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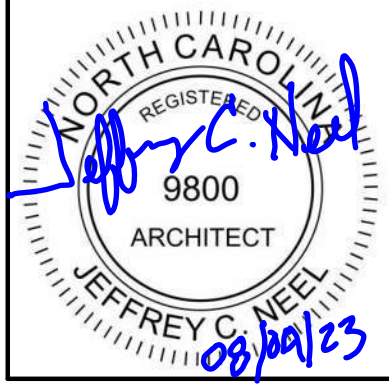
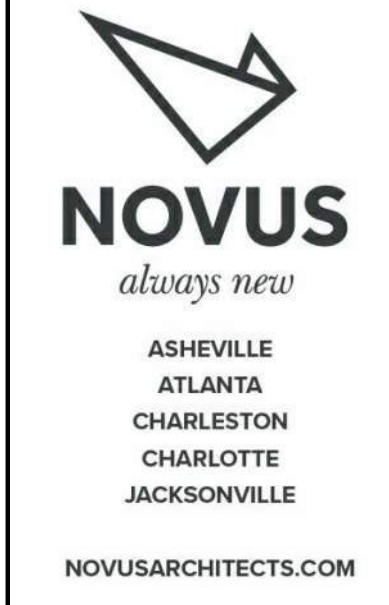
THE MELTING POT HOOD AND DUCT CHASE

74 PATTON AVENUE
ASHEVILLE, NORTH CAROLINA 28801

CONTRACT DOCUMENTS - AUGUST 03, 2023

INDEX OF DRAWINGS

G000	TITLE SHEET
G001	BUILDING CODE APPENDIX B
G002	BUILDING LIFE SAFETY PLANS
S1	GENERAL NOTED & TYPICAL DETAILS
S2	PARTIAL FLOOR FRAMING PLAN
S3	PARTIAL ROOF FRAMING PLAN
A101	ENLARGED PARTIAL FLOOR PLANS
A102	SECTIONS AND SECTION DETAILS
A103	UL LISTINGS
M101	ENLARGED PARTIAL FLOOR PLAN - HVAC
M201	MECHANICAL SCHEDULES & DETAILS
M301	MECHANICAL SPECIFICATIONS
E101	ENLARGED PARTIAL FLOOR PLAN - ELECTRICAL
E201	ELECTRICAL SCHEDULES & DETAILS
E301	ELECTRICAL SPECIFICATIONS



MELTING POT - HOOD AND DUCT CHASE

74 PATTON AVENUE
ASHEVILLE, NORTH CAROLINA 28801

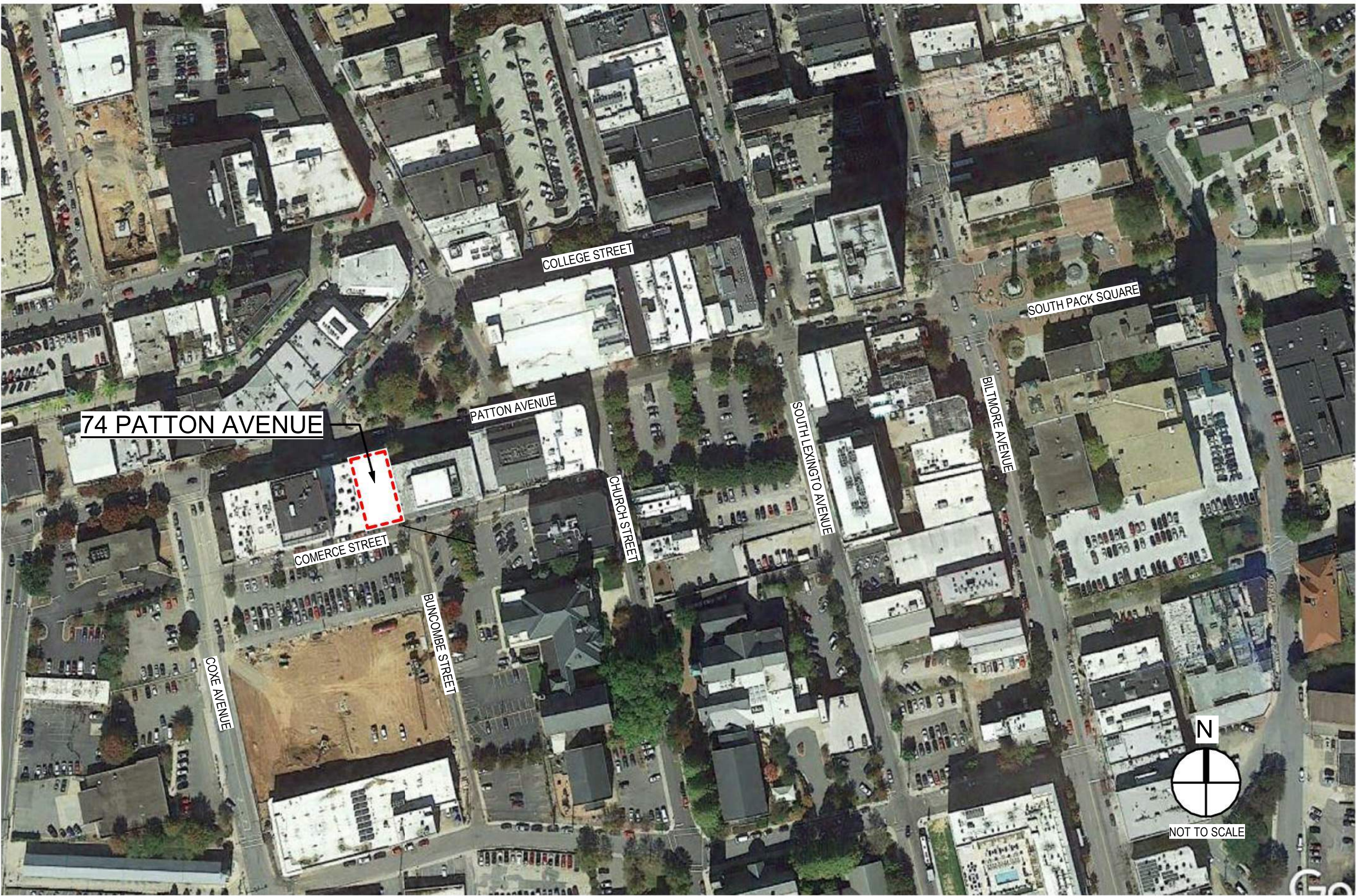
TITLE SHEET

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CHECKED BY:	JCN
DATE:	AUGUST 03, 2023
NOVUS JOB NUMBER 2020-3104.00	

SHEET NUMBER
G000

LOCATION MAP



PROJECT TEAM

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TAMPA, FL 33614
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PME ENGINEER

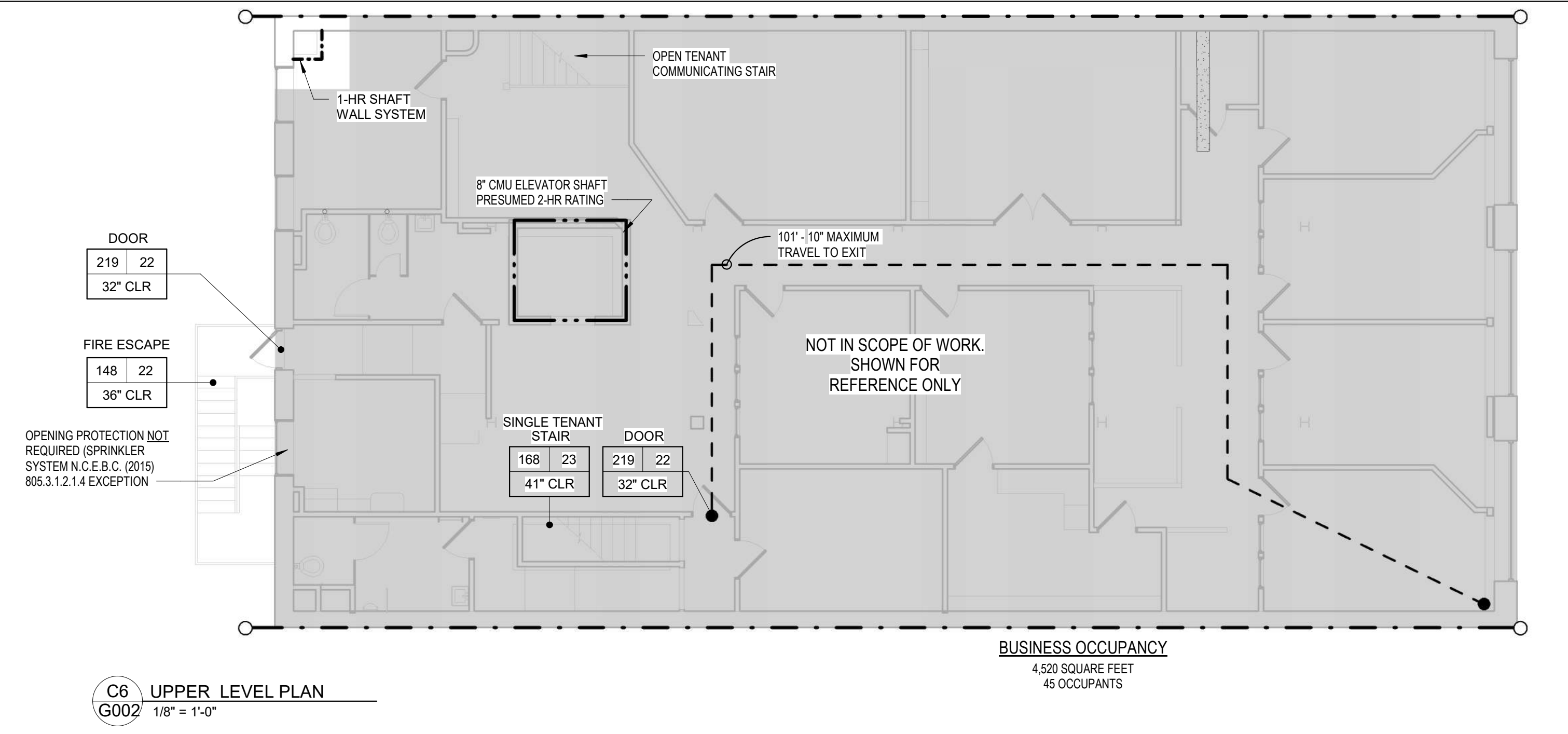
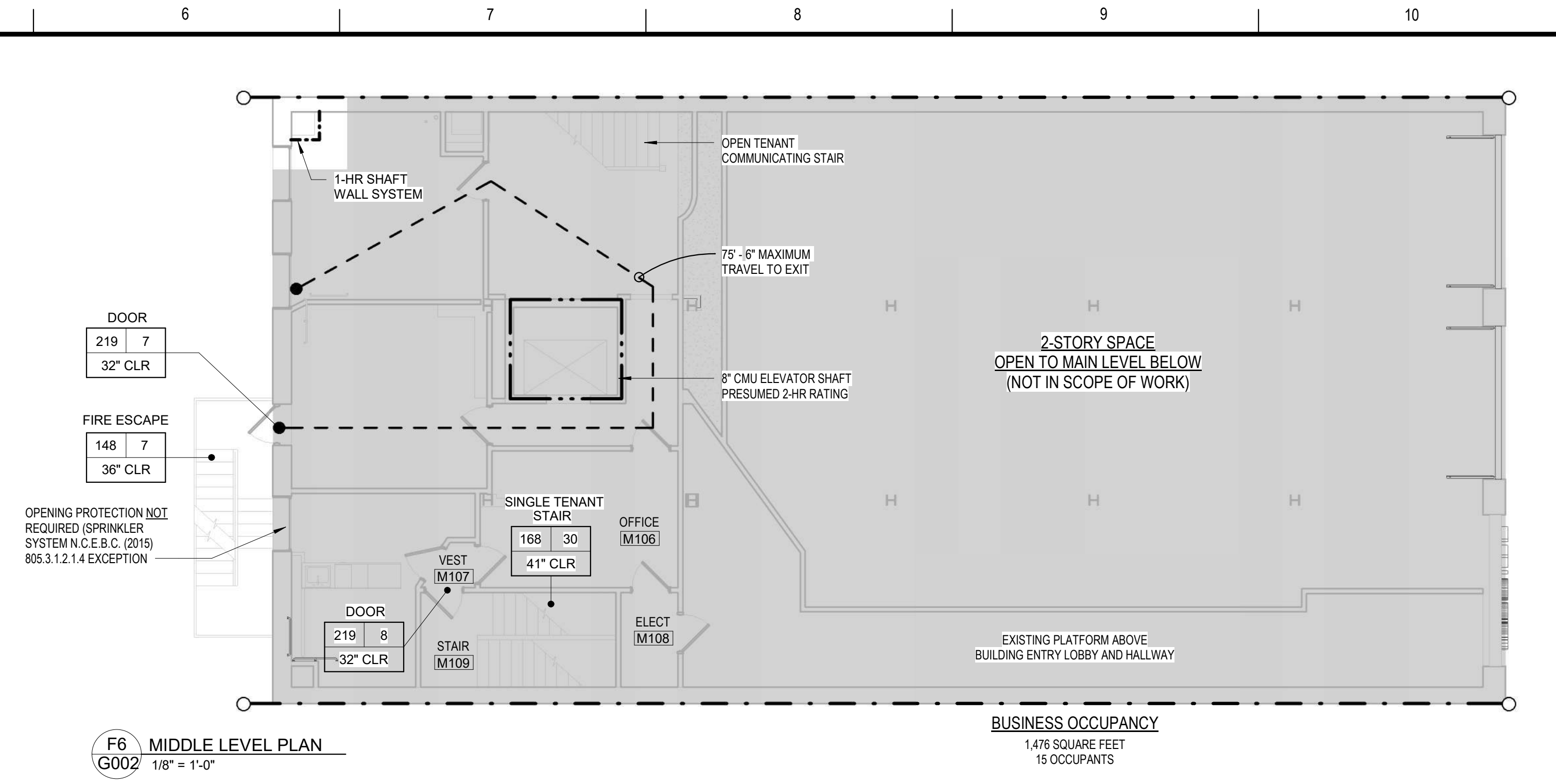
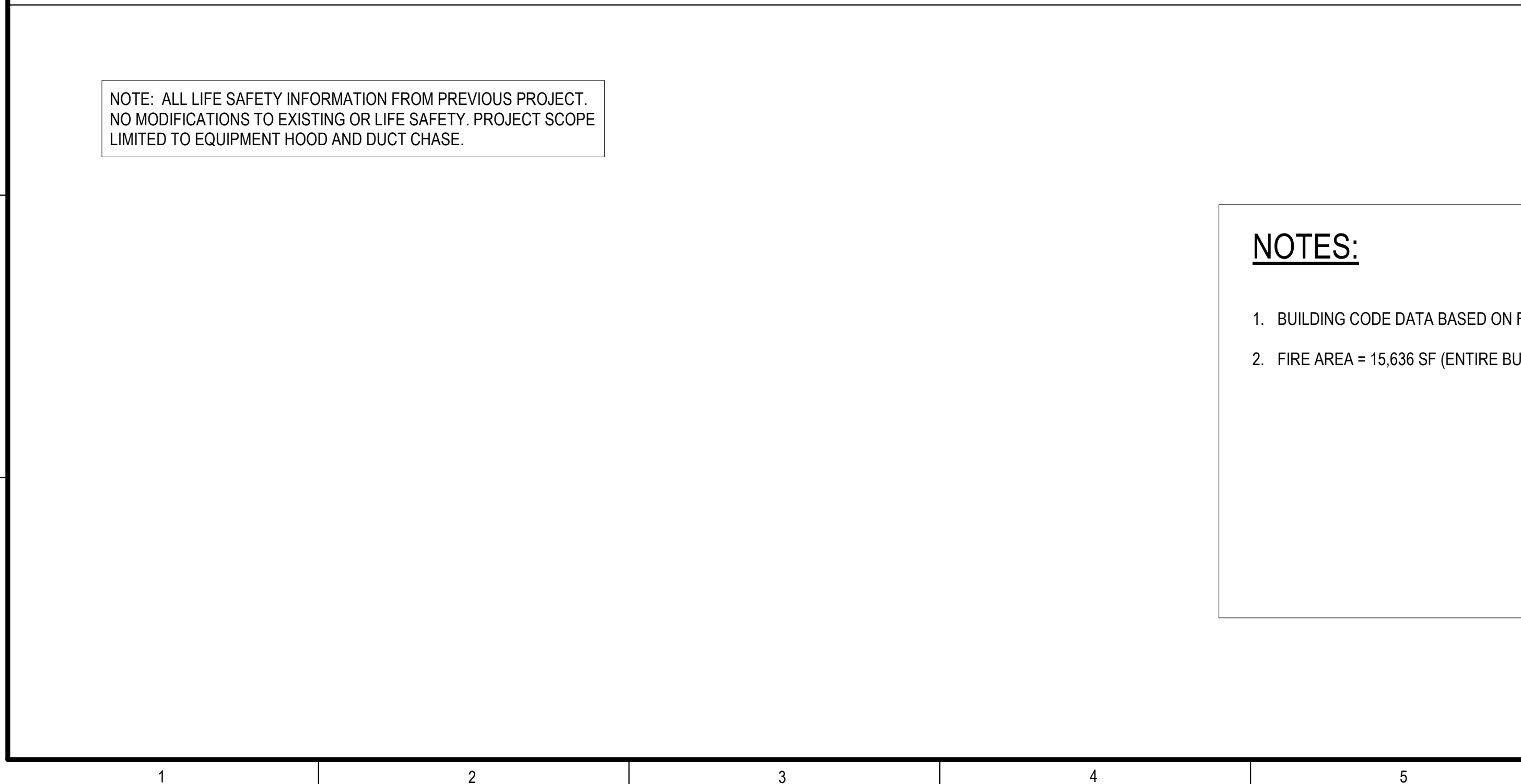
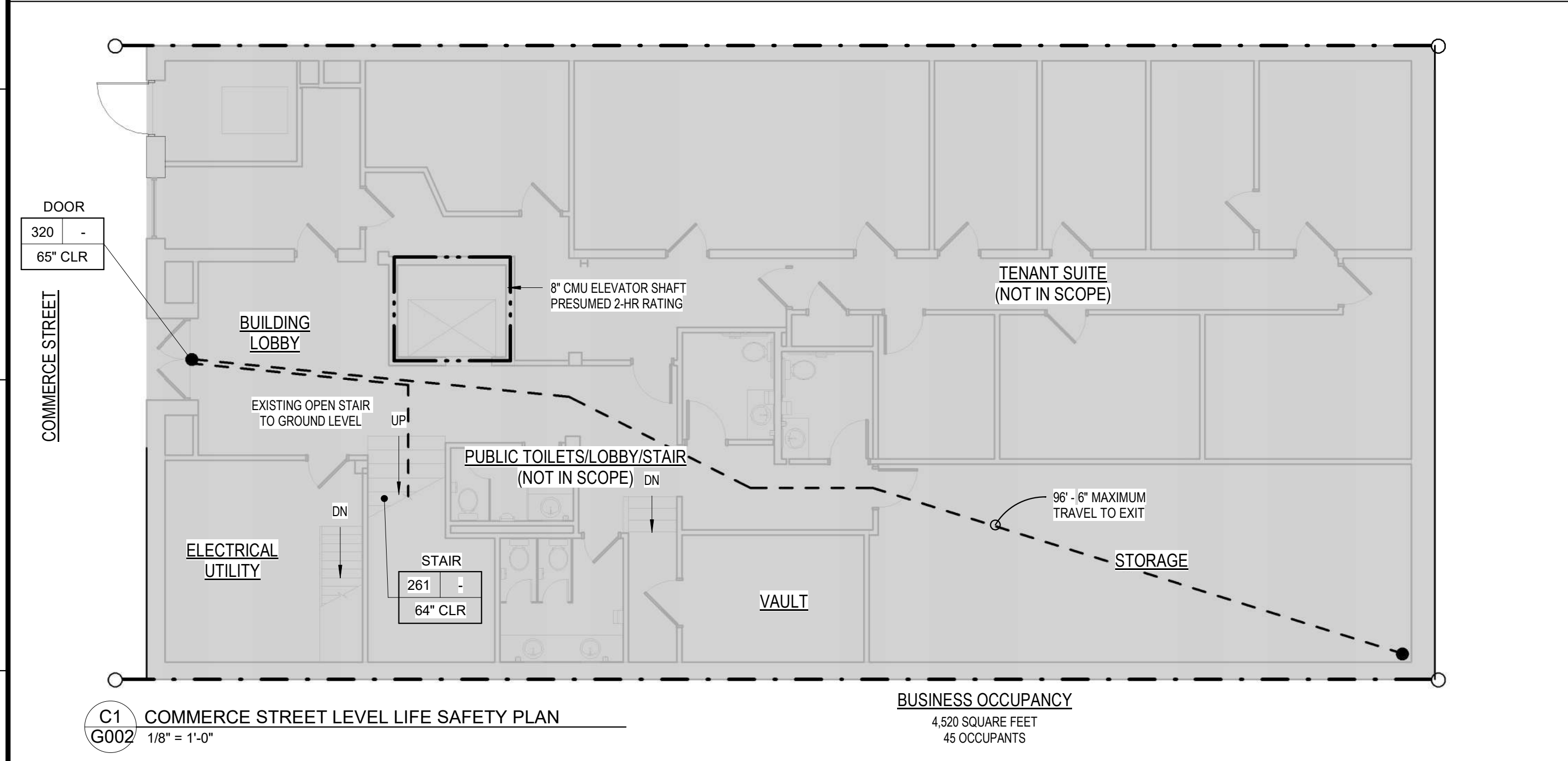
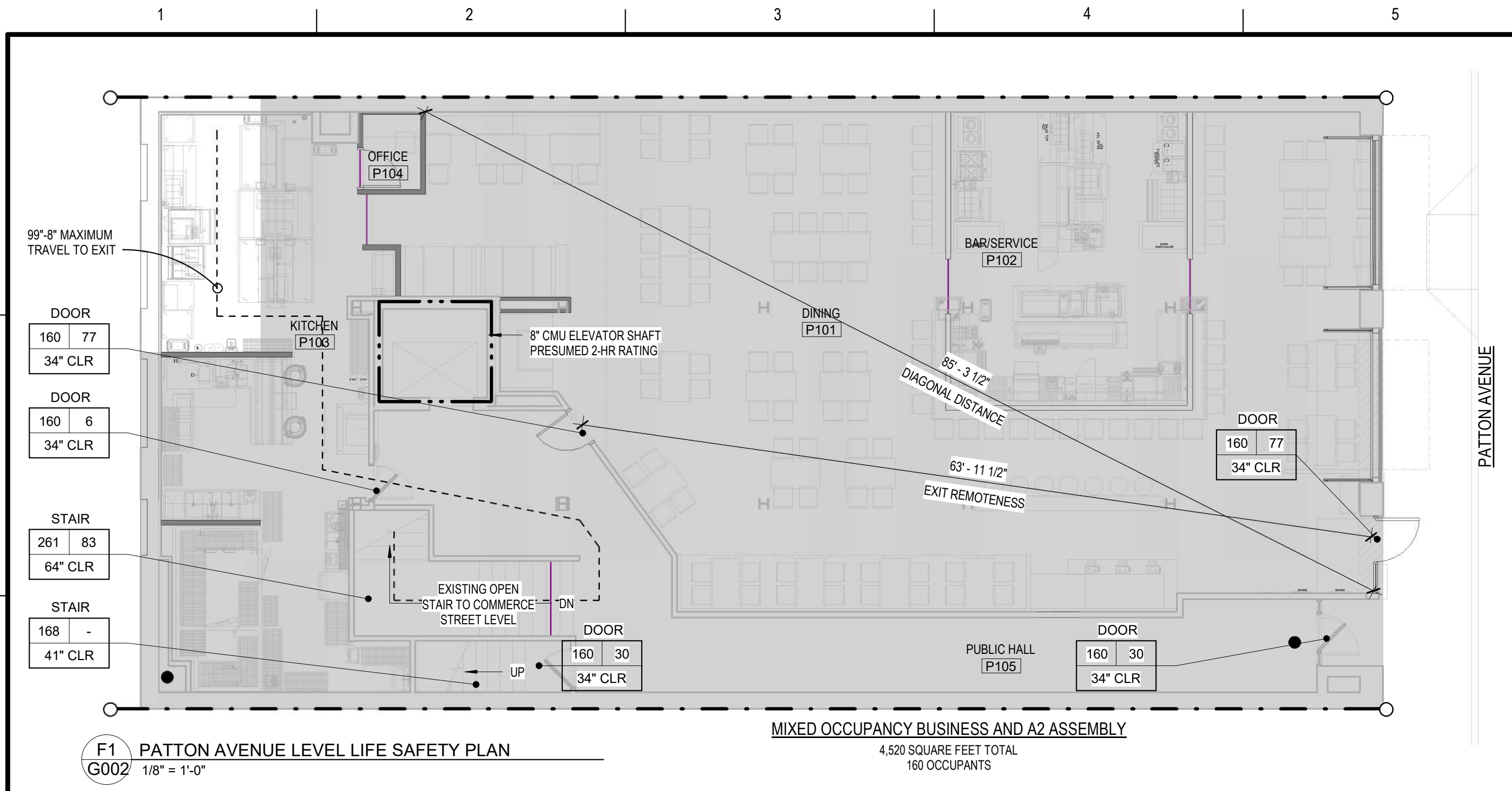
SIMS GROUP CONSULTING ENGINEERS, PC
1270 HENDERSONVILLE ROAD, SUITE 7
ASHEVILLE, NORTH CAROLINA 28803
PHONE: (828) 251-2025
www.simgroupconsultingengineers.com

STRUCTURAL ENGINEER

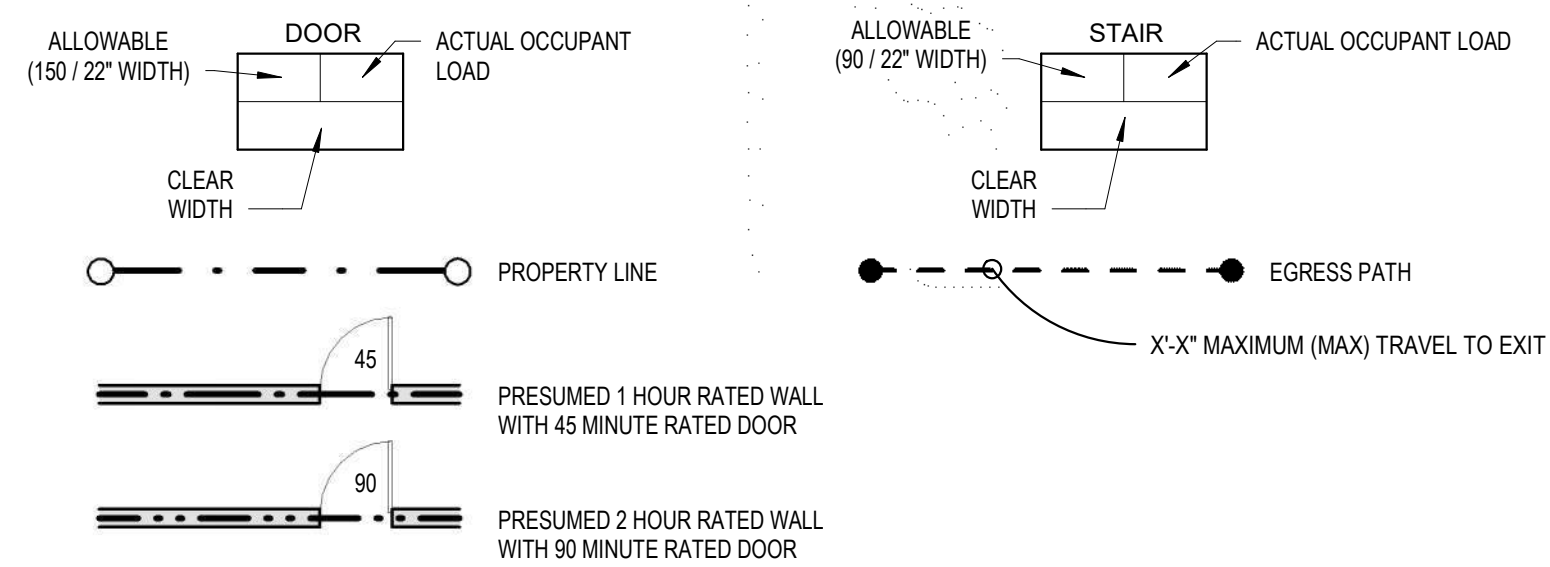
AXIS ENGINEERING, PLLC
224 THOMPSON STREET #117
HENDERSONVILLE, NORTH CAROLINA
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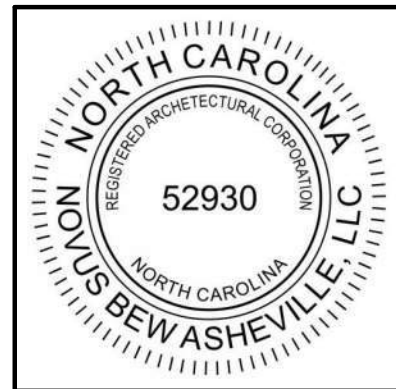


LIFE SAFETY LEGEND



ASHEVILLE
ATLANTA
CHARLOTTE
CHARLOTTE
JACKSONVILLE

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MELTING POT - HOOD AND DUCT CHASE

74 PATTON AVENUE
ASHEVILLE, NORTH CAROLINA 28801

BUILDING LIFE SAFETY PLANS

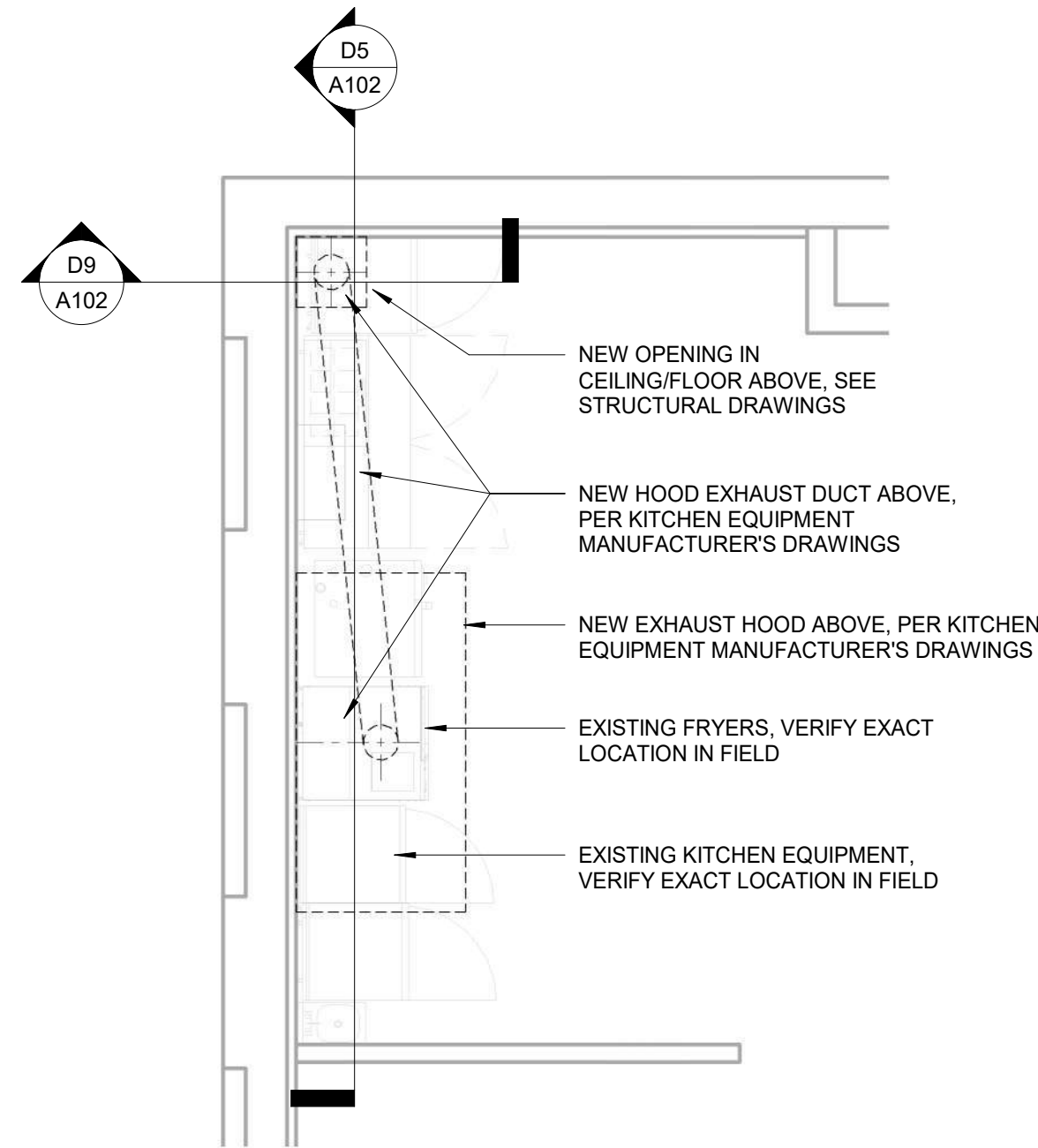
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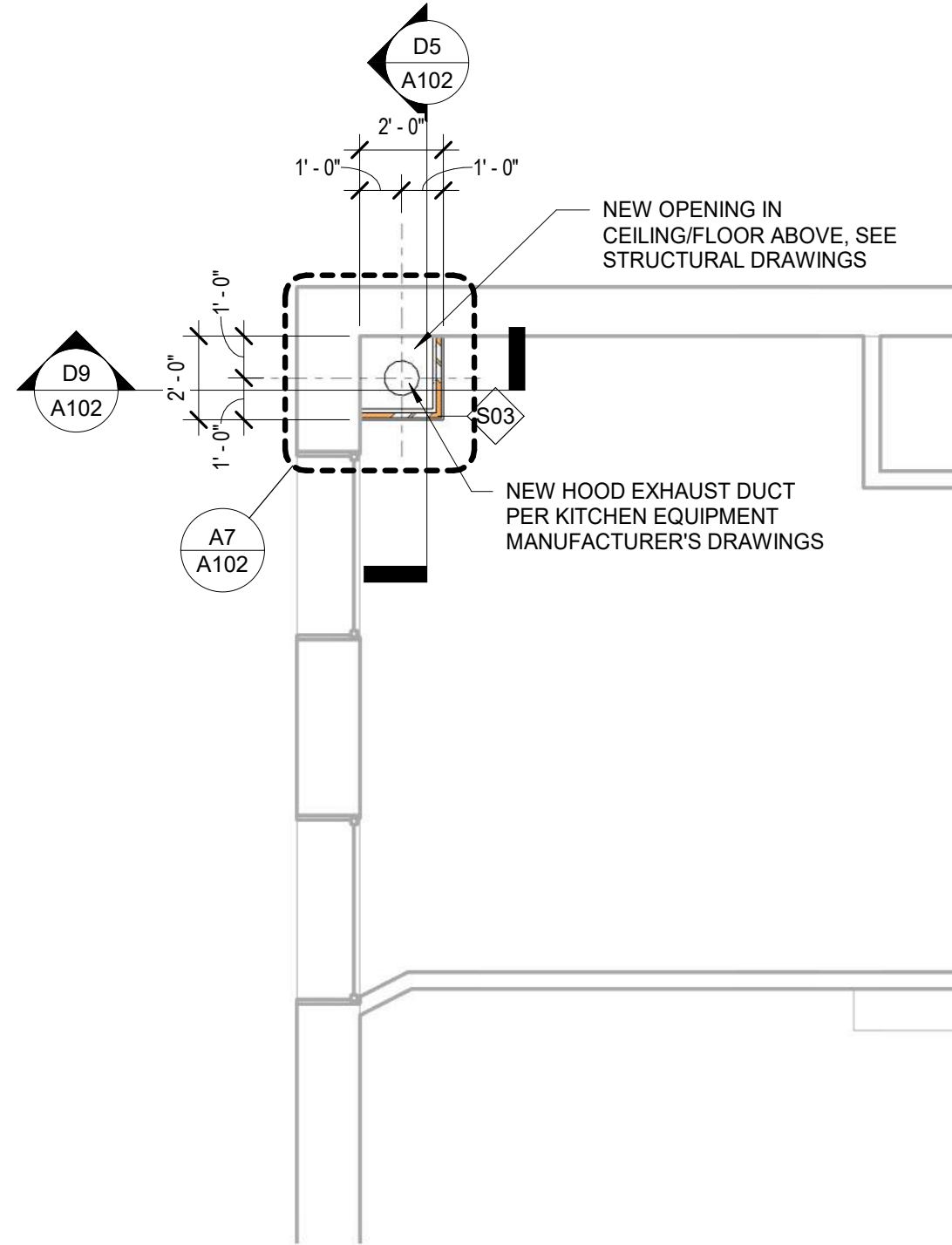
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G002

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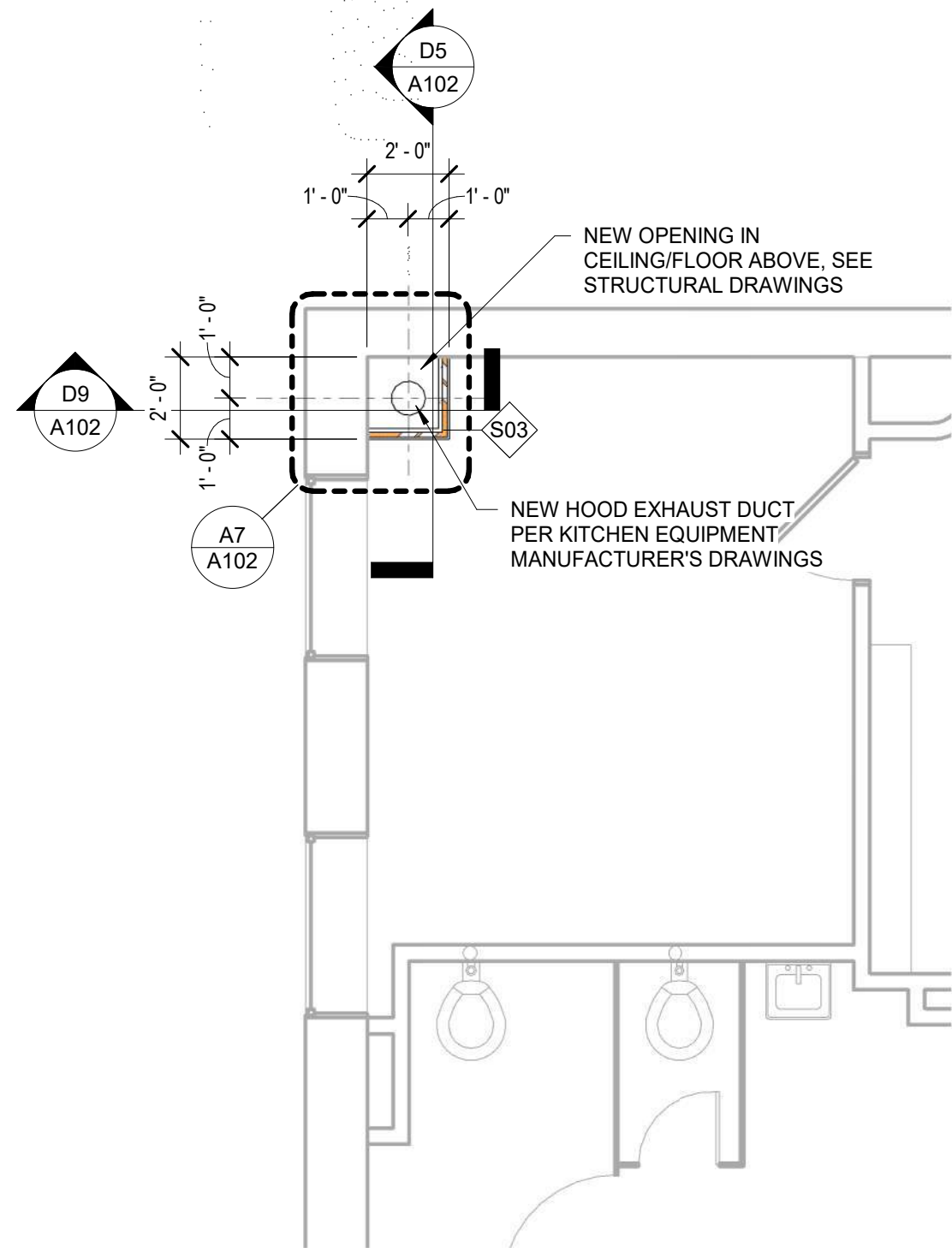
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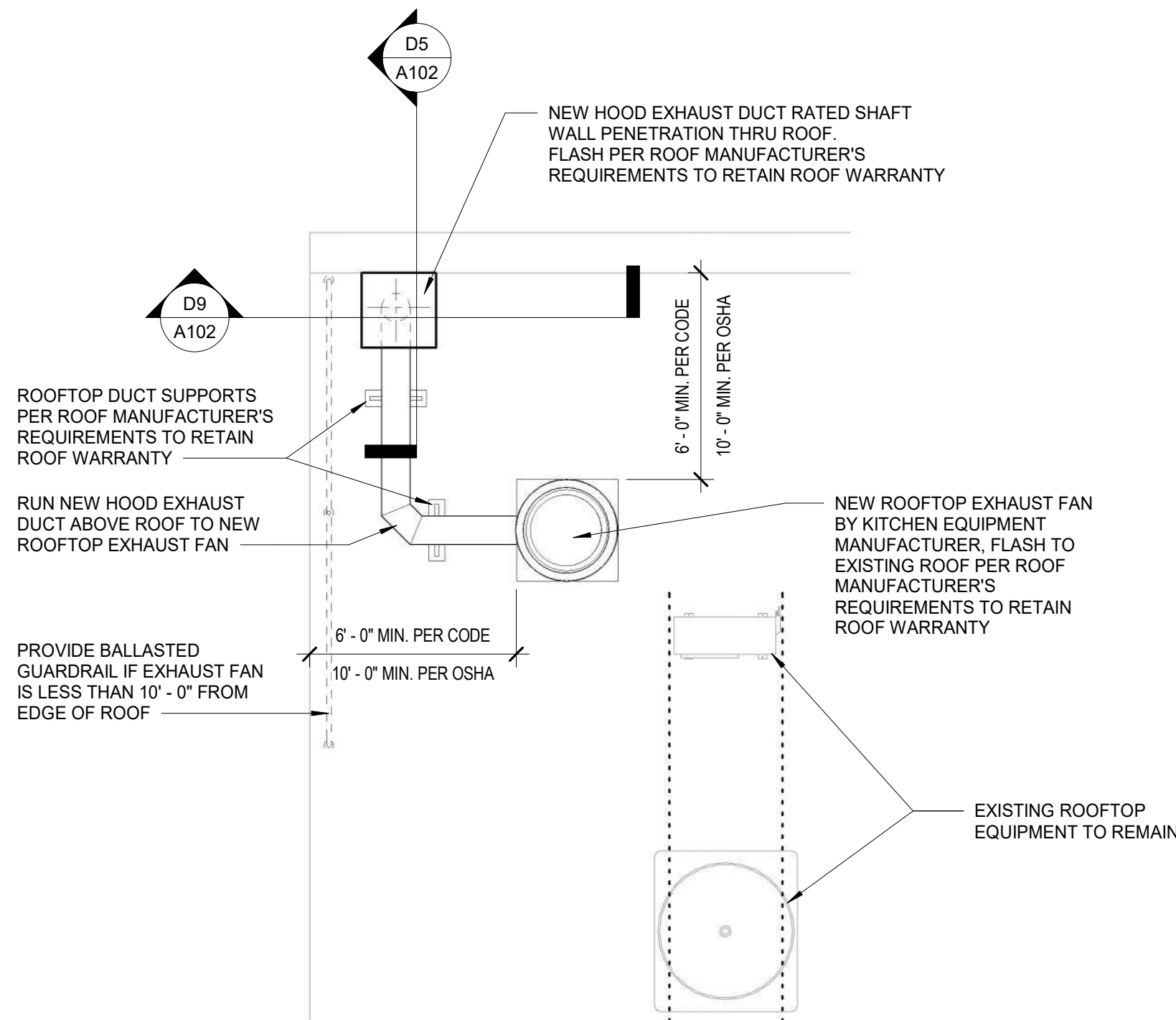
E1
A101
ENLARGED PARTIAL PATTON AVENUE LEVEL PLAN
1/4" = 1'-0"



E4
A101
ENLARGED PARTIAL MIDDLE LEVEL PLAN
1/4" = 1'-0"



A1
A101
ENLARGED PARTIAL UPPER LEVEL PLAN
1/4" = 1'-0"

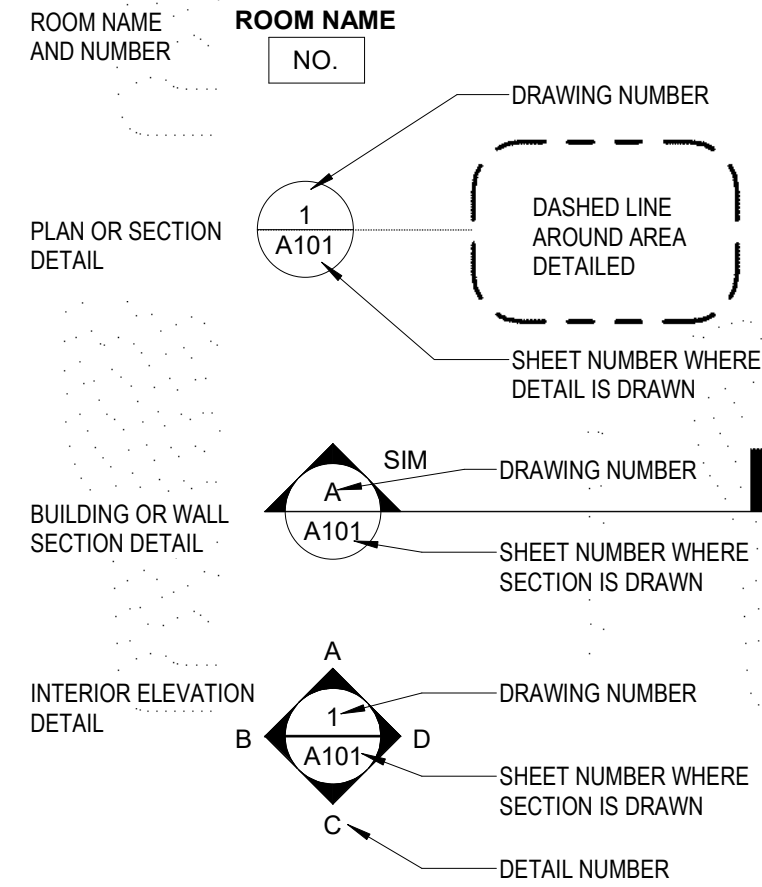


A4
A101
ENLARGED PARTIAL ROOF PLAN
1/4" = 1'-0"

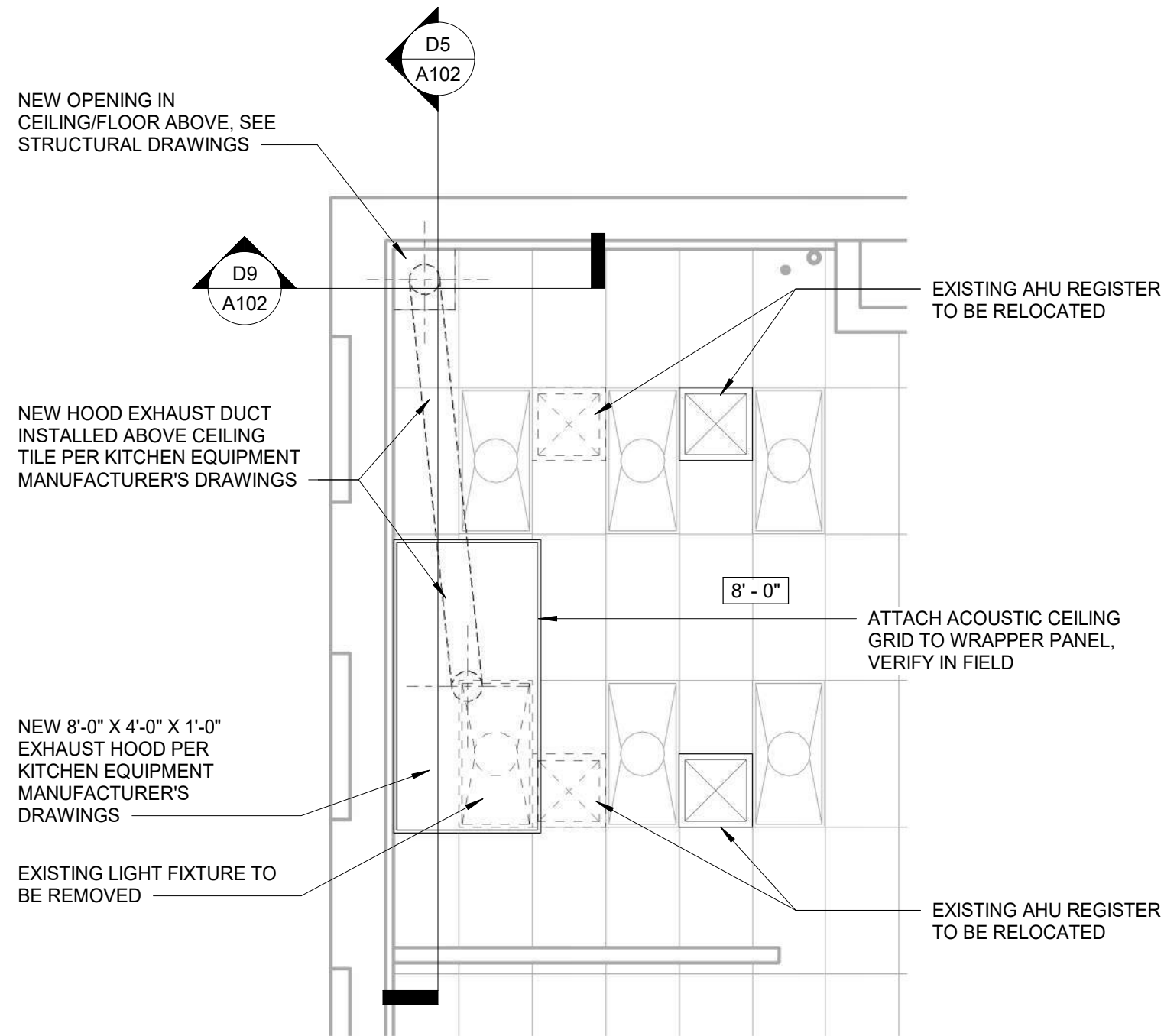
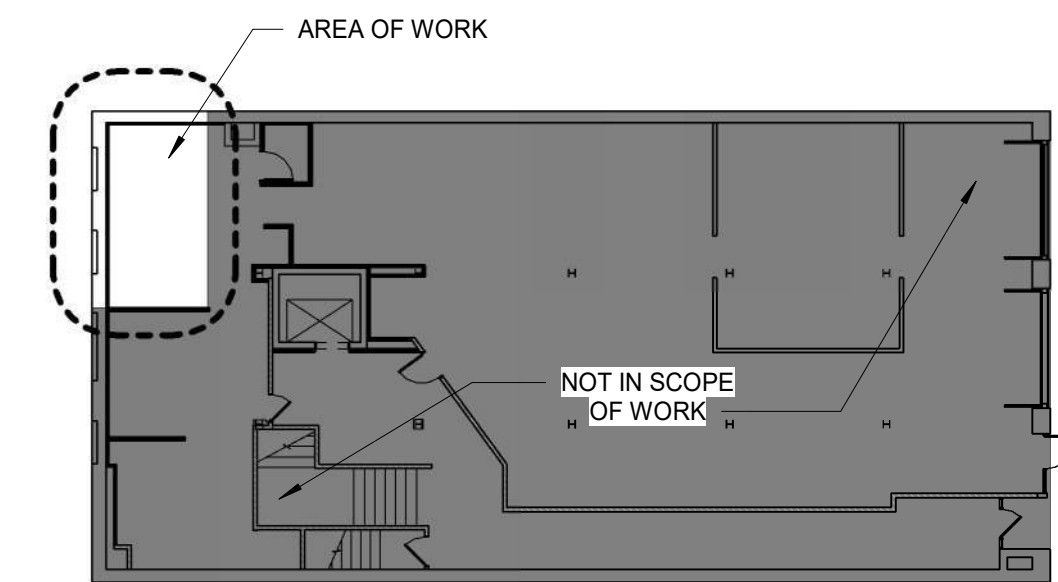
REFERENCE NOTES

- DO NOT SCALE PLANS
- CONSTRUCTION OPERATIONS THAT DISRUPT UTILITY SERVICE FOR ADJACENT TENANTS MUST BE COORDINATED AT LEAST 36 HOURS IN ADVANCE W/ LANDLORD'S REPRESENTATIVE.
- CONSTRUCTION OPERATIONS THAT REQUIRE ACCESS TO MEZZANINE MUST BE COORDINATED AT LEAST 24 HOURS IN ADVANCE W/LANDLORD'S REPRESENTATIVE.
- WORK SCOPE MAY REQUIRE ASSOCIATED WORK IN ADJACENT SPACES. NOT ALL SUCH ASSOCIATED WORK IS SHOWN ON DRAWINGS. AFTER ANY SUCH WORK, FINISHES SHALL BE RESTORED TO A LEVEL APPROVED BY LANDLORD.
- SEE EQUIPMENT DRAWINGS FOR EQUIPMENT INFORMATION
- EXISTING ROOF TO REMAIN. ALL PME EQUIPMENT, PENETRATIONS, ETC SHALL MAINTAIN CURRENT WARRANTY. USE LANDLORDS ROOFER, CAROLINA MOUNTAIN ROOFING.
- PATCH AND REPAIR ANY AREA AFFECTED BY THE DEMOLITION & CONSTRUCTION TO RECEIVE FINISHES TO MATCH EXISTING ADJACENT CONDITIONS.

SYMBOL LEGEND



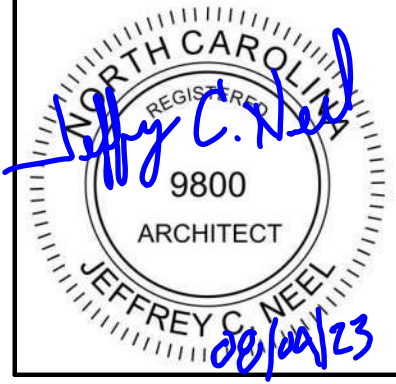
KEY PLAN



A7
A101
ENLARGED PARTIAL PATTON AVENUE LEVEL REFLECTED CEILING PLAN
1/4" = 1'-0"



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MELTING POT - HOOD AND DUCT CHASE

74 PATTON AVENUE
ASHEVILLE, NORTH CAROLINA 28801

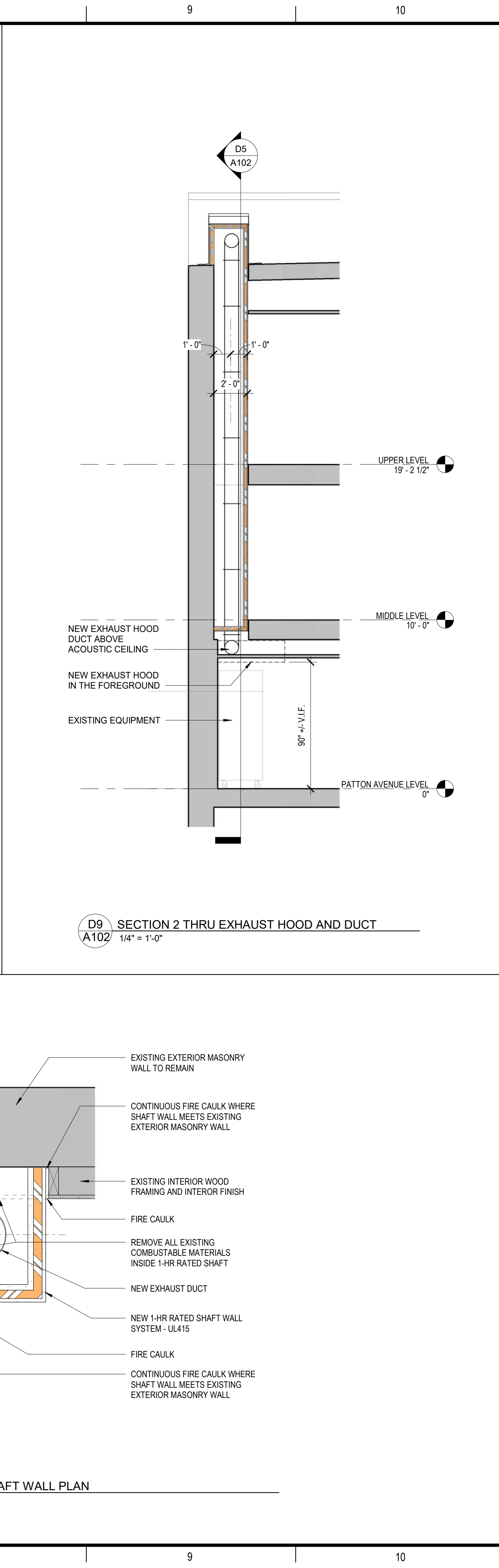
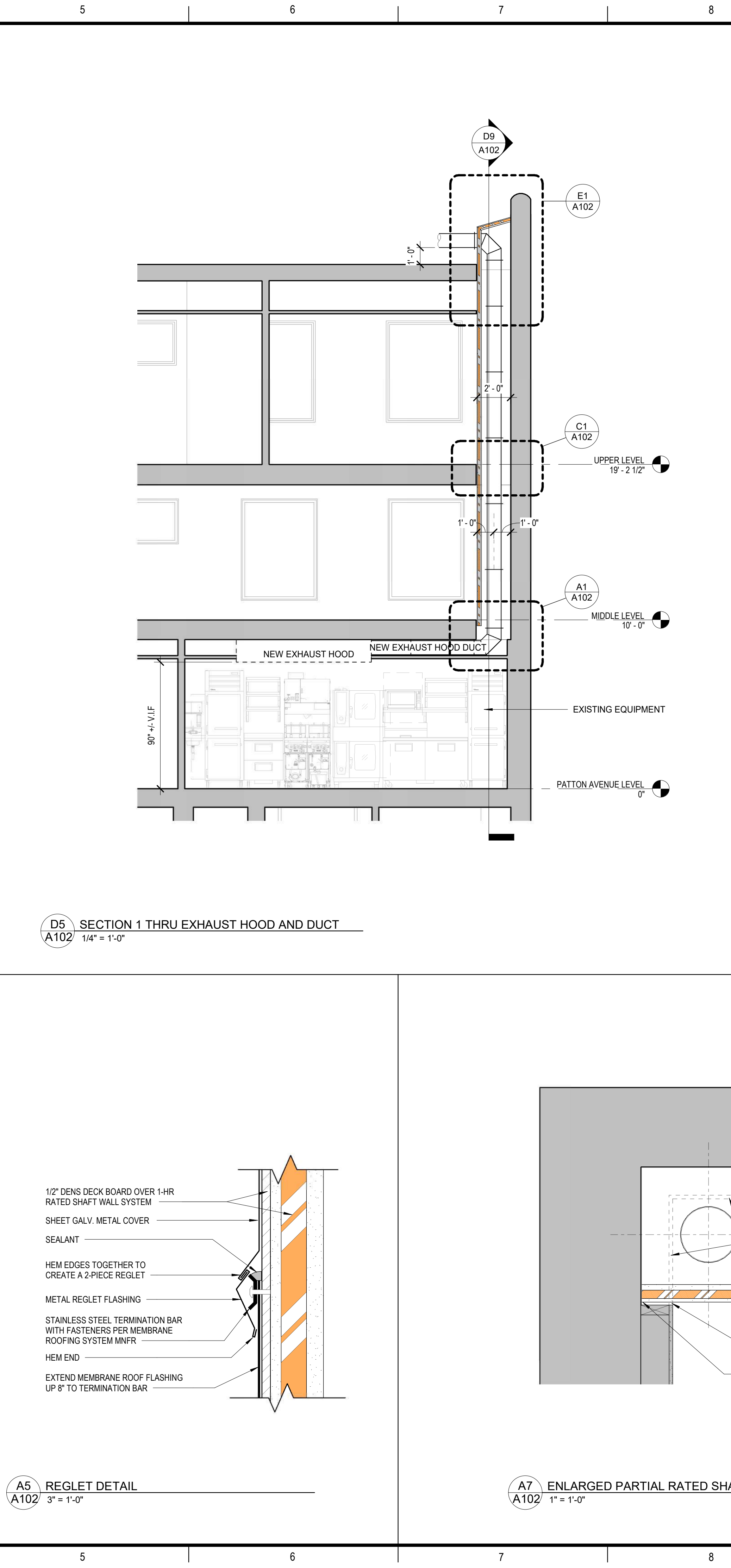
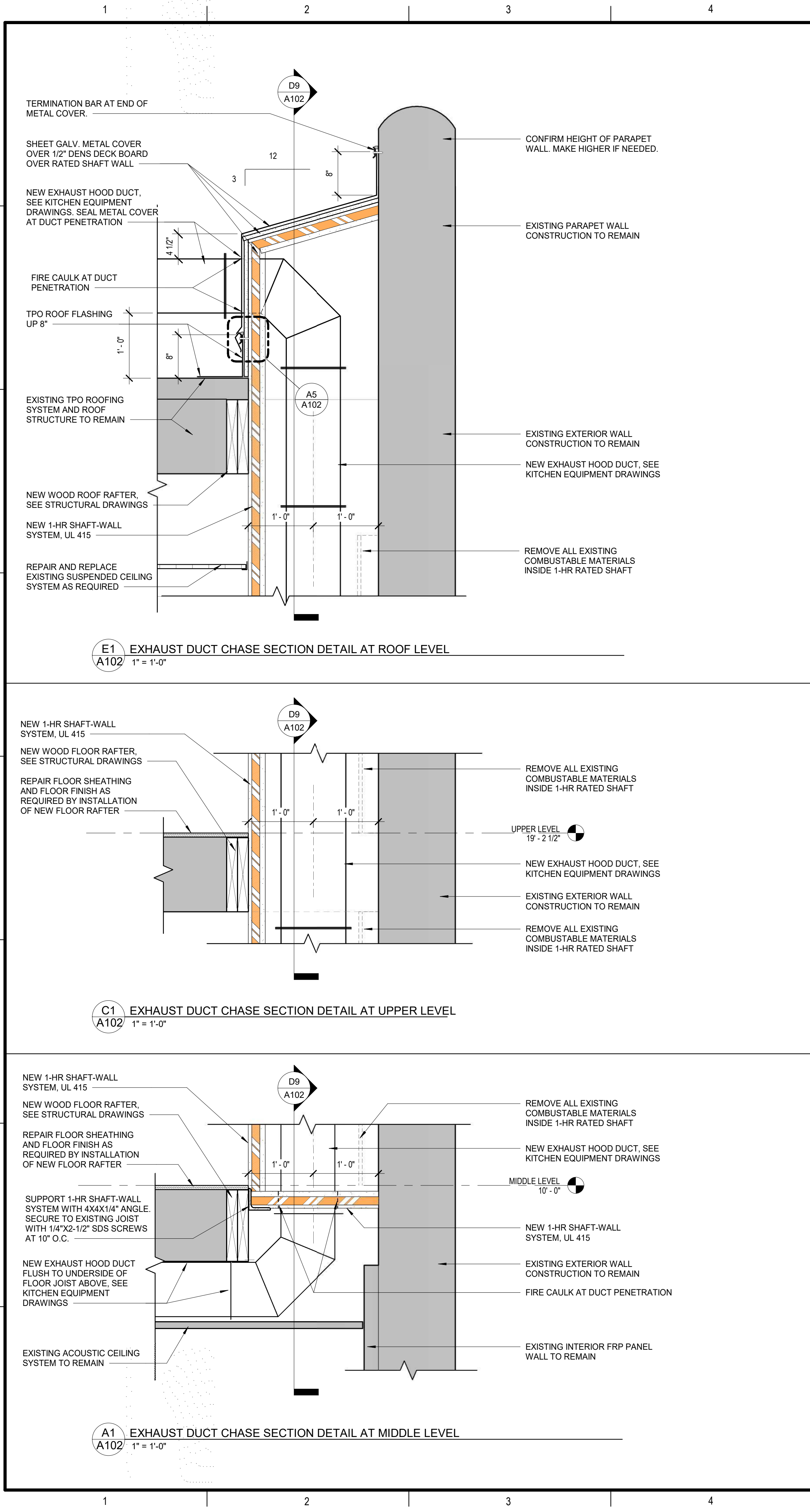
ENLARGED PARTIAL FLOOR PLANS

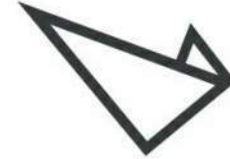
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REGISTERED ARCHITECTURAL CORPORATION
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NORTH CAROLINA
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9800
JEFFREY C. REEL
08/16/23

MELTING POT - HOOD AND DUCT CHASE
74 PATTON AVENUE
ASHEVILLE, NORTH CAROLINA 28801

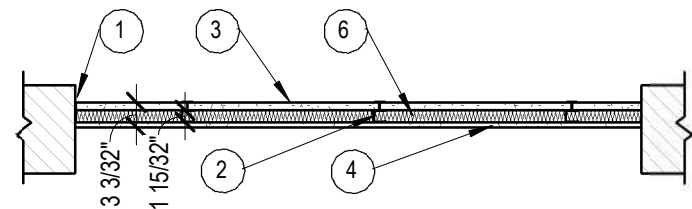
SECTIONS AND SECTION DETAILS

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SHEET NUMBER
A102

1	2	3	4	5	6	7	8	9	10
Design/System/Construction/Assembly Usage Disclaimer									
Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.									
Authorities Having Jurisdiction should be consulted before construction.									
Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.									
When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide information includes specifics concerning alternate materials and alternate methods of construction.									
Only products which bear UL's Mark are considered Certified.									
BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada									
See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States Design Criteria and Allowable Variances									
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variances									
Design No. U415									
February 14, 2022									
Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.									
System A - 1 Hr.									
									
1. Floor, Side and Ceiling Runners — "J" - shaped runner, min 2-1/2 in. deep (min 4 in. deep when System C is used), with unequal legs of 1 in. and 2 in., fabricated from min 24 MSG (min 20 MSG when Item 4A, 4B, 4C, 4D or 7 are used) galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC. "E" - shaped studs (Item 2A) may be used as side runners in place of "J" - shaped runners.									
2. Steel Studs — "C"-H" - shaped studs, min 2-1/2 in. deep (min 4 in. deep when System C is used), fabricated from min 25 MSG (min 20 MSG when Items 2D, 4A, 4B, 4C, 4D or 7 is used) galv steel. Cut to lengths 3/8 to 1/2 in. less than floor-to-ceiling height and spaced 24 in. or 600 mm OC (max 16 in. OC when Items 4A, 4B, 4C, or 4D are used).									
2B. Furring Channels — (Optional, Not Shown) — For use with single or double layer systems. Resilient furring channels fabricated from min 25MSG corrosion protected steel, installed horizontally, and spaced vertically a max 24 in. OC. Flange portion of channel attached to each intersecting "C"-H" or "E" stud on side of stud opposite the 1 in. liner panels with 1/2 in. long Type S or S-12 pan-head steel screws. When furring channels are used, wallboard to be installed vertically only. . Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).									
2C. Furring Channels — For use with System I - "Hat" - shaped, 25 MSG galv steel furring channels attached directly over the inner layers of wallboard to each stud with 2 in. long Type S pan head steel screws. Screws alternate from top flange to bottom flange at each stud intersection. Furring channels spaced vertically max 24 in. OC.									
2D. Steel Framing Members* — (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7). a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 4. b. Steel Framing Members* — Used to attach furring channels (Item 2Da) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels. PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75)									
2E. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below. . Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7). a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4. b. Steel Framing Members* — Used to attach furring channels (Item 2Ea) to studs. Clips spaced 24 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips. STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R									
2F. Steel Framing Members* — (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7). a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 3. b. Steel Framing Members* — Used to attach furring channels (Item 2Fa) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. PLITEQ INC — Type GENIECLIP									
2G. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7). a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 2Gb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4. b. Steel Framing Members* — Used to attach furring channels (Item 2Ga) to studs. Clips spaced 24 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. REGUPOL AMERICA — Type SonusClip									
2H. Steel Framing Members* — (Optional, Not Shown) — Resilient channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7). a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Phillips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 4. b. Steel Framing Members* — Used to attach resilient channels (Item 2Ha) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw. KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip									
2I. Steel Framing Members* — (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7). a. Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 4. b. Steel Framing Members* — Used to attach furring channels (Item 2Ia) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip									
1	2	3	4	5	6	7	8	9	10

3. Gypsum Board* — Gypsum liner panels, nom 1 in. thick, 24 in. or 600 mm (for metric spacing) wide. Panels cut 1 in. less in length than floor to ceiling height. Vertical edges inserted in "H" portion of "C"-H" studs or the gap between the two 3/4 in. legs of the "E" studs. Free edge of end panels attached to long leg of vertical "J" - runners with 1-5/8 in. long Type S steel screws spaced not greater than 12 in. OC. When wall height exceeds liner panel length, liner panel may be butted to extend to the full height of the wall. Horizontal joints need not be backed by steel framing. In System I, butt joints in liner panels are staggered min 36 in. Butt joints backed with 6 in. by 22 in. strips of 3/4 in. thick gypsum wallboard (Item 4). Wallboard strips centered over butt joints and secured to liner panels with six 1-1/2 in. long Type G steel screws, three screws along the 22 in. dimension at the top and bottom of the strips.
CGC INC — Type SLX

UNITED STATES GYPSUM CO — Type SLX

USG BORAL DRYWALL SFZ LLC — Type SLX

USG MEXICO S A DE C V — Type SLX

4. Gypsum Board* —

System A — 1 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. when installed vertically or 8 in OC when installed horizontally. Horizontal joints need not be backed by steel framing.

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, WRC, WRX, USGX.

USG BORAL DRYWALL SFZ LLC — Types C, SCX, SGX, USGX

USG MEXICO S A DE C V — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

5. Joint Tape and Compound — (Not Shown)

Systems A, B, C, E, F, G, H, I

Joints on outer layers of gypsum boards (Item 4 and 4A) covered with paper tape and joint compound. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges. Exposed screw heads covered with joint compound.

6. Batts and Blankets* —

Systems A, B, E, F, G, H, I

(Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity. Any mineral wool or glass fiber batt mineral bearing the UL Classification Marking as to Fire Resistance.

ROCKWOOL — Type AFB, min. density 1.8 pcf / 28.8 kg/m3

THERMAFIBER INC — Type SAFB, SAFB FF

7. Cementitious Backer Units* — (System D) — Nom 1/2 or 5/8 in. thick panels, square edge, attached to studs over gypsum wallboard with 1-5/8 in. long, Type S-12, corrosion resistant steel screws spaced 8 in. OC and staggered 8 in. from gypsum wall board screws. Joints covered with glass fiber mesh tape. Vertical joints staggered one stud cavity from gypsum wallboard joints. Horizontal joints staggered a min of 12 in. from the gypsum wallboard joints.
UNITED STATES GYPSUM CO — Type DCB

8. Laminating Adhesive* — (Optional, Not Shown) — Used to bond outer layer of Cementitious Backer Units (Item 7) to inner layers of Gypsum Board (Item 4) in System D. ANSI A136.1 Type 1 organic adhesive applied with 1/4 in. square notched trowel. See Adhesives (BYWR) in the Fire Resistance Directory or Adhesives (BJLZ) in the Building Materials Directory for names of Classified companies.

9. Lead Batten Strips — (Not Shown, For Use With Item 4A) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4A) and optional at remaining stud locations. Required behind vertical joints.

9A. Lead Batten Strips — (Not Shown, for use with Item 4C) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 6) and optional at remaining stud locations.

10. Lead Discs or Tabs — (Not Shown, For Use With Item 4A) — Used in lieu of or in addition to the lead batten strips (Item 9) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 4A) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

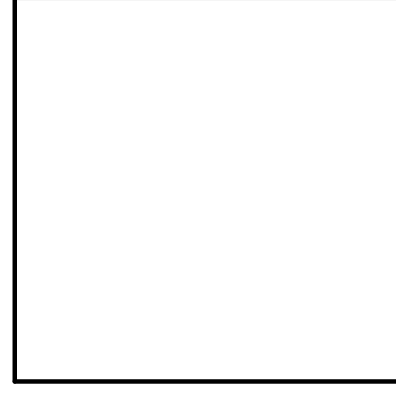
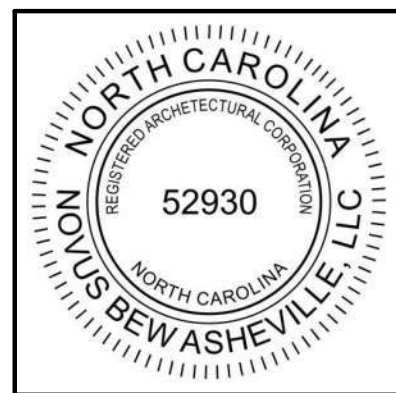
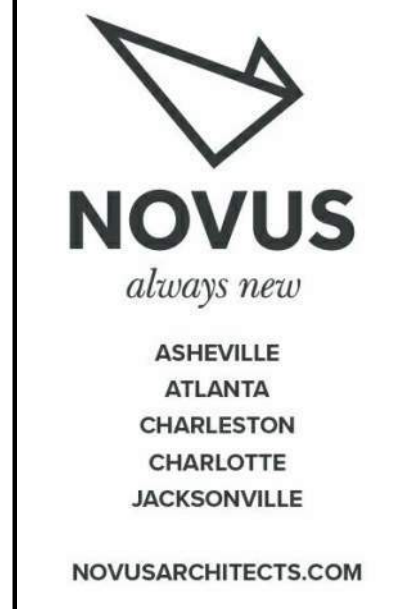
10A. Lead Discs — (Not Shown, for use with Item 4C) — Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

11. Lead Batten Strips — (Not Shown, For Use With Item 4B) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4B) and optional at remaining stud locations.

12. Lead Tabs — (Not Shown, For Use With Item 4B) — 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 4B) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2022-02-14

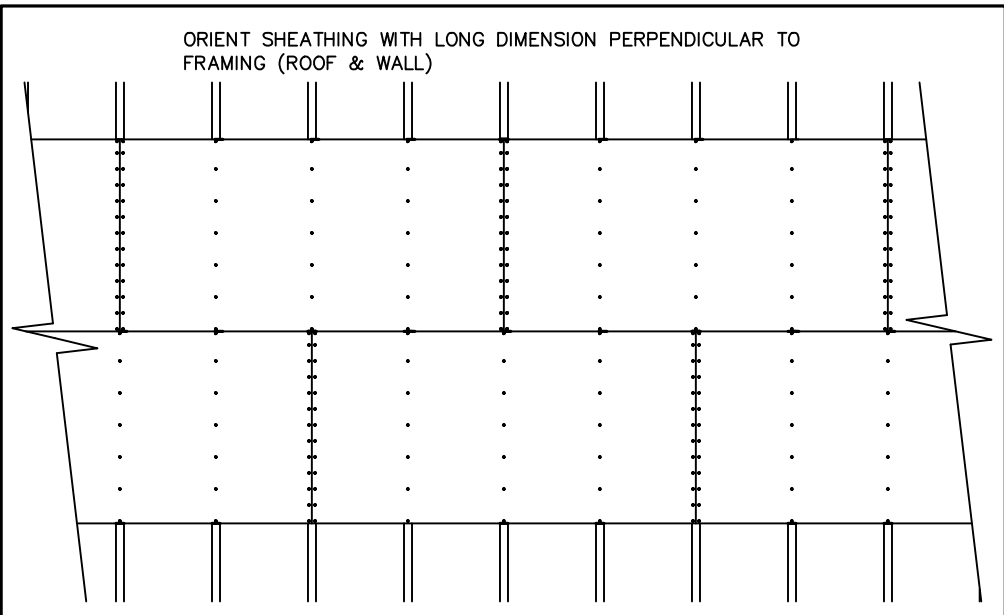


MELTING POT - HOOD AND DUCT CHASE

74 PATTON AVENUE
ASHEVILLE, NORTH CAROLINA 28801

UL LISTINGS

REVISIONS:		
No.	Description	Date
DRAWN BY: SPV		
CHECKED BY: JCN		
DATE: AUGUST 03, 2023		
NOVUS JOB NUMBER		
2020-3104.00		
SHEET NUMBER		
A103		



ROOF AND WALL NAILING REQUIREMENTS
ROOF SHEATHING SHALL BE MIN. 5/8" (U.N.O.) W/ 8d RING-SHANK NAILS (2-1/2"x0.131") AT 6" O.C. AT ALL BUTT JOINTS AND 12" O.C. WITHIN THE FIELD. SHEATHING WITHIN 4'-0" OF RIDGES, HIPs, EAVES, GABLE ENDS OR GABLE END TRUSSES SHALL BE NAILED W/ 8d RING-SHANK NAILS (2-1/2"x0.131") AT 4" O.C. AT THE EDGES AND 8" O.C. WITHIN THE FIELD. WALL SHEATHING SHALL BE 15/32" (U.N.O.) APA SPAN RATED PLYWOOD W/ 8d NAILS AT 4" O.C. AT PANEL EDGES AND 12" O.C. AT PANEL INTERIOR.

FLOOR SHEATHING NAILING REQUIREMENTS
FLOOR SHEATHING SHALL BE 3/4" (U.N.O.) 1/8" APA SPAN RATED PLYWOOD SCREWED @ 6" O.C. ALONG PANEL ENDS AND EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS USING NO. 8 X 2-1/2" LONG WOOD SCREWS.

**TYP. WOOD
NAILING REQUIREMENTS**
NO SCALE

DESIGN LOAD CRITERIA

- A. BASIC WIND SPEED, $V_{\text{std}} = 90$ MPH (116 MPH V_{ult})
B. IMPORTANCE FACTOR = 1.0 (RISK CATEGORY II)
C. ENCLOSURE CATEGORY = PARTIALLY ENCLOSED BLDG.
D. EXPOSURE CATEGORY = 1
E. INTERNAL PRESSURE COEFF. = +/- 0.55
F. ROOF PRESSURE (MWFRS) = +10.0 & -10 PSF
G. LATERAL WALL PRESSURE (MWFRS) = +12 & -12 PSF
H. MAX. COMP. & CLADDING (ROOF) = +13.0 & -38.9 PSF (ZONE 3)
I. MAX. COMP. & CLADDING (DOORS/WINDOWS) = +19.1 & -24.1 PSF
J. USE NON-IMPACT RESISTANT WINDOWS & DOORS

K. LIVE LOADS:	ROOF DL:	WALL DL:	CEILING DL:	FLOOR DL:
FLOOR=40 PSF	18.25 PSF	conc.=58 PSF	6.75 PSF	20 PSF
ROOF =20 PSF		slab=12 PSF		

GENERAL NOTES:

- CONTRACTOR IS RESPONSIBLE FOR AND SHALL COORDINATE AND VERIFY ALL DIMENSIONS, JOB CONDITIONS AND DETAILS BEFORE PROCEEDING WITH WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.
- DETAILS SHOWN IN ANY SECTION APPLY TO ALL SIMILAR SECTIONS AND CONDITIONS UNLESS NOTED OTHERWISE (U.N.O.).
- CONTRACTOR SHALL FULLY BRACE AND OTHERWISE PROTECT ALL WORK IN PROGRESS UNTIL THE BUILDING IS COMPLETED.
- ALL STRUCTURAL ITEMS FOR THIS PROJECT HAVE BEEN DESIGNED & ANALYZED IN ACCORDANCE WITH APPROPRIATE PROVISIONS OF EACH OF THE FOLLOWING:
 - THE NORTH CAROLINA BUILDING CODE (NCC) 2018 EDITION
 - ASCE 7-16 LOAD REQUIREMENTS
 - ACI STANDARD 318-19 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE
 - BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530/ASCE 5 & ACI 530.1/ASCE 6)
 - AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL" 2015 EDITION
 - F. ALL ALTERED STRUCTURES HAVE BEEN EVALUATED AND ANALYZED FOR STRUCTURAL ADEQUACY & INTEGRITY PER THE 2018 EXISTING BUILDING CODE, AND MEET THE DESIGN/LOAD REQUIREMENTS.
 - NFPA70 - NEC 2020 ED.
- ALL SLIDING GLASS DOORS AND WINDOWS SHALL CONFORM TO THE NCC, 2018 EDITION.
- ALL LINTELS BY CAST-CRETE OR APPROVED EQUAL. INSTALL REINFORCING AND CONSTRUCT PER MANUFACTURER'S RECOMMENDATIONS.
- ALL NAILING PATTERNS, CONNECTIONS AND OTHER APPLICABLE CONSTRUCTION SHALL CONFORM TO THE NCC, 2018 EDITION. SHOULD CONFLICTS ARISE, THE MORE STRINGENT SHALL PREVAIL.
- NO PROVISION HAS BEEN MADE IN THE STRUCTURAL DESIGN FOR TEMPORARY CONDITIONS OCCURRING DURING CONSTRUCTION, UNLESS SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SHORING AND BRACING REQUIRED TO RESIST STRESSES OR INSTABILITY OCCURRING DURING CONSTRUCTION.
- ALL CONDENSATE/ROOF DRAIN SPOUTS SHALL BE DISCHARGED A MINIMUM OF 1'-0" AWAY FROM BUILDING.
- WHEN THIRD PARTY DRAFTING SERVICES ARE PROVIDED, AXIS IS RELYING UPON ACCURACY OF EXISTING CONDITIONS. AXIS TAKES NO RESPONSIBILITY FOR INACCURATE OR INCORRECT EXISTING CONDITIONS UNLESS SPECIFICALLY VERIFIED PER CONTRACT BY AXIS.

CONCRETE AND REINFORCING

- ALL CONCRETE WORK SHALL CONFORM TO THE LATEST ACI "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 318"
- ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTHS AS INDICATED BELOW:

CONCRETE STRENGTH	TYPE AGGREGATE	LOCATION
3,000 PSI	STONE	ELEVATED SLAB/BEAMS
3,000 PSI U.N.O.	STONE	SLAB ON GRADE/OTHER
- ALL REINFORCING STEEL SHALL BE INTERMEDIATE GRADE, NEW BILLET STEEL, DEFORMED BARS, CONFORMING TO ASTM A-615, GRADE 60. ALL BARS SHALL BE SECURELY SUPPORTED AND WIRED IN PLACE PRIOR TO POURING CONCRETE.
- ALL WELDED WIRE FABRIC (W.W.F.) SHALL CONFORM TO ASTM A-1064. UNLESS NOTED, ALL BARS MARKED CONT. SHALL BE SPLICED AT ALL LAP POINTS AND CORNERS AND DEVELOPED AT NON-CONTINUOUS ENDS AS PER TYPICAL DETAILS.
- CONCRETE COVER FOR REINFORCING BARS SHOWN IN TYPICAL DETAILS.
- ALL CONSTRUCTION JOINTS SHALL BE THOROUGHLY CLEANED JUST BEFORE PLACING NEW CONCRETE.
- CONTRACTOR SHALL COORDINATE PLACEMENT OF, OR BOX OUT FOR, ALL PIPE SLEEVES, OPENINGS, ETC. REQUIRED FOR VARIOUS TRADES.
- CONTRACTOR SHALL COORDINATE AND NOTIFY OTHER TRADES IN SUFFICIENT TIME TO ALLOW THEM TO SET ANCHORS, INSERTS, BOLTS, HANGERS, ETC., AS REQUIRED FOR THEIR USE.
- UNDER NO CIRCUMSTANCES SHALL CONCRETE BE PUMPED THROUGH ALUMINUM PIPES. CONCRETE SHALL NOT BE PLACED IN CONTACT WITH ALUMINUM, ALUMINUM MIXING DRUMS, TRUCK MIXERS, BUGGIES, CHUTES, CONVEYORS, TRELLIS PIPES, AND OTHER EQUIPMENT MADE OF ALUMINUM SHALL NOT BE USED ON THIS PROJECT.
- SUMPS OF OVER 4 INCHES WILL NOT BE PERMITTED UNLESS THE HWRF ADMIXTURE (SUPER PLASTICIZER) IS USED. MAXIMUM SLUMP IS THEN 8 INCHES UNLESS OTHERWISE DIRECTED BY THE ENGINEER. IN ANY CASE, THE MAXIMUM WATER-CEMENT RATIO SHALL BE 0.50 FOR 3,000 PSI CONCRETE.
- NO ADMIXTURE SHALL BE USED IN CONCRETE EXCEPT WITH THE PERMISSION OF THE ENGINEER AND AFTER LABORATORY DESIGN MIX APPROVAL. ALL ADMIXTURES SHALL CONTAIN NO MORE CHLORIDE IONS THAN ARE PRESENT IN MUNICIPAL DRINKING WATER.
- WATER REDUCING ADMIXTURE SHALL CONFORM TO THE ASTM C-494, TYPE A, AND SHALL BE USED IN ALL CONCRETE.
- AIR ENTRAINING ADMIXTURE SHALL CONFORM TO ASTM C260. AIR CONTENT OF CONCRETE SHALL BE USED AS FOLLOWS:
 - FOR CONCRETE EXPOSED TO SOIL AND/OR WEATHER, 5%.
 - FOR INTERIOR WALLS, COLUMNS, AND SLABS, 3%.
- ALL EXPOSED CONCRETE SLABS SHALL RECEIVE A CURING COMPOUND. THE CURING COMPOUND SHALL CONFORM TO ASTM C309 AND SHALL HAVE 30% SOLIDS MINIMUM.
- CJ - CONTROL JOINTS IN CONCRETE SLABS ARE REQUIRED UNLESS THE CONCRETE SLABS ARE CONTAINING SYNTHETIC FIBER REINFORCEMENT THAT HAVE FIBER LENGTHS FROM 1/2" TO 2" IN LENGTH. DOSAGE AMOUNTS SHALL BE 1.0 TO 1.5 POUNDS PER CUBIC YARD IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION. SYNTHETIC FIBERS SHALL COMPLY WITH ASTM C 1116. THE MANUFACTURER OR SUPPLIER SHALL PROVIDE CERTIFICATION OF COMPLIANCE WITH ASTM C 1116 TO ENGINEER AND UPON REQUEST TO BUILDING OFFICIAL.
- FAP CONTINUOUS CONCRETE BEAMS SHALL HAVE BOTTOM STEEL SPLICES OVER SUPPORTS AND TOP STEEL LAP SPLICES AT MIDSPAN OF BEAM. PROVIDE TOP STEEL STANDARD 90° END HOOKS AT DISCONTINUOUS ENDS OF BEAM.
 - EPOXY SHALL BE HILTI HIT-RE 500, SIMPSON SET OR SIKKA ANCHORFIX-2
- ALL DOWELS UNDER TENSION SHALL BE SUPPLIED WITH HOOKED BARS (HOOK TO BE 8"BAR DIAMETER) OR SPLICED WITH A DEVELOPMENT LENGTH EQUAL TO 40"BAR DIAMETER.
- CONCRETE AGGREGATE SHALL MEET ASTM C33 REQUIREMENTS.

DEMOLITION NOTES:

- CONTRACTOR SHALL INSPEC AND VERIFY THE SCOPE OF WORK, ANY ADDITIONAL WORK NOT SPECIFICALLY NOTED ON THE DRAWINGS, BUT BECOMES APPARENT UPON CAREFUL FIELD INSPECTION, SHALL BE CONSIDERED AS PART OF THIS CONTRACT. PROVIDE SMOOTH, UNDETECTABLE TRANSITIONS BETWEEN EXISTING TO NEW CONSTRUCTION.
- OWNER HAS FIRST SALVAGE RIGHTS TO ANY ELEMENTS OF EXISTING CONSTRUCTION TO BE REMOVED DURING DEMOLITION OPERATIONS.
- PATCH AND REPAIR ALL CONSTRUCTION TO REMAIN WHERE AFFECTED BY DEMOLITION OPERATIONS.
- FIELD VERIFY ALL DIMENSIONS ASSOCIATED WITH EXISTING CONSTRUCTION.
- WHERE DEMOLITION OPERATIONS AFFECT EXISTING STRUCTURAL SYSTEM COMPONENTS TO REMAIN, SHORE THESE COMPONENTS AS REQUIRED UNTIL NEW CONSTRUCTION IS IN PLACE.

DEMOLITION NOTES (cont.):

- REMOVE OR CAP AND ABANDON ALL ELECTRICAL WIRING IN WALLS TO BE REMOVED.
- REMOVE OR CAP FOR FUTURE USE ALL PLUMBING LINES AND OUTLETS IN WORK TO BE DEMOLISHED.
- PATCH ANY EXISTING CONSTRUCTION AS REQUIRED WHICH IS DAMAGED DUE TO THE INSTALLATION OF NEW FIXTURES, ELECTRICAL DEVICES, EQUIPMENT, OR ANY OTHER NEW COMPONENT.
- ALL EXISTING STRUCTURAL SUPPORT COMPONENTS SHALL REMAIN INTACT EXCEPT AS OTHERWISE INDICATED.
- PROTECT ALL EXISTING FINISHES TO REMAIN FROM DAMAGE DURING THE DURATION OF NEW CONSTRUCTION.
- PROVIDE MINOR ALTERATIONS TO EXISTING H.V.A.C. SYSTEM AS REQUIRED TO ACCOMMODATE NEW WORK, SUCH AS RELOCATION OF DIFFUSERS AND RELATED ALTERATIONS OF ASSOCIATED DUCTWORK.
- PATCH AND REPAIR EXISTING CEILINGS WHERE ELECTRICAL AND MECHANICAL DEVICES HAVE BEEN REMOVED OR RELOCATED. MATCH EXISTING.

FOUNDATION NOTES:

- FOUNDATIONS FOR THIS PROJECT HAVE BEEN DESIGNED USING AN ASSUMED SOIL BEARING CAPACITY OF 2000 PSF. COMPACT CLEAN FILL TO 95% MODIFIED PROCTOR MAXIMUM DENSITY IN 12" MAX. LOOSE LAYERS.
- IF MUCK MATERIAL IS ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK AND CONSULT WITH THE ENGINEER OF RECORD AND A LICENSED GEOTECHNICAL ENGINEER TO DETERMINE REMEDIAL LIMITS AND/OR REMEDIATION REQUIREMENTS.
- ALL WALL FOOTINGS SHALL BE CENTERED UNDER 8" CMU BEARING WALLS UNLESS OTHERWISE NOTED.
- BACKFILLING AGAINST FOUNDATION WALLS SHALL BE DONE CAREFULLY WITH SMALL COMPACTION EQUIPMENT. AFTER SLABS ON GROUND ARE IN PLACE AND CONCRETE HAS SET, NO TRUCKS, BULLDOZERS, ETC. SHALL BE ALLOWED CLOSER THAN 6'-0" TO ANY FOUNDATION WALL.
- CONCRETE SLABS ON GRADE TO BE 4" THICK STONE CONCRETE REINFORCED WITH FIBERMESH AND PLACED ON PVC VAPOR BARRIER AND PROPERLY COMPACTED SUBBASE.
- CONTRACTOR SHALL TREAT SOIL BENEATH BUILDING FOR TERMITES.
- KEEP FOOTING EXCAVATIONS CONTINUALLY DRY BEFORE POURING CONCRETE. EXCAVATE MATERIAL SOFTENED BY WATER AND THICKEN THE FOOTING TO SUITE. CONTRACTOR SHALL TREAT SOIL BENEATH BUILDING FOR TERMITES.
- TOP OF SLAB-OR-GRADE IS AT FINISHED FLOOR DATUM ELEVATION. [+0'-0"] U.N.O. TOP OF FOOTINGS ARE AT ELEVATION (+2'-0") BELOW FINISHED FLOOR DATUM ELEVATION EXCEPT AS NOTED ON THE PLANS.

ROOF PLAN NOTES

- THE ROOF PLAN IS NOT INTENDED TO TO SERVE AS A TRUSS DESIGN. IT IS TO INDICATE ROOF, CEILING SLOPES AND HEIGHTS ONLY.
- ALL TRUSSES AND GIRDER TRUSSES SHALL BE DESIGNED AND CERTIFIED BY TRUSS MANUFACTURER'S REGISTERED ENGINEER. ALL HANGERS AND ANCHORS PART OF TRUSS SYSTEM SHALL BE SPECIFIED BY THE SAME.
- SHOP DRAWING TO BE PREPARED, SIGNED AND SEALED BY MANUFACTURER'S ENGINEER AND BE PROVIDED TO ENGINEER FOR ACCEPTANCE PRIOR TO FABRICATION AND ERECTION.
- ALL ROOF PITCHES ARE TO BE SET AS INDICATED ON PLANS AND ELEVATIONS.
- TOP PLATE HEIGHTS VARY. SEE BUILDING SECTIONS, WALL SECTIONS, AND ELEVATIONS FOR BEARING HEIGHTS.
- TRUSS SPACING SHALL BE 24" O.C. UNLESS OTHERWISE NOTED.
- CONVENTIONAL FRAMING SHALL BE 24" O.C. OR AS OTHERWISE NOTED.
- INSTALL TRUSSES AND BRACING IN STRICT CONFORMANCE WITH TRUSS MANUFACTURER'S RECOMMENDATIONS.
- TRUSSES SHALL BE DESIGNED TO BEAR ON EXISTING AND PROPOSED WALLS AS NOTED ON THE PLANS.
- COMPONENTS AND CLADDING TO BE FASTENED TO STRUCTURE PER MANUFACTURER'S RECOMMENDATIONS AND THE NCC, 2018 ED.
- THE ROOF FRAMING HAS BEEN DESIGNED BASED ON THE TRUSS LAYOUT AND CONFIGURATION SHOWN ON THE PLANS. ANY DEVIATIONS MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD AND SHALL BE CLEARLY MARKED ON THE SHOP DRAWINGS.
- MAXIMUM ROOF DEFLECTION SHALL BE LIMITED TO L/240 FOR THE TOTAL LOAD PLUS LIVE LOADS & L/360 FOR THE LIVE LOAD.
- PROVIDE MINIMUM TOP CORD LL=30PSF, TOP CORD DL=18.25PSF & BOTT. CORD DL=6.75PSF. USE MAX. 15 PSF DL TO RESIST UPLIFT FOR CONC. TILE ROOFS. ALL OTHER TRUSS TYPES USE 10 PSF MAX. LOAD.

WOOD CONSTRUCTION

- WOOD FRAMING AND FASTENING SCHEDULES SHALL CONFORM TO THE NCC, 2018 ED. AND NDS-2018, U.N.O. SHOULD CONFLICTS ARISE, THE MORE STRINGENT SHALL PREVAIL.
- SPECIFIED FASTENERS SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS AND W/ THE SCREWS/NAILS TO DEVELOP THE MAXIMUM CAPACITIES SHOWN.
- ALL STRUCTURAL LUMBER SHALL BE NO LESS THAN NO. 2 SOUTHERN PINE OR AS OTHERWISE NOTED. NON-STRUCTURAL LUMBER SHALL BE STUD.
- ALL EXPOSED LUMBER OR LUMBER IN CONTACT W/ MASONRY OR CONCRETE SHALL BE PRESSURE TREATED. NON-PRESSURE TREATED LUMBER SHALL BE SEPARATED FROM MASONRY/CONCRETE W/ ASPHALT IMPREGNATED FELT OR GALVANIZED METAL.
- WHERE CONNECTIONS HAVE NOT BEEN DETAILED ON PLANS, PROVIDE ALL APPROVAL OF THE ENGINEER.
- INDICATED ON THE DRAWINGS. IN ABSENCE OF EXACT JOINT LOADS, ALL CONNECTIONS SHALL BE DETAILED TO DEVELOP THE FULL CAPACITY OF THE CONNECTED MEMBERS.
- TOP OF STRUCTURAL FRAMING IS AT ELEVATION AS NOTED ON THE PLANS.
- FLOOR SHEATHING SHALL BE 3/4" TONGUE AND GROOVE APA STURDI-FLOOR PLYWOOD SHEATHING PANELS, U.N.O. (PANEL INTERIOR) AND 6" O.C. AT PANEL EDGES, U.N.O.
- WALL SHEATHING SHALL BE 15/32" (U.N.O.) CDX PLYWOOD, WITH 10d NAILS AT 4" O.C. AT ALL EDGES AND 12" O.C. IN THE FIELD, U.N.O.
- ROOF SHEATHING SHALL BE 5/8" (U.N.O.) THICK APA SPAN-RATED PLYWOOD SHEATHING W/ "H" CLIPS, U.N.O. FASTEN SHEATHING TO SUPPORTING FRAMING USING 10d NAILS SPACED AS FOLLOWS:
 - 6" O.C. AT SUPPORTED PANEL EDGES.
 - 12" O.C. IN THE FIELD.
 - 4" O.C. WITHIN 4'-0" OF RIDGES, HIPs AND EAVES.
- PARALLAM COLUMNS SHALL PROVIDE A MINIMUM MODULUS OF ELASTICITY (E) OF 1.8x10⁶ PSI, COMPRESSION PARALLEL TO GRAIN (F_u) OF 2,500 PSI AND FLEXURAL STRESS (F_b) OF 2,400 PSI FOR COLUMN SIZES UP TO 7". FOR COLUMN SIZES GREATER THAN 7", E SHALL BE 2.0x10⁶ PSI, F_b SHALL BE 2,900 PSI AND F_b 2,800 PSI.

WOOD FLOOR JOIST/BREAM/HEADER NOTES

- ALL JOIST ACCESSORIES ARE BY SIMPSON AND SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS TO DEVELOP ITS MAXIMUM CAPACITY. U.N.O. HOWEVER, CONTRACTOR SHALL BE CAREFUL NOT TO UTILIZE NAILS/SCREWS INTO THE JOIST LARGER THAN SPECIFIED BY JOIST MANUFACTURER.
- SUBFLOORING SHALL BE GLED AND NAILED TO JOISTS PER MANUFACTURER'S RECOMMENDATIONS, U.N.O.
- PENETRATION OF JOIST WEBBING SHALL ONLY BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. NO HOLES SHALL BE ALLOWED OVER SUPPORTS. SUBMIT HOLE PENETRATION DETAILS/SKETCHES FOR REVIEW.
- MICROLAM BEAMS (MLB) & LVL BEAMS SHALL HAVE A MINIMUM BENDING STRESS (F_b) OF 2,900 PSI AND MODULUS OF ELASTICITY (E) OF 2.0x10⁶ PSI & GLULAM BEAMS SHALL HAVE F_b=2,400 PSI & E OF 1.8x10⁶ PSI.
- ALL HEADERS SHALL BE A MIN. OF (2) 2x12 W/ FLITCH PLATES, U.N.O. UNLESS NOTED OTHERWISE.
- PROVIDE (2) 2x10 LEDGER W/ (4) SIMPSON SDWS22600DB INTO WOOD FRAMED WALLS @ 16" O.C. OR 5/8" DIA. ANCHOR BOLT OR EXPANSION ANCHOR @ 16" O.C. MAX. W/ 4" MIN. EMBEDMENT W/ NUTS AND WASHERS THROUGH (2) 2" x 10" P.T. LEDGER INTO CONC., U.N.O.
- MAXIMUM DEFLECTION OF FLOORS SHALL BE LIMITED TO L/240 UNDER TOTAL DEAD PLUS LIVE LOADS AND L/360 FOR LIVE LOADS.

ELECTRICAL NOTES

- ALL WIRING AND GROUNDING SHALL BE COPPER.
- ALL ELECTRICAL, MECHANICAL AND H.V.A.C. SYSTEMS SHALL BE INSTALLED COMPLETE WITH ALL COMPONENTS.
- ALL SERVICE EQUIPMENT SHALL BE APPROVED BY POWER COMPANY.
- CONTRACTOR SHALL OBTAIN ALL INSPECTIONS REQUIRED.
- PROVIDE APPROVED BOXES, PLATES, PULL WIRES AND ESCUTCHEONS FOR TELEPHONE OUTLETS. FIELD VERIFY LOCATIONS WITH OWNER.
- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH LATEST EDITION OF NATIONAL ELECTRIC CODE AS AMENDED BY LOCAL ORDINANCES AND AUTHORITIES HAVING JURISDICTION.
- ELECTRICAL, PLUMBING AND H.V.A.C. CONTRACTORS SHALL PROVIDE CATALOGUE CUTS AND SPECS FOR APPROVAL.
- ALL EQUIPMENT SHALL BE SIZED FOR PROPER AMPERAGE AND INTERRUPTION RATING.
- SMOKE DETECTORS SHALL BE PHOTO-ELECTRIC TYPE, 120 VOLT, COMPLYING WITH NFPA 72, WIRED, SUPPLIED AND INSTALLED BY CONTRACTOR. DETECTOR SHALL BE WIRED TO AC ELECTRICAL POWER SOURCE AND EQUIPPED WITH A MONITORED BATTERY BACKUP.
- ALL UTILITY SERVICES SHALL BE EXTENDED BY CONTRACTOR. ALL UTILITY HOOK-UP AND IMPACT FEES SHALL BE PROVIDED IN CONTRACTOR'S BASE BID.
- ALL WATER HEATERS SHALL HAVE PVC DRAIN BASIN UNDERNEATH WITH DRAIN TO EXTERIOR AND BLOW OFF VALVES ROUTED TO EXTERIOR.
- ALL WATER HEATERS SHALL BE ON A TIME CLOCK.
- ALL FINAL ELECTRICAL CONNECTIONS SHALL BE MADE BY A STATE OF NORTH CAROLINA LICENSED ELECTRICIAN. ALL EXISTING CIRCUITS TO PANELS TO BE RELOCATED OR REPLACED SHALL BE RECONNECTED BY ELECTRICAL CONTRACTOR AT NEW PANEL LOCATION CAPABLE OF SUPPORTING ANY NEW/ADDITIONAL LOADS.
- ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL A BONDED ELECTRODE IN ALL NEW CONCRETE FOUNDATIONS. ELECTRODE SHALL BE BONDED WITH ALL OTHER BUILDING ELECTRODES TO FORM A COMPLETE GROUNDING ELECTRODE SYSTEM.
- ALL BEDROOM RECEPTABLES TO BE PROTECTED BY ARC FAULT INTERCEPTORS. ADDITIONALLY, PROVIDE WF/GFI OUTLETS ADJACENT TO EACH ENTRY DOOR.

OPENING PROTECTION NOTES

- UNLESS NOTED OTHERWISE (U.N.O.), PROVIDE 1/2" THICK 5/8, EXP-1, STRUC.-1, SINGLE SHEET OF PLYWOOD OVER THE EXTERIOR SIDE OF ALL WINDOW OPENINGS. INSTALL PLYWOOD PANEL WITH #8x2-1/2" WOOD SCREWS AT 8" O.C. FOR WOOD FRAMING ATTACHMENT OR PROVIDE VIBRATION RESISTANT ANCHORS W/ A MINIMUM WITHDRAWAL CAPACITY OF 490# (W/ 3" MIN. EDGE DISTANCE) FOR MASONRY ATTACHMENT.
- U.N.O., ALL SECOND STORY WINDOWS, OR HIGHER, SHALL BE MADE OF IMPACT RESISTANT GLASS.
- U.N.O., GARAGE DOORS AND EXTERIOR DOORS SHALL BE DESIGNED TO WITHSTAND 155 MPH (V_u) WIND LOADS PER CODE.
- U.N.O., WINDOWS/DOORS SHALL BE DESIGNED TO WITHSTAND THE PRESSURES LISTED ON THE PLANS AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

MASONRY

- DESIGN AND CONSTRUCTION SHALL CONFORM TO BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530/ASCE 5).
- MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF MASONRY (F_m) SHALL BE 1,500 PSI, ASTM C-90. PROVIDE SHOP DRAWINGS FOR VERIFICATION.
- MORTAR FOR MASONRY SHALL BE TYPE S OR M.
- FOR LOAD BEARING WALLS, ALL BED JOINTS ARE TO COVER 100% OF THE MASONRY SURFACES AND ALL HEAD JOINTS ARE TO COVER 100% OF THE PROJECTED AREA OF THE FACE SHELLS.
- MINIMUM HORIZONTAL REINFORCING SHALL BE 3 GAGE TRUSS TYPE JOINT REINFORCING @ 16". USE HOT DIP GALVANIZED FOR ALL EXTERIOR WALLS.
- MINIMUM VERTICAL REINFORCING SHALL BE 1-#5 @ 48" OC, U.N.O.
- FILL ALL CELLS AS REQUIRED WITH 3000 PSI GROUT. SLUMP SHALL BE 8 TO 11 INCHES. SUBMIT DESIGN MIX FOR APPROVAL.
- PROVIDE ADDITIONAL VERTICAL REINFORCING BAR AT EVERY CORNER, INTERSECTION AND OPENING EDGES (U.N.O.).

STRUCTURAL STEEL

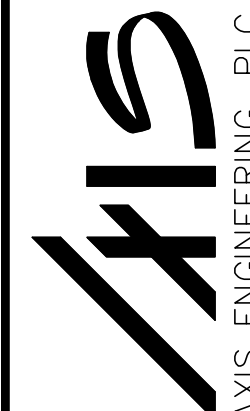
- ALL STRUCTURAL STEEL WORK SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST A.I.S.C. SPECIFICATIONS.
- ALL STRUCTURAL STEEL SHALL BE NEW, CLEAN, AND STRAIGHT, AND SHALL CONFORM TO ASTM SPECIFICATIONS A36, Fy=36 KSI, EXCEPT AS NOTED. ALL STEEL TUBES SHALL CONFORM TO ASTM A53, GRADE "B", Fy=46 KSI. PLATES AND OTHER SHAPES SHALL CONFORM TO ASTM A36, Fy=36 KSI. REBAR SHALL CONFORM TO ASTM A615, Fy=60 KSI.
- ALL HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM SPECIFICATION A325 AND SHALL BE PROVIDED WITH HARDENED WASHERS UNDER THE TURNED ELEMENT (NUT OR BOLT HEAD).
- INSTALLATION AND TIGHTENING OF ALL HIGH STRENGTH BOLTS SHALL CONFORM TO THE "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 BOLTS", TURN OF THE NUT METHOD.
- SHOP CONNECTIONS MAY BE WELDED OR HIGH STRENGTH BOLTED. ALL BOLTS SHALL BE 1/2" DIAMETER MIN. ALL CONNECTIONS SHALL CONFORM TO THE TYPICAL CONNECTION DETAILS SHOWN ON THE PLANS UNLESS SPECIFICALLY APPROVED BY THE ENGINEER.
- ALL FIELD CONNECTIONS SHALL BE BOLTED WITH HIGH STRENGTH BOLTS, SLIP-CRITICAL (FRICTION) TYPE.
- ALL WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY CODES FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION.
- BURNING OF HOLES, CUTS, ETC. IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED, EXCEPT WITH THE SPECIFIC APPROVAL OF THE ENGINEER.
- ALL STEEL MEMBERS EXPOSED TO WEATHER (SUCH AS LINTELS, DOOR JAMBS, ETC.) SHALL BE GALVANIZED.
- ANY STEEL MEMBERS REQUIRED BY THE ELECTRICAL OR MECHANICAL TRADES FOR THE SUPPORT OF THEIR EQUIPMENT, WHICH ARE NOT SHOWN ON ARCHITECTURAL OR STRUCTURAL DRAWINGS, SHALL BE PROVIDED BY THE TRADE REQUIRING SUCH SUPPORT.
- ALL LIGHT GAGE METAL FRAMING SHALL CONFORM TO ASTM A-446 GRADE C (MIN. YIELD OF 33 KSI) WITH HOT DIPPED GALVANIZED COATING CONFORMING TO ASTM A525 (CLASS 690). ALL GALVANIZED STEEL RUNNERS SHALL BE FORMED FROM MATERIAL MEETING ASTM A-446 GRADE A (MIN. YIELD OF 33 KSI). UNLESS NOTED OTHERWISE, PROVIDE #10 TEKs SCREWS FOR CONNECTION OF METAL FRAMING. LIGHT GAGE FRAMING SHALL BE BY DIETRICH METAL FRAMING, OR UNIMAST INCORPORATED OR APPROVED EQUAL.

SHOP DRAWINGS

- SHOP DRAWINGS OF PRE-ENGINEERED ITEMS SHALL BE SUBMITTED TO ENGINEER OF RECORD FOR APPROVAL.
- ALL DIMENSIONAL COORDINATION SHALL BE DONE BY THE CONTRACTOR AND/OR HIS DETAILER.
- DETAILER SHALL CHECK ALL ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ALL ATTACHMENTS, CLIPS, OPENINGS, OR DUCT WORK AFFECTING STRUCTURAL MEMBERS. ALL ITEMS SHALL BE SHOWN ON SHOP DRAWINGS.
- SHOP DRAWINGS SHALL BE SUBMITTED TO ALLOW SUFFICIENT TIME FOR PROCESSING.
- ALL SHOP DRAWINGS SHALL BE SUBMITTED ON TRANSPARENCIES FOR DIRECT REPRODUCTION WITH TWO PRINTS ONLY. DISTRIBUTION AS PER CONTRACTING OFFICER INSTRUCTIONS.
- UNLESS OTHERWISE NOTED, SHOP DRAWINGS SHALL BE SUBMITTED PRIOR TO OR IN CONJUNCTION WITH DETAIL DRAWINGS. BUT IN NO CASE SHALL DETAIL DRAWINGS BE SUBMITTED PRIOR TO ERECTION PLANS.
- CONTRACTOR SHALL HAVE SHOP DRAWINGS WHICH HAVE BEEN SATISFACTORILY REVIEWED BY THE CONTRACTING OFFICER AND/OR ENGINEER AND CONFIRMED BY THE CONTRACTOR BEFORE PROCEEDING WITH ANY WORK. SUBMIT SHOP DRAWINGS FOR ALL REINFORCEMENT FOR REVIEW BY THE ENGINEER PRIOR TO FABRICATION AND PLACEMENT.
- SUBMIT SHOP DRAWINGS FOR WOOD FLOOR JOIST WEB PENETRATIONS OR SLAB PENETRATIONS FOR REVIEW PRIOR TO CUTTING.
- SUBMIT SHOP DRAWINGS FOR APPROVAL OF CONCRETE MASONRY UNIT COMPRESSIVE STRENGTH (F_m).
- PROVIDE SHOP DRAWINGS FOR ALL PRE-FABRICATED OR PRE-MANUFAC. ITEMS (I.E. HOLLOW CORE SLABS, BALCONIES, SPIRAL STAIRS, HANDRAILS, ETC.) FOR REVIEW AND APPROVAL OF ATTACHMENT TO THE STRUCTURE.
- ALL SHOP DRAWINGS FROM DELEGATED ENGINEERS SHALL CONFORM TO NCC REGULATIONS AND SHALL INCLUDE, BUT NOT BE LIMITED TO, CALCULATIONS, DETAILS, ACCESSORIES, FABRICATION AND ERECTION DRAWINGS OR INSTRUCTIONS OR REACTIONS GENERATED BY SUCH COMPONENTS OR SYSTEMS WHICH MUST BE CARRIED BY THE OTHER PARTS OF THE STRUCTURE.



CERT. NO. P-1320
1532 US HWY 41 BYP S #150
VENICE FLORIDA 34293
888-513-0466
EMAIL: axisengr@gmail.com

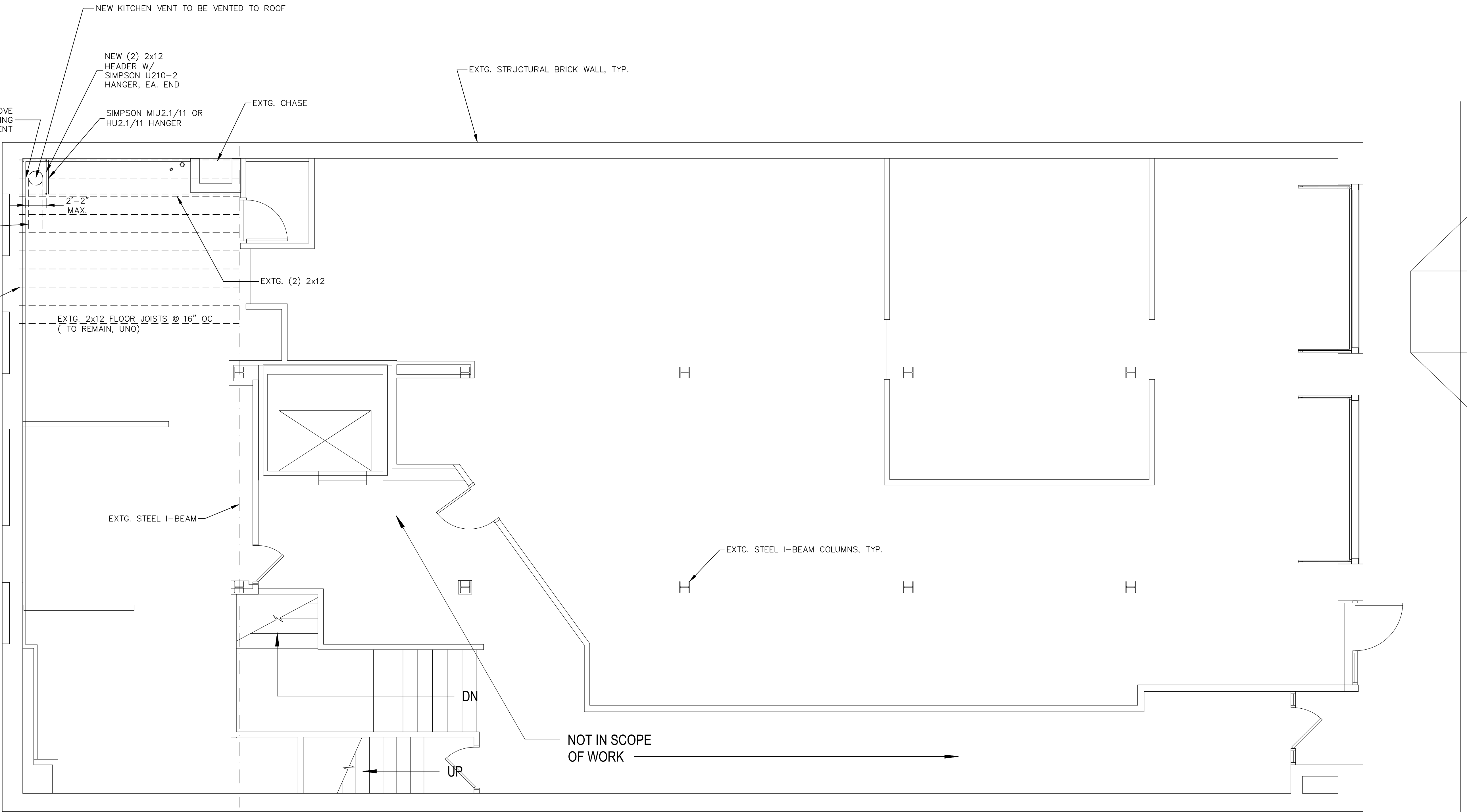


**GENERAL
NOTES &
TYPICAL
DETAILS**

**MELTING POT
SOCIAL CLUB
VENTING PLAN**

DESIGNED BY:	DATE:	DRAWN BY:	DATE:	CHECKED BY:	DATE:	VERTICAL SCALE:	HORIZONTAL SCALE:	AS NOTED
BP	8/3/23	BP	8/3/23	BP	8/3/23	AS NOTED	AS NOTED	AS NOTED

PROJECT NO.	74 PATTON AVE PLAN	SHEET NO.	51 OF 3	DATE	REVISIONS
5		4			
4		3			
3		2			
2		1			
1					



PARTIAL GROUND & 2ND FLOOR FRAMING PLANS
SCALE: 1/4" = 1'-0"

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PARTIAL FLOOR FRAMING PLANS

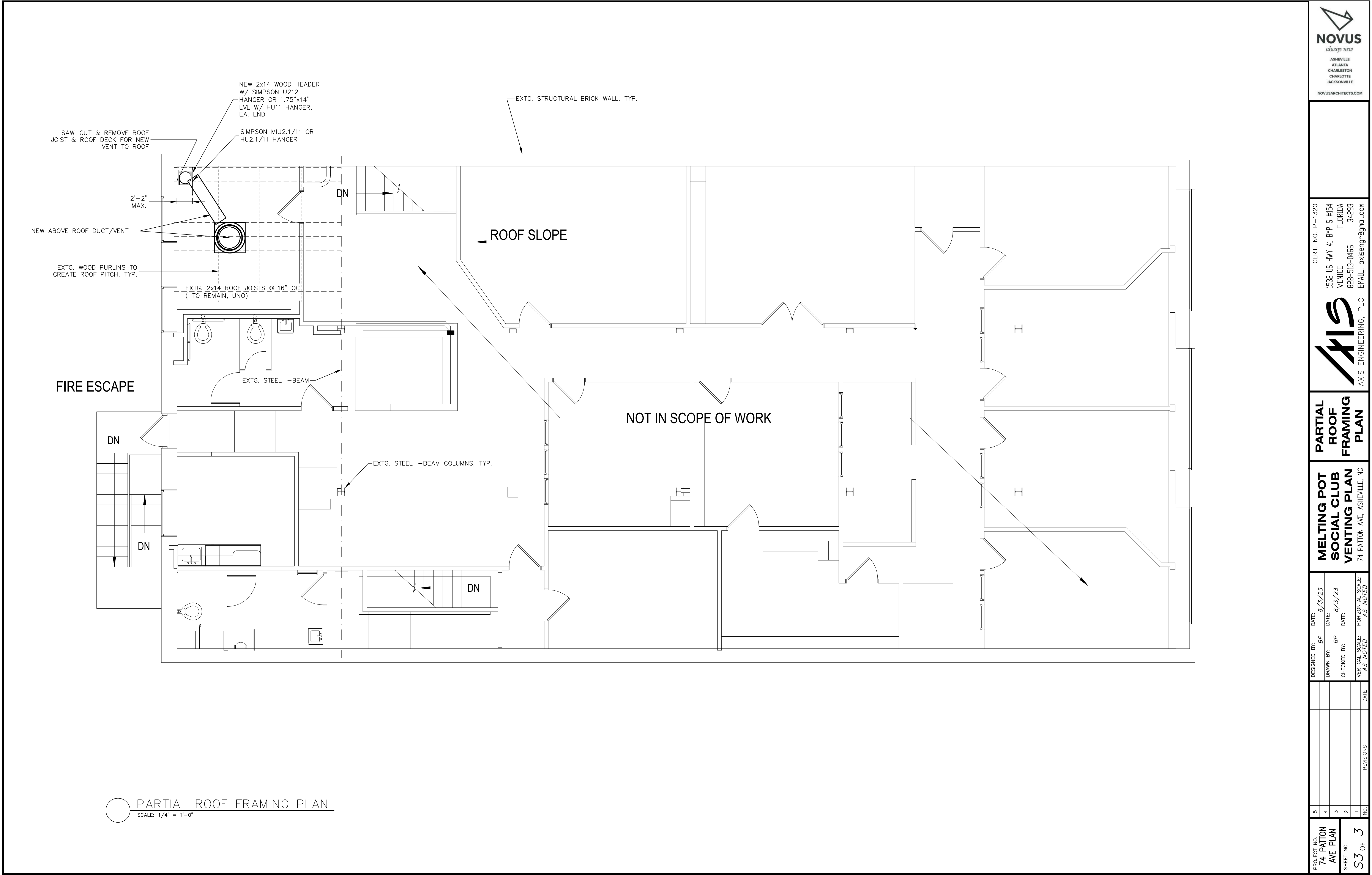
MELTING POT SOCIAL CLUB VENDING PLAN
74 PATTON AVE, ASHEVILLE, NC

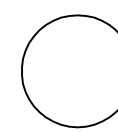
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BP	8/3/23	BP	8/3/23	BP	8/3/23	AS NOTED	AS NOTED


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PROJECT NO.
74 PATTON AVE PLAN

SHEET NO.
S2 OF 3

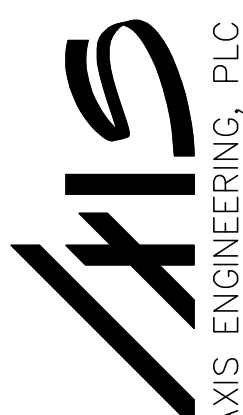


 PARTIAL ROOF FRAMING PLAN
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**PARTIAL
ROOF
FRAMING
PLAN**

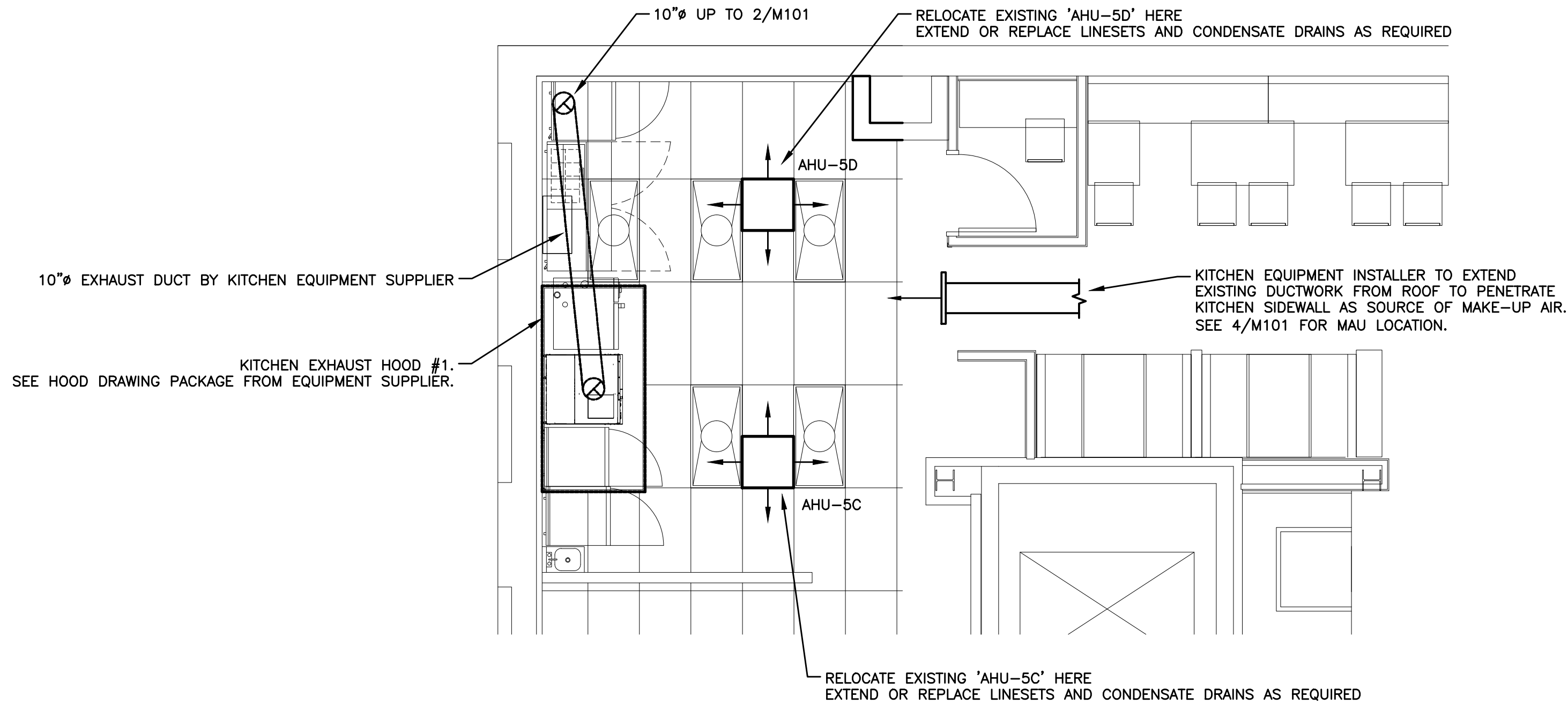
**MELTING POT
SOCIAL CLUB
VENDING PLAN**
74 PATTON AVE, ASHEVILLE, NC

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VERTICAL SCALE:	AS NOTED	HORIZONTAL SCALE:	AS NOTED

PROJECT NO.	74 PATTON AVE PLAN
SHEET NO.	S3 OF 3

NO.	REVISIONS	DATE
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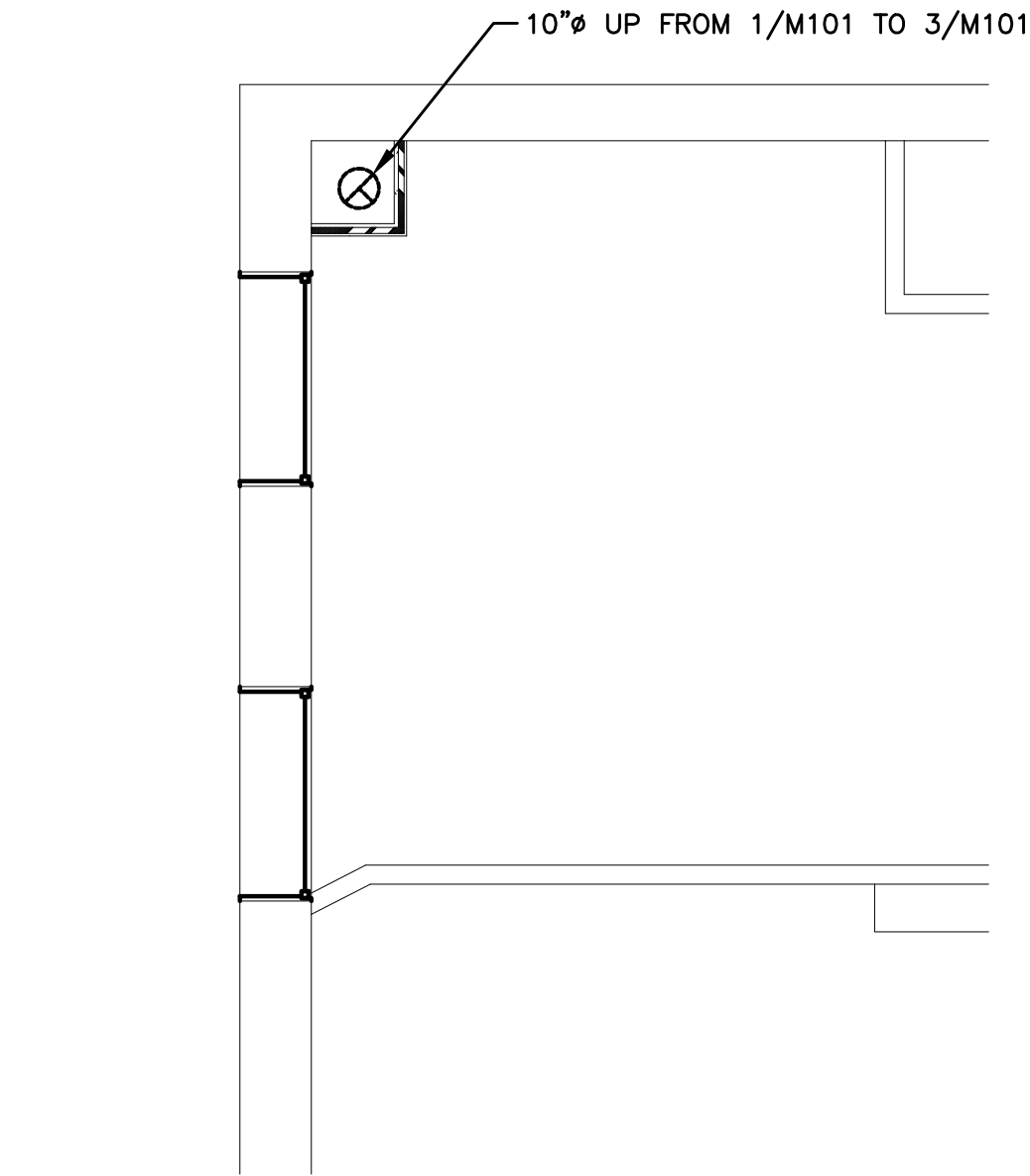
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1
M101

ENLARGED PARTIAL
PATTON AVE LEVEL PLAN - HVAC

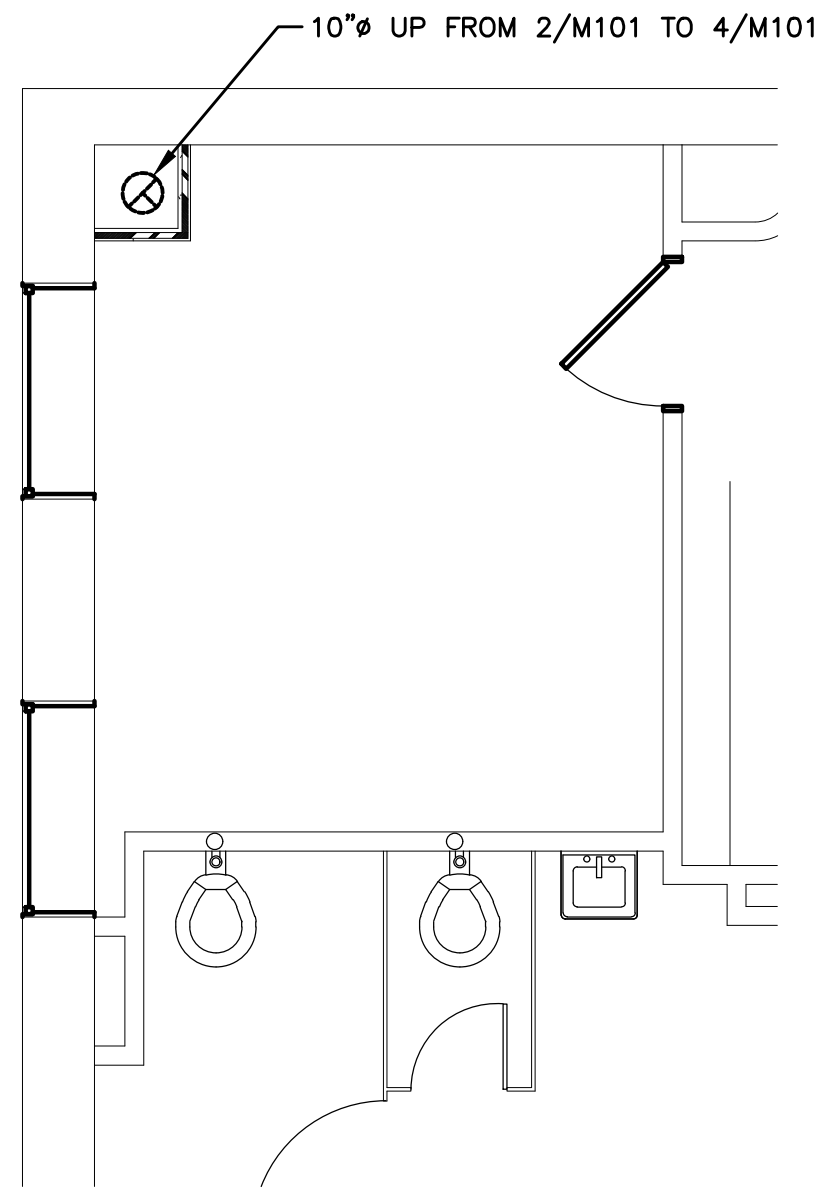
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2
M101

ENLARGED PARTIAL
MIDDLE LEVEL PLAN - HVAC

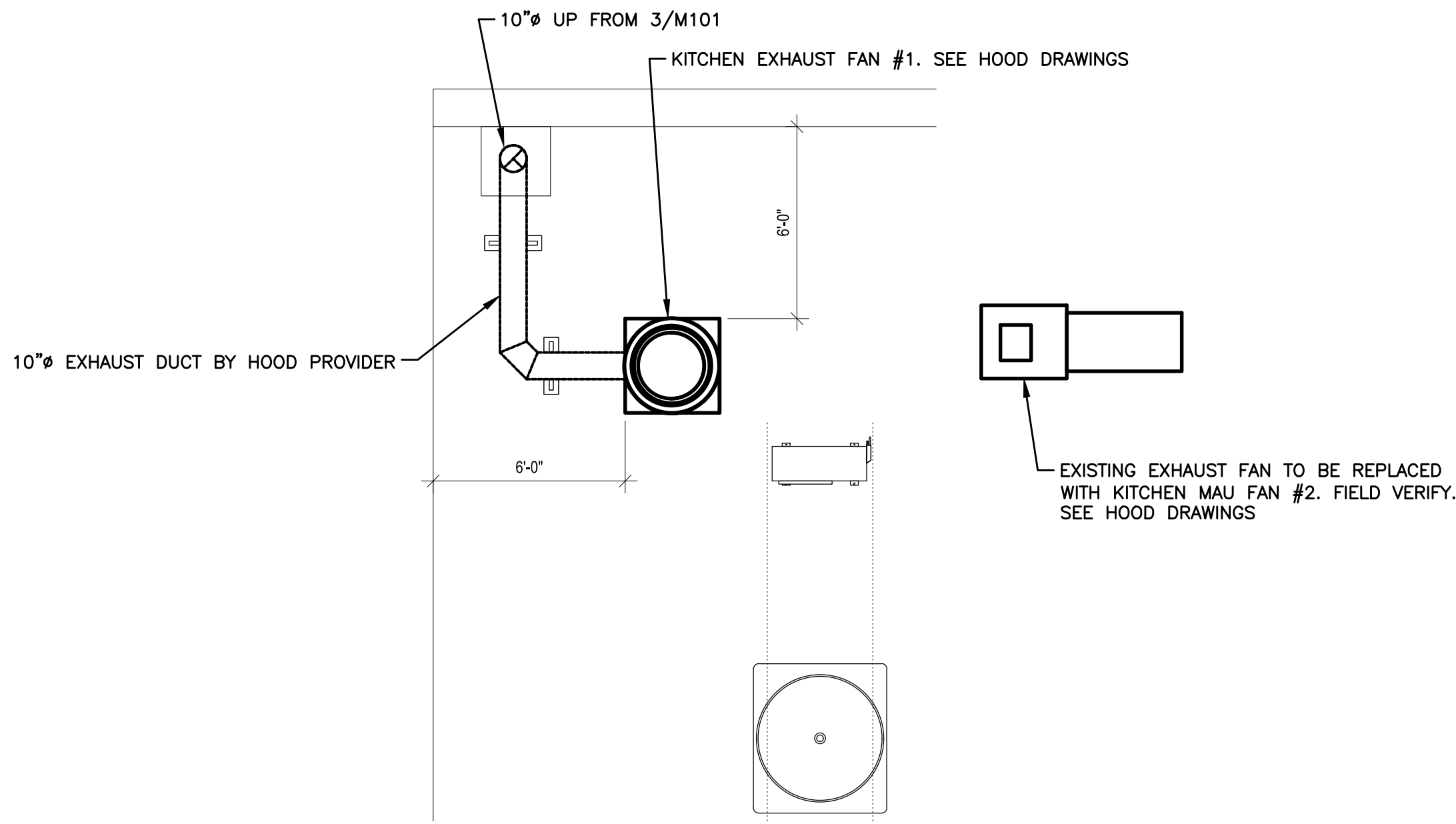
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M101

ENLARGED PARTIAL
UPPER LEVEL PLAN - HVAC

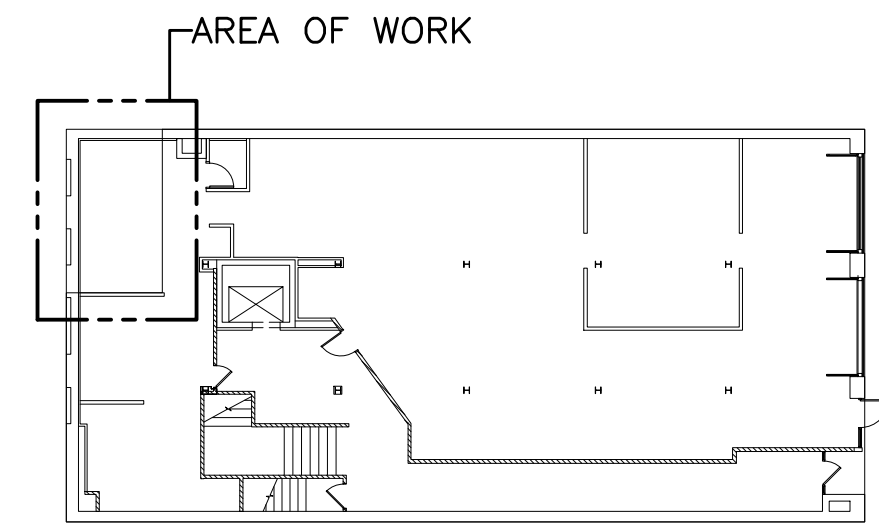
SCALE: 1/4" = 1'-0"



4
M101

ENLARGED PARTIAL
ROOF PLAN - HVAC

SCALE: 1/4" = 1'-0"



KEY PLAN


SCALE: NONE



MELTING POT - HOOD AND DUCT CHASE

74 PATTON AVENUE
ASHEVILLE, NORTH CAROLINA 28801

ENLARGED PARTIAL FLOOR PLANS - HVAC

REVISIONS: 		
No.	Description	Date

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DATE:	AUGUST 03, 2023
NOVUS JOB NUMBER	2020-3104.00

SHEET NUMBER
M101

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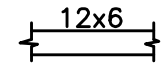
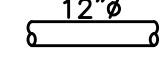
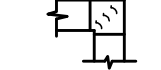
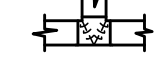


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H
G
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D
C
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A

1 2 3 4 5 6 7 8 9 10

SIMS PROJECT #2347

1 2 3 4 5 6 7 8 9 10

HVAC LEGEND	
MARK	DESCRIPTION
	RECTANGULAR DUCTWORK, GALVANIZED; "12" DENOTES WIDTH, "6" DENOTES DEPTH. DIMENSIONS SHOWN ARE FREE AND CLEAR.
	DUCTWORK, ROUND, SUPPLIED BY KITCHEN HOOD INSTALLER
	DUCT TEE, BEND, ELBOW, RADIUS NOT LESS 1.5 C/L WIDTH OR PROVIDE RECTANGULAR ELBOWS WITH AIR FOIL TURNING VANES.
	SPLITTER DAMPER
	EXHAUST FAN, PROVIDED BY KITCHEN EQUIPMENT PROVIDER SEE KITCHEN HOOD DRAWING PACKAGE
	SIDE TAKE OFF WITH VOLUME CONTROL DAMPER TYPICAL ALL TAKE OFFS.



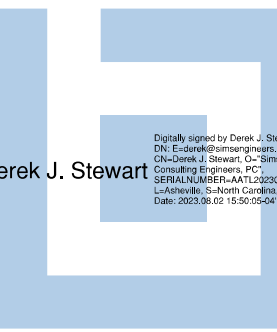
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Derek J. Stewart


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MELTING POT - HOOD AND DUCT CHASE

74 PATTON AVENUE
ASHEVILLE, NORTH CAROLINA 28801

HVAC SCHEDULES & DETAILS

REVISIONS: 		
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DATE: AUGUST 03, 2023

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2020-3104.00

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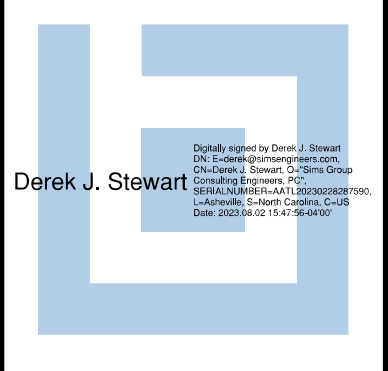
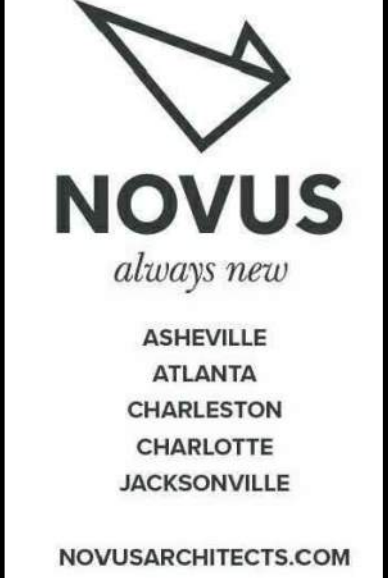
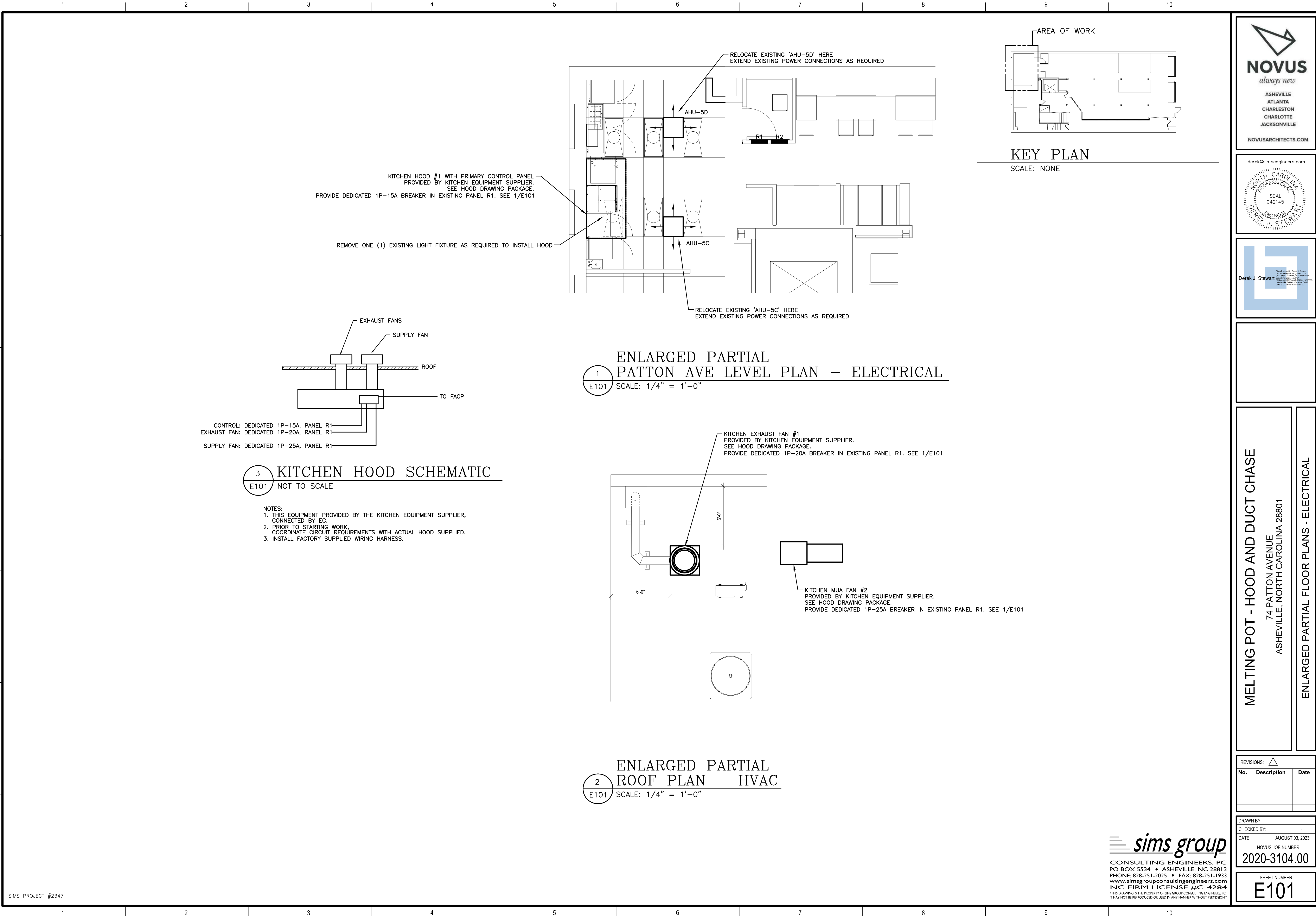


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MELTING POT - HOOD AND DUCT CHASE
74 PATTON AVENUE
ASHEVILLE, NORTH CAROLINA 28801
ENLARGED PARTIAL FLOOR PLANS - ELECTRICAL

REVISIONS:		
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MELTING POT - HOOD AND DUCT CHASE

74 PATTON AVENUE
ASHEVILLE, NORTH CAROLINA 28801

ELECTRICAL SCHEDULES & DETAILS

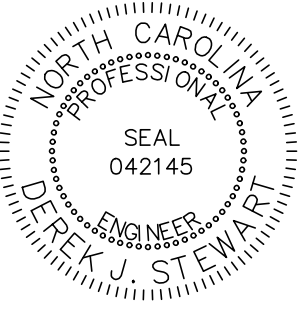


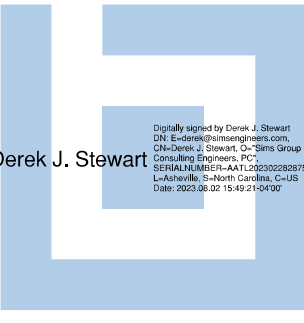
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Derek J. Stewart
Professional Engineer
State of North Carolina
License No. 042145
Exp. 12/31/2025

PANEL SCHEDULE												
PANEL DESIGNATION: R1			LOCATION: KITCHEN OFFICE									
VOLTAGE RATING: 208Y/120		BUS RATING: 100A AMPS		MCB (100A)		PHASE: 3		NO. OF WIRES: 4		NEMA 1 ENCLOSURE		
FLUSH MOUNT												
TYPE: PRL1a		INTERRUPTING RATING: 22,000 AMPS RMS FULLY RATED		SPECIAL FEATURES:				OTHER REQTS: 1. COPPER BUS. 2. BOLT-ON C/B.				
CIRC NO	LOAD			CB	PHASE A VA	PHASE B VA	PHASE C VA	CB	LOAD			CIRC NO
1	LIGHTING, KITCHEN			20A	600 400			15A	P.O.S. TERMINAL (76)			2
3	LIGHTING EXTERIOR			20A		600 400		15A	P.O.S. TERMINAL (82)			4
5	LIGHTING			20A			600 400	15A	P.O.S. TERMINAL (82)			6
7	LIGHTING			20A	600 400			15A	P.O.S. TERMINAL (82)			8
9	LIGHTING			20A		600 400		15A	ORDER TOUCHSCREEN (77)			10
11	LIGHTING			20A			600 400	15A	ORDER TOUCHSCREEN (77)			12
13	RECEPTACLE, TT8			20A	400 400			20A	RECEPTACLES, DINING AREA			14
15	RECEPTACLE, TT8			20A		400 400		20A	RECEPTACLES, DINING AREA			16
17	HARDWIRED POWER STRIP IN OFFICE			20A			800 400	20A	RECEPTACLES, DINING AREA			18
19	TV'S IN BAR			20A	500 400			20A	RECEPTACLES, DINING AREA			20
21	TV ABOVE POS			20A		--		20A	RECEPTACLE FOR DJ EQUIPMENT			22
23	GARAGE DOOR			20A			--	20A	EXTERIOR SIGNAGE			24
25	GARAGE DOOR			20A	--			20A	SPARE			26
27	SPARE			20A	--	--		20A	SPARE			28
29	PREPARED SPACE			--			--	--	PREPARED SPACE			30
31	PREPARED SPACE			--	--			--	PREPARED SPACE			32
33	PREPARED SPACE			--		--		--	PREPARED SPACE			34
35	PREPARED SPACE			--			--	--	PREPARED SPACE			36
37	HOOD #1 CONTROLS			15A	--			--	PREPARED SPACE			38
39	HOOD EF #1			20A		--		--	PREPARED SPACE			40
41	HOOD MUA #2			25A			--	--	PREPARED SPACE			42
					2800	2400	2400	TOTAL CONNECTED LOAD		7,600 VA	22 AMP	

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SIMS PROJECT #2347

SECTION 16010

BASIC ELECTRICAL REQUIREMENTS

1. PART 1 GENERAL

1.1 SECTION INCLUDES

A. Basic Electrical Requirements specifically applicable to Division 16 in addition to Division 1 – General Requirements.

1.2 SCOPE OF WORK

- A. Provide electric meter, electric service, power distribution equipment, conductors, luminaires, wiring devices, fire alarm system, and other required materials and labor to produce a complete and operating electrical system. Coordinate service with utility and advise owner of service application procedure. Provide conductors and conduit for all equipment in project. Provide conduit with pull cords for HVAC control circuits.
- B. Obtain all permits, pay all fees, and request inspection from authority having jurisdiction.
- C. All work and materials shall be guaranteed for one year from date of substantial completion.
- D. Provide temporary power during construction.

1.3 WORK SEQUENCE

- A. Coordinate construction and utility outages (if any) with Owner, all other trades, and utility companies. After-hours work may be required to interrupt service.
- B. Notify Engineer of discrepancies in the Contract Documents.
- C. E-Mail questions or comments to derek@simsengineers.com or fax (828-251-1933) in lieu of telephone calls.

1.4 REGULATORY REQUIREMENTS

- A. Conform to applicable State and Local Building Codes.
- B. Fire Alarm: NFPA 72.
- C. Electrical: NFPA 70.
- D. Life Safety Code, NFPA 101.
- E. The Contractor shall install all materials in accordance with State and Local Building Code. Any work that does not comply shall be made to comply at the contractor's expense.
- F. All equipment shall be UL or ETL listed for purpose specified.

1.5 PROJECT/SITE CONDITIONS

- A. Install Work in locations shown on Drawings, unless prevented by Project conditions.
- B. Prepare record drawings showing proposed rearrangement of Work to meet Project conditions, including changes to Work specified in other Sections. Obtain permission of Architect/Engineer before proceeding. Submit all changes on Record Documents as a requirement of Project Closeout.
- C. Refer to Architectural Drawings for dimensions, locations, cabinets, etc. Do not scale Electrical Drawings.
- D. Conceal all materials except where the Architect grants specific permission to do otherwise.
- E. Arrange electrical work in a neat, well organized manner. Conduit shall run parallel with primary lines of the building construction.
- F. Locate operating and control equipment with adequate access for operation and maintenance.
- G. Give right-of-way to piping which must slope for drainage.
- H. Advise other trades of openings required in their work for the subsequent move-in of large electrical equipment.
- I. Coordination Drawings: For locations where several elements of electrical (or combined mechanical and electrical) work must be sequenced and positioned with precision in order to fit into the available space, prepare coordination drawings showing the actual dimensions required for the installation.

1.6 SUBSTITUTIONS:

The purpose of specifying equipment by catalog number is to establish quality standards, not necessarily to limit submittals. Substitutions may be accepted if approved as equivalent. Contact engineer prior to bid with any questions. If substitutes are not submitted within 14 days after the bid is accepted, then the equipment shall be provided as specified. Contractor submitting substitutions shall be responsible for any additional cost resulting from the substitution.

1.7 EXCAVATING FOR ELECTRICAL WORK

- A. General: The work of this article is defined to include whatever excavating and backfilling is necessary to install the electrical work. The contractor shall coordinate the work with other excavating and backfilling in the same area, including dewatering, floor protection provisions, and other temporary facilities. Coordinate the work with other work in the same area, including other underground services, landscape development, paving, and floor slabs on grade. Coordinate with weather conditions and provide temporary facilities needed for protection and proper performance of excavating and backfilling.
- B. General Standards: Except as otherwise indicated, comply with the applicable provisions of the Division 2 sections, for plumbing work excavating and backfilling. Refer instances of uncertain applicability to the Engineer for resolution before proceeding.
- C. Rock Excavation shall be defined as the removal of a formation that cannot be excavated without systematic drilling and blasting or without the use of pneumatic tools. All rock excavation/removal shall be performed by the General Contractor. The Electrical subcontractor shall lay out his work and perform all normal excavation. If rock is encountered, it shall be removed by the General Contractor. The General Contractor shall be responsible for providing backfill material.
- D. Sequencing: Delay backfill and encasement of conduit until testing of conductors has been completed.

2. PART 2 GENERAL DESCRIPTION OF WORK

2.1 Coordinate work with other Trades.

2.2 General:

- A. Provide all luminaires, wiring devices, conductors, switches, disconnects, fuses, fire alarm system, and other required materials. Coordinate electrical requirements for equipment supplied by other trades prior to ordering electrical materials.
- B. Provide U.L. listed Fire-Stop penetrations through rated assemblies. See Architectural life safety plans to locate rated assemblies.
- C. Identify major equipment with engraved Lamacoid labels.
- D. Provide typed panelboard directories.
- E. Gang mount switches. Provide continuous switchplate.
- F. Electrical Contractor shall provide all penetrations and patching required to install electrical work.
- G. Support all luminaires, materials, and equipment from building structure.
- H. Install all materials and equipment in accordance with manufacturer's instructions.
- I. Telephone service shall meet the requirements of and be coordinated with Utility.
- J. Electrical service shall meet the requirements of and be coordinated with Utility.
- K. Panelboards shall have copper bus unless otherwise noted.
- L. Electrical circuits shall not share neutrals unless otherwise noted.

2.3 Design Requirements vs. Code Minimum Requirements.

- A. Some of the design requirements stated for this project exceed the minimum requirements of the NEC. These decisions are usually made in order to:
1. Increase reliability of the system.
 2. Increase service life of system components.
 3. Enhance system safety beyond the minimum requirements of the NEC.
- B. Design requirements that may exceed NEC minimum are most often associated with the following:
1. Insulation type.
 2. Conductor size.
 3. Conduit type.
 4. Conduit couplings.
 5. Size of equipment grounding conductor. See NEC section 250.4A5.

3. PART 3 CONDUCTORS & CONDUIT

3.1 Conductors:

- A. Unless otherwise noted on plans:
1. Conductors above grade shall be THWN-2 copper.
 2. Conductors underground or under slab shall be XHHW copper.
- B. All conductors shall be in conduit or other approved raceway.
- C. Provide EGC (equipment grounding conductor) with all circuits. Some EGCs are sized larger than the NEC minimum. This is done in order to reduce the probability of EGCs being damaged during ground faults.
- D. Conductors smaller than #8 AWG shall be solid.
- E. Approved manufacturers. (No other manufacturer's products are permitted.)
ENCORE WIRE
SOUTHWIRE
AFC
GENERAL CABLE
OKONITE
CERROWIRE
- F. Line-voltage conductors shall not be smaller than #12 AWG.
- G. Branch circuits longer than 75 feet shall be wired with conductors #10 AWG or larger.

3.2 Conduit and Raceway:

- A. Above grade: EMT with compression-type steel couplings and connectors.
- B. Below grade: Schedule 40 PVC with Schedule 80 PVC risers.
- C. Raceway Seal: Where a raceway enters a building or structure from an underground distribution system, it shall be sealed in accordance with NEC 300.5(G). Spare or unused raceways shall also be sealed. Sealant shall be American Polywater FST or equivalent.
- D. Conduit shall be trade size 3/4" minimum unless otherwise noted. Exceptions: control wiring, 120V receptacles, and switches may use trade size 1/2" if sized per NEC.
- E. Type MC Cable with copper conductors and green ground may be used for concealed branch circuits. Redhead bushings shall be provided at each termination.
- F. Support conduit from building structure with threaded rods and hangers, trapeze hangers, channel and clamps, or other approved method.

4. PART 4 DOCUMENTS AND SUBMITTALS

4.1 SUBMITTALS

- A. Submit under provisions of Contract Documents.
- B. Identify items with marks to match those shown on drawings.
- C. Architect shall approve all colors.
- D. All submittals shall have the Contractor's stamp with approval signature.
- E. Highlight deviations from specified materials.
- F. Product Data: 6 sets, including 3 sets for maintenance manuals. Data shall include the following:
Luminaires
Wiring Devices
Panelboards
Safety Switches
Surge Protective Devices (SPDs)
Fire Alarm System
- G. Test Reports (if required): 3 copies
- H. Warranties: 6 copies, including 3 for maintenance manuals.
- I. Maintenance Manuals: 3 complete sets in loose-leaf 3-ring binders, with rigid permanent vinyl covered back and front. Separators with index tabs shall be provided. One set shall have all sheets individually encased in clear, plastic document protectors.

4.2 CONTROL DATA: Provide control diagrams and wiring diagrams where applicable; include description of control systems, catalog data, and calibration instructions for all components. Provide name and address of Controls manufacturer and installer.

4.3 MAINTENANCE INSTRUCTION: Typewritten instructions for maintenance of the systems in itemized form and with time schedule shall be furnished. The instructions shall list each item of equipment requiring inspection, lubrication, or other service. The operating personnel shall be instructed regarding each maintenance procedure.

5. PART 5 ELECTRICAL WORK CLOSEOUT

5.1 General: Refer to the Division 1 sections for general closeout requirements. Maintain a daily log of operational data on electrical equipment and systems through the closeout period; record hours of operation, assigned personnel, fuel consumption, etc. Submit copy to Owner.

5.2 Record Drawings: Give special attention to the complete and accurate recording of underground circuits, and other concealed or non-accessible work. Record change orders where not shown accurately by contract documents. Submit to Architect/Engineer at end of project one set of reproducible sepias that show all changes in the electrical work.

5.3 Closeout Equipment/Systems Operations: Contractor shall demonstrate sustained, satisfactory performance of all equipment and systems in a test run of appropriate duration. The Owner's operating personnel shall be present. Adjust or correct equipment as required for proper performance. Clean equipment and luminaires.

5.4 Operating Instructions: Conduct a walk-through instruction seminar for the Owner's personnel. Explain the identification system, operation diagrams, emergency and alarm provisions, and sequencing requirements. Also explain requirements related to: seasonal provisions, security, safety, and efficiency.

5.5 Training: Contractor shall provide training on all major equipment, controls, etc, as part of the contract.

5.6 Turn-Over of Operations: At the time of substantial completion, turn over the prime responsibility for operation of the electrical equipment and systems to the Owner's operating personnel. However, until the time of final acceptance, provide one electrician, who is completely familiar with the work, to consult with and continue training the Owner's personnel.

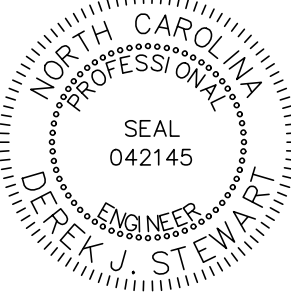
END OF SECTION



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ELECTRICAL SPECIFICATIONS

REVISIONS:

No.	Description	Date

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CHECKED BY: -
DATE: AUGUST 03, 2023

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CONTRACT DOCUMENTS - AUGUST 03, 2023