4"C. ANY BRANCH CIRCUIT LENGTHS THAT EXCEED 93', THE ELECTRICAL CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY FOR UPDATED CONDUCTOR AND CONDUIT SIZES. G27. TO PREVENT UNDER-VOLTAGE, THE FEEDERS SHOWN ON THE VOLTAGE DROP TABLE(S) HAVE BEEN SIZED TO COMPENSATE FOR WHEREVER A MAXIMUM TOTAL VOLTAGE DROP ON BOTH FEEDERS AND BRANCH CIRCUITS TO THE FARTHEST DEVICE DOES NOT EXCEED 5%. FOR FEEDER LENGTHS EXCEEDING THE ONE-WAY DISTANCES PROVIDED ON THE VOLTAGE DROP TABLE(S) THE ELECTRICAL CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENGINEER PRIOR TO BIDDING, PURCHASING AND ROUGHING-IN FOR UPDATED CONDUCTOR AND CONDUIT SIZES BASED ON UPDATED VOLTAGE DROP CALCULATIONS. G28. FOR EVERY WIRING DEVICE MARK THE BRANCH CIRCUIT TO WHICH IT IS CONNECTED ON THE BACK OF EACH DEVICE PLATE, USING AN INDELIBLE MARKER PEN. G29. COORDINATE ALL DEVICE AND DEVICE PLATE COLORS WITH OWNER/ARCHITECT. DEVICES AND DEVICE PLATES LOCATED IN CABINETRY SHALL BE A DARK COLOR TO MATCH CABINETRY FINISH. G30. EXACT LOCATION OF ALL FLOOR-MOUNTED OUTLETS SHALL BE COORDINATED WITH THE OWNER/ARCHITECT BEFORE ROUGH-IN. G31. TWO OR MORE ADJACENT POWER OR COMMUNICATION RECEPTACLES SHALL BE GANGED WITH A COMMON FACEPLATE - IF THEY CANNOT BE GANGED THEY SHALL BE INSTALLED WITH A MINIMUM DISTANCE BETWEEN UNITS. G32. WALL RECEPTACLES SHOWN BACK TO BACK MAY BE OFFSET BUT SHALL BE INSTALLED DIRECTLY ADJACENT TO ONE ANOTHER. G33. LIGHT SWITCHES SHALL BE NO MORE THAN 6" FROM EDGE OF DOOR FRAME. G34. WHERE PENETRATIONS ARE MADE THROUGH A REQUIRED FIRE-RESISTIVE WALL, FLOOR, OR PARTITION FOR THE PURPOSE OF RUNNING RACEWAY CARRYING ELECTRICAL, TELEPHONE, TELEVISION, OR LOCAL COMMUNICATION AND/OR SIGNALING CIRCUITS, THE OPENING AROUND THE RACEWAY SHALL BE FIRE STOPPED PER THE STATE BUILDING CODE. COORDINATION WITH THE GENERAL CONTRACTOR SHALL BE MAINTAINED TO ENSURE THAT THIS FIRE STOPPING IS ACCOMPLISHED. USE APPROVED ASSEMBLIES SUCH AS THE FOLLOWING: * CONDUIT PENETRATIONS OF 1,2,3 & 4 HOUR GYP BOARD WALLS - U.L.#WL1001 * CONDUIT PENETRATIONS OF 2,3 & 4 HOUR CONCRETE OR BLOCK WALLS - U.L.#CAJ1001 * CONDUIT PENETRATIONS OF 2,3 & 4 HOUR CONCRETE FLOORS - U.L.#CAJ1001 * CONDUIT PENETRATIONS OF 1 HOUR GYPBOARD CEILING ASSEMBLY - L526 * MULT. CONDUIT PENETRATIONS OF 2,3 & 4 HOUR CONCRETE OR BLOCK WALL OR FLOOR - CAJ1042 G35. IN REQUIRED FIRE RATED WALLS AND PARTITIONS. OPENINGS FOR INSTALLATION OF BOXES SHALL BE IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS INCLUDED WITH THE BOX LISTING. COORDINATE CLOSELY WITH THE GENERAL CONTRACTOR TO ENSURE THAT THE INTEGRITY OF THE U.L. RATING IS MAINTAINED. G36. OUTLET BOXES FOR DEVICES MOUNTED ON OPPOSITE SIDES OF FIRE RATED PARTITIONS SHALL NOT BE MOUNTED IN THE SAME WALL CAVITY. SEPARATE WALL PENETRATIONS BY MOUNTING ON OPPOSITE SIDES OF WALL STUDS OR OTHER VERTICAL STRUCTURAL MEMBER IN THE WALL.

G1. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH 2020 NATIONAL ELECTRICAL CODE WITH N.C AMENDMENTS AND ALL APPLICABLE LOCAL AND STATE CODES.

RDERING ANY EQUIPMENT THE ELECTRICAL CONTRACTOR SHALL PROVIDE SHOP DRAWING SUBMITTALS TO THE OWNER, ARCHITECT AND ELECTRICAL
OR THE LIGHTING FIXTURES, ELECTRICAL GEAR, FIRE ALARM SYSTEM AND OTHER SIMILAR SYSTEMS. SHOP DRAWING SUBMITTALS SHALL BE PROVIDED
IS IF THE EQUIPMENT BEING SUPPLIED IS THE SAME AS WHAT IS SPECIFIED ON THE PLANS.

G38. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING RESTRAINTS TO RESIST THE EARTHQUAKE EFFECTS ON THE ELECTRICAL SYSTEM. THE REQUIREMENTS FOR THOSE RESTRAINTS ARE FOUND IN THE IBC, THE ANCHORING OF THE EQUIPMENT SHALL COMPLY WITH IBC SECTION 1613.

G39. IF DURING THE COURSE OF WORK THE ELECTRICAL CONTRACTOR DISCOVERS A PROBLEM WITH THE PERFORMANCE OF THE INSTALLATION RELATIVE TO THE PLANS AND SPECIFICATIONS OR NEC OR OTHER CODES, THE ELECTRICAL CONTRACTOR SHALL IMMEDIATELY BRING THE PROBLEM TO THE ATTENTION OF THE ARCHITECT AND ENGINEER FOR RESOLUTION PRIOR TO THE EXECUTION OF THE WORK.

G40. SEE PANEL SCHEDULES FOR BRANCH CIRCUIT CONDUCTOR SIZES. THE "WIRE SIZE" COLUMN INDICATES THE SIZE OF THE PHASE (IE HOT) AND NEUTRAL CONDUCTORS. THE EC SHALL SIZE THE EQUIPMENT GROUNDING CONDUCTORS PER NEC TABLE 250.122, THE EC SHALL SIZE THE CONDUIT (IF REQUIRED) PER NEC ANNEX C. THE QUANTITY OF CONDUCTORS IS BASED ON THE "POLE" COLUMN AND FOLLOWS THE PROCESS BELOW, PARALLEL SET QUANTITIES ARE MULTIPLIED BY

120V/277V - 1 POLE

1 - PHASE (IE HOT) - CONDUCTOR SIZE PER "WIRE SIZE" COLUMN IN PANEL SCHEDULE 1 - NEUTRAL - CONDUCTOR SIZE PER "WIRE SIZE" COLUMN IN PANEL SCHEDULE

1 - GROUND - PER NEC TABLE 250.122 CONDUIT SIZED PER NEC ANNEX C (IF REQUIRED)

208V/240V/480V - 2 POLE

2 - PHASE (IE HOT) - CONDUCTOR SIZE PER "WIRE SIZE" COLUMN IN PANEL SCHEDULE 1 - NEUTRAL (EC VERIFY IF REQUIRED FOR INSTALLED EQUIPMENT) - CONDUCTOR SIZE PER "WIRE SIZE" COLUMN IN PANEL SCHEDULE 1 - GROUND - PER NEC TABLE 250.122

CONDUIT SIZED PER NEC ANNEX C (IF REQUIRED)

208V/240V/480V - 3 POLE

3 - PHASE (IE HOT) - CONDUCTOR SIZE PER "WIRE SIZE" COLUMN IN PANEL SCHEDULE 1 - NEUTRAL (EC VERIFY IF REQUIRED FOR INSTALLED EQUIPMENT) - CONDUCTOR SIZE PER "WIRE SIZE" COLUMN IN PANEL SCHEDULE 1 - GROUND - PER NEC TABLE 250.122

CONDUIT SIZED PER NEC ANNEX C (IF REQUIRED)

G41. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH GEAR MANUFACTURER WHERE THE HIGHEST CONTINUOUS TRIP SETTING FOR WHICH THE ACTUAL DEVICE INSTALLED IN A CIRCUIT BREAKER IS RATED OR CAN BE ADJUSTED IS 1200A OR HIGHER SHALL HAVE ARC ENERGY REDUCTION IN ACCORDANCE WITH NEC 240.87.

G42. COLOR CODE CONDUCTORS PER NEC. FEEDERS SHALL BE IDENTIFIED IN ACCORDANCE WITH NEC 215.12. USE BLACK AND RED FOR PHASES A AND B RESPECTIVELY ON 120/240 VOLT SINGLE-PHASE SYSTEMS AND WHITE FOR THE NEUTRAL. USE BLACK, RED, AND BLUE FOR PHASES A, B, AND C RESPECTIVELY ON 208Y/120 VOLT THREE-PHASE Y SYSTEMS AND WHITE FOR THE NEUTRAL. ISOLATED GROUND WIRES SHALL BE GREEN WITH YELLOW BANDS OR STRIPES. USE BROWN, ORANGE, AND YELLOW FOR PHASES A. B, AND C RESPECTIVELY FOR 480Y/277 VOLT THREE-PHASE Y SYSTEMS AND GRAY FOR THE NEUTRAL. ON 4 WIRE DELTA CONNECTED SYSTEMS WHERE THE MIDPOINT OF ONE PHASE WINDING IS GROUNDED, THE PHASE CONDUCTOR HAVING THE HIGHER PHASE TO GROUND VOLTAGE SHALL BE PERMANENTLY IDENTIFIED WITH AN OUTER FINISH THAT IS ORANGE IN COLOR; THIS IDENTIFICATION SHALL BE MADE AT EACH POINT WHERE A CONNECTION IS MADE. COLORS SHALL BE FACTORY APPLIED FOR CONDUCTORS #6 AWG AND SMALLER. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL BE GREEN IN COLOR AND MINIMUM #12 AWG. THE EC SHALL PROVIDE PLENUM RATED CABLE FOR ANY ELECTRICAL, TELEPHONE, COMMUNICATION, OR OTHER CABLE THAT ENTERS CEILING

G43. ABANDONED CONDUIT AND BOXES SHALL HAVE ALL ELECTRICAL WIRING REMOVED COMPLETELY AND NOT JUST "MADE SAFE." CONDUIT AND BOXES SHALL BE REMOVED WHERE PRACTICAL WITHOUT CREATING ADDITIONAL DEMOLITION/RESTITUTION WORK FOR OTHER TRADES.

G44. WHERE CONDUCTORS ARE RUN IN PARALLEL, THE EC SHALL COMPLY WITH NEC 310.4.

G45. ALL 15 AND 20 AMPERE, 125 AND 250 VOLT NONLOCKING-TYPE RECEPTACLES IN THE AREAS SPECIFIED IN NEC 406.12(1) THROUGH (8) SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES.

EL	ECTRICAL SYMBOL LEGEND
	DUPLEX RECEPTACLE, 20A, 120 VOLT, +18" A.F.F. (U.N.O.)
\Rightarrow	"GFCI" INDICATES GROUND FAULT PROTECTION
	"WP" INDICATES WEATHERPROOF
	DEDICATED DUPLEX RECEPTACLE, 20A, 120 VOLT, +18" A.F.F. (U.N.O.)
-	QUADPLEX RECEPTACLE, 20A, 120 VOLT, +18" A.F.F. (U.N.O.)
- -	SIMPLEX RECEPTACLE, 20A, 120 VOLT, +18" A.F.F. (U.N.O.)
=	208/230 VOLT 1Ø RECEPTACLE
-0	208/230 VOLT 3Ø RECEPTACLE
0	DUPLEX RECEPTACLE RECESSED IN FLOOR WITH BRASS COVER
\bigcirc	QUADPLEX RECEPTACLE RECESSED IN FLOOR WITH BRASS COVER
\square	DUPLEX RECEPTACLE MOUNTED IN CEILING
Ð	QUADPLEX RECEPTACLE MOUNTED IN CEILING
Ū	JUNCTION BOX
L000	DISCONNECT SWITCH, FUSED, HEAVY DUTY. NEMA 1 FOR INTERIOR, NEMA 3R FOR EXTERIOR. FUSE ACCORDING TO NAMEPLATE DATA
	NON-FUSED PULL DISCONNECT SWITCH. NEMA 1 FOR INTERIOR, NEMA 3R FOR EXTERIOR.
	TELEPHONE/DATA JACK (JUNCTION BOX WITH 1" CONDUIT STUBBED TO ABOVE CEILING) CONDUCTORS AND TERMINATIONS PROVIDED AND INSTALLED BY COMMUNICATIONS CONTRACTOR.
\$	SINGLE POLE SWITCH
\$3	3 WAY SWITCH
\$ _{ws}	WALL MOUNT INFRARED OCCUPANCY SENSOR WITH UP TO 30 MINUTE TIME-ON SETTING AND MANUAL OVERRIDE, MIN. COVERAGE 500+ SQFT. WATTSTOPPER MODEL WS-250 OR EQUAL, 120.277V RATED
\$ _м	MOTOR RATED SWITCH RATED AT 20 AMPS, VOLTAGE TO MATCH EQUIPMENT
\$ _{WP}	20 AMP SWITCH IN WEATHERPROOF BOX WITH WEATHERPROOF COVER
	ELECTRICAL PANEL
PC	DUSK/DAWN PHOTOCELL
GC	GENERAL CONTRACTOR
EC	ELECTRICAL CONTRACTOR
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
RECEPT	RECEPTACLE
LTS	LIGHTS
IG	ISOLATED GROUND
WP	WEATHER PROOF (DEVICE TO HAVE WEATHERPROOF IN-USE COVER)
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
AFCI	ARC FAULT CIRCUIT INTERRUPTER
L	

ELECTRICAL SYSTEM AND EQUIPMENT
Method of Compliance: Energy Code - Prescriptive
Lighting schedule:
lamp type required in fixture

ELECTRICAL SYSTEM AND EQUIPMENT METHOD OF COMPLIANCE SUMMARY

number of lamps in fixture

- ballast type used in the fixture <u>See Light Fixture Schedule on sheet</u> number of ballasts in fixture
- total wattage per fixture total interior wattage specified vs. allowed: 25 Watts Specified vs. 676 Watts Allowed total exterior wattage specified vs. allowed: N/A

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

DESIGNER STATEMENT:

To the best of my knowledge and belief, the design of this building/space complies with the electrical system and equipment requirements of the 2018 North Carolina Energy Conservation Code.

LIGHTING	FIXTURE SCHEDULE							
MARK	DESCRIPTION	MANUFACTURER	MODEL	CCT	MOUNTING	MAX WATTS	BALLAST/DRIVER	REMARKS
А	CAN LIGHT	LITHONIA	WF6-LED-30K40K50K-90CRI-MW	VARIES	RECESSED	14	LED	2
В	LED WALLPACK	LITHONIA	ARC1LED-P1-30K-MVOLT-E4WH-PE-DDBXD	3000K	SURFACE	11	LED	1,3
ø	EXIT UNIT COMBO LIGHT	EXITRONIX	VLED-1-WH-EL90-R	-	VARIES	2	LED	1
	EMERGENCY WALL LIGHT	EXITRONIX	LED-90-G2	-	VARIES	2	LED	1
٩	REMOTE LED LAMP HEAD / WP	EXITRONIX	2CLED-WP		SURFACE	2	LED	1

PROVIDE WITH 90 MINUTE BATTERY BACKUP ILLUMINATION.

FIXTURE EQUIPPED WITH SELECTABLE COLOR TEMPERATURE. FIXTURE EQUIPPED WITH PHOTOCELL FOR DUSK TO DAWN OPERATION.

GENERAL NOTES:

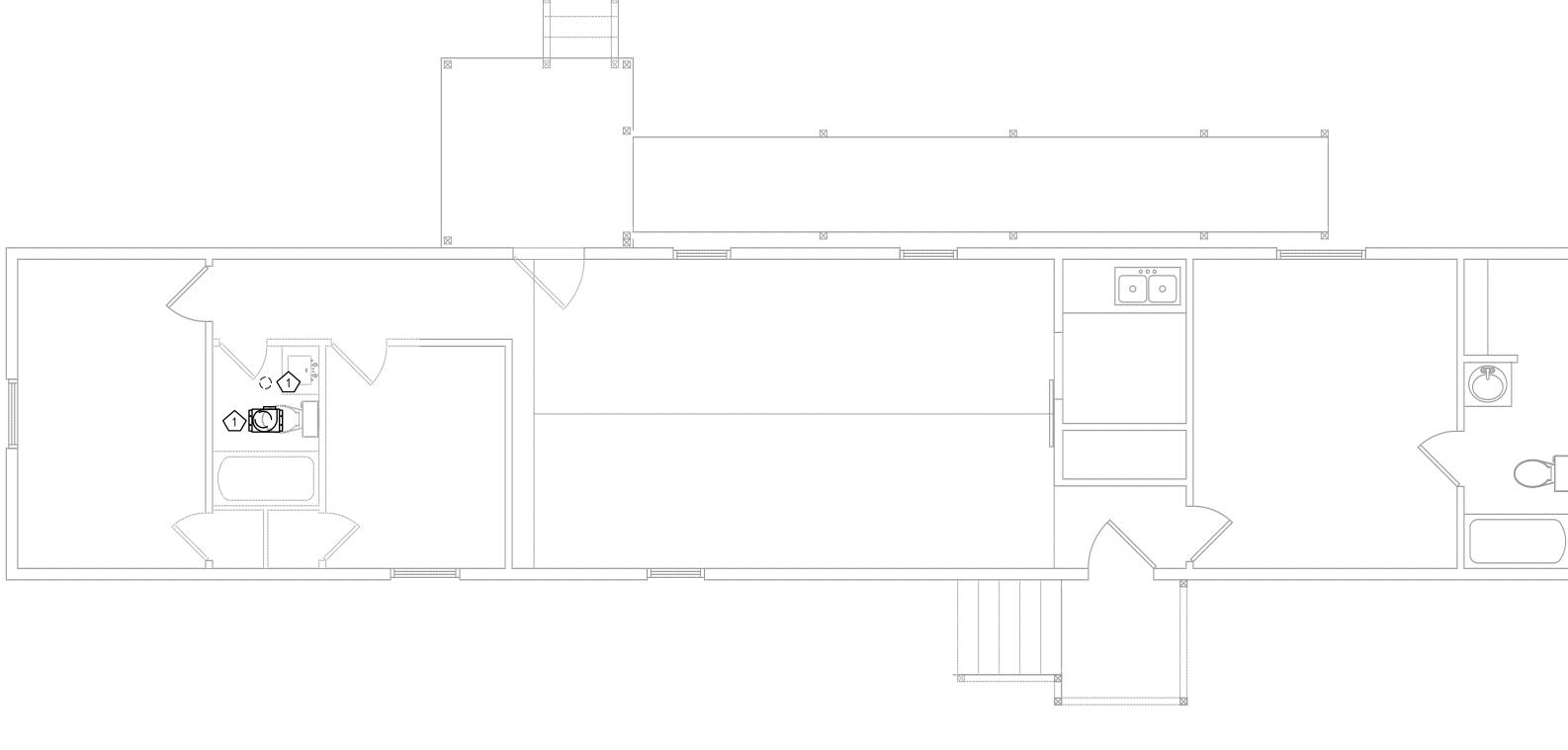
- THE CONTRACTOR SHALL VERIFY THE LEAD TIME OF ALL PRODUCTS SPECIFIED IN THIS SCHEDULE AT THE TIME OF PACKAGE QUOTE. DURING THE BID PROCESS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DELIVERY/SCHEDULING ISSUES.
- NO SUBSTITUTIONS WILL BE ALLOWED DUE TO THE LACK OF COORDINATION OF DELIVERY DATES AND CONSTRUCTION SCHEDULE AFTER
- ALL EXPEDITED EXPENSES SHALL BE THE RESPONSIBILITY OF THE CONTRACTORS. FIXTURES TO BE INSTALLED IN CEILINGS, INDICATE ON THE ARCHITECTURAL PLANS AS HAVING INSULATION IN CONTACT WITH THE CEILING SURFACE, SHALL BE IC RATED BY MANUFACTURER.
- LIGHTING FIXTURES SHALL MEET THE AESTHETICS, DESCRIPTION AND SPECIFICATIONS, SUBSTITUTIONS SHALL INCLUDE PT. BY PT. CALCULATIONS. LIGHTING FIXTURES, AS SPECIFIED, HAVE BEEN SO SELECTED TO ACHIEVE REQUIRED/DESIRED FOOTCANDLE LEVELS IN THEIR RESPECTIVE
- AREA. HENCE SPECIFIC FIXTURE CHARACTERISTICS WHICH MAY CREATE PARTICULAR ILLUMINATION RESULTS ARE ESSENTIAL. ANY DEVIATIONS FROM SPECIFIED FIXTURES SHALL DEEM THE SUBMITTING AGENT AND CONTRACTORS RESPONSIBLE IN PROVIDINGSUCH DEVIATION FOR THE ARCHITECT/ENGINEER AND OWNER TO MAKE AN INFORMED DECISION.
- SUBSTITUTIONS APPROVED BY THE ENGINEER PREVIOUS TO BID ARE ACCEPTABLE AS LONG AS THEY ARE EQUAL TO THE FIXTURE SPECIFIED, UNLESS OTHERWISE NOTED. THIS INCLUDES LENS, COLORS, REFLECTORS, PHOTOMETRICS, HOUSING MATERIAL, FINISHES, ETC. ALL SUBSTITUTIONS SHALL BE SUBMITTED TO THE ENGINEER WITH CUT SHEETS FOR APPROVAL. SUBSTITUTE FIXTURES SHALL BE PRICED WITH THE SPECIFIED FIXTURE AND LISTED SEPARATELY SO THE ARCHITECT, ENGINEER AND OWNER CAN MAKE AN INFORMED DECISION.
- ANY FIXTURE WITH THE TEXT "NL" ADJACENT TO IT SHALL INDICATE THAT THAT FIXTURE IS A NIGHT LIGHT (24HR LIGHT). THE FIXTURE SHALL BE CONNECTED TO THE UNSWITCHED HOT LEG OF THE INDICATED CIRCUIT.
- ACRYLIC PRISMATIC LENSES SHALL BE 0.156" NOMINAL MINIMUM THICKNESS. ALL EXIT AND EMERGENCY FIXTURES SHALL COMPLY WITH NCSBC STANDARDS AND HAVE AUTOMATIC TESTING DEVICES. LED EMERGENCY BATTERY SHALL PROVIDE 1400 MINIMUM LUMENS OUTPUT FROM 1 LAMP FOR 90 MINUTES MINIMUM.
- ELECTRICAL CONTRACTOR SHALL CONNECT ALL LED EMERGENCY FIXTURES TO CLOSEST AVAILABLE LIGHTING CIRCUIT UNLESS NOTED OTHERWISE
- LED MODULES SHALL BE REPLACEABLE. Ο.

ELECTRICAL CONTRACTOR SHALL RECEIVE APPROVAL FOR ALL LIGHTING FIXTURES FROM ARCHITECT/OWNER PRIOR TO PURCHASE AND ROUGH-IN. THE ABOVE FIXTURE TYPES ARE LISTED AS THE DESIGN BASIS.

NOTE: CONTRACTOR TO VERIFY ALL FIXTURE SELECTIONS AND FINISHES WITH OWNER PRIOR TO PURCHASE

ELECTRICAL DRAWING INDEX ELECTRICAL LEGENDS AND NOTES F0.1 E0.2 ELECTRICAL DEMO PLAN F1.1 ELECTRICAL PLANS E2.1 PANEL SCHEDULE AND ONE-LINE DIAGRAM E3.1 ELECTRICAL DETAILS

P.O. Box G Wilsons Mills, NC 27593 NC License # P-2821
DISCLAIMER THESE DRAWINGS, THE PROJECT SPECIFICATIONS MANUAL, AND THE DESIGN ARE INSTRUMENTS OF SERVICE ONLY AND REMAIN THE PROPERTY OF SHARPE ENGINEERING & CONSULTING, PLLC. THE REPRODUCTION AND/OR UNAUTHORIZED USE OF THESE DOCUMENTS WITHOUT THE EXPRESS WRITTEN PERMISSION OF SHARPE ENGINEERING & CONSULTING, PLLC IS PROHIBITED.
SEAL 056419 SEAL 056419 05-2-24
DESIGN FOR: MANUFACTURED HOME OFFICE CONVERSION 371 ARCHIE STREET SPRING LAKE, NC
REV. NO. DATE DESCRIPTION 1
3 4 5 6 7
ISS. DATE DESCRIPTION 1 10-2-24 FOR PERMITTING 2
PROJECT NO.: DRAWN BY:

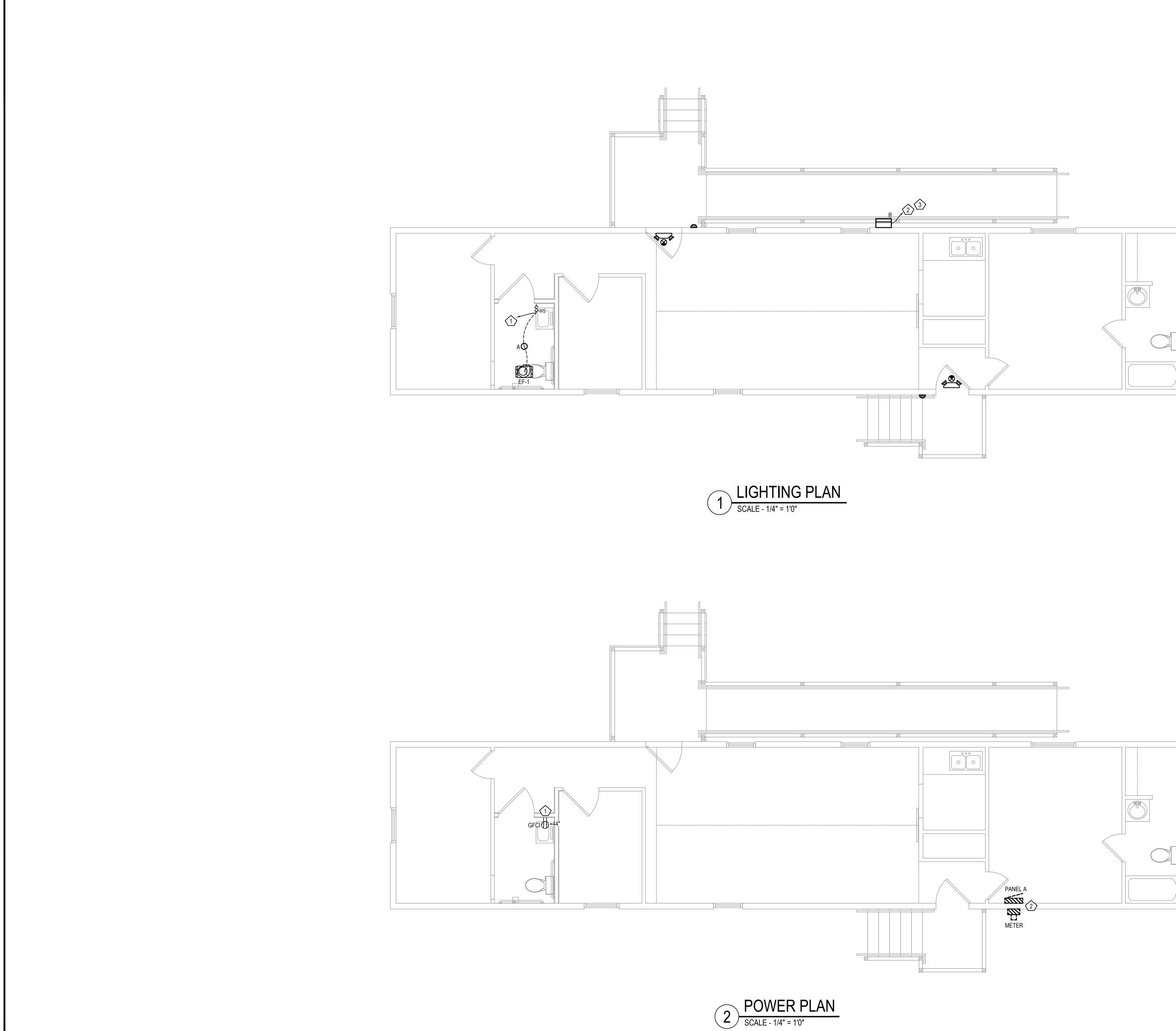


1 ELECTRICAL DEMO PLAN SCALE - 1/4" = 1'0"

\Diamond	DEMO KEYNOTE LEGEND
KEY VALUE	KEYNOTE TEXT
1	DEMO EXISTING LIGHT AND EXHAUST FAN. MAINTAIN EXISTING CIRCUIT.



ERING & CONSULTING, PLC	P: 919.526.0989 sharpeengineers.com
ENGINE	P.O. Box G Wilsons Mills, NC 27593 NC License # P-2821
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SEAL 056419	
DESIGN FOR: MANUFACTURED HOME OFFICE CONVERSION	371 ARCHIE STREET SPRING LAKE, NC
REV. NO. DATE DESC 1	CRIPTION
NU.	CRIPTION ERMITTING
	RAWN BY: DBAS HECKED BY: DBAS



KEY VALUE	KEYNOTE TEXT					
1	CONNECT TO EXISTING LIGHTING CIRCUIT FROM EXISTING BATHROOM.					
2	CIRCUIT NEW WALLPACK LIGHT TO CLOSEST AVAILABLE EXISTING LIGHTING CIRCUIT.					
3	FIXTURE EQUIPPED WITH INTEGRAL BUTTON TYPE PHOTOCEL FOR DUSK TO DAWN OPERATION.					

NOTE:

SCOPE OF WORK IS LIMITED TO RE-WORKING EXISTING BATHROOM EXHAUST FAN, LIGHTING, AND PROVIDING EGRESS LIGHTING. ALL OTHER POWER DISTRIBUTION AND LIGHTING SYSTEMS, ETC. ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.

OWER KEYNOTE LEGEND					
KEY VALUE	KEYNOTE TEXT				
1	CONNECT TO EXISTING RECEPTACLE CIRCUIT FROM EXISTING BATHROOM.				
2	PANEL AND METER ARE EXISTING TO REMAIN. SHOWN FOR REFERENCE ONLY.				

NOTE:

SCOPE OF WORK IS LIMITED TO RE-WORKING EXISTING BATHROOM EXHAUST FAN, LIGHTING, AND PROVIDING EGRESS LIGHTING. ALL OTHER POWER DISTRIBUTION AND LIGHTING SYSTEMS, ETC. ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.

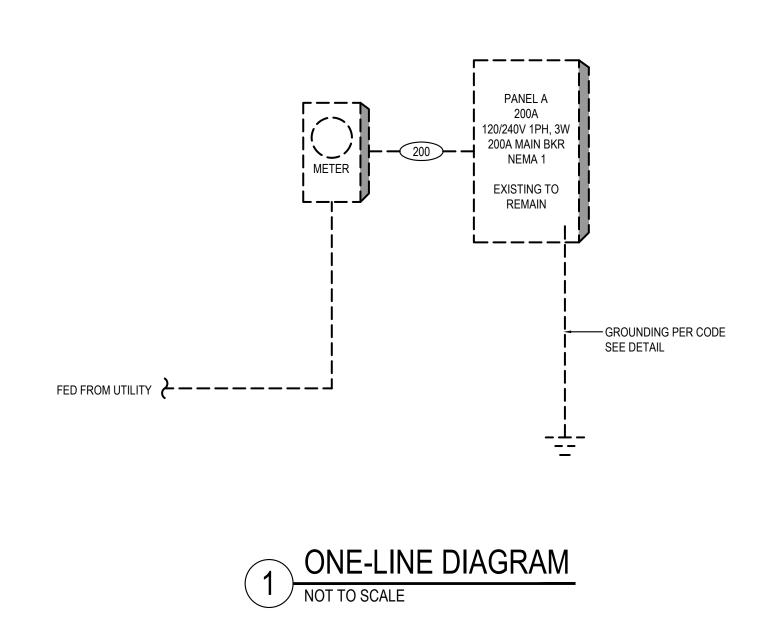


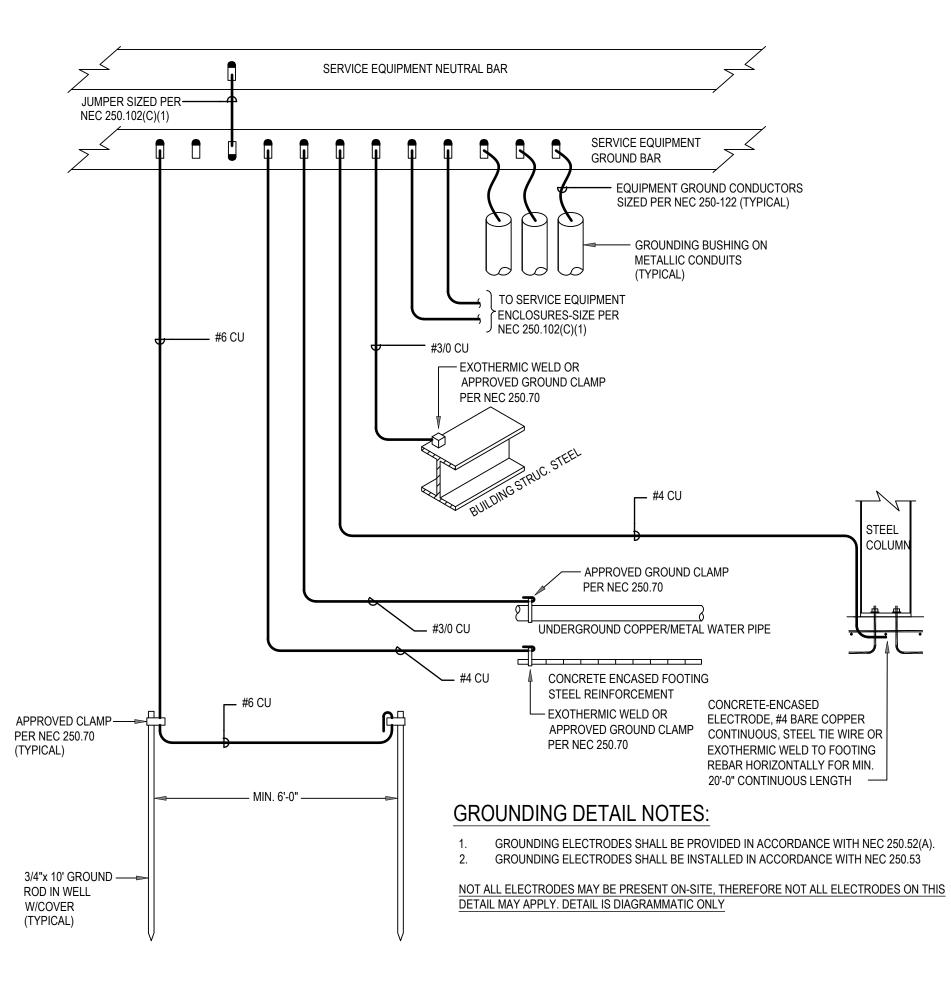
THESE DRAWI SPECIFICATION DESIGN ARE SERVICE ONL' PROPERTY OF S & CONSUL REPRODU UNAUTHORIZ DOCUMENTS WI WRITTEN PERI ENGINEERING 8	ENGINEERING & CONSULTING, PLIC. THE SHALDEERING WILSON & MILSON &
	CAROLINI SEAL 56419 GINEER RRY 3.A. SHARMINI 0-2-24
DESIGN FOR:	MANUFACTURED HOME OFFICE CONVERSION 371 ARCHIE STREET SPRING LAKE, NC
REV. DATE	DESCRIPTION
2 3 4 5 6 7	
ISS. DATE 1 10-2-24 2 3 3 4 5 6 7 7	DESCRIPTION FOR PERMITTING
PROJECT NO. 24-110 ELECTRIC/	DBAS CHECKED BY: DBAS
E1	.1

200	AMP MAIN BREAKER				EXISTING P	ANELBOARD A	4	LOCATION: OFFICE	
200	AMP BUS RATING		16	POLES		10 KA SHO	ORT CIRCUIT RA	TING ENCLOSURE RATING: NEMA 1	
120/240	VOLTS	1 PHASE	3 WIRE	60 HZ.				MOUNTING: RECESSE	D
CIRCUIT NO.	DESCF	RIPTION		BREAKER AMPS/POLES	LO PHASE A	AD KVA PHASE B	BREAKER AMPS/POLES	DESCRIPTION	CIRCUIT NO.
1					1				2
3									4
5									6
7									8
9									10
11									12
13	SPACE							SPACE	14
15	SPACE							SPACE	16
		TOTAL PHA			0	0		DEMAND KVA: 19.65 DEMAND AMPS: 82	
		AMPS PER	PHASE		0	0			
NOTES:	PANEL IS EXISTING								
2									
3 4									

SUMMARY OF LOADS						
CONNECTED (kVA)	DEMAND FACTOR	DEMAND (kVA)				
19.65	1.00	19.65				
-	-					
19.7		19.7				
82		82				
	CONNECTED (kVA) 19.65 19.7	CONNECTED (kVA) DEMAND FACTOR 19.65 1.00 19.7				

ALL CONDUCTORS AND EQUIPMENT ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE. SHOWN FOR REFERENCE ONLY.





10G, 3/4"C] 0G, 3/4"C] 0G, 3/4"C] 10G, 1"C] 10G, 1"C] 10G, 1"C] G, 1-1/4"C] G, 1-1/4"C] G, 1-1/4"C] G, 1-1/4"C] G, 1-1/4"C] G, 1-1/2"C] G, 1-1/2"C] G, 1-1/2"C] H6G, 2"C] #6G, 2"C]	#8 #8 #8 #8 #8 #8 #8 #8 #8 #8 #6 #6 #4	1 [3 #8, #8G, 3/4"C] 1 [3 #6, #8G, 1"C] 1 [3 #6, #8G, 1"C] 1 [3 #4, #8G, 1-1/4"C] 1 [3 #4, #8G, 1-1/4"C] 1 [3 #4, #8G, 1-1/4"C] 1 [3 #3, #8G, 1-1/4"C] 1 [3 #2, #6G, 1-1/4"C] 1 [3 #1, #6G, 1-1/2"C] 1 [3 #1/0, #6G, 2"C] 1 [3 #1/0, #4G, 2"C] 1 [3 #2/0, #4G, 2"C] 1 [3 #3/0, #4G, 2"C]	#6 #6 #6 #6 #6 #6 #4 #4
0G, 3/4"C] 10G, 1"C] 10G, 1"C] G, 1-1/4"C] G, 1-1/4"C] G, 1-1/4"C] G, 1-1/4"C] G, 1-1/2"C] G, 1-1/2"C] #6G, 2"C] #6G, 2"C]	#8 #8 #8 #8 #8 #8 #6 #6	1 [3 #6, #8G, 1"C] 1 [3 #4, #8G, 1-1/4"C] 1 [3 #4, #8G, 1-1/4"C] 1 [3 #3, #8G, 1-1/4"C] 1 [3 #2, #6G, 1-1/4"C] 1 [3 #1, #6G, 1-1/2"C] 1 [3 #1/0, #6G, 2"C] 1 [3 #1/0, #4G, 2"C] 1 [3 #2/0, #4G, 2"C] 1 [3 #3/0, #4G, 2"C]	#6 #6 #6 #6 #4
10G, 1"C] 10G, 1"C] G, 1-1/4"C] G, 1-1/4"C] G, 1-1/4"C] G, 1-1/4"C] G, 1-1/2"C] G, 1-1/2"C] G, 1-1/2"C] #6G, 2"C] #6G, 2"C]	#8 #8 #8 #8 #8 #8 #6 #6	1 [3 #4, #8G, 1-1/4"C] 1 [3 #4, #8G, 1-1/4"C] 1 [3 #3, #8G, 1-1/4"C] 1 [3 #2, #6G, 1-1/4"C] 1 [3 #1, #6G, 1-1/2"C] 1 [3 #1/0, #6G, 2"C] 1 [3 #1/0, #6G, 2"C] 1 [3 #2/0, #4G, 2"C] 1 [3 #3/0, #4G, 2"C]	#6 #6 #6 #6 #4
10G, 1"C] 10G, 1-1/4"C] G, 1-1/4"C] G, 1-1/4"C] G, 1-1/4"C] G, 1-1/2"C] G, 1-1/2"C] G, 1-1/2"C] G, 1-1/2"C] Hold, 1-1/2"C] G, 1-1/2"C] G, 1-1/2"C] G, 1-1/2"C] G, 1-1/2"C] G, 1-1/2"C] Hold, 2"C]	#8 #8 #8 #8 #8 #8 #6 #6	1 [3 #4, #8G, 1-1/4"C] 1 [3 #3, #8G, 1-1/4"C] 1 [3 #2, #6G, 1-1/4"C] 1 [3 #1, #6G, 1-1/2"C] 1 [3 #1/0, #6G, 2"C] 1 [3 #1/0, #6G, 2"C] 1 [3 #1/0, #4G, 2"C] 1 [3 #2/0, #4G, 2"C] 1 [3 #3/0, #4G, 2"C]	#6 #6 #6 #6 #4
G, 1-1/4"C] G, 1-1/4"C] G, 1-1/4"C] G, 1-1/4"C] G, 1-1/2"C] G, 1-1/2"C] G, 1-1/2"C] #6G, 2"C] #6G, 2"C]	#8 #8 #8 #8 #8 #8 #6 #6	1 [3 #3, #8G, 1-1/4"C] 1 [3 #2, #6G, 1-1/4"C] 1 [3 #1, #6G, 1-1/2"C] 1 [3 #1/0, #6G, 2"C] 1 [3 #1/0, #4G, 2"C] 1 [3 #2/0, #4G, 2"C] 1 [3 #3/0, #4G, 2"C]	#6 #6 #6 #6 #4
G, 1-1/4"C] G, 1-1/4"C] G, 1-1/4"C] G, 1-1/2"C] G, 1-1/2"C] G, 1-1/2"C] #6G, 2"C] #6G, 2"C]	#8 #8 #8 #8 #8 #8 #6 #6	1 [3 #2, #6G, 1-1/4"C] 1 [3 #1, #6G, 1-1/2"C] 1 [3 #1/0, #6G, 2"C] 1 [3 #1/0, #6G, 2"C] 1 [3 #1/0, #4G, 2"C] 1 [3 #2/0, #4G, 2"C] 1 [3 #3/0, #4G, 2"C]	#6 #6 #6 #6 #4
G, 1-1/4"C] G, 1-1/4"C] G, 1-1/2"C] G, 1-1/2"C] G, 1-1/2"C] #6G, 2"C] #6G, 2"C]	#8 #8 #8 #8 #6 #6	1 [3 #1, #6G, 1-1/2"C] 1 [3 #1/0, #6G, 2"C] 1 [3 #1/0, #6G, 2"C] 1 [3 #1/0, #4G, 2"C] 1 [3 #2/0, #4G, 2"C] 1 [3 #3/0, #4G, 2"C]	#6 #6 #6 #6 #4
G, 1-1/4"C] G, 1-1/2"C] G, 1-1/2"C] G, 1-1/2"C] #6G, 2"C] #6G, 2"C]	#8 #8 #8 #6 #6	1 [3 #1/0, #6G, 2"C] 1 [3 #1/0, #6G, 2"C] 1 [3 #1/0, #4G, 2"C] 1 [3 #2/0, #4G, 2"C] 1 [3 #3/0, #4G, 2"C]	#6 #6 #6 #4
G, 1-1/2"C] G, 1-1/2"C] G, 1-1/2"C] #6G, 2"C] #6G, 2"C]	#8 #8 #6 #6	1 [3 #1/0, #6G, 2"C] 1 [3 #1/0, #4G, 2"C] 1 [3 #2/0, #4G, 2"C] 1 [3 #3/0, #4G, 2"C]	#6 #6 #4
G, 1-1/2"C] G, 1-1/2"C] #6G, 2"C] #6G, 2"C]	#8 #6 #6	1 [3 #1/0, #4G, 2"C] 1 [3 #2/0, #4G, 2"C] 1 [3 #3/0, #4G, 2"C]	#6 #4
G, 1-1/2"C] #6G, 2"C] #6G, 2"C]	#6 #6	1 [3 #2/0, #4G, 2"C] 1 [3 #3/0, #4G, 2"C]	#4
#6G, 2"C] #6G, 2"C]	#6	1 [3 #3/0, #4G, 2"C]	
#6G, 2"C]		- · · · ·	#4
· •	#4		
#6G_2"C1		1 [3 #4/0, #4G, 2-1/2"C]	#2
#00, 2 0j	#4	1 [3 #250KCMIL, #4G, 2-1/2"C]	#2
IG, 2-1/2"C]	#2	1 [3 #300KCMIL, #2G, 3"C]	#1/0
., #4G, 2-1/2"C]	#2	1 [3 #350KCMIL, #2G, 3"C]	#1/0
1IL, #4G, 3"C]	#2	1 [3 #500KCMIL, #2G, 3"C]	#1/0
#3G, 2"C]	#2	2 [3 #4/0, #1G, 2-1/2"C]	#1/0
#3G, 2"C]	#2	2 [3 #250KCMIL, #1G, 2-1/2"C]	#1/0
2G, 2-1/2"C]	#1/0	2 [3 #300KCMIL, #1/0G, 3"C]	#3/0
_, #2G, 2-1/2"C]	#1/0	2 [3 #350KCMIL, #1/0G, 3"C]	#3/0
1IL, #1G, 3"C]	#2/0	2 [3 #500KCMIL, #2/0G, 3"C]	#4/0
IL, #1/0G, 3"C]	#2/0	3 [3 #350KCMIL, #3/0G, 3"C]	#4/0
IL, #1/0G, 3"C]	#3/0	3 [3 #400KCMIL, #3/0G, 3"C]	#4/0
IL, #2/0G, 3"C]	#3/0	4 [3 #350KCMIL, #4/0G, 3"C]	#4/0
	#3G, 2"C] #3G, 2"C] G, 2-1/2"C] , #2G, 2-1/2"C] IL, #1G, 3"C] L, #1/0G, 3"C] L, #1/0G, 3"C] L, #2/0G, 3"C]	#3G, 2"C] #2 #3G, 2"C] #2 G, 2-1/2"C] #1/0 , #2G, 2-1/2"C] #1/0 IL, #1G, 3"C] #2/0 L, #1/0G, 3"C] #2/0 L, #1/0G, 3"C] #3/0 L, #2/0G, 3"C] #3/0	#3G, 2"C] #2 2 [3 #4/0, #1G, 2-1/2"C] #3G, 2"C] #2 2 [3 #250KCMIL, #1G, 2-1/2"C] #3G, 2"C] #2 2 [3 #300KCMIL, #1G, 2-1/2"C] G, 2-1/2"C] #1/0 2 [3 #300KCMIL, #1/0G, 3"C] , #2G, 2-1/2"C] #1/0 2 [3 #350KCMIL, #1/0G, 3"C] , #1/0, 3"C] #2/0 2 [3 #500KCMIL, #2/0G, 3"C] L, #1/0G, 3"C] #2/0 3 [3 #350KCMIL, #3/0G, 3"C] L, #1/0G, 3"C] #3/0 3 [3 #400KCMIL, #3/0G, 3"C]

3.	IF CONDUIT OTHER THAN E
4.	'GEC' DENOTES GROUNDIN
5.	DO NOT PULL EQUIPMENT (

* EC SHALL VERIFY WITH AUTHORITY HAVING JURISDICTION AND UTILITY COMPANY THAT ALUMINUM CONDUCTORS ARE ACCEPTABLE FOR USE AS UTILITY TRANSFORMER SECONDARIES AND FEEDER CIRCUITS.

2 SERVICE GROUNDING DETAIL NOT TO SCALE

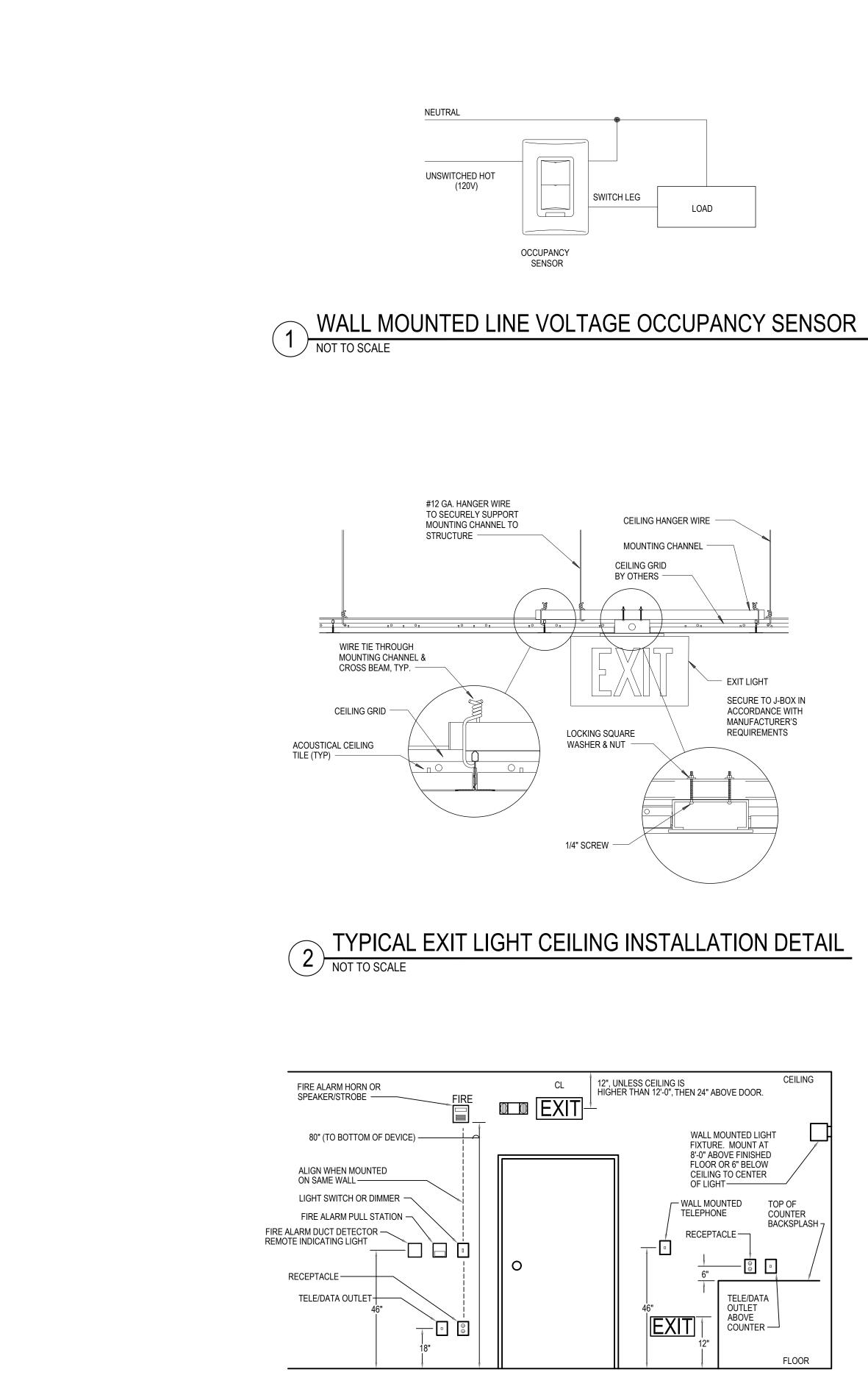
FEEDER SCHEDULE - 1 PHASE

ARE USED. REFER TO

EMT IS REQUIRED, BASE BID ON NEXT TRADE SIZE ABOVE THAT INDICATED. NG ELECTRODE CONDUCTOR PER NEC TABLE 250.66.

GROUNDING CONDUCTOR PRIOR TO FIRST MEANS OF DISCONNECT WHERE GROUNDING ELECTRODE CONDUCTOR IS PULLED.

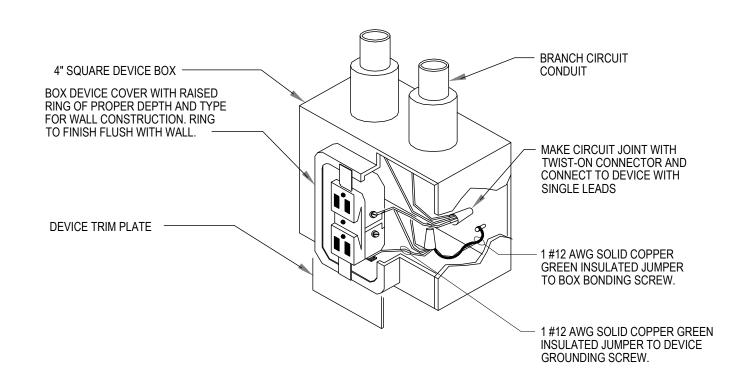
	C SHARPE	P.O. Box G Wilsons Mills, NC 27593 NC License # P-2821				
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		MANUFACTURED HOME OFFICE CONVERSION	371 ARCHIE STREET SPRING LAKE, NC			
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6 7 ISS. NO. 1 2 3 4 5 6 7	DATE 10-2-24		CRIPTION			
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TYPICAL DEVICE MOUNTING ELEVATION (3) NOT TO SCALE

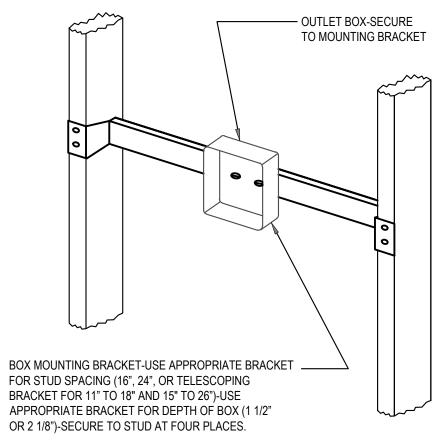
NOTES:

1. ALL DIMENSIONS ARE TO CENTER LINE OF DEVICE, UNLESS OTHERWISE NOTED.



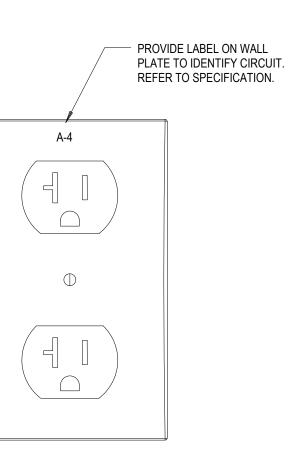


5 RECEPTACLE FACEPLATE LABEL DETAIL





RECEPTACLE GROUNDING DETAIL



OUTLET BOX MOUNTING DETAIL

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SEAL 056419 SEAL 056419			
DESIGN FOR	MANUFACTURED HOME OFFICE CONVERSION	371 ARCHIE STREET SPRING LAKE, NC	
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