



PROJECT NARRATIVE:


This Project Scope also includes site engineering and landscape improvements that are submitted under a separate cover.

SYMBOL KEY:		
	DOOR SYMBOL	NUMBERED BY TYPE REFER TO SCHEDULE
	WINDOW SYMBOL	NUMBERED BY TYPE REFER TO SCHEDULE
	WALL TAG	WALL TYPE OR UL
	GRID LINE TARGET	A, B, C, ETC. IN ONE DIRECTION 1, 2, 3, ETC. IN THE OTHER
	ROOM TAG	ROOM NUMBER
	TITLE	DRAWING NUMBER SCALE
	ELEVATION REFERENCES	DIRECTION OF VIEW SHEET NUMBER
	SECTION REFERENCES	DIRECTION OF VIEW SHEET NUMBER
	DETAIL REFERENCES	DETAIL AREA SHEET NUMBER
	INTERIOR ELEVATIONS	VIEW NUMBER DIRECTION OF VIEW SHEET NUMBER
	LEVEL REFERENCE	Name Elevation
	ROOF SLOPE ARROW	SLOPE SLOPE DIRECTION
	ROOF SLOPE	SLOPE
	ACCESSORY TAG	LOCATION OF NOTE APPLICATION NOTE NUMBER
	NOTE TAG	LOCATION OF NOTE APPLICATION NOTE NUMBER
	LEVEL CHANGE	CHANGE IN LEVEL
	REVISION MARK	REV. LOCATION REV. No.

- 1) Deferal of any submittal items shall have the prior approval of the Building Official having jurisdiction.
- 2) Submittal documents for deferred submittal items shall be submitted to the Entity designated below for the project with the required information. These will be forwarded by the Owner to the Building Official having jurisdiction with a notation indicating that the deferred submittal documents have been reviewed and that they have been found to be in general compliance with the design of the project.
- 3) The deferred submittal items shall not be installed until their design and submittal documents have been approved.

LIST INCLUDING BUT NOT LIMITED TO:

- A) BUILDING RAILINGS & GUARDRAILS
REVIEW BY ARCHITECT
- B) FIRE ALARM SYSTEM
REVIEW BY ARCHITECT
- C) AUTOMATIC FIRE SUPPRESSION (SPRINKLER)
SYSTEM REVIEW BY ARCHITECT
- D) PRE-ENGINEERED (WOOD) FLOOR & ROOF TRUSS
SYSTEM REVIEW BY ARCHITECT
- E) BUILDING IDENTIFICATION AND WAYFINDING
SIGNAGE REVIEW BY OWNER
- F) SITE FENCING
REVIEW BY LANDSCAPE ARCHITECT

OWNER/DEVELOPER	ARCHITECT	CIVIL ENGINEER	STRUCTURAL	MECHANICAL / ELECTRICAL / PLUMBING	LANDSCAPE ARCHITECT	INTERIOR DESIGN	CONTRACTOR
ROHDIE MADISON, LLC	FUGLEBERG KOCH PLLC	MULLINS, LLC	ASE ENGINEERING SERVICES, INC.	JOSEPH, LAWRENCE & CO	TBD	ALYSSA ROHDIE	ESSIAN CONSTRUCTION & DEVELOPMENT
							
ATTN: RON LEICHTNER 82 VANDERBILT NEW YORK, NEW YORK 10017 PHONE (212) 682-5784	ATTN: MICHAEL GOVE, AIA 2555 TEMPLE TRAIL WINTER PARK, FLORIDA 32789 PHONE (407) 629-0595 FAX (407) 628-1057	2101 WEST CLINTON AVE, SUITE 503, HUNTSVILLE, AL PHONE (256) 690-5312	10244 EAST COLONIAL DRIVE, SUITE 202 ORLANDO, FLORIDA 32817 PHONE (407) 677-5565 FAX (407) 730-2999	1180 HARWOOD AVE. SUITE 3000 ALTAMONTE SPRINGS, FLORIDA 32714 PHONE (321) 972-4466	ATTN: NAME ADDRESS CITY, FL 3xxx (407) 123-4567	52 VANDERBILT NEW YORK, NEW YORK 10017 PHONE (212) 682-5784	ATTN: RICHARD SHASSIAN 999 DOUGLAS AVE, STE 1115 ALTAMONTE SPRINGS, FLORIDA 32714 PHONE (407) 245-8920

ISSUE HISTORY		
No.	Date	Description
1	04/15/2022	PERMIT SUBMITTAL

[illegible]

FUGLEBERG KOCH

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www.fuglebergkoch.com AA26002103

MICHAEL GOVE
8234[illegible]

THE ROBERT
MADISON
MADISON, ALABAMA

Drawn:	M
Checked:	.
Approval:	M
Date:	04/15/20
Project #:	57

COVER SHEET

A0.01a

1	2	3	4	5	6	7	8	9	10	11	12
A											
B											
C											
D											
E											
F											
G											
H											
J											
K											
1	2	3	4	5	6	7	8	9	10	11	12

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A0.13	LIFE SAFETY PLANS - BUILDING TYPE B		04/15/2022
A0.20	LIFE SAFETY PLANS - UNIT PLANS		04/15/2022
A0.21	LIFE SAFETY PLANS - UNIT PLANS		04/15/2022
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A0.31	UL REFERENCE DIRECTORY ROOF SYSTEMS		04/15/2022
A0.32	UL REFERENCE DIRECTORY WALL SYSTEMS		04/15/2022
A0.33	UL REFERENCE DIRECTORY FLOOR SYSTEM		04/15/2022
A0.34	UL REFERENCE DIRECTORY FLOOR SYSTEMS		04/15/2022
A0.35	UL REFERENCE DIRECTORY ROOF SYSTEMS		04/15/2022
A0.36	UL REFERENCE DIRECTORY FLOOR PENETRATIONS		04/15/2022
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C2.2	SITE PLAN		
C2.3	KEYNOTE PLAN		
C2.4	OVERALL SITE PLAN		
C3	WATER INFRASTRUCTURE PLAN		
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GRAND TOTAL : 136			

ISSUE HISTORY		
No.	Date	Description
1	04/15/2022	PERMIT SUBMITTAL
REVISION HISTORY		
No.	Date	Description



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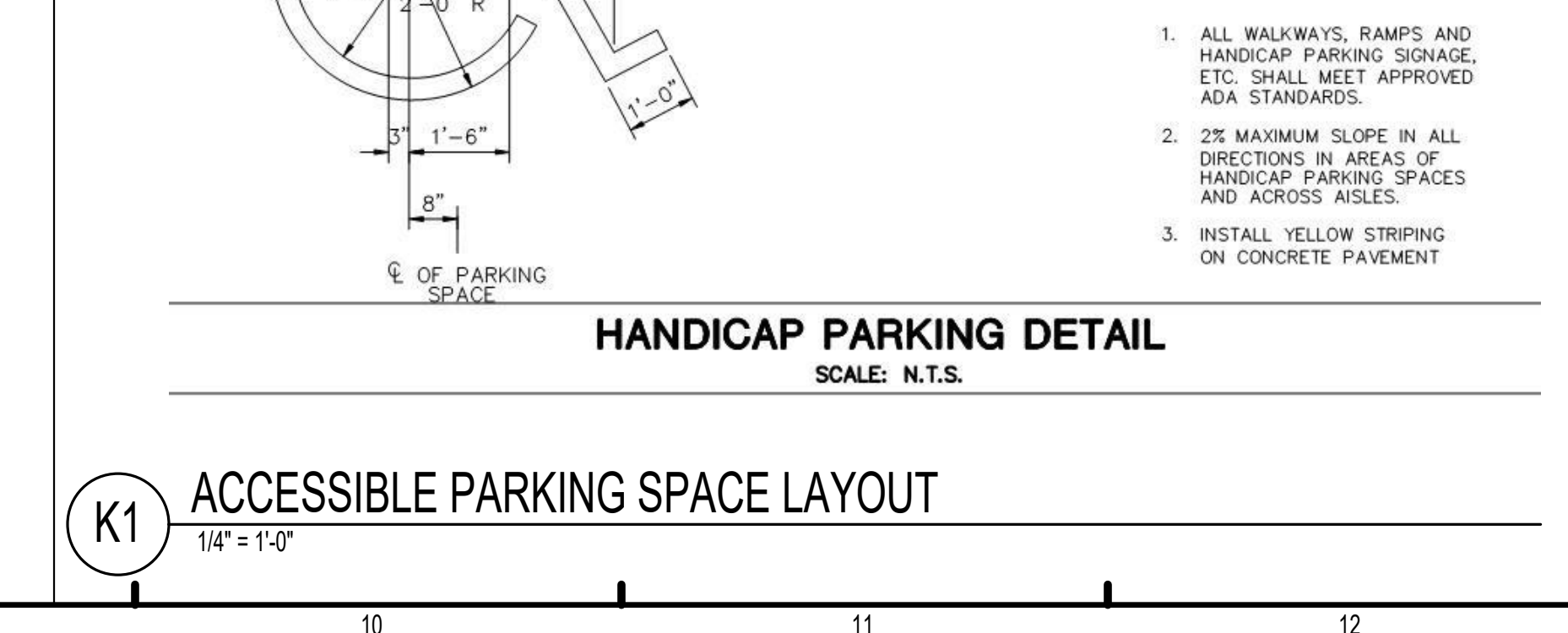
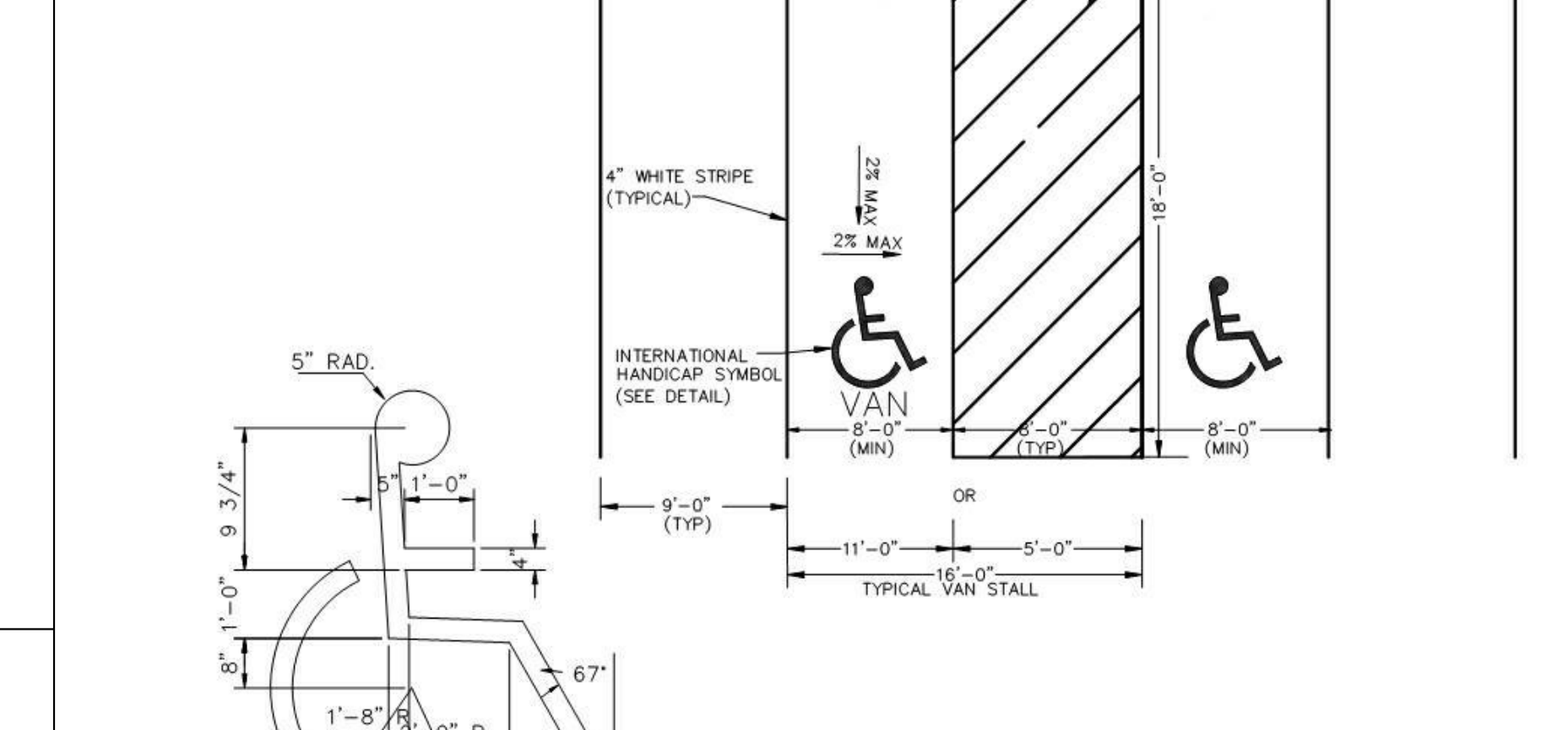
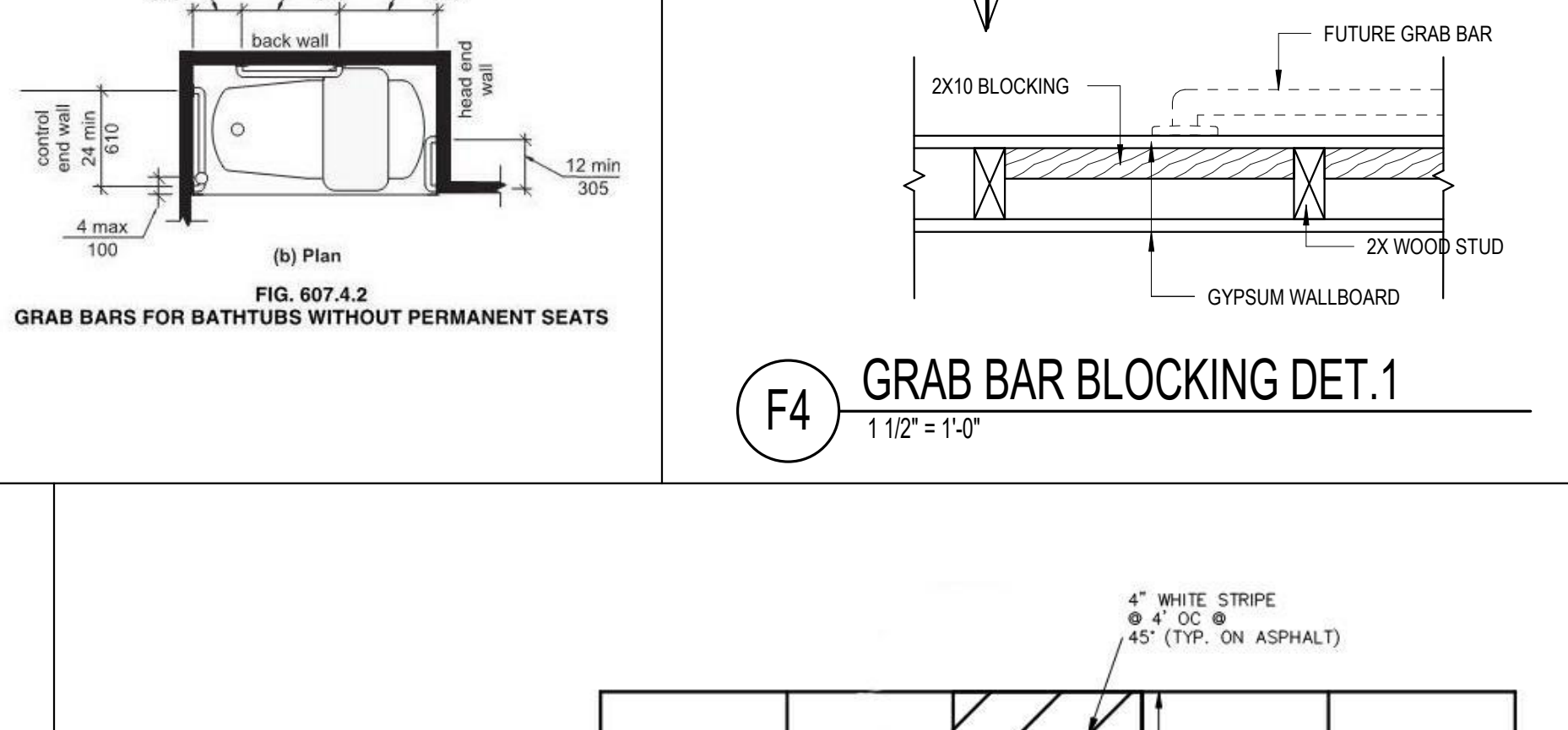
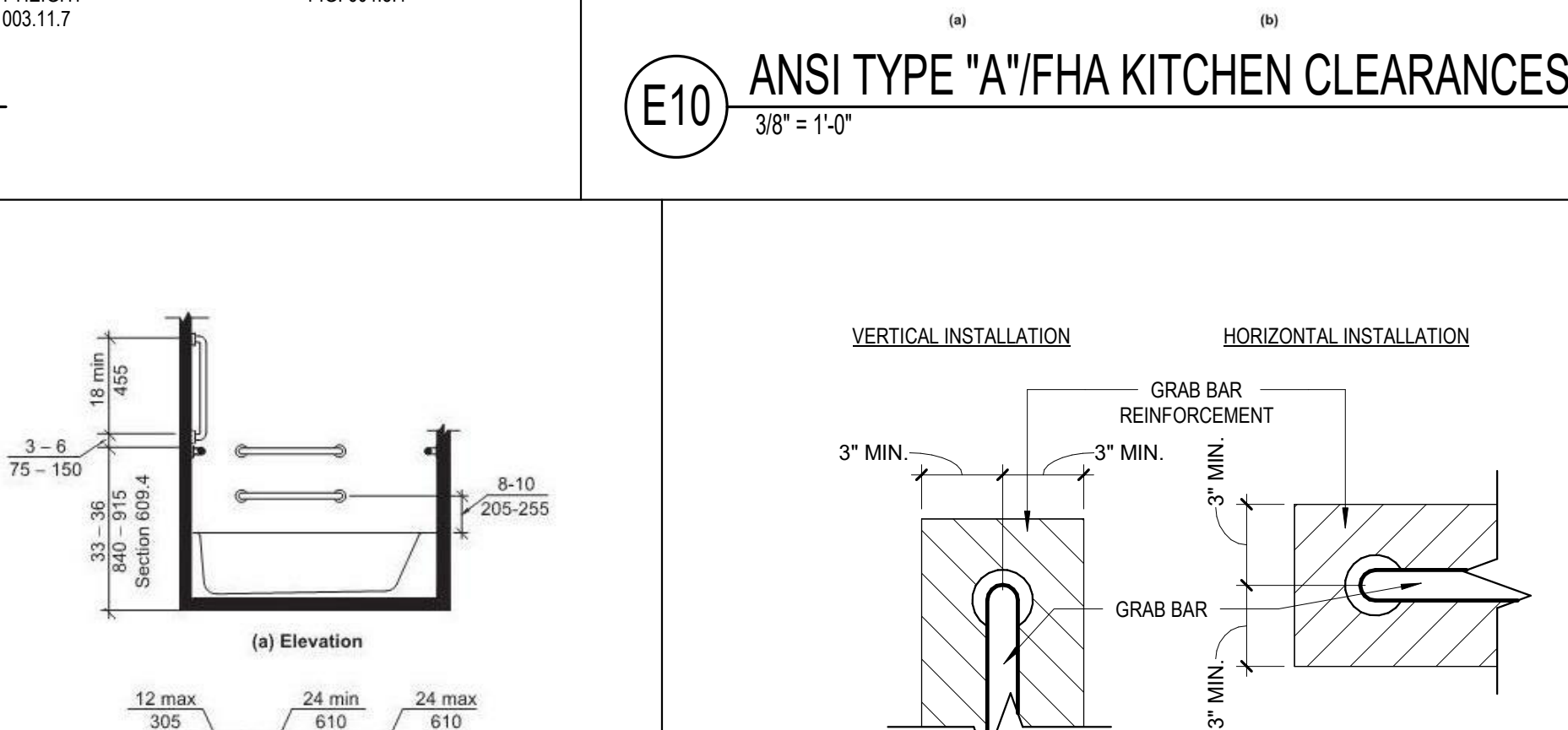
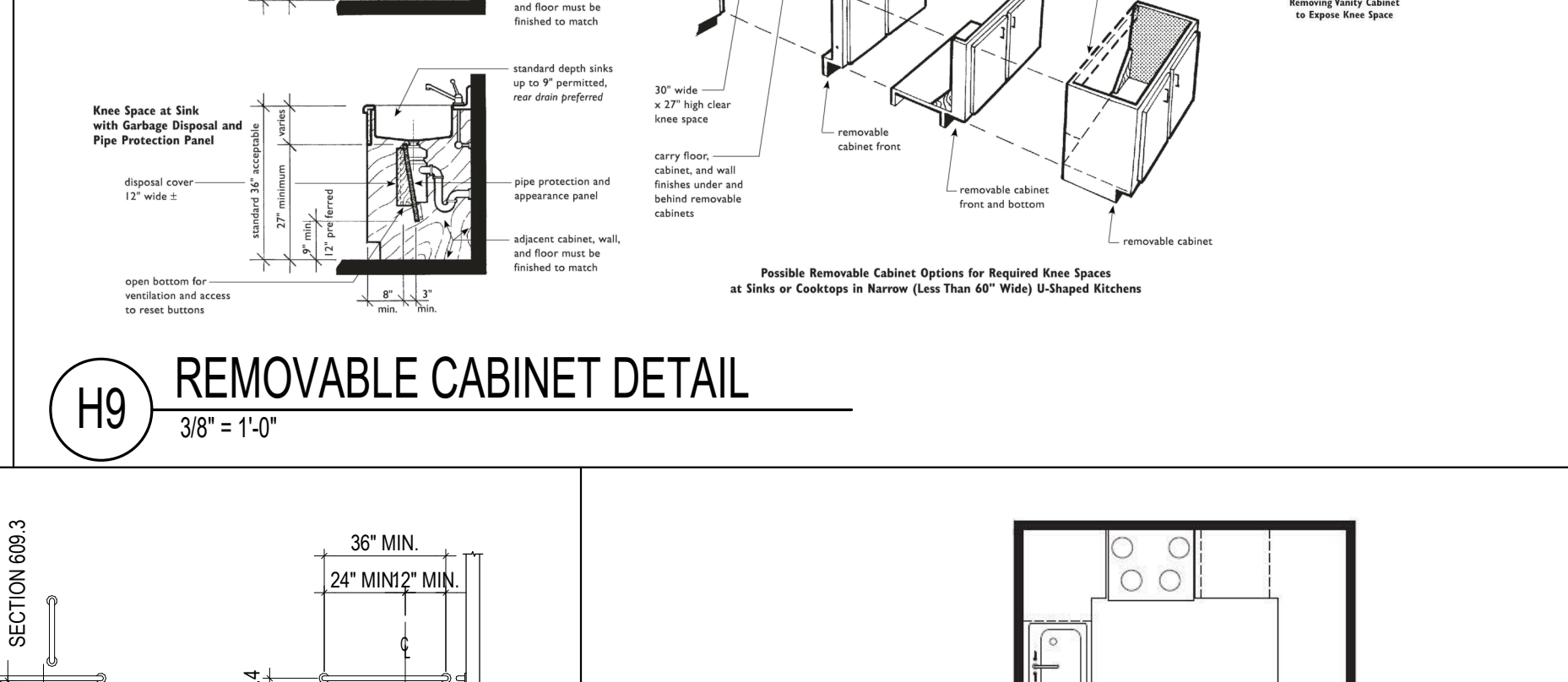
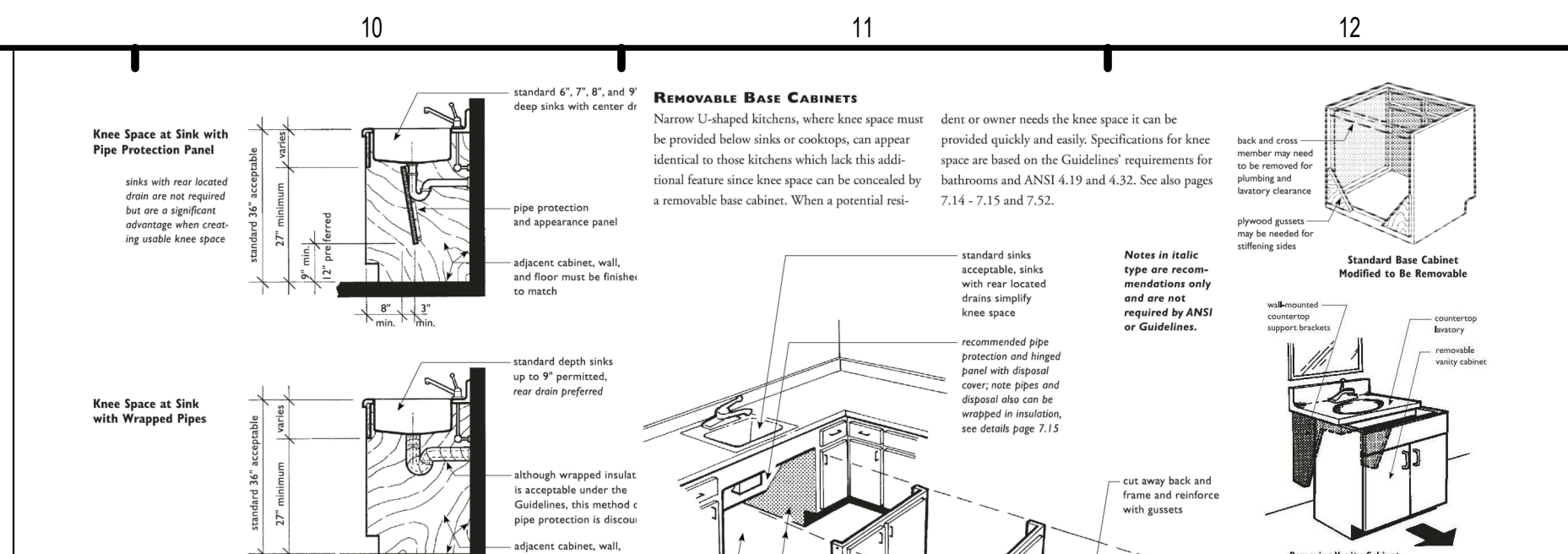
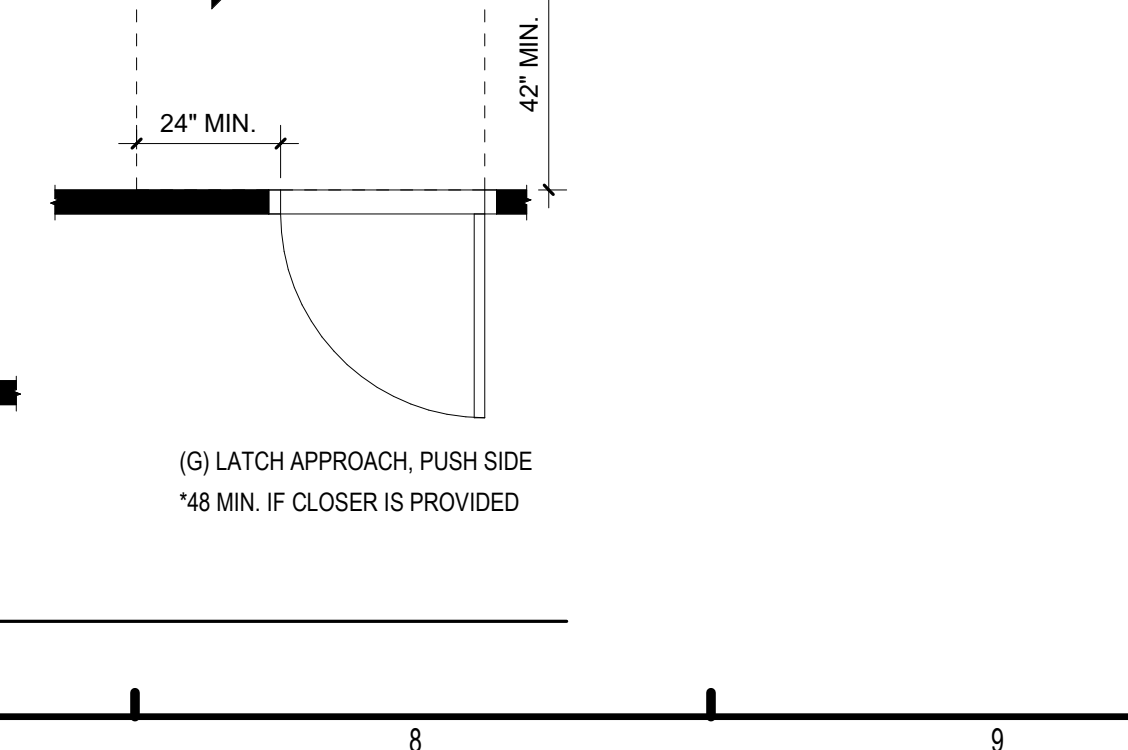
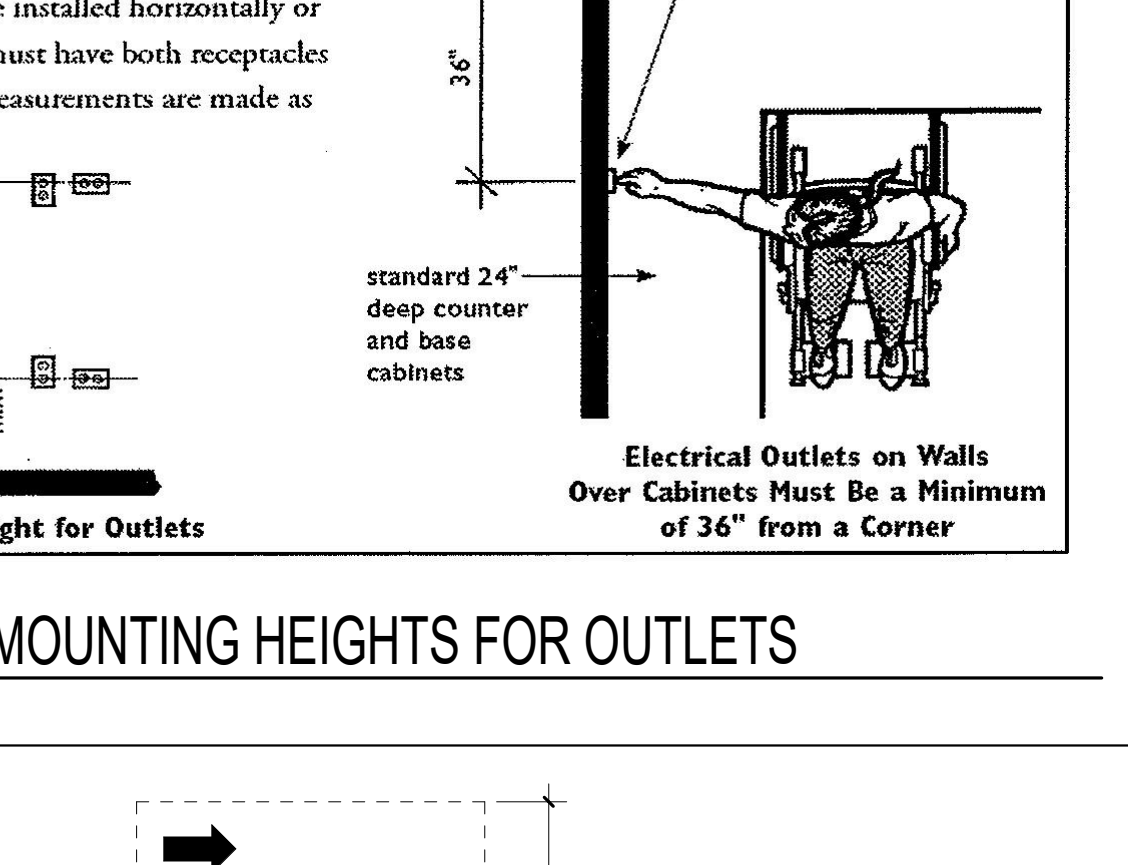
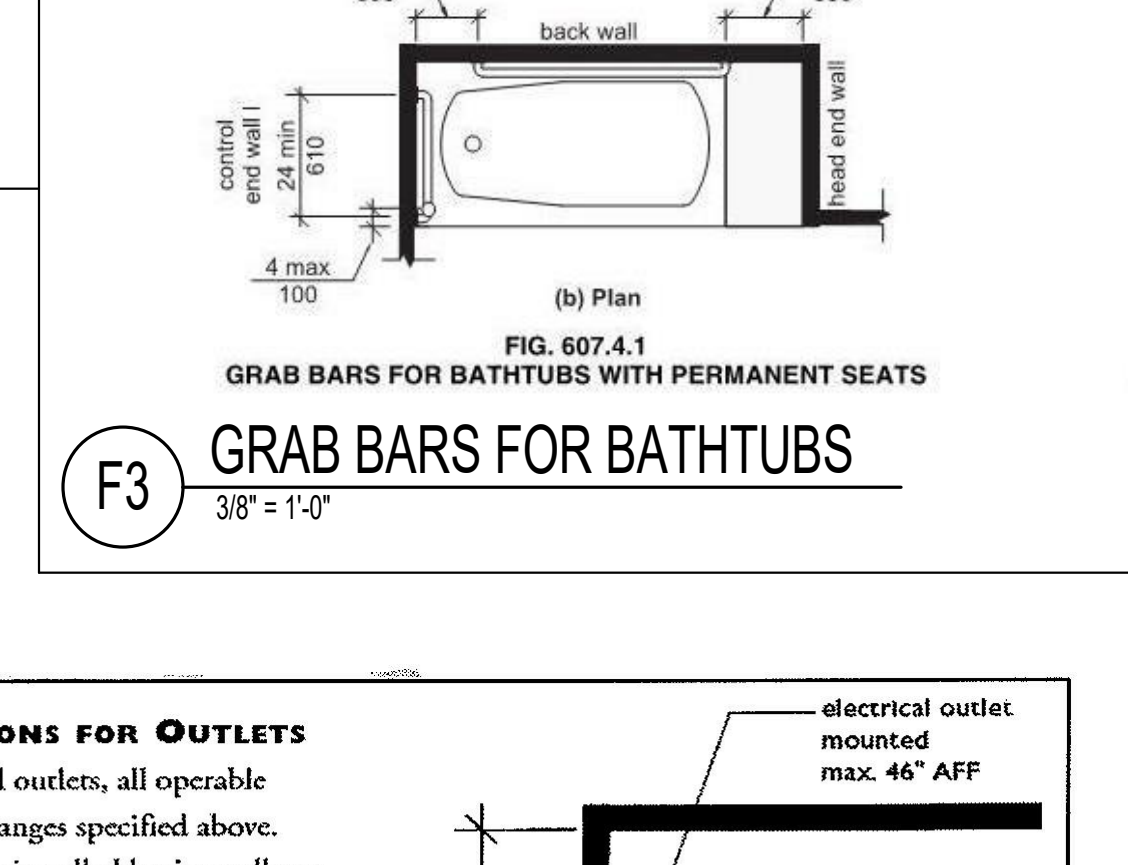
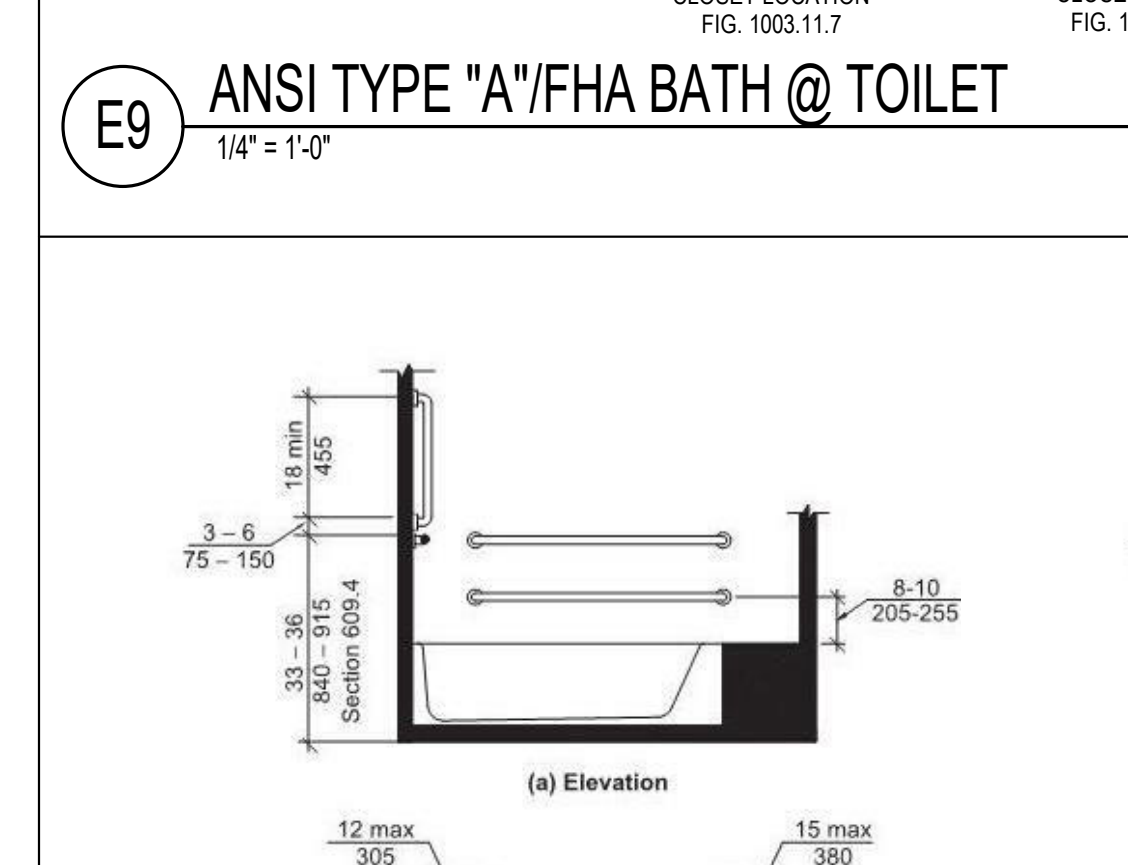
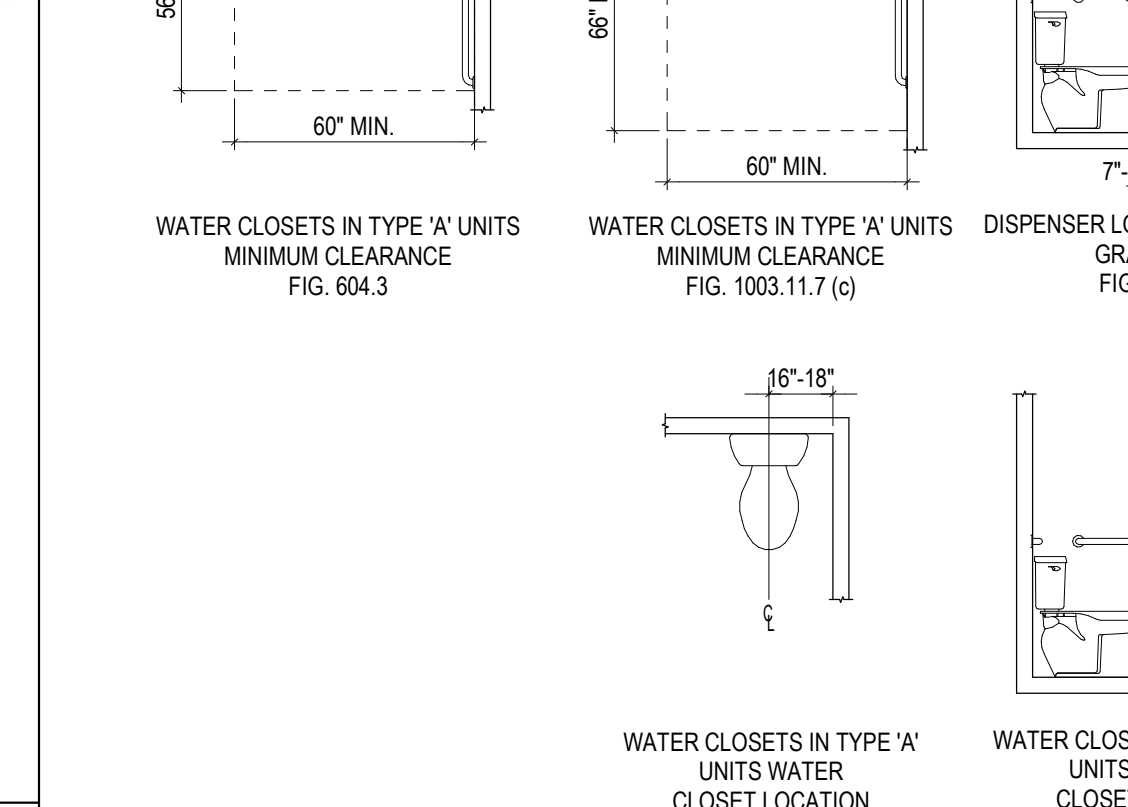
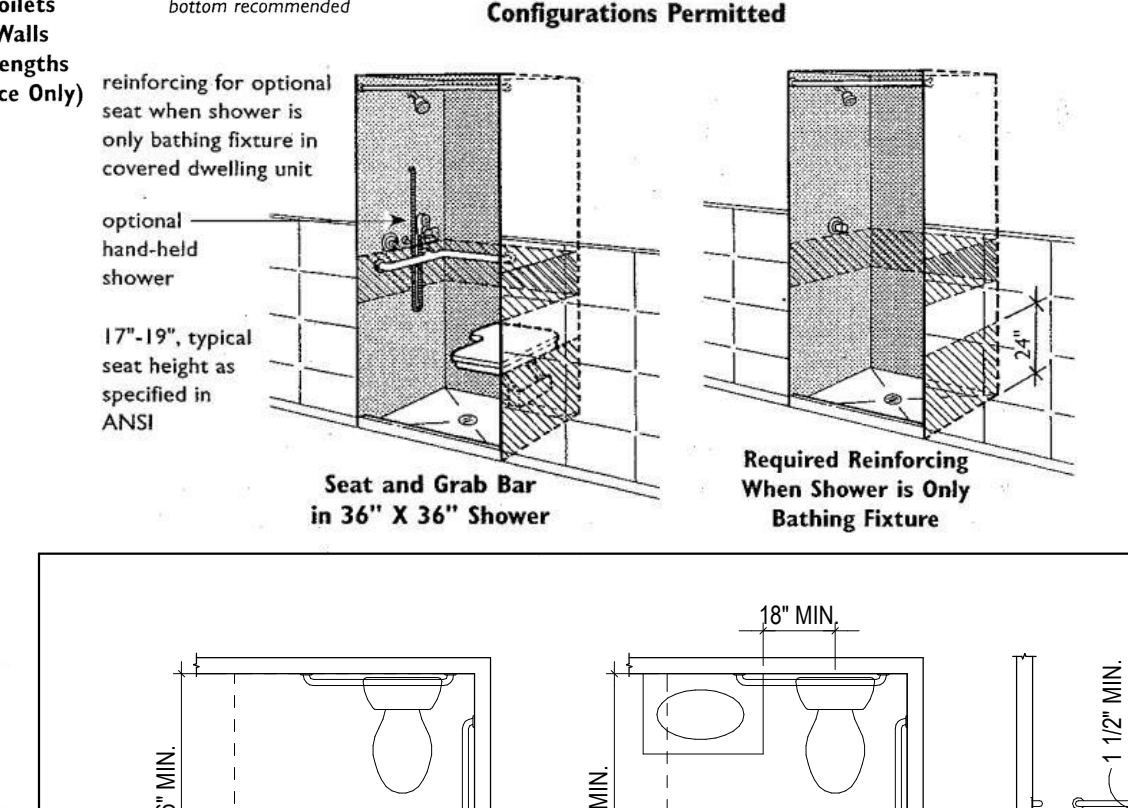
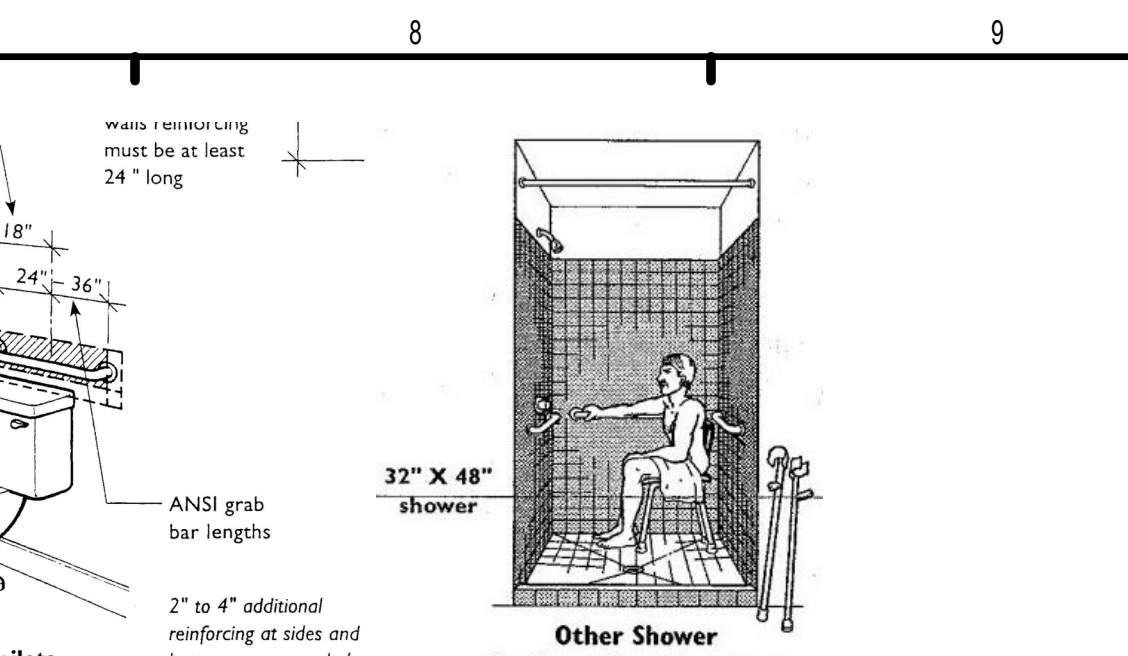
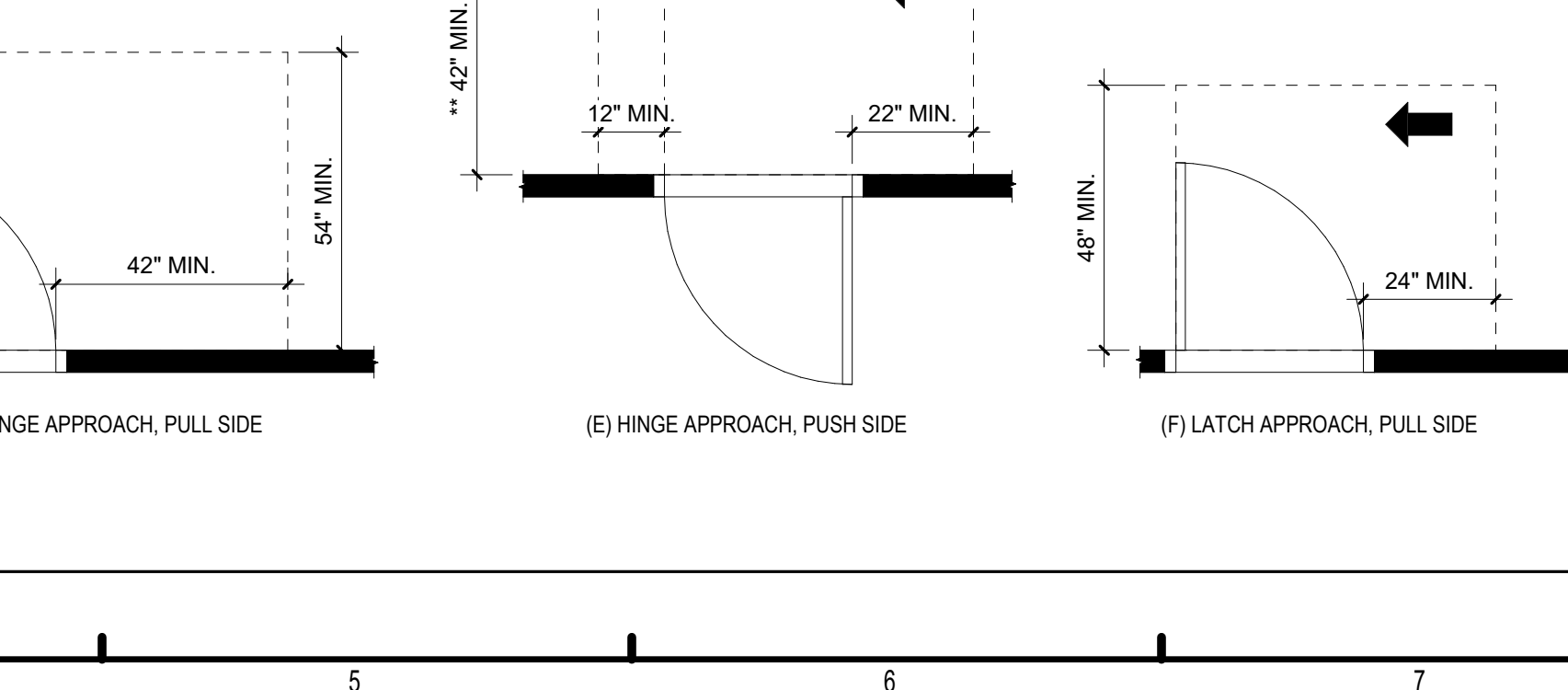
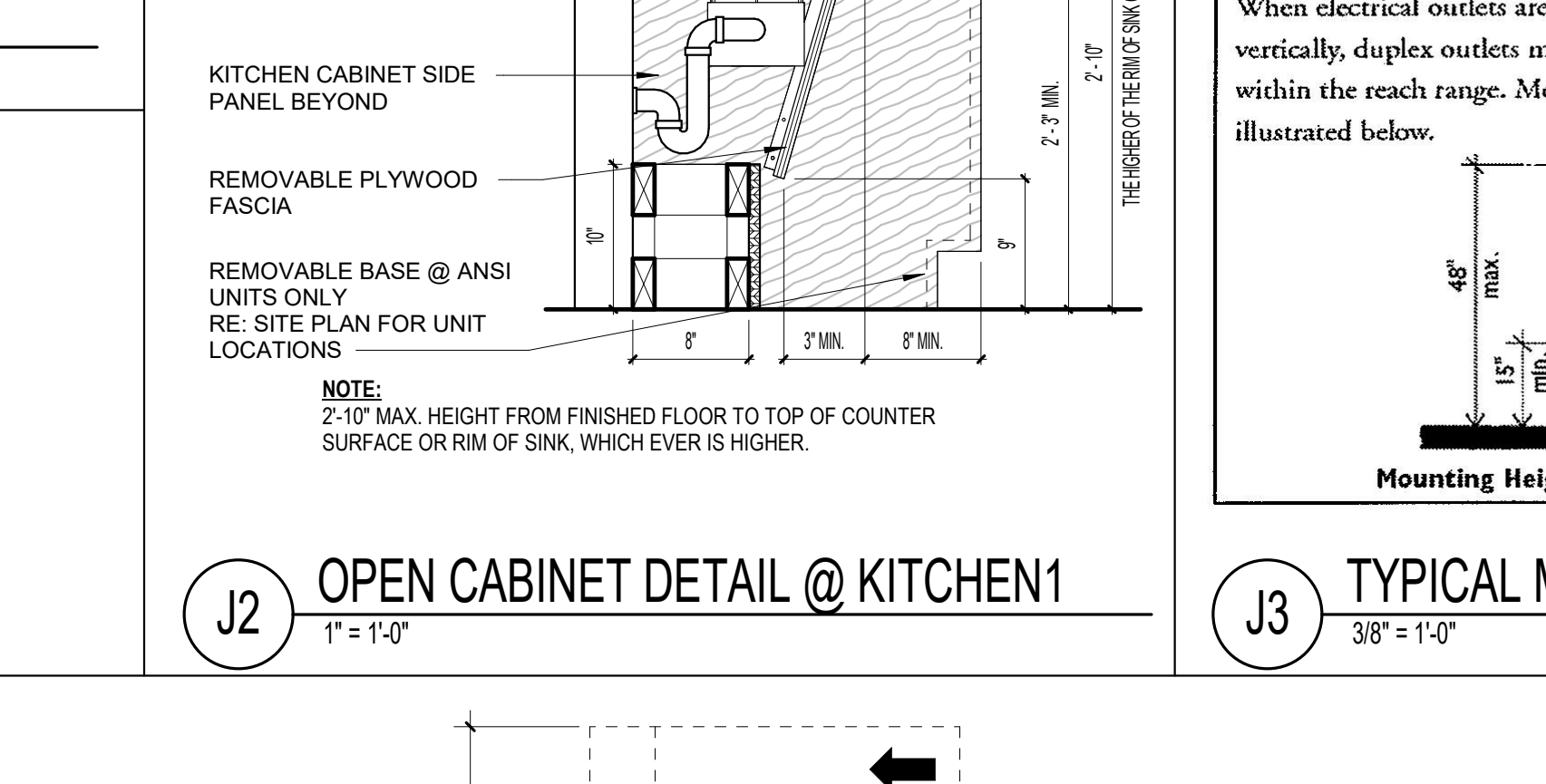
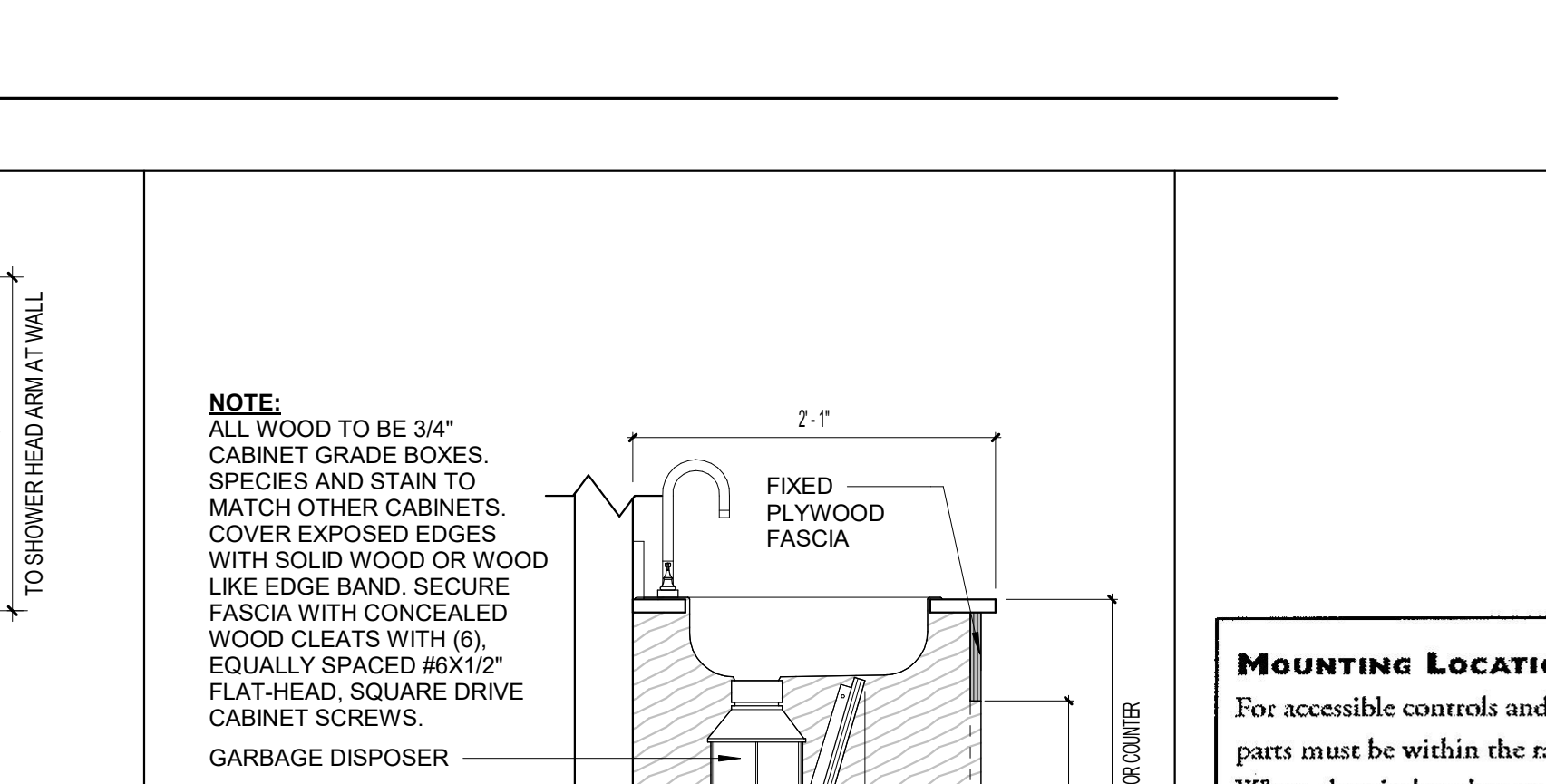
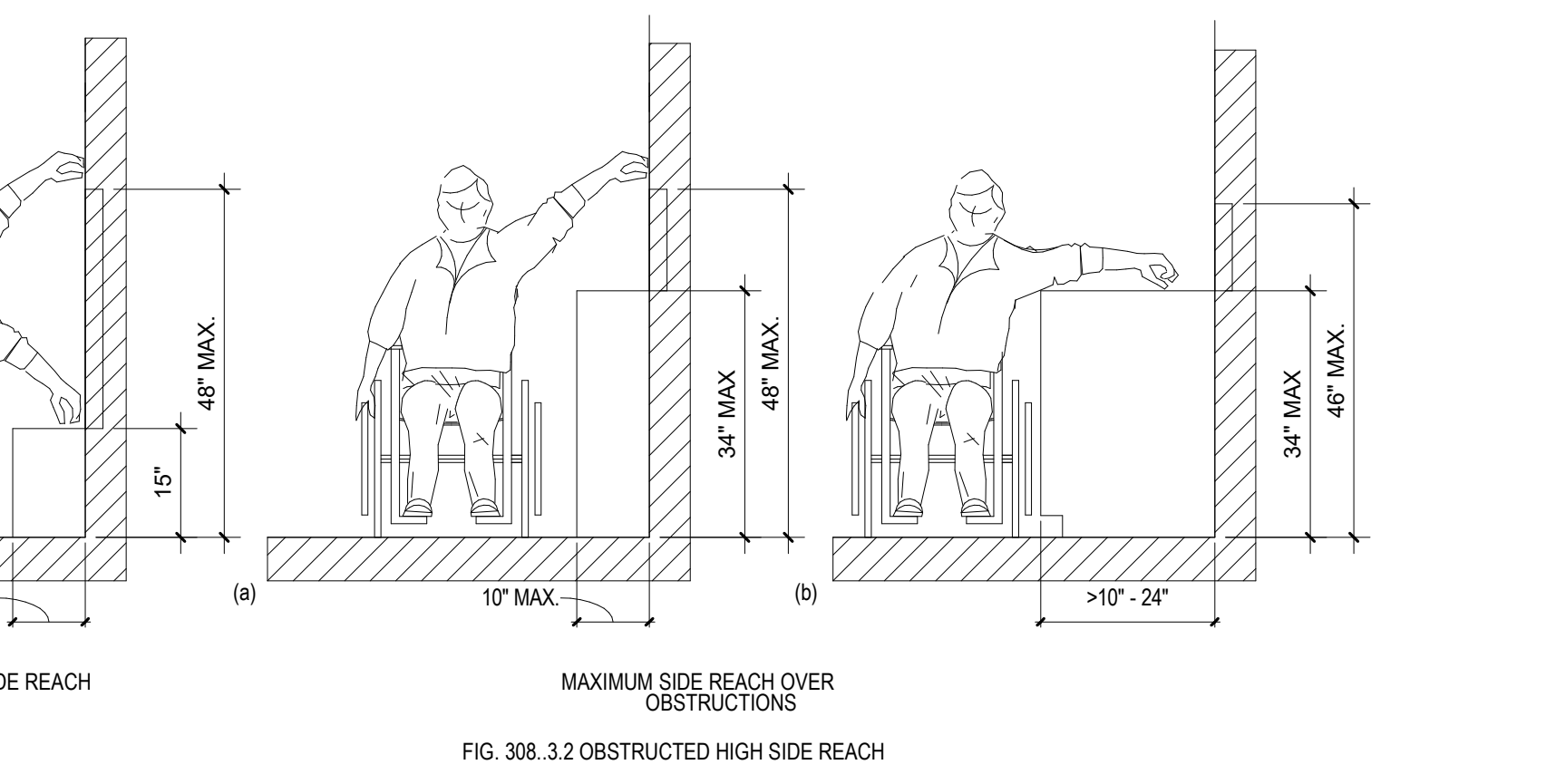
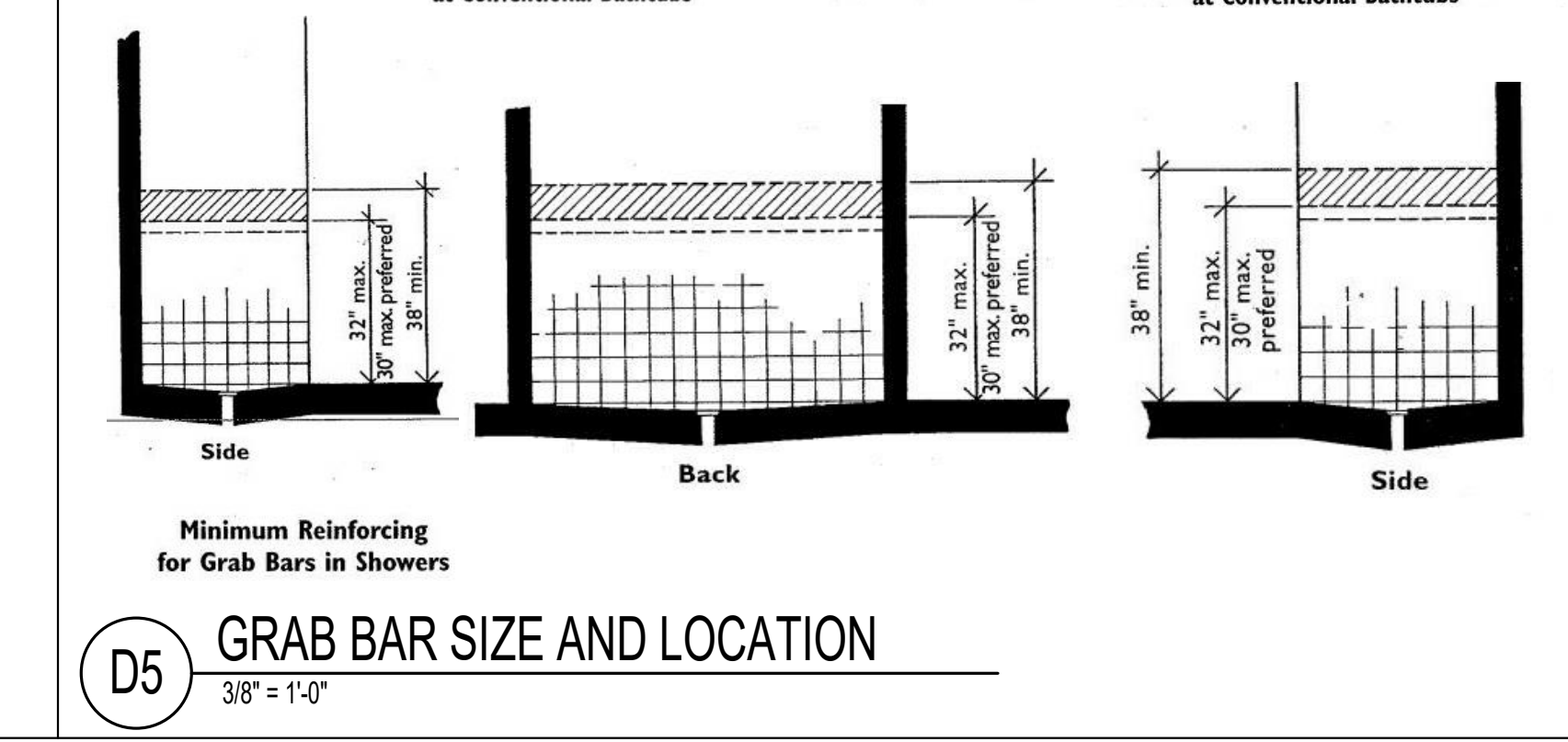
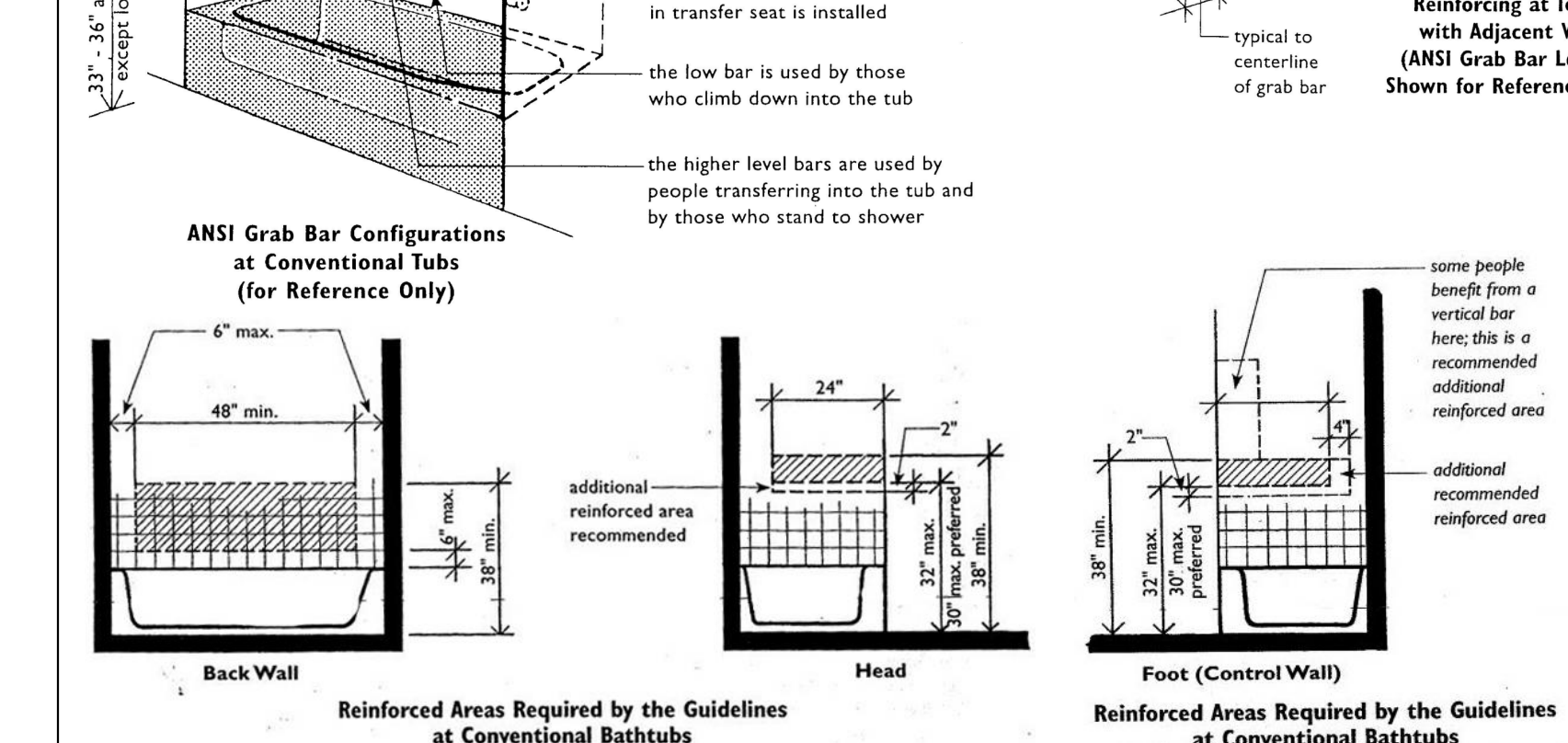
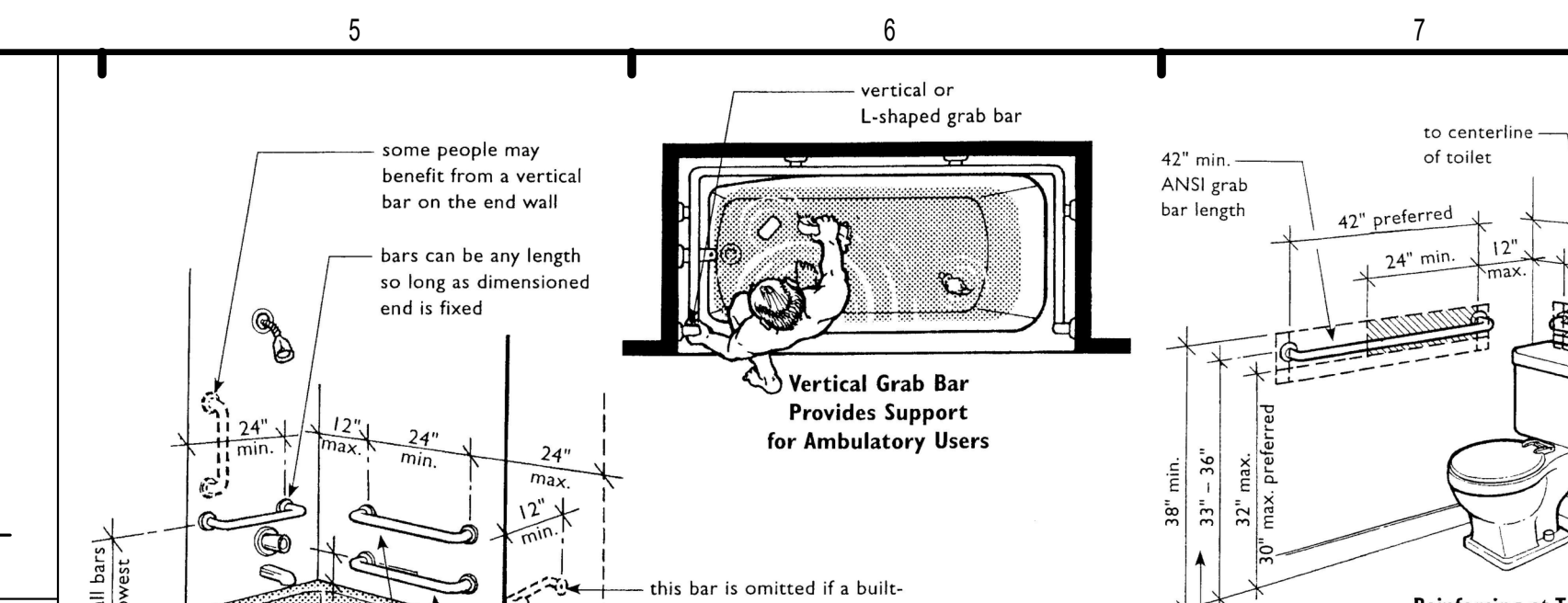
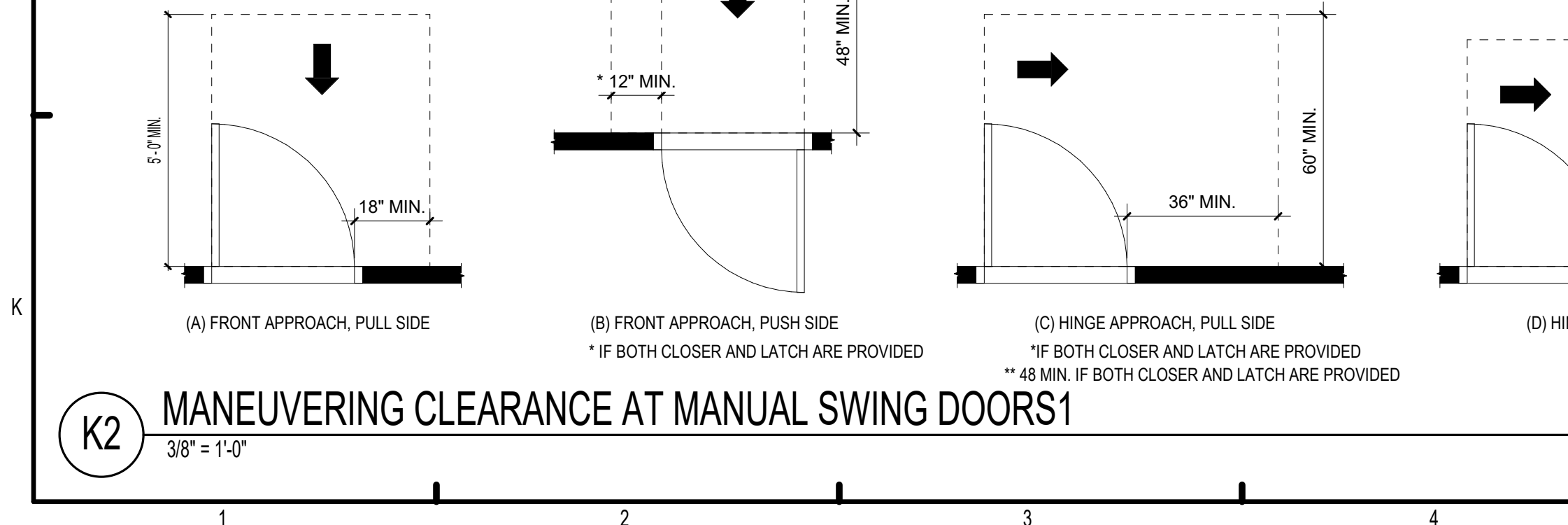
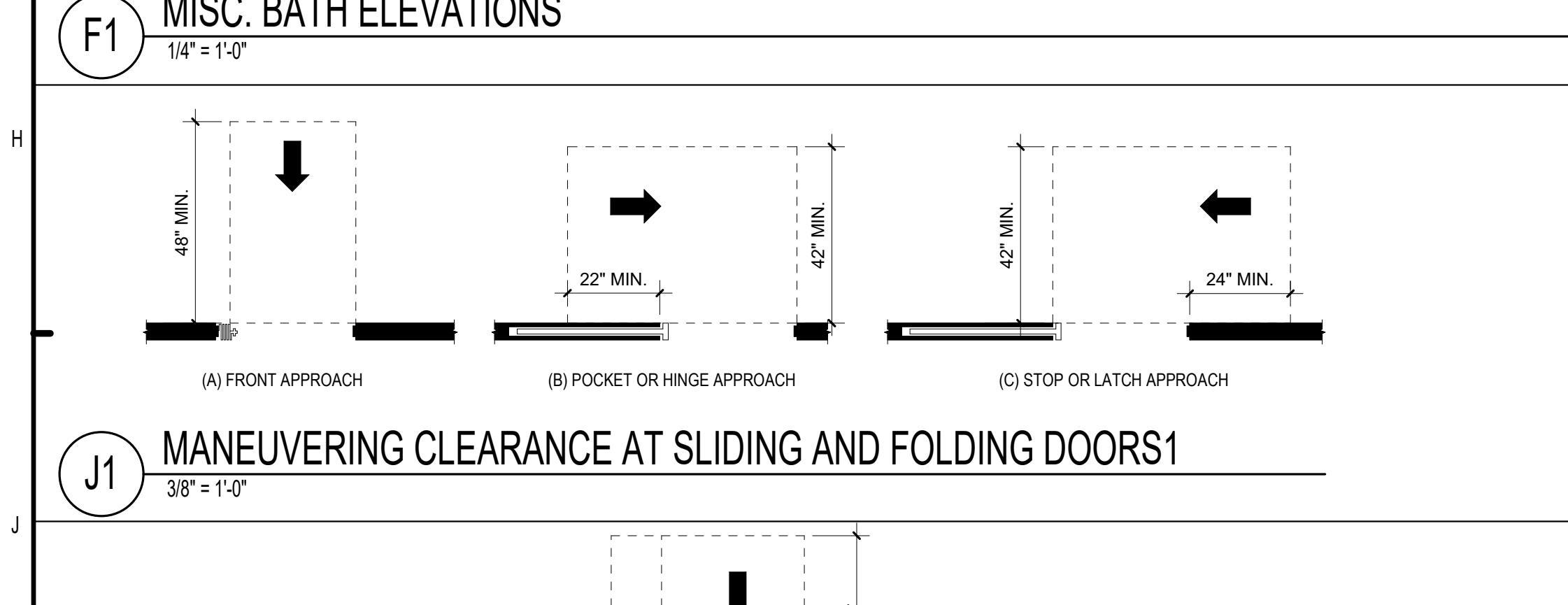
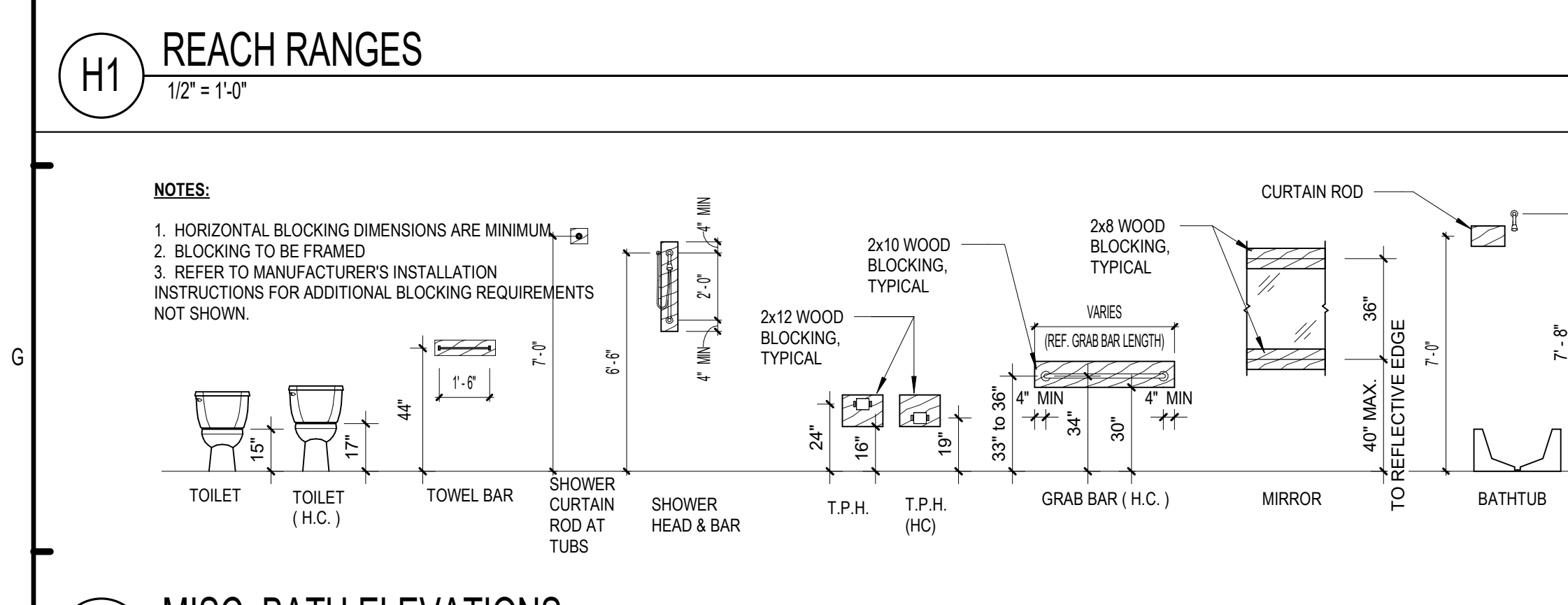
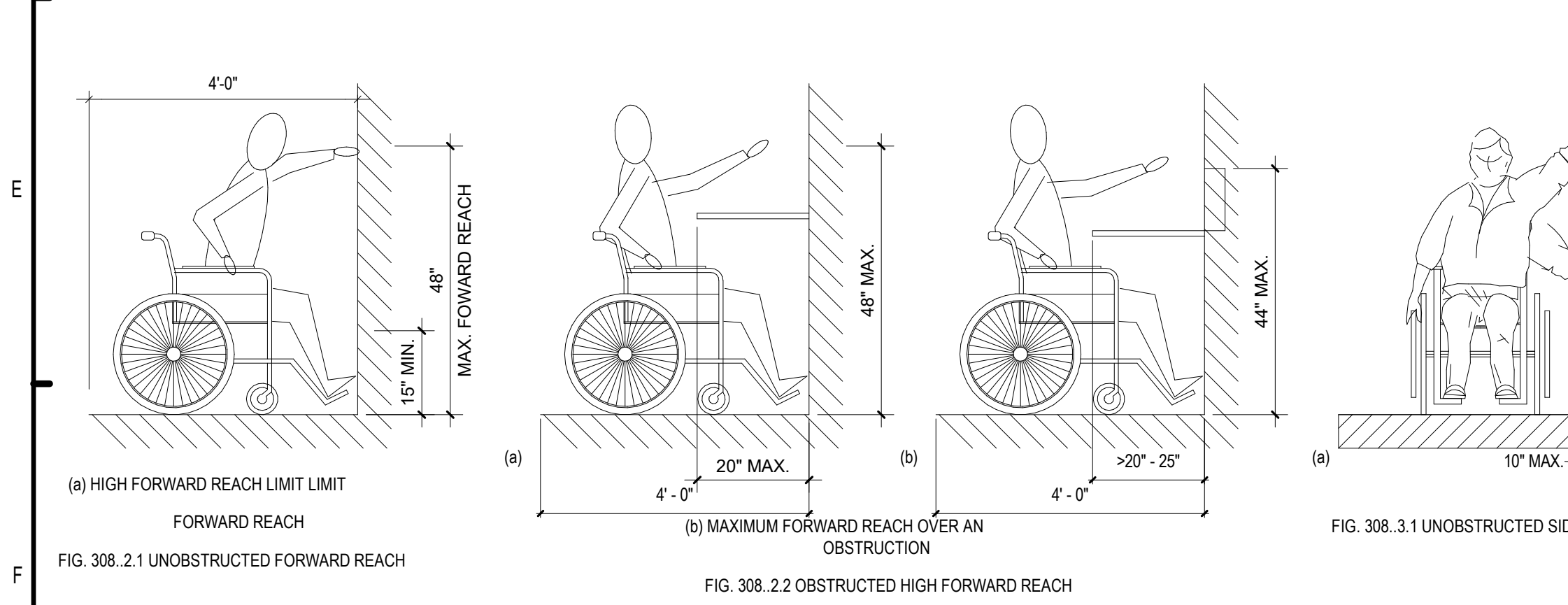
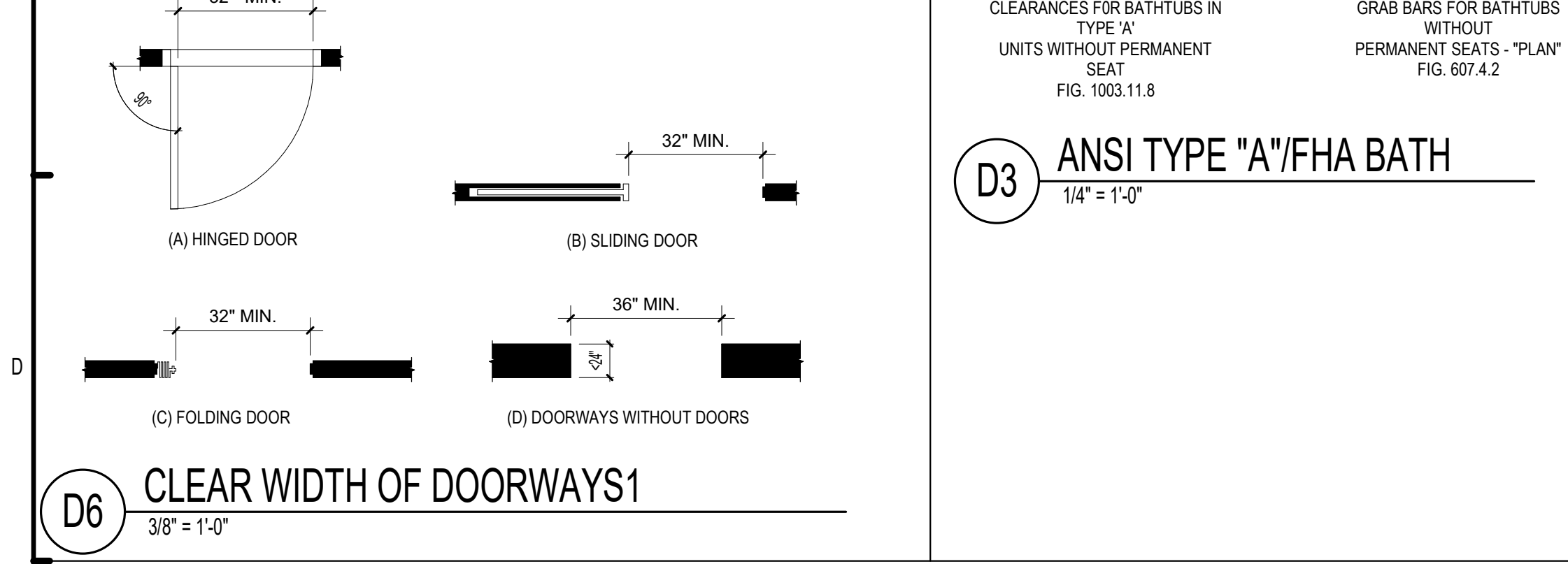
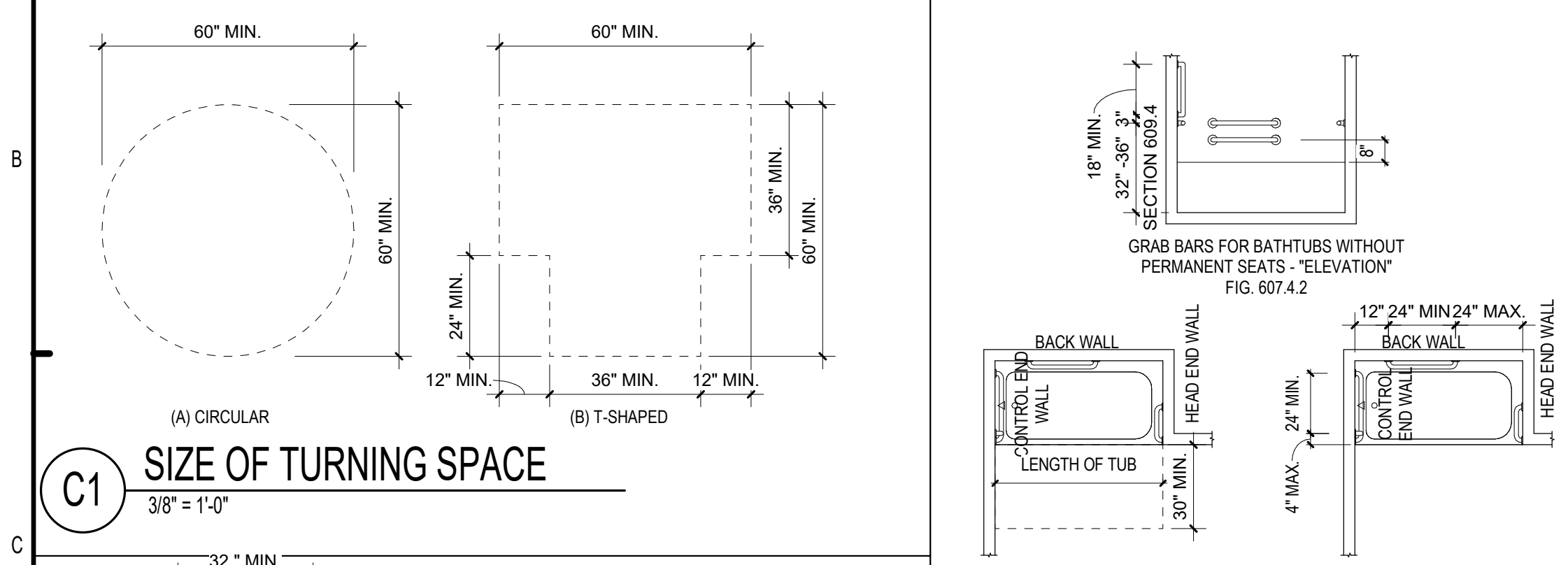
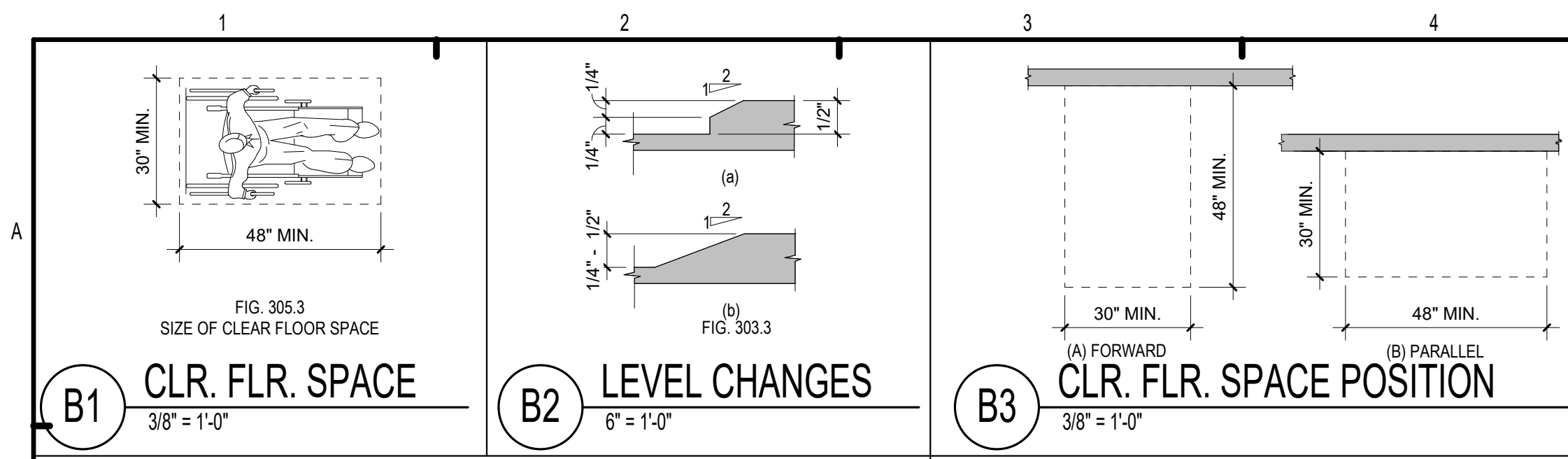
2353 Temple Trail, Winter Park, FL 32789 (407) 629-0595
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CONSULTANT



MICHAEL DOVE
8234

THE ROBERT MADISON	Drawn	MB
	Checked	JK
	Approved	MS
	Date:	04/15/2022
MADISON, ALABAMA		Project #: 5722
SHEET INDEX		
A0.01b		



ISSUE HISTORY

No.	Date	Description
1	04/15/2022	PERMIT SUBMITTAL

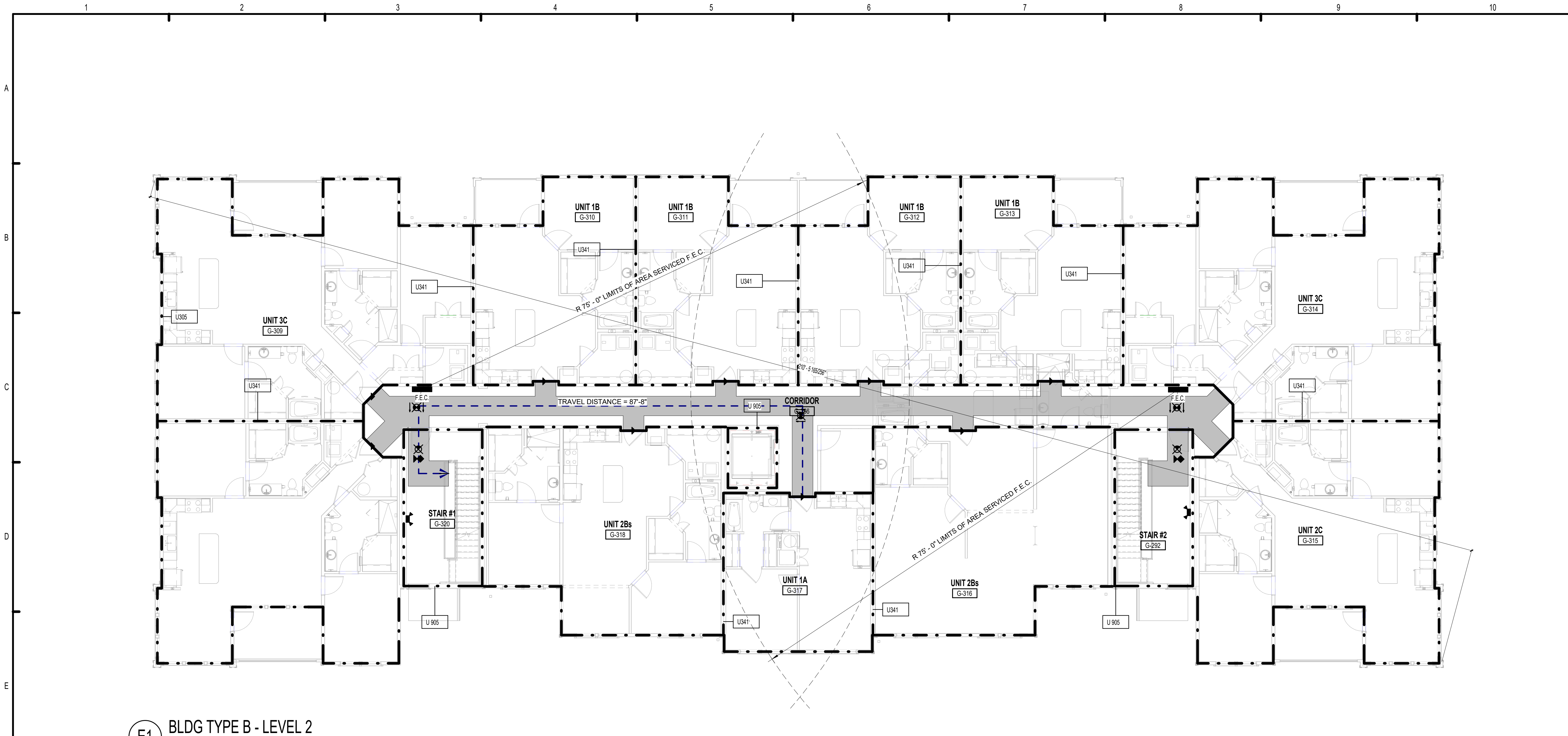
REVISION HISTORY

No.	Date	Description
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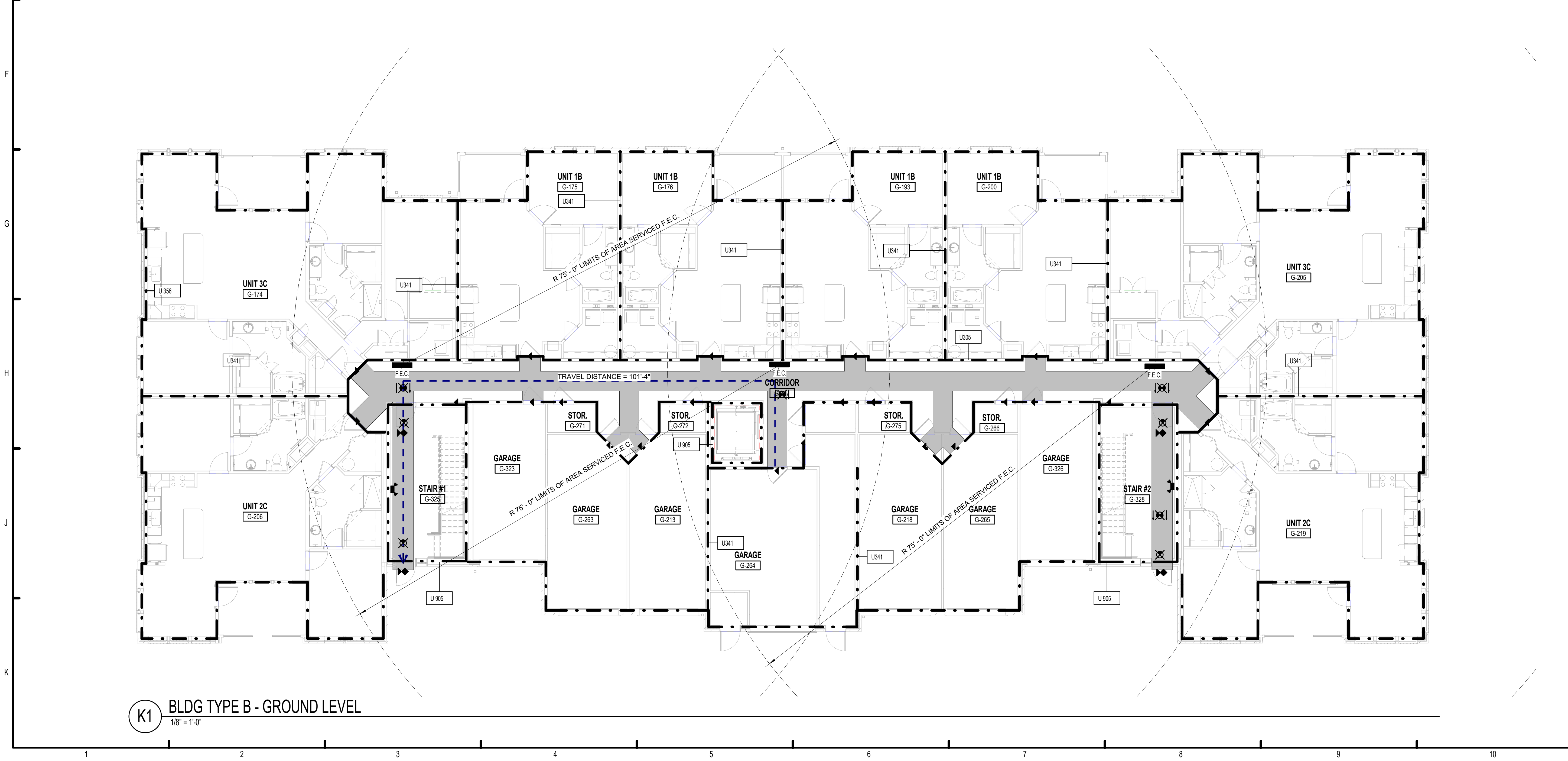
THE ROBERT MADISON
MADISON, ALABAMA

ACCESSIBLE DATA AND DETAILS

A0.03



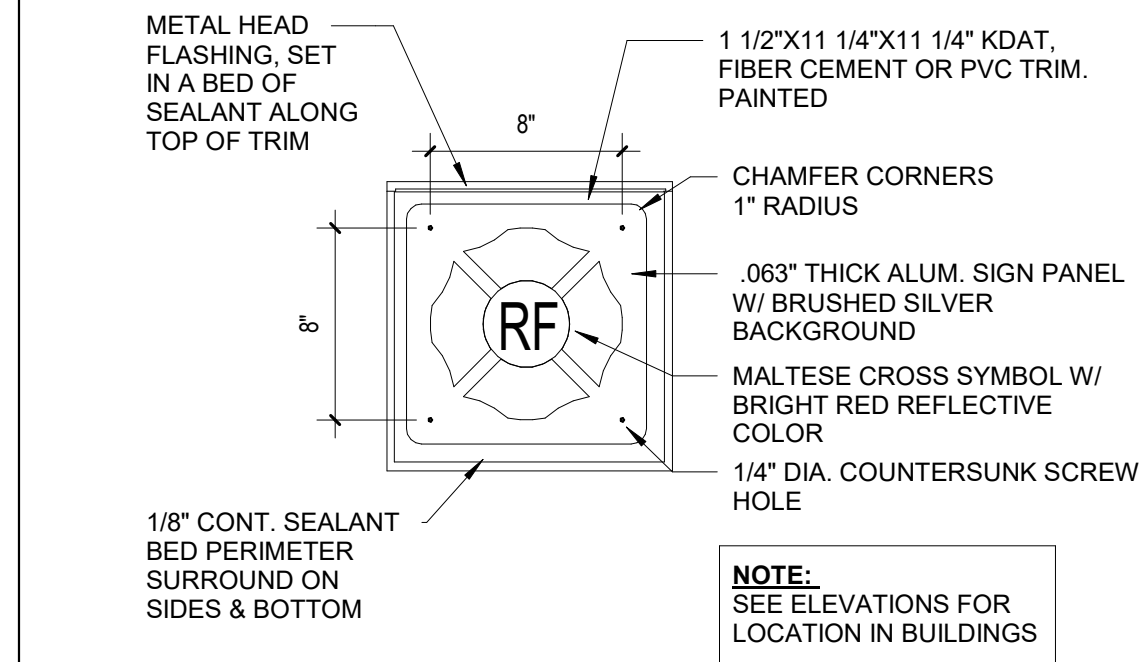
E1 BLDG TYPE B - LEVEL 2
1/8" = 1'-0"



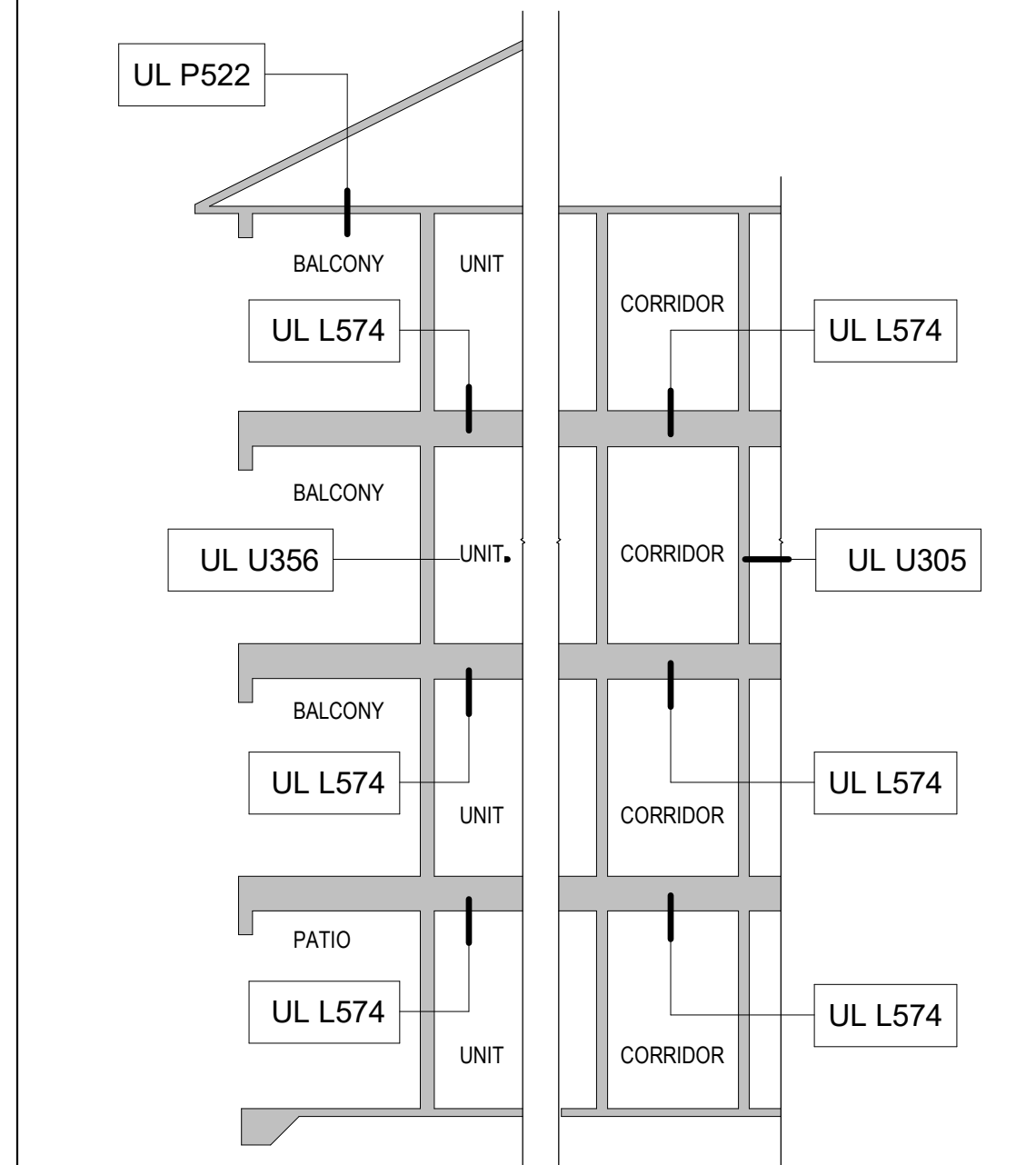
K1 BLDG TYPE B - GROUND LEVEL
1/8" = 1'-0"

ASSEMBLY SOUND RATINGS			
WALL ASSEMBLY	STC RATINGS	IC RATINGS	TEST # / STANDARD
U305	56	N/A	BW-35ST 1969/ GEIGER AND HAMME
U341	58	N/A	TL-93-270/ NRC - CNRC
U356	52	N/A	BW-35ST 1969/ GEIGER AND HAMME
U336	60	N/A	BW-35ST 1969/ GEIGER AND HAMME
HORIZONTAL ASSEMBLY	STC RATINGS	IC RATINGS	TEST # / STANDARD
P522	60	50	RAL-TL-97-340 & RAL-IN-97-47/ USG LEVELROCK SOUND CONTROL
L528	60	50	RAL-TL-97-340 & RAL-IN-97-47/ USG LEVELROCK SOUND CONTROL
L574	54	50	RAL-TL-97-340 & RAL-IN-97-47/ USG LEVELROCK SOUND CONTROL

ASSEMBLY SOUND RATINGS
1/4" = 1'-0"



FIRE SIGN DETAIL 1
1 1/2\"/>



UL FLOOR/CEILING/ROOF ASSEMBLY
1/8\"/>

LIFE SAFETY LEGEND

- NOTES:
- ALL UNIT DOOR CAPACITY - 180 PERSONS
 - ALL EXIT DOOR COMMON AREA CAPACITY - 180 PERSONS
EXCEPTION: GROUND FLOOR ENTRY LOBBY DOORS - 360 PERSONS
 - 36\"/>
 - ALL DOORS ON ACCESSIBLE ROUTE TO HAVE A MINIMUM CLEARANCE OF 2'-8\"/>
- EXIT LIGHT
- EMERGENCY LIGHT
- TRAVEL DISTANCE TO EXIT
- FIRE EXTINGUISHER
VERIFY EXACT LOCATIONS AND TYPES WITH LOCAL FIRE OFFICIALS
- 20 MIN DOOR
- 45 MIN DOOR
- 60 MIN DOOR
- 90 MIN DOOR
- REQUIRED 1 HOUR FIRE SEPARATION
- REQUIRED 2 HOUR FIRE SEPARATION

ISSUE HISTORY

No.	Date	Description
1	04/15/2022	PERMIT SUBMITTAL

REVISION HISTORY

No.	Date	Description

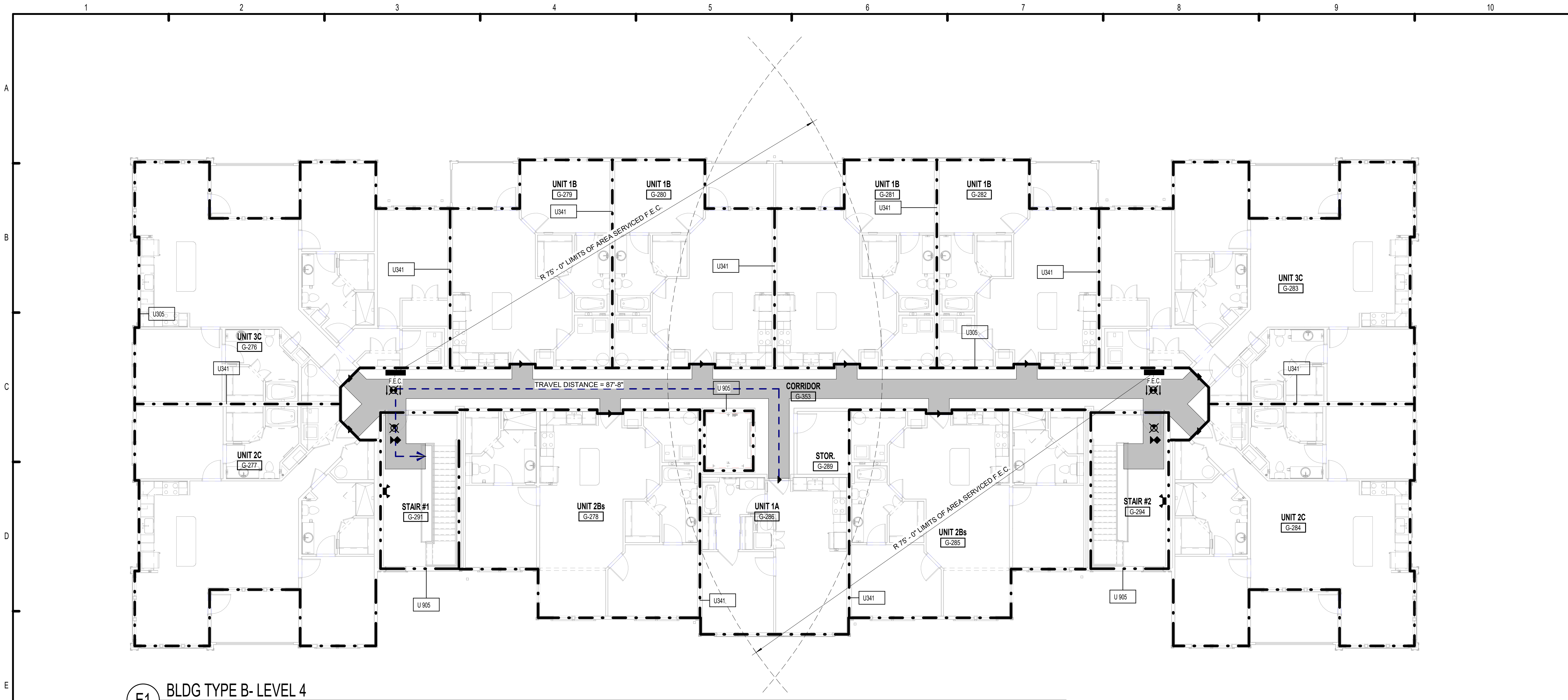
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CONSULTANT
STATE OF ALABAMA
REGISTERED ARCHITECT
8234
4/15/22
MICHAEL DOVE
6234

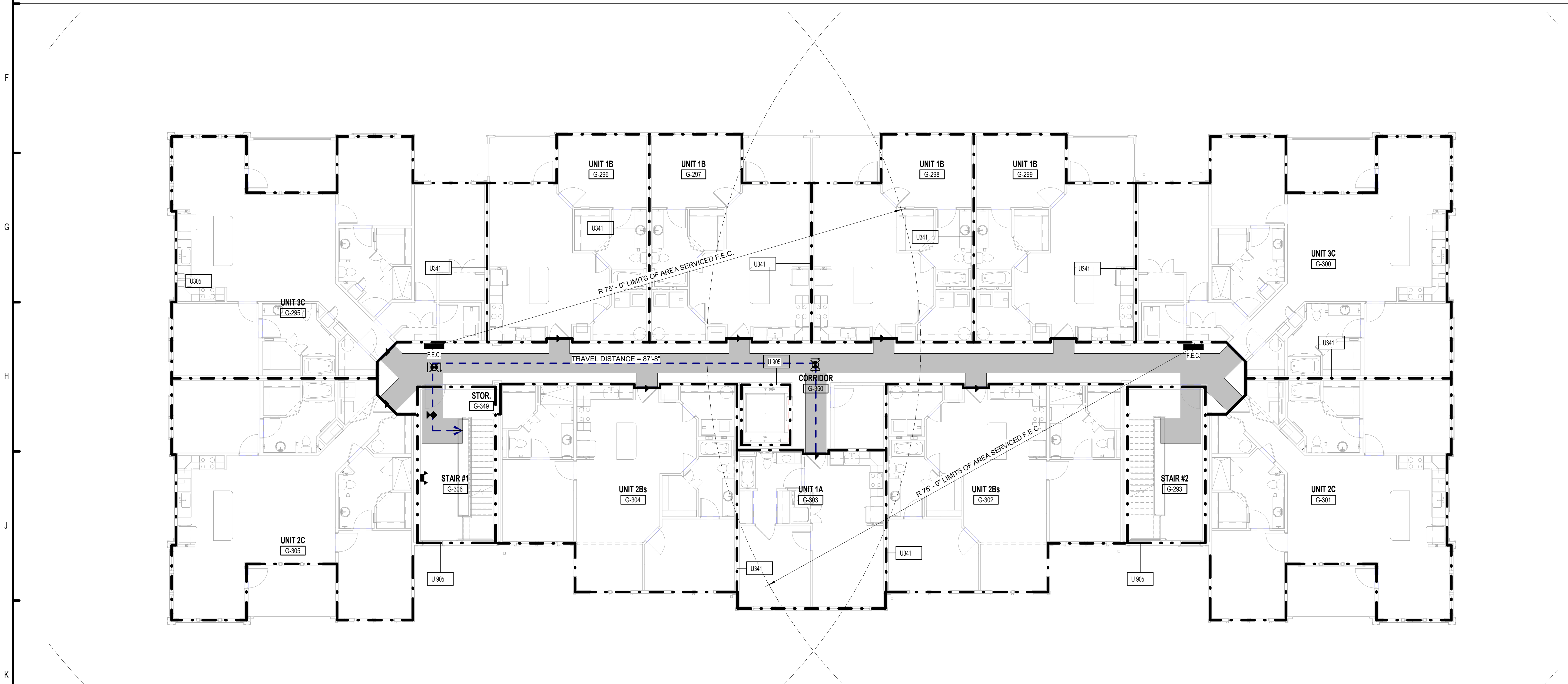
THE ROBERT MADISON
MADISON, ALABAMA
Drawn: MB
Checked: JK
Approval: MS
Date: 04/15/2022
Project #: 5722

LIFE SAFETY PLANS - BUILDING TYPE B

A0.12



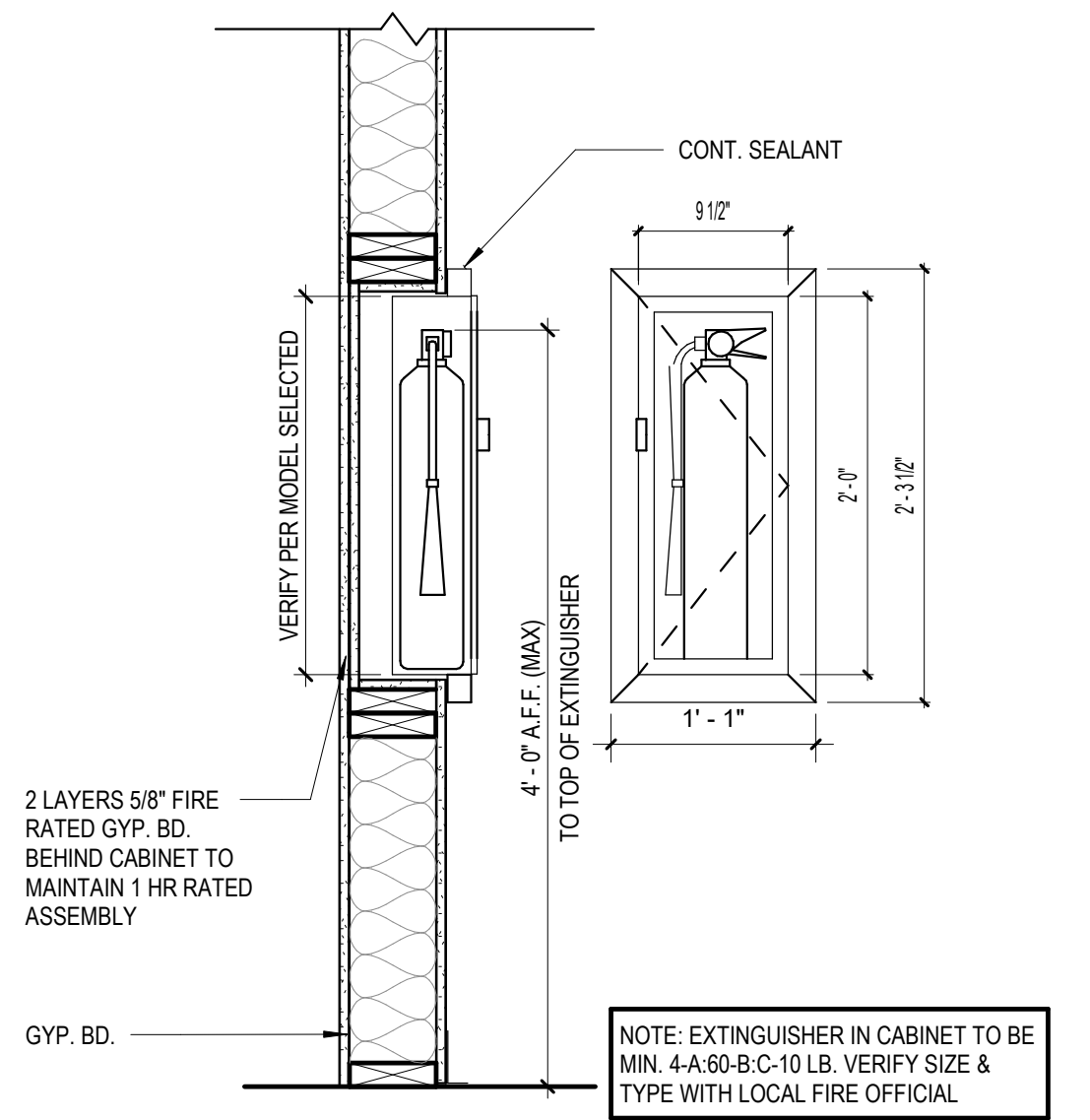
E1 BLDG TYPE B- LEVEL 4
1/8" = 1'-0"



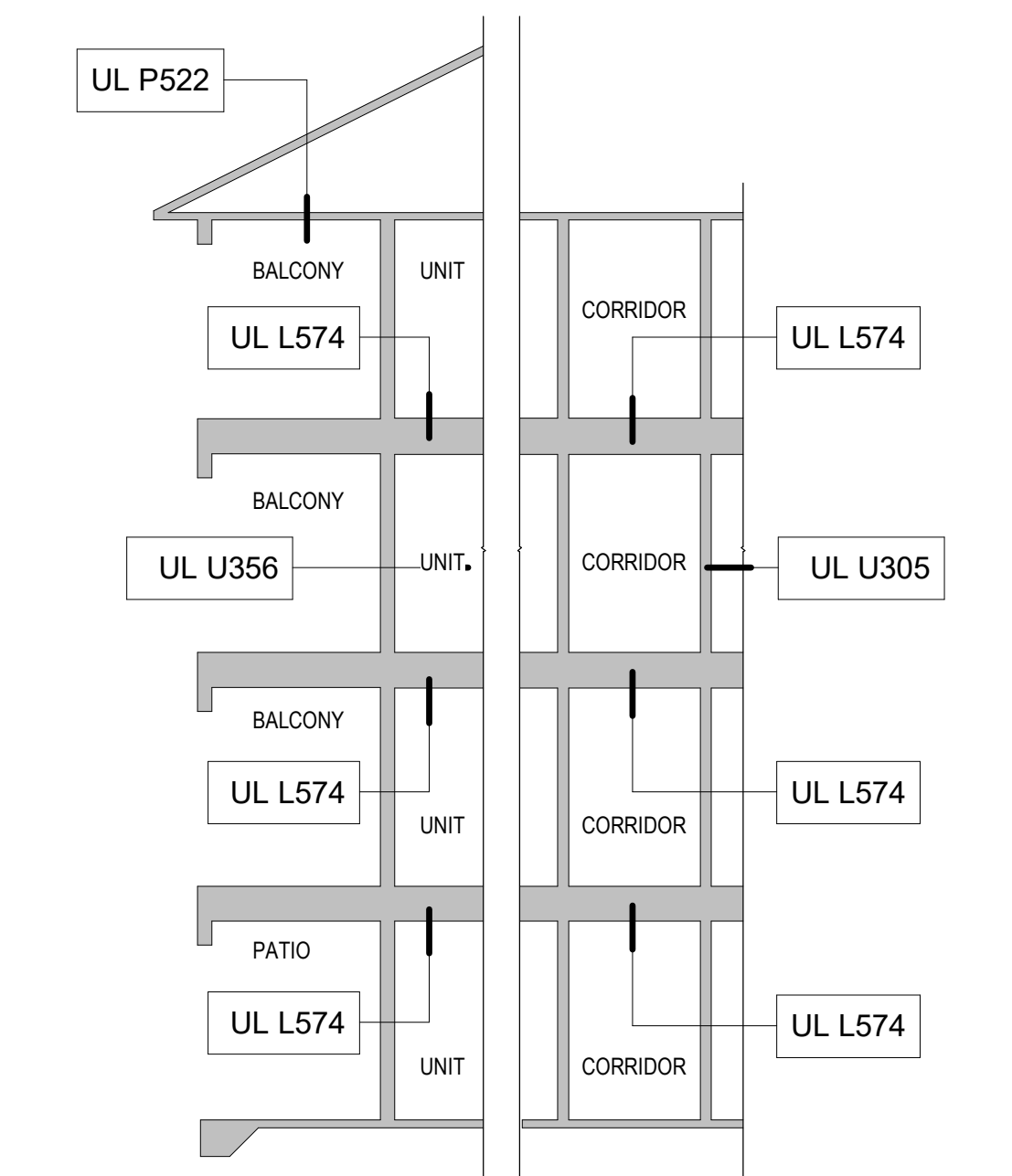
K1 BLDG TYPE B- LEVEL 3
1/8" = 1'-0"

ASSEMBLY SOUND RATINGS			
WALL ASSEMBLY	STC RATINGS	IC RATINGS	TEST # / STANDARD
U305	56	N/A	BW-35ST 1969/ GEIGER AND HAMME
U341	58	N/A	TL-93-270/ NRC - CNRC
U356	52	N/A	BW-35ST 1969/ GEIGER AND HAMME
U336	60	N/A	BW-35ST 1969/ GEIGER AND HAMME
HORIZONTAL ASSEMBLY	STC RATINGS	IC RATINGS	TEST # / STANDARD
P522	60	50	RAL-TL-97-340 & RAL-IN-97-47/ USG LEVELROCK SOUND CONTROL
L528	60	50	RAL-TL-97-340 & RAL-IN-97-47/ USG LEVELROCK SOUND CONTROL
L574	54	50	RAL-TL-97-340 & RAL-IN-97-47/ USG LEVELROCK SOUND CONTROL

ASSEMBLY SOUND RATINGS
1/4" = 1'-0"



FIRE EXTINGUISHER CABINET
1" = 1'-0"



UL FLOOR/CEILING/ROOF ASSEMBLY
1/8" = 1'-0"

LIFE SAFETY LEGEND

- NOTES:
- ALL UNIT DOOR CAPACITY - 180 PERSONS
 - ALL EXIT DOOR COMMON AREA CAPACITY - 180 PERSONS
EXCEPTION: GROUND FLOOR ENTRY LOBBY DOORS - 360 PERSONS
 - 36" WIDE ACCESSIBLE ROUTE REQUIRED PER FAIR HOUSING.
 - ALL DOORS ON ACCESSIBLE ROUTE TO HAVE A MINIMUM CLEARANCE OF 2'-8" (32").
- EXIT LIGHT
- EMERGENCY LIGHT
- TRAVEL DISTANCE TO EXIT
- FIRE EXTINGUISHER
VERIFY EXACT LOCATIONS AND TYPES WITH LOCAL FIRE OFFICIALS
- 20 MIN DOOR
- 45 MIN DOOR
- 60 MIN DOOR
- 90 MIN DOOR
- REQUIRED 1 HOUR FIRE SEPARATION
- REQUIRED 2 HOUR FIRE SEPARATION

ISSUE HISTORY

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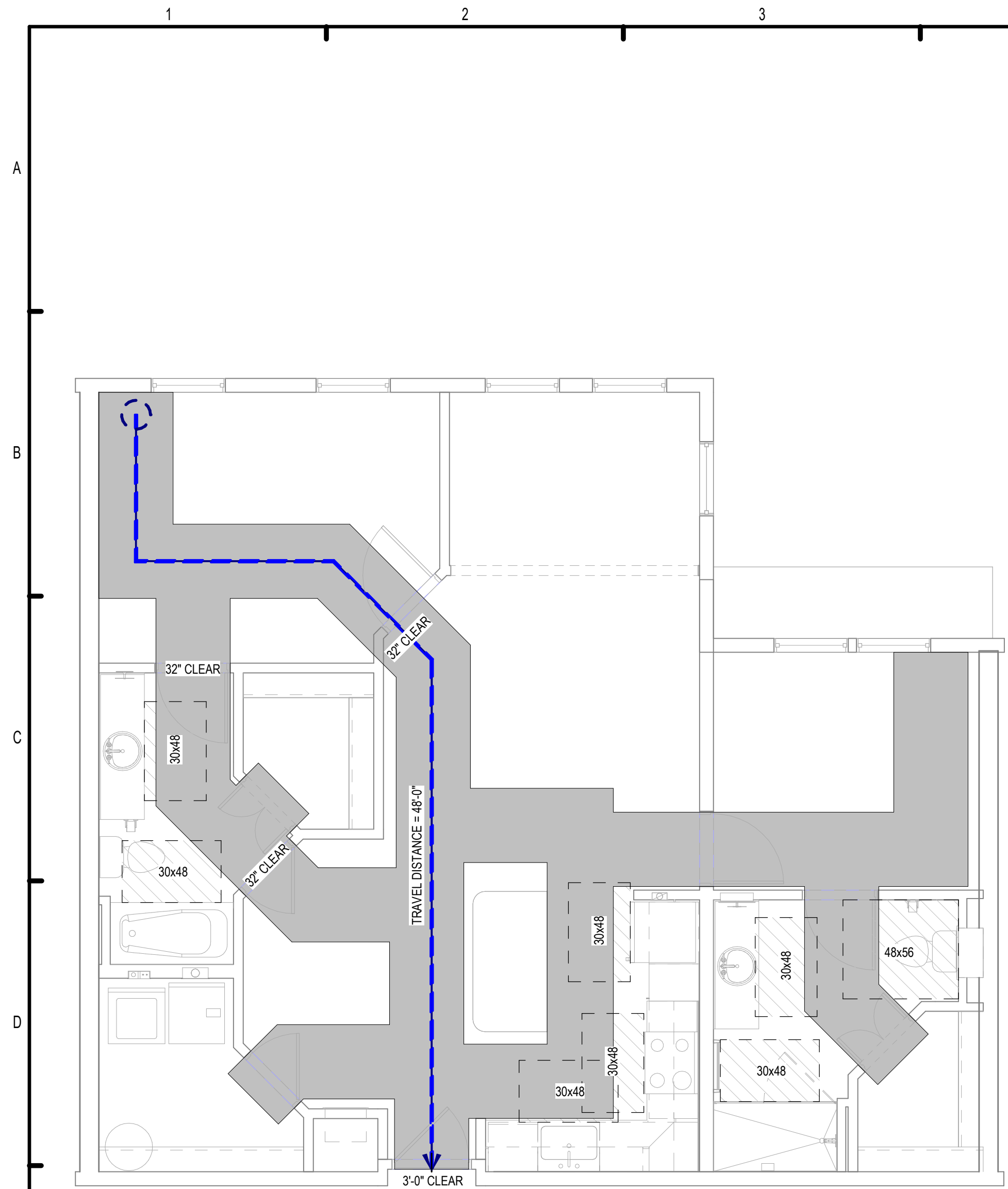
CONSULTANT
STATE OF ALABAMA
REGISTERED ARCHITECT
8234
4/15/22
MICHAEL DOVE
6234

THE ROBERT MADISON
MADISON, ALABAMA

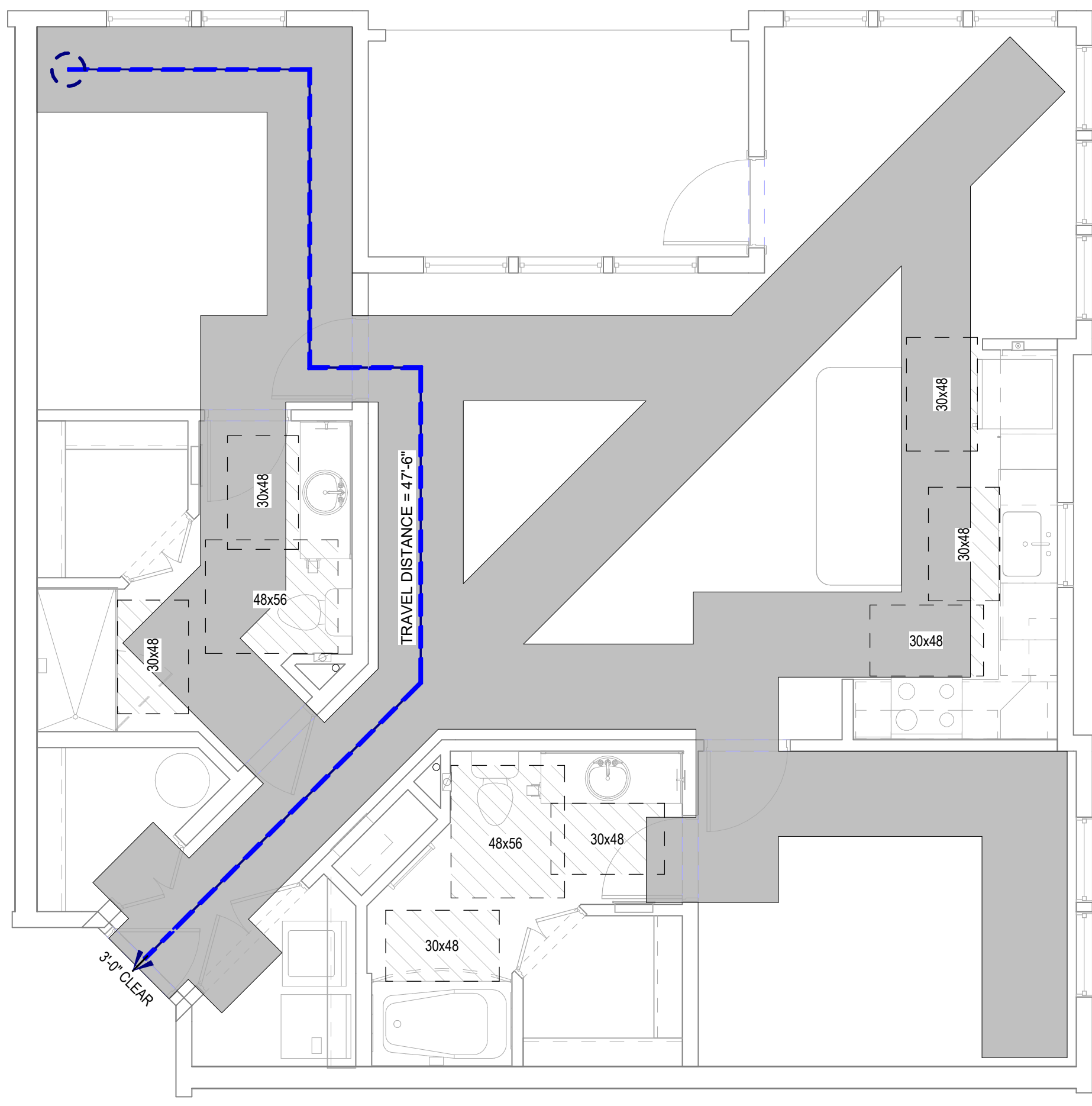
Drawn: MB
Checked: JK
Approval: MS
Date: 04/15/2022
Project #: 5722

LIFE SAFETY PLANS - BUILDING TYPE B

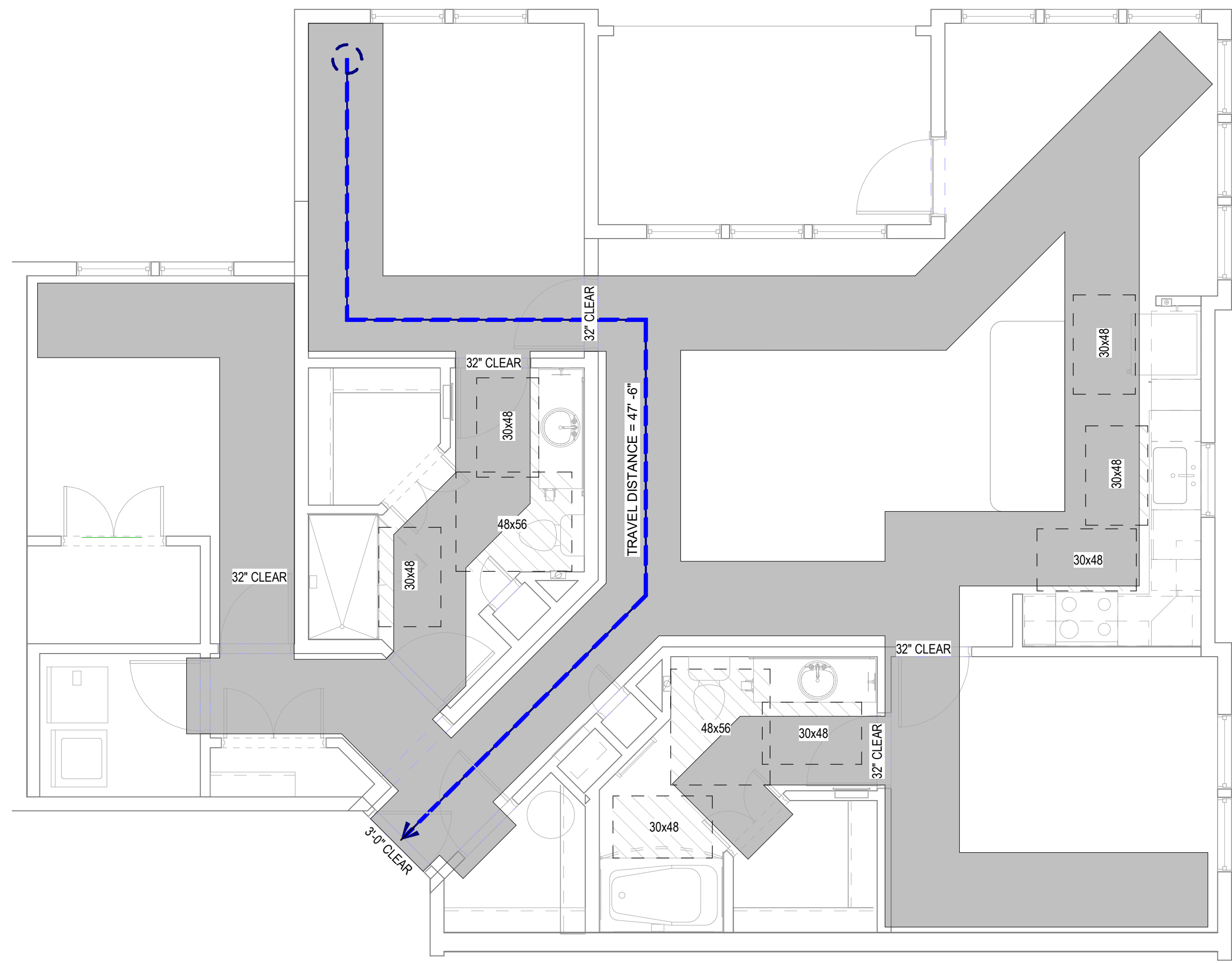
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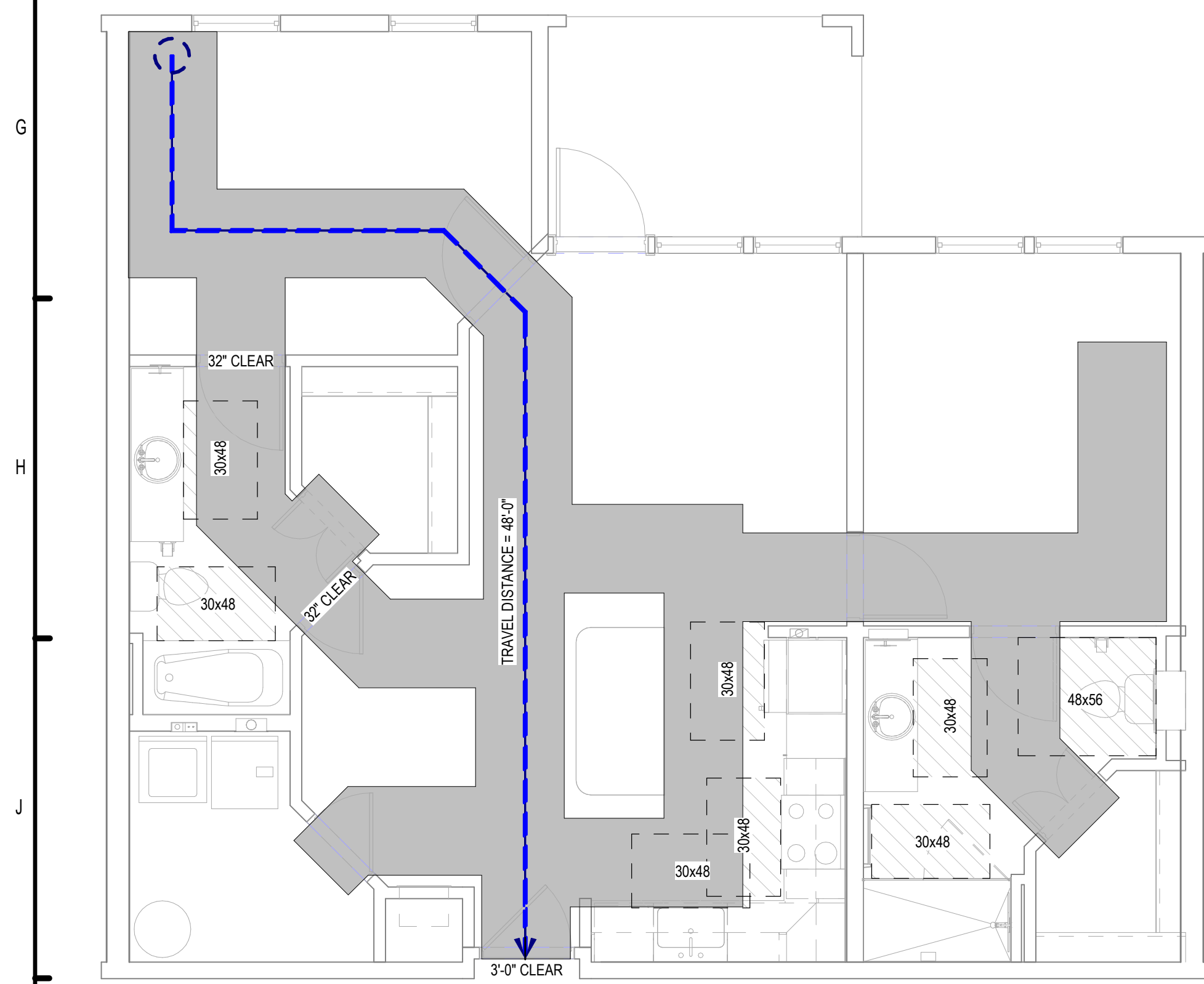
J1 UNIT 2BS -LIFE SAFETY PLAN
1/4" = 1'-0"



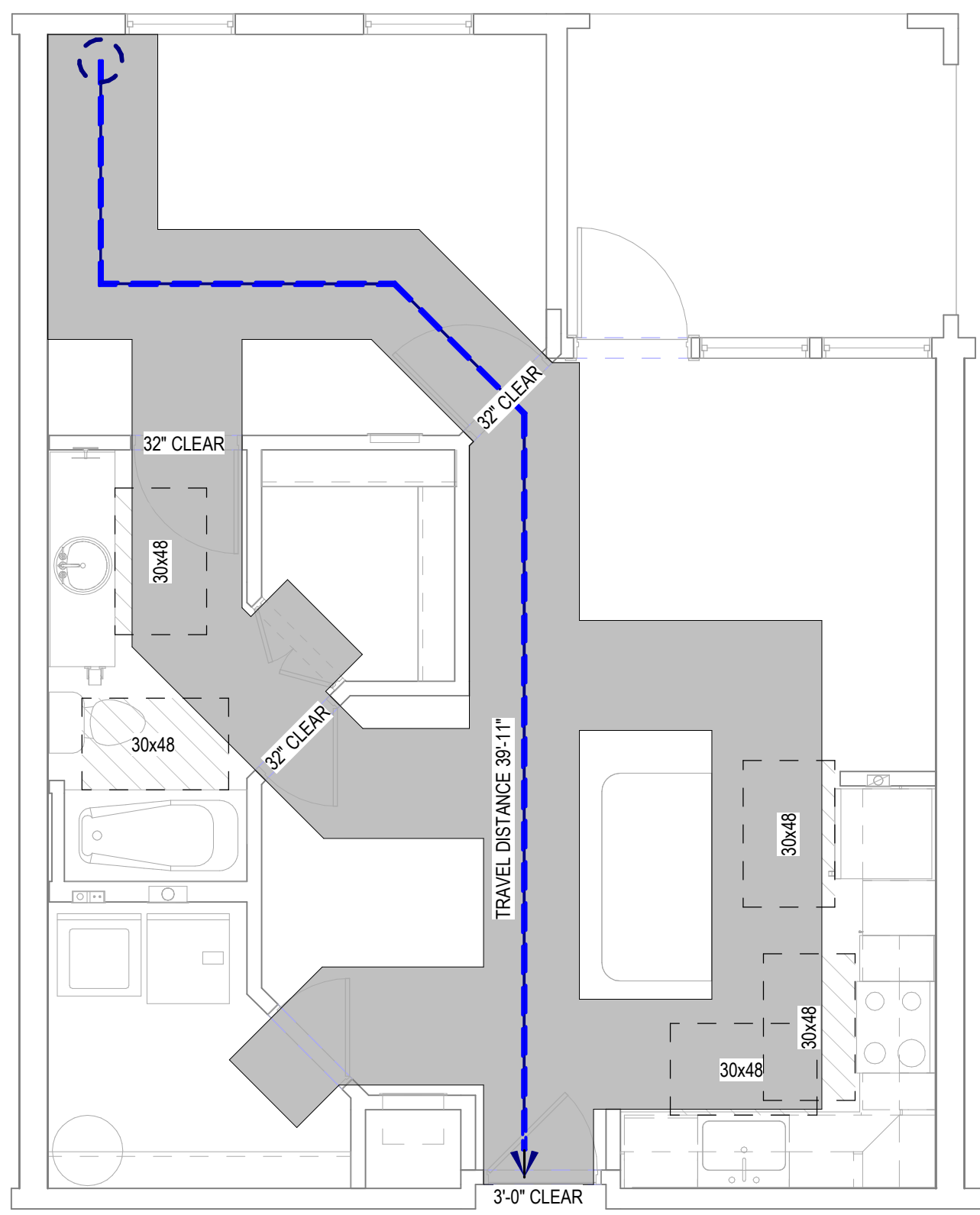
J2 UNIT 2C -LIFE SAFETY PLAN
1/4" = 1'-0"



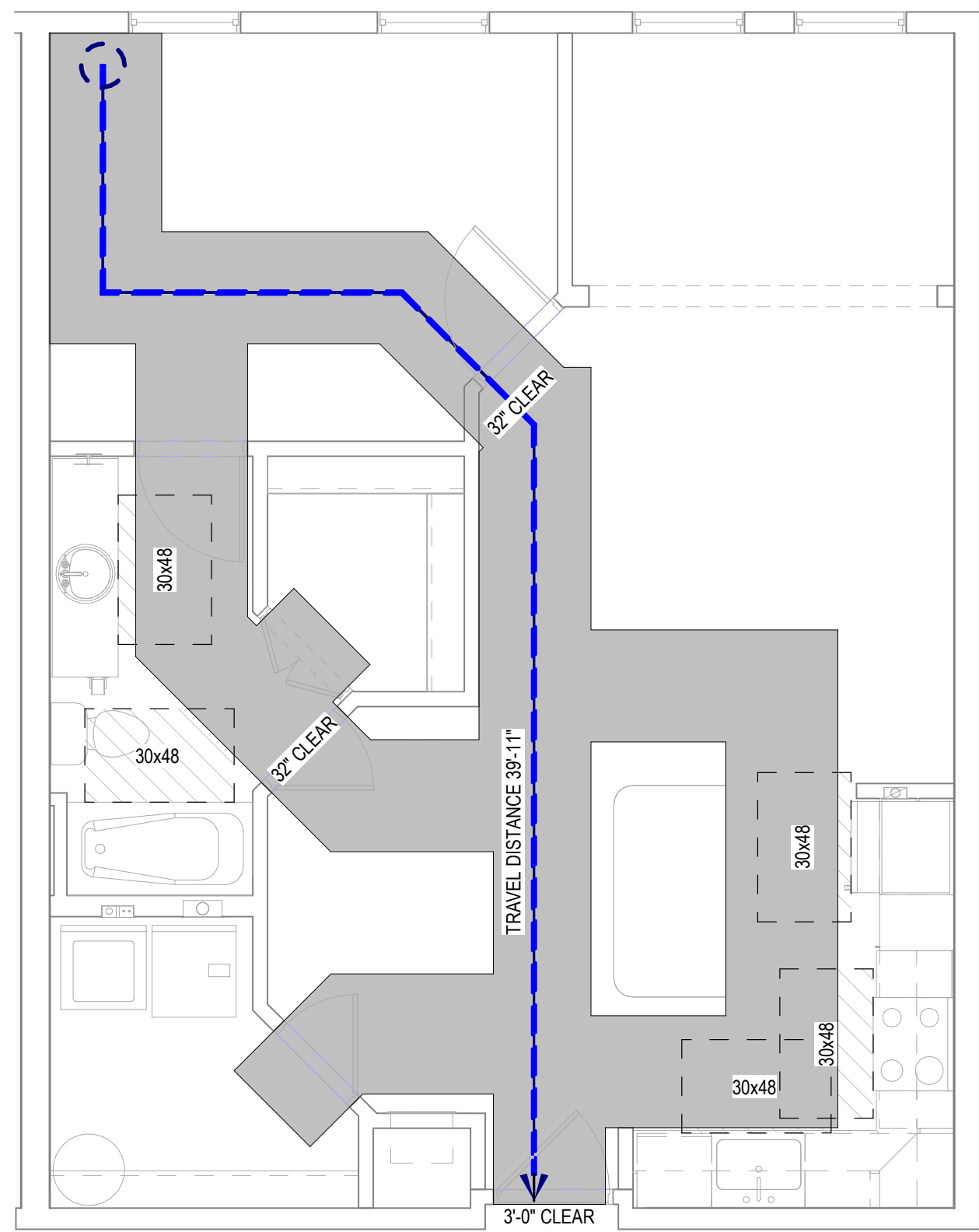
J3 UNIT 3C - LIFE SAFETY PLAN
1/4" = 1'-0"



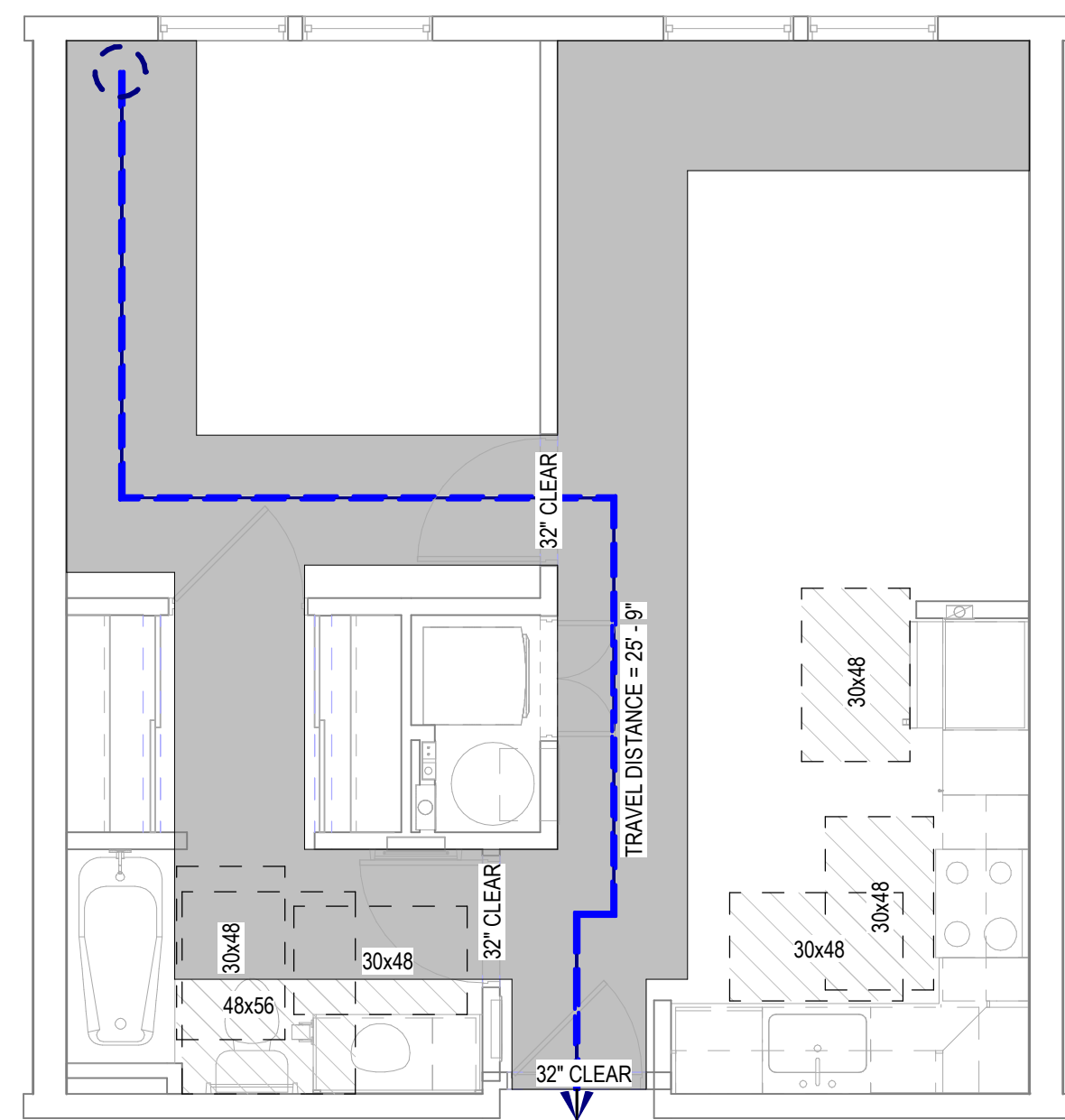
H1 UNIT 2B - LIFE SAFETY PLAN
1/4" = 1'-0"



H2 UNIT 1B - LIFE SAFETY PLAN
1/4" = 1'-0"



H3 UNIT 1Bs - LIFE SAFETY PLAN
1/4" = 1'-0"



H4 UNIT 1A - LIFE SAFETY PLAN
1/4" = 1'-0"

ISSUE HISTORY

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1	04/15/2022	PERMIT SUBMITTAL

REVISION HISTORY

No.	Date	Description
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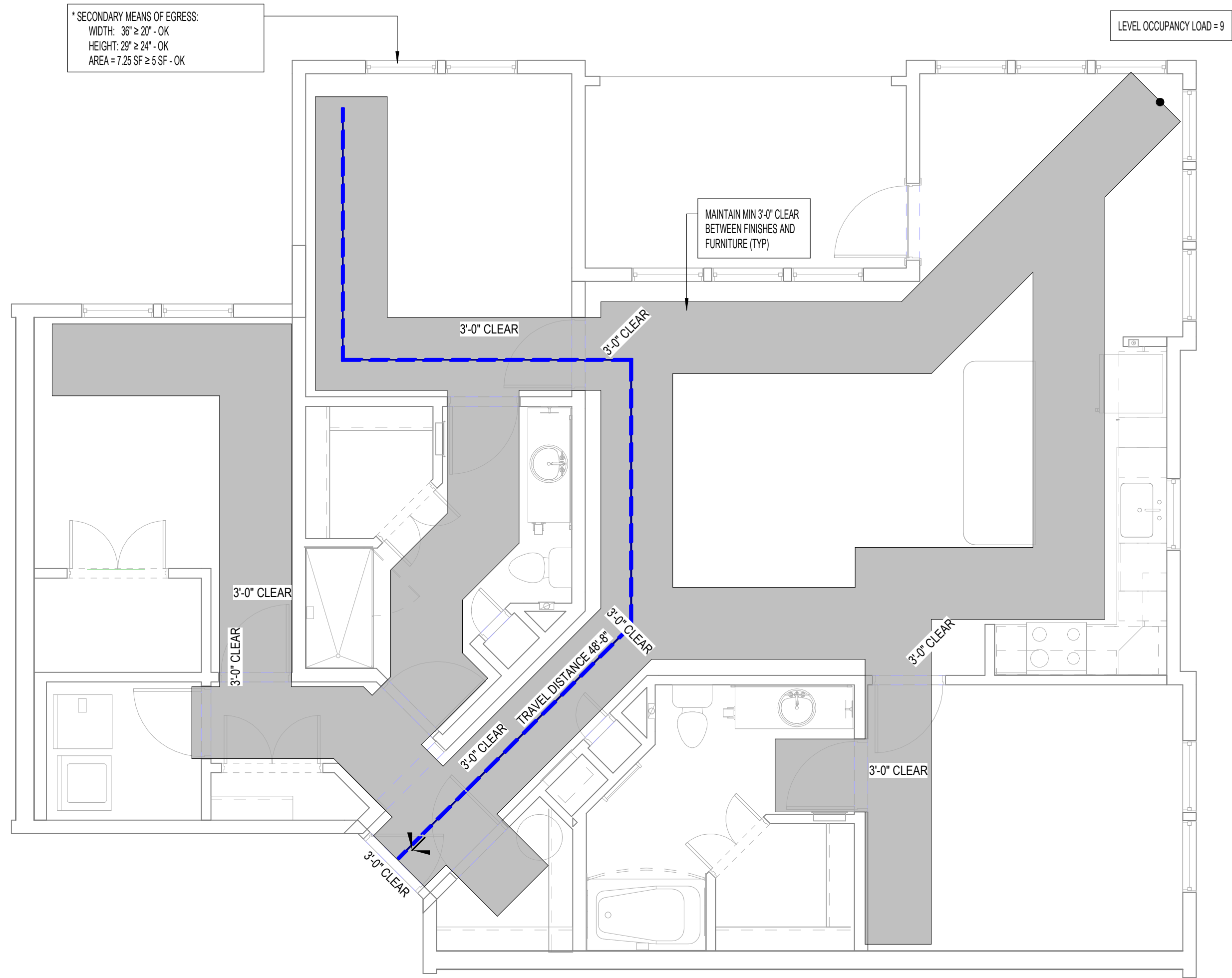


MICHAEL DOVE
8234

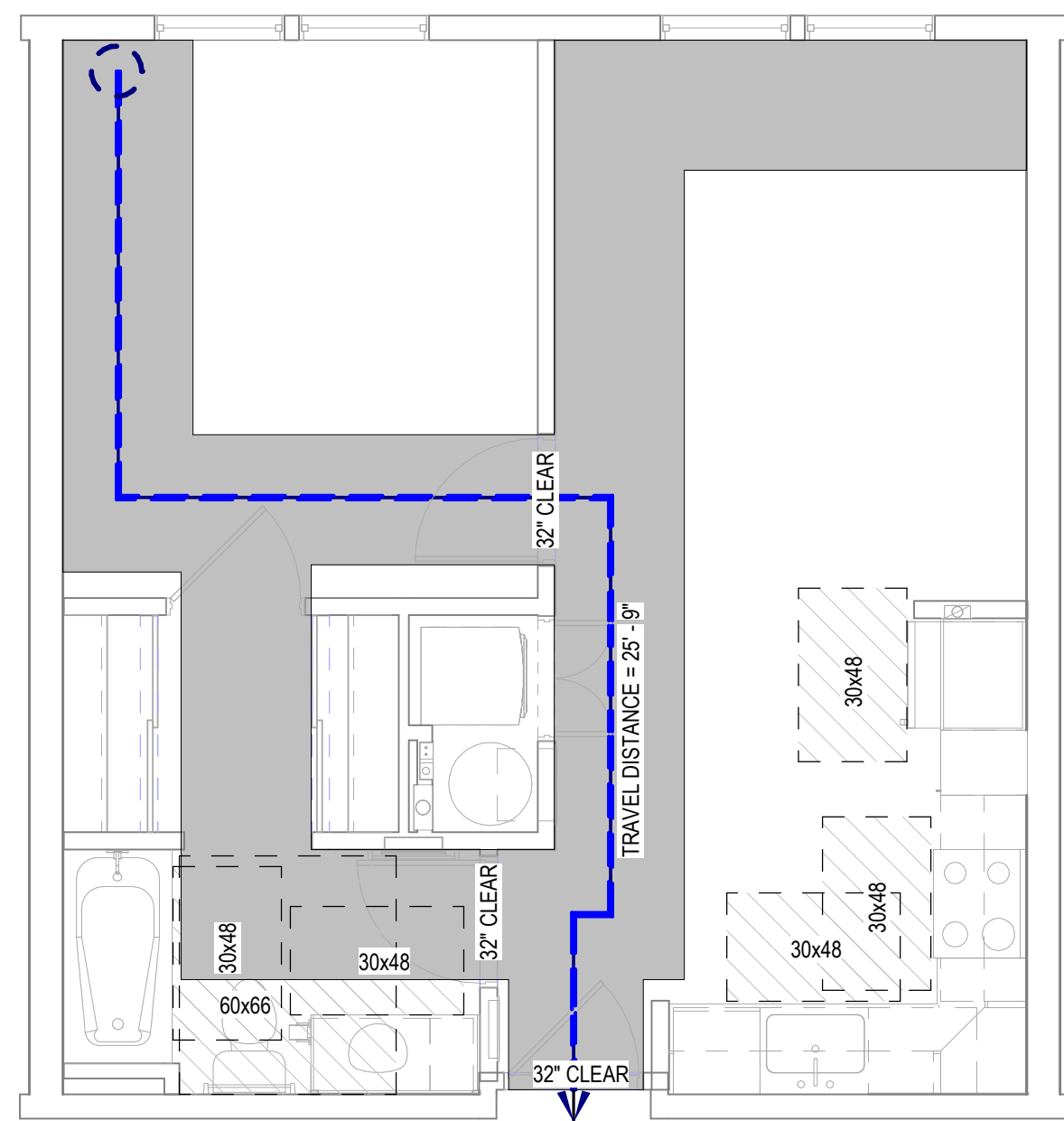
THE ROBERT
MADISON
MADISON, ALABAMA

LIFE SAFETY PLANS - UNIT
PLANS

A0.20



E1 UNIT 3C ANSI - LIFE SAFETY PLAN
1/4" = 1'-0"



J6 UNIT 1A ANSI - LIFE SAFETY PLAN
1/4" = 1'-0"

ISSUE HISTORY		
No.	Date	Description
1	04/15/2022	PERMIT SUBMITTAL
REVISION HISTORY		
No.	Date	Description



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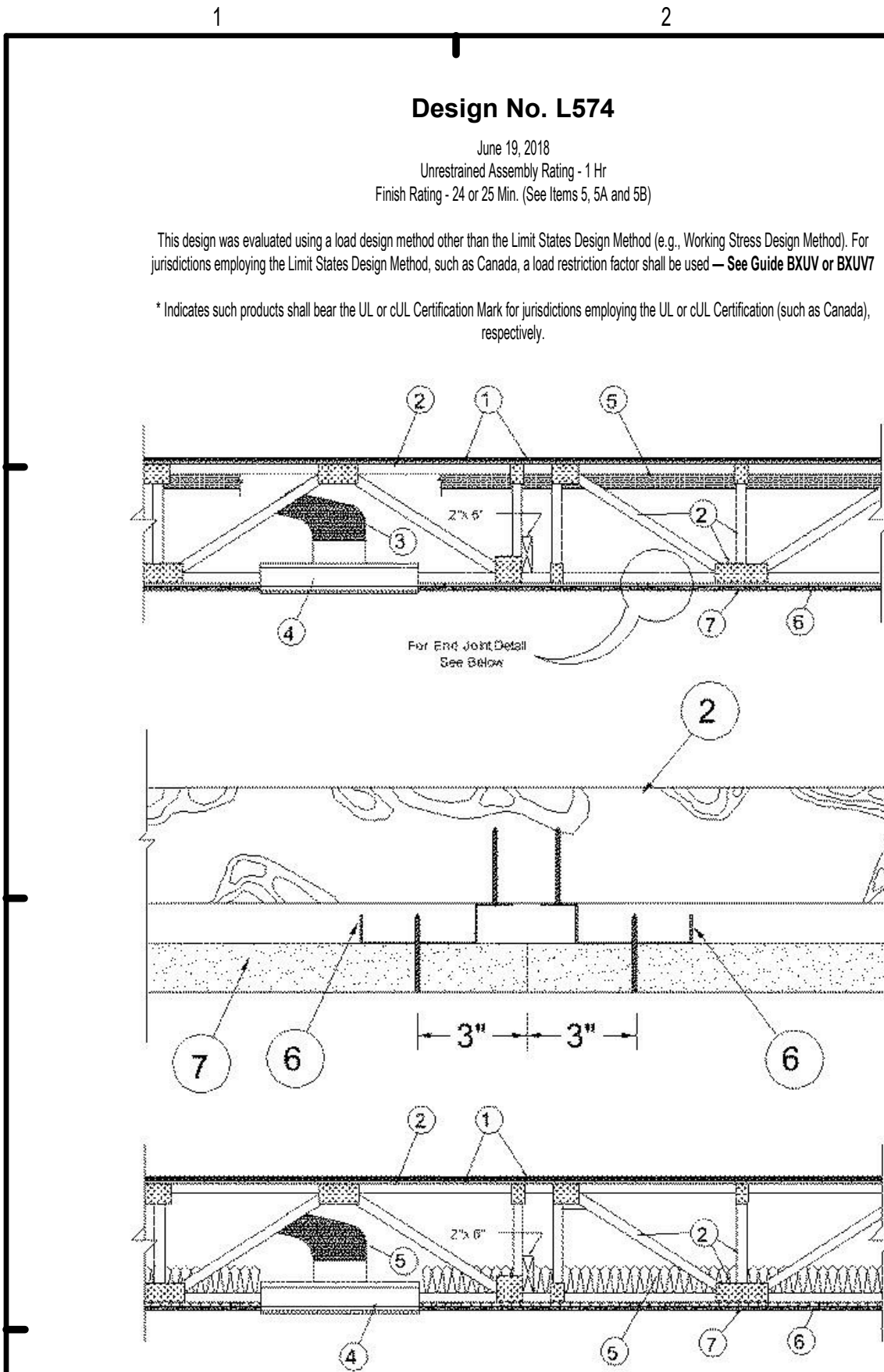


MICHAEL DOYE
8234

THE ROBERT MADISON	Drawn: MB
MADISON, ALABAMA	Checked: JK
	Approval: MS
	Date: 04/15/2022
	Project #: 572

LIFE SAFETY PLANS - UNIT
PLANS

A0.21

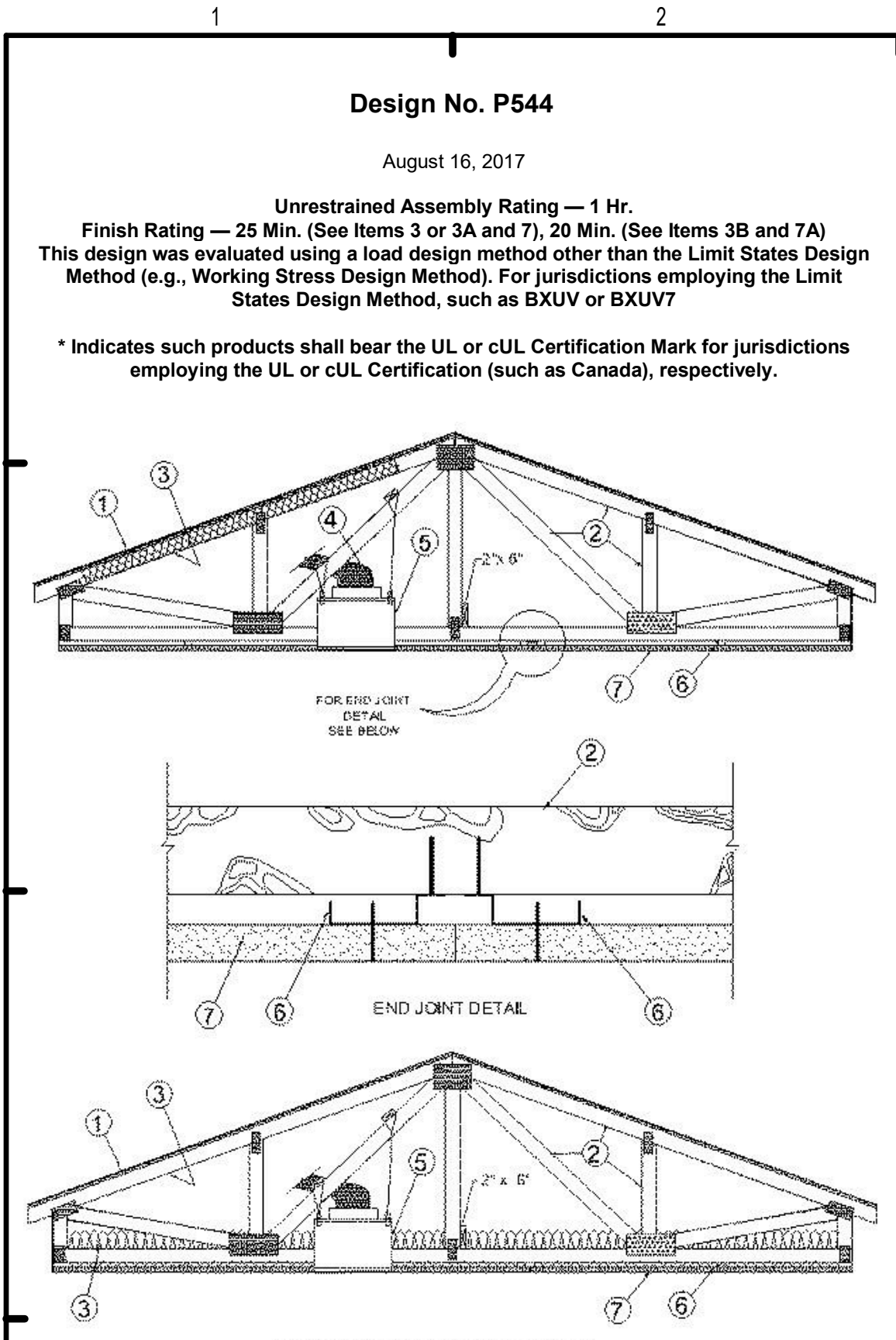


1. Floor Insulation — The following system is consistent of the following:

System No. 1
Subflooring — Min 23/32 in. thick plywood with T & G edges along the 8 ft sides and exterior gable or non-veneer APA Stud-Floor T & G panels per APA specifications PRP 108. Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered 4 ft. Plywood or panels secured to trusses with No. 6d ring shank nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
Vapor Barrier — (Optional) — Non 1.03 in. thick commercial asphalt saturated felt.
Finish Flooring — Min 1/4 in. T & G lumber balanced deeply to trusses, or non 1/32 in. plywood, min grade "Underlayment" or "Stud-Floor" with T & G edges and conforming with PSI-13 specifications, or non-veneer APA Stud-Floor T & G panels per APA specifications PRP 108. Face grain of plywood to be perpendicular to joists with joints staggered.

System No. 2
Subflooring — Min 23/32 in. thick 1/4 in. G wood structural panels installed perpendicular to trusses with joints staggered 4 ft. Plywood or non-veneer APA rated panels secured to trusses with corrosion adhesive and No. 6d ring shank nails spaced 12 in. OC along each truss. Res-GRP® nails measuring 2-5/8 in. long, 6/16 in. diameter, 0.272 in. round heads, and helically threaded steel or bolted fasteners on the hole meeting ASTM F1987 and having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
Vapor Barrier — (Optional) — Non 1.03 in. thick commercial asphalt saturated felt.
Finish Flooring — Floor "Flooring Material" — Min 3/4 in. thickness of floor topping material having a minimum compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific design.

RAPID FLOOR SYSTEMS — Types R7, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R81, R82, R83, R84, R85, R86, R87, R88, R89, R90, R91, R92, R93, R94, R95, R96, R97, R98, R99, R100, R101, R102, R103, R104, R105, R106, R107, R108, R109, R110, R111, R112, R113, R114, R115, R116, R117, R118, R119, R120, R121, R122, R123, R124, R125, R126, R127, R128, R129, R130, R131, R132, R133, R134, R135, R136, R137, R138, R139, R140, R141, R142, R143, R144, R145, R146, R147, R148, R149, R150, R151, R152, R153, R154, R155, R156, R157, R158, R159, R160, R161, R162, R163, R164, R165, R166, R167, R168, R169, R170, R171, R172, R173, R174, R175, R176, R177, R178, R179, R180, R181, R182, R183, R184, 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Design No. P544
August 16, 2017
Unrestrained Assembly Rating — 1 Hr.
Finish Rating — 25 Min. (See Items 3 or 3A and 7), 20 Min. (See Items 3B and 7A)
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as BXUV or BXUV7
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

1. Roofing System* — Any UL Class A, B or C Roofing System (TGFR) or Prepared Roof Covering (TFWZ) acceptable for use over nom 15/32 in. thick wood structural panels, min. grade "C-D" or "Sheathing". Nom 15/32 in. thick wood structural panels secured to trusses with construction adhesive and No. 6d ringed shank nails. Nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
2. Trusses — Pitch or Parallel chord trusses, spaced a max of 24 in. OC, fabricated from nom 2 by 4 lumber, with lumber oriented vertically or horizontally. Truss members secured together with 0.0356 in. thick galv steel plates. Plates have 5/16 in. long teeth projecting perpendicular to the plane of the plate. The teeth are in pairs facing each other (made by the same punch), forming a split tooth type plate. Each tooth has a chisel point on its outside edge. These points are diagonally opposite each other for each pair. The top half of each tooth has a twist for stiffness. The pairs are repeated on approximately 7/8 in. centers with four rows of teeth per inch of plate width. Where the truss intersects with the interior face of the exterior walls, the min truss depth shall be 5-1/4 in. with a min roof slope of 3/12 and a min. area in the plane of the truss of 21 sq ft. Where the truss intersects with the interior face of the exterior walls, the min truss depth may be reduced to 3 in. if the batts and blankets (Item 3) are used as shown in the above illustration (Alternate Insulation Placement) and are firmly packed against the intersection of the bottom chords and the plywood sheathing.
3. Batts and Blankets* — (Optional) — Glass fiber insulation, secured to the wood structural panels with staples spaced 12 in. OC or to the trusses with 0.090 in. diam galv steel wires spaced 12 in. OC. Any glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance, having a min density of 0.5 pcf. As an option, the insulation may be fitted in the concealed space, draped over the resilient channel/gypsum wallboard ceiling membrane when resilient channels and gypsum wallboard attachment is modified as specified in Items 6 and 7. The finished rating has only been determined when the insulation is secured to the decking.
3A. Cavity Insulation - Loose Fill Material* — (Not Shown) — As an alternate to Item 3 — Any thickness of loose fill material bearing the UL Classification Marking for Surface Burning Characteristics, having a min density of 0.5 pcf, fitted in the concealed space, draped over the resilient channel/gypsum wallboard ceiling membrane when resilient channels and gypsum wallboard attachment is modified as specified in Items 6 and 7. The finished rating when loose fill material is used has not been determined.
3B. Cavity Insulation - Batts and Blankets* or Loose Fill Material* — (Not Shown) — (As described above in Items 3 and 3A) — (For Use with Item 7A, Not Shown) — Min. 3-1/2 in thick with no limit on maximum thickness fitted in the concealed space, draped over the resilient channel (Item 6A)/gypsum board (Item 7A) ceiling membrane.
4. Air Duct* — Any UL Class 0 or Class 1 flexible air duct installed in accordance with the instructions provided by the damper manufacturer.
5. Ceiling Damper* — Maximum plenum box size nom. 19 in. long by 19 in. wide and 11-7/8 in. high fabricated from galvanized steel. Installed in accordance with the manufacturers installation instructions provided with the damper. Maximum damper openings not to exceed 128 sq. in. per 100 sq ft of ceiling area.
ARE TECHNOLOGIES INC — Models: CRD model 50 w/Boot, CRD model 50EA w/Boot, CRD model 55 w/Boot, CRD model 55 EA w/Boot.
LLOYD INDUSTRIES INC — Model CRD 50-BT, CRD 50-EA-BT, CRD 55-BT, CRD 55 EA-BT.
SA Ceiling Damper* — Maximum plenum box size nom. 13 in. long by 13 in. wide and 11-7/8 in. high fabricated from galvanized steel. Installed in accordance with the manufacturers installation instructions provided with the damper. Maximum damper openings not to exceed 50 sq. in. per 100 sq ft of ceiling area.
HEATING AND COOLING PRODUCTS — Models 272-1, 272-2
LLOYD INDUSTRIES INC — Model CRD 50-BT-6, CRD 50-EA-BT-6, CRD 55-BT-6, CRD 55 EA-BT-6, CRD50-X-BT-6.
5B. Ceiling Damper* — Maximum size ceiling outlet in plenum box nom. 12 in. long by 12 in. wide. Plenum box fabricated from galvanized steel. Installed in accordance with the manufacturers installation instructions provided with the damper. Maximum damper openings not to exceed 72 sq. in. per 100 sq ft of ceiling area.
ARE TECHNOLOGIES INC — Models: CRD model 50 w/Boot, CRD model 50EA w/Boot, CRD model 55 w/Boot, CRD model 55 EA w/Boot.
LLOYD INDUSTRIES INC — Model CRD 50-95BT, CRD 50-EA-95BT, CRD 55-95BT, CRD 55 EA-95BT.
5C. Alternate Ceiling Damper* — (Optional) — For use with min 18 in. deep trusses. Max size ceiling outlet in plenum box nom 16 in. long by 16 in. wide. Aggregate damper openings shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.
CROWN PRODUCTS CO INC — Models CRD50-FGPB-4.2-CP, -6.0-CP; CRD50-FGPB-4.2-EA-CP, -6.0-EA-CP
LLOYD INDUSTRIES INC — Models CRD 50-FGPB-4.2, -4.2 NI, -6.0, -6.0 NI; CRD50-EA-FGPB-4.2, -4.2 NI, -6.0, -6.0 NI
5D. Ceiling Damper* — (Optional) — For use with min 18 in. deep trusses Max plenum box size nom 15 in. long by 15 in. wide and 11-7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 72 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.
LLOYD INDUSTRIES INC — Models 45-CRD-LT-BT and 45-CRD-LT-BT.
5E. Ceiling Damper* — (Optional) — For use with min 18 in. deep trusses Max size ceiling outlet in plenum box nom 10 in. long by 10 in. wide. Plenum box fabricated from galv steel. Aggregate damper openings shall not exceed 50 sq in. per 100 sq ft of ceiling area. Installed in accordance with the manufacturers installation instructions provided with the damper.
LLOYD INDUSTRIES INC — Model 45-LTD-95-BT-4.
5F. Alternate Ceiling Damper* — For use with min 18 in. deep trusses Max plenum box size nom 19 in. long by 15 in. wide and 11-7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 96 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.
LLOYD INDUSTRIES INC — Model CRD50-X-BT

5G. Alternate Ceiling Damper* — For use with min. 18 in. deep trusses. Max. nom area shall be 348 sq in. Max. overall length and width shall not exceed 18-1/16 in. by 18-1/16 in. with max. 16 in. by 16 in. register opening. Aggregate damper openings shall not exceed 175 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. An aluminum or steel grille (Item 9) shall be installed in accordance with installation instructions.
MIAMI TECH INC — Model Series RxCRD, RxCRRS or RxCRRP
5H. Alternate Ceiling Damper* — For use with min. 18 in. deep trusses Max plenum box size nom 19 in. long by 19 in. wide and 11-7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.
METAL-FAB INC — Models MSCD-HC and MRCD-HC
6. Resilient Channels — Resilient channels formed of 25 MSG thick galv steel, spaced 16 in. OC, installed perpendicular to trusses. When batt and blanket material, Item 3, is draped over the resilient channel/gypsum wallboard ceiling membrane, the spacing shall be 12 in. OC. Channels secured to each truss with 1-1/4 in. long Type S steel screws. Channels overlapped 4 in. at splices. Channels oriented opposite at wallboard butt joints (spaced 6 in. OC) as shown in the above illustration.
6A. Resilient Channels - (Not Shown) — For Use With Item 7A - Formed from min 25 MSG galv steel installed perpendicular to trusses and spaced 16 in. OC. Channels secured to each truss with 1-5/8 in. long Type S bugle head steel screws. Channels overlapped 4 in. at splices. Two channels, spaced 6 in. OC, oriented opposite each gypsum panel end joint. Additional channels shall extend min 6 in. beyond each side edge of panel. Insulation, Items 3A or 3B, is applied over the resilient channel/gypsum panel (Item 7A) ceiling membrane.
7. Gypsum Board* — Nom 5/8 in. thick, 48 in. wide, installed with long dimension perpendicular to resilient channels with 1 in. long Type S screws spaced 12 in. OC and located a min of 3/4 in. from side joints and 3 in. from the end joints. At end joints, two resilient channels are used, extending a min of 6 in. beyond both ends of the joint. When batt and blanket insulation, Item 3, is draped over the resilient channel/gypsum wallboard ceiling membrane, screws shall be installed at 8 in. OC.
AMERICAN GYPSUM CO — Type AG-C
CGC INC — Types C, IP-X2, IPC-AR
CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC-C/A
NATIONAL GYPSUM CO — Types eIP-C, FSW-G, FSW-C, FSK-G, FSK-C
UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR
USG BORAL DRYWALL SFZ LLC — Type C
USG MEXICO S A DE CV — Types C, IP-X2, IPC-AR
7A. Gypsum Board* - (Not Shown) — For use with Items 3A or 3B and 6A. Nom 5/8 in. thick, 48 in. wide gypsum panels installed with long dimension perpendicular to resilient channels. Gypsum panels secured with 1 in. long Type S bugle head steel screws spaced 8 in. OC and located a min of 1/2 in. from side joints and 3 in. from the end joints. Finish Rating with this ceiling system is 20 min.
UNITED STATES GYPSUM CO — Type ULIX.
8. Finishing System — (Not Shown) — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum wallboard.
9. Grille — Aluminum or Steel grille, installed in accordance with the installation instructions provided with the ceiling damper.
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

C3 UL P544
NTS
Last Updated on 2017-08-16

ROOF-CEILING SYSTEMS

GA FILE NO. RC 2751	GENERIC	2 HOUR FIRE
WOOD ROOF TRUSSES, GYPSUM WALLBOARD, RIGID FURRING CHANNELS		
Base layer 5/8" type X gypsum wallboard applied at right angles to wood roof trusses 24" o.c. with 1 1/4" Type W drywall screws 12" o.c. Second layer 5/8" type X gypsum wallboard applied at right angles to trusses with 2" Type W drywall screws 12" o.c. Second layer joints offset 24" from base layer joints. Third layer 5/8" type X gypsum wallboard applied at right angles to trusses with 2 1/2" Type W drywall screws 12" o.c. Third layer joints offset 12" from second layer joints. Hat-shaped rigid furring channels 24" o.c. applied at right angles to trusses over third layer with two 2 1/2" long Type W drywall screws at each truss. Face layer 5/8" type X gypsum wallboard applied at right angles to furring channels with 1 1/8" Type S drywall screws 12" o.c. Wood trusses supporting 3/4" T & G edge wood structural panels applied at right angles to trusses with 8d nails 6" o.c. at joints and 12" at intermediate l-joints. Appropriate roof covering. Ceiling provides two-hour fire-resistance protection for wood framing.		
Approx. Ceiling Weight:	12 psf	
Fire Test:	UL R4024, 00NK26545, 4-27-01, UL Design L556	

F1 RC 2751
12" x 1'-0"

ISSUE HISTORY		
No.	Date	Description
1	04/15/2022	PERMIT SUBMITTAL

REVISION HISTORY		
No.	Date	Description

FUGLEBERG KOCH

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CONSULTANT

MICHAEL DOYE
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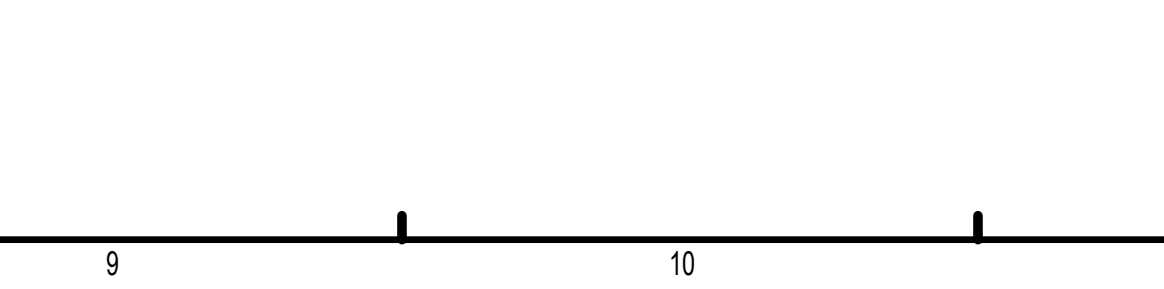
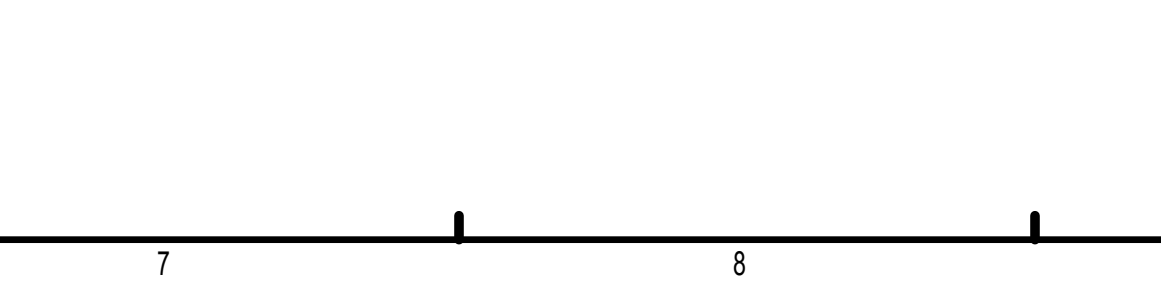
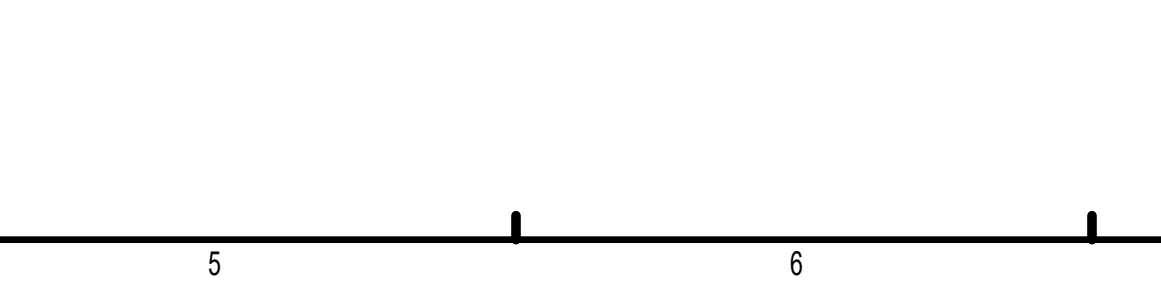
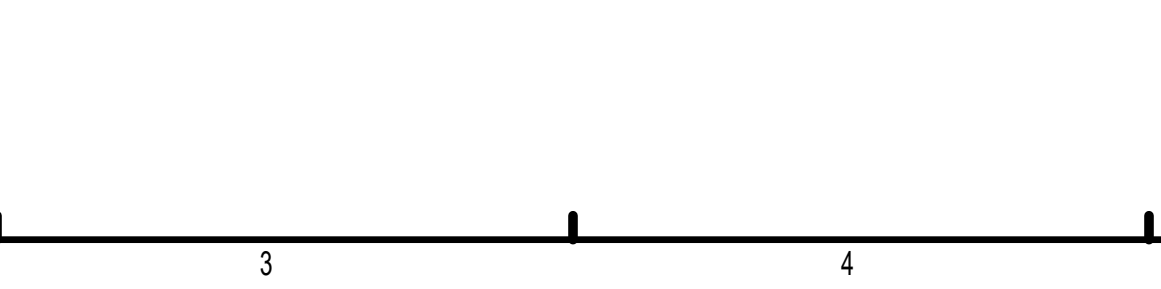
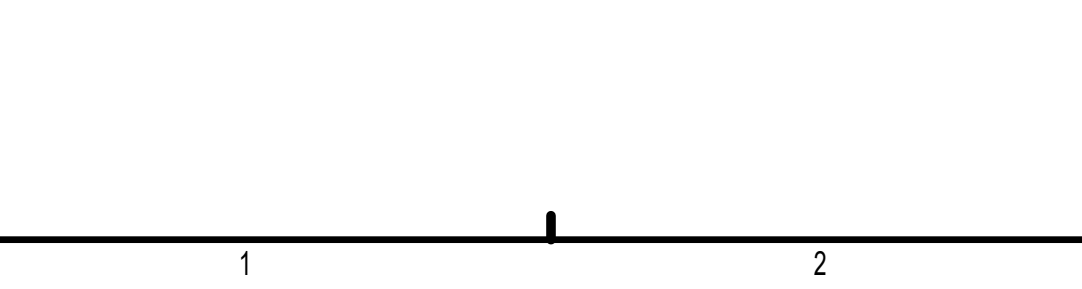
THE ROBERT MADISON	
MADISON, ALABAMA	
Drawn	MB
Checked	JK
Approved	MS
Date	04/15/2022
Project #	5722

UL REFERENCE
DIRECTORY ROOF SYSTEM

A0.35

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PLOTTED: 6/30/2022 3:18:34 PM



A0.36

The Roberts Apartments at Town Madison

Address:
Dunlop Blvd

Prepared for:

Plan Set Date:

1. The locations of existing utilities are shown in as approximate only. The Contractor shall verify the exact location of all existing utilities before commencing work. Contractor shall be fully responsible for any and all damages which might occur by his failure to exactly locate and preserve any and all utilities.
2. Contractor is responsible for making application and paying for necessary permits.
3. The Contractor shall prevent the destruction of all survey monuments, bench marks, property corners and all other survey points. Where the removal of such points are necessary for the accomplishment of the work, the Contractor shall inform the Engineer in writing, prior to the disturbance of any point, and shall not disturb the point until written permission to do so has been issued by the Engineer.
4. All existing trees outside of the limits of work shall be protected during the accomplishment of the work, and are not to be damaged in any manner.
5. All boulders, debris, excess construction materials, material generated from demolition of existing structures and facilities or trash shall be removed from site at contractor's expense.
6. Pavement cuts shall be repaired with material in-kind to that removed.
7. In accordance with generally accepted construction practices, the contractor is solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the work. This requirement applies continuously and shall not be limited to normal working hours.
8. Contractor shall provide adequate traffic control devices and safety measures for construction work within public right-of-ways in accordance with the Manual on Uniform Traffic Control Devices for Streets and Highways.
9. The duty of the Engineer to conduct construction observation of the contractor's performance is not intended to include review of the adequacy of the Contractor's safety measures, in, on or near the construction site.
10. The Contractor shall be responsible for cleaning dirt and debris from the adjoining streets parking lots, and drives during construction. Any damage to adjoining and existing facilities shall be repaired by the Contractor, at no additional cost to the owner, during the construction of this site.
11. No fill dirt shall be placed on the property that might interfere with drainage flow from adjacent property. Storm drainage system shall be installed prior to fill material being placed.
12. The Contractor shall be totally responsible for TVI, vacuum testing manholes, and air testing sewer lines if required.
13. No changes shall be made to these approved plans without the Engineer of Record being notified before changes are made and the Engineer of Record acquiring approval from the City Engineer.
14. All sanitary sewer pipe shall either be SDR 26 PVC or Class 350 Ductile Iron.
15. The City of Madison Construction Specifications Manual for Public Improvements, latest edition and any revision thereof, are hereby made part of these plans.
16. If approval from any State or Federal Regulatory Agency is required to perform work on this project, a copy of each permit required shall be delivered to the City of Madison Engineering Department prior to the approval of said plans.
17. The Alabama Handbook for Erosion Control, Sediment Control and Stormwater Management on Construction Sites and Urban Areas, Vol. 1 and 2, latest edition and any revision thereof, are hereby made a part of these plans.
18. Contractor is required to schedule a Pre-Construction meeting with Engineering Inspector before commencement of work. Call 256-797-8025 for scheduling or go to www.madisonal.gov/index.aspx?NID=126 (pre-construction requirements) for more information.
19. Call 811 prior to any digging for Utility work.

[illegible]

Not to Scale

The undersigned, as a duly authorized representative of the Madison Fire Department, City of Madison, AL, certifies the within site plan has been reviewed and approved.

The undersigned, as a duly authorized representative of the Madison Fire Department, City of Madison, AL, certifies the within site plan has been reviewed and approved.

By: 

Date: 12-7-21

The undersigned, as representative of the City Council of Madison, Alabama, hereby certified that the property and site plan has been approved by the City Council

The undersigned, as representative of the City Council of Madison, Alabama, hereby certified that the property and site plan has been approved by the City Council

By: _____

Date: 12-7-21

The undersigned, as City Engineer of the City of Madison, AL,
hereby approves the within site plan.

The undersigned, as City Engineer of the City of Madison, AL,
hereby approves the within site plan.

By: E. Michelle Denson

Date: December 3 2021

The undersigned, as Director of Planning for the City of Madison, AL, hereby certifies that the property and site plan has been inspected, reviewed, and found to be compliant with the City's Zoning Ordinance and Subdivision Regulations.

The undersigned, as Director of Planning for the City of Madison, AL, hereby certifies that the property and site plan has been inspected, reviewed, and found to be compliant with the City's Zoning Ordinance and Subdivision Regulations.

By: [Signature]

Date: 12/9/2021

Submitted for approval

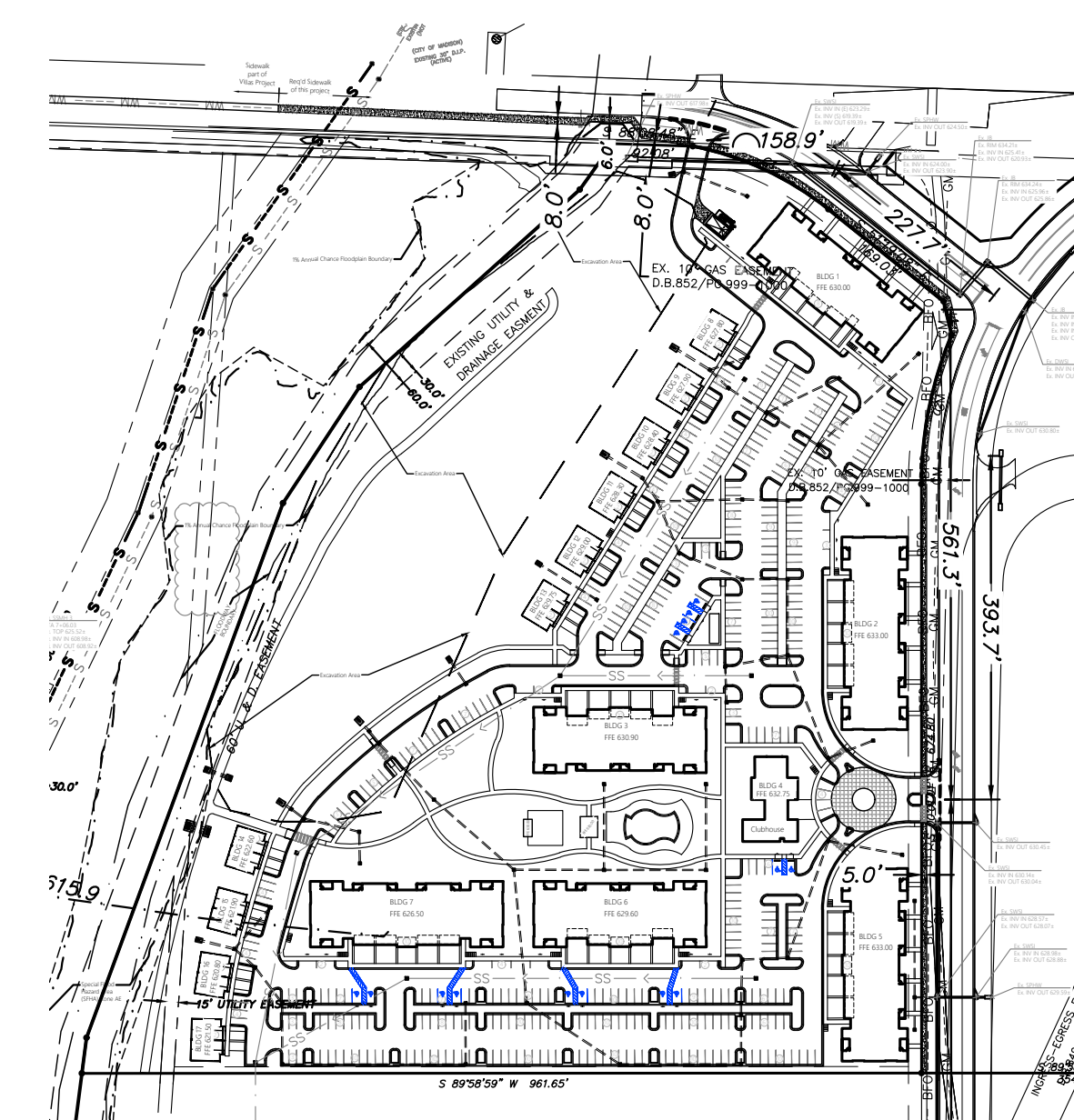
Submitted for approval

APPROVED:

[Signature]

Ernest D. Bond

NOTE: CONSTRUCTION SPECIFICATIONS FOR WATER AND SANITARY SEWER LATEST EDITION AS ADOPTED BY MADISON UTILITIES (MU), IS HEREBY MADE PART OF THESE PLANS. CONTRACTOR SHALL CONTACT MU TO SCHEDULE A PRE-CONSTRUCTION MEETING PRIOR TO THE START OF ANY WATER OR SEWER CONSTRUCTION.



FINAL FOR
DEVELOPMENT

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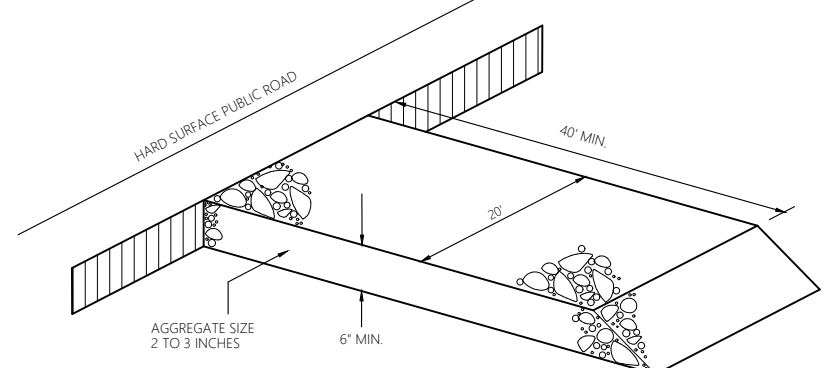
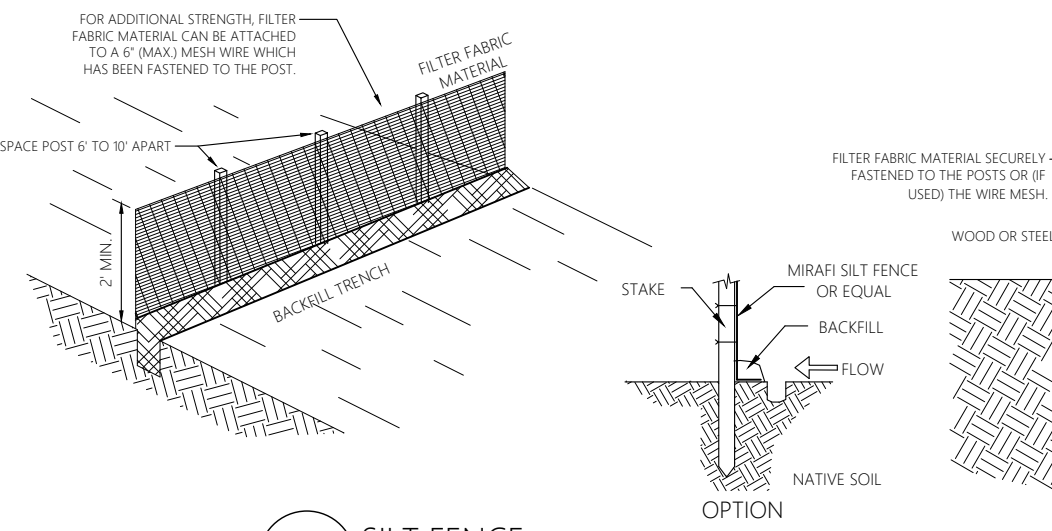
Overall View

Scale: 1" = 200'

Prepared by:

MULLINS, LLC
CIVIL ENGINEERING, DEVELOPMENT DESIGN
SURVEYING, LANDSCAPE ARCHITECTURE
2101 West Clinton Avenue, Suite 503, Huntsville, AL 35805
(256) 690-5312

LIME QUARRY ROAD



I, CHARLES MIKE FRANKLIN, THE SURVEYOR OF RECORD, CERTIFY THAT THE SUBDIVISION SHOWN HEREON LIES WITHIN FLOOD HAZARD AREAS "X" & "AE" AS SHOWN ON THE FEDERAL INSURANCE ADMINISTRATION'S FLOOD INSURANCE RATE MAPS FOR THE CITY OF HUNTSVILLE, ALABAMA.

FIRM PANEL # 010800311F (EFFECTIVE DATE 8/16/2018)
(AMENDED BY LOUR-F 19-04-3126 P EFFECTIVE DATE 10/13/2020)

CHARLES MIKE FRANKLIN, PLS
AL REG. NO. 18980



Demolition Notes: (this sheet only)

- CONTRACTOR SHALL LOCATE, MAINTAIN & PROTECT EX. UTILITIES ON SITE. ANY DAMAGE TO SUCH SHALL BE REPAIRED AND/OR REPLACE AT NO EXPENSE TO THE OWNER.
- ALL EXISTING TREES WITHIN THE GRADING LIMITS ARE TO BE REMOVED.

Demolition Keynote Legend: (this sheet only)

- Req'd sawcut, full depth, ex. curb & gutter, sidewalk, and/or asphalt, at this point.
- Req'd demo & remove ex. curb & gutter, sidewalk, and/or asphalt, this area.
- Req'd silt fence, length as shown, coord. w/ Erosion Control Plan, see detail.
- Req'd Gravel Construction Entrance, coord. w/ Erosion Control Plan, see detail.
- Req'd rework, coord w/ Utility Plan.

Existing Conditions & Demo Plan
Scale: 1" = 50'

LOT 2

LOT 4

DUNLOP BOULEVARD

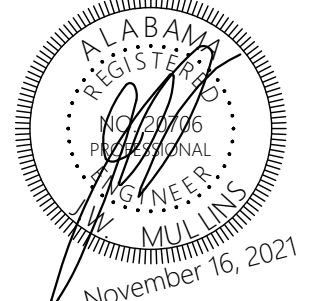
FINAL FOR DEVELOPMENT

REVISIONS

DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
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The Roberts Apartments at TM
Madison, AL

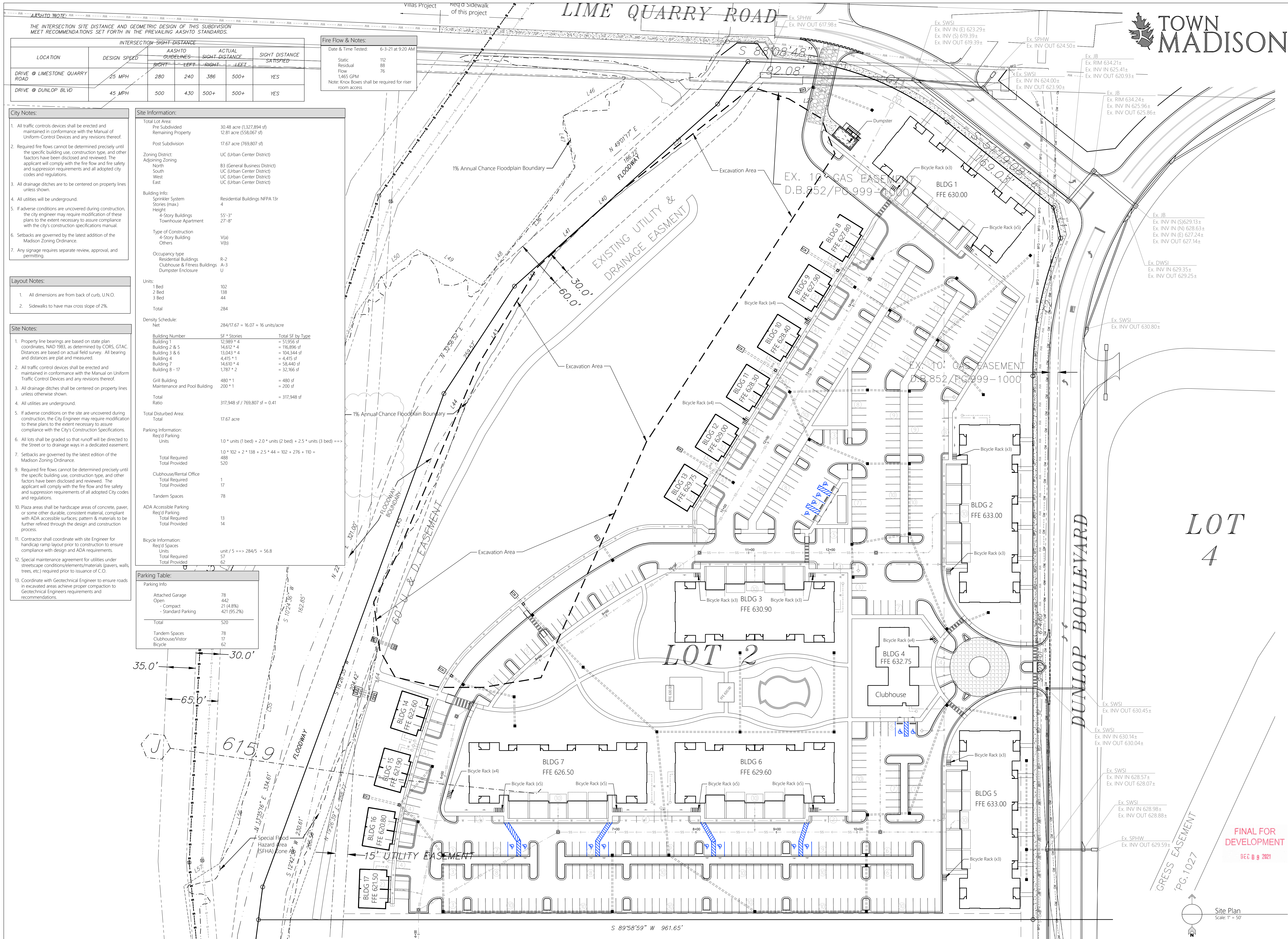
PREPARED FOR: Rohdie Group

Existing Conditions
&
Demolition Plan

Job No: 21-128
Date: 2021 11-16
Drawn By: JLH
Checked By: RS

SHEET NUMBER

C1



INTERSECTION-SIGHT-DISTANCE					
LOCATION	DESIGN SPEED	AASHTO GUIDELINES		ACTUAL SIGHT DISTANCE	SATISFIED
		RIGHT	LEFT		
DRIVE @ LIMESTONE QUARRY ROAD	25 MPH	280	240	386	500+
DRIVE @ DUNLOP BLVD	45 MPH	500	430	500+	500+

- City Notes:
- All traffic control devices shall be erected and maintained in conformance with the Manual of Uniform-Control Devices and any revisions thereof.
 - Required fire flows cannot be determined precisely until the specific building use, construction type, and other factors have been disclosed and reviewed. The applicant will comply with the fire flow and fire safety and suppression requirements and all adopted city codes and regulations.
 - All drainage ditches are to be centered on property lines unless shown.
 - All utilities will be underground.
 - If adverse conditions are uncovered during construction, the city engineer may require modification of these plans to the extent necessary to assure compliance with the city's construction specifications manual.
 - Setbacks are governed by the latest addition of the Madison Zoning Ordinance.
 - Any signage requires separate review, approval, and permitting.

- Layout Notes:
- All dimensions are from back of curb, U.N.O.
 - Sidewalks to have max cross slope of 2%.

- Site Notes:
- Property line bearings are based on state plan coordinates, NAD 1983, as determined by CORS, GTAC. Distances are based on actual field survey. All bearing and distances are plat and measured.
 - All traffic control devices shall be erected and maintained in conformance with the Manual on Uniform Traffic Control Devices and any revisions thereof.
 - All drainage ditches shall be centered on property lines unless otherwise shown.
 - All utilities are underground.
 - If adverse conditions on the site are uncovered during construction, the City Engineer may require modification to these plans to the extent necessary to assure compliance with the City's Construction Specifications.
 - All lots shall be graded so that runoff will be directed to the Street or to drainage ways in a dedicated easement.
 - Setbacks are governed by the latest edition of the Madison Zoning Ordinance.
 - Required fire flows cannot be determined precisely until the specific building use, construction type, and other factors have been disclosed and reviewed. The applicant will comply with the fire flow and fire safety and suppression requirements of all adopted City codes and regulations.
 - Plaza areas shall be hardscape areas of concrete, paver, or some other durable, consistent material, compliant with ADA accessible surfaces, pattern & materials to be further refined through the design and construction process.
 - Contractor shall coordinate with site Engineer for handicap ramp layout prior to construction to ensure compliance with design and ADA requirements.
 - Special maintenance agreement for utilities under streetscape conditions/elements/materials (pavers, walls, trees, etc.) required prior to issuance of C.O.
 - Coordinate with Geotechnical Engineer to ensure roads in excavated areas achieve proper compaction to Geotechnical Engineers requirements and recommendations.

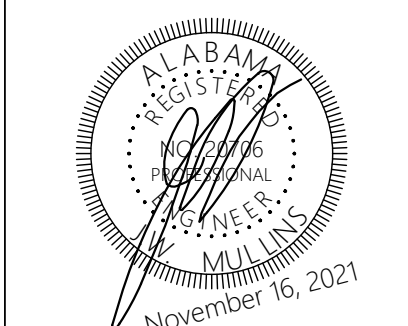
Site Information:		
Total Lot Area:	Pre Subdivided	30.48 acre (1,327,894 sf)
	Remaining Property	12.81 acre (558,067 sf)
	Post Subdivision	17.67 acre (769,807 sf)
Zoning District:	UC (Urban Center District)	
Adjoining Zoning:	B3 (General Business District)	
North	UC (Urban Center District)	
South	UC (Urban Center District)	
West	UC (Urban Center District)	
East	UC (Urban Center District)	
Building Info:	Residential Buildings NFPA 13r	
Sprinkler System	4	
Stories (max)	4	
Height	55'-3"	
4-Story Buildings	27'-8"	
Townhouse Apartment		
Type of Construction	V(a)	
4-Story Building	V(b)	
Others		
Occupancy type	R-2	
Residential Buildings	A-3	
Clubhouse & Fitness Buildings	U	
Dumpster Enclosure		
Units:		
1 Bed	102	
2 Bed	138	
3 Bed	44	
Total	284	
Density Schedule:	284/17.67 = 16.07 = 16 units/acre	
Net		
Building Number	SF * Stories	Total SF by Type
Building 1	12,989 * 4	= 51,956 sf
Building 2 & 5	14,612 * 4	= 116,896 sf
Building 3 & 6	13,043 * 4	= 104,344 sf
Building 4	4,415 * 1	= 4,415 sf
Building 7	14,610 * 4	= 58,440 sf
Building 8 - 17	1,787 * 2	= 32,166 sf
Grill Building	480 * 1	= 480 sf
Maintenance and Pool Building	200 * 1	= 200 sf
Total		= 317,948 sf
Ratio		= 317,948 sf
Total Disturbed Area:		
Total	17.67 acre	
Parking Information:		
Req'd Parking Units	1.0 * units (1 bed) + 2.0 * units (2 bed) + 2.5 * units (3 bed) ==>	
	1.0 * 102 + 2 * 138 + 2.5 * 44 = 102 + 276 + 110 =	
Total Required	488	
Total Provided	520	
Clubhouse/Rental Office	1	
Total Required	17	
Total Provided	78	
Tandem Spaces		
ADA Accessible Parking		
Req'd Parking	13	
Total Required	14	
Total Provided		
Bicycle Information:		
Req'd Spaces	unit / 5 ==> 284/5 = 56.8	
Units	57	
Total Required	62	
Total Provided		
Parking Table:		
Parking Info		
Attached Garage	78	
Open	442	
- Compact	21 (4.8%)	
- Standard Parking	421 (95.2%)	
Total	520	
Tandem Spaces	78	
Clubhouse/Visitor	17	
Bicycle	62	

Fire Flow & Notes:	
Date & Time Tested:	6-3-21 at 9:20 AM
Static	112
Residual	88
Flow	76
1,465 GPM	
Note: Knox Boxes shall be required for riser room access	



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(256) 690-5312

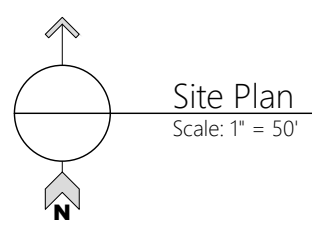


The Roberts Apartments at TM
Madison, AL

Site Plan
Job No: 21-128
Date: 2021-11-16
Drawn By: JLH
Checked By: RS

SHEET NUMBER
C2

FINAL FOR DEVELOPMENT
DEC 9 9 2021

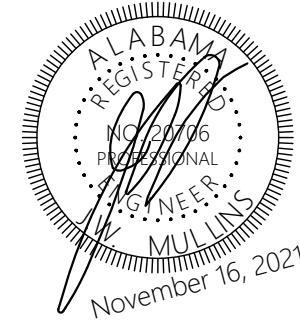


- Layout Notes:
1. All dimensions are from back of curb, U.N.O.
 2. Sidewalks to have max cross slope of 2%.

REVISIONS

Date	By	Description
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The Roberts Apartments at TM
Madison, AL

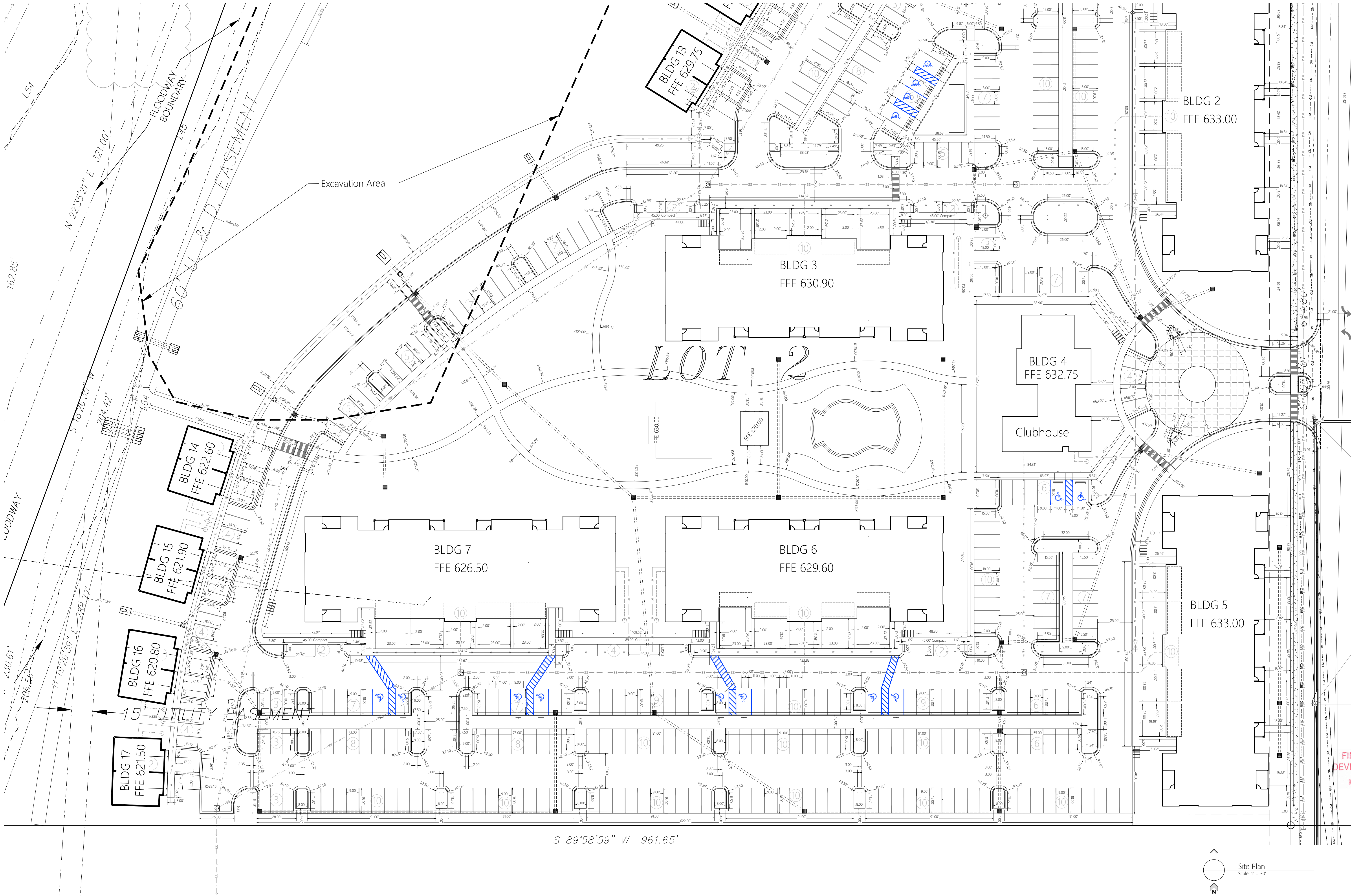
PREPARED FOR: Rohdie Group

FINAL FOR
DEVELOPMENT
Site Plan
DEC 8 g 2021

Job No: 21-128
Date: 2021 11-16
Drawn By: JLH
Checked By: RS

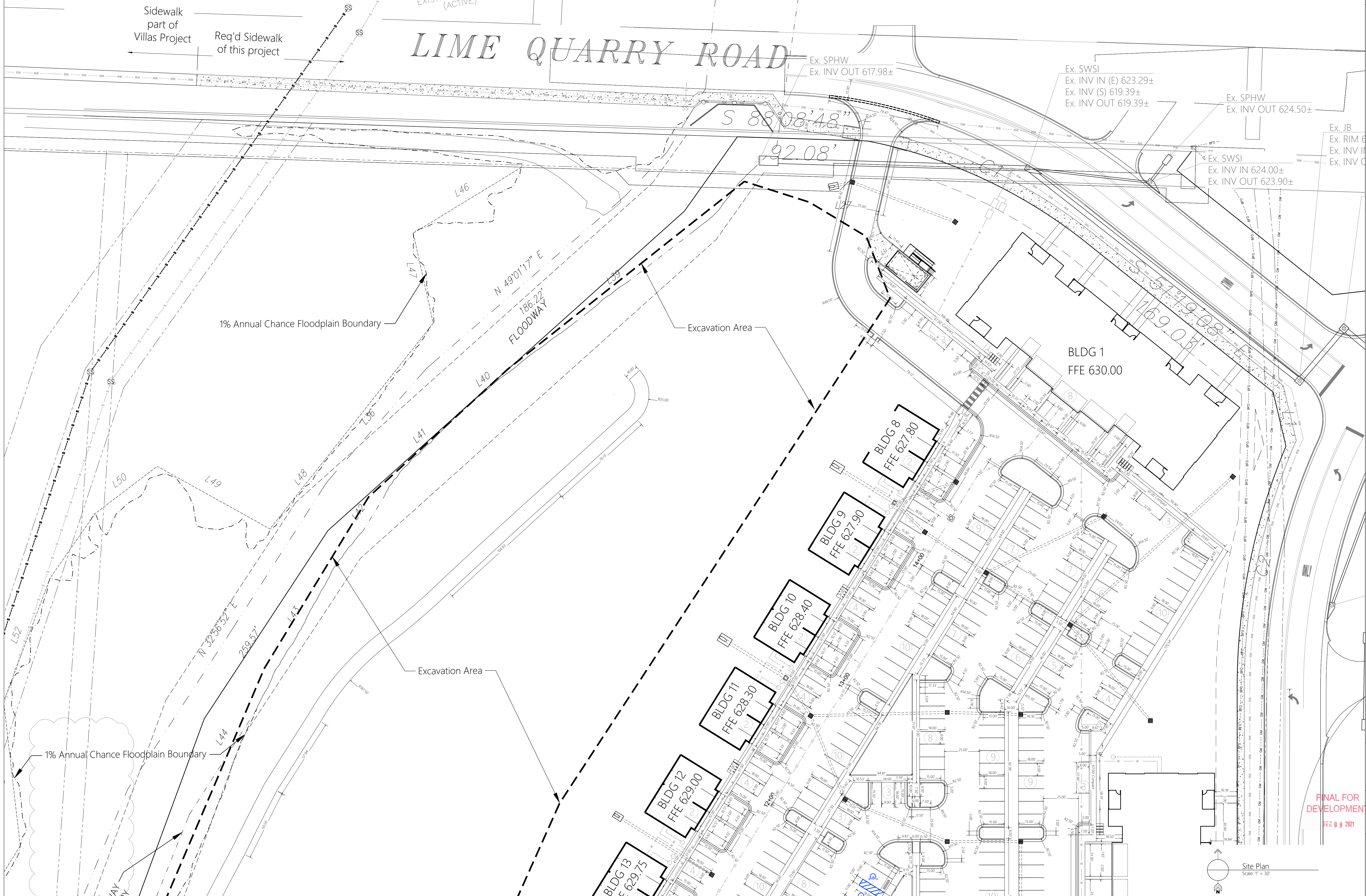
SHEET NUMBER

C2.1



Layout Notes:

1. All dimensions are from back of curb, U.N.O.
2. Sidewalks to have max cross slope of 2%.

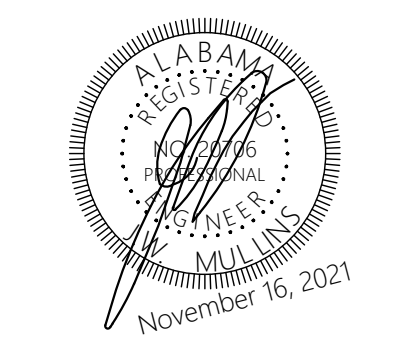


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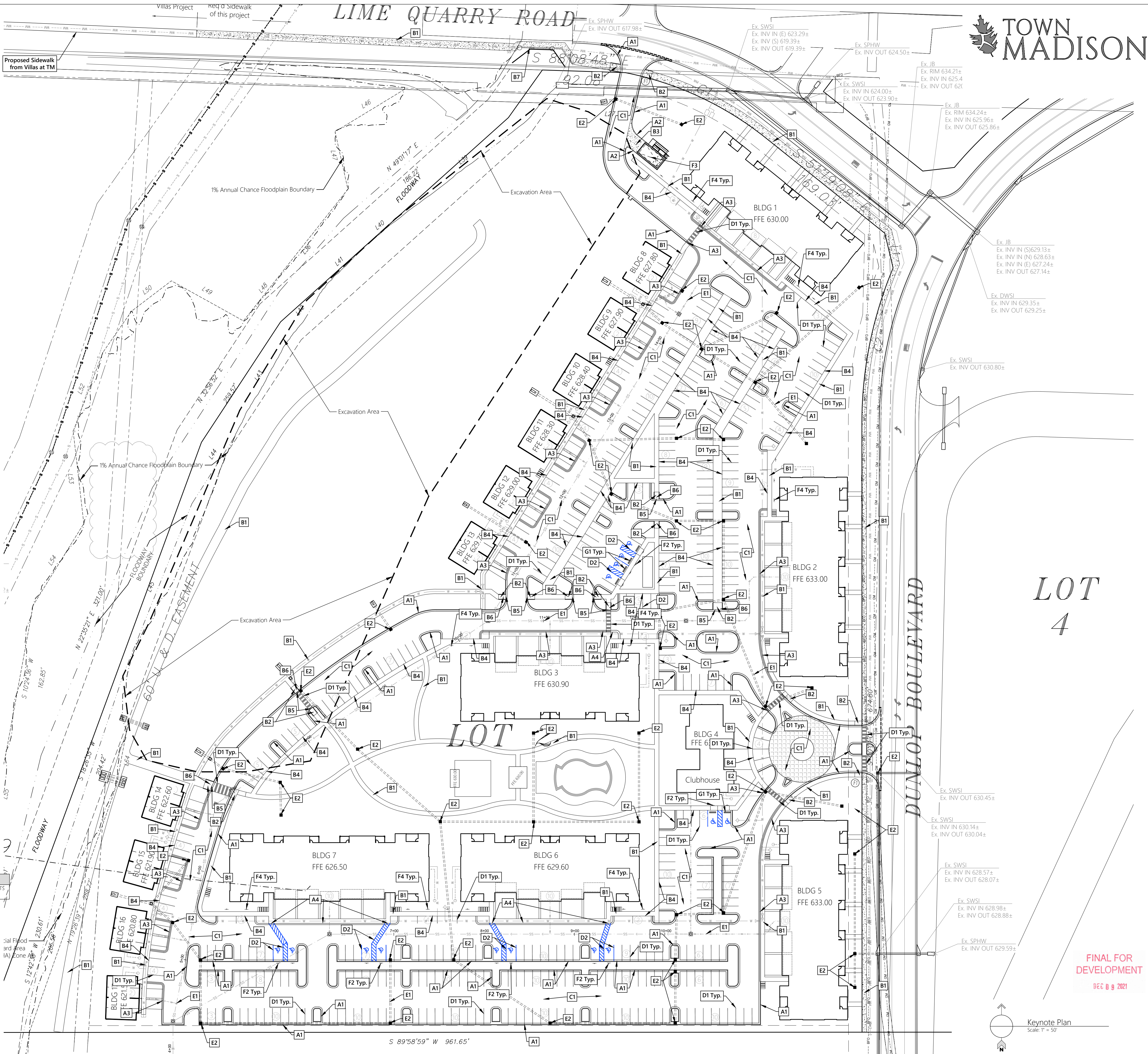
The Roberts Apartments at TM
Madison, AL

PREPARED FOR: Rohdie Group

Site Plan

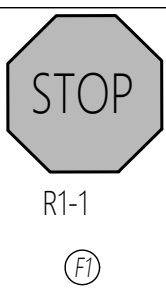
Job No: 21-128
Date: 2021 11-16
Drawn By: JLH
Checked By: RS

SHEET NUMBER
C2.2



- Notes:
- All traffic control devices shall be erected and maintained in conformance with the Manual on Uniform Traffic-Control Devices and any revision thereof.
 - Required Fire Flows cannot be determined precisely until the specific building use, construction type and other factors have been disclosed and reviewed. The applicant will comply with the fire flow and fire safety and suppression requirements of all adopted city codes and regulations.
 - All drainage ditches are to be centered on property lines unless otherwise shown.
 - All utilities shall be underground.
 - If adverse conditions are uncovered during construction, the city engineer may require modification of these plans to the extent necessary to assure compliance with the City's construction specification manual.
 - All lots shall be graded so that run-off will be directed to the street or to drainage ways in a dedicated easement.
 - Setbacks are governed by the latest edition of the Zoning Ordinance of the City of Madison.
 - Dumpster enclosure, per City of Madison requirements, required prior to Certificate of Occupancy for building.

- Keynote Legend:
- A1 Req'd Standard 24" Conc. Curb & Gutter, see detail.
 - A2 Req'd Concrete Integral Curb, see detail.
 - A3 Req'd Fully Mountable Curb w/ Channel, see detail.
 - A4 Req'd 18" Conc. Ribbon Curb, see detail.
 - B1 Req'd 4" thick Conc. Sidewalk, width as shown.
 - B2 Req'd Curb Ramp, curb-return style
 - B3 Req'd 6" thick Conc. Paving with 6x6/10 WWM
 - B4 Req'd Turn-down Sidewalk, see detail.
 - B5 Req'd flush condition between pavement and sidewalk, coord. w/ Grading Plan.
 - B6 Req'd truncated domes and detectible warning pavers.
 - B7 Req'd sidewalk guardrail, per Town Madison Specs.
 - C1 Req'd Asphalt Paving, see detail.
 - D1 Req'd parking stall striping, white, 4" wide, painted.
 - D2 Req'd ADA parking stall striping & markings, blue, 4" wide, painted.
 - E1 Req'd Utility Infrastructure, see Utility Plan.
 - E2 Req'd Grate Inlet, see Utility Plan.
 - F1 Req'd "STOP" sign, per Town Madison Specs.
 - F2 Req'd ADA Parking sign, per Town Madison Specs.
 - F3 Req'd Dumpster enclosure, coord. w/ Architectural Plans.
 - F4 Req'd "Compact Parking" sign, per Town Madison Specs.
 - G1 Req'd Concrete 8" Graded Wheel Stop.



Fire Department Notes:

- SECURITY GATES SHALL MEET MADISON FIRE & RESCUE REQUIREMENTS FOR ACCESSIBILITY (CLICK 2 ENTER)



REVISIONS	
DATE	DESCRIPTION
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The Roberts Apartments at TM
Madison, AL

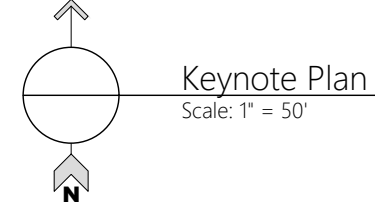
PREPARED FOR: Rohdie Group

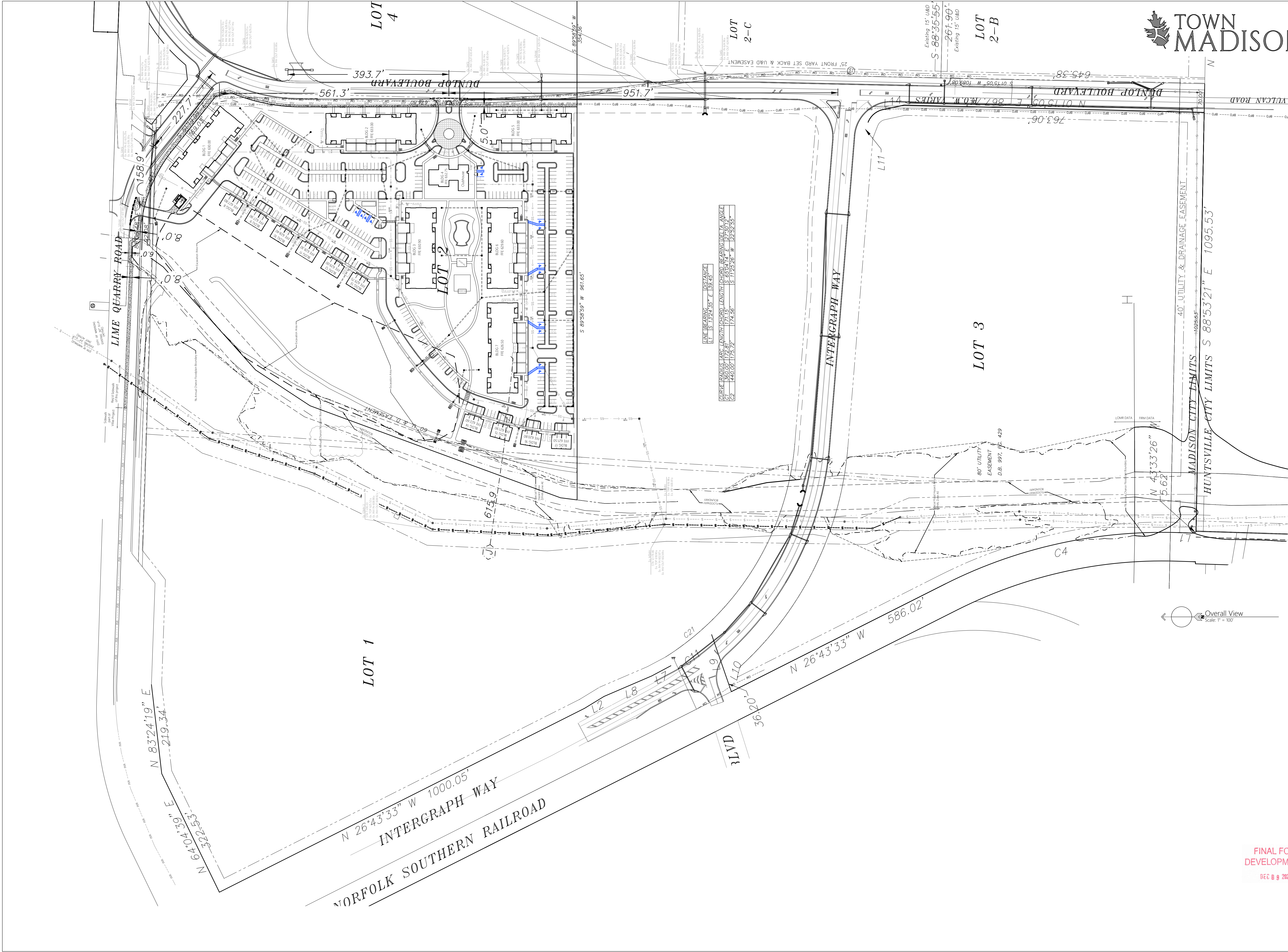
Keynote Plan

Job No: 21-128
Date: 2021-11-16
Drawn By: JLH
Checked By: RS

SHEET NUMBER
C2.3

FINAL FOR DEVELOPMENT
DEC 8 9 2021





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DEVELOPMENT
DEC 8 9 2021



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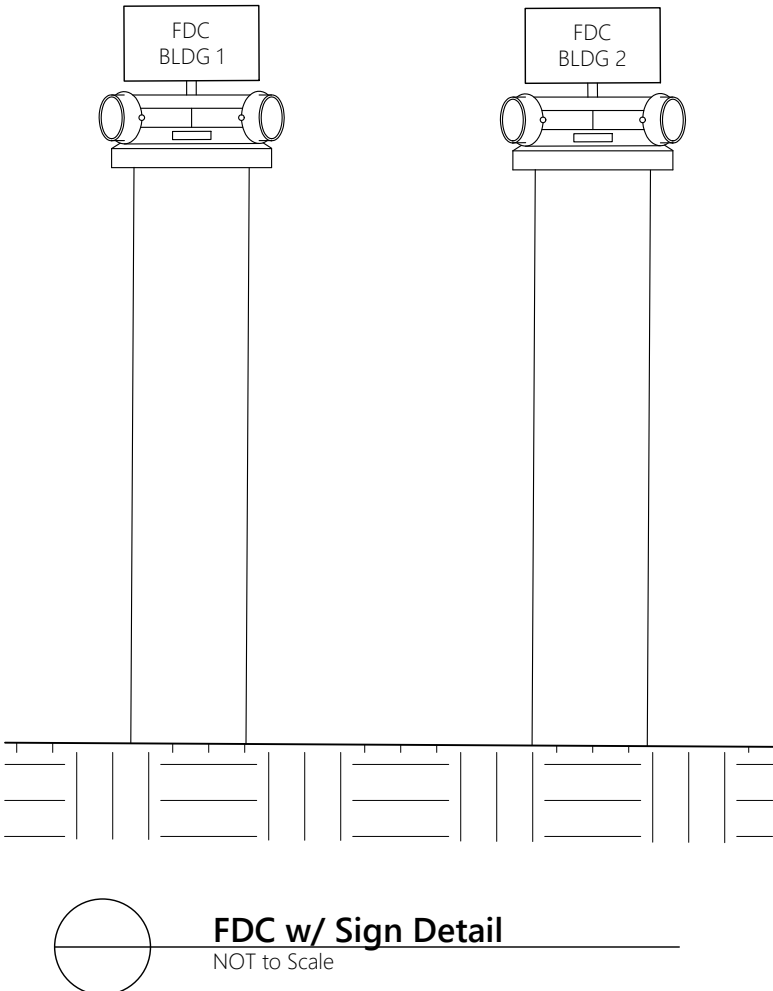
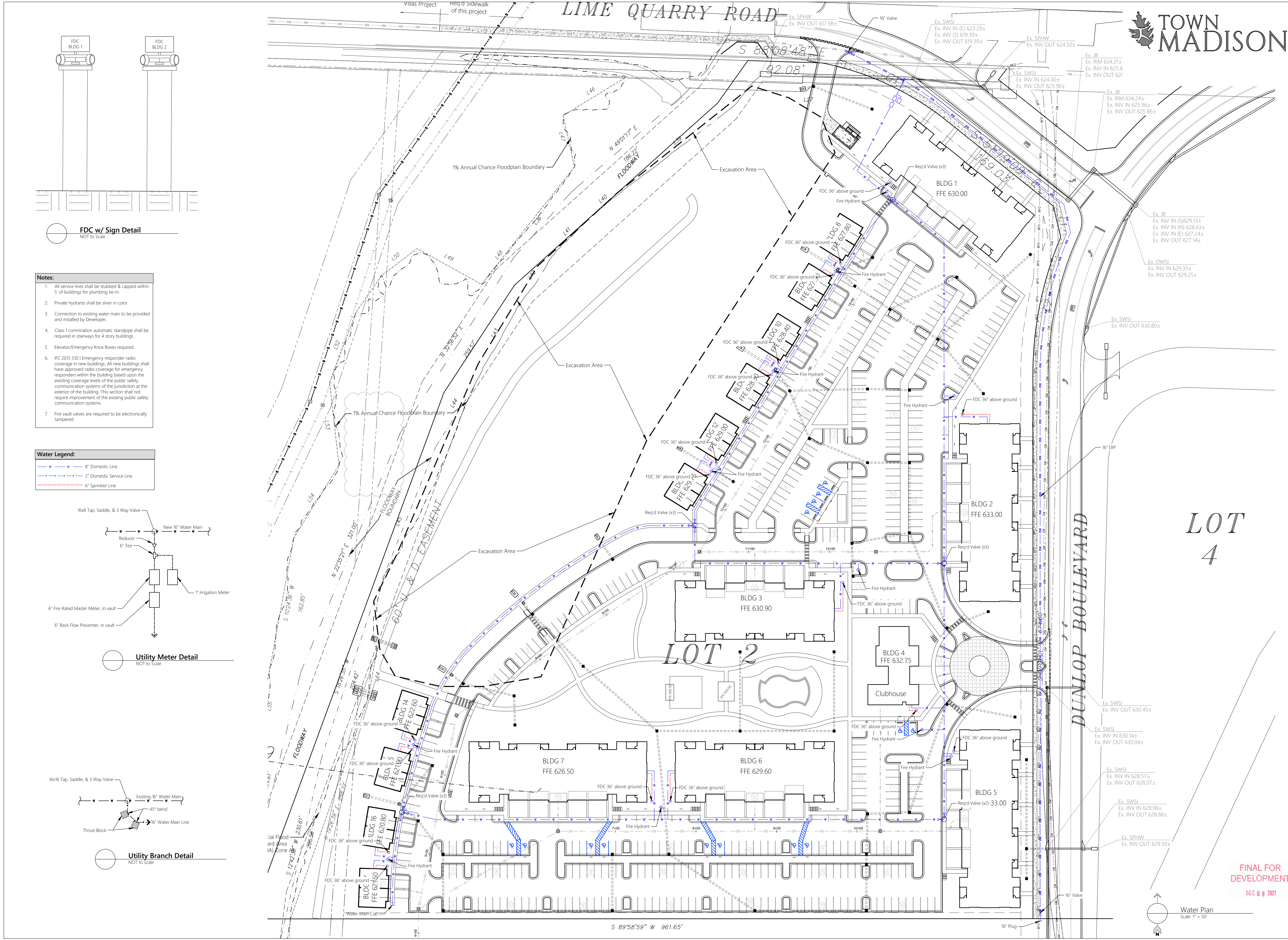
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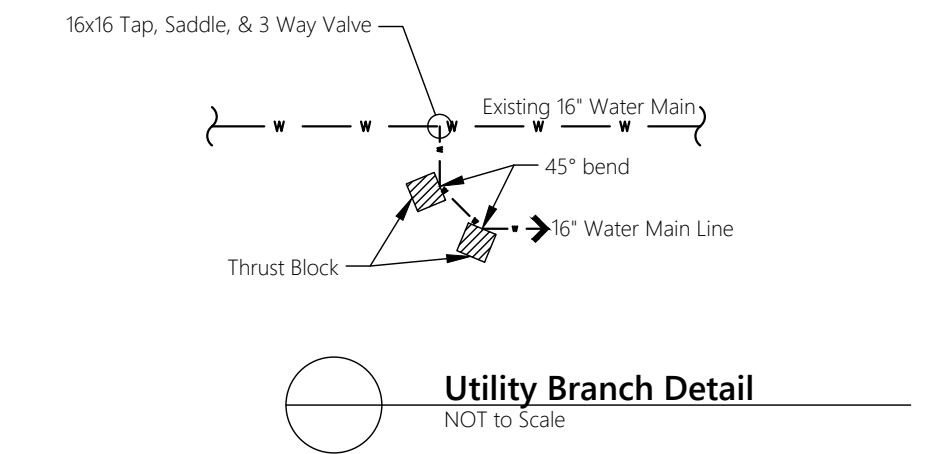
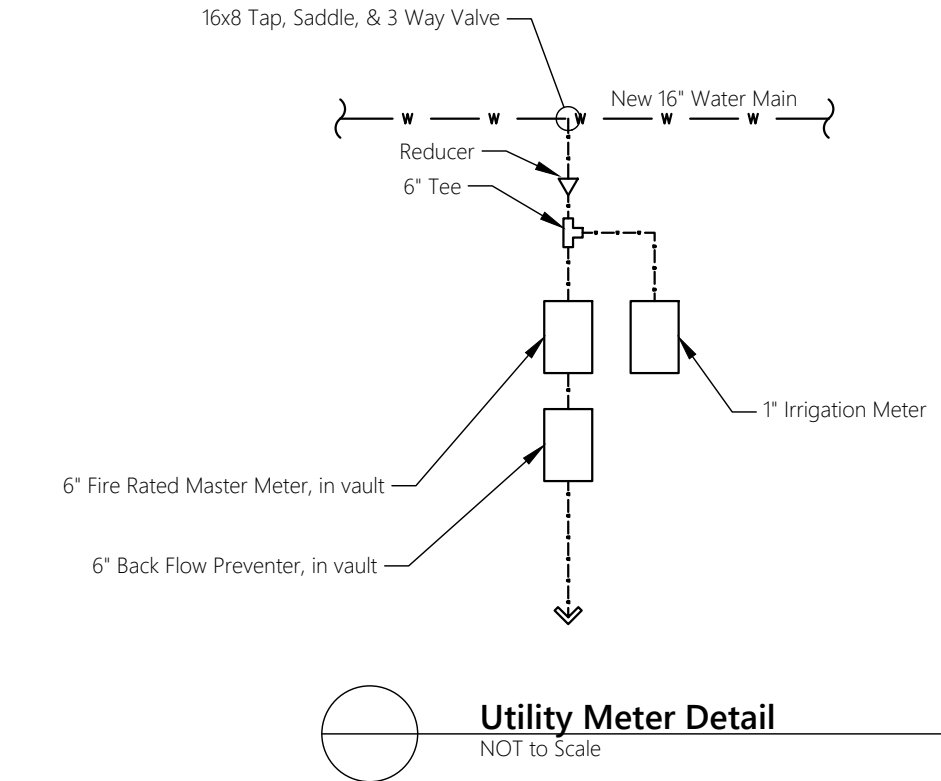
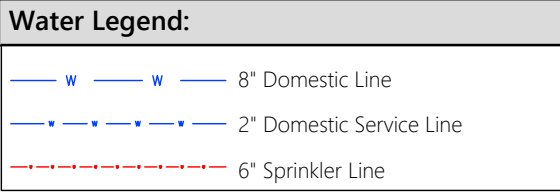


The Roberts Apartments at TM
Madison, AL
PREPARED FOR: Rohdie Group

Overall Site Plan
Job No: 21-128 Date: 2021 11-16 Drawn By: JLH Checked By: RS
SHEET NUMBER C2.4



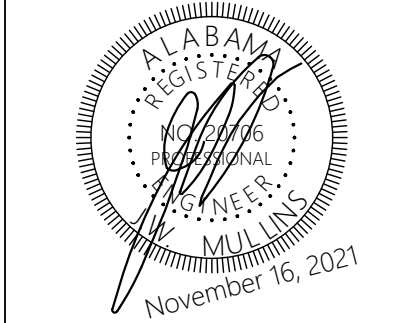
- Notes:**
1. All service lines shall be stubbed & capped within 5' of buildings for plumbing tie-in.
 2. Private hydrants shall be silver in color.
 3. Connection to existing water main to be provided and installed by Developer.
 4. Class 1 commination automatic standpipe shall be required in stairways for 4 story buildings.
 5. Elevator/Emergency Knox Boxes required.
 6. IFC 2015 510.1 Emergency responder radio coverage in new buildings. All new buildings shall have approved radio coverage for emergency responders within the building based upon the existing coverage levels of the public safety communication systems of the jurisdiction at the exterior of the building. This section shall not require improvement of the existing public safety communication systems.
 7. Fire vault valves are required to be electronically tampered.



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SURVEYING, LANDSCAPE ARCHITECTURE
2201 West Clinton Avenue, Suite 503, Huntsville, AL 35895
(256) 690-5312



The Roberts Apartments at TM
Madison, AL
PREPARED FOR: ---

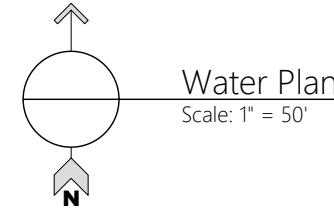
Water Infrastructure Plan

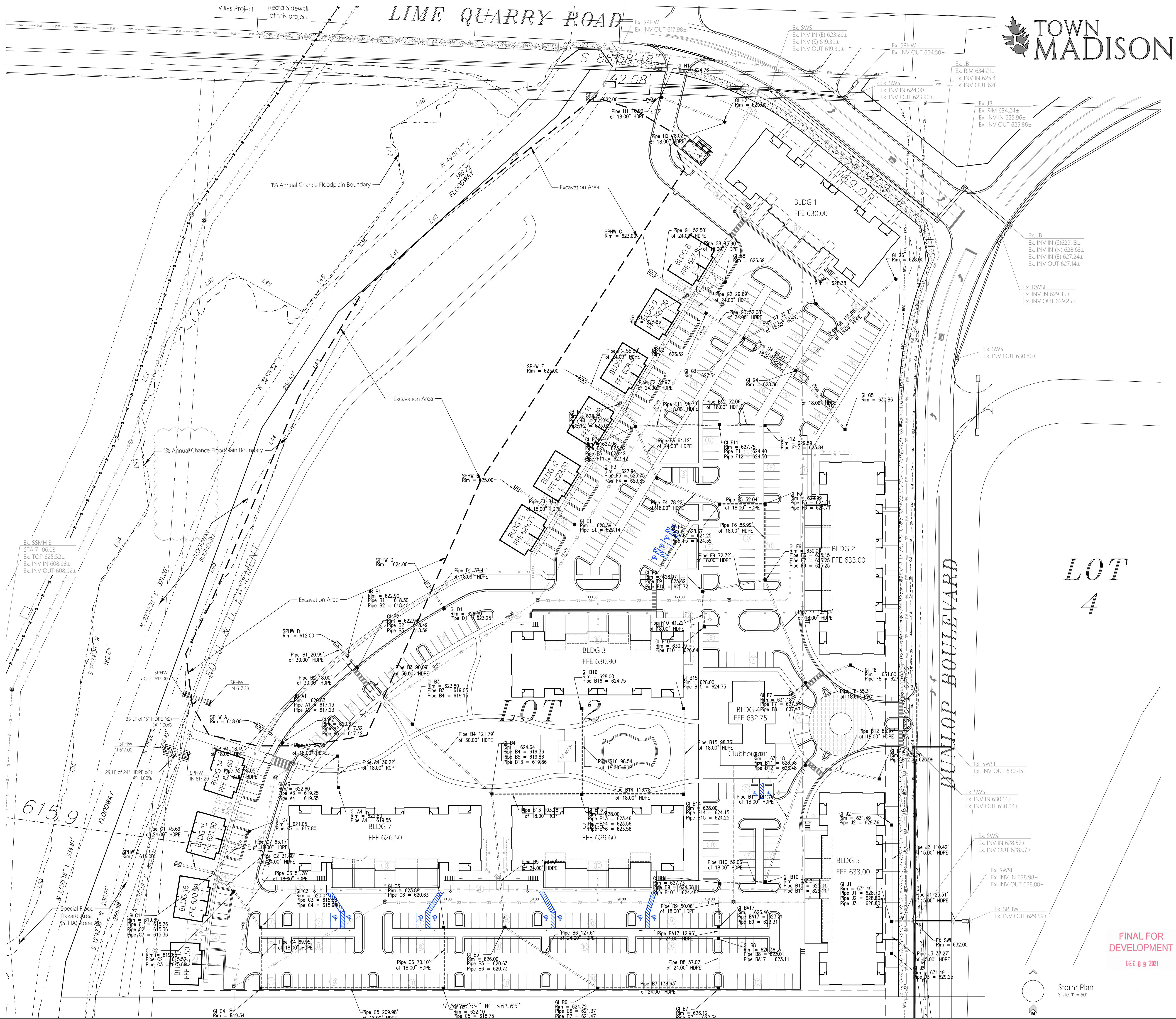
Job No: 21-128
Date: 2021 11-16
Drawn By: JLH
Checked By: RS

SHEET NUMBER

C3

FINAL FOR DEVELOPMENT
DEC 9 2021



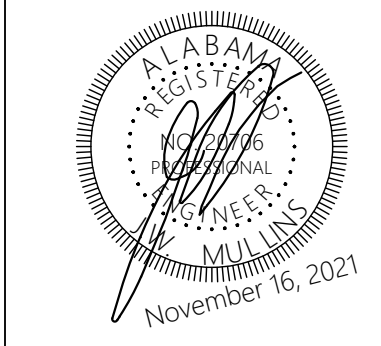


REVISIONS	
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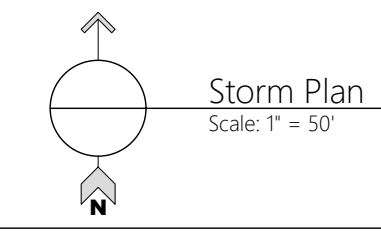
The Roberts Apartments at TM
Madison, AL

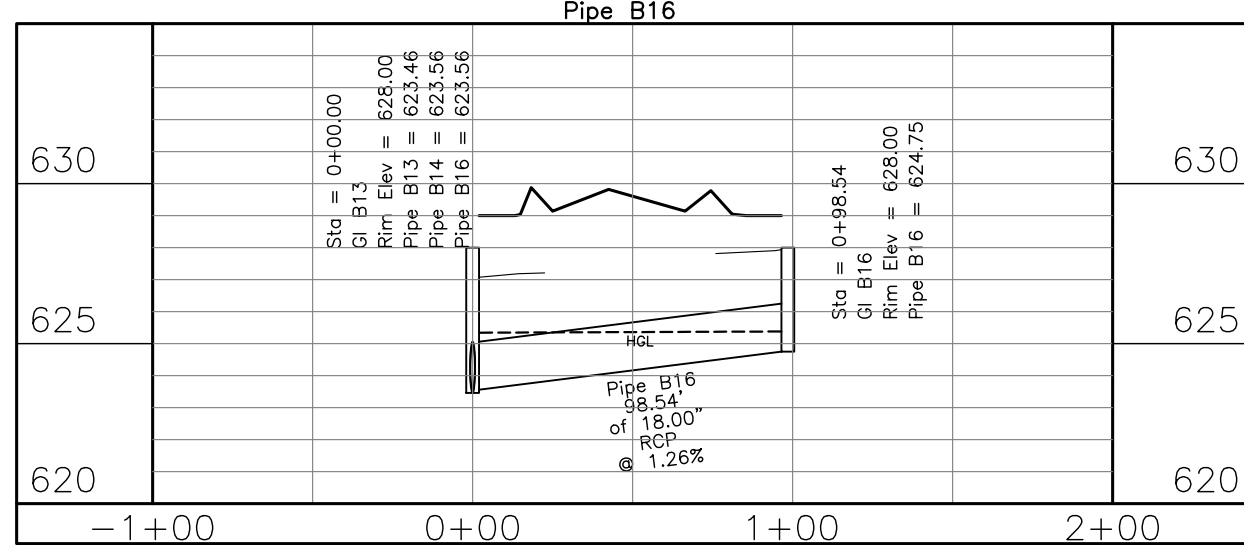
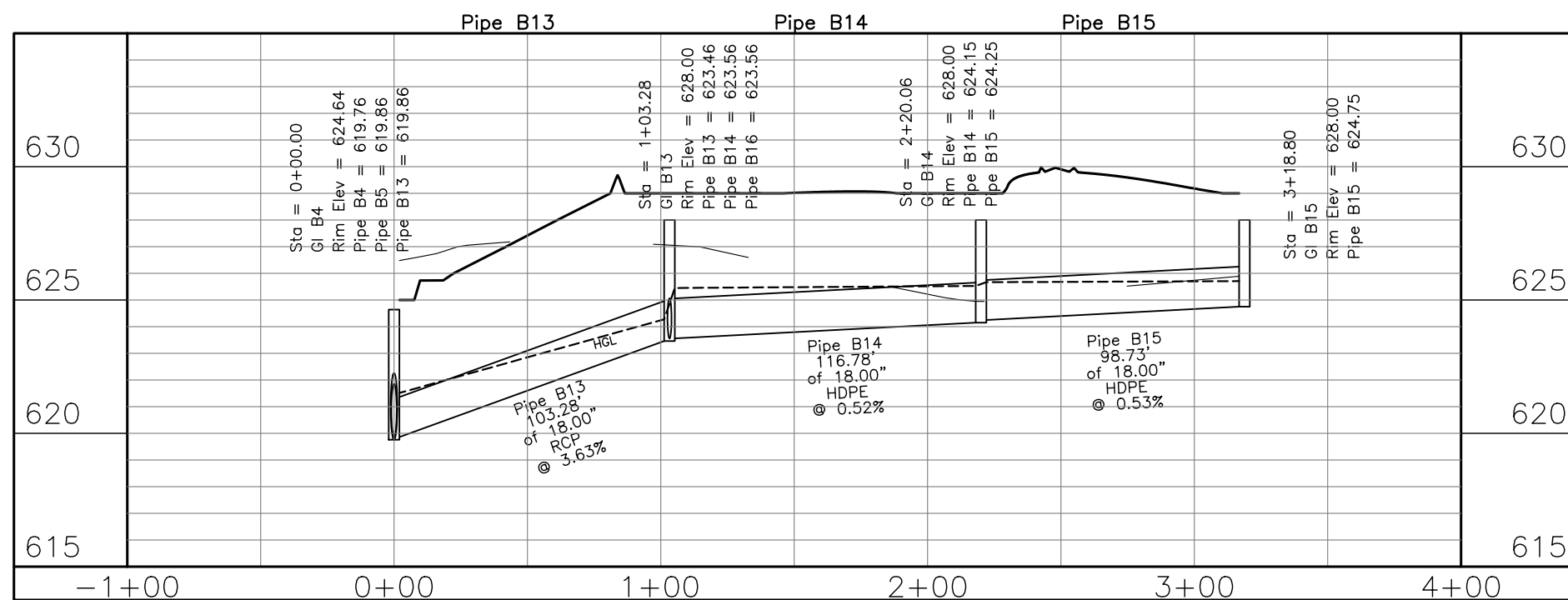
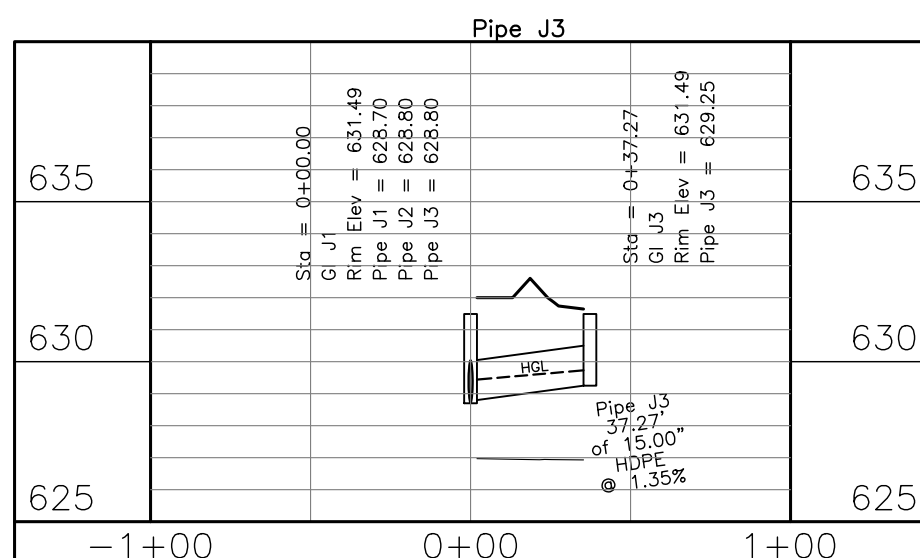
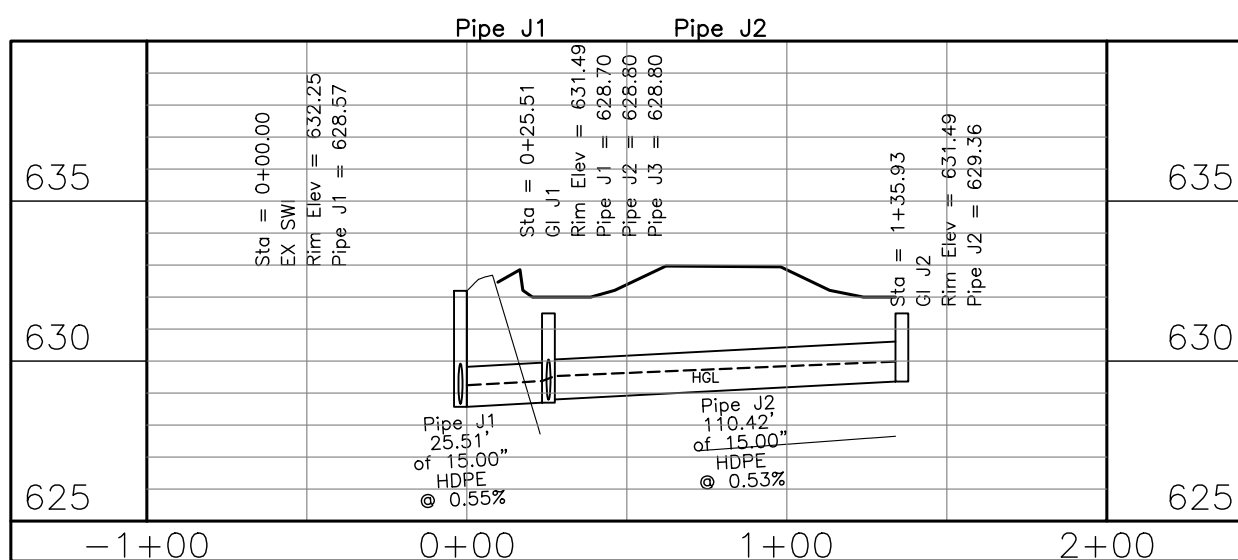
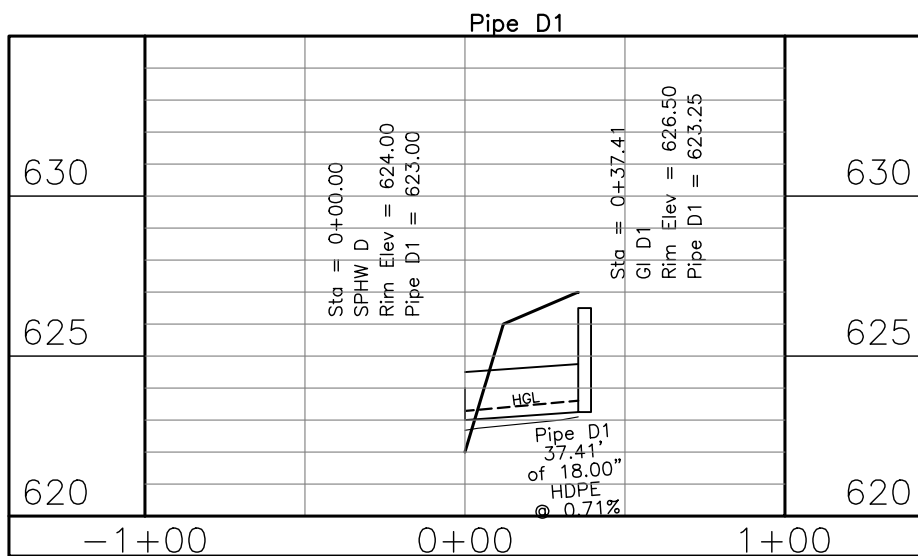
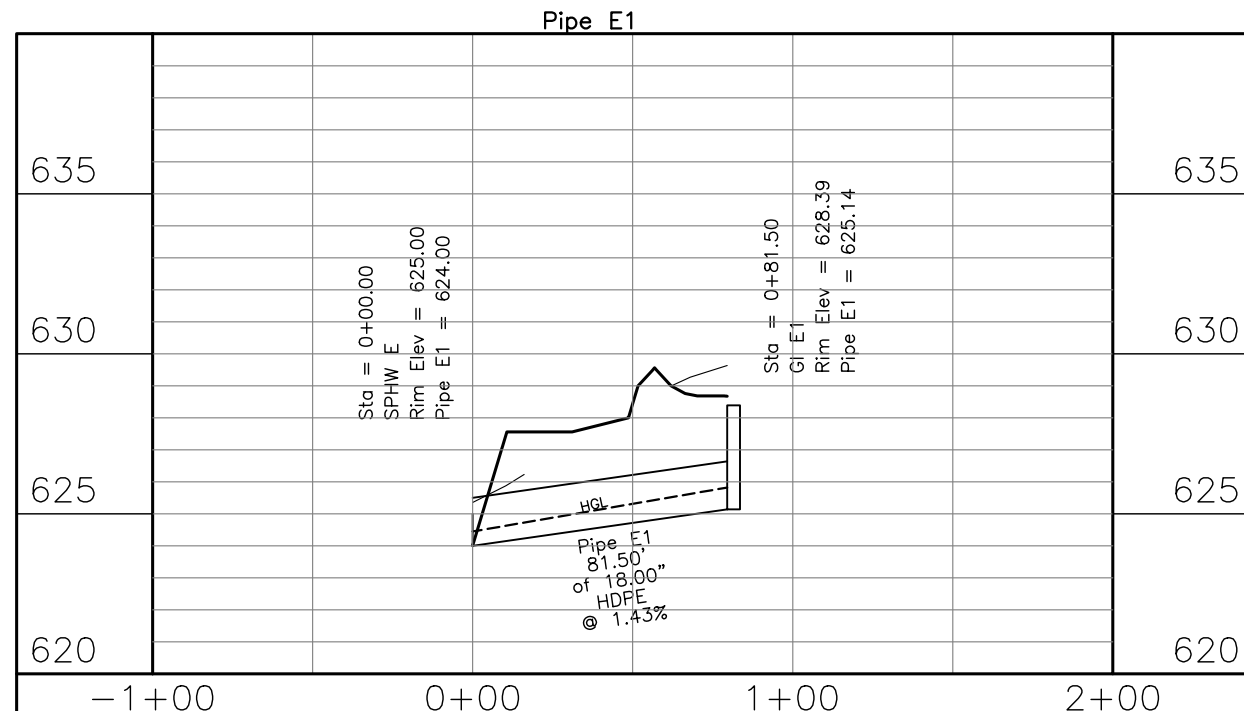
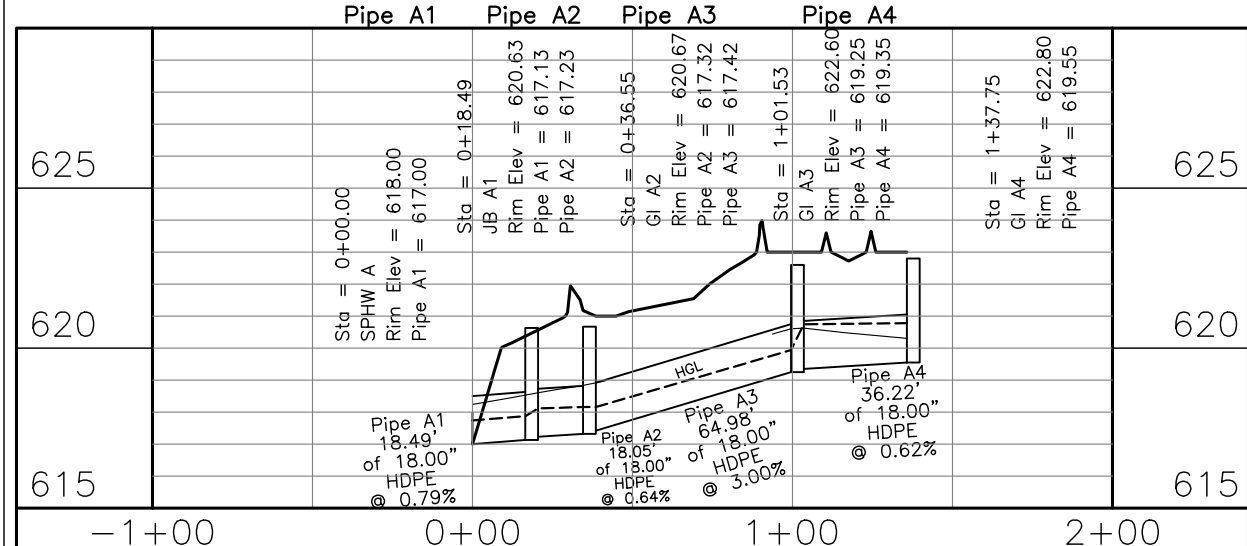
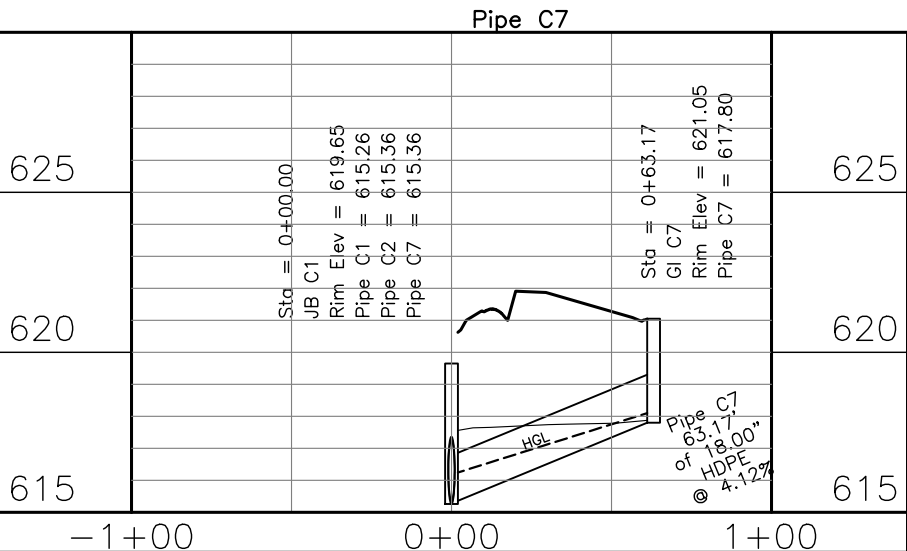
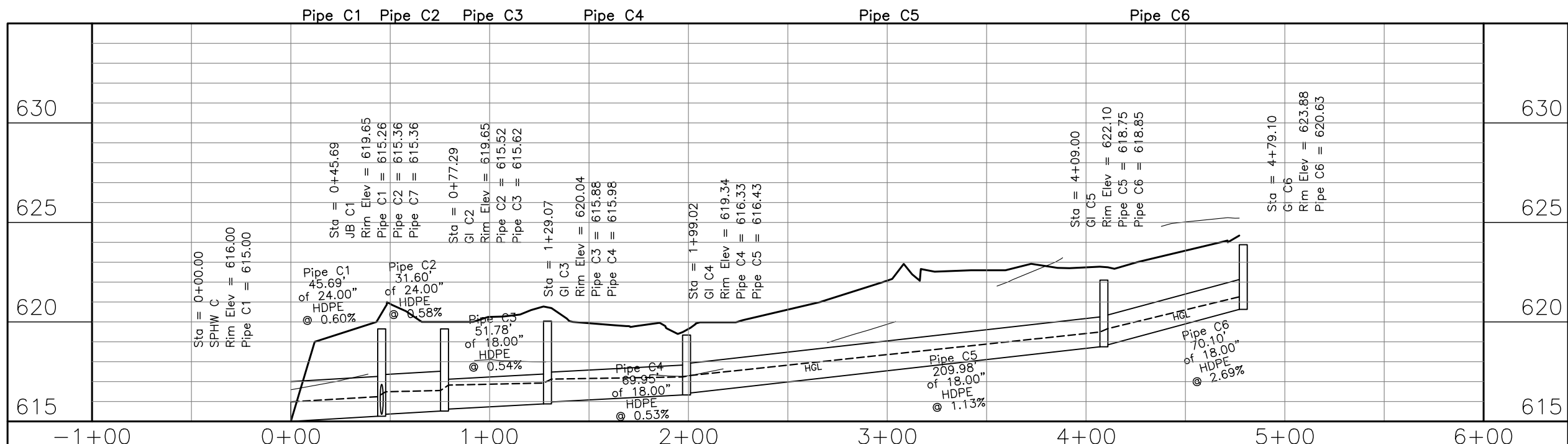
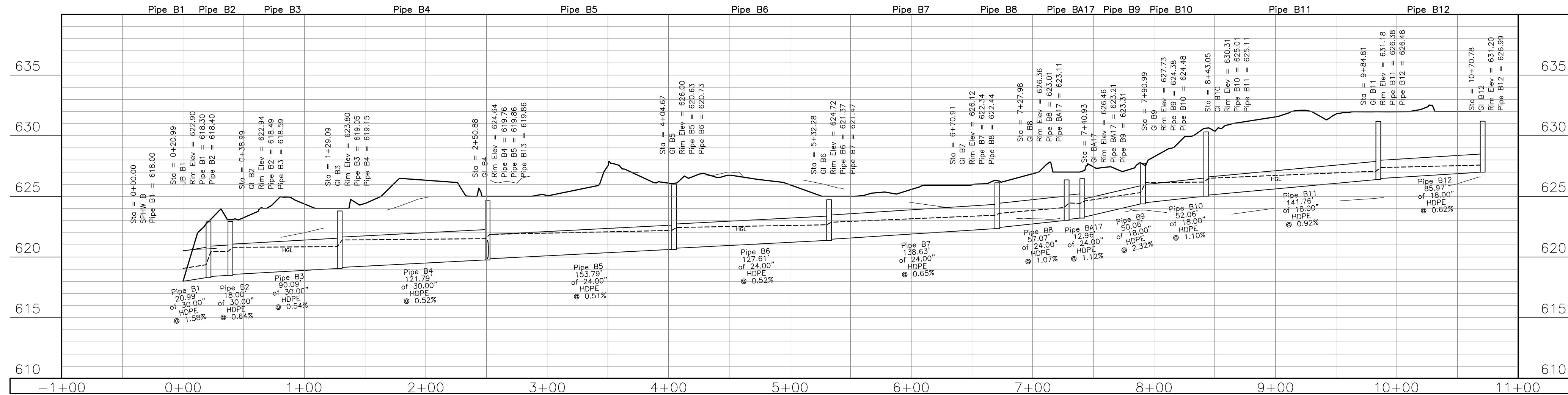
Storm Infrastructure Plan

Job No: 21-128
Date: 2021 11-16
Drawn By: JLH
Checked By: RS

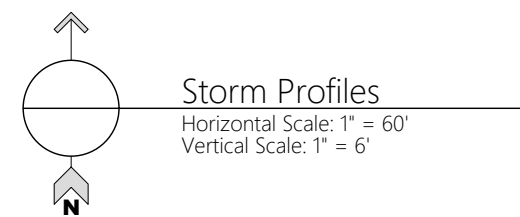
SHEET NUMBER
C4.1

FINAL FOR DEVELOPMENT
DEC 8 9 2021





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DEVELOPMENT
DEC 8 9 2021



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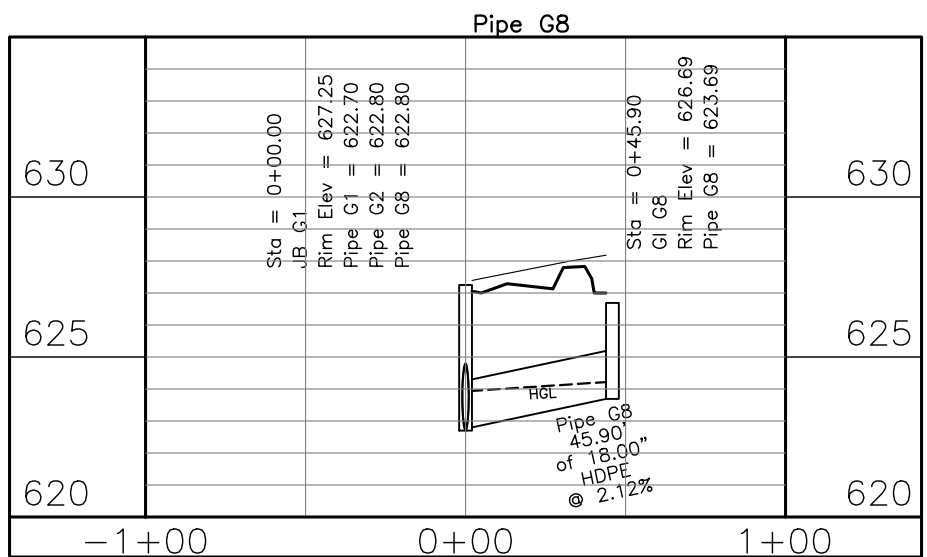
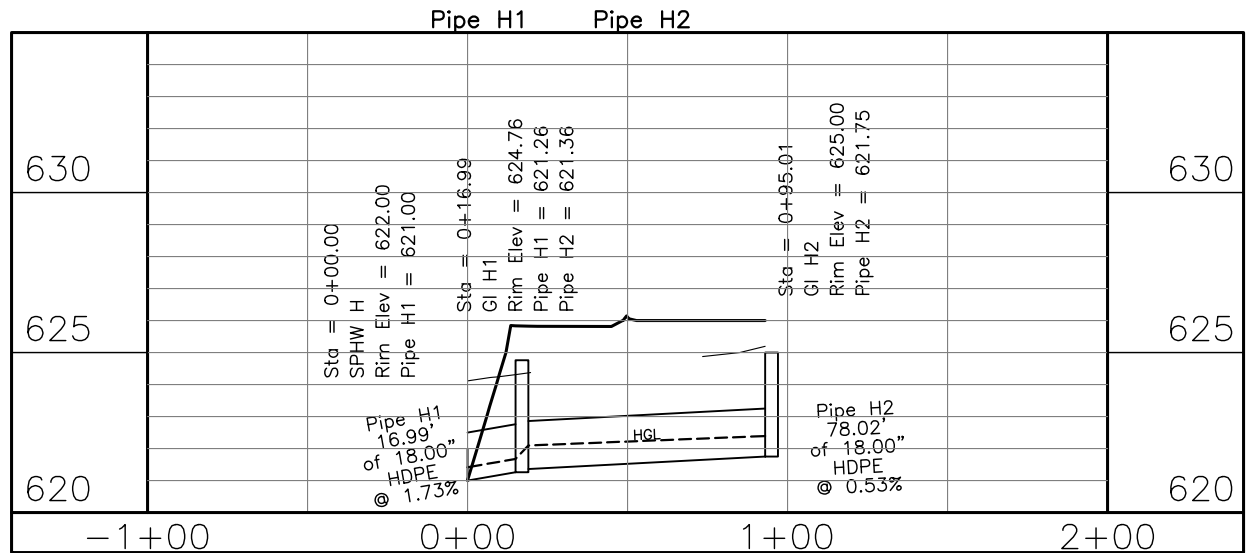
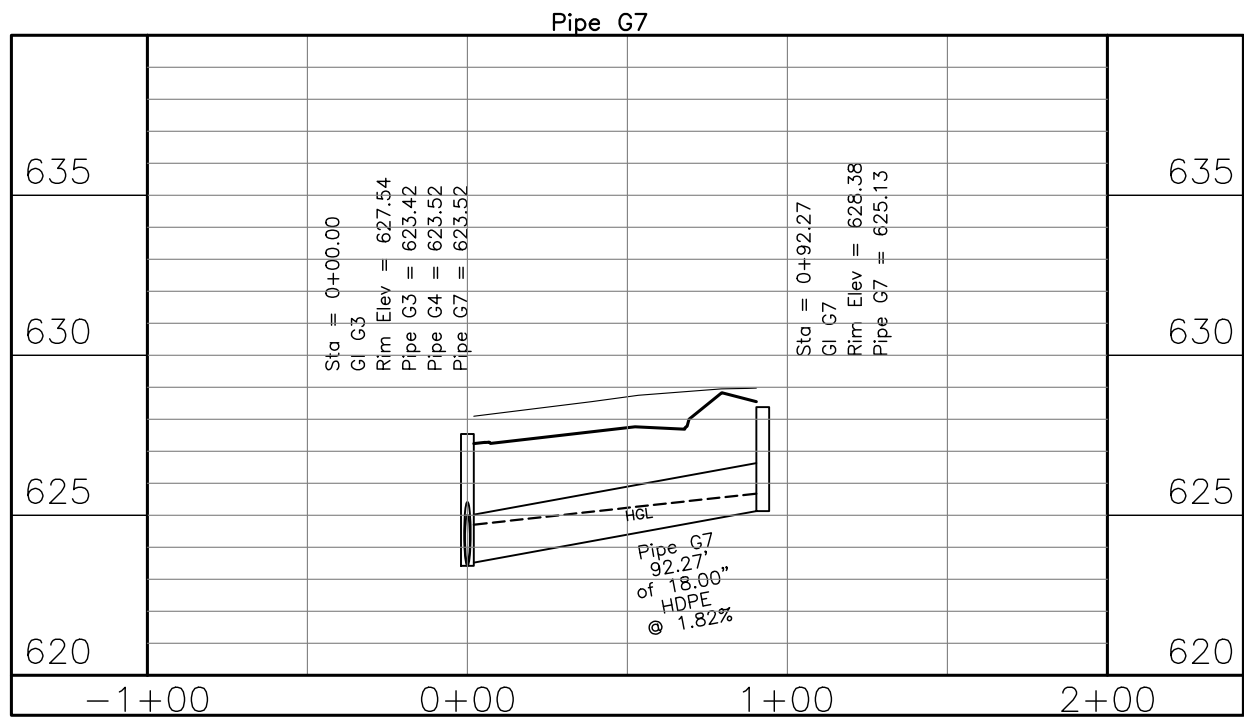
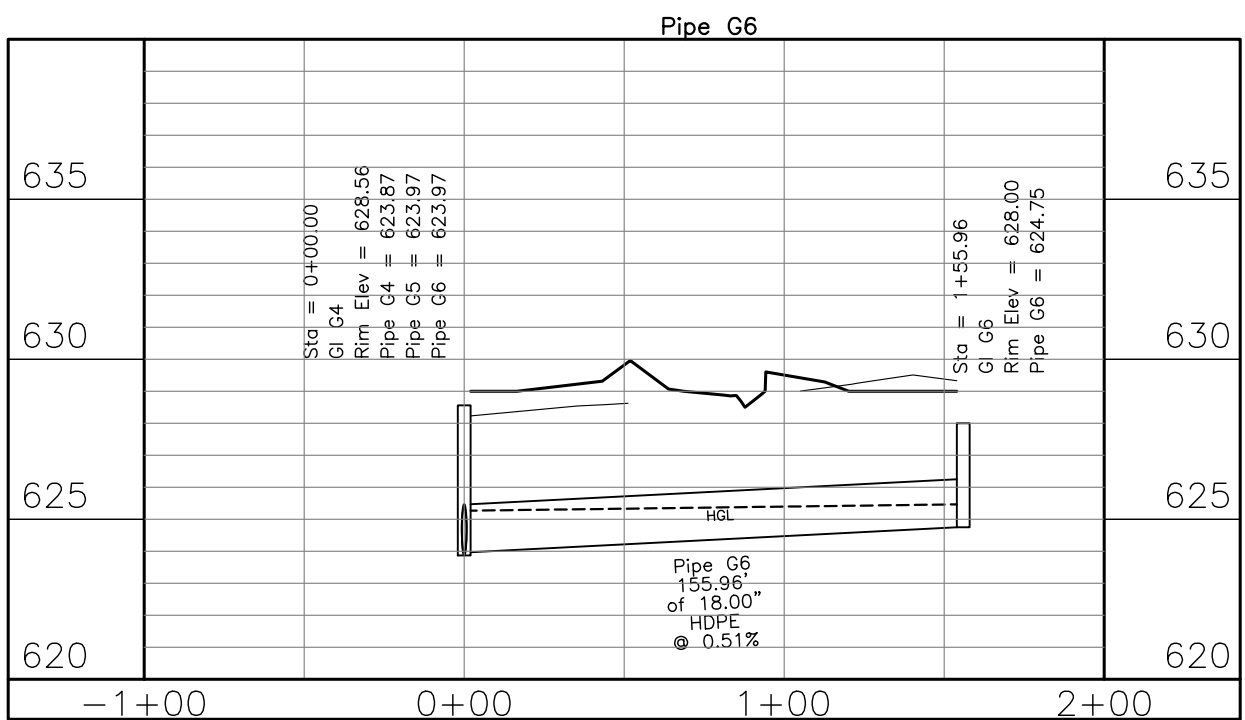
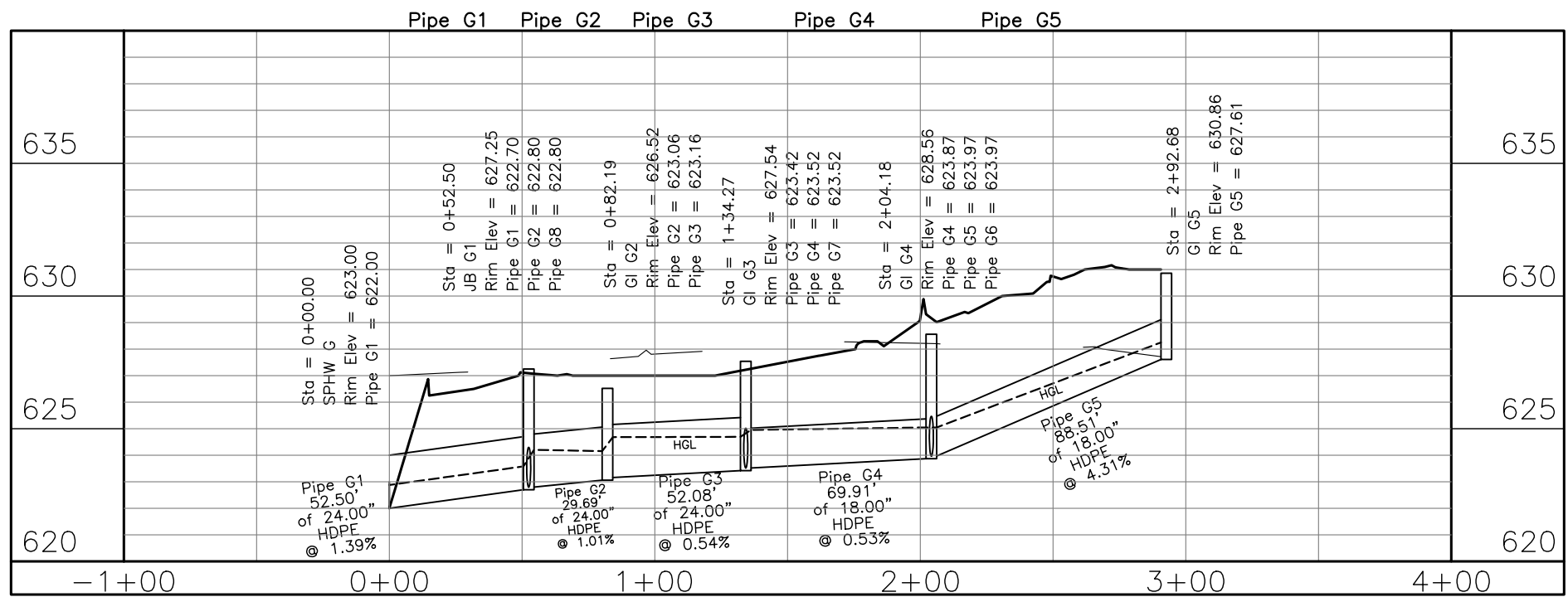
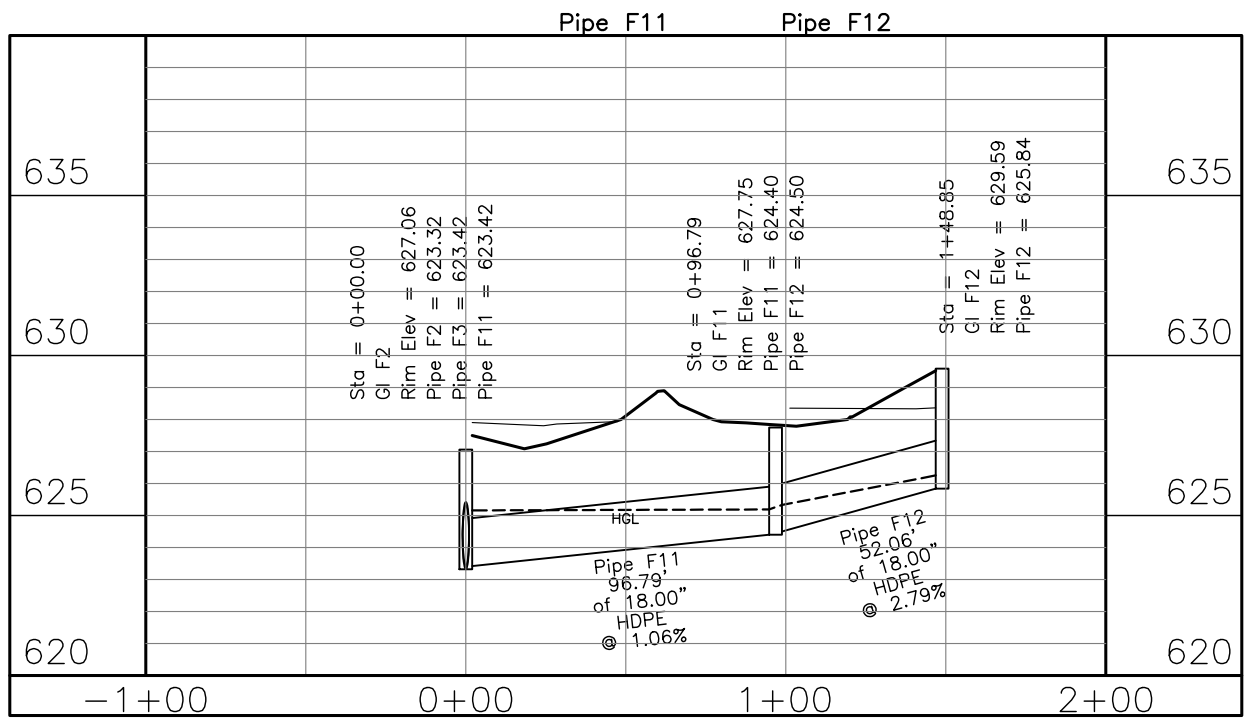
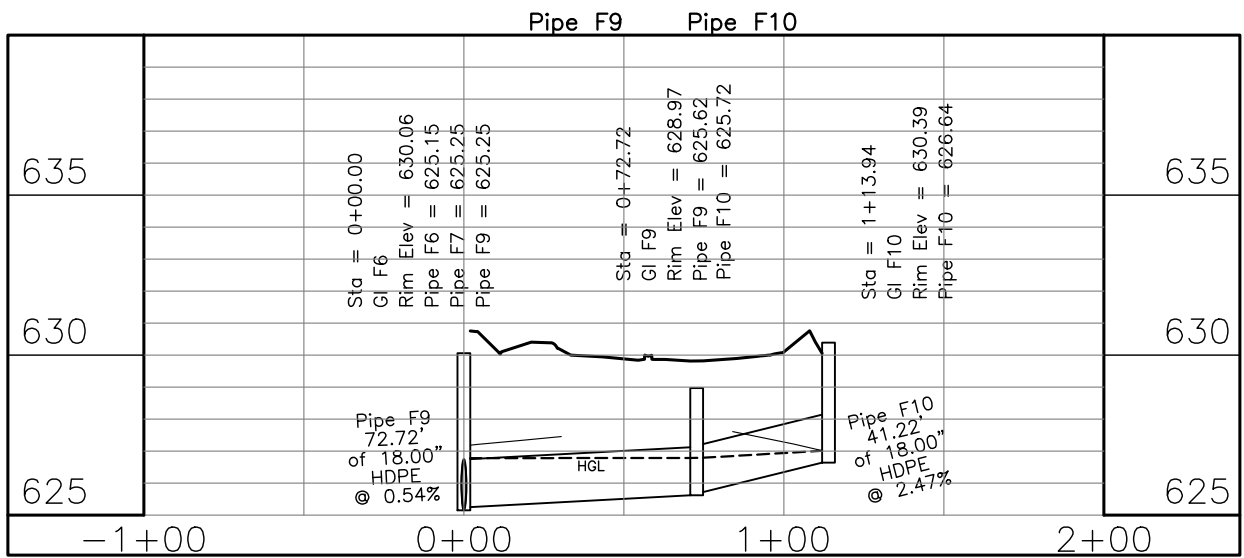
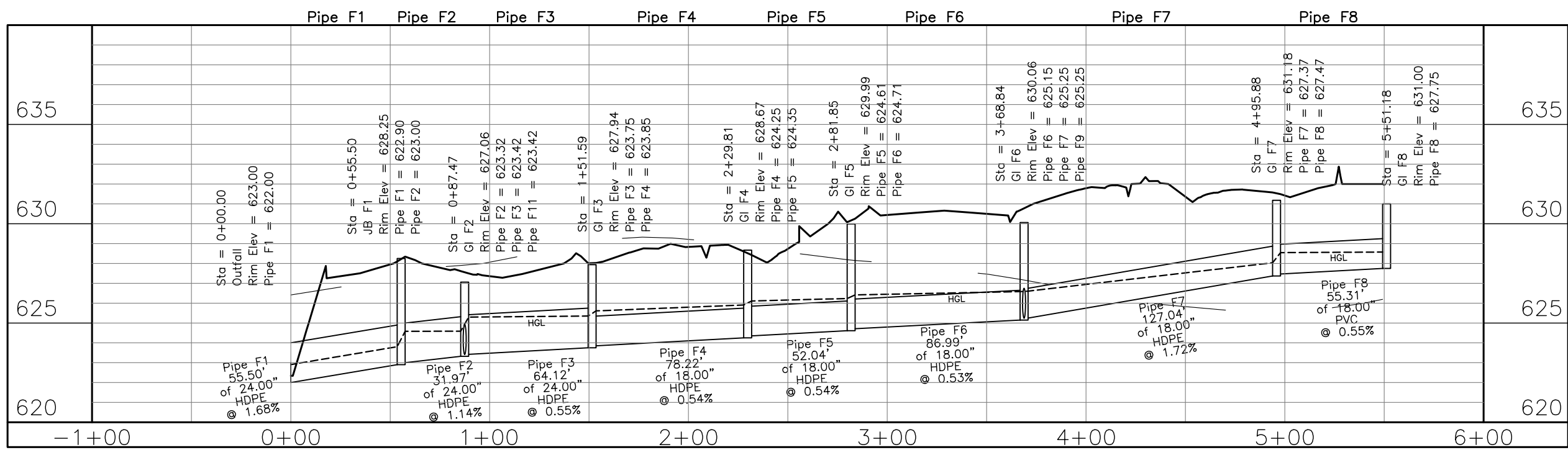
The Roberts Apartments at TM
Madison, AL
PREPARED FOR: ---

Storm Infrastructure
Profiles

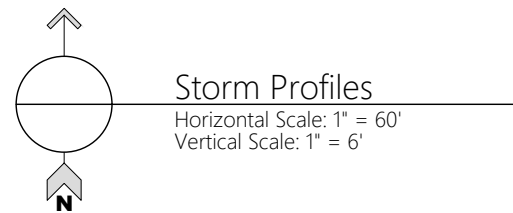
Job No: 21-128
Date: 2021-11-16
Drawn By: JH
Checked By: RS

SHEET NUMBER

C4.2

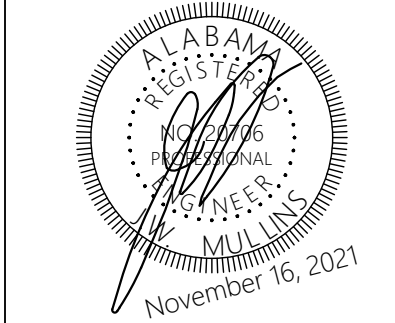


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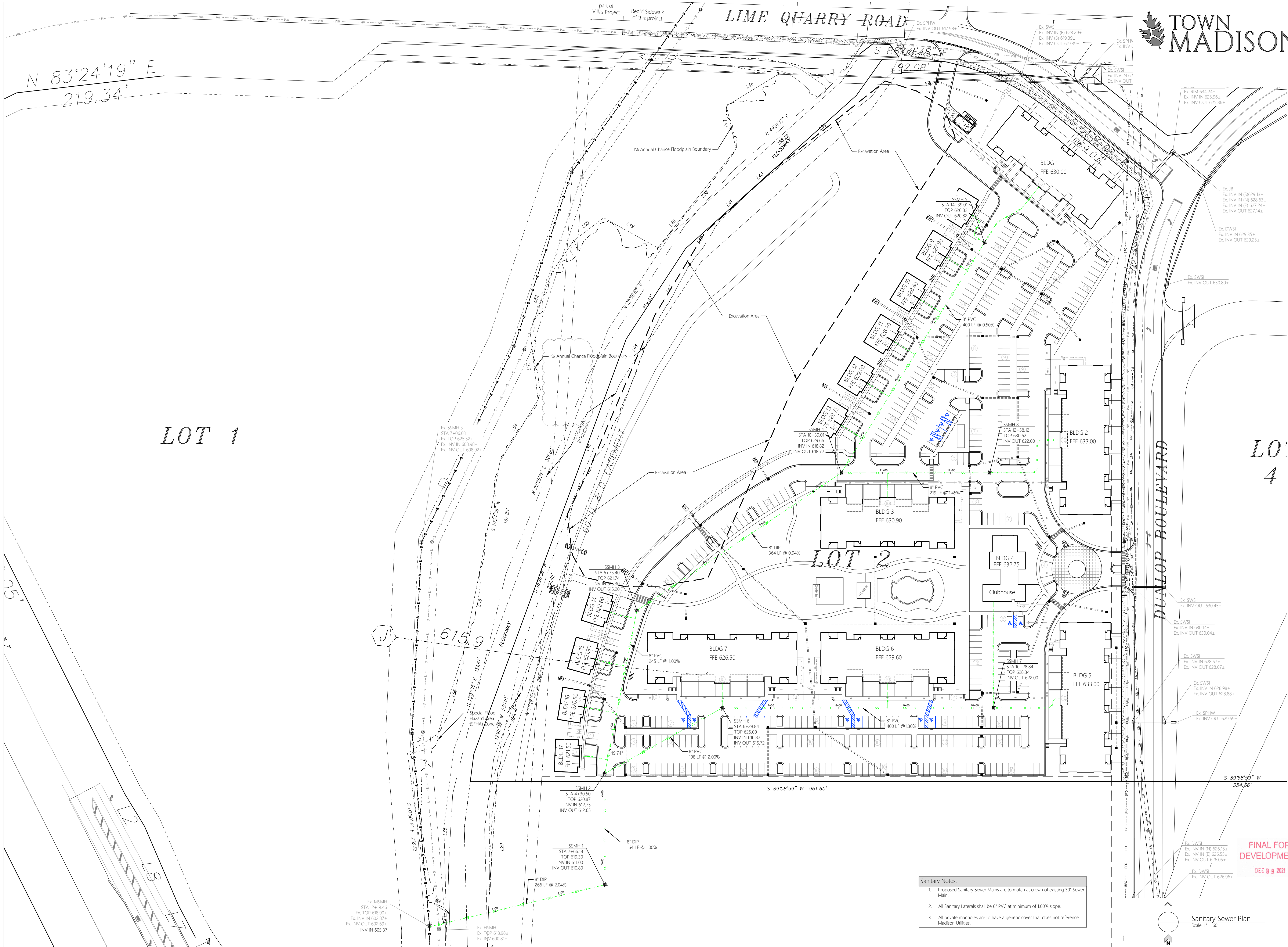
The Roberts Apartments at TM
Madison, AL

Storm Infrastructure
Profiles

Job No: 21-128
Date: 2021 11-16
Drawn By: JLN
Checked By: RS

SHEET NUMBER

C4.3



LOT 1

LOT 2

LOT 4

- Sanitary Notes:
- Proposed Sanitary Sewer Mains are to match at crown of existing 30" Sewer Main.
 - All Sanitary Laterals shall be 6" PVC at minimum of 1.00% slope.
 - All private manholes are to have a generic cover that does not reference Madison Utilities.

Sanitary Sewer Plan
Scale: 1" = 60'



REVISIONS	
Date	By
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The Roberts Apartments at TM
Madison, AL

Sanitary Sewer
Infrastructure Plan

Job No: 21-128
Date: 2021 11-16
Drawn By: JLH
Checked By: RS

SHEET NUMBER
C5

REVISIONS	
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The Roberts Apartments at TM
Madison, AL

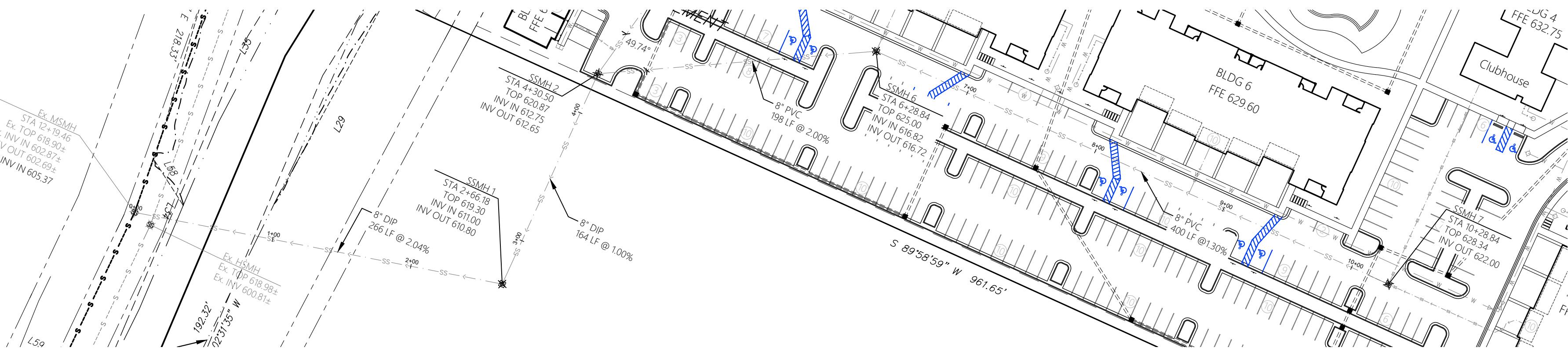
PREPARED FOR: ---

Sanitary Sewer
Plan & Profile

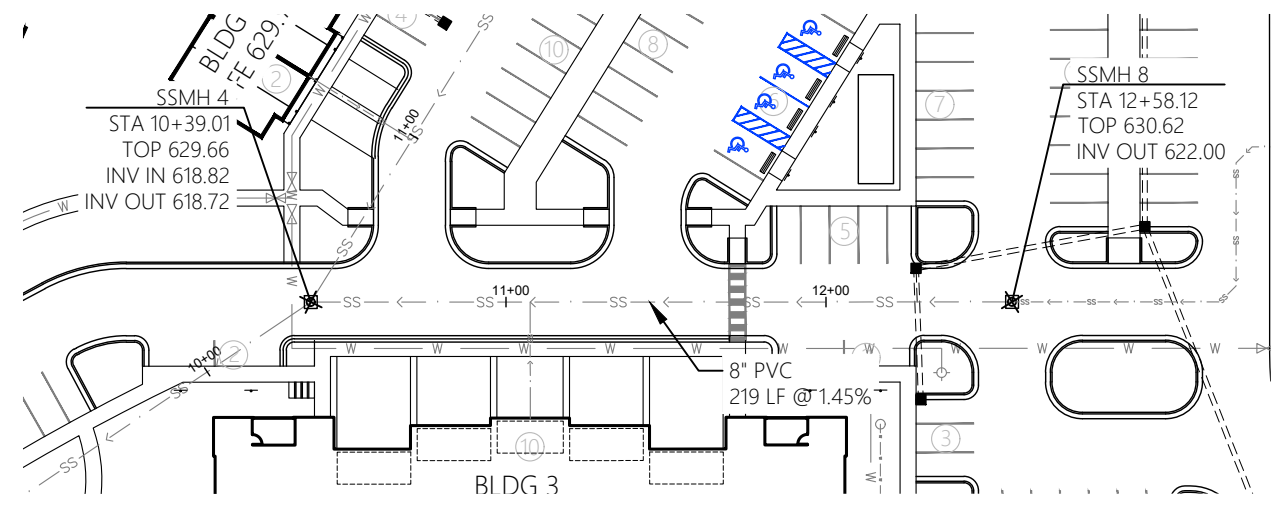
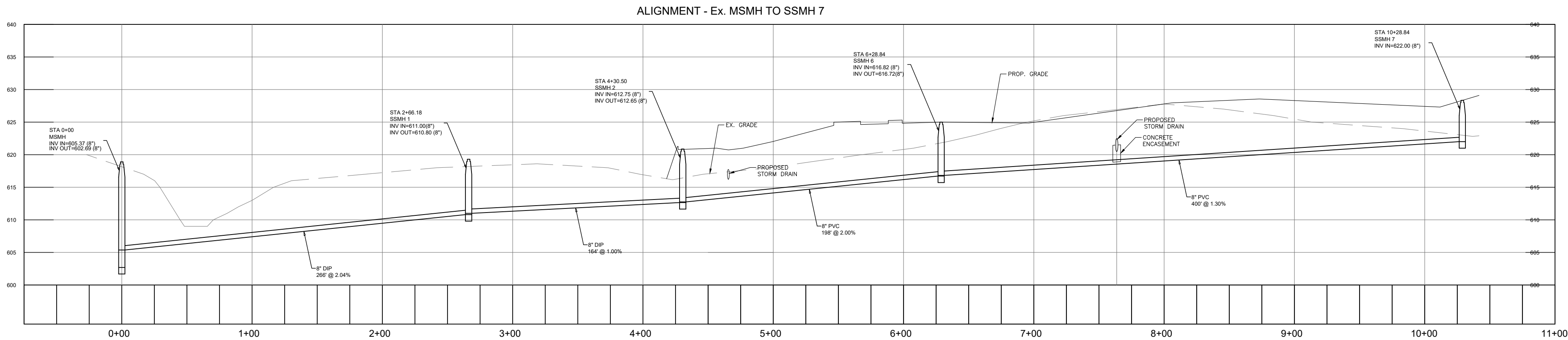
Job No: 21-128
Date: 2021 11-16
Drawn By: JLH
Checked By: RS

SHEET NUMBER
C5.1

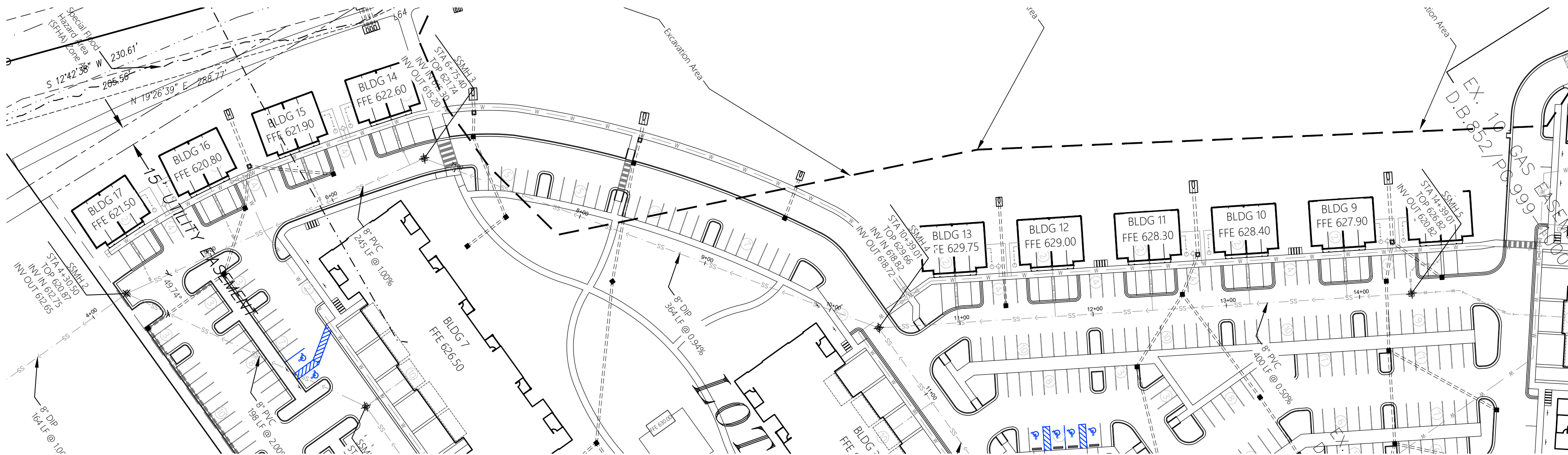
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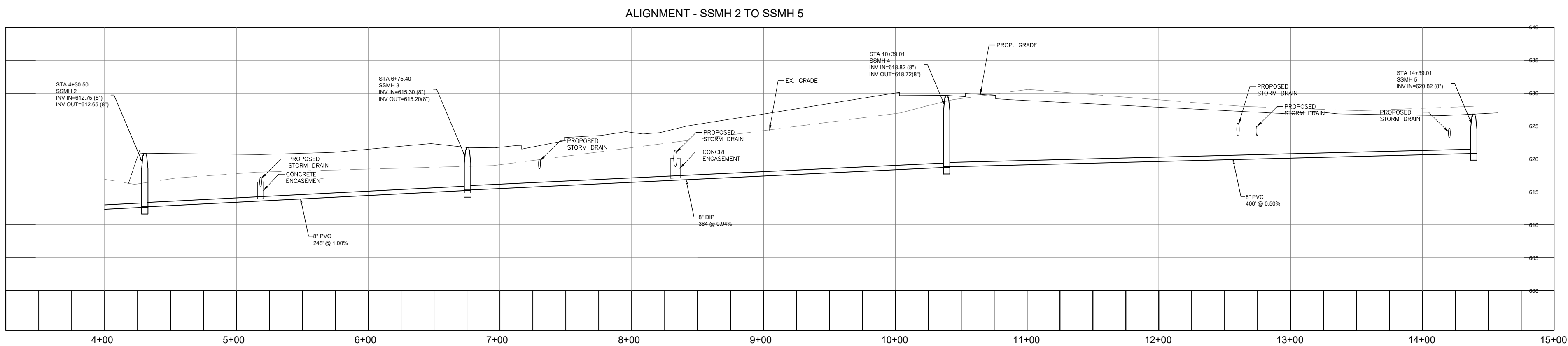
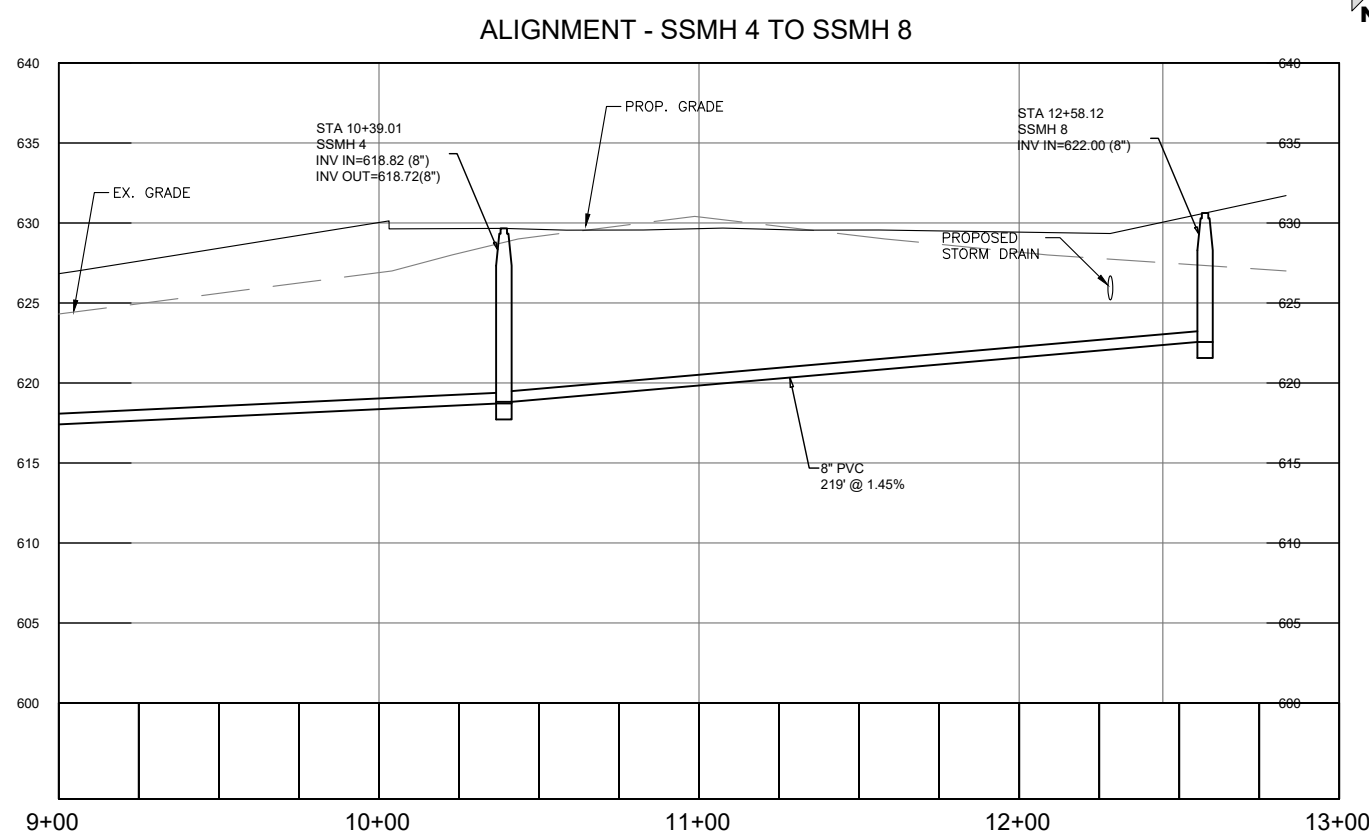
Sanitary Sewer Plan & Profile
Horizontal Scale: 1" = 60'
Vertical Scale: 1" = 12'

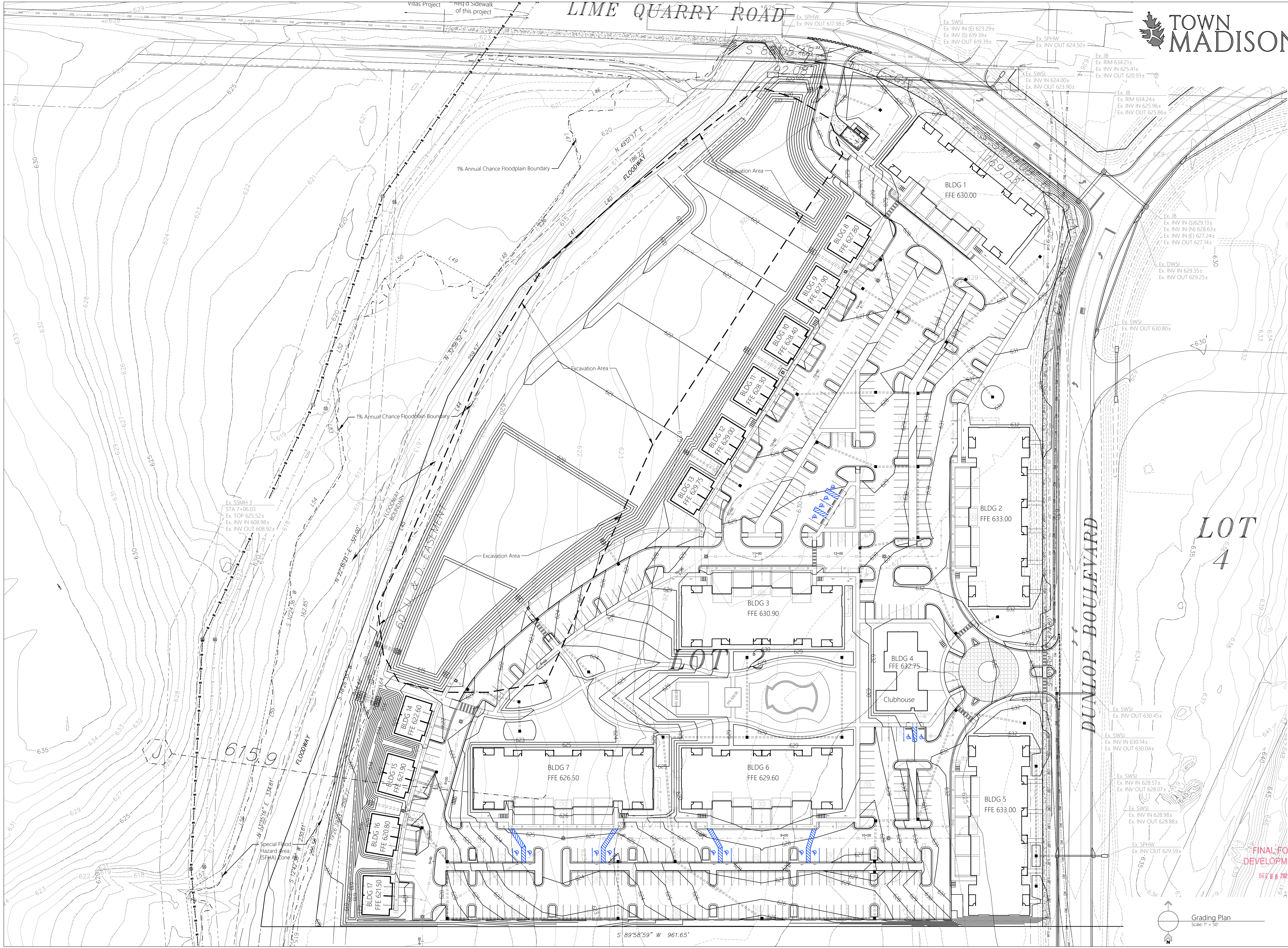


Sanitary Sewer Plan & Profile
Horizontal Scale: 1" = 60'
Vertical Scale: 1" = 12'



Sanitary Sewer Plan & Profile
Horizontal Scale: 1" = 60'
Vertical Scale: 1" = 12'





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The Roberts Apartments at TM
Madison, AL

PREPARED FOR: ---

Overall Grading Plan

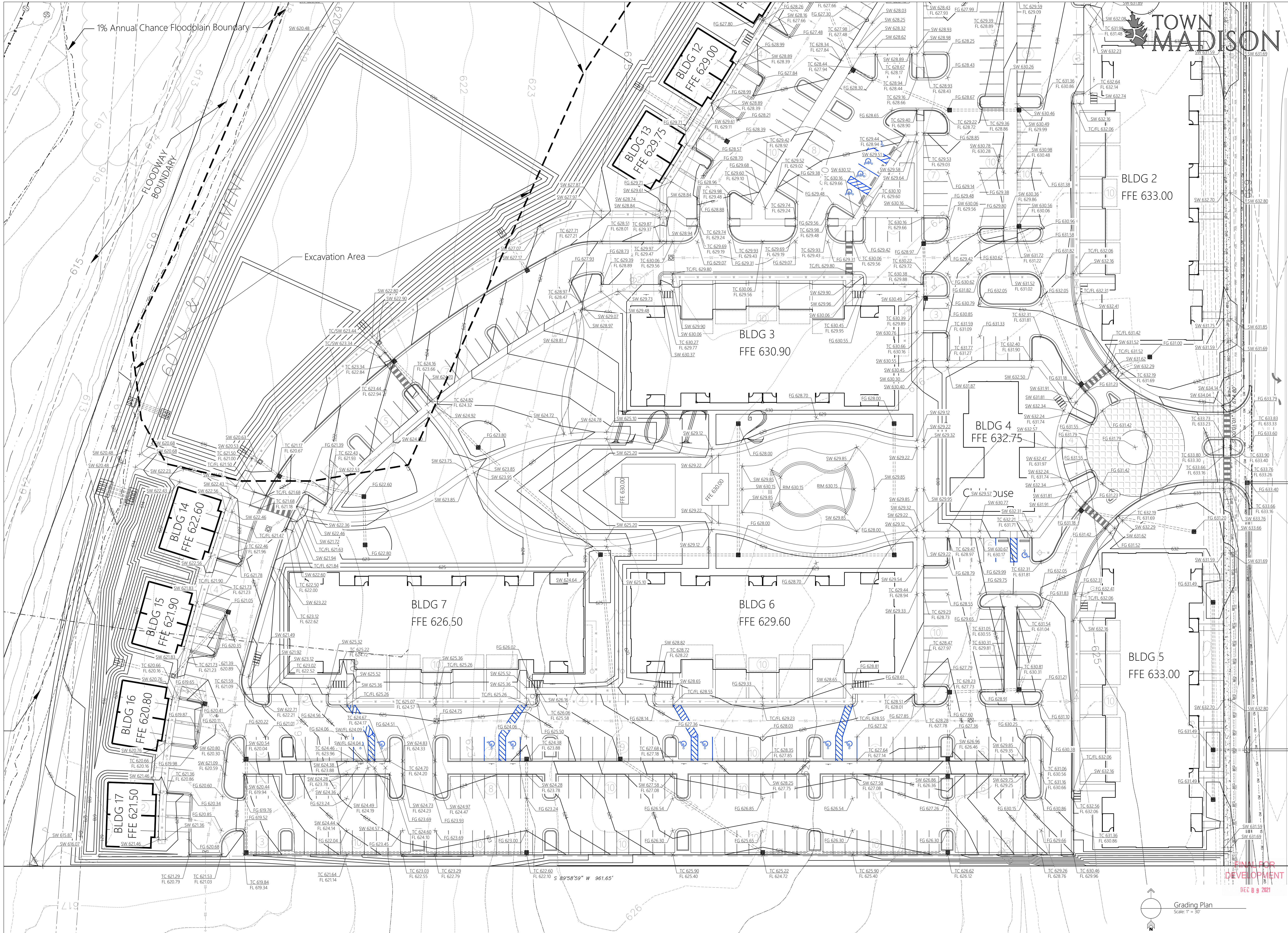
Job No: 21-128
Date: 2021 11-16
Drawn By: JLH
Checked By: RS

SHEET NUMBER

C6

FINAL FOR DEVELOPMENT
DEC 8 2021

Grading Plan
Scale: 1" = 50'



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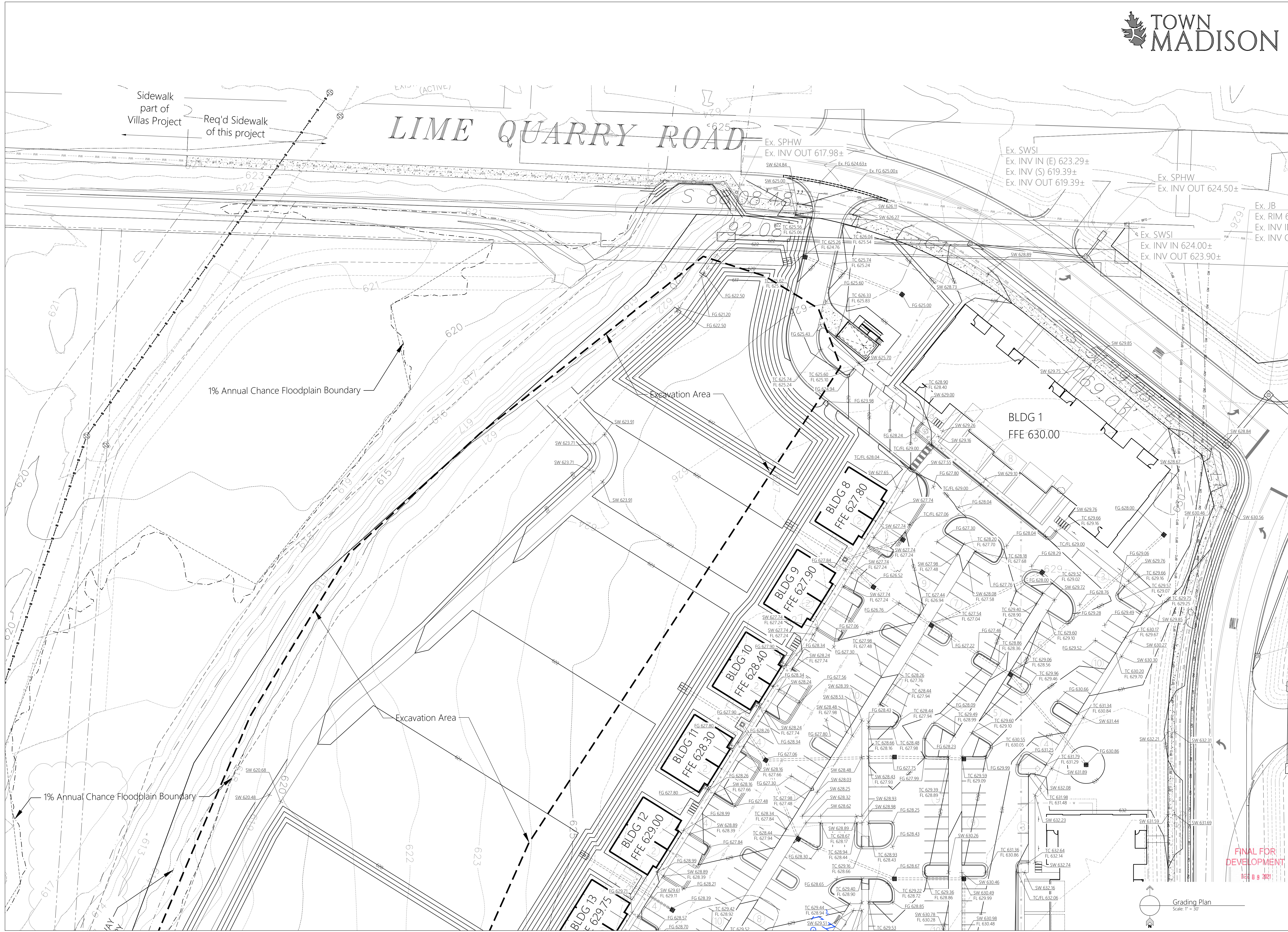
The Roberts Apartments at TM
Madison, AL

Grading Plan

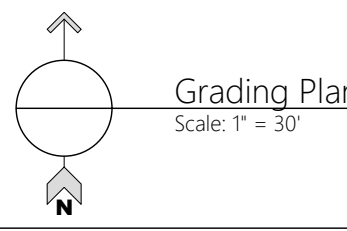
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Date: 2021-11-16
Drawn By: JH
Checked By: RS

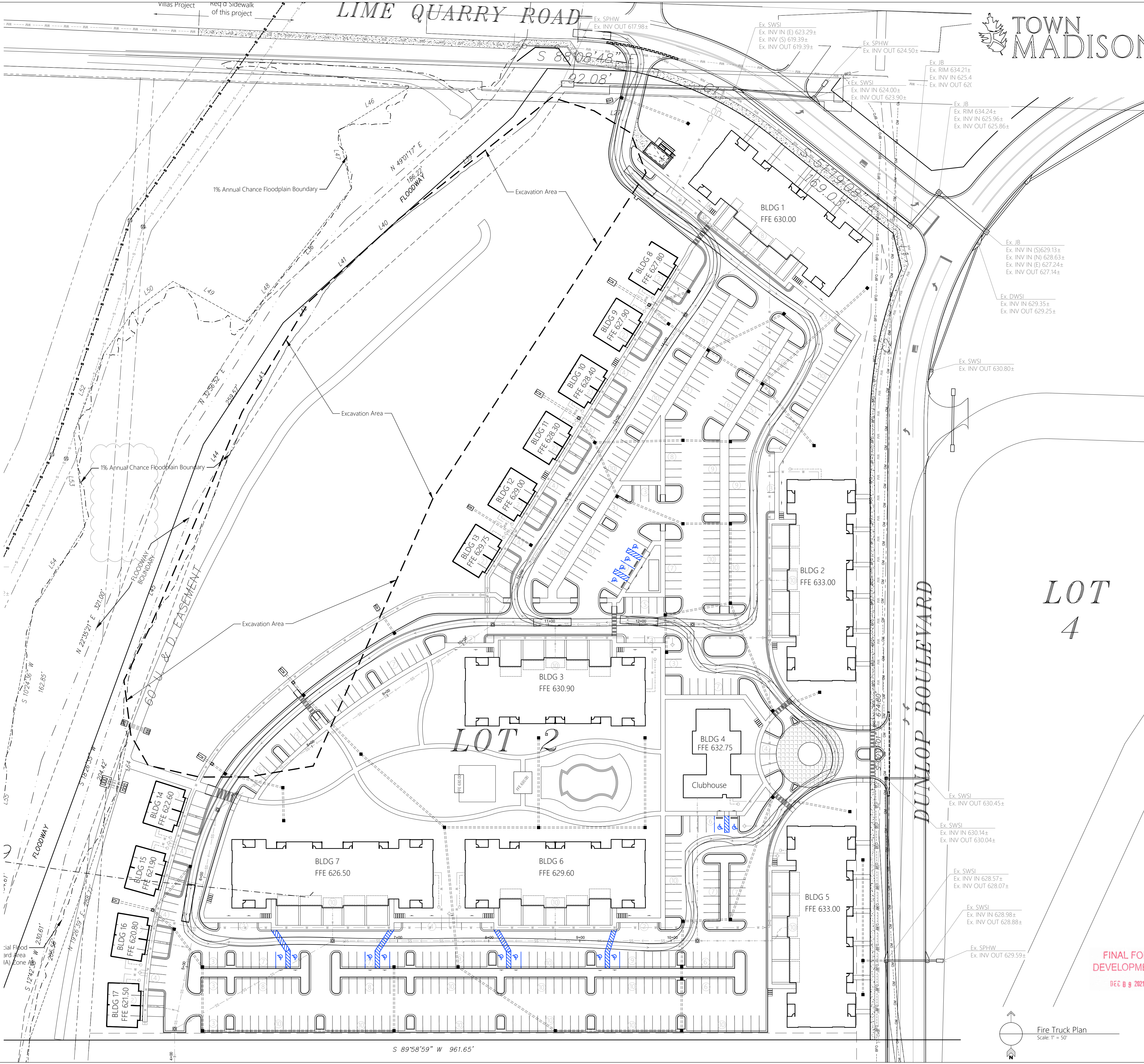
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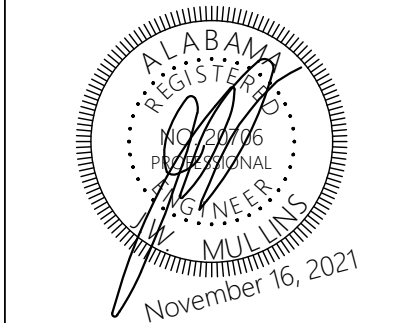


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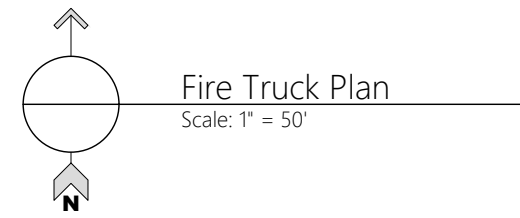
Fire Truck Access Plan

Job No: 21-128
Date: 2021 11-16
Drawn By: JLH
Checked By: RS

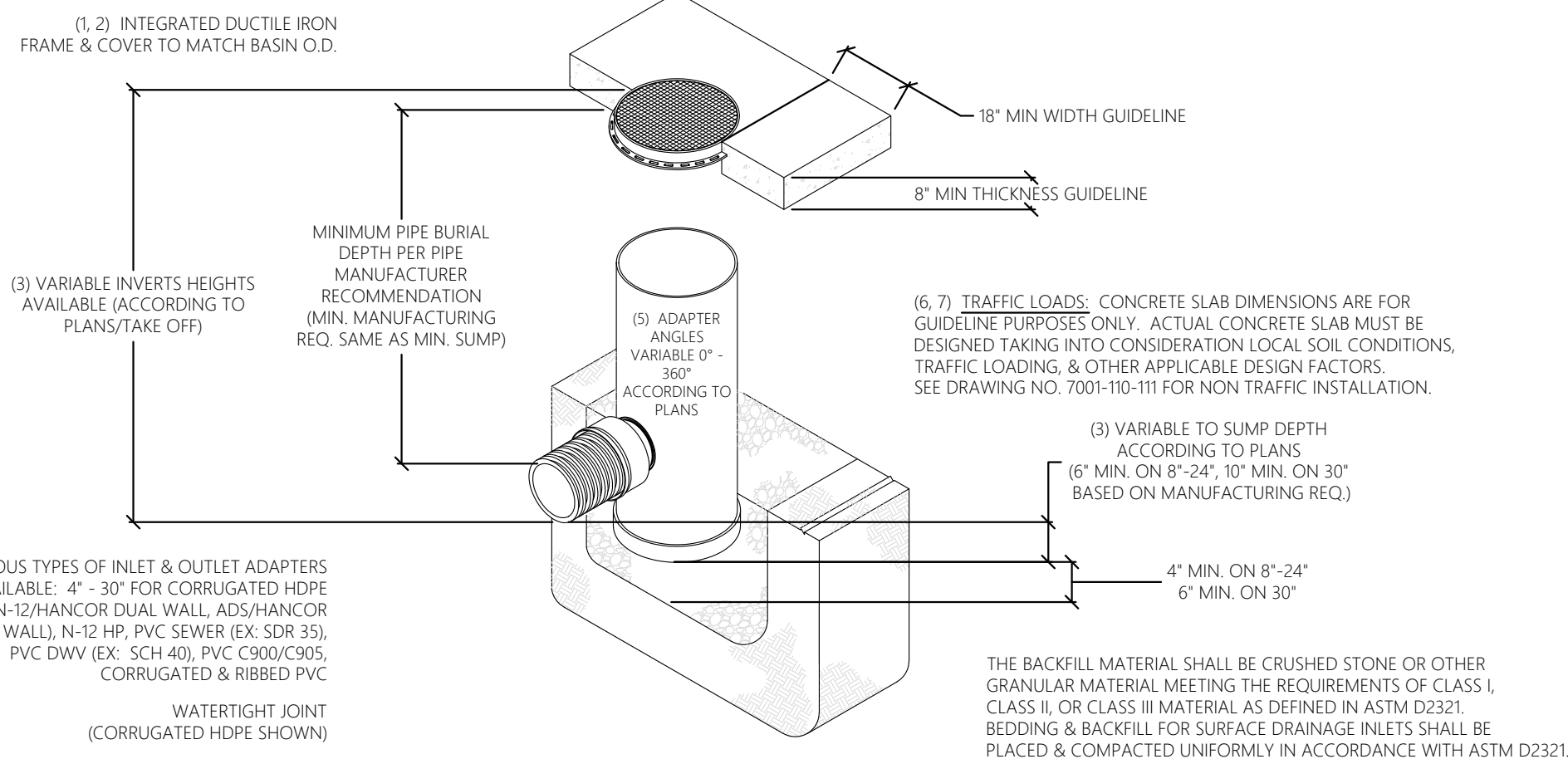
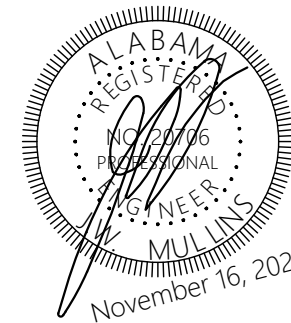
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FINAL FOR
DEVELOPMENT
DEC 9 2021

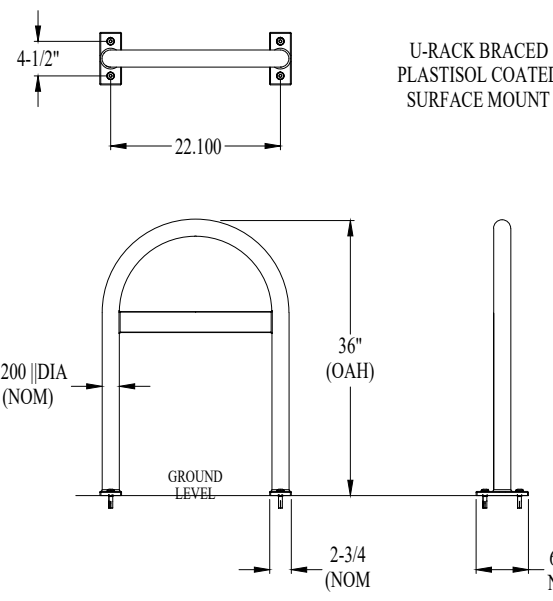
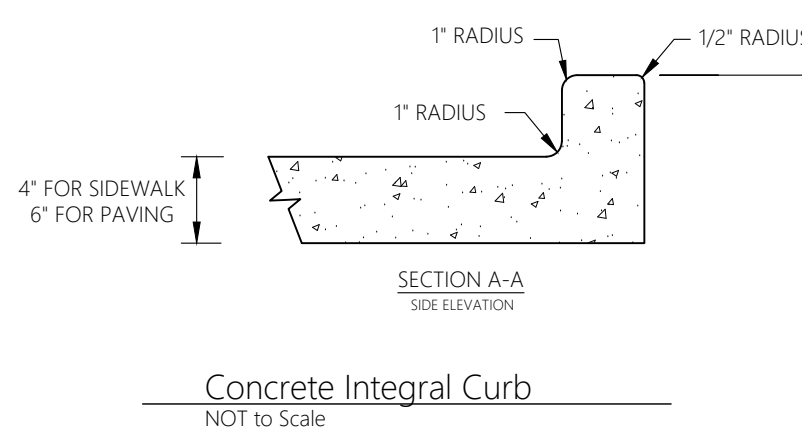
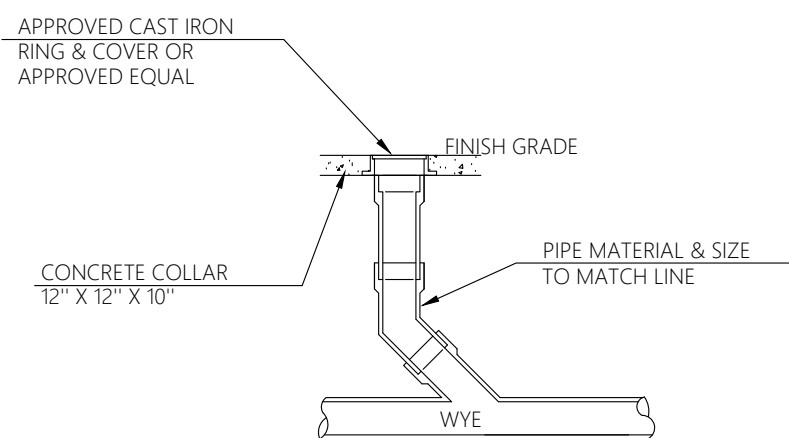
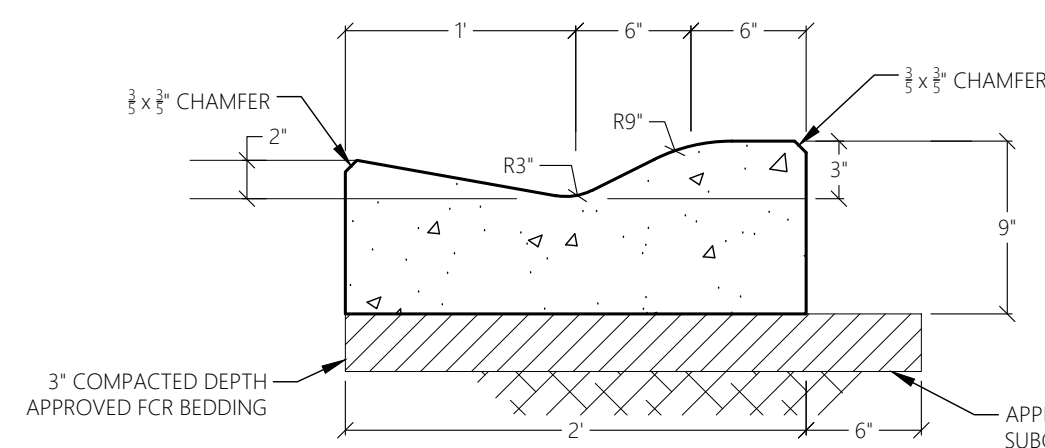


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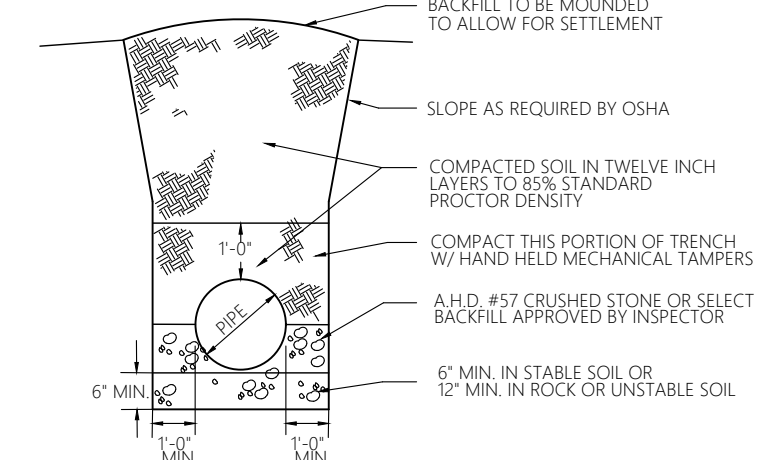
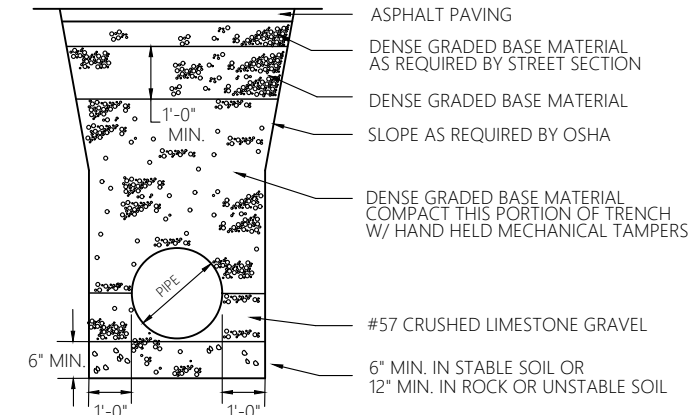
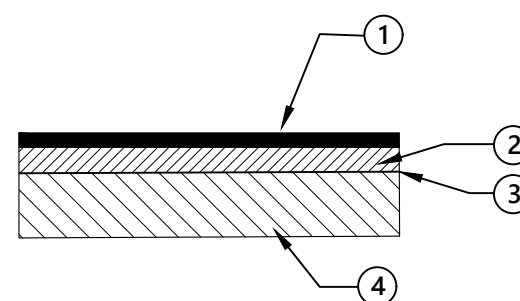
- 1 - 8" - 30" SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- 2 - 12" - 30" FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- 3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-045.
- 4 - DRAINAGE CONNECTION SUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SILVER (4" - 24").
- 5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
- 6 - 12" - 30" SOLID COVERS SHALL MEET H-20 LOAD RATING.
- 7 - 8" & 10" SOLID COVERS ARE RATED FOR LIGHT DUTY APPLICATIONS ONLY. NO CONCRETE COLLAR NEEDED FOR LIGHT DUTY RATING.

Nyloplast Junction-Box
NOT TO Scale

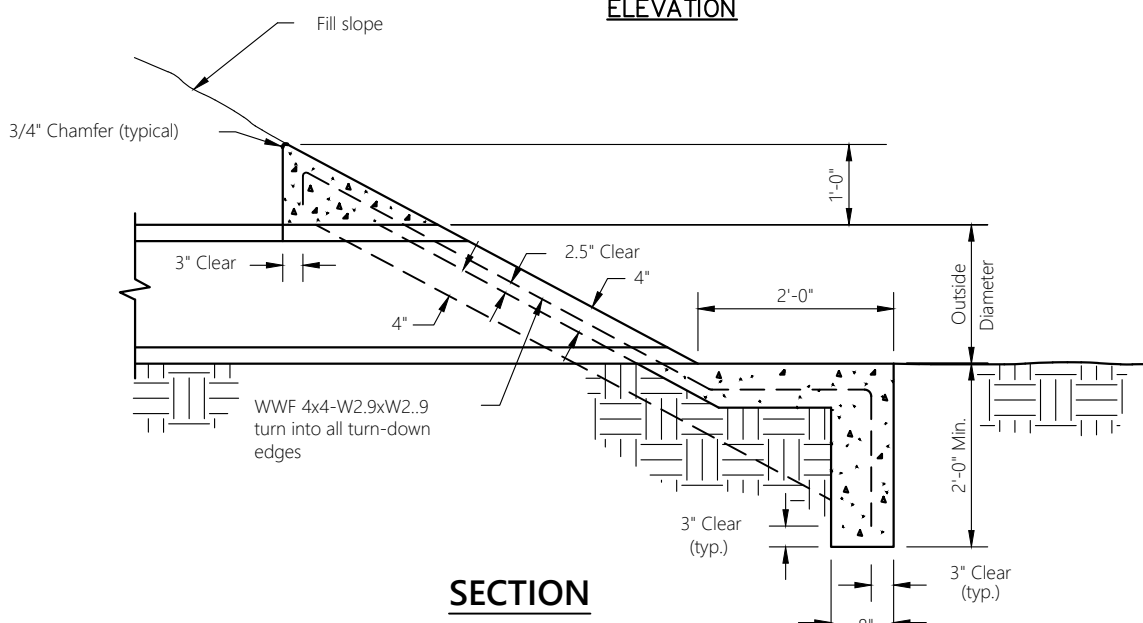
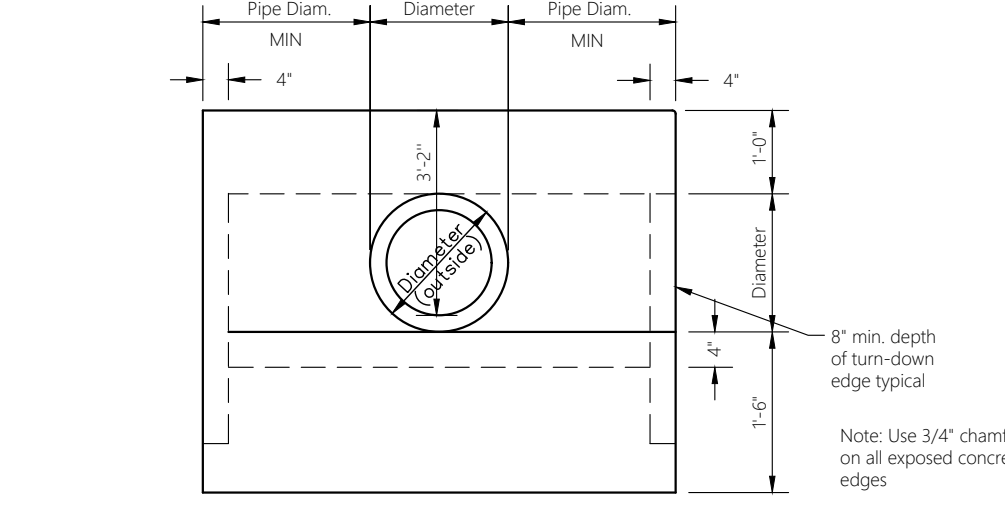


Arcat U-Rack "Braced" 2-Bike Rack Module
NOT TO Scale

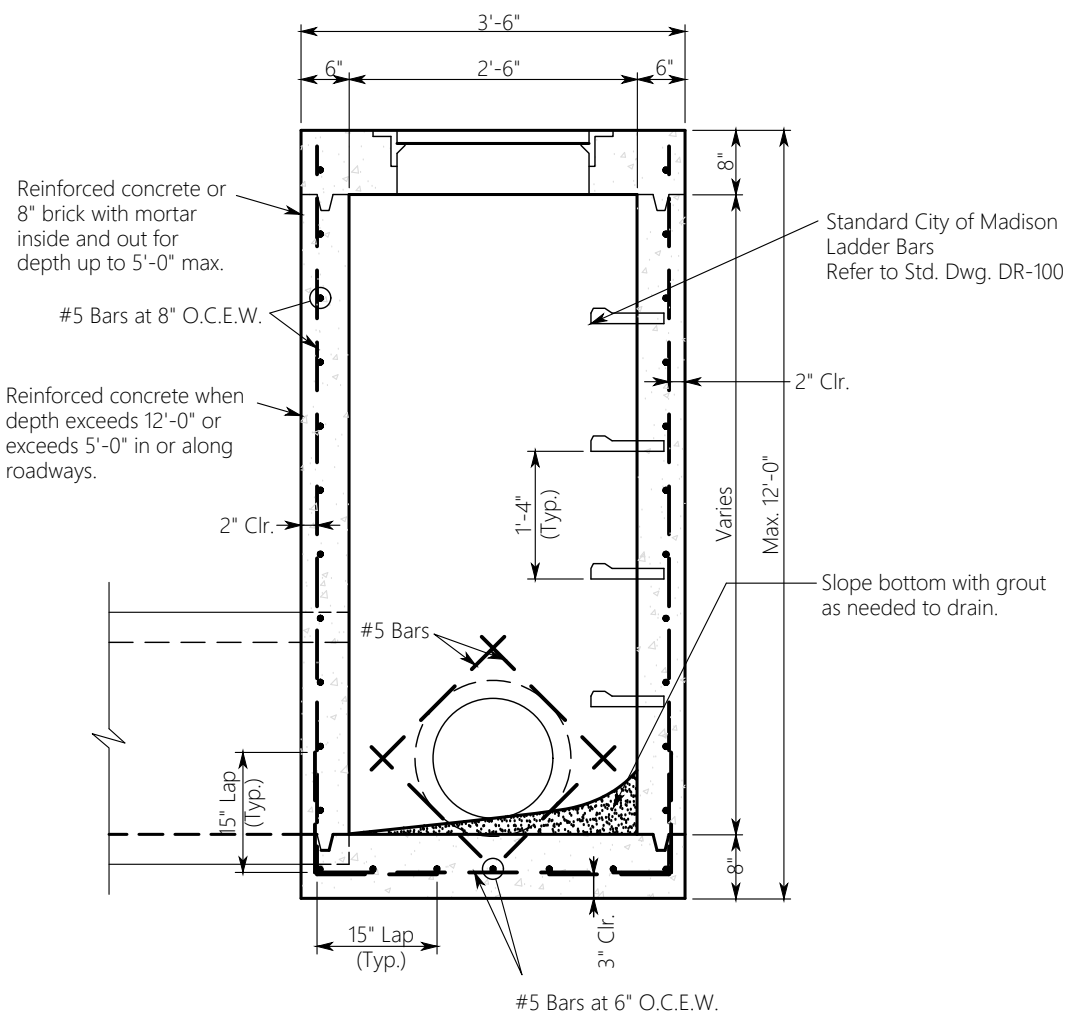
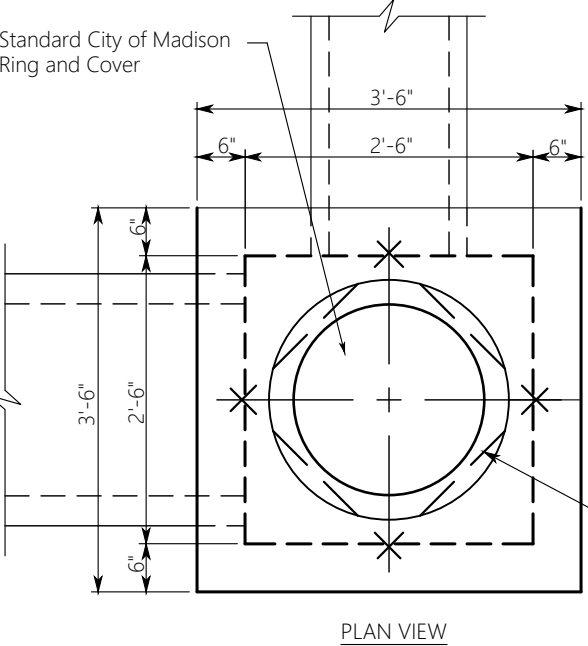
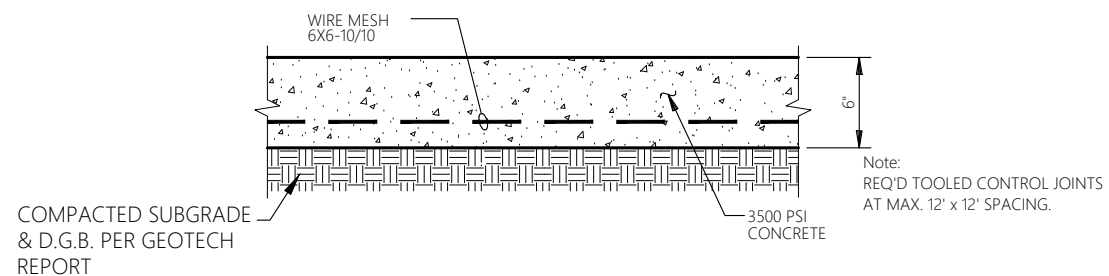
- 1 TO 180 LBS./S.Y. (7) HOT BITUMINOUS CONCRETE WEARING COURSE, ADOPT REF. 494-A, MAX 1 OF SPICES.
- 2 224 LBS./S.Y. (27) HOT BITUMINOUS CONCRETE BINDER COURSE, ADOPT REF. 494-A, MAX 1 OF SPICES.
- 3 0.18 GAL./S.Y. EMULSIFIED ASPHALT OR 0.07 GAL./S.Y. TACK COAT. ALL MATERIALS SHALL BE IN ACCORDANCE WITH SEC. 405 OF THE AL DOT SPECIFICATIONS.
- 4 5" LAYER OF DENSE GRADED LESTONE BASE COURSE. AL DOT REF. 301 OF SPEC. ALL MATERIALS SHALL BE IN ACCORDANCE WITH SEC. 405, TYPE "B", COMPACTION TO 100% LVD.



Storm Pipe Bedding
NOT TO Scale

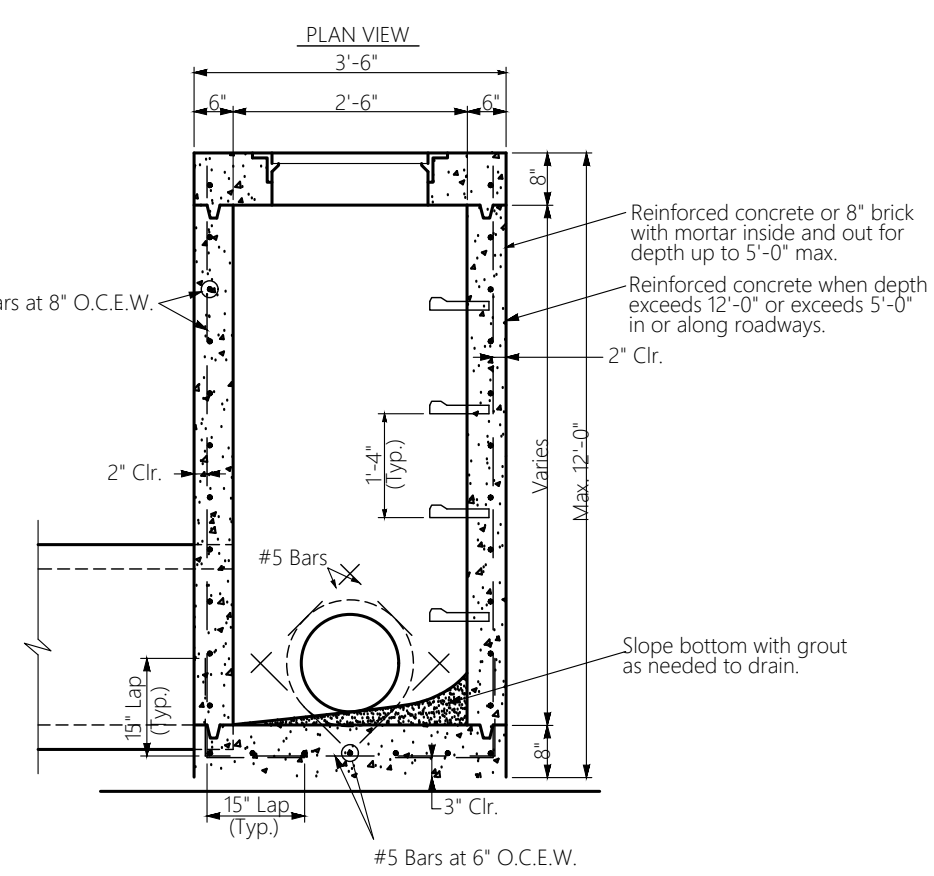
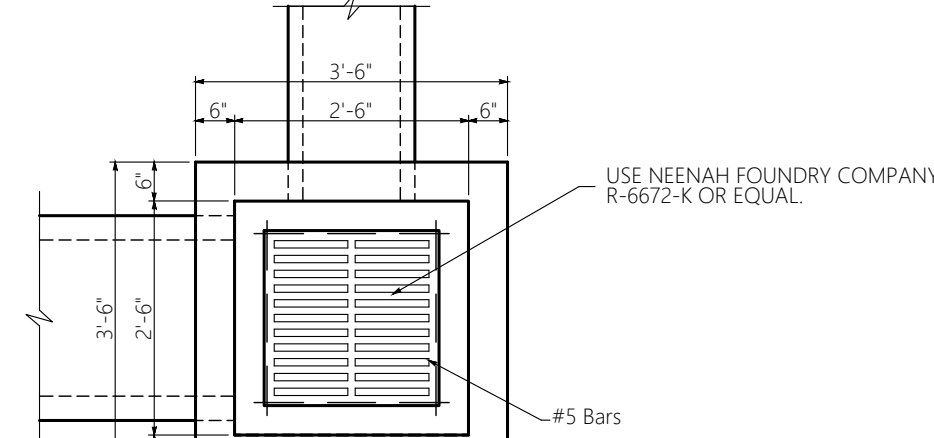


Concrete Sloped Paved Headwall
NOT TO Scale

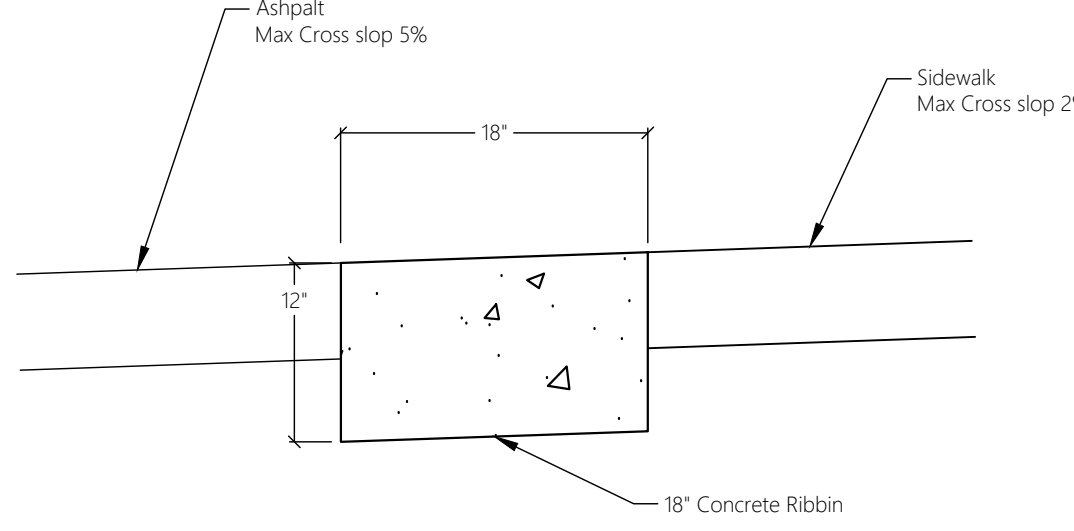


NOTES

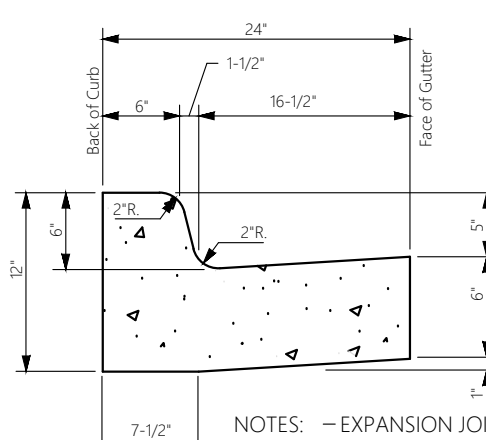
1. All concrete shall be class "A" and shall develop a minimum compressive strength of 3000 PSI in 28 days.
2. Reinforcing shall be grade 60 deformed bars and shall conform to ASTM requirements.
3. Steps are required on all Junction Boxes when dimensions from bottom of top slab to top of bottom slab is greater than 4'-0".



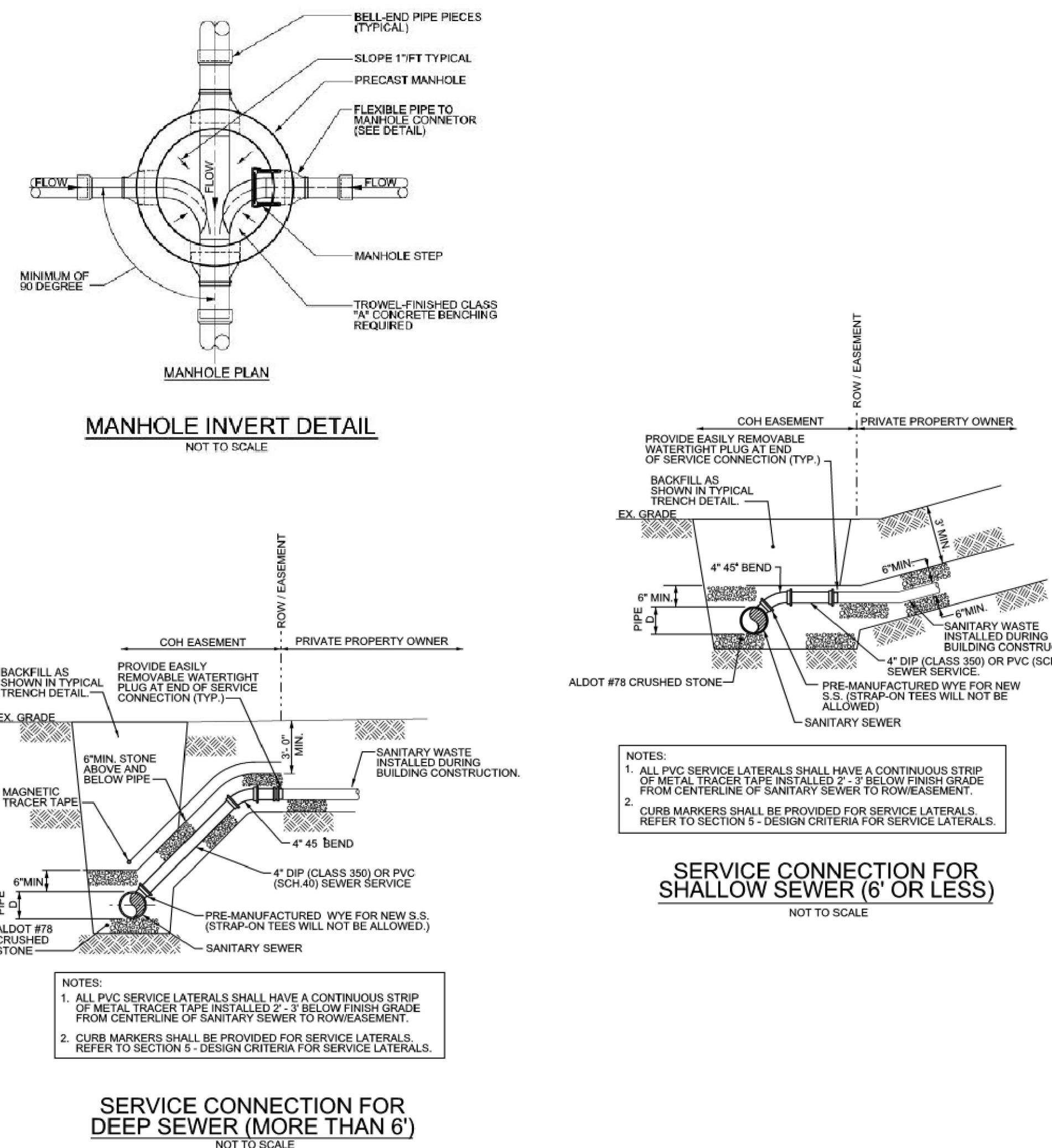
SECTIONAL VIEW



Concrete Ribbin
NOT TO Scale



- NOTES:
- EXPANSION JOINTS REQUIRED AT 75' INTERVALS
 - CONSTRUCTION JOINTS REQUIRED AT 25' INTERVALS
 - 3000 p.s.i. CONCRETE



Irrigation Requirements:

- Piping
 - All irrigation main lines shall be SCH 40 PVC, sized as shown, and shall be buried a min. of 30" below finish grade and installed in trenches with proper identifying tape for in-field location.
 - All irrigation laterals shall be Class 200 PVC and shall be buried a min. of 18" below finish grade.
 - Funny pipe may be used for connection of spray head bodies or dripline to irrigation mains, however, individual funny pipe runs shall not exceed 6'.
 - In all instances where irrigation piping crosses hardscape, irrigation piping shall be installed in a SCH 40 PVC sleeve sized a min. of 2 sizes larger than the largest pipe crossing hardscape.
 - Common trenches may be used for main and lateral piping and wiring.
- Valves
 - System shall have a master valve as part of the controlled irrigation system in location as indicated on Landscape Plan.
 - Master Valve shall be pressure-regulated such that output pressure is ~100 psi.
 - All valves for this system shall be RainBird PESB model with PRS-D pressure regulation module, sized as appropriate for the individual zone for lateral lines or to match the main line for the master valve. System shall be zoned to such that beds and turf areas are not irrigated together, with proximate, similar areas zoned together to minimize zone/valve count, within reason. Zoning/valving shall be included in submitted design for approval by Landscape Architect, prior to beginning installation.
 - All valves shall be fitted with RainBird decoders for communication with two-wire based controller system.
 - All valves shall be installed in RainBird PVB standard or jumbo valve boxes, installed per manufacturer's details, specs, & requirements.

- Landscape Bed Irrigation
 - Landscape Bed zone valves shall be pressure-regulated such that dripline operates at ~40 psi.
 - Landscape beds shall be irrigated by dripline tubing, RainBird model XFS. Dripline tubing may be installed at finish grade, below mulch, or just below finish grade.
 - Shrubs and trees shall, at minimum, have 1 row of dripline along 2 sides of the plants, located generally above the rootball of the plant, as well as 1 row of dripline along 2 sides of the plants, located 1' outside the rootball for shrubs and 3' outside the rootball for trees.

- Quick Couplers
 - Contractor shall install a 1" RainBird quick coupler at each location indicated on Landscape Plan.
 - Quick Couplers shall be piped off of Irrigation Mains.
 - Quick Coupler shall be installed in RainBird PVB standard valve box, per manufacturer's details, specs, & requirements.

- Controller
 - Irrigation controller for this system shall be RainBird ESP-LXD two-wire decoder controller. Location as shown on Landscape Plan. Controller shall be mounted in appropriate RainBird stainless steel pedestal, per manufacturer's requirements and specifications.
 - Contractor shall coordinate with Owner for any communication tie-in to Owner's overall property infrastructure management system.

- Wiring & Grounding
 - All valves shall be connected to the controller by two-wire product which meets or exceeds minimum requirements of controller manufacturer, using DBY connectors installed in gel-filled housing.
 - Grounding, lightning arrestors, and other related fixtures shall be installed per controller manufacturer's details, specs, & requirements. Should the controller manufacturer require certification of grounding measures installation, contractor shall arrange for such inspection and make adjustments as required for certification. Landscape Architect shall be included in all correspondence and inspections.

Landscape/Irrigation Inspections:

- Contractor shall coordinate with Landscape Architect at tree delivery for inspection by Landscape Architect and approval prior to unloading.
- Contractor shall stake, identify, and/or prepare the following for approval by Landscape Architect prior to installation:
 - Finish Grade
 - Tree Locations
 - Bed Lines
 - Landscape Irrigation Main Line
 - All Valve Boxes
 - Quick Couplers
 - Landscape Irrigation Controller

NOTE: Any plant materials that are damaged (by transport, handling, installation, or other construction activities) are rejected and shall be replaced at no cost or delay to the Owner.

Landscape Installation Notes:

- All existing trees outside of the limits of work for this project shall be protected during the construction and installation of these improvements and are not to be damaged in any manner. Any damage to such shall be brought to the attention of the Landscape Architect immediately for determination of appropriate corrective measures, if any. Contractor shall execute said corrective measures at no additional cost to the Owner.
- All areas to receive landscape plantings (trees, shrubs, sod, etc.) shall be backfilled with min. 12" of topsoil from nearby stripped topsoil stockpiles prior to plant material installation or mulching. Placed topsoil shall be worked to remove and/or break-up any large clumps of soil and shall be fine-graded in all areas for a smooth, consistent finish product. Any debris or deleterious materials within the 12" profile of landscape areas shall be removed prior to placing any topsoil. Any debris, large roots, rocks, etc. shall be removed from the topsoil prior to finish-grading efforts.
- Contractor shall stake tree locations and layout bed lines for approval by Landscape Architect prior to installation. Adjust staked locations and bed lines as directed.
- All landscape materials are subject to approval of the Owner or Landscape Architect at any time during the job, up until point of acceptance.
- All plants shall meet standards set forth by the American Standards for Nursery Stock.
- Provide No. 1 grade or better nursery grown stock grown in an approved, recognized nursery in accordance with requirements of applicable standards as noted herein. Provide only healthy, vigorous, stock free of disease, insects, injuries, abrasions crown die-back or disfigurements.
- All trees shall have a single, straight leader (co-dominate leaders are unacceptable) unless otherwise noted. Trees with narrow crotches of included bark, split bark with rolled callus, dead, broken, or flush-out branches will not be accepted. Rootballs shall be firm, neat, slightly tapered and well burlapped. Trees with loose or broken rootballs at time of planting shall be rejected. All trees indicated as B&B/WB in plant schedule shall be balled and burlapped and set in wire basket at time of digging at nursery.
- Plant material transported in open vehicles / trailers is damaged and subject to rejection.
- Any rejected plants shall be removed from the site and replaced by acceptable plants meeting drawings notes & specifications at no additional cost to the owner.
- All plant material, upon delivery to site shall be immediately planted in prepared and prior-approved beds and pits. If contractor is unable to plant within 2 hours of plant delivery to site, plants shall be heeled in, the roots kept moist, and plants otherwise protected and maintained until installation at no cost to the owner.
- All plant material shall be handled by the container or rootball and not by the top growth.
- Plants injured on job site are not acceptable and shall be replaced by contractor at no additional cost to the owner.
- All plant material shall be warranted by Landscape Contractor for a period of one year after final acceptance. Dead or declining plant material shall be rejected and shall be replaced by Landscape Contractor at no cost to the owner. It is the Contractor's responsibility to contact the Owner at the end of the warranty period. If the Contractor fails to notify and meet with the Owner, the warranty period shall continue until the meeting is held, dead or declining plant material is replaced, and the project is accepted by the Owner.
- Trees shall be staked with ArborTie product, min. three (3) per tree, per manufacturer's requirements and recommendations. Tree staking shall be removed from established plants at the end of the warranty period.
- Mulch for trees and shrub beds shall be pine straw, installed to 3" settled thickness. Mulch shall extend min. 4' around trees.
- All trees shall be purchased from the following supplier list, all subject to approval & pre-selection by Owner and/or Landscape Architect:

Hunter Trees	Alpine, AL	(866) 348-6837
Select Trees	Bishop, GA	(706) 743-5124
Bold Spring Nursery	Hawkinsville, GA	(478) 783-4975
- Finish grade shall be approved by Landscape Architect and Owner's representative. All weeds shall be sprayed and removed prior to planting, seeding, and/or sodding.
- All disturbed areas within the project's property and associated ROW shall be fully treated by either:
 - Solid sod shall be planted with Tifton Bermuda over raked and fine-graded finish grade. Full, consistent stand of turf shall be established in all areas designated, prior to landscape acceptance.
 - Landscape Bed area, mulched per notes.
- Ex. turf areas shall be protected as much as is practicable. Any turf areas damaged as part of this work shall be repaired/replaced to match surrounding at no cost to the owner.
- Contractor shall arrange for landscape inspection with Landscape Architect upon completion of installation for final acceptance.

Landscape Design Notes:

Plantings shown on this plan are required as part of the City of Madison's Zoning Ordinance. The plantings shall be installed prior to project Certificate of Occupancy.

This project is expected to have a full landscape design and implementation which will be handled by contractor direction and/or Supplemental Landscape Plan. Such plantings are not required by the Municipality and are, therefore, not subject to review/approval by such and are not included herein.

Contractor is to coordinate with Owner/Engineer/Landscape Architect to include such plantings in any pricing/bids put forth on this project.

Grand Avenue Site Furnishings:

The following are required at each location indicated:

- 4' x 12' x 4" thick Conc. Pad
- Bench -- "Harpo" as manufactured by LandscapeForms 69" length with aluminum slats
- Litter Receptacle -- "Poe" as manufactured by LandscapeForms

Both bench and receptacle shall be installed per manufacturer's requirements and recommendations, mounted to concrete pad.

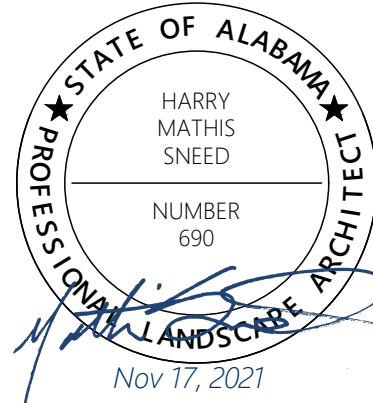
Plant List

Key Scientific name	Common Name	Min. Size	Condition	Notes
Trees				
ARB <i>Acer rubrum</i> 'Brandywine'	Brandywine Red Maple	3.5" Caliper	B&B / WB	Full & Matched
LSF <i>Lagerstroemia x Sarah's Favorite</i>	Sarah's Favorite Cape Myrtle	12" Height	B&B / WB	3- or 5-cane Only, Full & Matched
MVG <i>Magnolia virginiana</i> 'Australis'	Australis Bay Magnolia	3.5" Caliper	B&B / WB	3- or 5-cane Only, Full & Matched
QLR <i>Quercus lyrata</i> 'QLR510' P.P.A.F.	Resilience Overcup Oak	3.5" Caliper	B&B / WB	Full & Matched
QTN <i>Quercus nuttallii</i> 'QNT510' P.P. #16,254	Sangria Nuttall Oak	3.5" Caliper	B&B / WB	Full & Matched
UAP <i>Ulmus americana</i> 'Princeton'	Princeton American Elm	3.5" Caliper	B&B / WB	Full & Matched

Decorative Grasses

JGC <i>Juniperus x pfitzeriana</i> 'Aurea Improved'	Gold Coast Juniper	5 Gal. and 18" hgt.	Container	Full & Matched
LES <i>Loropetalum chinense</i> 'Shang-white'	Emerald Snow Loropetalum	5 Gal. and 18" hgt.	Container	Full & Matched
LRD <i>Loropetalum chinense</i> 'Shang-Red'	Red Diamond Loropetalum	7 Gal. and 36" hgt.	Container	Full & Matched
TGZ <i>Cleyera japonica</i> 'Conthery'	Bronze Beauty Cleyera	7 Gal. and 36" hgt.	Container	Full & Matched

CSL <i>Coriaria selonica</i>	Selloa Pampasgrass	5 Gal. and 30" hgt.	Container	Full & Matched
MSA <i>Miscanthus sinensis</i> 'Adagio'	Adagio Fountain Grass	5 Gal. and 24" hgt.	Container	Full & Matched
MCL <i>Muhlenbergia capillaris</i> 'Lenca'	Royal Mist Pink Muhly Grass	3 Gal. and 18" hgt.	Container	Full & Matched
MLL <i>Muhlenbergia lindheimeri</i> 'Leni'	Autumn Glow Muhly Grass	3 Gal. and 18" hgt.	Container	Full & Matched



Req'd PVA Landscape Calculations:

Grand Avenue	733 LF
Total Length	
Req'd Trees	9 (1 tree / 50 LF)
Provided Trees	9
Perimeter	
Total Length	979 LF
Req'd Trees	20 (1 tree / 50 LF)
Req'd Shrubs	120 (6 shrubs / 50 LF)
Provided Trees	20
Provided Shrubs	120
Interior	
Req'd LS Area	8,352 sf (464 spaces x 18 sf)
Req'd Trees	42 (1 tree / 200 sf)
Req'd Shrubs	168 (4 shrubs / 200 sf)
Provided LS Area	8,500+ sf
Provided Trees	42
Provided Shrubs	172



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MULLINS, LLC
CIVIL ENGINEERING, DEVELOPMENT DESIGN
SURVEYING, LANDSCAPE ARCHITECTURE
2101 West Clinton Avenue, Suite 503, Huntsville, AL 35895
(256) 690-5312

The Roberts Apartments at Town Madison
Madison, AL

PVA Landscape Plan

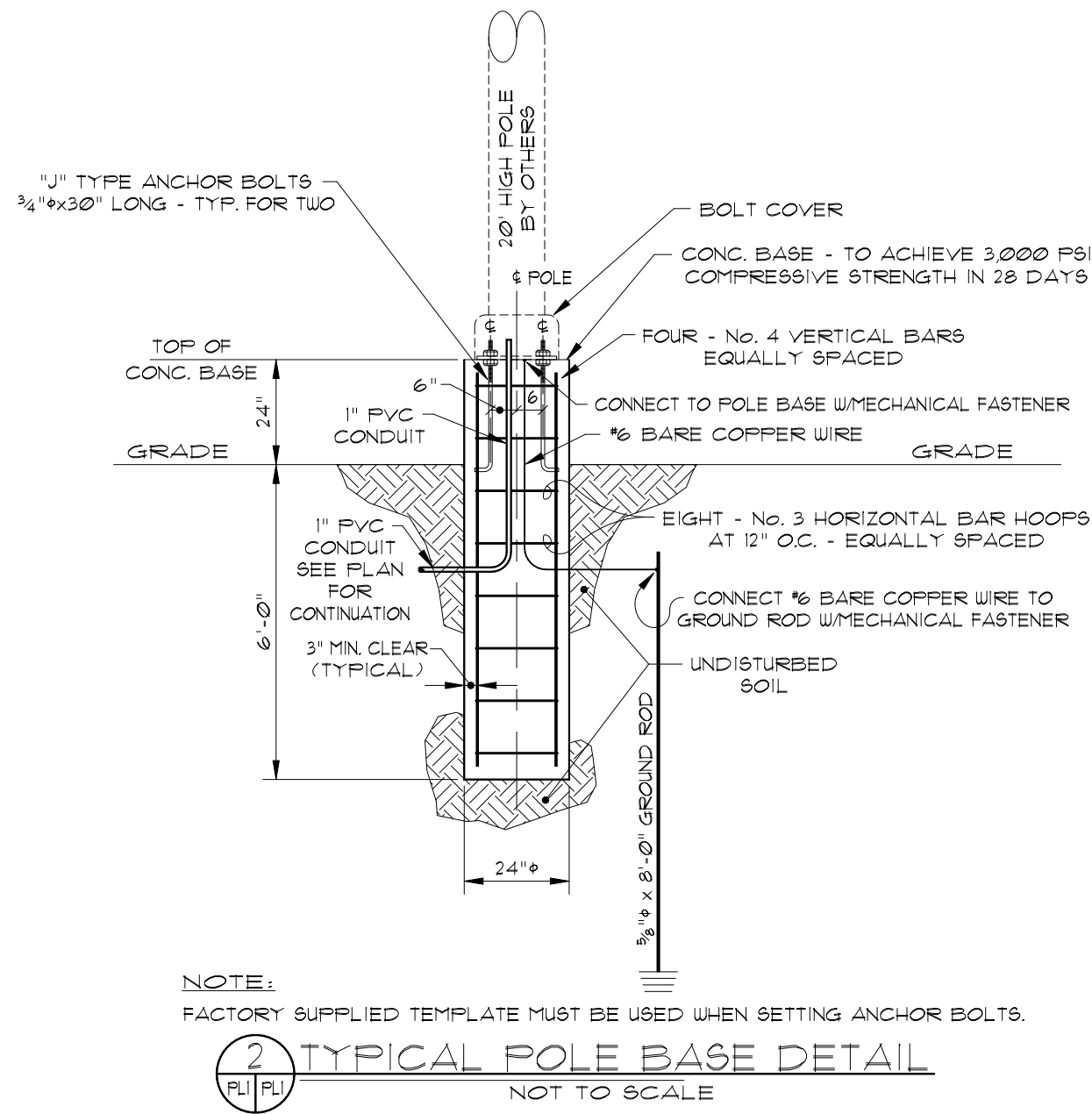
Job No: 21-128
Date: 2021/11/17
Drawn By: HMS
Checked By: HMS

SHEET NUMBER

L1

LIGHTING NOTES

- 1. VERIFY EXACT LOCATIONS WITH OWNER'S REPRESENTATIVE BEFORE ROUGHING IN.
- 2. CONTRACTOR SHALL CHECK ALL LIGHTING FIXTURES FOR EXACT MOUNTING TYPE AND SPACE REQUIRED BEFORE ROUGHING IN.
- 3. ELECTRICAL CONTRACTOR SHALL WORK CLOSELY WITH THE OWNER'S REPRESENTATIVE, TO VERIFY EXACT TYPE OF EQUIPMENT TO BE INSTALLED, AND THE DIMENSIONS WHICH MAY EFFECT THE EXACT PLACEMENT OF ELECTRICAL WORK.
- 4. FURNISH AND INSTALL LAMPS AS WITH FIXTURES.
- 5. ALL WORK SHALL BE IN COMPLIANCE WITH NFPA 70, AND THE CITY OF MADISON LIGHTING ORDINANCE REQUIREMENTS.



LUMINAIRE SCHEDULE

Symbol	Label	Qty	Lum. Watts	Lum. Lumens	LLF	Arrangement	Description
	A	8	147	22020	0.95	SINGLE	RSX2-LED-P3-40K-R4-MVOLT-SPA-DDBXD Mounted on 25" Sq Steel Pole
	B	3	244	31073	0.95	SINGLE	RSX2-LED-P6-40K-R5-MVOLT-SPA-DDBXD Mounted on 25" Sq Steel Pole
	C	10	374	25667	0.95	SINGLE	RSX2-LED-P4-40K-R5-MVOLT-SPA-DDBXD Mounted on 25" Sq Steel Pole
	D	2	312	41525	0.95	SINGLE	RSX3-LED-P4-40K-R5-MVOLT-SPA-DDBXD Mounted on 25" Sq Steel Pole

CALCULATION SUMMARY

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Parking and Driveways	Illuminance	Fc	2.5	6.1	0.8	3.1:1	7.6:1
Spillover	Illuminance	Fc	0.1	0.9	0.0	N.A.	N.A.

FINAL FOR DEVELOPMENT

REC'd 9/2021 50'

GRAPHIC SCALE: 1"=50'-0"

Sept. 20, 2021 - 05:39:57

REVISIONS BY

PROJECT TITLE:

ROBERTS APARTMENTS
INTERDUNLOP BLVD/LIME QUARRY
MADISON, ALABAMA

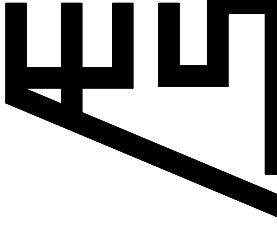
SHEET TITLE:

PARKING LOT LIGHTING
PLAN, NOTES AND LEGEND



ASSOCIATED
ENGINEERING

SERVICES
HUNTSVILLE, ALABAMA



DATE: SEP 2021

SCALE: 1"=50'-0"

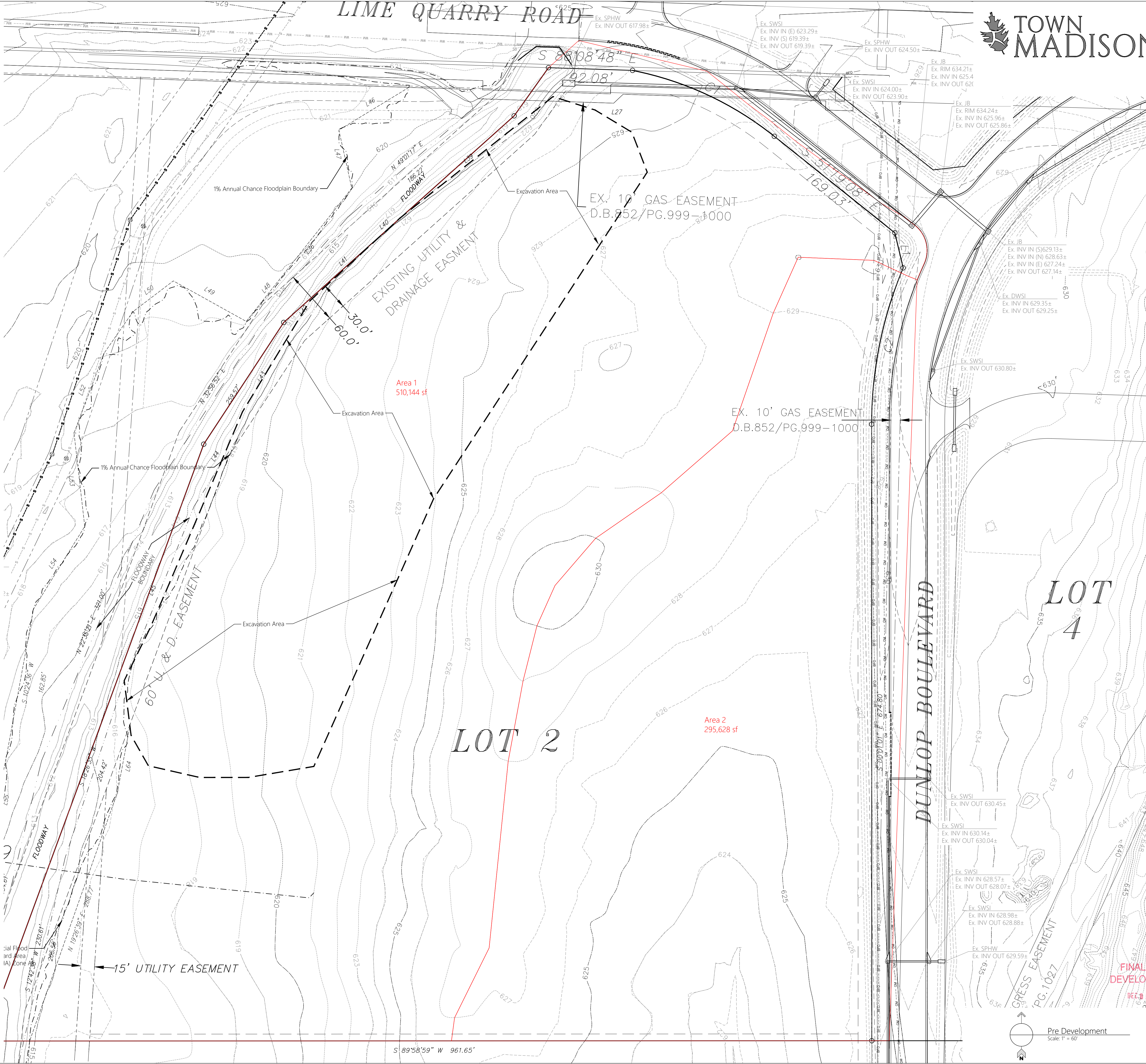
DRAWN: N.A. Snow

JOB: P-21135

SHEET

OF --- SHEETS

P135-PL1



REVISIONS	
DATE	DATE
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CIVIL ENGINEERING, DEVELOPMENT DESIGN
SURVEYING, LANDSCAPE ARCHITECTURE
201 West Clinton Avenue, Suite 503, Huntsville, AL 35895
(256) 690-5312

The Roberts Apartments at TM
Madison, AL

PREPARED FOR: ---

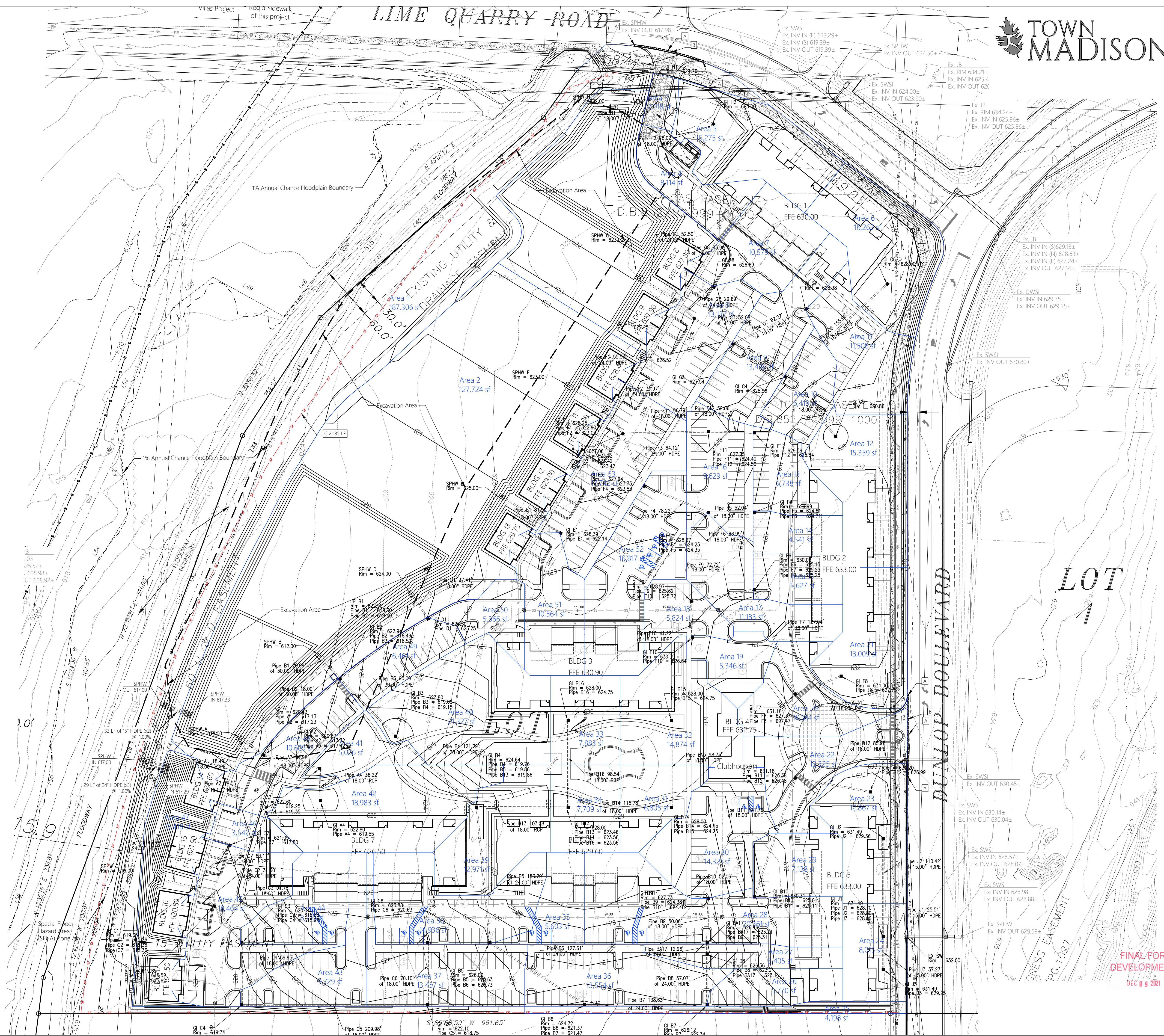
Pre Development
Drainage Map

Job No: 19-177
Date: 2021 9-21
Drawn By: JLH
Checked By: RS

SHEET NUMBER
D1

FINAL FOR
DEVELOPMENT
07-23-2021

Pre Development
Scale: 1" = 60'



REVISIONS	
DATE	DATE
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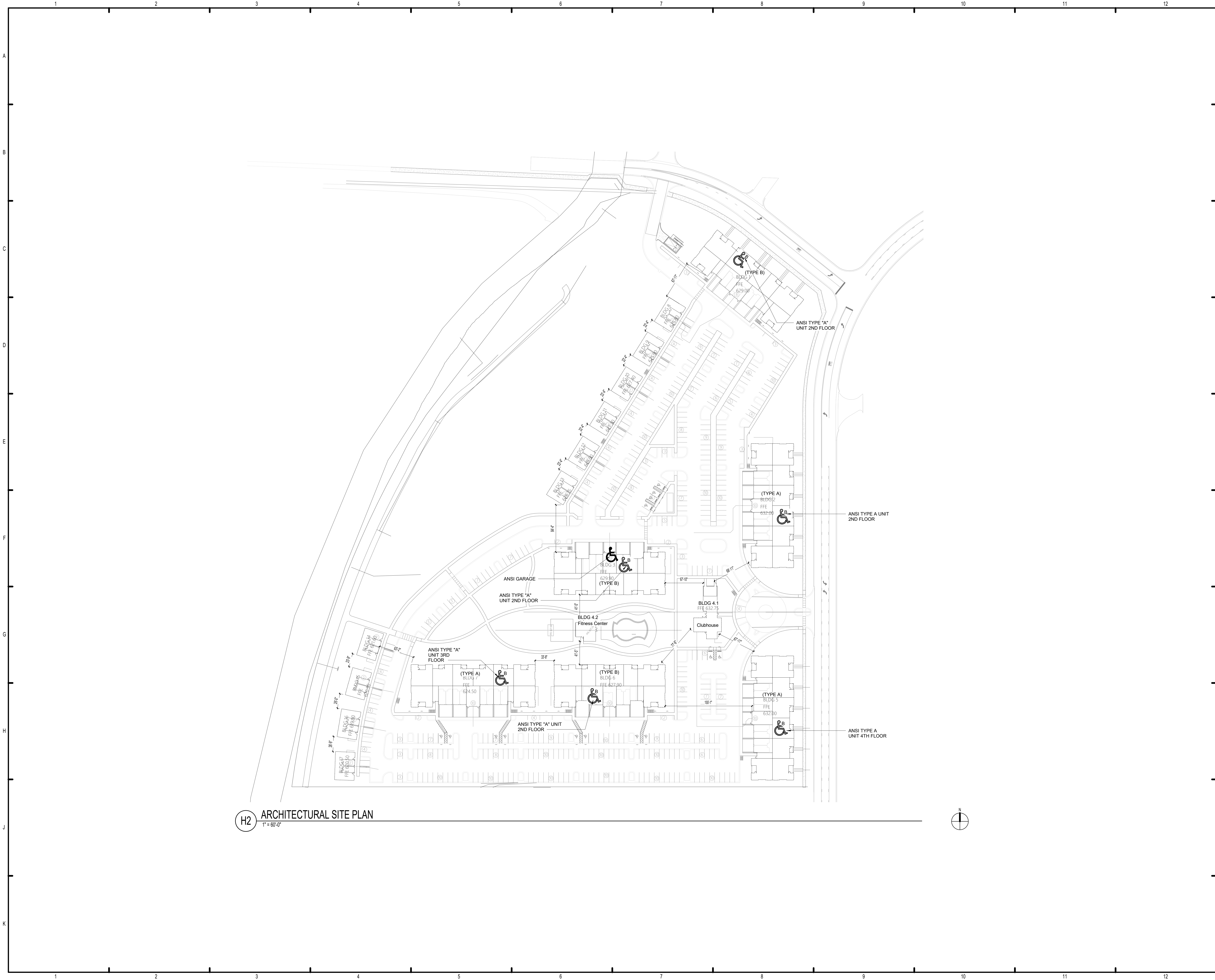
201 West Clinton Avenue, Suite 503, Huntsville, AL 35805
(256) 690-5312

The Roberts Apartments at TM
Madison, AL

Post Development
Drainage Map

Job No: 19-177
Date: 2021-9-21
Drawn By: J.L.H.
Checked By: R.S.

SHEET NUMBER
D2



H2 ARCHITECTURAL SITE PLAN
1" = 60'-0"

GENERAL NOTES:

- SEE CIVIL PLAN FOR PARKING SUMMARY.
- THIS SITE PLAN IS FOR ARCHITECTURAL INFORMATION ONLY. SEE CIVIL & LANDSCAPE DOCUMENTS FOR SPECIFIC BUILDING LOCATION & OTHER SITE REQUIREMENTS. SEE LANDSCAPE DRAWINGS UNDER SEPARATE COVER FOR SITE CONFIGURATION, LAYOUT, GRADING AND RELATED INFORMATION.
- THE SWIMMING POOL(S) SHOWN ON THE DRAWINGS ARE PROVIDED FOR GENERAL LOCATION AND SHAPE SUGGESTION PURPOSES ONLY. FUGLEBERG KOCH LLC IS NOT QUALIFIED TO PROVIDE SERVICES FOR POOLS AND MAKES NO ATTEMPT TO DO SO. POOL DESIGN DOCUMENTS FOR CONSTRUCTION, CODE COMPLIANCE, AGENCY APPROVALS, CONSTRUCTION CERTIFICATION AND OTHER SERVICES REQUIRED FOR THE POOL(S) SHALL BE PERFORMED BY OTHERS UNDER THE SEPARATE CONTRACT WITH THE OWNER.

LEGEND:

- M.C METER CENTER, APROX 2000 AMP LOAD PER NEC
- ANSI TYPE 'A' UNIT
- ANSI TYPE 'A' UNIT 2ND FLOOR

ISSUE HISTORY

No.	Date	Description
1	04/15/2022	PERMIT SUBMITTAL

REVISION HISTORY

No.	Date	Description

FUGLEBERG KOCH

2555 Temple Trail, Winter Park, FL 32789 (407) 629-0595
www.fuglebergkoch.com AA26002103

CONSULTANT

STATE OF ALABAMA
MICHAEL E. DOVE
8234
4/15/22
REGISTERED ARCHITECT

MICHAEL DOVE
8234

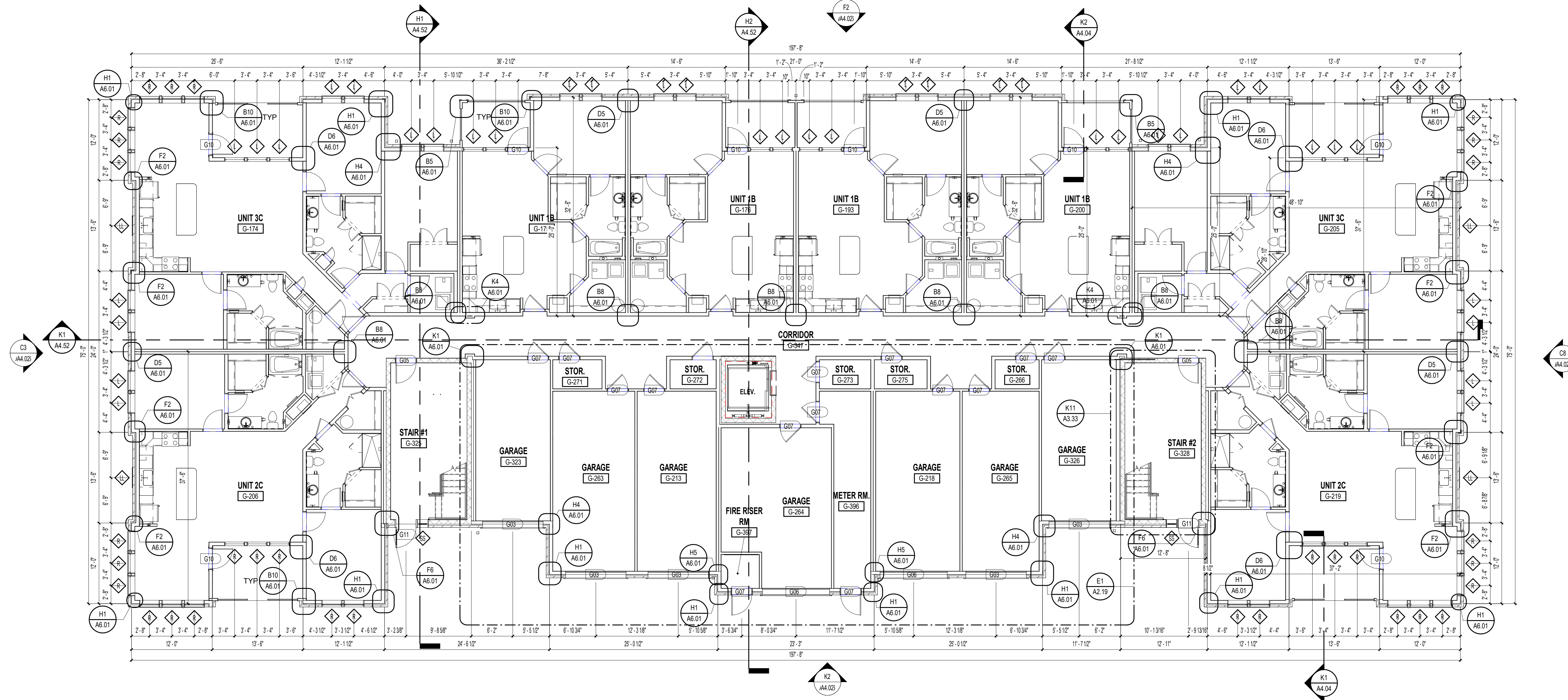
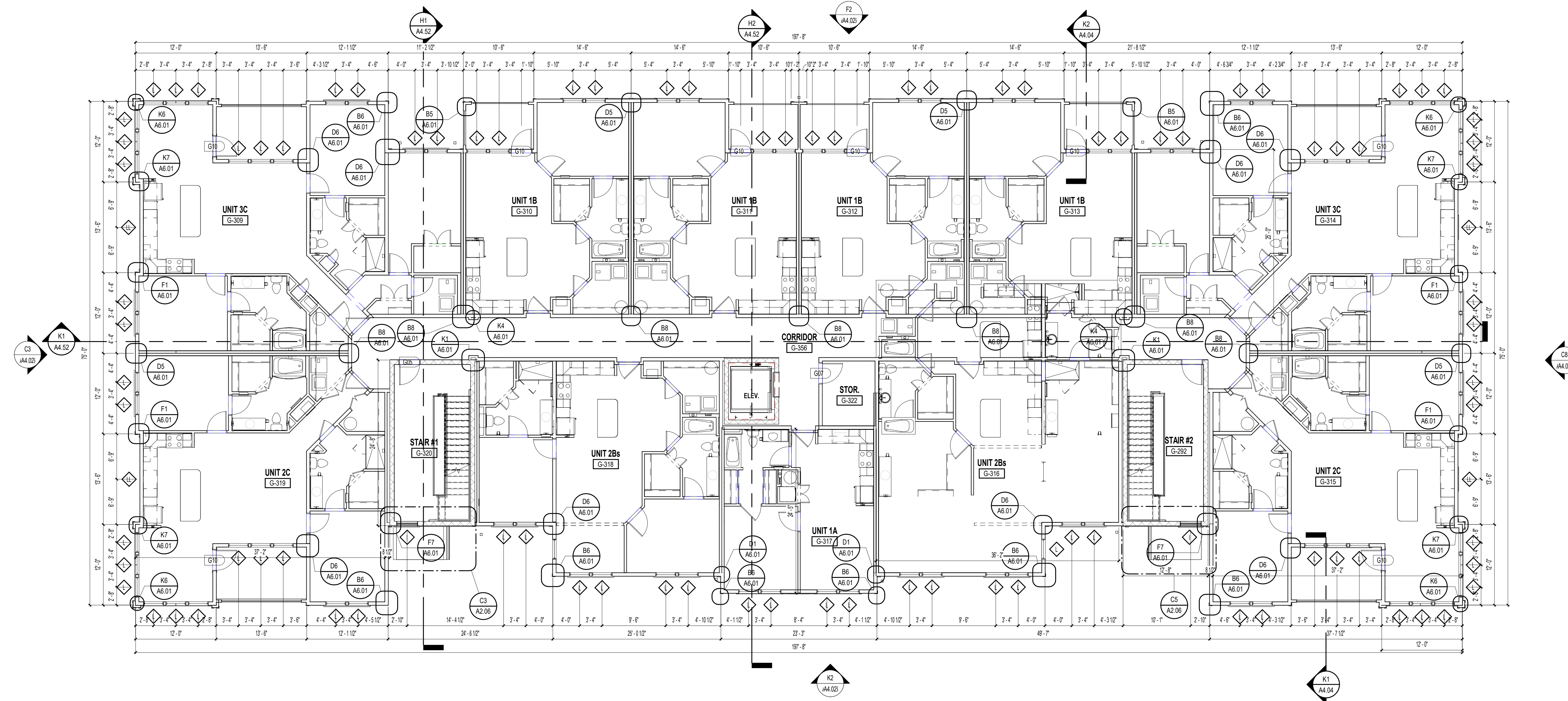
THE ROBERT MADISON

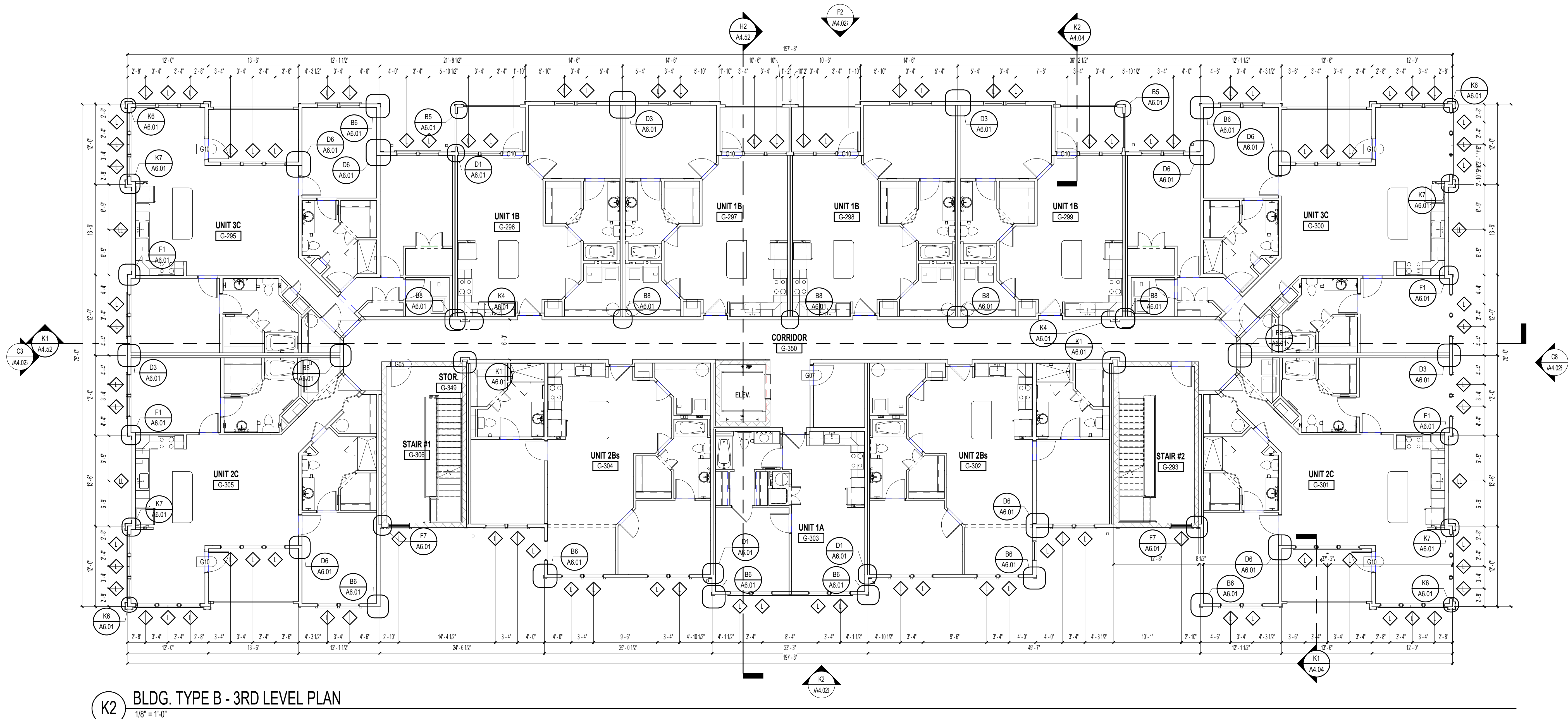
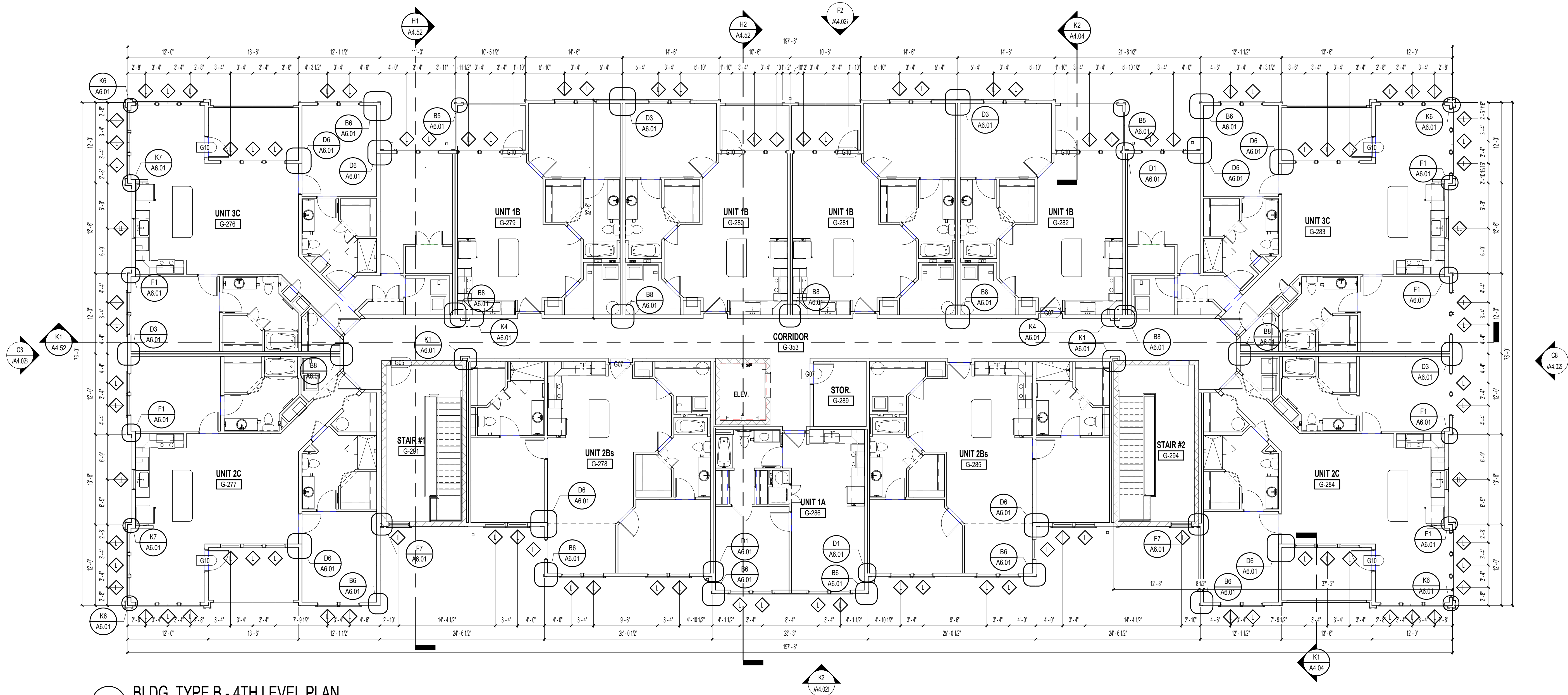
MADISON, ALABAMA

Drawn: MB
Checked: JK
Approval: MS
Date: 04/15/2022
Project #: 5722

ARCHITECTURAL SITE PLAN

A1.01





FLOOR PLAN NOTES:

01. EXTERIOR DIMENSIONS ARE FROM EXTERIOR FACE OF STUD TO EXTERIOR FACE OF STUD. WHEN A TENANT WALL OCCURS, DIMENSIONS ARE TAKEN TO THE CENTERLINE. ALL OTHER DIMENSIONS ARE FROM OUTSIDE FACE OF STUD UNLESS NOTED OTHERWISE. SEE UNIT PLANS FOR FURTHER DIMENSIONS.
02. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
03. SEE A300 SERIES SHEETS FOR UNIT PLAN INFORMATION.
04. CONTRACTOR TO COORDINATE FLOOR & CEILING CONTROL JOINT PLACEMENT COMMON AREA AT 8'-0" MAX ON CENTER WHERE POSSIBLE.
05. SEE CIVIL PLANS FOR ACTUAL FINISH FLOOR ELEVATIONS.
06. REFER TO CIVIL DWGS. FOR SIDEWALK CONDITIONS.
07. REFER TO ELEVATIONS AND FLOOR PLANS FOR WINDOW TYPES AND LOCATIONS.

ISSUE HISTORY

No.	Date	Description
1	04/15/2022	PERMIT SUBMITTAL

REVISION HISTORY

No.	Date	Description

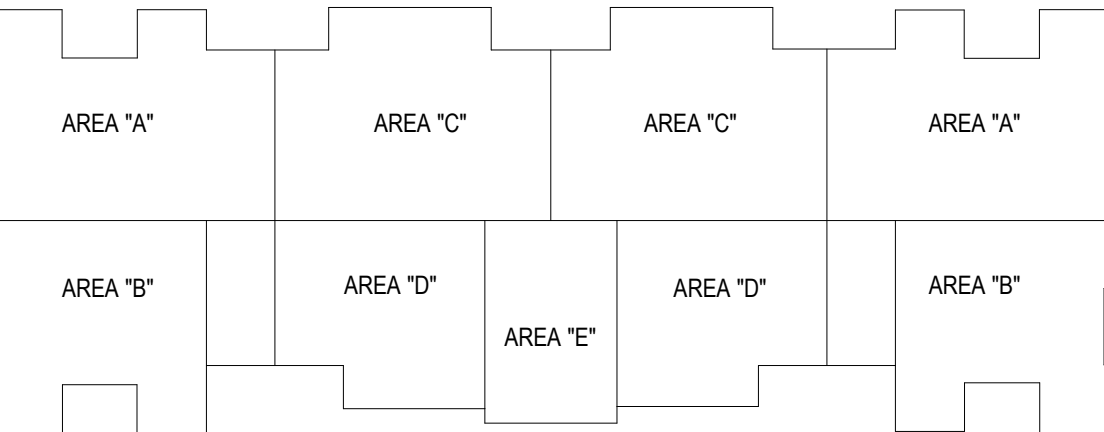
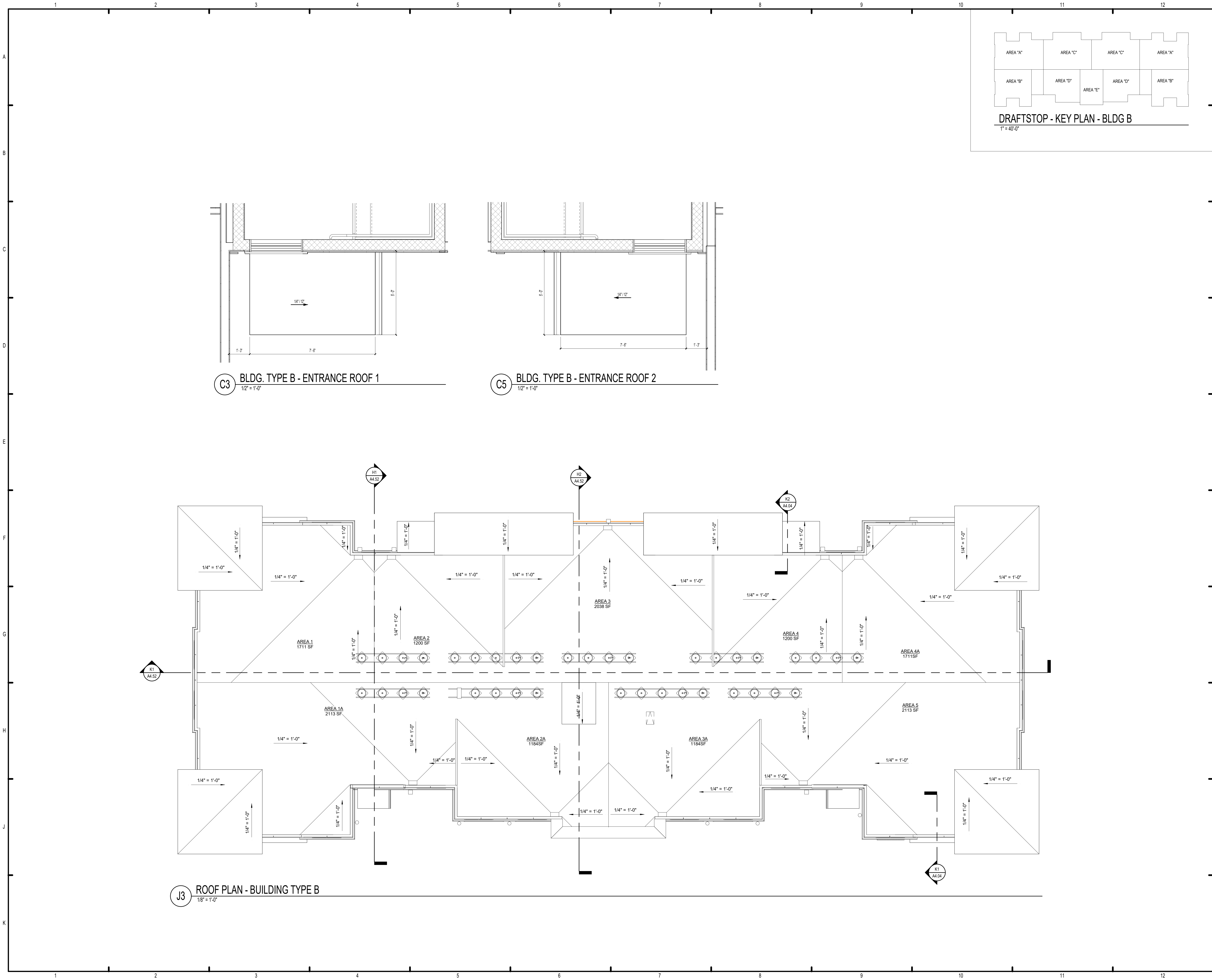
FUGLEBERG KOCH
2355 Temple Trail, Winter Park, FL 32789 (407) 629-0595
www.fuglebergkoch.com AA26002103

CONSULTANT
STATE OF ALABAMA
8234
4/15/22
REGISTERED ARCHITECT
MICHAEL DOVE
8234

THE ROBERT MADISON
MADISON, ALABAMA
Drawn: MB
Checked: JK
Approval: MS
Date: 04/15/2022
Project #: 5722

BUILDING TYPE B - 3RD & 4TH LEVEL PLANS

A2.05



DRAFTSTOP - KEY PLAN - BLDG B
1" = 40'-0"

GENERAL NOTES:

1. PAINT ALL ROOF VENTS & PENETRATIONS TO MATCH ROOF SHINGLE COLOR
2. COORDINATE DOWNSPOUT DISCHARGE WITH CIVIL DRAWINGS. WHERE NOT TAKEN TO STORM, PROVIDE SPLASH BLOCK
3. LEAVE OPENING IN MAIN ROOF SHEATHING FOR VENTILATION UNDERNEATH OVER BUILT AREAS.
4. DOWNSPOUTS AND GUTTERS SHOWN ARE MIN REQUIREMENTS SUBJECT TO OWNER'S CONSIDERATIONS
5. CONTRACTOR SHALL BE RESPONSIBLE TO MEET MINIMUM ROOF VENT REQUIREMENTS
6. GENERAL CONTRACTOR SHALL COORDINATE ALL ROOF ACCESSORIES INSTALLATION DETAILS PER MANUFACTURERS SPECS TO MAINTAIN THE WATERTIGHT SYSTEM & EXTENDED WARRANTY
7. SEE CIVIL SITE PLAN FOR BUILDING ORIENTATION, CARDINAL DIRECTIONS SHOWN FOR REFERENCE ONLY

LEGEND:

- DRAFTSTOPPING TO UNDERSIDE OF ROOF DECK
- 1HR. FIRE RATED (if required) ATTIC ACCESS PANEL, MIN. 22"x36". COORDINATE WITH ROOF TRUSSES
- OFF RIDGE VENT. SEE VENT SCHEDULE
- ICE & WATER SHIELD / SELF-ADHESDED MEMBRANE UNDER ROOF FELT, 24" BACK FROM FACE OF EXTERIOR WALL TO EDGE OF EVE AND 24" WIDE @ ALL RAKES, RIDGES, VALLYS, HIPS, FLASHING AND UNDER ALL SHINGLE ROOFS LESS THAN 4/12' SLOPE
- D.S. DOWNSPOUT

ISSUE HISTORY

No.	Date	Description
1	04/15/2022	PERMIT SUBMITTAL

REVISION HISTORY

No.	Date	Description

FUGLEBERG KOCH
2355 Temple Trail, Winter Park, FL 32789 (407) 629-0595
www.fuglebergkoch.com AA26002103

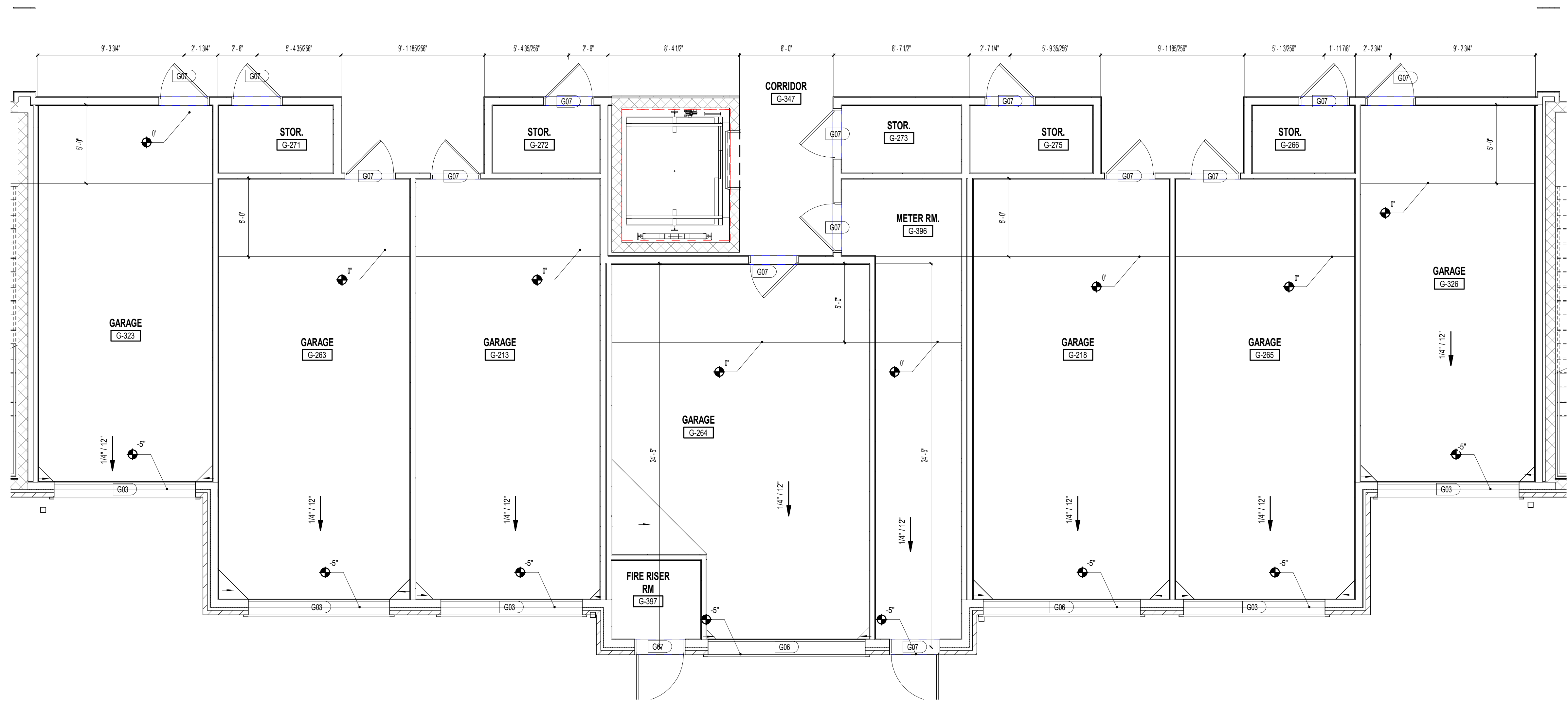
CONSULTANT
STATE OF ALABAMA
8234
4/15/22
REGISTERED ARCHITECT
MICHAEL DOVE
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THE ROBERT MADISON
MADISON, ALABAMA

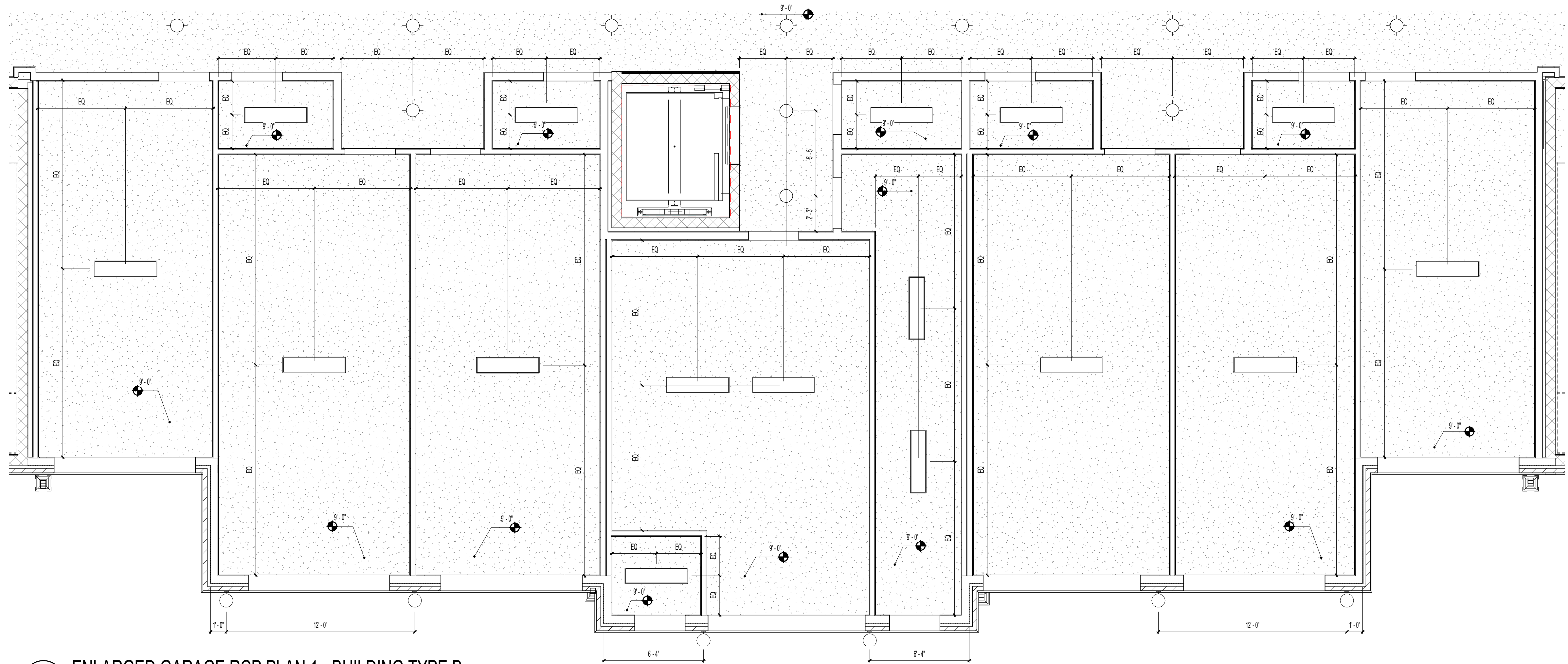
Drawn: MB
Checked: JK
Approval: MS
Date: 04/15/2022
Project #: 5722

BUILDING TYPE B - ROOF PLAN

A2.06



E1 ENLARGED GARAGE PLAN 1 - BUILDING TYPE B
1/4" = 1'-0"



K1 ENLARGED GARAGE RCP PLAN 1 - BUILDING TYPE B
1/4" = 1'-0"

GENERAL NOTES:

- ALL DIMENSIONS ARE FROM OUTSIDE FACE OF STUD UNLESS NOTED OTHERWISE. SEE UNIT PLANS FOR FURTHER DIMENSIONS.
- CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- ALL INTERIOR WALLS ARE 2X4 UNLESS OTHERWISE NOTED. SEE STRUCTURAL FOR SPACING. REFER TO LIFE SAFETY FOR ASSEMBLY TYPES.

RCP LEGEND

NOTE: RCP DIMS ARE FROM FINISH FACE OF WALL

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ISSUE HISTORY

No.	Date	Description
1	04/15/2022	PERMIT SUBMITTAL

REVISION HISTORY

No.	Date	Description
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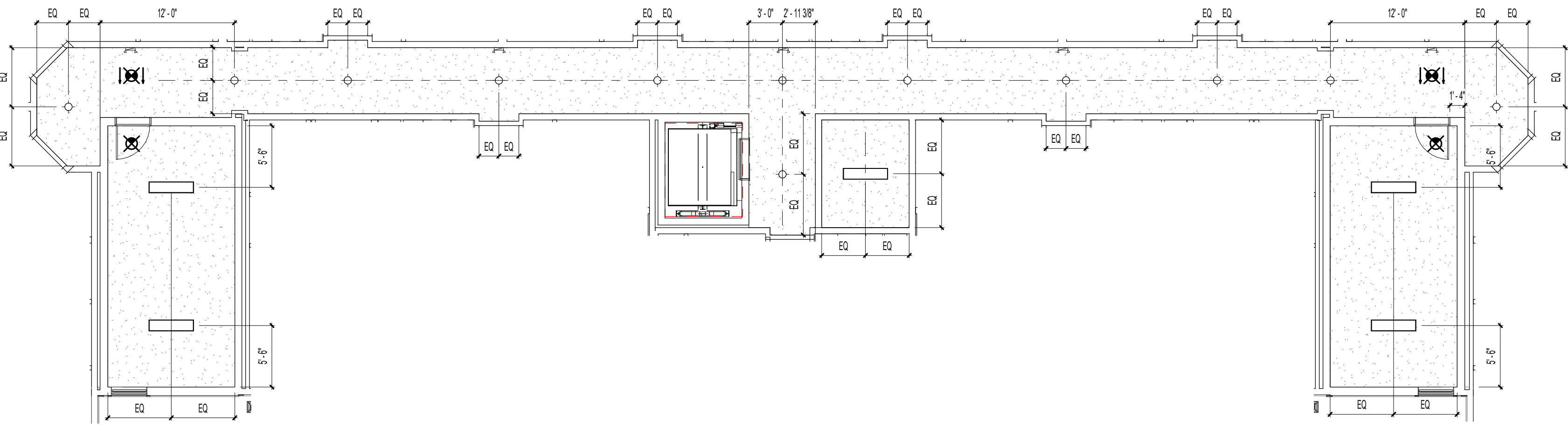
MICHAEL DOVE
8234

**THE ROBERT
MADISON**

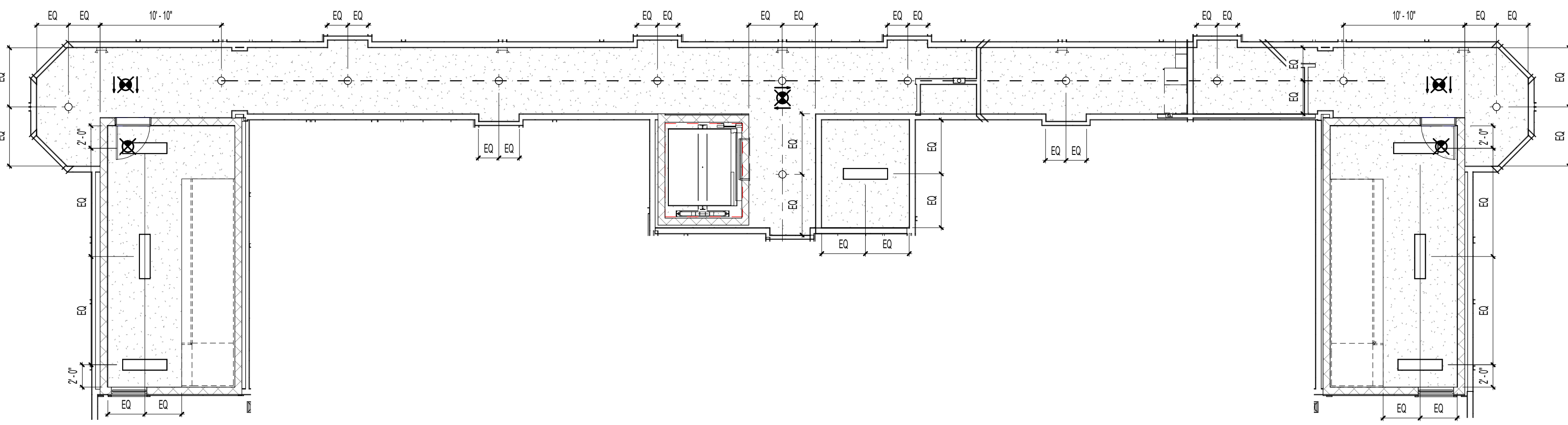
MADISON, ALABAMA

**BLDG B - ENLARGED
GARAGE PLAN**

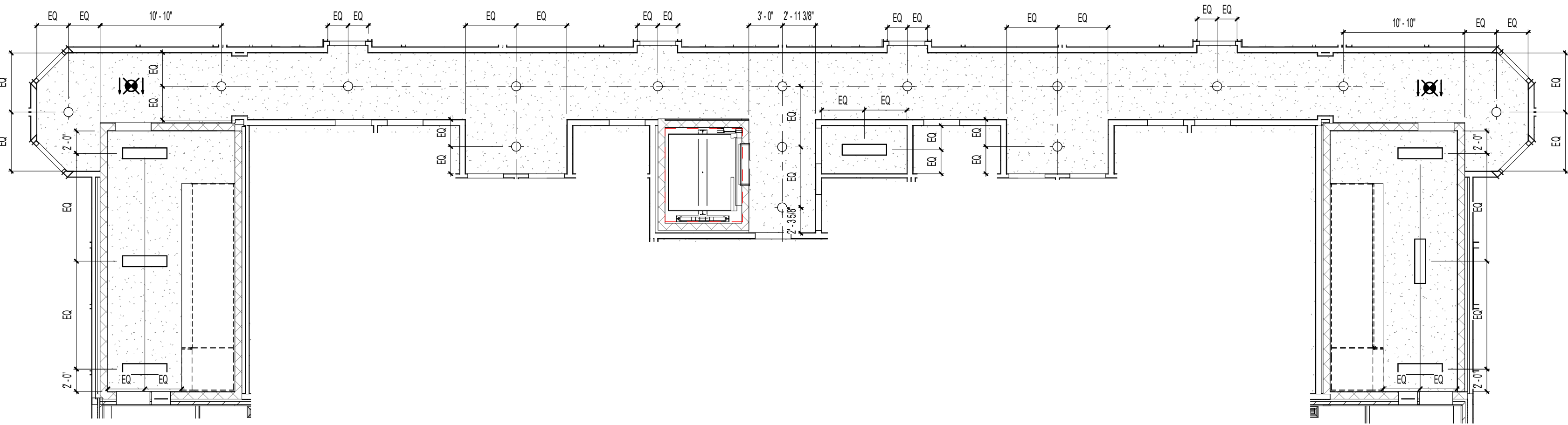
A2.19



C1 BUILDING TYPE B - RCP CORRIDOR - LEVEL 4
1/8" = 1'-0"



F1 BUILDING TYPE B - RCP CORRIDOR - LEVEL 2 & LEVEL 3
1/8" = 1'-0"



K1 BUILDING TYPE B - CORRIDOR RCP - GROUND LEVEL
1/8" = 1'-0"

GENERAL NOTES:

- A. ALL DIMENSIONS ARE FROM OUTSIDE FACE OF STUD UNLESS NOTED OTHERWISE. SEE UNIT PLANS FOR FURTHER DIMENSIONS.
B. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
C. SEE A300 SERIES SHEETS FOR UNIT PLAN INFORMATION.

RCP LEGEND

NOTE: RCP DIMS ARE FROM FINISH FACE OF WALL

- 5/8" FR GYP BD CEILING ON RC CHANNEL - 9'-0" AFF U.N.O.
EXIT LIGHT
EXIT LIGHT TYPE 2
EMERGENCY LIGHT - SIDEWALL
CEILING MOUNTED LIGHT
SPRINKLER HEAD - CEILING MOUNTED
EXTERIOR CEILING MOUNTED LIGHT
FLUORESCENT STRIP LIGHT
ATTIC ACCESS PANEL

ISSUE HISTORY

No.	Date	Description
1	04/15/2022	PERMIT SUBMITTAL

REVISION HISTORY

No.	Date	Description



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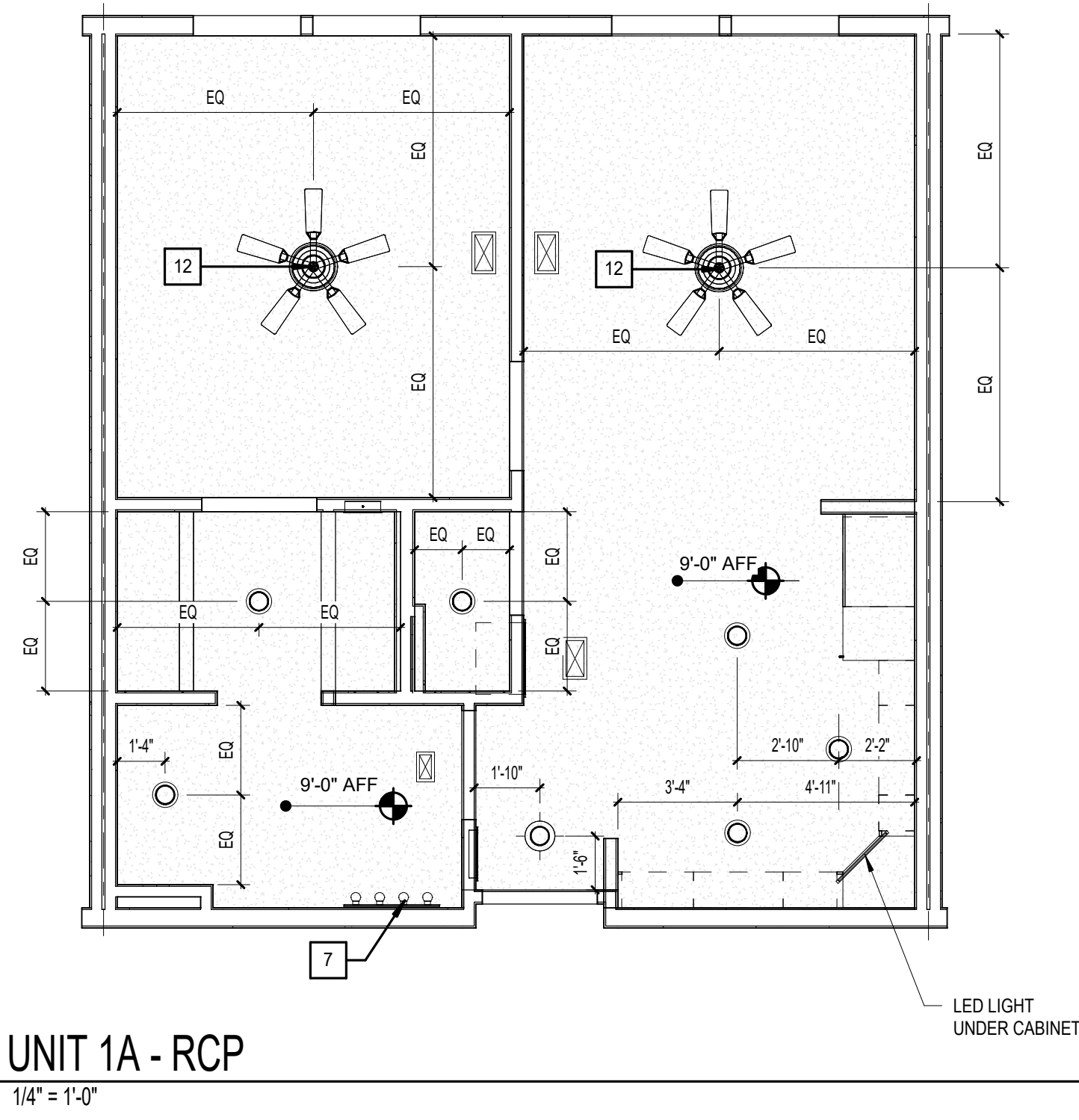


MICHAEL DOVE
8234

THE ROBERT
MADISON

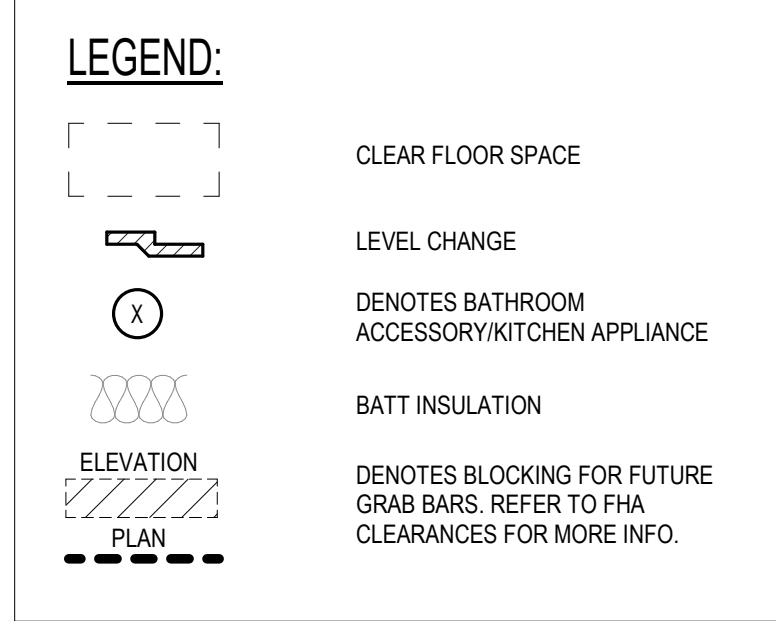
BUILDING TYPE B -
CORRIDOR RCP

A2.22



RCP LEGEND - UNITS	
	SMOKE DETECTOR
	LED FLUSH MOUNT - INTERIOR / EXTERIOR
	LED WALL MOUNT - INTERIOR
	PENDANT - CEILING MOUNTED
	LIGHT - WALL MOUNTED
	CEILING FAN - WITH LIGHT KIT
	MULTI-FIXTURE VANITY LIGHT - WALL MOUNTED
	LED UNDER CABINET DOWNLIGHT
	SQUARE SUPPLY DIFFUSER - CEILING MOUNTED
	SQUARE RETURN DIFFUSER - CEILING MOUNTED
	SUPPLY DIFFUSER - WALL MOUNTED
	RETURN DIFFUSER - WALL MOUNTED
	ADA HORN/STROBE DEVICE - WALL MT.
	GYPSUM BOARD CEILING @ 9'-0"

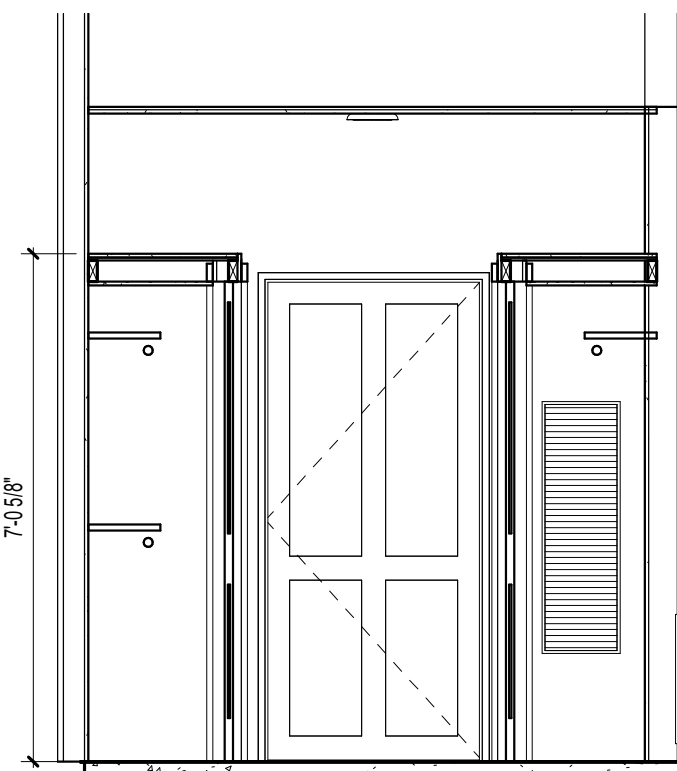
NOTES:
1. RCP DIMS SHOWN ARE FROM FACE OF FINISH.
2. ALIGN UNDER CABINET LIGHTS WITH THE CENTER OF THE CABINET ABOVE.



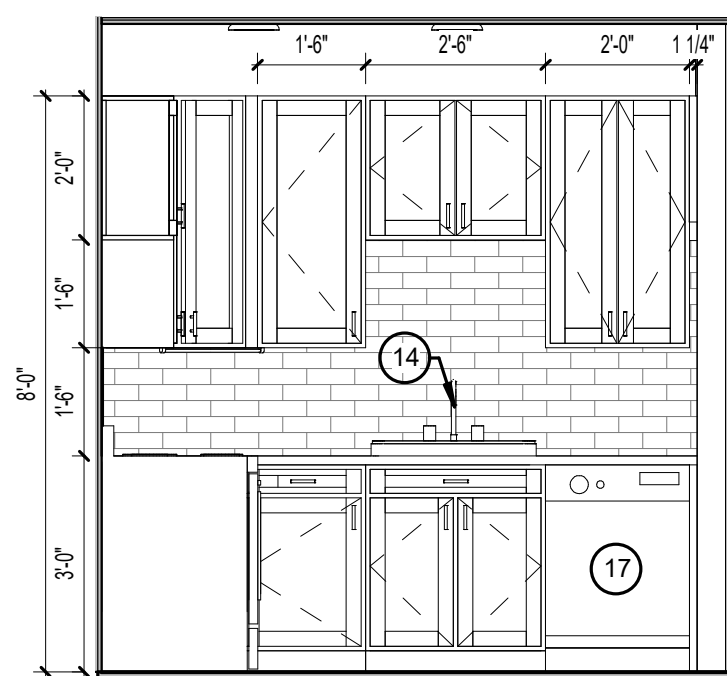
- BATH & KITCHEN LEGEND:** (X)
- 18" TOWEL BAR
 - TOILET TISSUE HOLDER
 - CURVED SHOWER ROD
 - MEDICINE CABINET
 - MIRROR
 - HAND TOWEL RING
 - SOAP DISH
 - RECESSED CABINET ABOVE W.C.
 - GRAB BAR REINFORCEMENT, BTWN. 2'-6" MAX. A.F.F. & 3'-2" MIN. A.F.F. (GRAB BARS TO BE INSTALLED IN ALL ANSI TYPE 'K' UNITS)
 - 24" TOWEL BAR
 - SHOWER HEAD
 - WATER CLOSET STD. HT.
 - LIGHT FIXTURE (SEE ELECTRICAL)
 - SINK
 - MICROWAVE
 - RANGE
 - DISHWASHER
 - REFRIGERATOR
 - OVEN
 - ANSI OVEN
 - VANITY CABINET W/SINK
 - 36" TUB
 - 22" X 22" X 2" (AND 18")
 - EXHAUST FAN
 - 32" TUB
 - 36" TUB
 - HAND HELD/FIXED SHOWER SPRAY UNIT WHOSE 60" MIN. LONG AND ADJUSTABLE BAR
 - REMOVABLE IN TUB SEAT
 - FIBERGLASS TUB W/ TILE SURROUND
 - GLASS SHOWER ENCLOSURE W/ TILE WALLS & ACRYLIC PRE-FABRICATED PAN.

UNIT 1A - Total Gross Area Schedule					
Name	Area	Bedrooms	Baths	Den	Occupants
UNIT 1A	580 SF	1	1		
	580 SF				

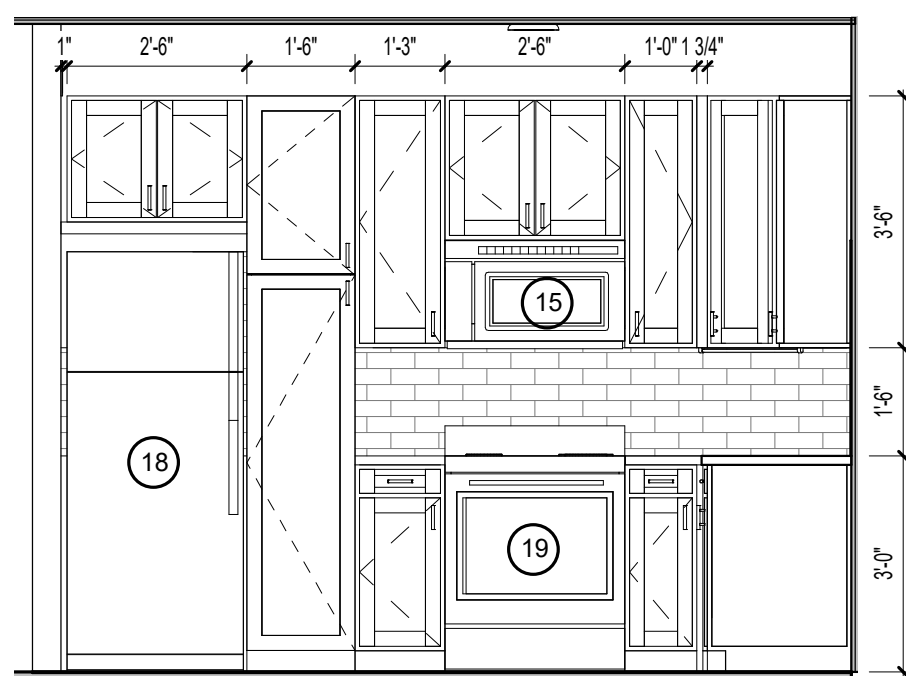
UNIT 1A - Total Net Area				
Name	Area	Bedrooms	Baths	Den
UNIT 1A	543 SF	1	1	
	543 SF			



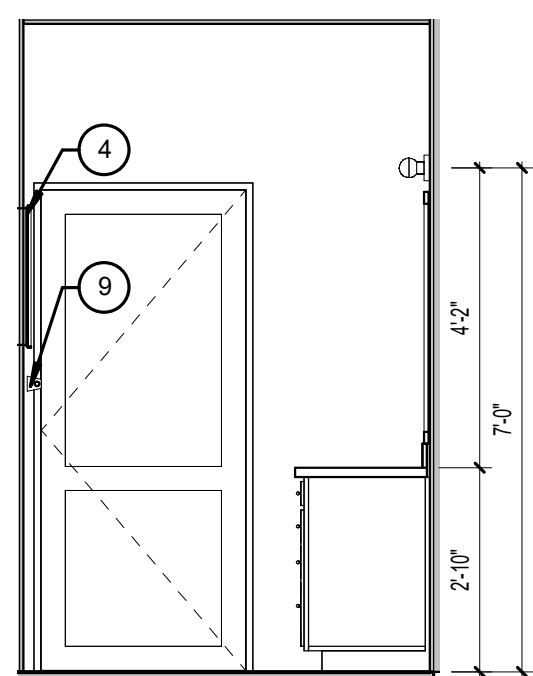
G5 WALK-THRU CLOSET SECTION
3/8" = 1'-0"



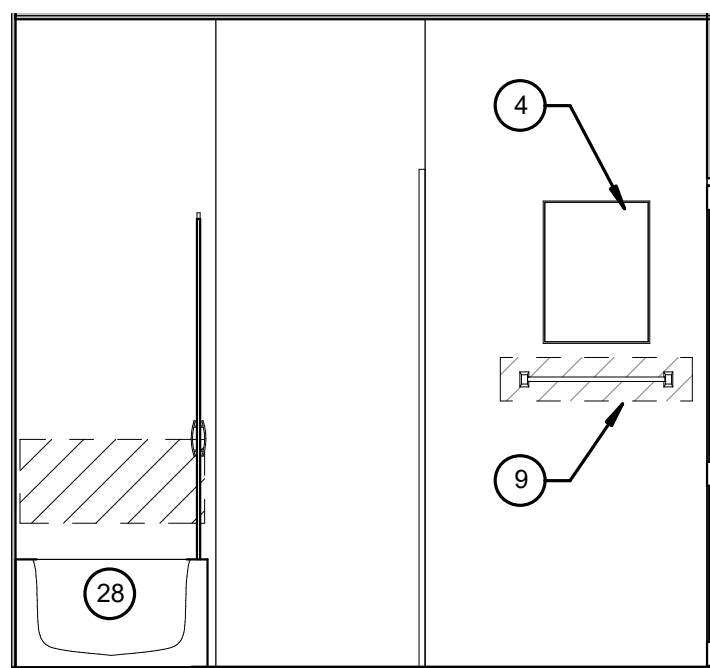
H3 UNIT A1 - ENLARGED ELEVATION
3/8" = 1'-0"



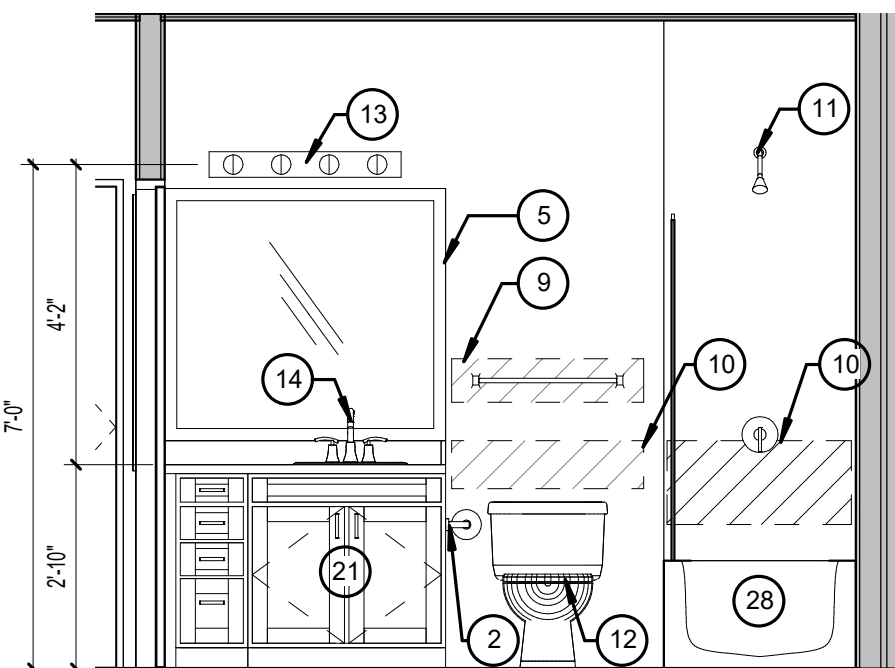
H2 TYPICAL KITCHEN - 1A
3/8" = 1'-0"



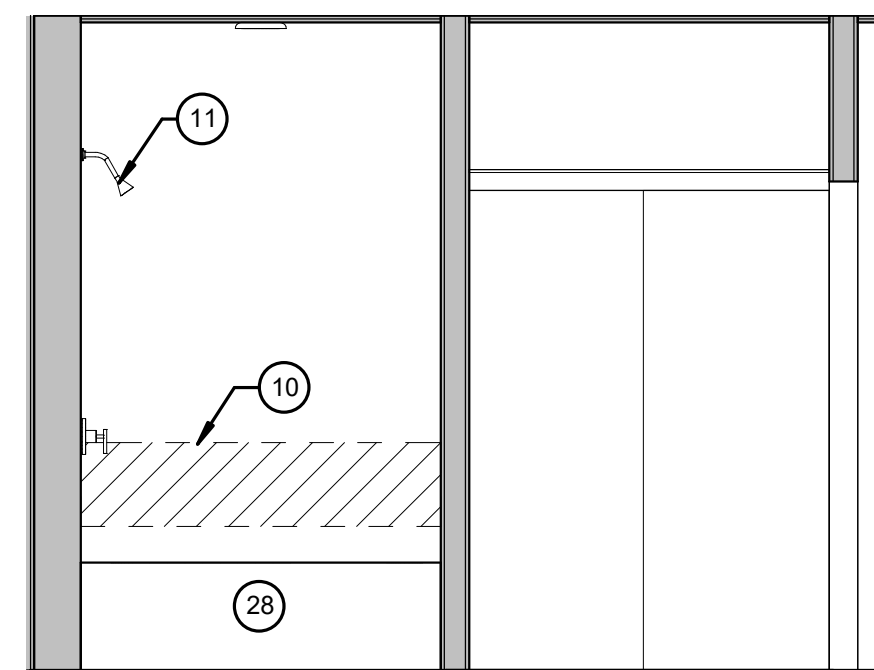
H1 UNIT A1 - ENLARGED ELEVATION
3/8" = 1'-0"



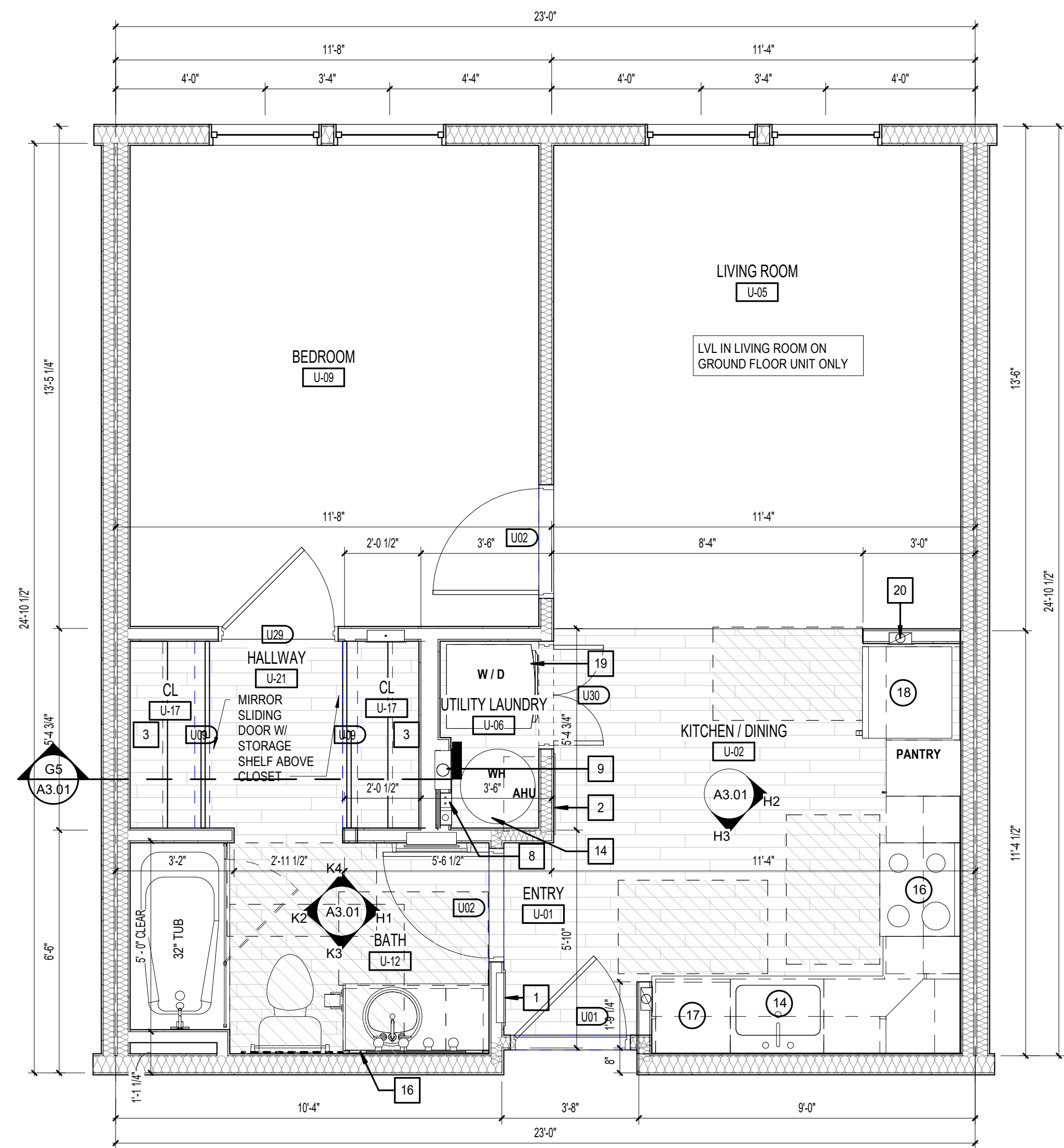
K4 UNIT A1 - ENLARGED ELEVATION
3/8" = 1'-0"



K3 UNIT A1 - ENLARGED ELEVATION
3/8" = 1'-0"



K2 UNIT A1 - ENLARGED ELEVATION
3/8" = 1'-0"



K1 UNIT 1A - DIMENSIONS & REFERENCE PLAN
3/8" = 1'-0"

GENERAL NOTES:

- ALL DIMENSIONS ARE FROM OUTSIDE FACE OF STUD UNLESS NOTED OTHERWISE.
- REFER TO EXTERIOR ELEVATIONS AND BUILDING PLANS FOR WINDOW TYPE.
- CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- REFER TO A3.30 - A3.52 FOR BALCONY PLANS SPECIFIC TO EACH UNIT AS IT OCCURS THROUGHOUT.
- ALL PLUMBING WALLS NEED TO BE COORDINATED WITH PLUMBER TO DETERMINE 2X4 OR 2X6 CONSTRUCTION.
- PROVIDE ONE 4-A, 10-B C 5-B FIRE EXTINGUISHER PER UNIT. LOCATE PER FIRE DEPARTMENT REQUIREMENTS.
- PROVIDE ACOUSTICAL UNDERLAYMENT UNDERNEATH VINYL PLANK FLOORING LOCATIONS WITHIN UNITS ON ELEVATED FLOORS. REFER TO SPECIFICATIONS FOR APPROVED PRODUCT.
- PROVIDE DISPOSER AT ALL KITCHEN SINKS. REFER TO PLANS FOR AIR SWITCH LOCATION. PLACE ON SAME SIDE AS DISPOSER.
- CLOSET RODS:
 - 12" DEEP, TOP OF SHELVE IN CLOSETS SHALL BE AT 3'-0" AND 6'-0". SEE PLANS.
 - 12" DEEP SHELVE AT PANTRIES & LINEN CLOSETS. 5 SHELVE EQUALLY SPACED @ 12" A PART (18", 22", 22", 22", 22" AND 18").
 - PROVIDE (5) 18" X 12" DEEP LINEN SHELVE EQUALLY SPACED AT BEDROOM CLOSET ENDS WHERE INDICATED.
 - SHELVE AT LAUNDRY ROOMS - 24" DEEP @ 5'-7". SHELVE AT ENTRY CLOSETS - 12" DEEP @ 6'-0".
- KITCHEN OUTLETS SHALL BE SPACED PER NEC. FHA REQUIRES THAT OUTLETS BE PLACED NO LESS THAN 3'-0" FROM THE CORNER UNLESS AN ADDITIONAL OUTLET IS ADDED. KITCHEN ELEVATIONS INDICATE APPROXIMATE DIMENSIONS NEEDED TO MEET BOTH NEC AND FHA. 4'-0" O.C. MAX. BETWEEN OUTLETS SHALL BE PROVIDED AROUND A CORNER.
- SEE SHEET A3.10 FOR STANDARD MOUNTING HEIGHTS AND DETAILS.
- PROVIDE WINDOW-EASE OPENING DEVICE AT ACCESSIBLE UNIT OPERABLE WINDOWS (WWW.WINDOWEASE.COM).

UNIT KEYNOTES:

- ELECTRICAL PANEL. REFER TO ELECTRICAL DWGS.
- HVAC UNIT. SEE MECHANICAL DRAWINGS.
- WIRE SHELF & POLE @ 6'-0"
- WIRE SHELF @ 3'-4" & 6'-0" AFF.
- SHELF ABOVE WASHER @ 5'-6" AFF.
- MAINTAIN MIN. 3'-0" CLEAR BETWEEN FINISHES AND FURNITURE. TYP.
- CENTER LIGHTING FIXTURE ABOVE LAVATORY.
- WASHER BOX.
- DRYER VENT.
- COMBO WASHER / DRYER BOX.
- MOVABLE KITCHEN ISLAND.
- PROVIDE FAN RATED REINFORCED J-BOX.
- ATTIC ACCESS. TOP FLOOR UNITS ONLY.
- WATER HEATER. SEE PLUMBING DRAWINGS.
- ACCESS PANEL FOR MECH. UNIT.
- FRAMELESS MIRROR.
- WASHER.
- DRYER.
- STACKED WASHER/DRYER COMBO.
- ICE MAKER CONNECTION.

ISSUE HISTORY

No.	Date	Description

REVISION HISTORY

No.	Date	Description

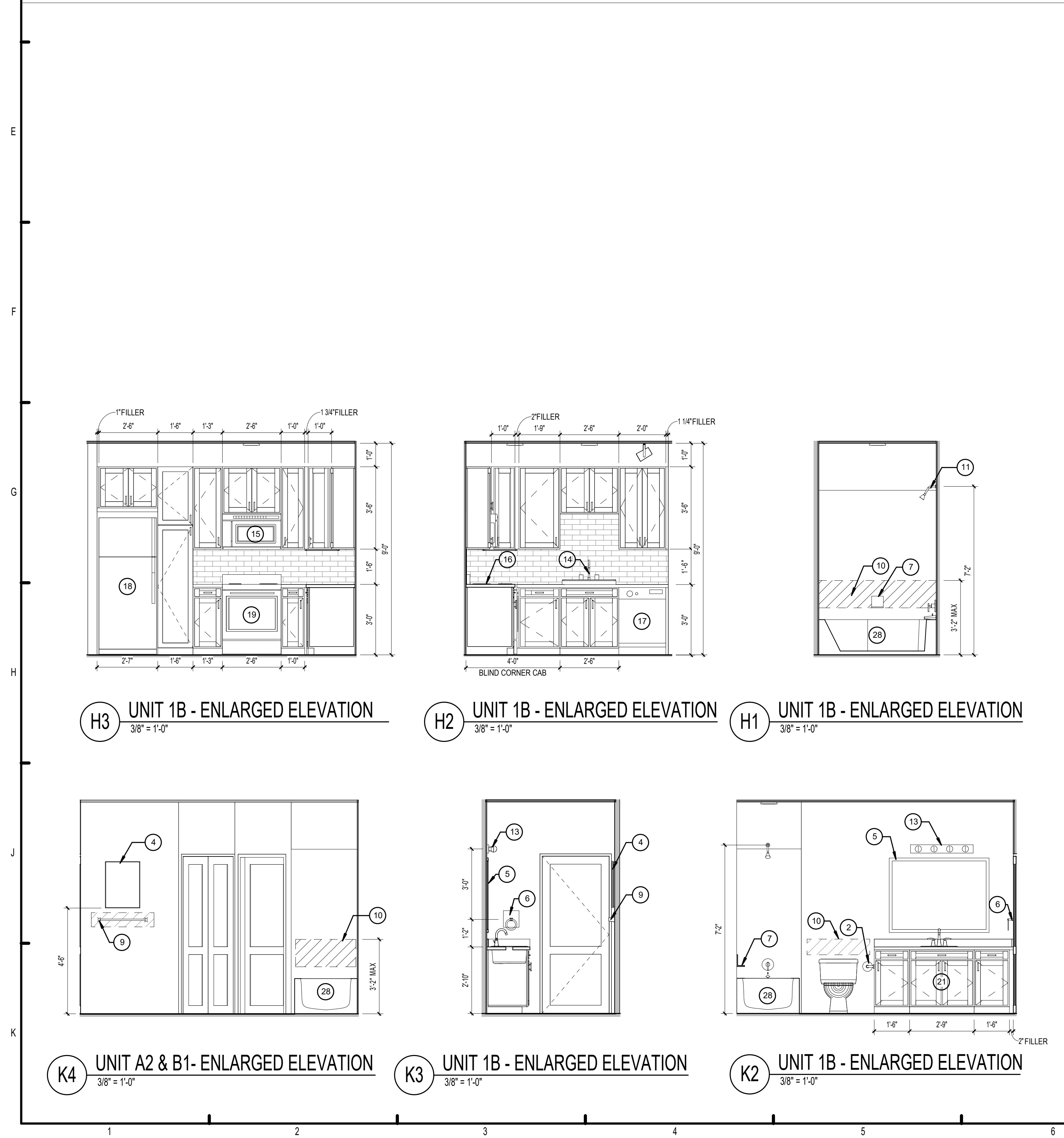
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CONSULTANT
STATE OF ALABAMA
MICHAEL E. GOVE
8234
4/15/22
REGISTERED ARCHITECT
MICHAEL GOVE 8234

THE ROBERT - MADISON MADISON, ALABAMA	Drawn	MS
	Checked	JK
	Approval	MS
	Date	04/15/2022
Project #		572

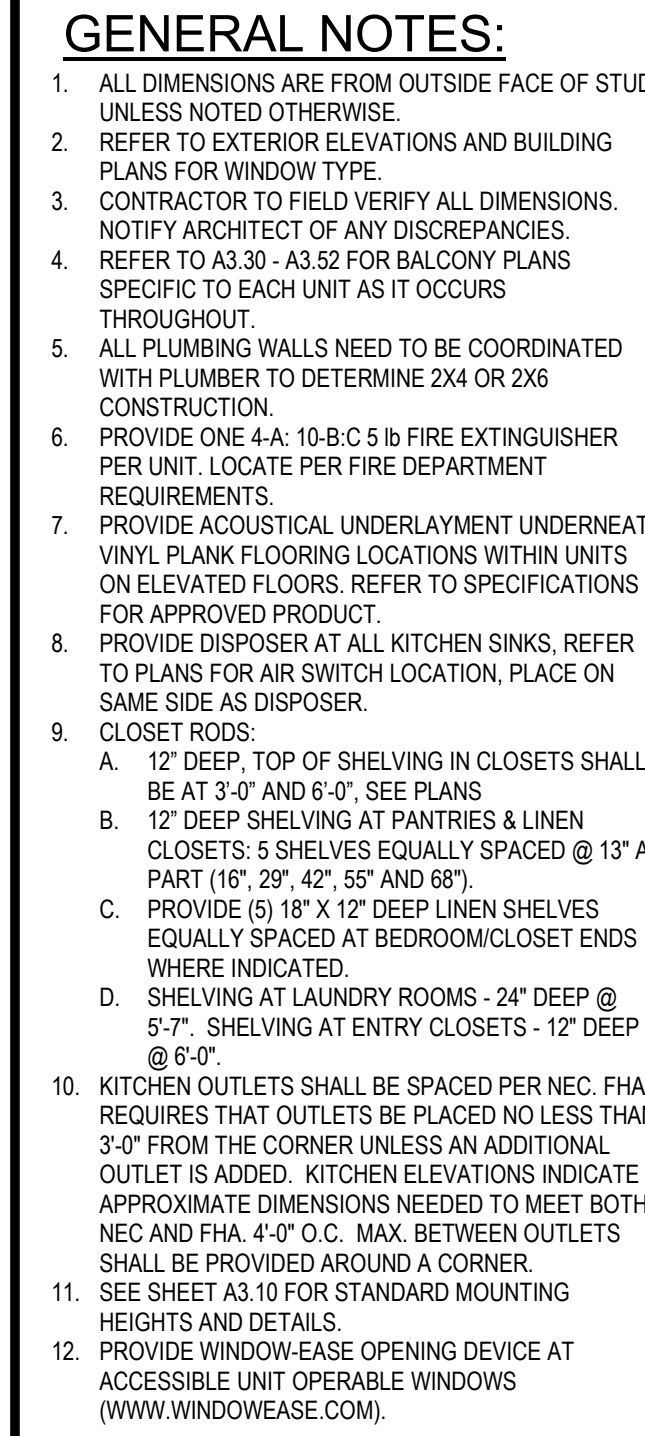
UNIT 1A - 1BR. UNIT PLAN

A3.01



UNIT 1B - Total Gross Area Schedule					
Name	Area	Bedrooms	Baths	Den	Occupants
UNIT 1B	731 SF	1	1		
BALCONY	80 SF			1	
	811 SF				

UNIT 1B - Total Net Area					
Name	Area	Bedrooms	Baths		Den
UNIT 1B	690.54 SF	1	1		1
	690.54 SF				

UNIT KEYNOTES: ☐ X

1. ELECTRICAL PANEL REFER TO ELECTRICAL DWG'S
2. HVAC UNIT, SEE MECHANICAL DRAWINGS.
3. WIRE SHELF & POLE @6'-0"
4. MIRROR @6'-4" & 8'-0" @ 1'-0" ON CENTER
5. MIRROR ABOVE WASHER @ 5'-6" AFF.
6. MAINTAIN MIN. 3'-0" CLEAR BETWEEN FINISHES AND FURNITURE. TYP.
7. MIRROR HANGING FIXTURE ABOVE LAVATORY.
8. WASHER BOX
9. DRYER VENT
10. COMBO WASHER / DRYER BOX
11. MOVE TO KITCHEN ISLAND
12. PROVIDE FAN RATED REINFORCED J-BOX
13. ATTIC ACCESS, TOP FLOOR UNITS ONLY.
14. WATER HEATER, SEE PLUMBING DRAWINGS.
15. ACCESS PANEL FOR MECH. UNIT.
16. FRAMELESS MIRROR
17. WASHER
18. DRYER
19. STACKED WASHER/DRYER COMBO.
20. ICE MAKER CONNECTION

ISSUE HISTORY

No.	Date	Description

REVISION HISTORY

No.	Date	Description

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8234
4/15/22



REGISTERED ARCHITECT

<p>_____</p>	<p>Drawn:</p>
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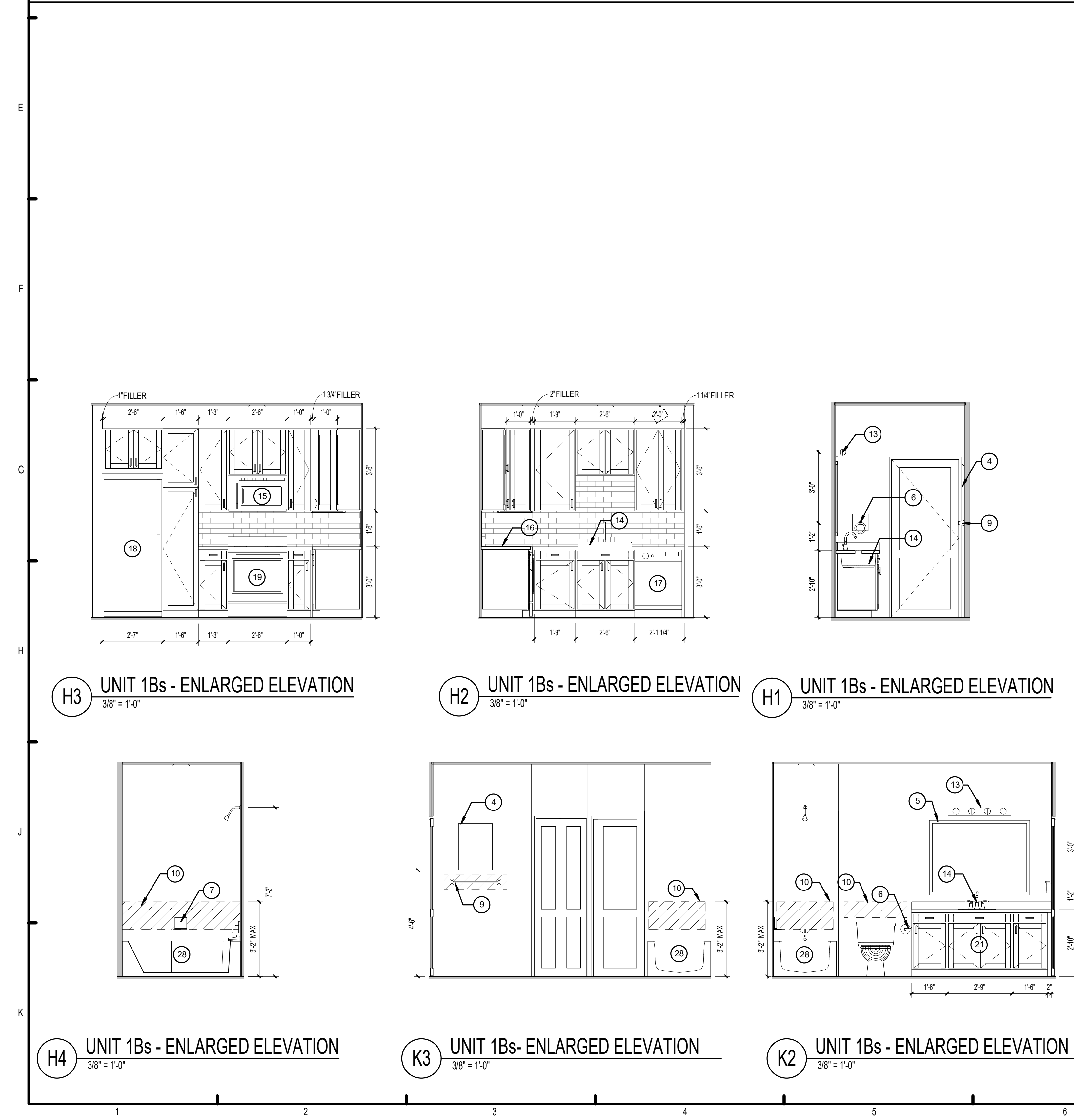
THE ROBERT -
MADISON

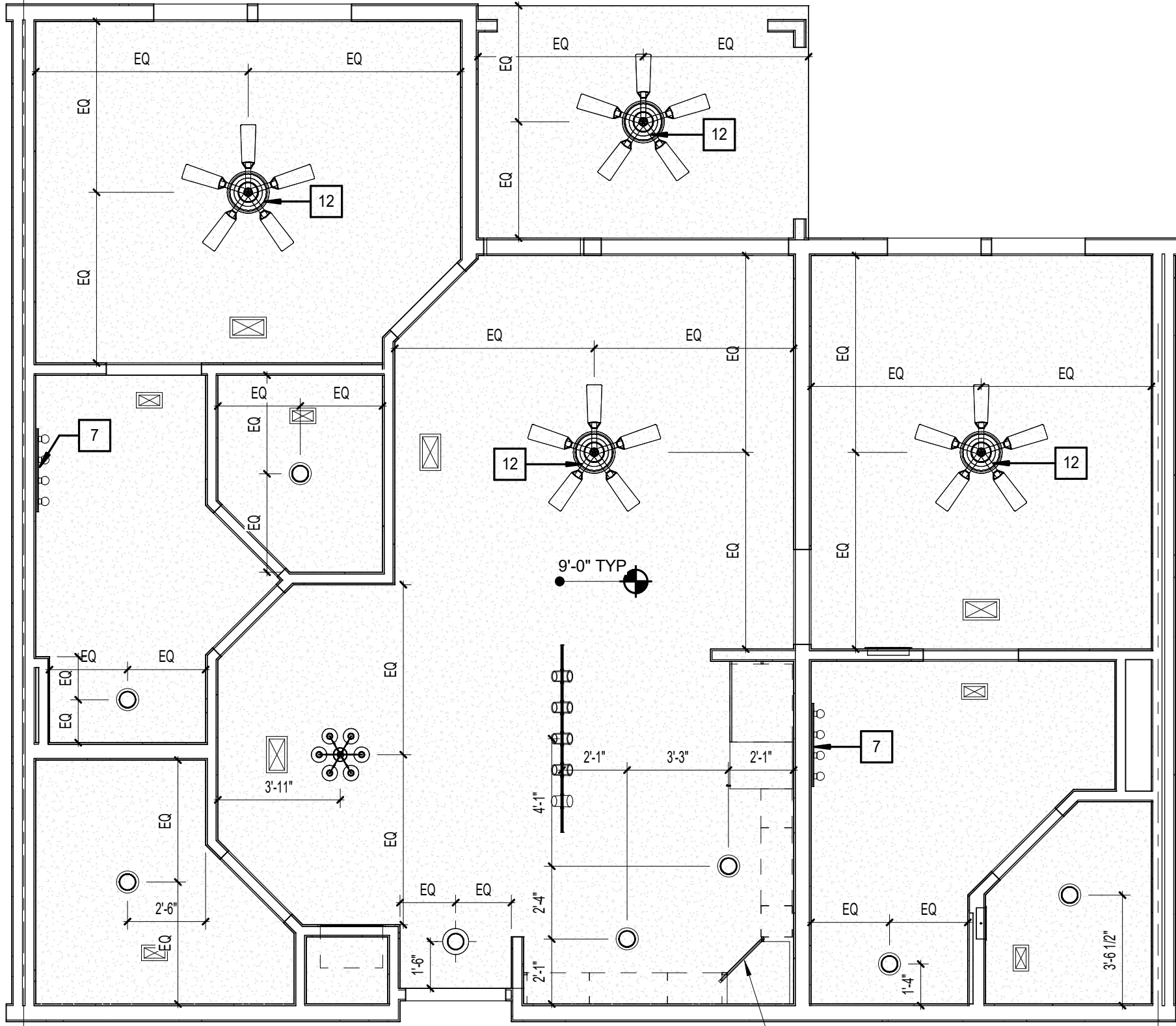
MADISON, ALABAMA	Project #:
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UNIT 1B - 1BR. UNIT P

A3 02

A3.02

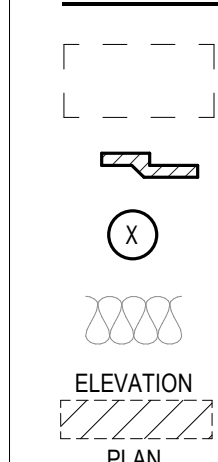




RCP LEGEND - UNITS	
	SMOKE DETECTOR
	LED FLUSH MOUNT - INTERIOR / EXTERIOR
	LED WALL MOUNT - INTERIOR
	PENDANT - CEILING MOUNTED
	LIGHT - WALL MOUNTED
	CEILING FAN - WITH LIGHT KIT
	MULTI FIXTURE VANITY LIGHT - WALL MOUNTED
	LED UNDER CABINET DOWNLIGHT
	SQUARE SUPPLY DIFFUSER - CEILING MOUNTED
	SQUARE RETURN DIFFUSER - CEILING MOUNTED
	SUPPLY DIFFUSER - WALL MOUNTED
	RETURN DIFFUSER - WALL MOUNTED
	ADA HORN/STROBE DEVICE - WALL MT.
	GYPSUM BOARD CEILING @ 9'-0"

NOTES:
1. RCP DIMS SHOWN ARE FROM FACE OF FINISH.
2. ALIGN UNDER CABINET LIGHTS WITH THE CENTER OF THE CABINET ABOVE.

LEGEND:



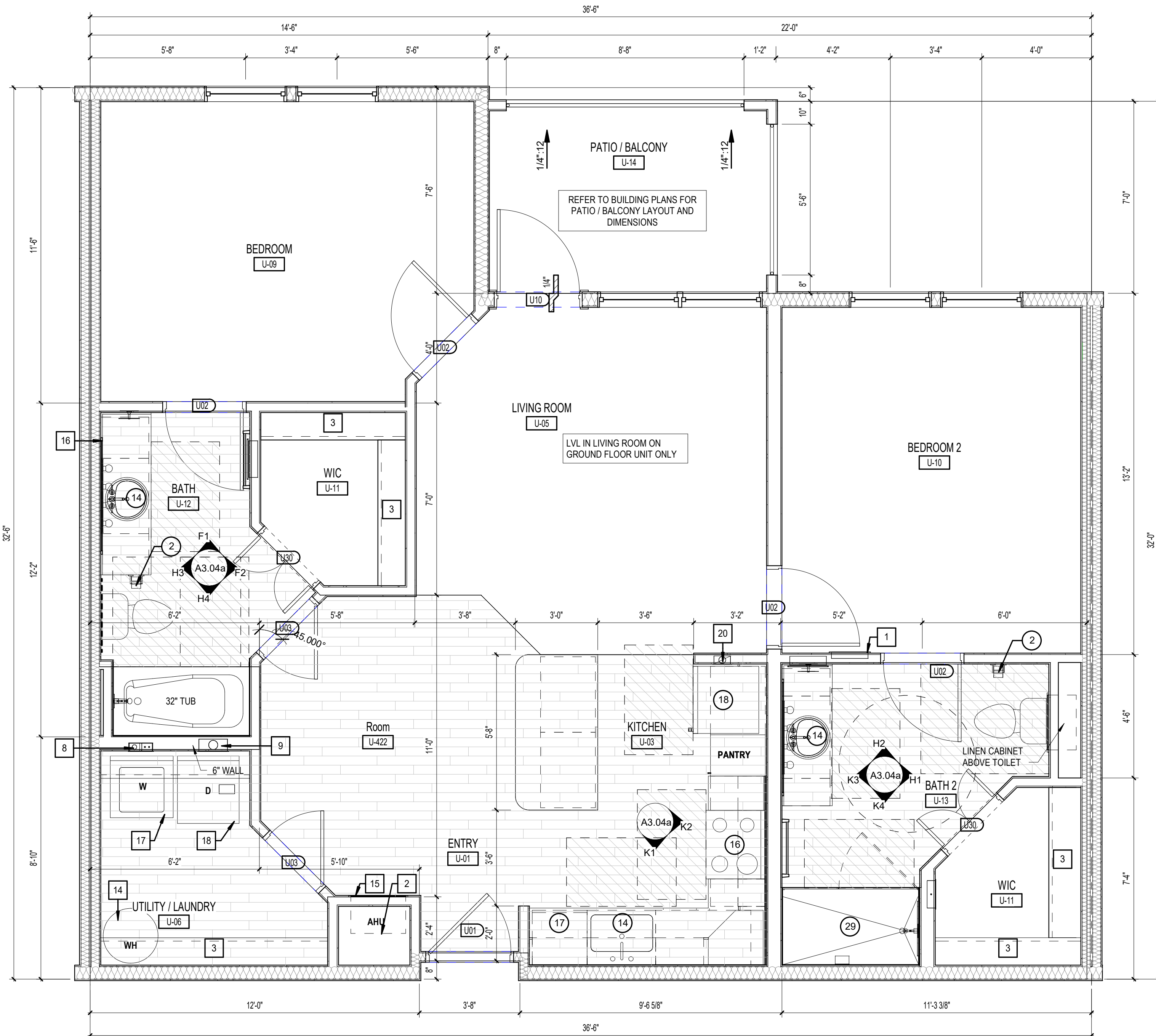
CLEAR FLOOR SPACE
LEVEL CHANGE
DENOTES BATHROOM ACCESSORY/KITCHEN APPLIANCE
MIRROR
HAND TOWEL RING
SOAP DISH
TOWEL BAR
GRAB BAR REINFORCEMENT, BTWN 2'-0" MAX.
A.F.F. & 3'-2" MIN. A.F.F. (GRAB BARS TO BE INSTALLED IN ALL ANSI TYPE 'A' UNITS)
SHOWER HEAD
WATER CLOSET STD. HT.
LIGHT FIXTURE (SEE ELECTRICAL)
SINK
MICROWAVE
DISHWASHER
REFRIGERATOR
OVEN
ANSI OVEN
VANITY CABINET W/ SINK
36" - TUB
EXHAUST FAN
TILE
HAND HELD/FIXED SHOWER SPRAY UNIT WHOSE 60" MIN. LONG AND ADJUSTABLE BAR
REMOVABLE IN TUB SEAT
FIBERGLASS TUB W/ TILE SURROUND
GLASS SHOWER ENCLOSURE W/ TILE WALLS & ACRYLIC PRE-FABRICATED PAN.

BATH & KITCHEN LEGEND: (X)

- 18" TOWEL BAR
- TOILET TISSUE HOLDER
- CURVED SHOWER ROD
- MEDICINE CABINET
- MIRROR
- HAND TOWEL RING
- SOAP DISH
- RECESSED CABINET ABOVE W.C.
- 24" TOWEL BAR
- GRAB BAR REINFORCEMENT, BTWN 2'-0" MAX.
- A.F.F. & 3'-2" MIN. A.F.F. (GRAB BARS TO BE INSTALLED IN ALL ANSI TYPE 'A' UNITS)
- SHOWER HEAD
- WATER CLOSET STD. HT.
- LIGHT FIXTURE (SEE ELECTRICAL)
- SINK
- MICROWAVE
- DISHWASHER
- REFRIGERATOR
- OVEN
- ANSI OVEN
- VANITY CABINET W/ SINK
- 36" - TUB
- EXHAUST FAN
- TILE
- HAND HELD/FIXED SHOWER SPRAY UNIT WHOSE 60" MIN. LONG AND ADJUSTABLE BAR
- REMOVABLE IN TUB SEAT
- FIBERGLASS TUB W/ TILE SURROUND
- GLASS SHOWER ENCLOSURE W/ TILE WALLS & ACRYLIC PRE-FABRICATED PAN.

UNIT 2B - Total Gross Area Schedule						
Name	Area	Bedrooms	Baths	Den	Occupants	
UNIT 2B	1019 SF	2	2	1		
BALCONY	74 SF					
	1093 SF					

UNIT 2B - Total Net Area				
Unit Descriptor	Area	Bedrooms	Baths	Den
UNIT 2B	972 SF	2	2	1
	972 SF			



K1 UNIT 2B - DIMENSION & REFERENCE PLAN
3/8" = 1'-0"

GENERAL NOTES:

- ALL DIMENSIONS ARE FROM OUTSIDE FACE OF STUD UNLESS NOTED OTHERWISE.
- REFER TO EXTERIOR ELEVATIONS AND BUILDING PLANS FOR WINDOW TYPE.
- CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- REFER TO A3.30 - A3.32 FOR BALCONY PLANS SPECIFIC TO EACH UNIT AS IT OCCURS THROUGHOUT.
- ALL PLUMBING WALLS NEED TO BE COORDINATED WITH PLUMBER TO DETERMINE Z44 OR Z46 CONSTRUCTION.
- PROVIDE ONE 4-A: 10-B-C 5-B FIRE EXTINGUISHER PER UNIT. LOCATE PER FIRE DEPARTMENT REQUIREMENTS.
- PROVIDE ACOUSTICAL UNDERLAYMENT UNDERNEATH VINYL PLANK FLOORING LOCATIONS WITHIN UNITS ON ELEVATED FLOORS. REFER TO SPECIFICATIONS FOR APPROVED PRODUCT.
- PROVIDE DISPOSER AT ALL KITCHEN SINKS. REFER TO PLANS FOR AIR SWITCH LOCATION. PLACE ON SAME SIDE AS DISPOSER.
- CLOSET RODS:
 - 12" DEEP TOP OF SHELVE IN CLOSETS SHALL BE AT 3'-0" AND 6'-0". SEE PLANS.
 - 12" DEEP SHELVE AT PANTRIES & LINEN CLOSETS. SHELVE EQUALLY SPACED @ 13" A PART (16", 29", 42", 55" AND 68").
 - PROVIDE (S) 18" X 12" DEEP LINEN SHELVE EQUALLY SPACED AT BEDROOM/CLOSET ENDS WHERE INDICATED.
 - SHELVE AT LAUNDRY ROOMS - 24" DEEP @ 5'-0". SHELVE AT ENTRY CLOSETS - 12" DEEP @ 6'-0".
- KITCHEN OUTLETS SHALL BE SPACED PER NEC. FHA REQUIRES THAT OUTLETS BE PLACED NO LESS THAN 3'-0" FROM THE CORNER UNLESS AN ADDITIONAL OUTLET IS ADDED. KITCHEN ELEVATIONS INDICATE APPROXIMATE DIMENSIONS NEEDED TO MEET BOTH NEC AND FHA. 4'-0" O.C. MAX. BETWEEN OUTLETS SHALL BE PROVIDED AROUND A CORNER.
- SEE SHEET A3.10 FOR STANDARD MOUNTING HEIGHTS AND DETAILS.
- PROVIDE WINDOW-EASE OPENING DEVICE AT ACCESSIBLE UNIT OPERABLE WINDOWS (WWW.WINDOWEASE.COM).

UNIT KEYNOTES: (X)

- ELECTRICAL PANEL. REFER TO ELECTRICAL DWGS.
- HVAC UNIT. SEE MECHANICAL DRAWINGS.
- WIRE SHELF & POLE @ 6'-0".
- WIRE SHELF @ 3'-4" & 5'-0" AFF.
- SHELF ABOVE WASHER @ 5'-6" AFF.
- MAINTAIN MIN. 3'-0" CLEAR BETWEEN FINISHES AND FURNITURE. TYP.
- CENTER LIGHTING FIXTURE ABOVE LAVATORY.
- WASHER BOX.
- DRYER VENT.
- COMBO WASHER / DRYER BOX.
- MOVABLE KITCHEN ISLAND.
- PROVIDE FAN RATED REINFORCED J-BOX.
- ATTIC ACCESS, TOP FLOOR UNITS ONLY.
- WATER HEATER. SEE PLUMBING DRAWINGS.
- ACCESS PANEL FOR MECH. UNIT.
- FRAMELESS MIRROR.
- WASHER.
- DRYER.
- STACKED WASHER/DRYER COMBO.
- ICE MAKER CONNECTION.

ISSUE HISTORY

No.	Date	Description

REVISION HISTORY

No.	Date	Description



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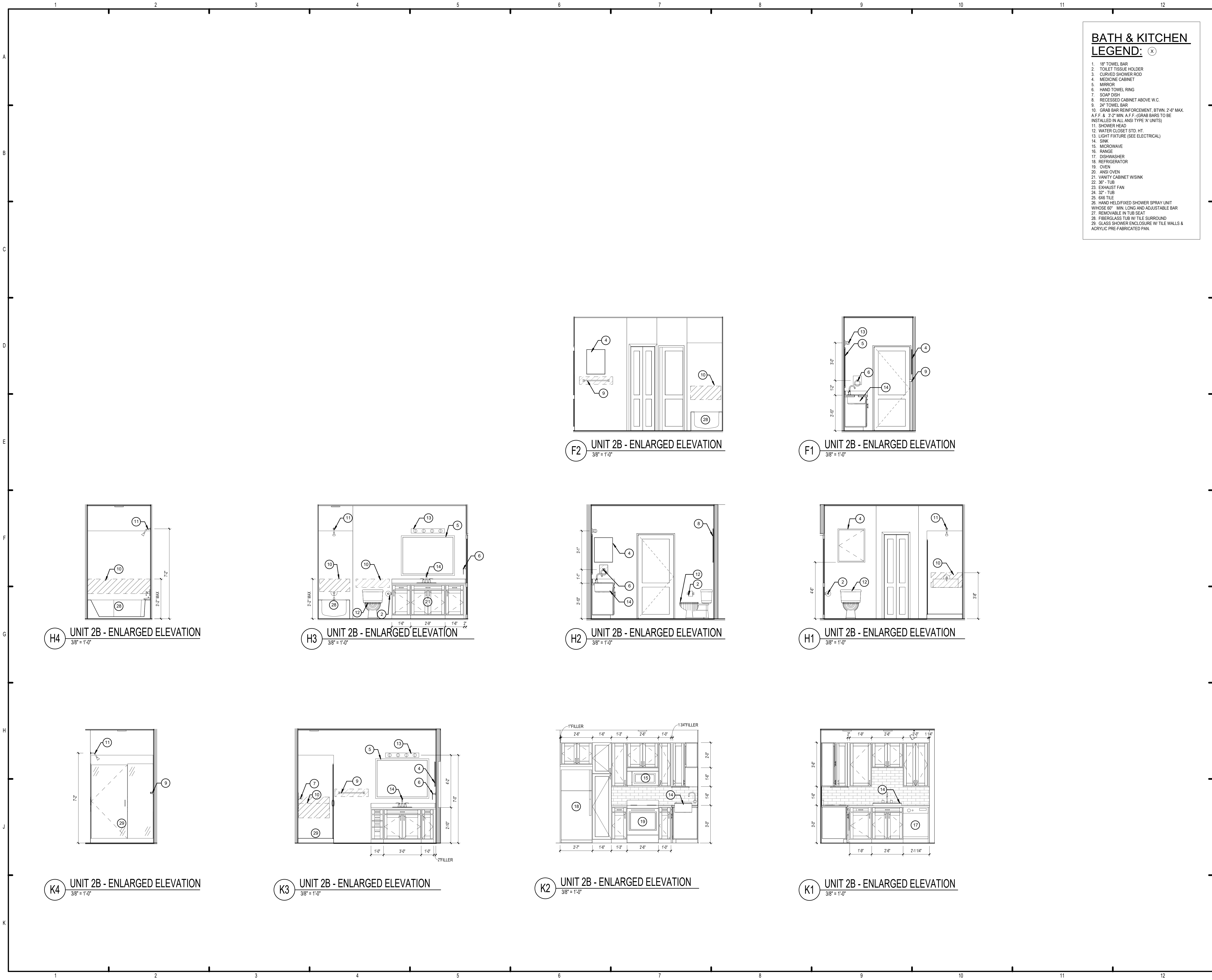


THE ROBERT -
MADISON

MADISON, ALABAMA

UNIT 2B - 2BR UNIT PLAN

A3.04



**BATH & KITCHEN
LEGEND:** (X)

1. 18" TOWEL BAR
2. TOILET TISSUE HOLDER
3. CURVED SHOWER ROD
4. MEDICINE CABINET
5. MIRROR
6. HAND TOWEL RING
7. SOAP DISH
8. RECESSED CABINET ABOVE W.C.
9. 24" TOWEL BAR
10. GRAB BAR REINFORCEMENT, BTWN 2'-6" MAX. A.F.F. & 3'-2" MIN. A.F.F. (GRAB BARS TO BE INSTALLED IN ALL ANSI TYPE 'A' UNITS)
11. SHOWER HEAD
12. WATER CLOSET (SEE ELECTRICAL)
13. LIGHT FIXTURE (SEE ELECTRICAL)
14. SINK
15. MICROWAVE
16. RANGE
17. DISHWASHER
18. REFRIGERATOR
19. OVEN
20. ANSI OVEN
21. VANITY CABINET W/SINK
22. 36" TUB
23. EXHAUST FAN
24. 32" TUB
25. 6X6 TILE
26. HAND HELD/FIXED SHOWER SPRAY UNIT WHOSE 60" MIN. LONG AND ADJUSTABLE BAR
27. REMOVABLE IN TUB SEAT
28. FIBERGLASS TUB W/ TILE SURROUND
29. GLASS SHOWER ENCLOSURE W/ TILE WALLS & ACRYLIC PRE-FABRICATED PAN.

ISSUE HISTORY

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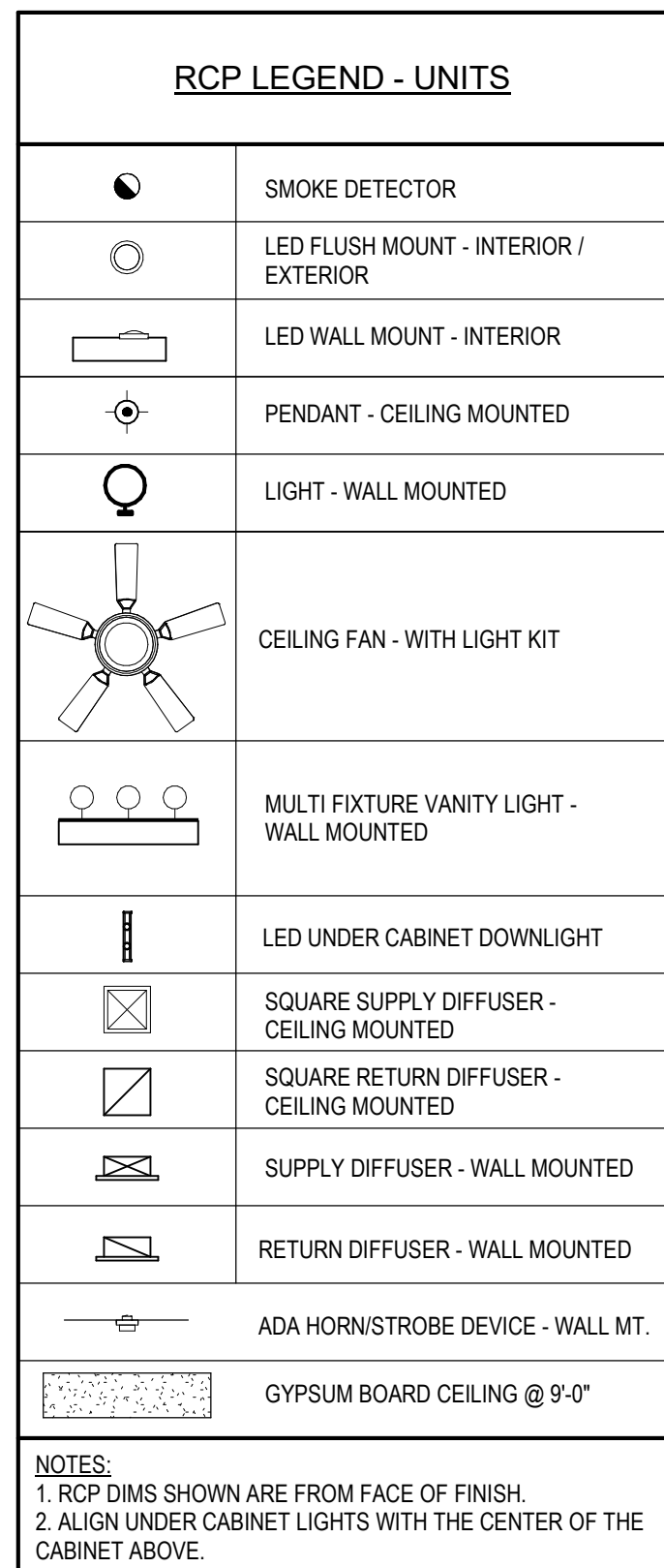


**THE ROBERT -
MADISON**
MADISON, ALABAMA

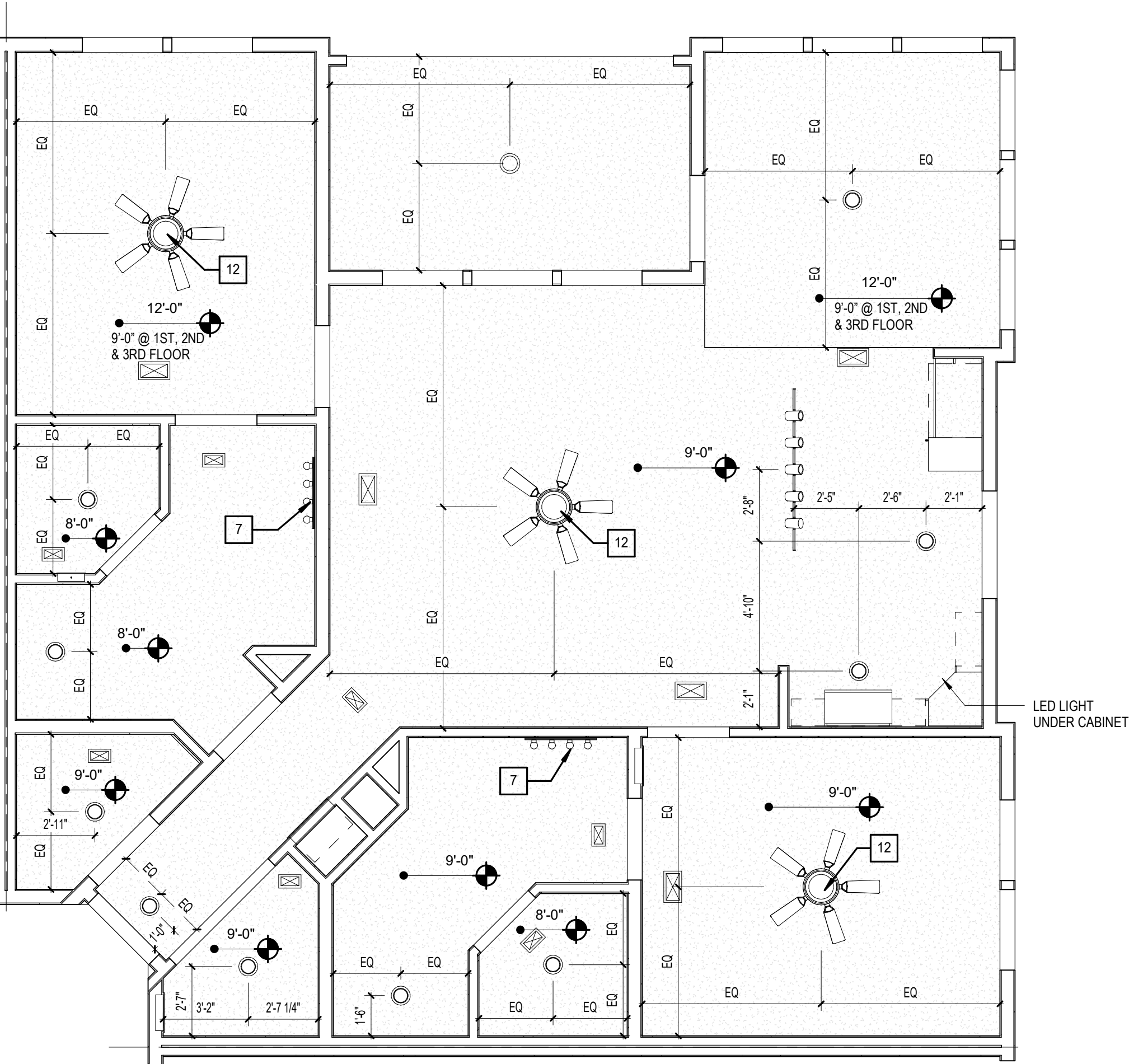
Drawn:	MB
Checked:	JK
Approval:	MS
Date:	04/15/2022
Project #:	5722

UNIT 2B - 2BR UNIT PLAN

A3.04a



RCP LEGEND - UNITS	
	SMOKE DETECTOR
	LED FLUSH MOUNT - INTERIOR / EXTERIOR
	LED WALL MOUNT - INTERIOR
	PENDANT - CEILING MOUNTED
	LIGHT - WALL MOUNTED
	CEILING FAN - WITH LIGHT KIT
	MULTI FIXTURE VANITY LIGHT - WALL MOUNTED
	LED UNDER CABINET DOWNLIGHT
	SQUARE SUPPLY DIFFUSER - CEILING MOUNTED
	SQUARE RETURN DIFFUSER - CEILING MOUNTED
	SUPPLY DIFFUSER - WALL MOUNTED
	RETURN DIFFUSER - WALL MOUNTED
	ADA HORN/STROBE DEVICE - WALL MT.
	GYPSUM BOARD CEILING @ 9'-0"
NOTES: 1. RCP DIMS SHOWN ARE FROM FACE OF FINISH. 2. ALIGN UNDER CABINET LIGHTS WITH THE CENTER OF THE CABINET ABOVE.	



D1 UNIT 2C - CARRIAGE HOUSE - RCP
1/4" = 1'-0"

LEGEND:

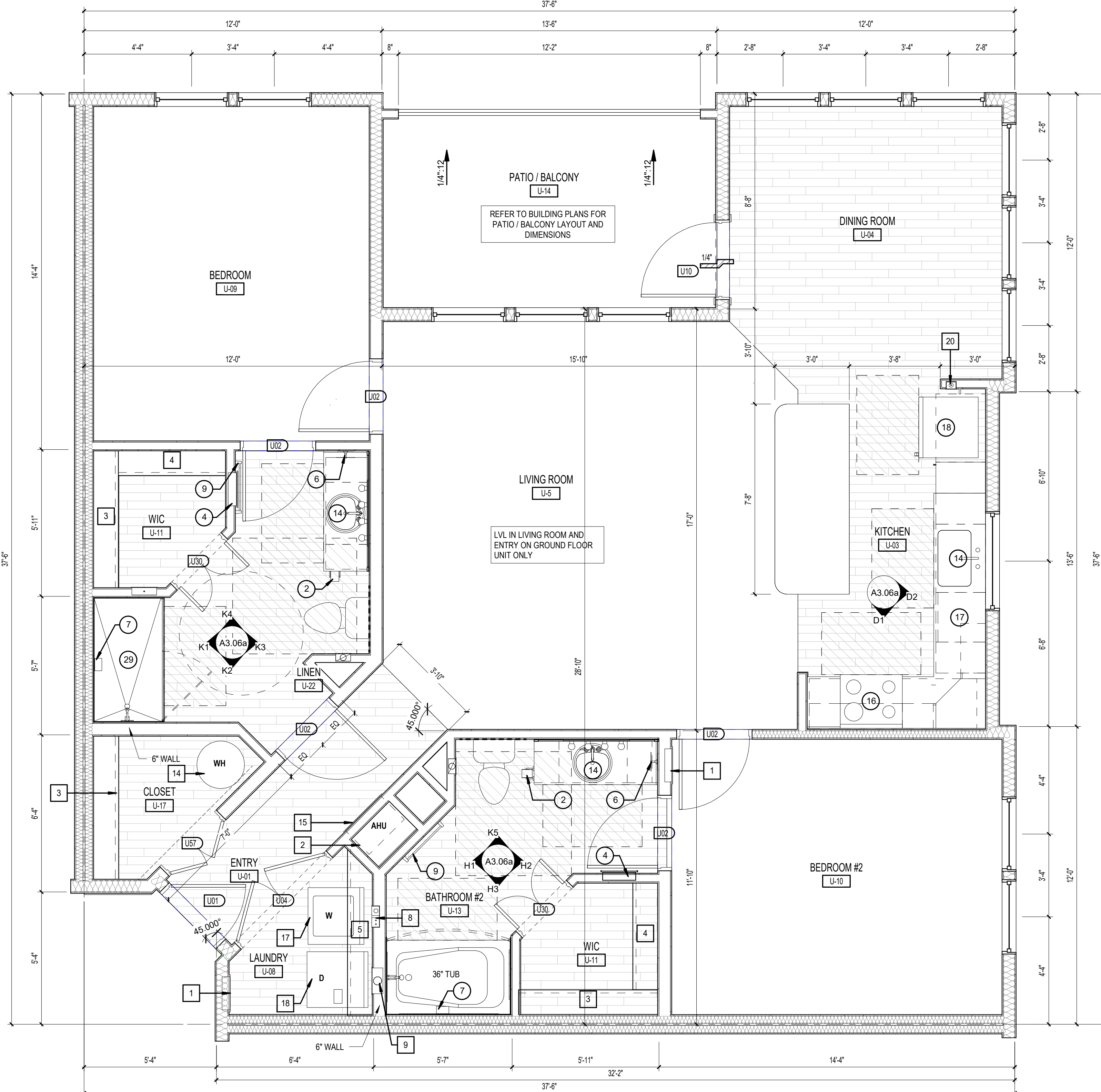
- CLEAR FLOOR SPACE
- LEVEL CHANGE
- DENOTES BATHROOM ACCESSORY/KITCHEN APPLIANCE
- BATT INSULATION
- DENOTES BLOCKING FOR FUTURE GRAB BARS. REFER TO FHA CLEARANCES FOR MORE INFO.

BATH & KITCHEN LEGEND: (X)

- 1. 16" TOWEL BAR
- 2. TOILET TISSUE HOLDER
- 3. CURVED SHOWER ROD
- 4. MEDICINE CABINET
- 5. MIRROR
- 6. HAND TOWEL RING
- 7. SOAP DISH
- 8. RECESSED CABINET ABOVE W.C.
- 9. 24" TOWEL BAR
- 10. GRAB BAR REINFORCEMENT: BTWN 2'-6" MAX. A.F.F. & 3'-2" MIN. A.F.F. (GRAB BARS TO BE INSTALLED IN ALL ANSI TYPE 'A' UNITS)
- 11. SHOWER HEAD
- 12. WATER CLOSET STD. HT.
- 13. LIGHT FIXTURE (SEE ELECTRICAL)
- 14. SINK
- 15. MICROWAVE
- 16. RANGE
- 17. DISHWASHER
- 18. REFRIGERATOR
- 19. OVEN
- 20. ANSI OVEN
- 21. VANITY CABINET W/SINK
- 22. 36" - TUB
- 23. EXHAUST FAN
- 24. 32" - TUB
- 25. 6X6 TILE
- 26. HAND HELD/FIXED SHOWER SPRAY UNIT WHOSE 60" MIN. LONG AND ADJUSTABLE BAR
- 27. REMOVABLE IN TUB SEAT
- 28. FIBERGLASS TUB W/ TILE SURROUND
- 29. GLASS SHOWER ENCLOSURE W/ TILE WALLS & ACRYLIC PRE-FABRICATED PAN.

UNIT 2C - Total Gross Area Schedule					
Name	Area	Bedrooms	Baths	Den	Occupants
UNIT 2C	1255 SF	2	2		
BALCONY	108 SF				
	1363 SF				

UNIT 2C - Total Net Area				
Unit Descriptor	Area	Bedrooms	Baths	Den
UNIT 2C	1,189 SF	2	2	
	1,189 SF			



1 UNIT 2C - DIMENSIONS & REFERENCE PLAN
3/8" = 1'-0"

- GENERAL NOTES:**
- ALL DIMENSIONS ARE FROM OUTSIDE FACE OF STUD UNLESS NOTED OTHERWISE.
 - REFER TO EXTERIOR ELEVATIONS AND BUILDING PLANS FOR WINDOW TYPE.
 - CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
 - REFER TO A3.30 - A3.32 FOR BALCONY PLANS SPECIFIC TO EACH UNIT AS IT OCCURS.
 - ALL PLUMBING WALLS NEED TO BE COORDINATED WITH PLUMBER TO DETERMINE 2X4 OR 2X6 CONSTRUCTION.
 - PROVIDE ONE 4-A, 10-B/C 5-B FIRE EXTINGUISHER PER UNIT. LOCATE PER FIRE DEPARTMENT REQUIREMENTS.
 - PROVIDE ACOUSTICAL UNDERLAYMENT UNDERNEATH VINYL PLANK FLOORING LOCATIONS WITHIN UNITS ON ELEVATED FLOORS. REFER TO SPECIFICATIONS FOR APPROVED PRODUCT.
 - PROVIDE DISPOSER AT ALL KITCHEN SINKS. REFER TO PLANS FOR AIR SWITCH LOCATION. PLACE ON SAME SIDE AS DISPOSER.
 - CLOSET DOORS:
 - A. 12" DEEP, TOP OF SHELVING IN CLOSETS SHALL BE AT 3'-0" AND 6'-0". SEE PLANS.
 - B. 12" DEEP SHELVING AT PANTRIES & LINEN CLOSETS. 5 SHELVES EQUALLY SPACED @ 13" A PART 16", 29", 42", 55" AND 68".
 - C. PROVIDE (5) 18" X 12" DEEP LINEN SHELVES EQUALLY SPACED AT BEDROOM/CLOSET ENDS WHERE INDICATED.
 - D. SHELVING AT LAUNDRY ROOMS - 24" DEEP @ 5'-7". SHELVING AT ENTRY CLOSETS - 12" DEEP @ 6'-0".
 - KITCHEN OUTLETS SHALL BE SPACED PER NEC. FHA REQUIRES THAT OUTLETS BE PLACED NO LESS THAN 3'-0" FROM THE CORNER UNLESS AN ADDITIONAL OUTLET IS ADDED. KITCHEN ELEVATIONS INDICATE APPROXIMATE DIMENSIONS NEEDED TO MEET BOTH NEC AND FHA. 4'-0" O.C. MAX. BETWEEN OUTLETS SHALL BE PROVIDED AROUND A CORNER.
 - SEE SHEET A3.10 FOR STANDARD MOUNTING HEIGHTS AND DETAILS.
 - PROVIDE WINDOW-EASE OPENING DEVICE AT ACCESSIBLE UNIT OPERABLE WINDOWS (WWW.WINDOWEASE.COM).

- UNIT KEYNOTES:** (X)
- ELECTRICAL PANEL. REFER TO ELECTRICAL DWGS.
 - HVAC UNIT. SEE MECHANICAL DRAWINGS.
 - WIRE SHELF & POLE @ 6'-0"
 - WIRE SHELF @ 3'-4" & 6'-0" AFF.
 - SHELF ABOVE WASHER @ 5'-6" AFF.
 - MAINTAIN MIN. 3'-0" CLEAR BETWEEN FINISHES AND FURNITURE. TYP.
 - CENTER LIGHTING FIXTURE ABOVE LAVATORY.
 - WASHER BOX.
 - DRYER VENT.
 - COMBO WASHER / DRYER BOX
 - MOVABLE KITCHEN ISLAND
 - PROVIDE FAN RATED REINFORCED J-BOX
 - ATTC ACCESS. TOP FLOOR UNITS ONLY.
 - WATER HEATER. SEE PLUMBING DRAWINGS.
 - ACCESS PANEL FOR MECH. UNIT.
 - FRAMELESS MIRROR.
 - WASHER.
 - DRYER.
 - STACKED WASHER/DRYER COMBO.
 - ICE MAKER CONNECTION.

ISSUE HISTORY		
No.	Date	Description

REVISION HISTORY		
No.	Date	Description

FUGLEBERG KOCH

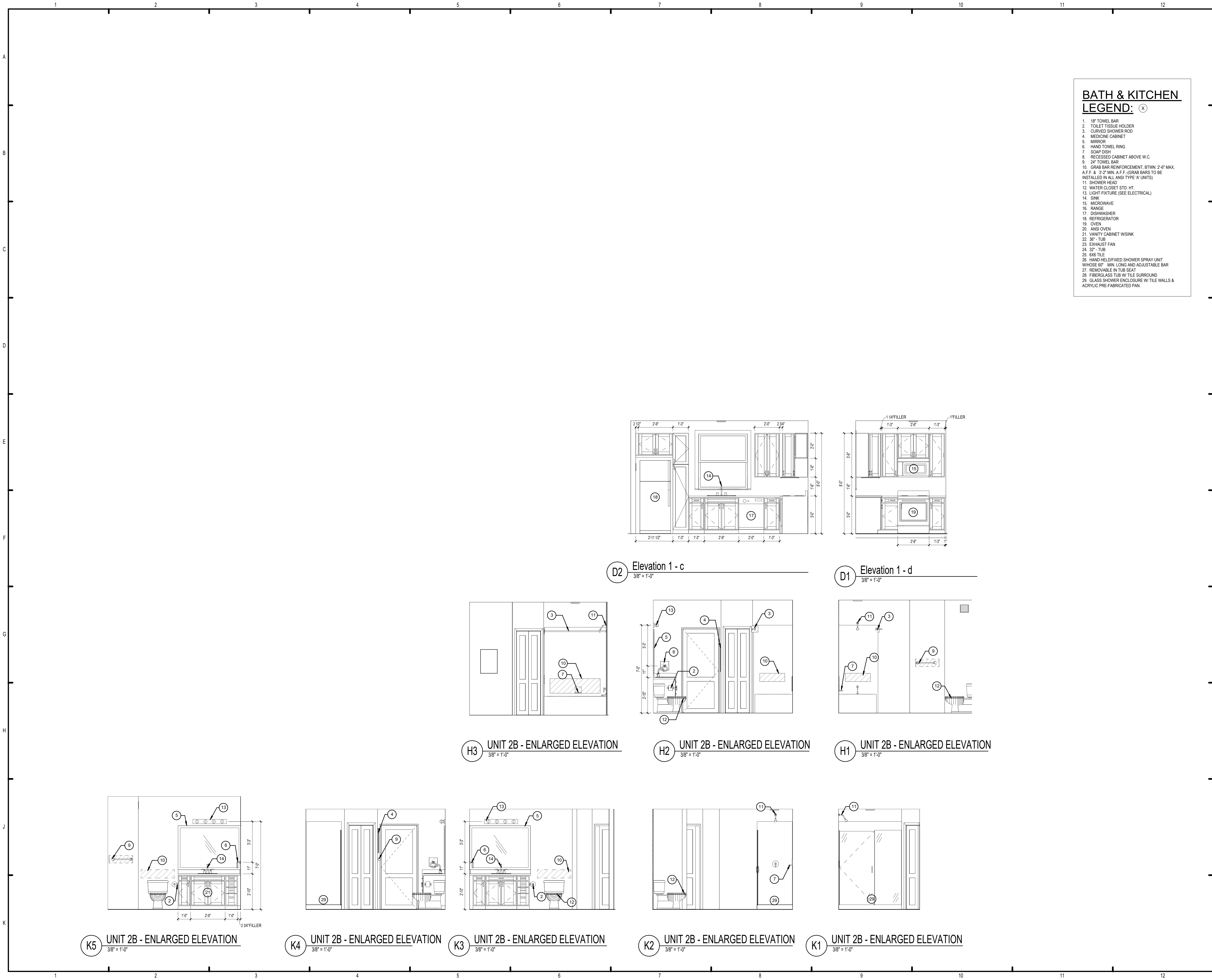
2355 Temple Trail, Winter Park, FL 32789 (407) 629-0595
www.fuglebergkoch.com AA26002103

CONSULTANT

THE ROBERT - MADISON MADISON, ALABAMA	Drawn	MB
	Checked	JK
	Approval	MS
	Date	04/15/2022
Project #		5722

UNIT 2C - 2BR UNIT PLAN

A3.06



**BATH & KITCHEN
LEGEND:** (X)

1. 18" TOWEL BAR
2. TOILET TISSUE HOLDER
3. CURVED SHOWER ROD
4. MEDICINE CABINET
5. MIRROR
6. HAND TOWEL RING
7. SOAP DISH
8. RECESSED CABINET ABOVE W.C.
9. 24" TOWEL BAR
10. GRAB BAR REINFORCEMENT, BTWN. 2'-6" MAX. A.F.F. & 3'-2" MIN. A.F.F. (GRAB BARS TO BE INSTALLED IN ALL ANSI TYPE 'K' UNITS)
11. SHOWER HEAD
12. WATER CLOSET STD. HT.
13. LIGHT FIXTURE (SEE ELECTRICAL)
14. SINK
15. MICROWAVE
16. RANGE
17. DISHWASHER
18. REFRIGERATOR
19. OVEN
20. ANSI OVEN
21. VANITY CABINET W/SINK
22. 36" TUB
23. EXHAUST FAN
24. 32" TUB
25. DUG TILE
26. HAND HELD/FIXED SHOWER SPRAY UNIT WHOSE 60" MIN. LONG AND ADJUSTABLE BAR
27. REMOVABLE IN TUB SEAT
28. FIBERGLASS TUB W/ TILE SURROUND
29. GLASS SHOWER ENCLOSURE W/ TILE WALLS & ACRYLIC PRE-FABRICATED PAN.

ISSUE HISTORY

No.	Date	Description

REVISION HISTORY

No.	Date	Description



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CONSULTANT

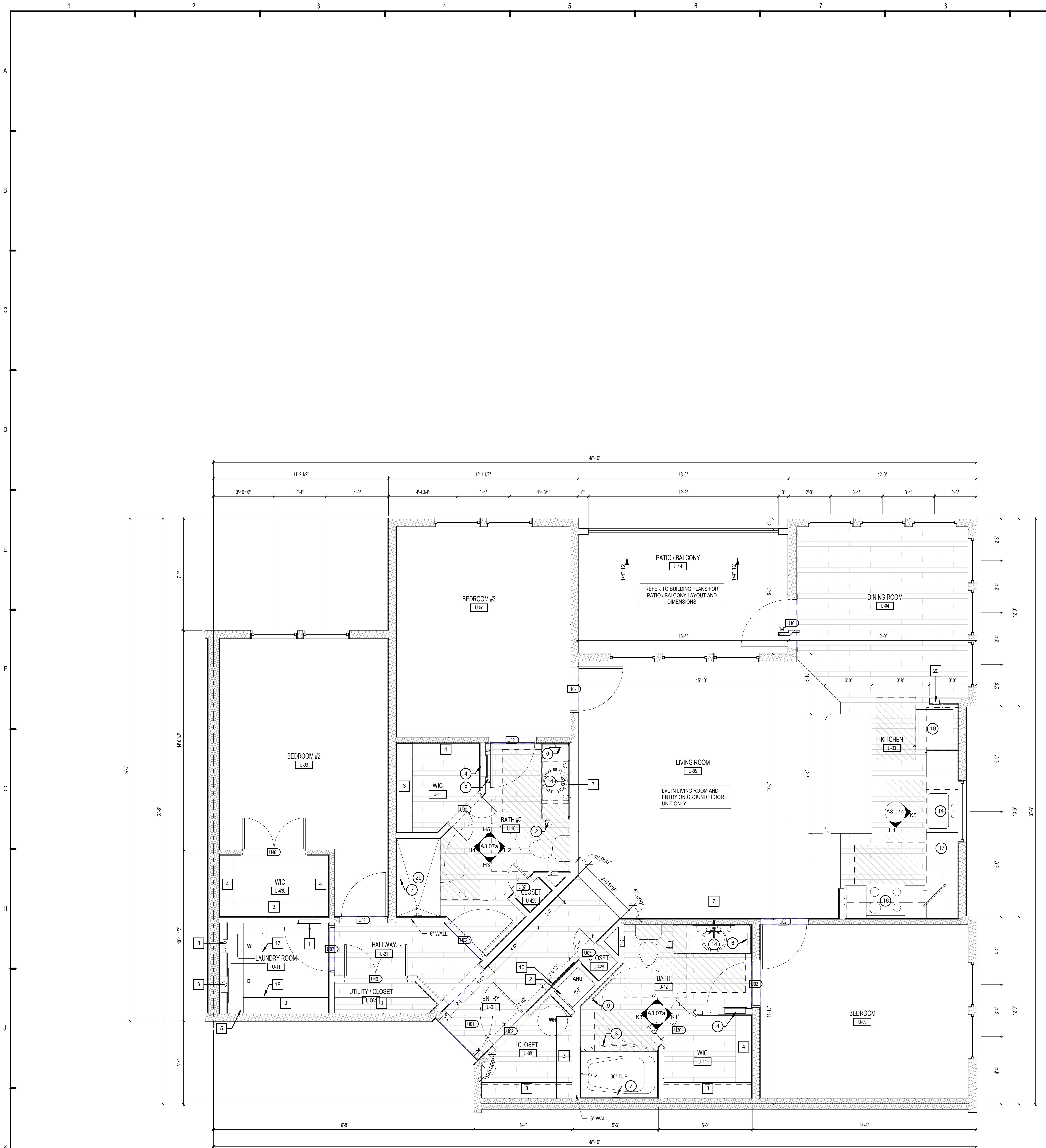


**THE ROBERT -
MADISON**
MADISON, ALABAMA

Drawn: MB
Checked: JK
Approval: MS
Date: 04/15/2022
Project #: 5722

UNIT 2B - 2 BR UNIT PLAN

A3.06a



K1 UNIT 3C - DIMENSIONS & REFERENCE PLAN
3/8" = 1'-0"

LEGEND:

- CLEAR FLOOR SPACE
- LEVEL CHANGE
- DENOTES BATHROOM ACCESSORY/KITCHEN APPLIANCE
- MIRROR
- HAND TOWEL RING
- SOAP DISH
- RECESSED CABINET ABOVE W.C.
- 24" TOWEL BAR
- GRAB BAR REINFORCEMENT, BTWN 2'-6" MAX. A.F.F. & 3'-2" MIN. A.F.F. (GRAB BARS TO BE INSTALLED IN ALL ANSI TYPE 'A' UNITS)
- SHOWER HEAD
- WATER CLOSET STD. HT.
- LIGHT FIXTURE (SEE ELECTRICAL)
- SINK
- MICROWAVE
- RANGE
- DISHWASHER
- REFRIGERATOR
- OVEN
- ANSI OVEN
- VANITY CABINET W/SINK
- 36" - TUB
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- 32" - TUB
- 6X6 TILE
- HAND HELD/FIXED SHOWER SPRAY UNIT WHOSE 60" MIN. LONG AND ADJUSTABLE BAR
- REMOVABLE IN TUB SEAT
- FIBERGLASS TUB W/ TILE SURROUND
- GLASS SHOWER ENCLOSURE W/ TILE WALLS & ACRYLIC PRE-FABRICATED PAN.

BATH & KITCHEN
LEGEND: (X)

- ALL DIMENSIONS ARE FROM OUTSIDE FACE OF STUD UNLESS NOTED OTHERWISE.
- REFER TO EXTERIOR ELEVATIONS AND BUILDING PLANS FOR WINDOW TYPE.
- CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- REFER TO A3.30 - A3.52 FOR BALCONY PLANS SPECIFIC TO EACH UNIT AS IT OCCURS THROUGHOUT.
- ALL PLUMBING WALLS NEED TO BE COORDINATED WITH FLUMBER TO DETERMINE 2X4 OR 2X6 CONSTRUCTION.
- PROVIDE ONE 4-A, 10-B-C 5-B FIRE EXTINGUISHER PER UNIT. LOCATE PER FIRE DEPARTMENT REQUIREMENTS.
- PROVIDE ACOUSTICAL UNDERLAYMENT UNDERNEATH VINYL PLANK FLOORING. LOCATIONS WITHIN UNITS ON ELEVATED FLOORS. REFER TO SPECIFICATIONS FOR APPROVED PRODUCT.
- PROVIDE DISPOSER AT ALL KITCHEN SINKS. REFER TO PLANS FOR AIR SWITCH LOCATION. PLACE ON SAME SIDE AS DISPOSER.
- CLOSET RODS:
 - 12" DEEP, TOP OF SHELVING IN CLOSETS SHALL BE AT 3'-0" AND 6'-0". SEE PLANS.
 - 12" DEEP SHELVING AT PANTRIES & LINEN CLOSETS: 5 SHELVES EQUALLY SPACED @ 13" A PART (16", 20", 42", 55" AND 80").
 - PROVIDE (6) 16" X 12" DEEP LINEN SHELVES EQUALLY SPACED AT BEDROOM CLOSET ENDS WHERE INDICATED.
 - SHELVING AT LAUNDRY ROOMS - 24" DEEP @ 5'-7". SHELVING AT ENTRY CLOSETS - 12" DEEP @ 6'-0".
- KITCHEN OUTLETS SHALL BE SPACED PER NEC. FHA REQUIRES THAT OUTLETS BE PLACED NO LESS THAN 3'-0" FROM THE CORNER UNLESS AN ADDITIONAL OUTLET IS ADDED. KITCHEN ELEVATIONS INDICATE APPROXIMATE DIMENSIONS NEEDED TO MEET BOTH NEC AND FHA. 4'-0" O.C. MAX. BETWEEN OUTLETS SHALL BE PROVIDED AROUND A CORNER.
- SEE SHEET A3.10 FOR STANDARD MOUNTING HEIGHTS AND DETAILS.
- PROVIDE WINDOW CASE OPENING DEVICE AT ACCESSIBLE UNIT OPERABLE WINDOWS (WWW.WINDOWEASE.COM).

UNIT 3C - Total Gross Area Schedule					
Name	Area	Bedrooms	Baths	Den	Occupants
UNIT 3C	1540 SF	3	3		
BALCONY	103 SF				
	1643 SF				

UNIT 3C - Total Net Area				
Unit Descriptor	Area	Bedrooms	Baths	Den
UNIT 3C	1,462 SF	3	3	
	1,462 SF			

UNIT KEYNOTES: (X)

- ELECTRICAL PANEL REFER TO ELECTRICAL DWGS.
- HVAC UNIT. SEE MECHANICAL DRAWINGS.
- WIRE SHELF & POLE @ 6'-0"
- WIRE SHELF @ 3'-4" & 4'-0" AFF.
- SHELF ABOVE WASHER @ 5'-6" AFF.
- MAINTAIN MIN. 3'-0" CLEAR BETWEEN FINISHES AND FURNITURE. TYP.
- CENTER LIGHTING FIXTURE ABOVE LAVATORY.
- WASHER BOX.
- DRYER VENT.
- COMBO WASHER / DRYER BOX
- MOVABLE KITCHEN ISLAND
- PROVIDE FAN RATED REINFORCED J-BOX
- ATTIC ACCESS, TOP FLOOR UNITS ONLY.
- WATER HEATER. SEE PLUMBING DRAWINGS.
- ACCESS PANEL FOR MECH. UNIT.
- FRAMELESS MIRROR.
- WASHER.
- DRYER.
- STACKED WASHER/DRYER COMBO.
- ICE MAKER CONNECTION.

ISSUE HISTORY

No.	Date	Description

REVISION HISTORY

No.	Date	Description


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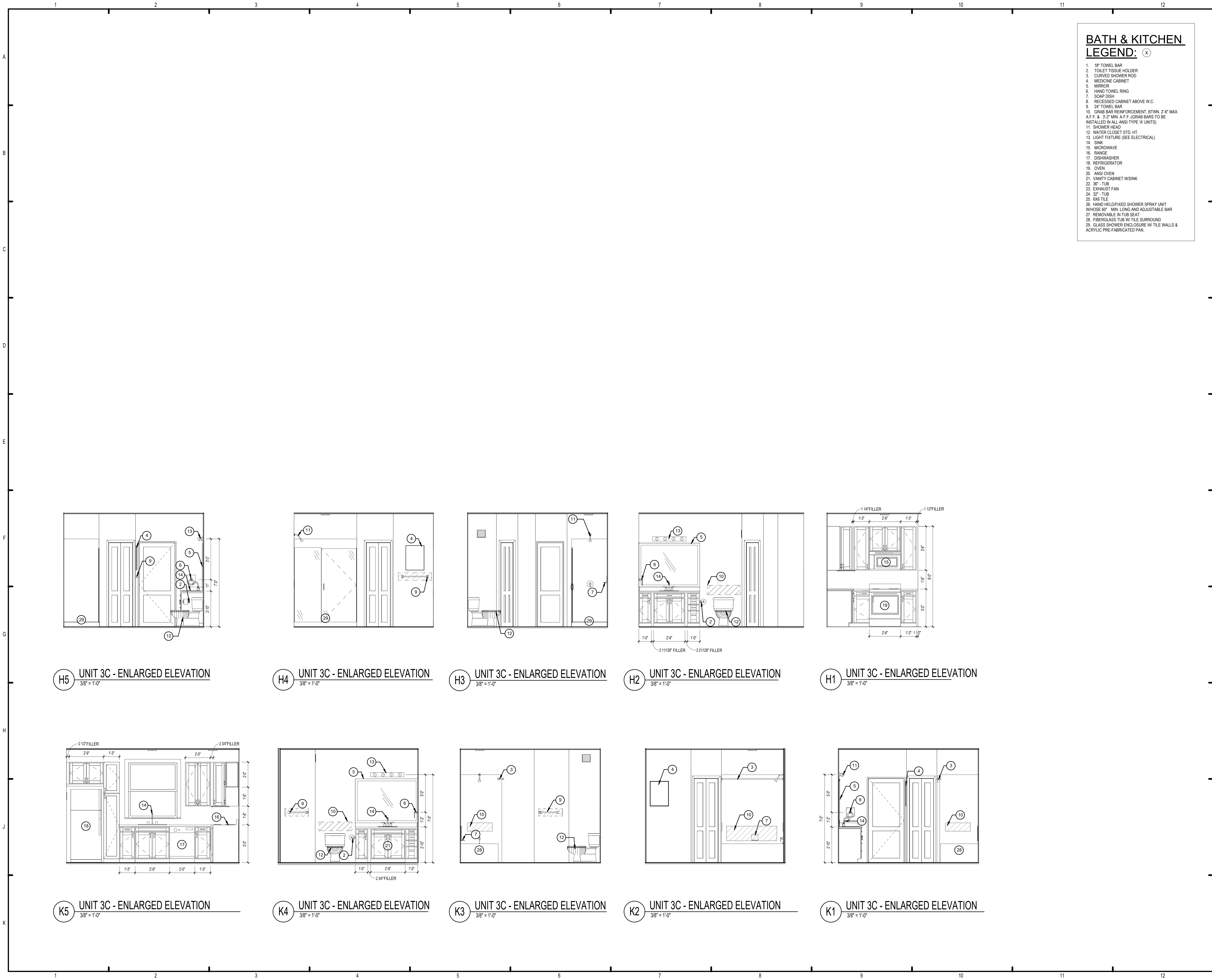


**THE ROBERT -
MADISON**
MADISON, ALABAMA

Drawn	MS
Checked	JK
Approval	MS
Date	04/15/2022
Project #	5722

UNIT 3C - 3BR UNIT PLAN

A3.07



**BATH & KITCHEN
LEGEND:** (X)

- 1. 18" TOWEL BAR
- 2. TOILET TISSUE HOLDER
- 3. CURVED SHOWER ROD
- 4. MEDICINE CABINET
- 5. MIRROR
- 6. HAND TOWEL RING
- 7. SOAP DISH
- 8. RECESSED CABINET ABOVE W.C.
- 9. 24" TOWEL BAR
- 10. GRAB BAR REINFORCEMENT, BTWN, 2'-6" MAX.
- 11. WATER CLOSET STD. HT.
- 12. SHOWER HEAD
- 13. LIGHT FIXTURE (SEE ELECTRICAL)
- 14. SINK
- 15. MICROWAVE
- 16. RANGE
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- 26. HAND HELD/FIXED SHOWER SPRAY UNIT
- 27. REMOVABLE IN-TUB SEAT
- 28. FIBERGLASS TUB W/ TILE SURROUND
- 29. GLASS SHOWER ENCLOSURE W/ TILE WALLS & ACRYLIC PRE-FABRICATED PAN

ISSUE HISTORY

No.	Date	Description

REVISION HISTORY

No.	Date	Description

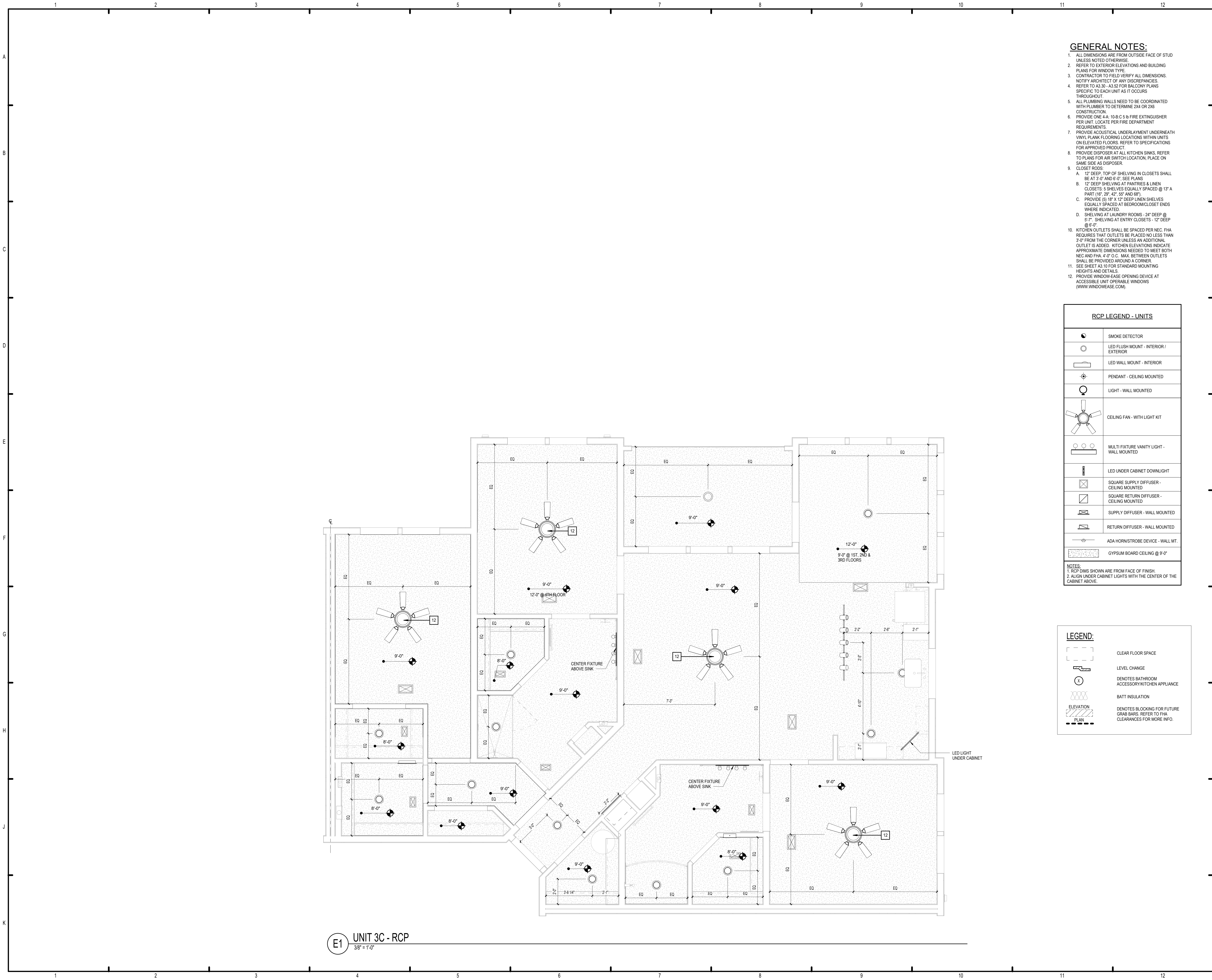
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www.fuglebergkoch.com AA26002103



THE ROBERT - MADISON	Drawn: MB Checked: JK Approval: MS Date: 04/15/2022 Project #: 5722
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UNIT 3C - 3BR UNIT PLAN

A3.07a



- GENERAL NOTES:**
- ALL DIMENSIONS ARE FROM OUTSIDE FACE OF STUD UNLESS NOTED OTHERWISE.
 - REFER TO EXTERIOR ELEVATIONS AND BUILDING PLANS FOR WINDOW TYPE.
 - CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
 - REFER TO A3.30 - A3.32 FOR BALCONY PLANS SPECIFIC TO EACH UNIT AS IT OCCURS THROUGHOUT.
 - ALL PLUMBING WALLS NEED TO BE COORDINATED WITH PLUMBER TO DETERMINE 2X4 OR 2X6 CONSTRUCTION.
 - PROVIDE ONE 4-A, 10-B, C 5-B FIRE EXTINGUISHER PER UNIT. LOCATE PER FIRE DEPARTMENT REQUIREMENTS.
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 - PROVIDE DISPOSER AT ALL KITCHEN SINKS. REFER TO PLANS FOR AIR SWITCH LOCATION. PLACE ON SAME SIDE AS DISPOSER.
 - CLOSET RODS:
 - 12" DEEP, TOP OF SHELVING IN CLOSETS SHALL BE AT 3'-0" AND 5'-0". SEE PLANS.
 - 12" DEEP SHELVING AT PANTRIES & LINEN CLOSETS: 5 SHELVES EQUALLY SPACED @ 13" A PART (18", 28", 42", 55" AND 66").
 - PROVIDE (6) 18" X 12" DEEP LINEN SHELVES EQUALLY SPACED AT BEDROOM/CLOSET ENDS WHERE INDICATED.
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 - SEE SHEET A3.10 FOR STANDARD MOUNTING HEIGHTS AND DETAILS.
 - PROVIDE WINDOW-EASE OPENING DEVICE AT ACCESSIBLE UNIT OPERABLE WINDOWS (WWW.WINDOWEASE.COM).

RCP LEGEND - UNITS	
	SMOKE DETECTOR
	LED FLUSH MOUNT - INTERIOR / EXTERIOR
	LED WALL MOUNT - INTERIOR
	PENDANT - CEILING MOUNTED
	LIGHT - WALL MOUNTED
	CEILING FAN - WITH LIGHT KIT
	MULTI FIXTURE VANITY LIGHT - WALL MOUNTED
	LED UNDER CABINET DOWNLIGHT
	SQUARE SUPPLY DIFFUSER - CEILING MOUNTED
	SQUARE RETURN DIFFUSER - CEILING MOUNTED
	SUPPLY DIFFUSER - WALL MOUNTED
	RETURN DIFFUSER - WALL MOUNTED
	ADA HORN/STROBE DEVICE - WALL MT.
	GYPSUM BOARD CEILING @ 9'-0"
NOTES: 1. RCP DIMS SHOWN ARE FROM FACE OF FINISH. 2. ALIGN UNDER CABINET LIGHTS WITH THE CENTER OF THE CABINET ABOVE.	

LEGEND:	
	CLEAR FLOOR SPACE
	LEVEL CHANGE
	DENOTES BATHROOM ACCESSORY/KITCHEN APPLIANCE
	BATT INSULATION
	DENOTES BLOCKING FOR FUTURE GRAB BARS. REFER TO FHA CLEARANCES FOR MORE INFO.

ISSUE HISTORY

No.	Date	Description

REVISION HISTORY

No.	Date	Description



FUGLEBERG KOCH

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CONSULTANT

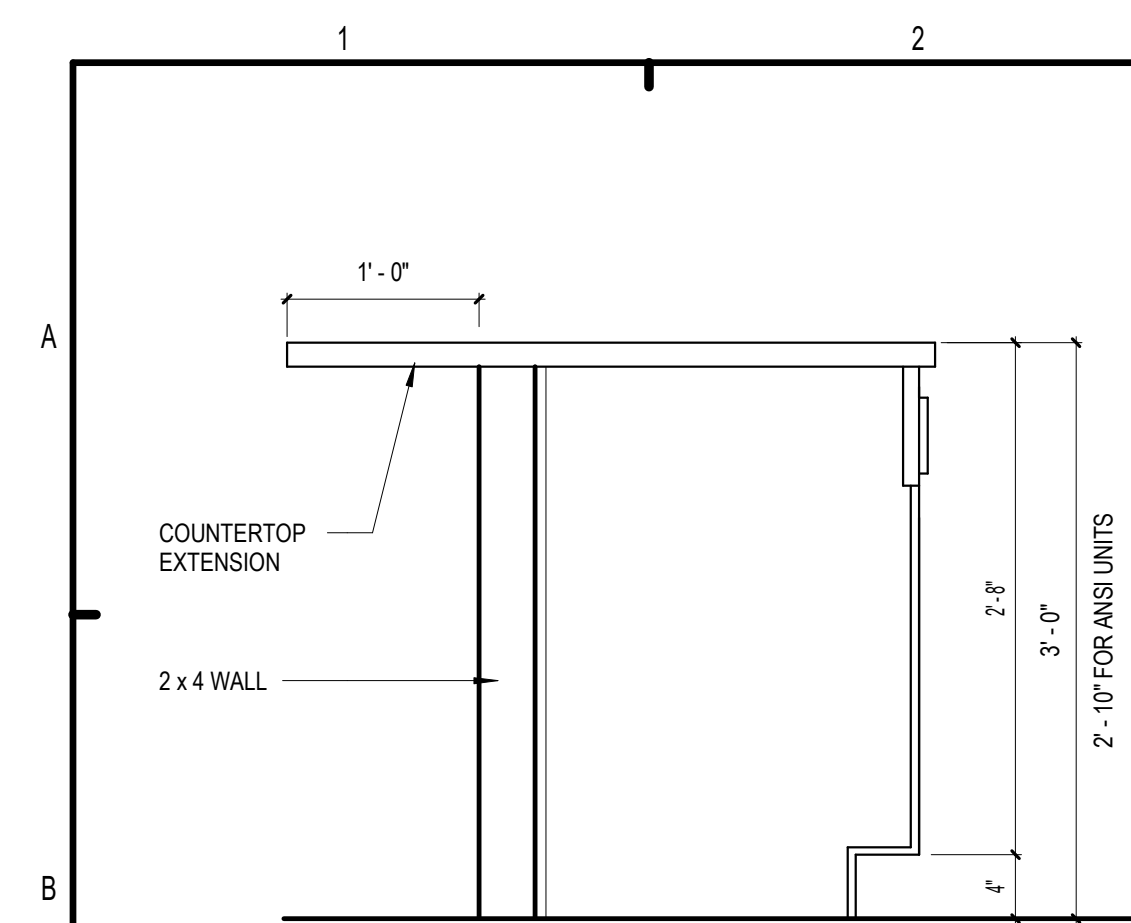


THE ROBERT -
MADISON
MADISON, ALABAMA

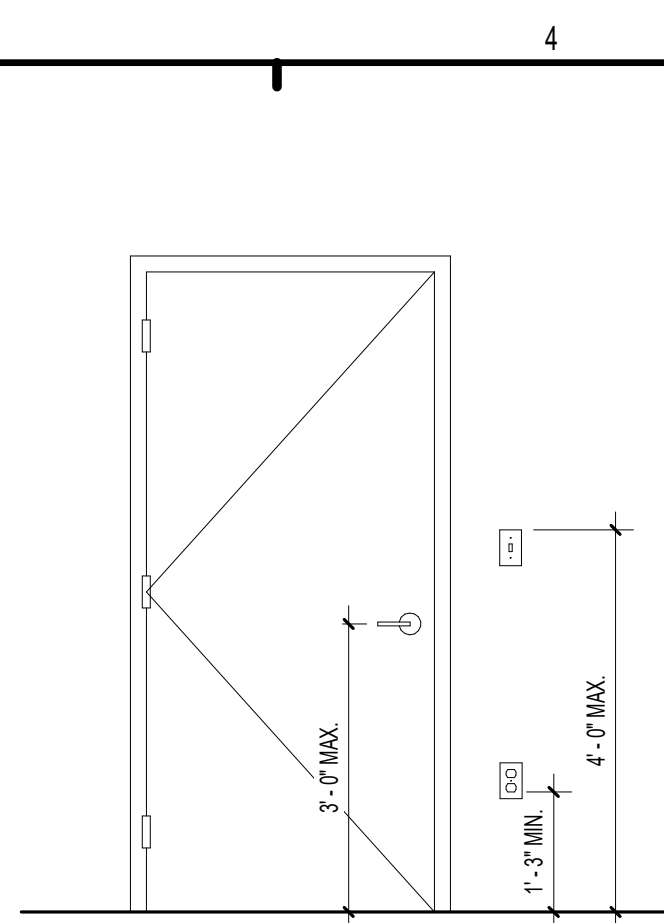
Drawn	MB
Checked	JK
Approval	MS
Date	04/15/2022
Project #	5722

UNIT 3C - RCP

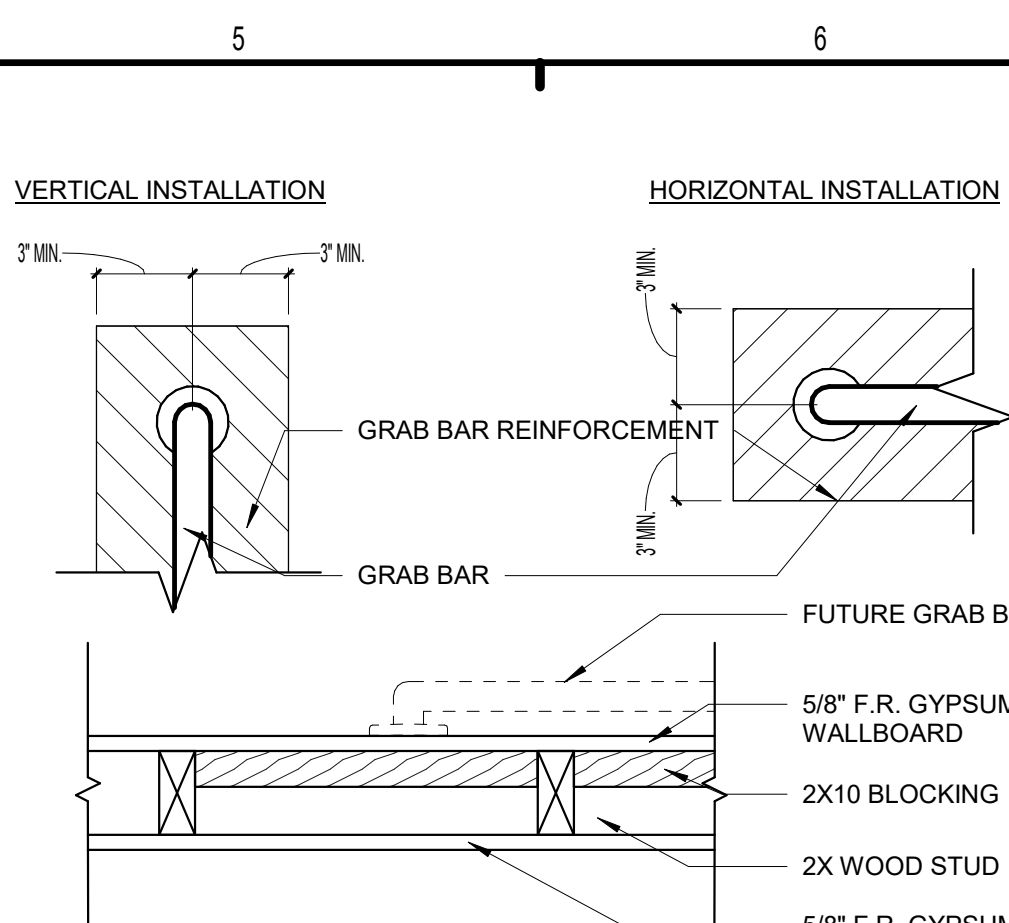
A3.08



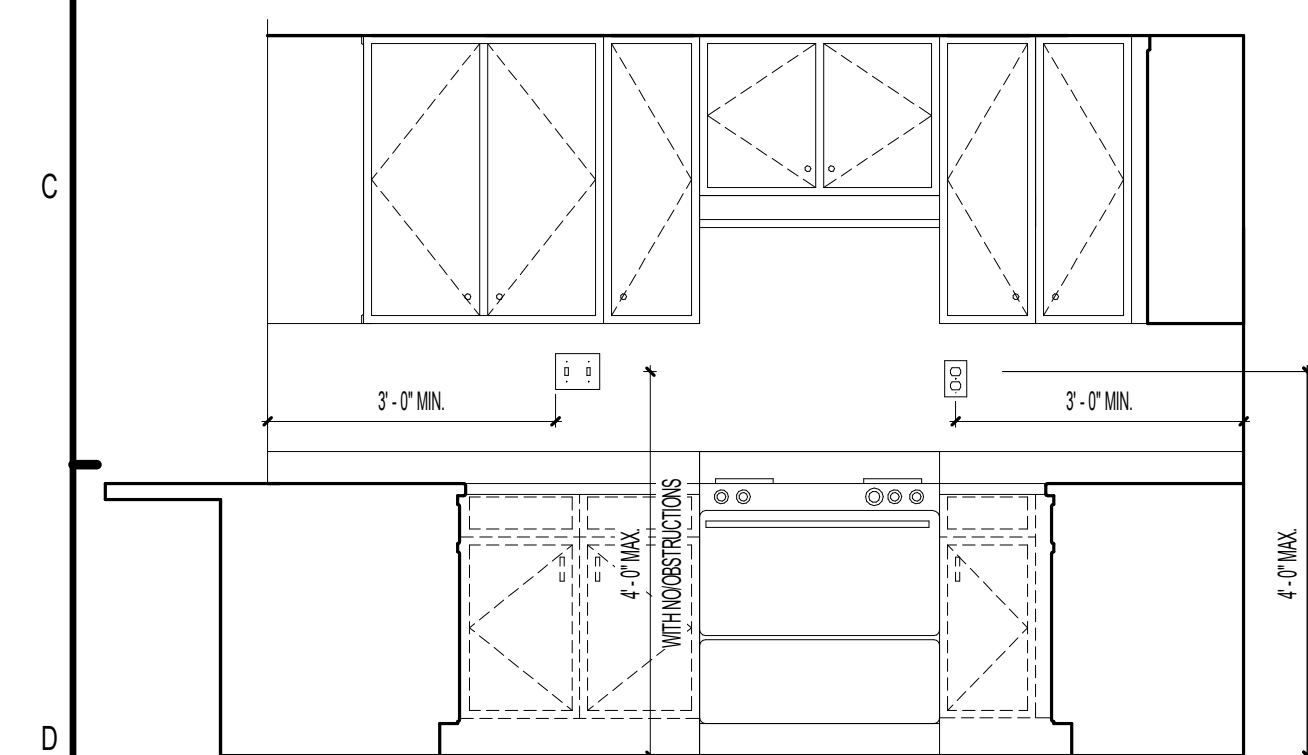
B1 COUNTERTOP DETAIL AT KITCHEN
1" = 1'-0"



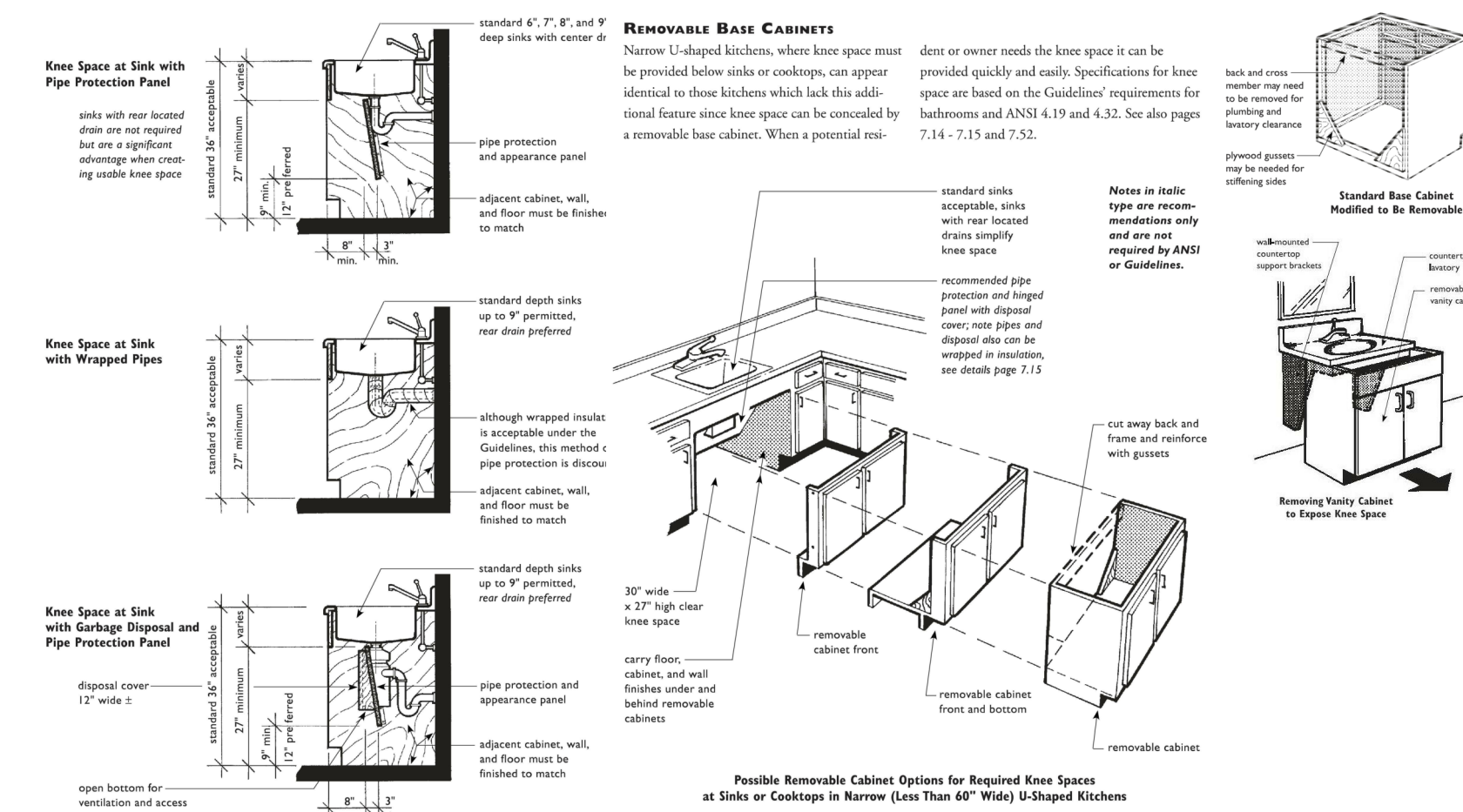
B3 TYP. FHA MOUNTING HT. REQ
1/2" = 1'-0"



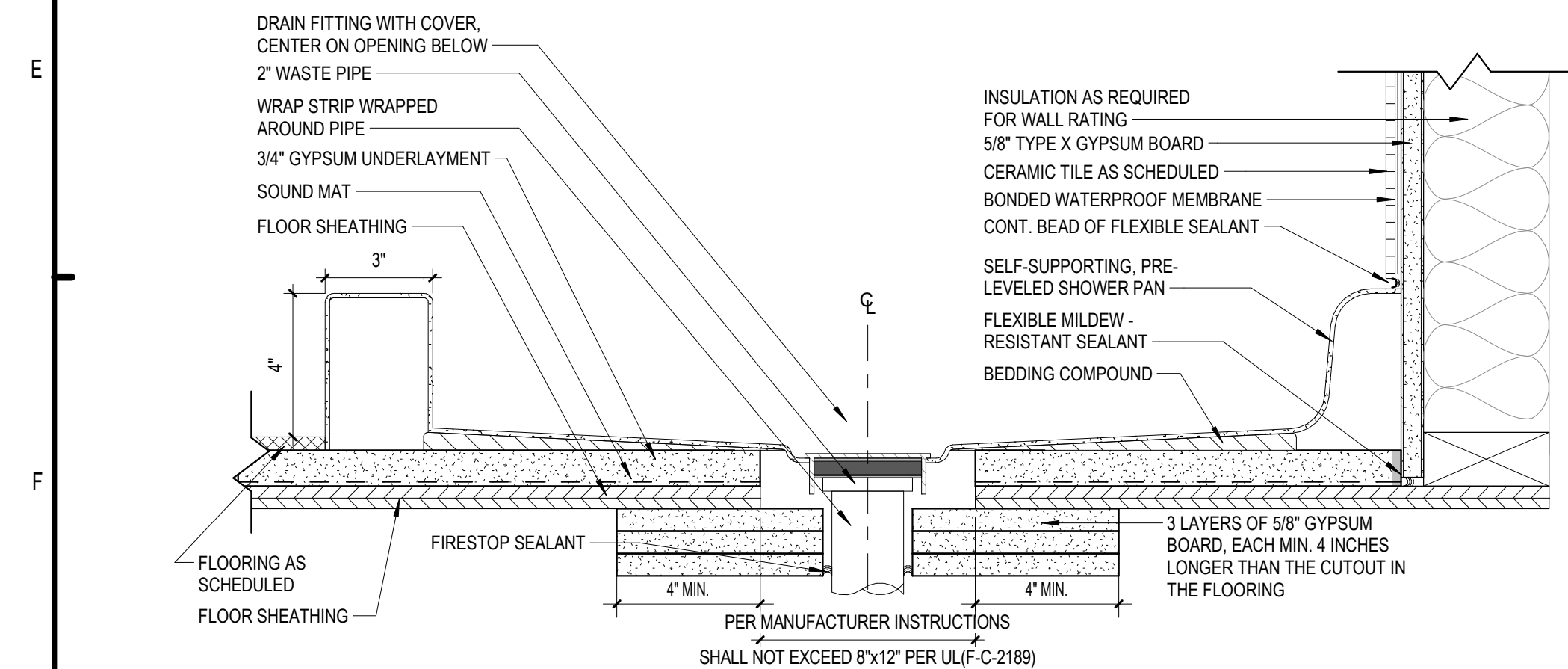
B5 BLOCKING FOR FUTURE GRAB BARS
1 1/2" = 1'-0"



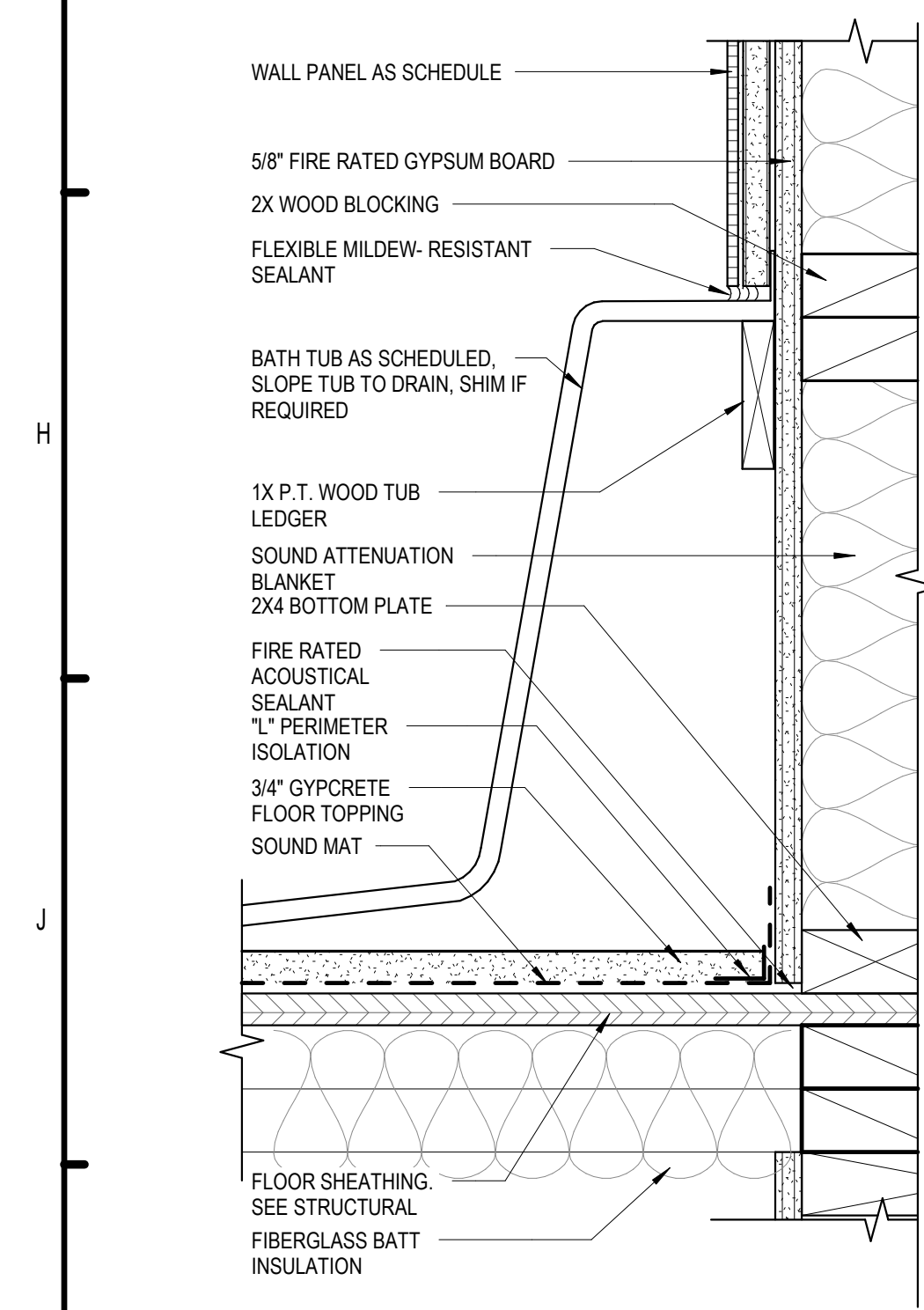
D1 TYP. FHA KITCHEN MOUNTING HT. REQ.
1/2" = 1'-0"



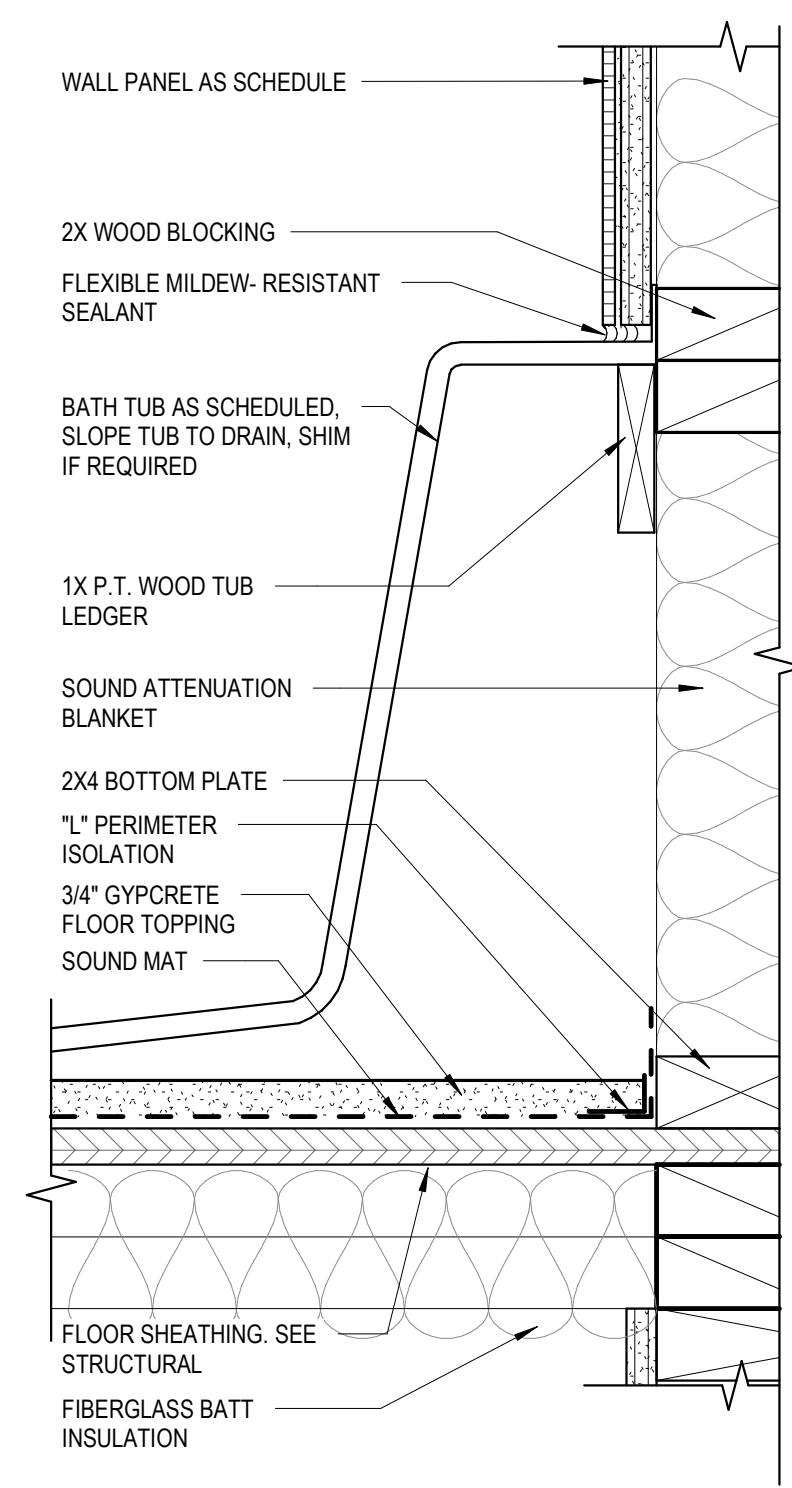
D3 REMOVABLE CABINET DETAIL Copy 1
3/8" = 1'-0"



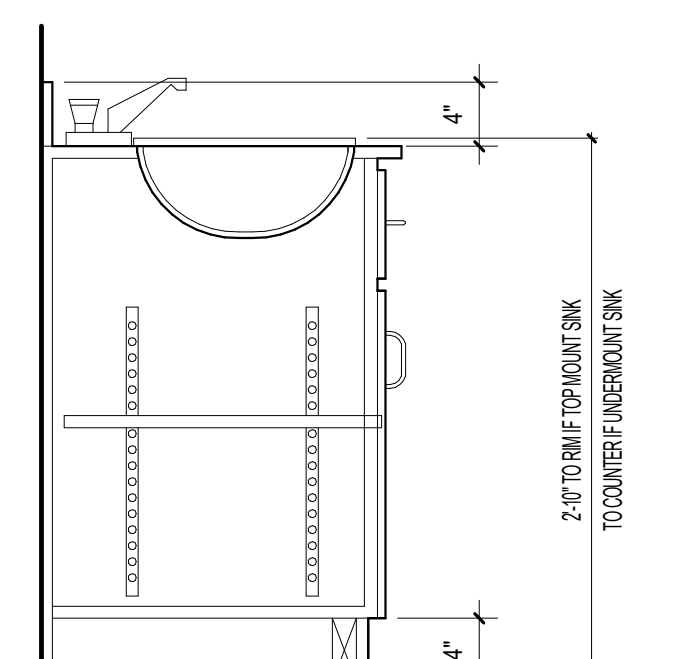
F1 SHOWER FRAMING DETAIL
3" = 1'-0"



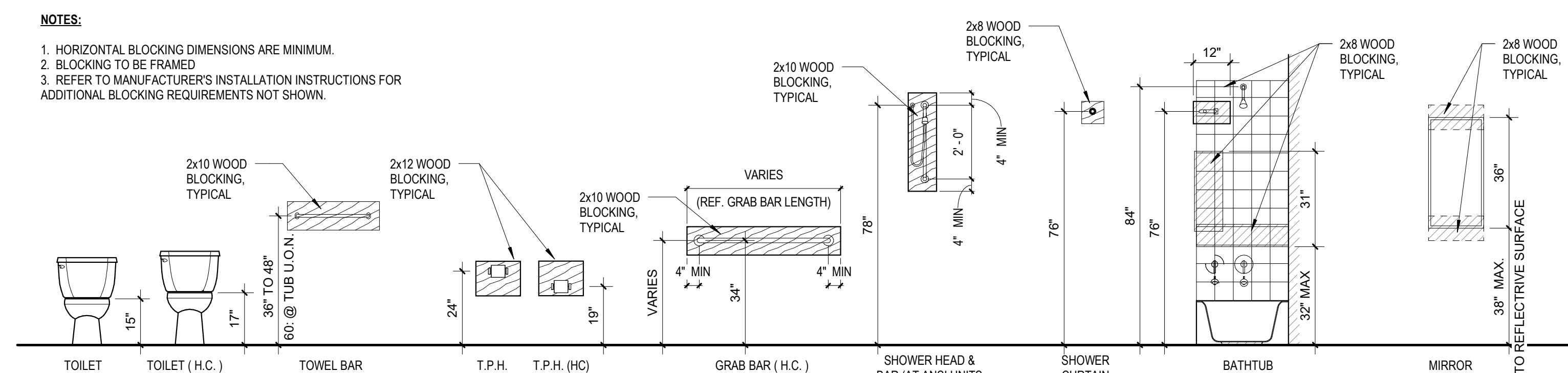
FIRE RATED CONDITION



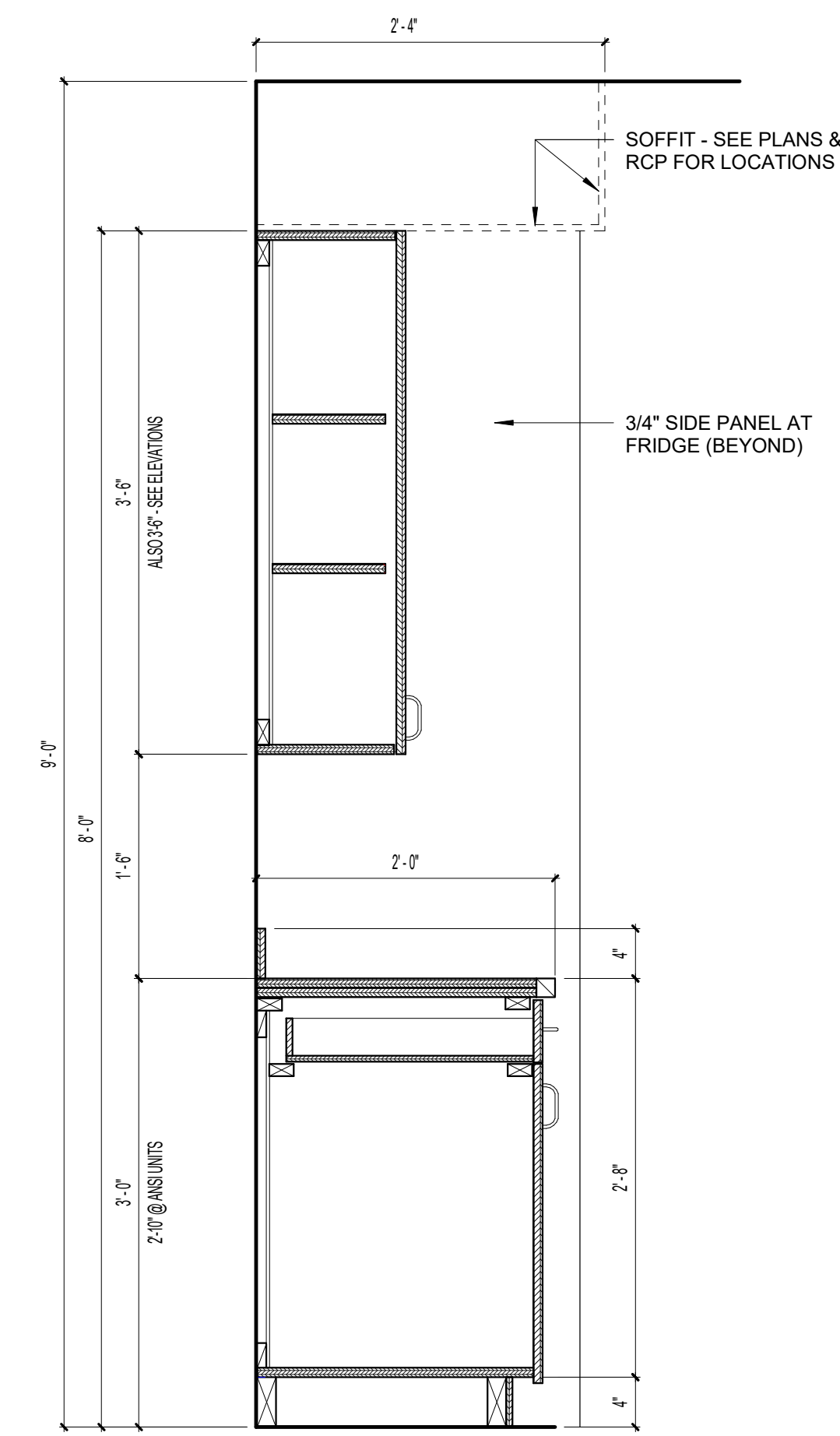
NON-FIRE RATED CONDITION



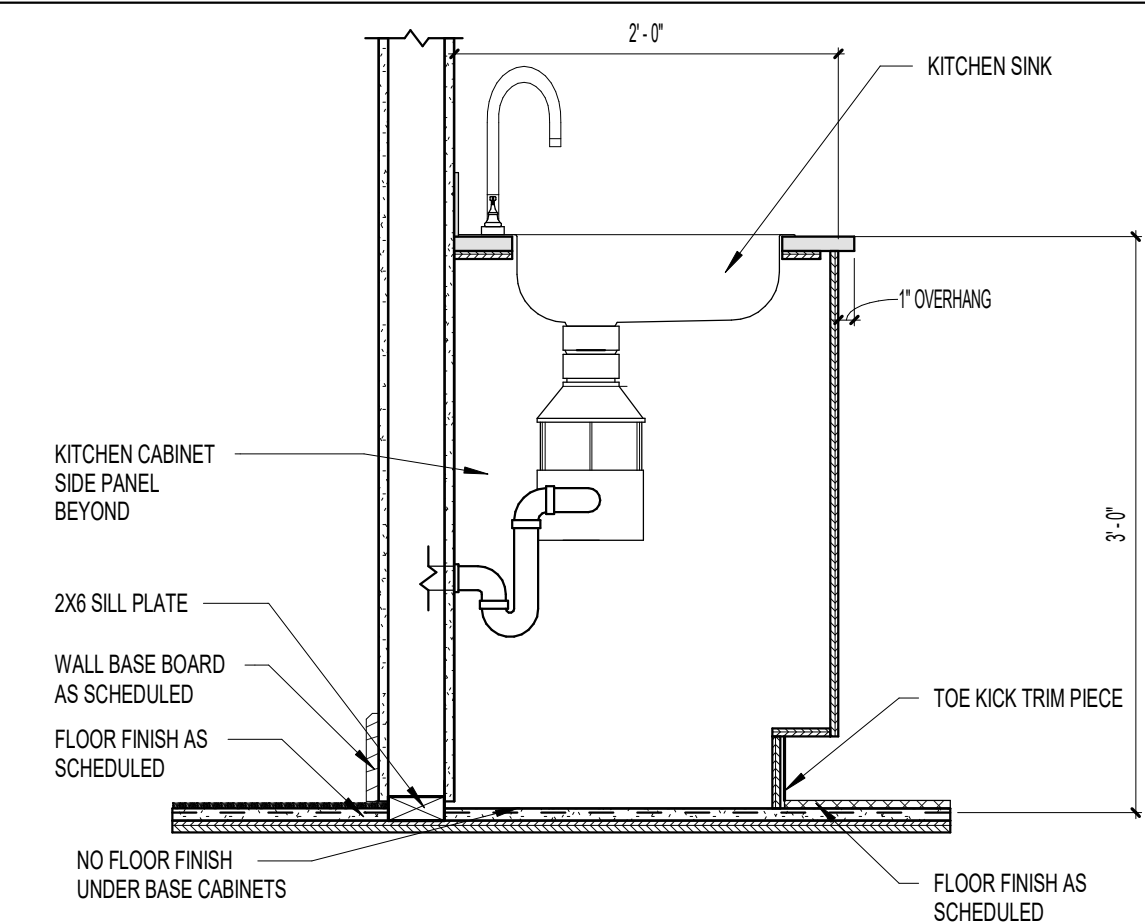
K5 BASE CABINET DETAIL AT BATH
1" = 1'-0"



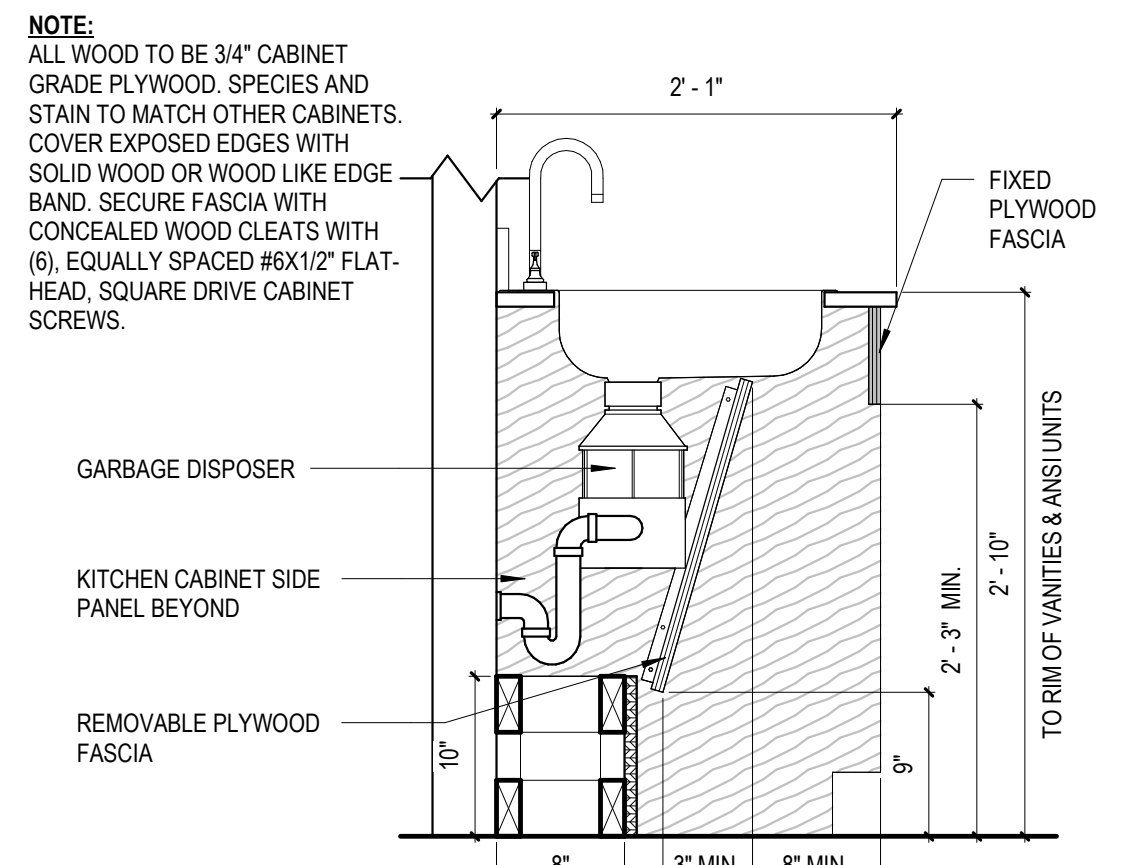
K7 BATH FIXTURE CLEAR HEIGHTS
3/8" = 1'-0"



H11 KITCHEN CABINET SECTION
1" = 1'-0"



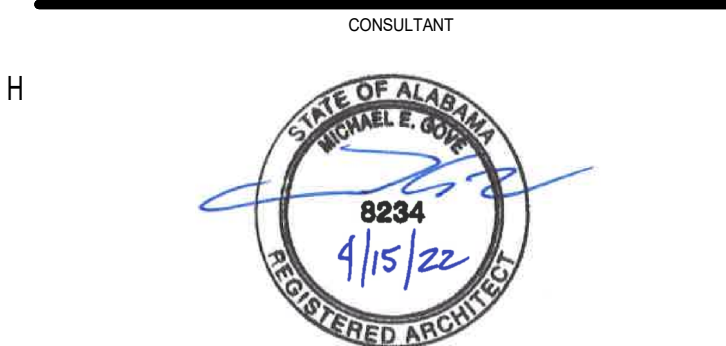
F8 KITCHEN SINK DETAIL 1
1" = 1'-0"



D8 REMOVABLE KITCHEN BASE CABINET DETAIL
1" = 1'-0"

ISSUE HISTORY		
No.	Date	Description
1	04/15/2022	PERMIT SUBMITTAL

REVISION HISTORY		
No.	Date	Description

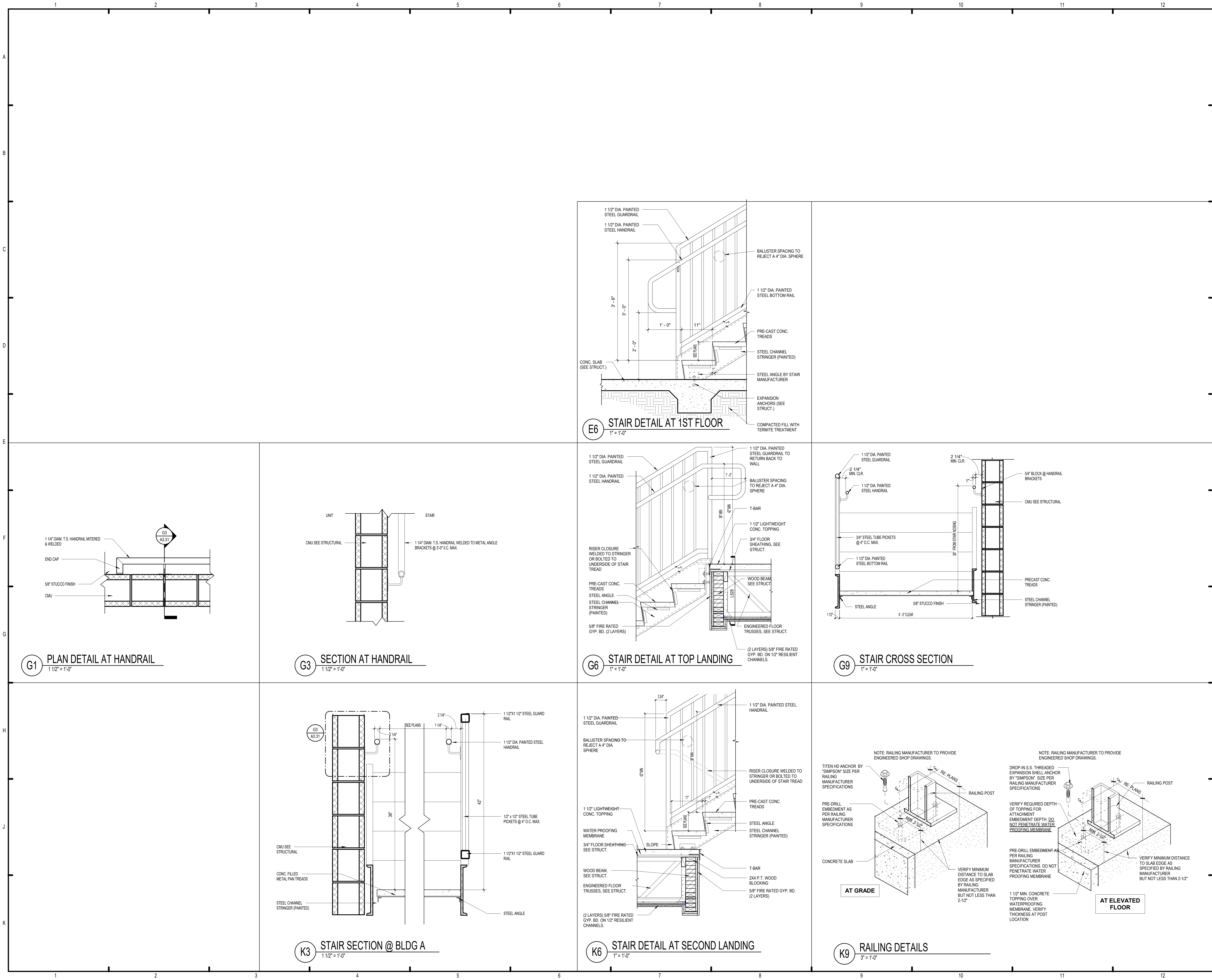


MICHAEL GOVE
8234

<h1>THE ROBERT MADISON</h1> <p>MADISON, ALABAMA</p>	Drawn: _____
	Checked: _____
	Approval: _____
	Date: 04/15/2014
	Project #: 57

KITCHEN, BATH AND LAUNDRY REQUIREMENTS

A3.22



ISSUE HISTORY		
No.	Date	Description
1	04/15/2022	PERMIT SUBMITTAL
REVISION HISTORY		
No.	Date	Description



FUGLEBERG KOCH

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CONSULTANT



8234
1/15/22
REGISTERED ARCHITECT

MICHAEL DOVE
ISA

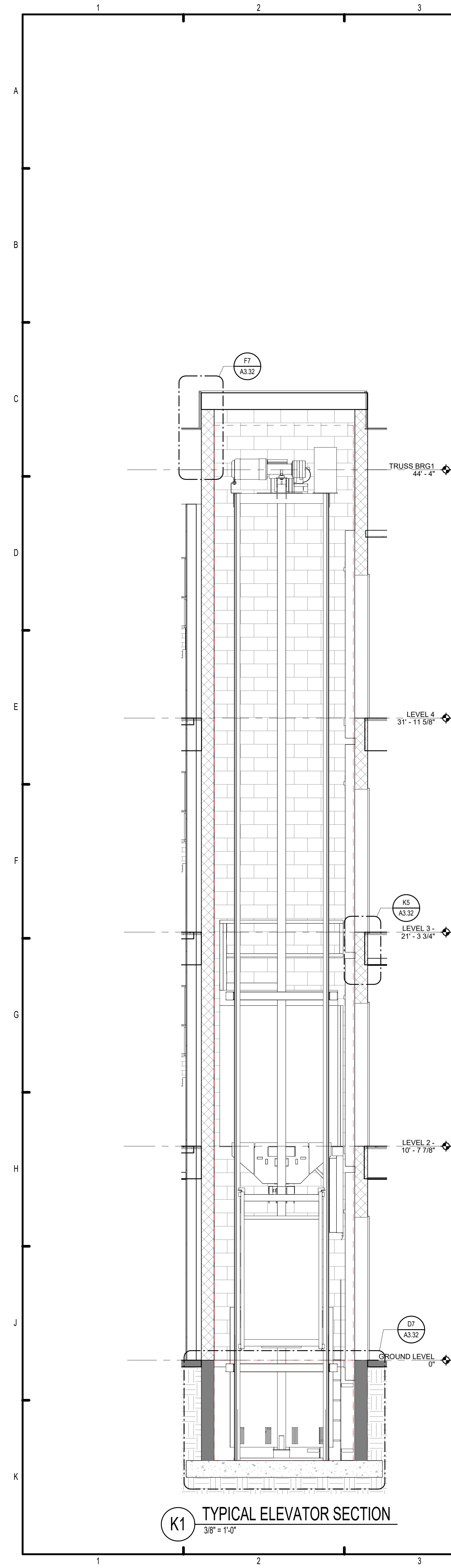
THE ROBERT MADISON

MADISON, ALABAMA

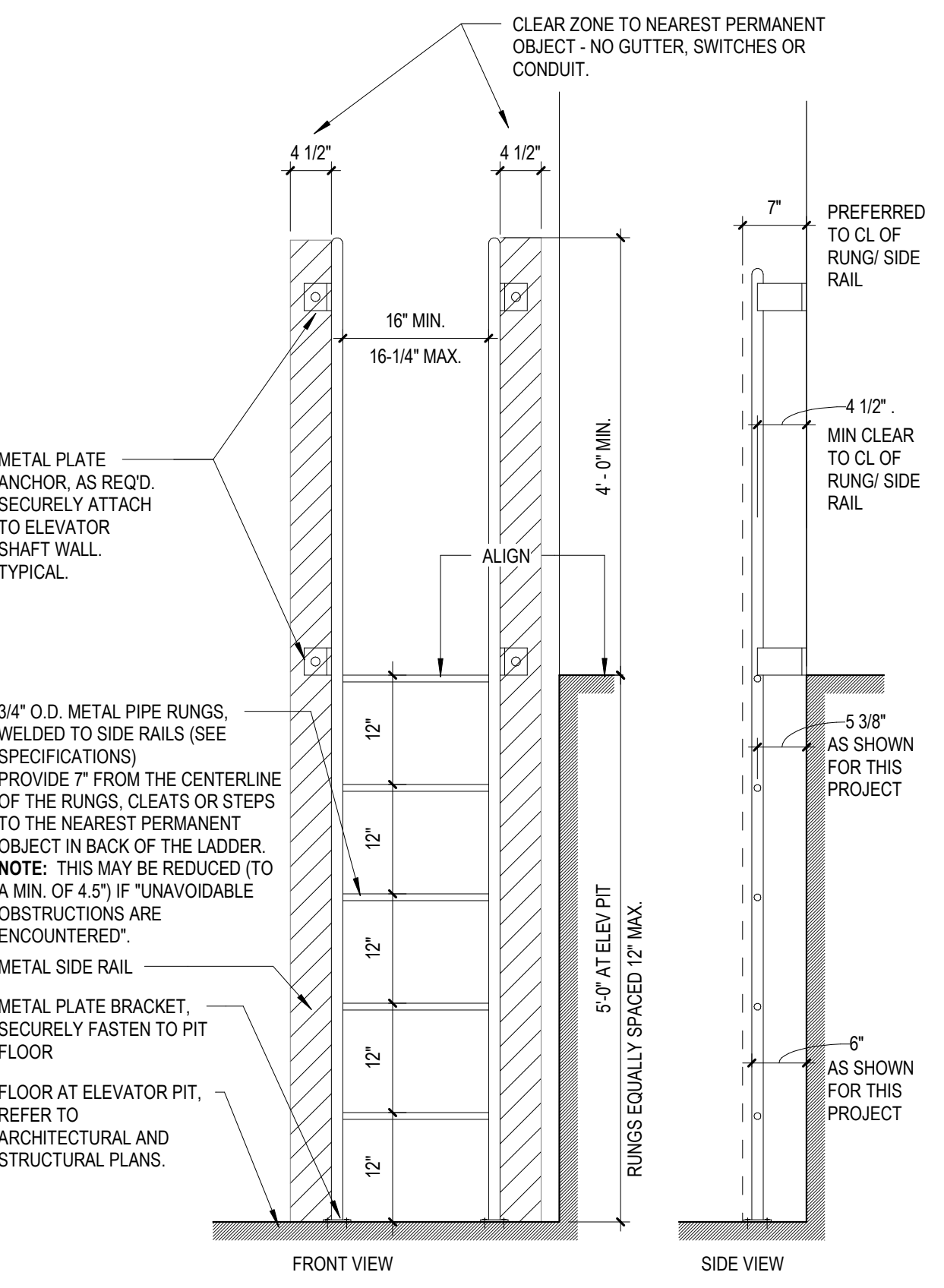
Drawn	MS
Checked	JK
Approval	MS
Date	04/15/2022
Project #	5722

STAIR SECTION DETAILS

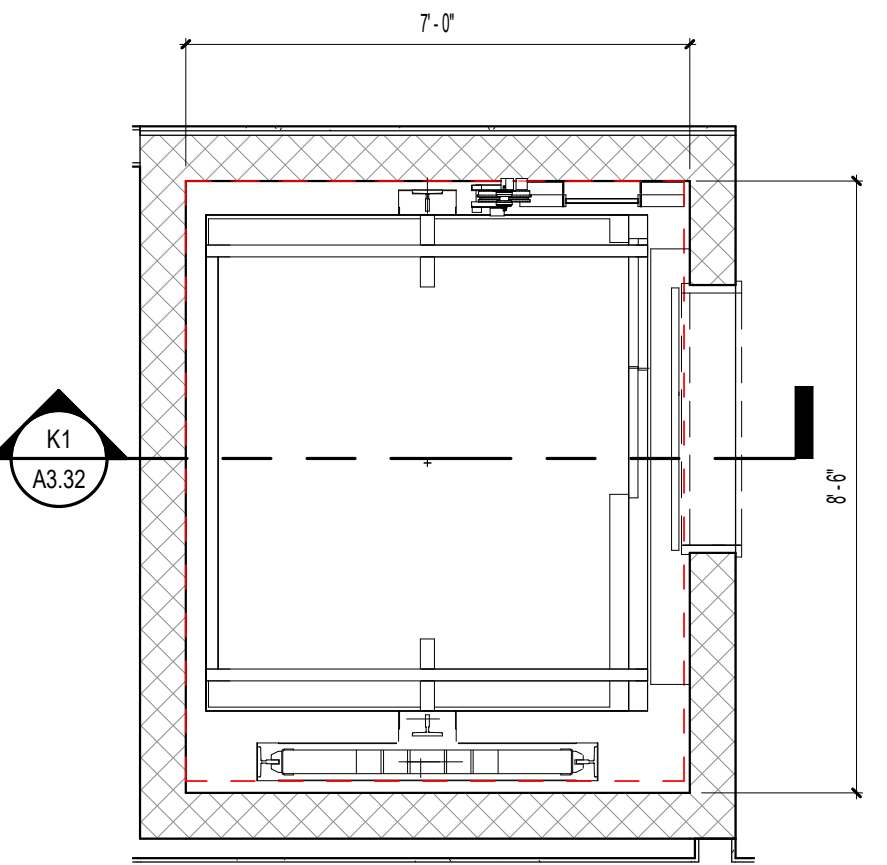
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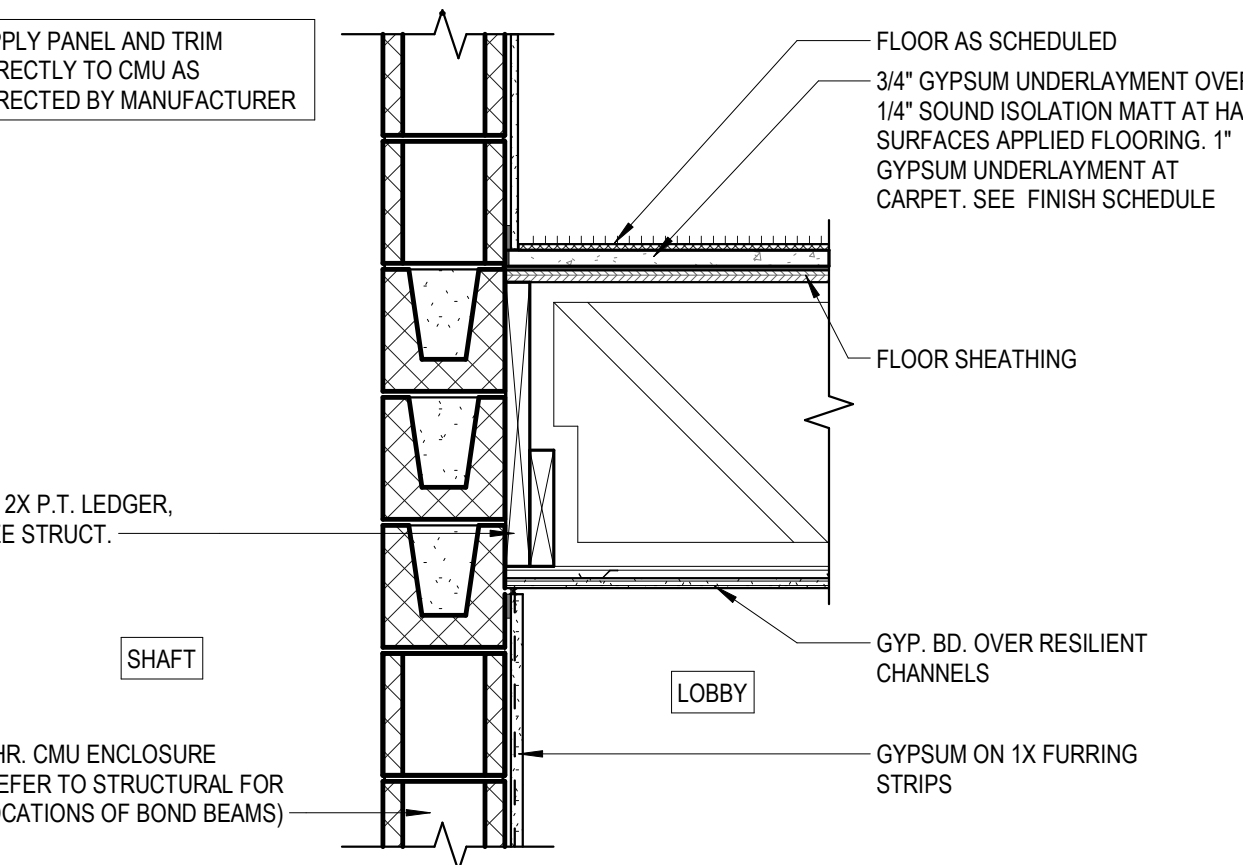
GENERAL NOTES:
PROVIDED DATA IS FOR REFERENCE ONLY. COMPONENT MATERIALS, SIZES, FABRICATION, AND ATTACHMENTS ARE TO BE CONFIRMED BY REQUIRED ENGINEER SUBMITTAL. SUBMIT ENGINEER FABRICATION DRAWINGS FOR REVIEW.
SUBMITTED LADDER DESIGN AND INSTALLATION MUST MEET OR EXCEED DESIGN LOAD REQUIRED BY APPLICABLE CODES AND REGULATIONS.
ALL COMPONENTS ARE TO BE PRIME AND PAINTED. REFER TO SPECIFICATIONS.



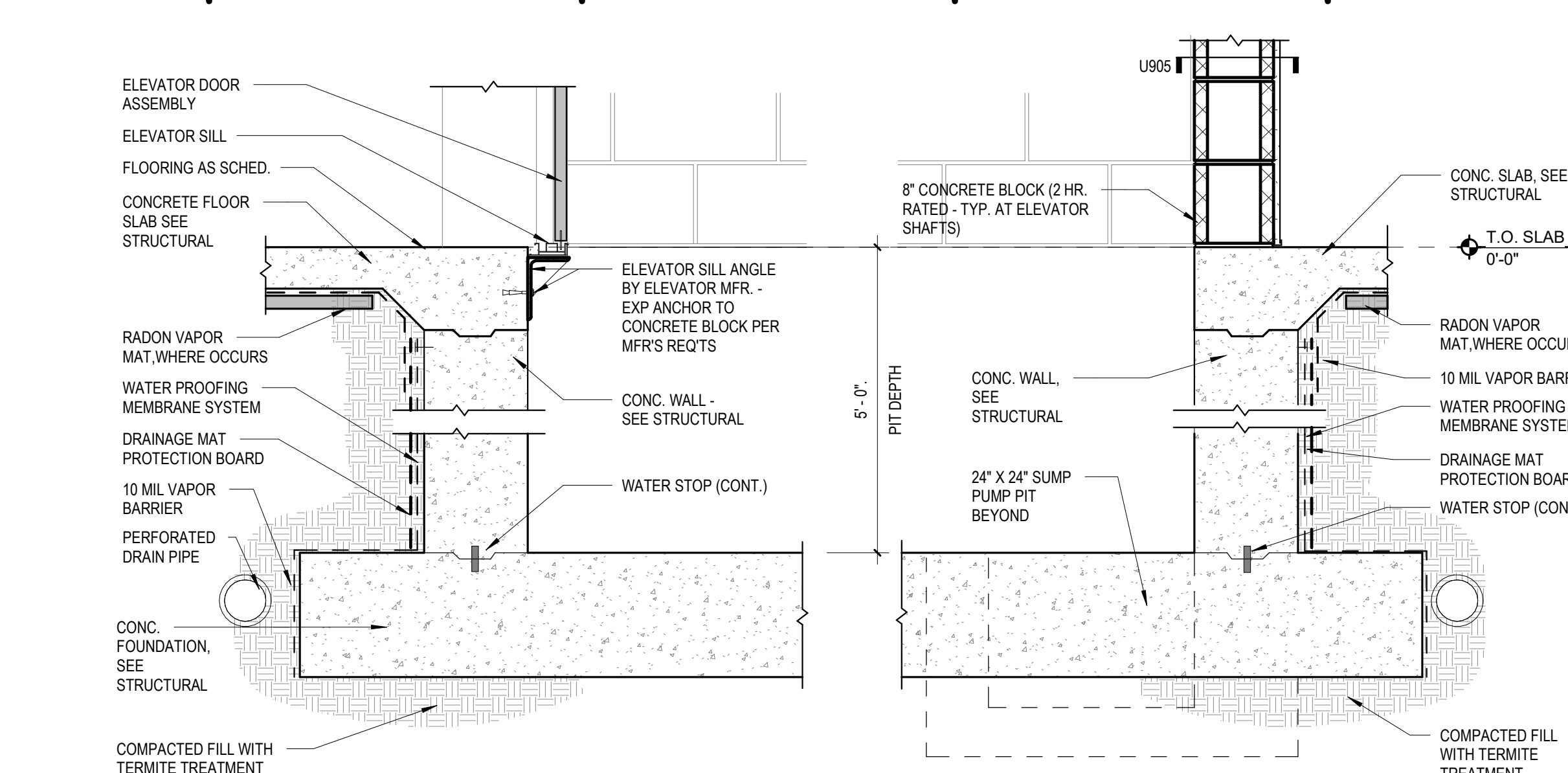
D5 PIT LADDER DETAIL
3/4" = 1'-0"



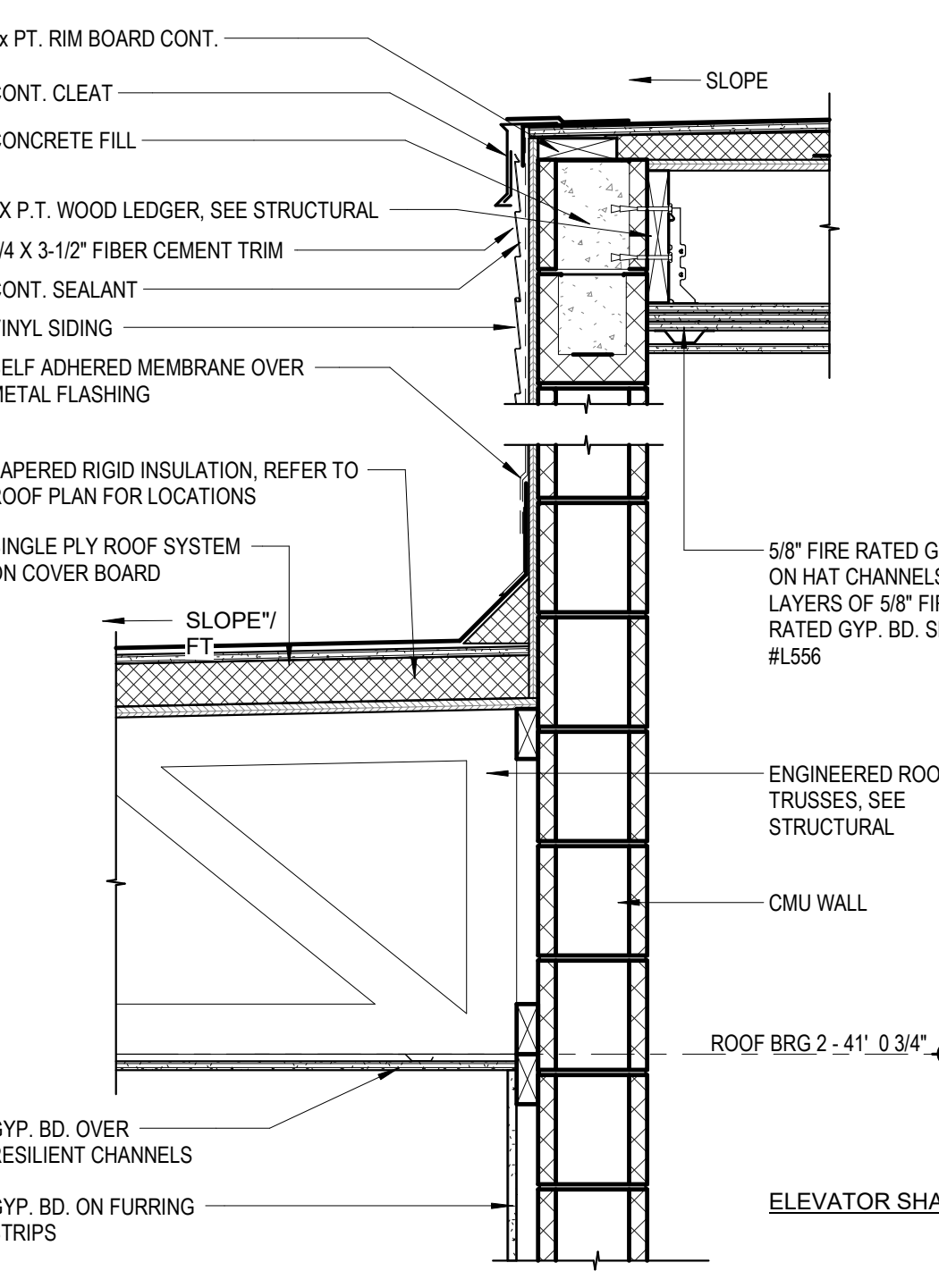
H5 TYPICAL ELEVATOR PLAN
3/8" = 1'-0"



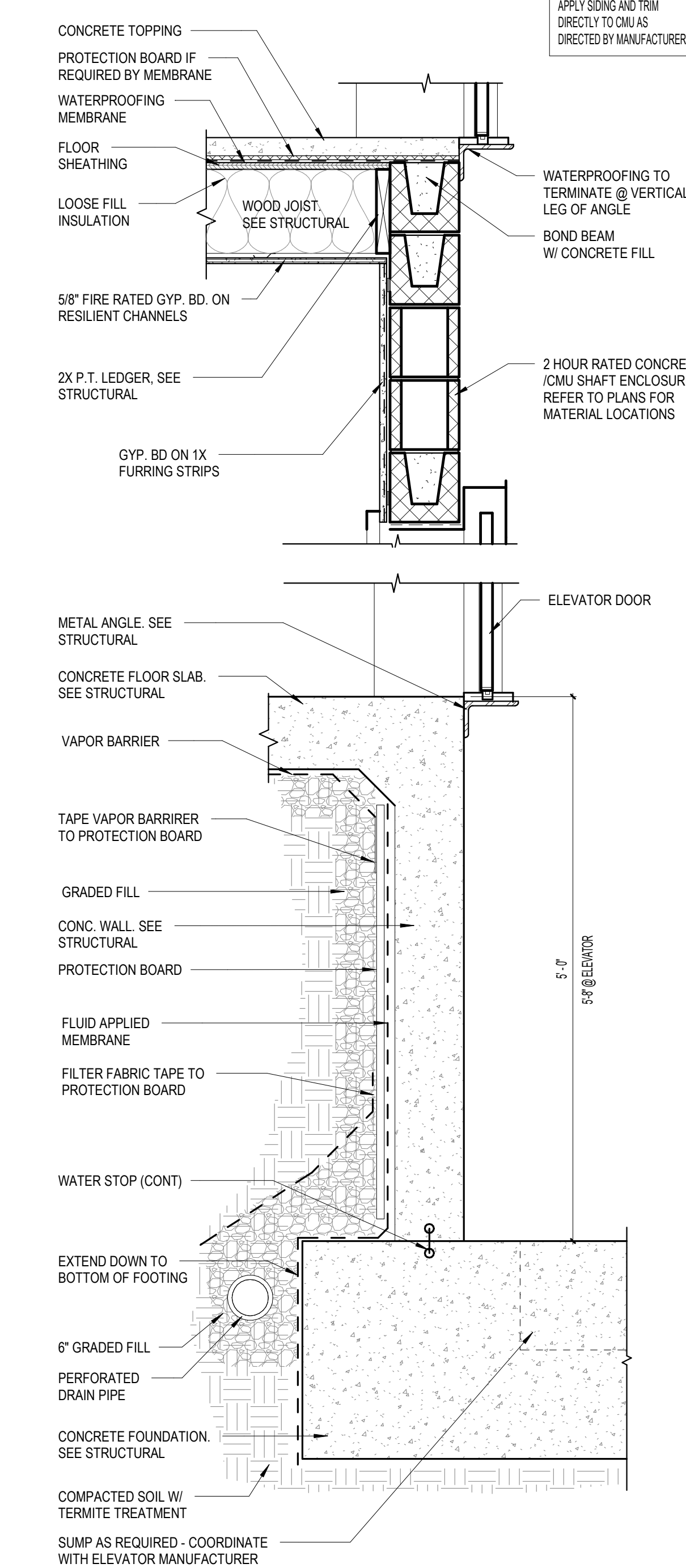
K5 ELEVATOR @ TYP. LVL.
1" = 1'-0"



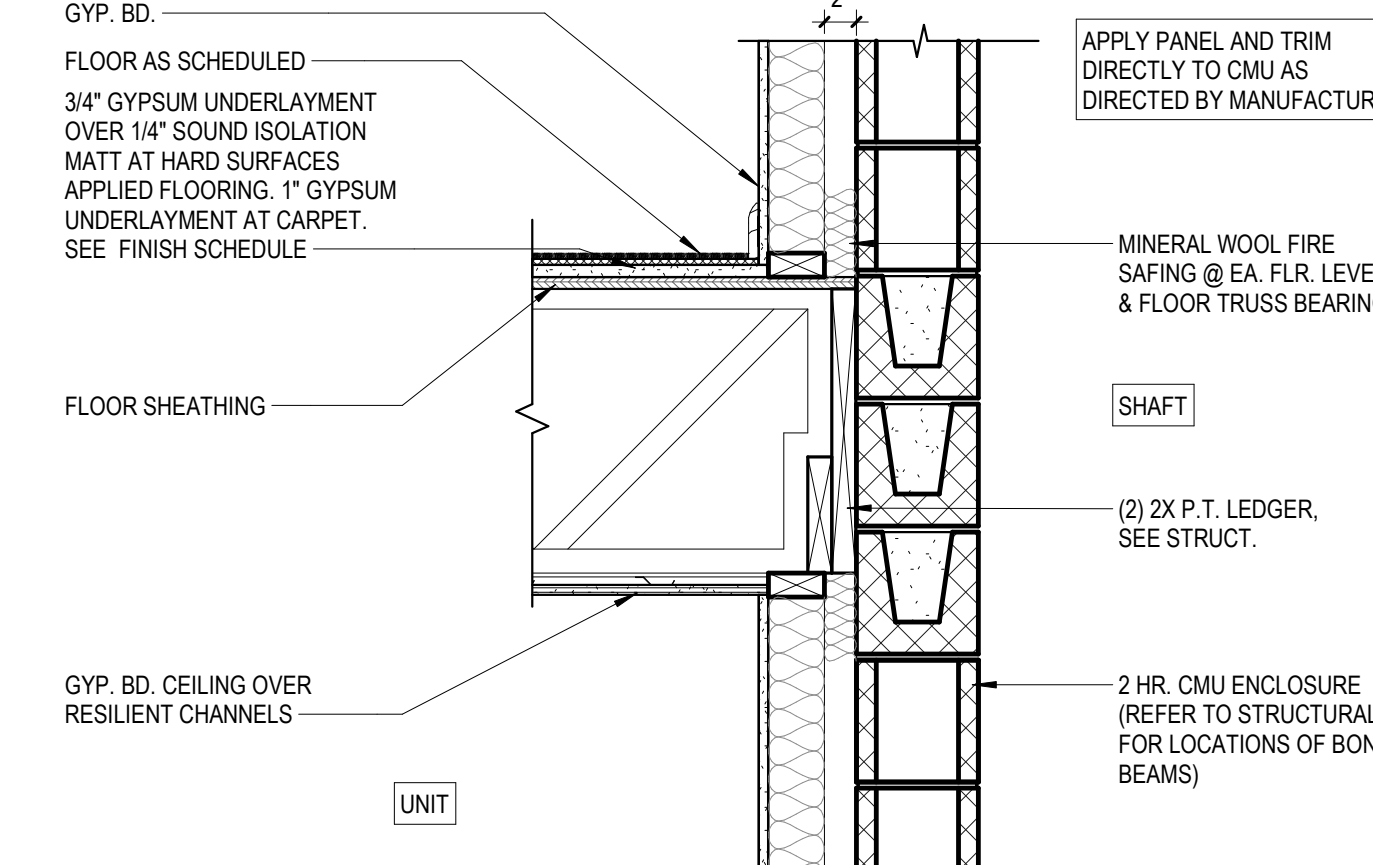
D7 SECTION THROUGH ELEVATOR PIT
1" = 1'-0"



F7 ELEVATOR ROOF DETAIL - CMU
1" = 1'-0"



H10 ELEVATOR WALL DETAIL
1" = 1'-0"



K7 ELEVATOR @ TYP. LVL.
1" = 1'-0"

ISSUE HISTORY		
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1	04/15/2022	PERMIT SUBMITTAL

REVISION HISTORY		
No.	Date	Description

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MICHAEL DOVE
8234

THE ROBERT
MADISON
MADISON, ALABAMA

ELEVATOR ENLARGED
PLAN, SECTION AND
DETAILS

A3.32

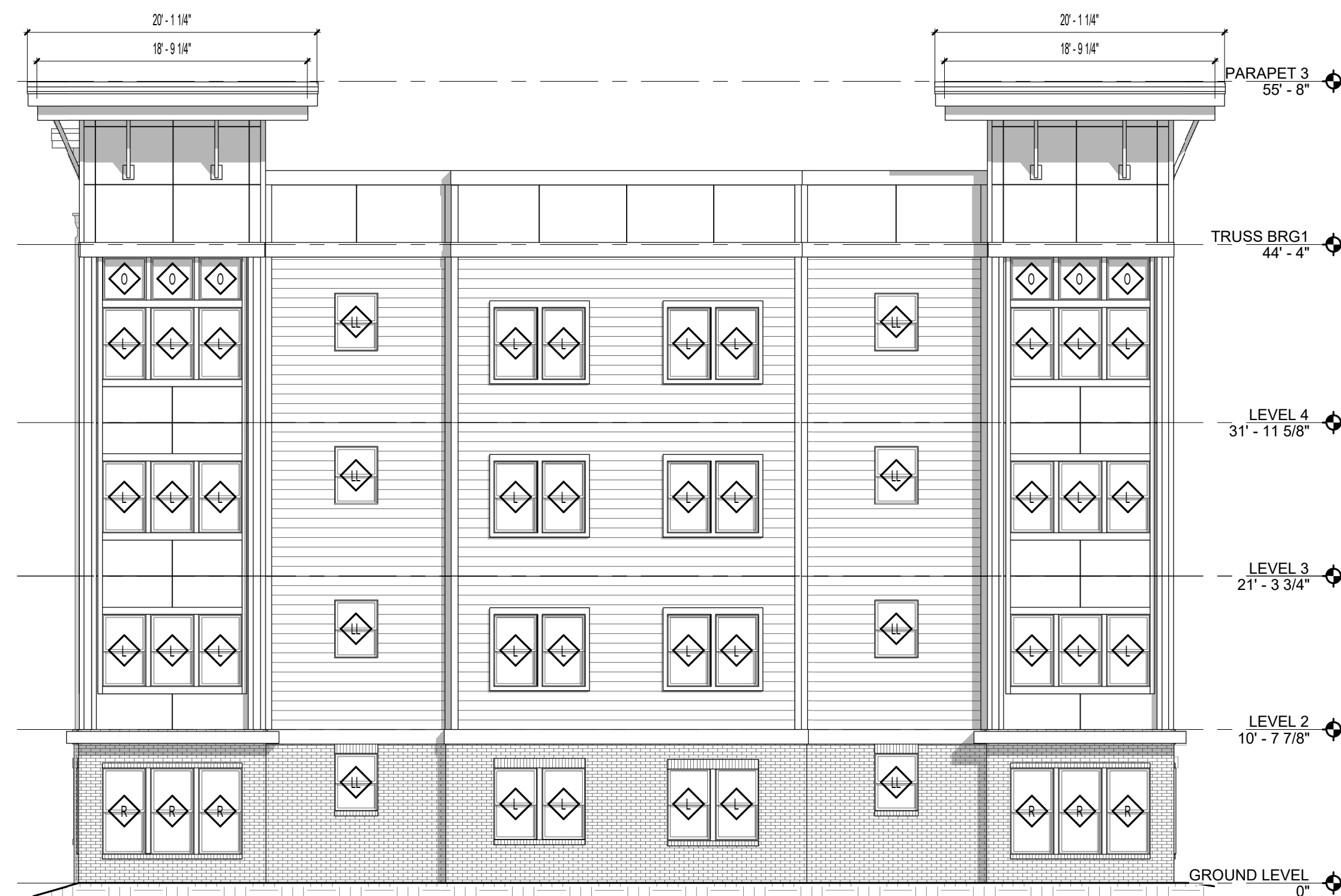


FUGLEBERG KOCH

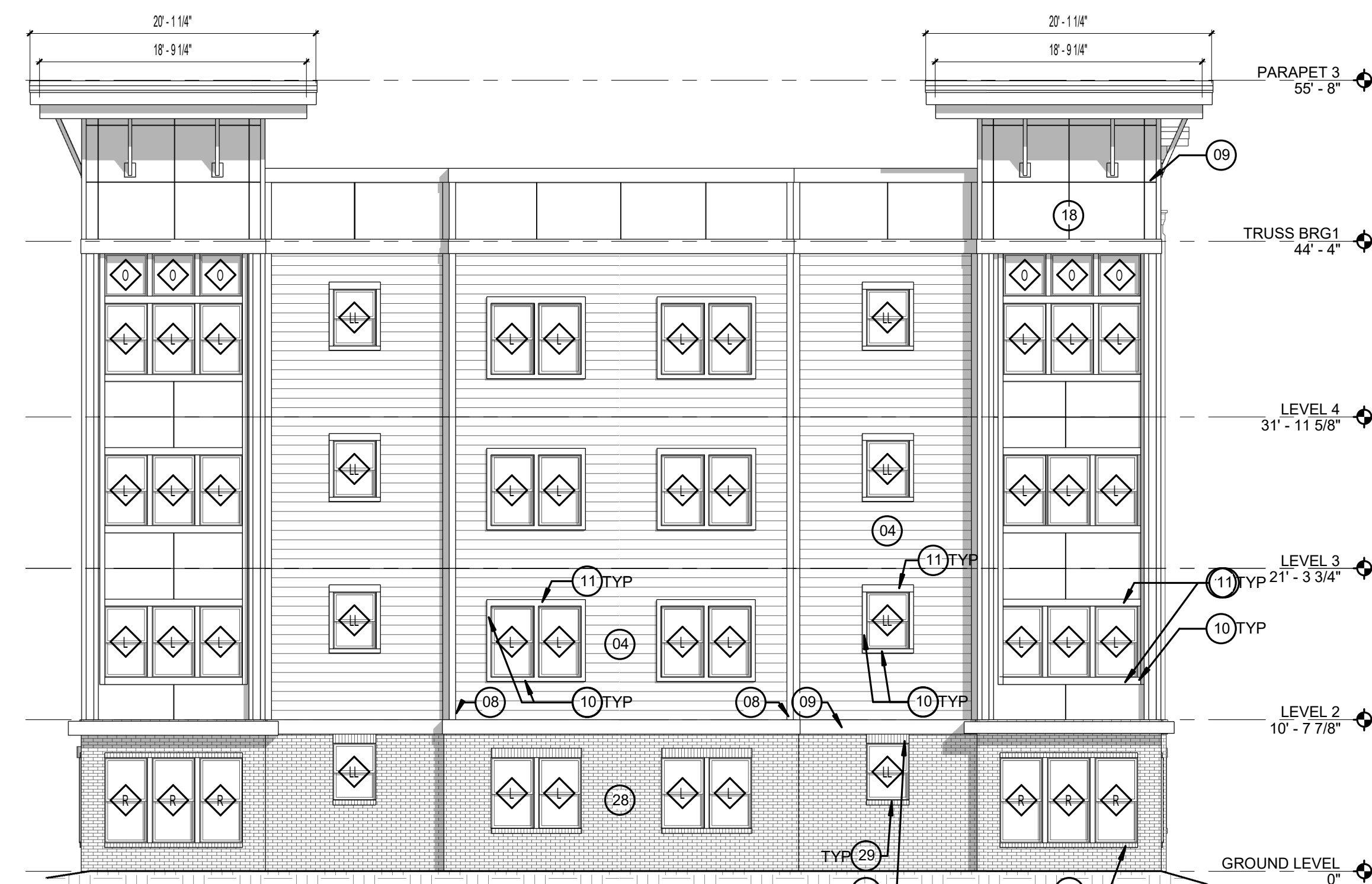
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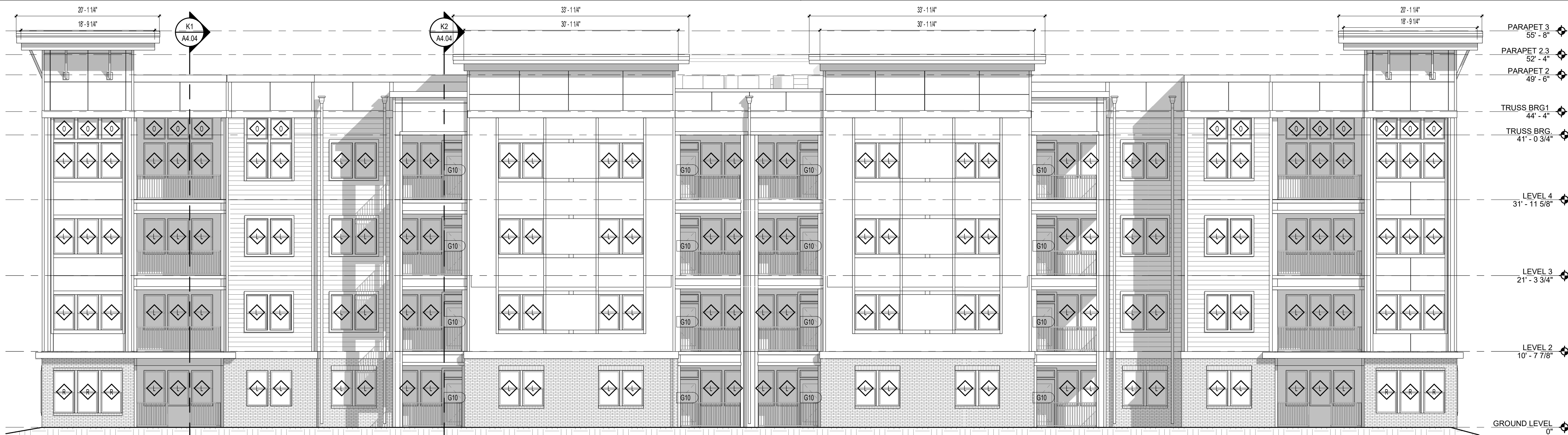
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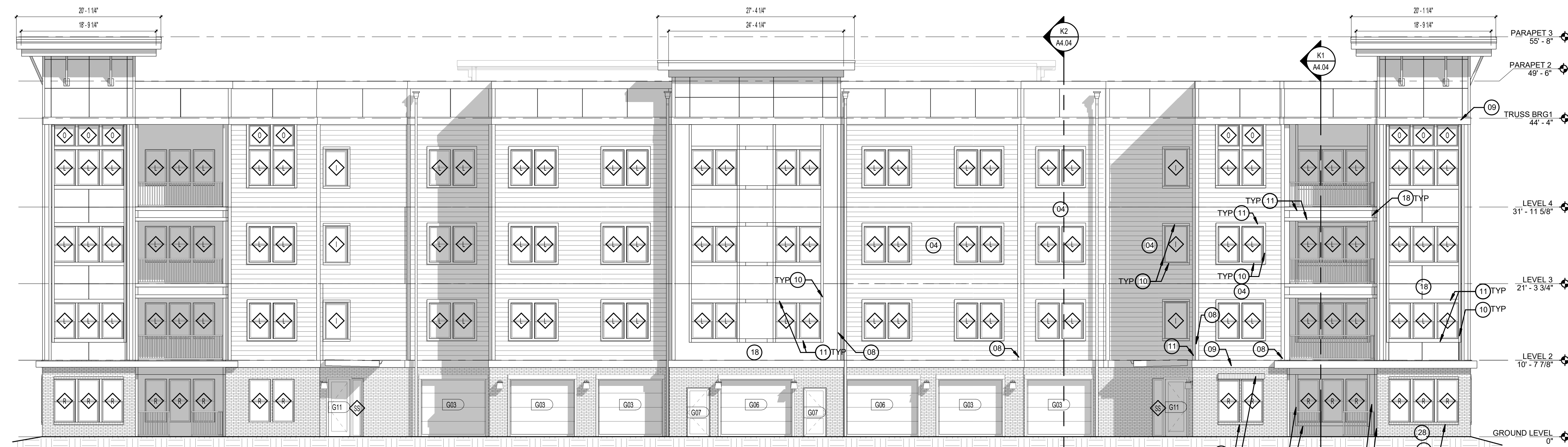
C3 BUILDING TYPE B - LEFT SIDE ELEVATION
1/8" = 1'-0"



C8 BUILDING TYPE B - RIGHT SIDE ELEVATION
1/8" = 1'-0"



F2 BUILDING TYPE B - REAR ELEVATION
1/8" = 1'-0"



K2 BUILDING TYPE B - FRONT ELEVATION
1/8" = 1'-0"

LEGEND:

- 01 ASPHALT SHINGLES
- 02 DECORATIVE LOUVER - 3'-0" X 12'-0"
- 03 NOT USED
- 04 FIBER CEMENT SIDING 8" EXPOSURE
- 05 NOT USED
- 06 NOT USED
- 07 NOT USED
- 08 5/4 x 5-1/2" FIBER CEMENT CORNER TRIM
- 09 5/4 x 11-1/4" FIBER CEMENT TRIM
- 10 5/4 x 3-1/2" FIBER CEMENT TRIM
- 11 5/4 x 5-1/2" FIBER CEMENT TRIM
- 12 CONDENSING UNIT - SEE MECHANICAL
- 13 VINYL TRIM - 5" DOUBLE CHANNEL LINEAL
- 14 2x8 P.T. FASCIA ALUMINUM WRAPPED
- 15 NOT USED
- 16 6" PREFINISHED METAL RAIN GUTTER
- 17 DOWNSPOUT
- 18 FIBER CEMENT PANEL
- 19 METER CENTER - SEE MECH. FOR LOCATION
- 20 LIGHTED BUILDING NUMBER SIGN
- 21 BUILDING/ APARTMENT NUMBER SIGN
- 22 NOT USED
- 23 EXHAUST VENTS
- 24 APARTMENT NUMBER SIGN
- 25 EXTERIOR WALL LIGHT - SEE ELECTRICAL
- 26 METAL RAILING SYSTEM
- 27 LOUVER - 4'-0" X 4'-0"
- 28 BRICK
- 29 BRICK SILL
- 30 BRICK SOLDIER COURSE
- 31 NOT USED
- 32 NOT USED

ISSUE HISTORY

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No.	Date	Description


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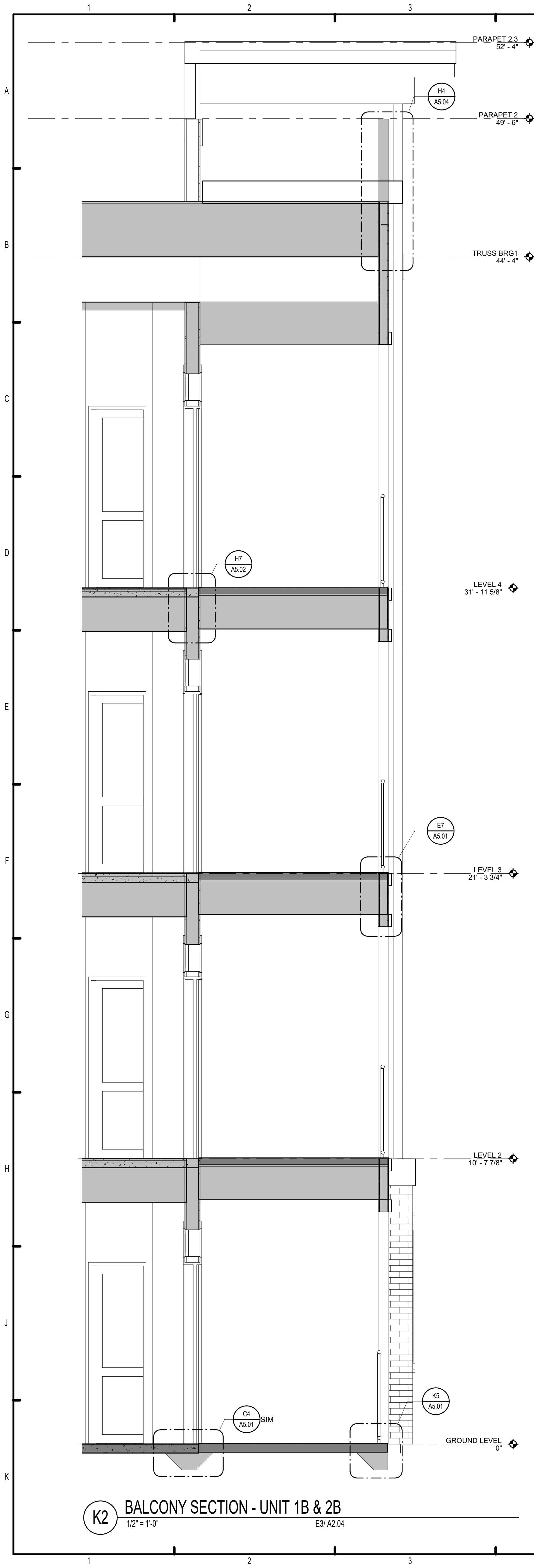


MICHAEL ODYE
8234

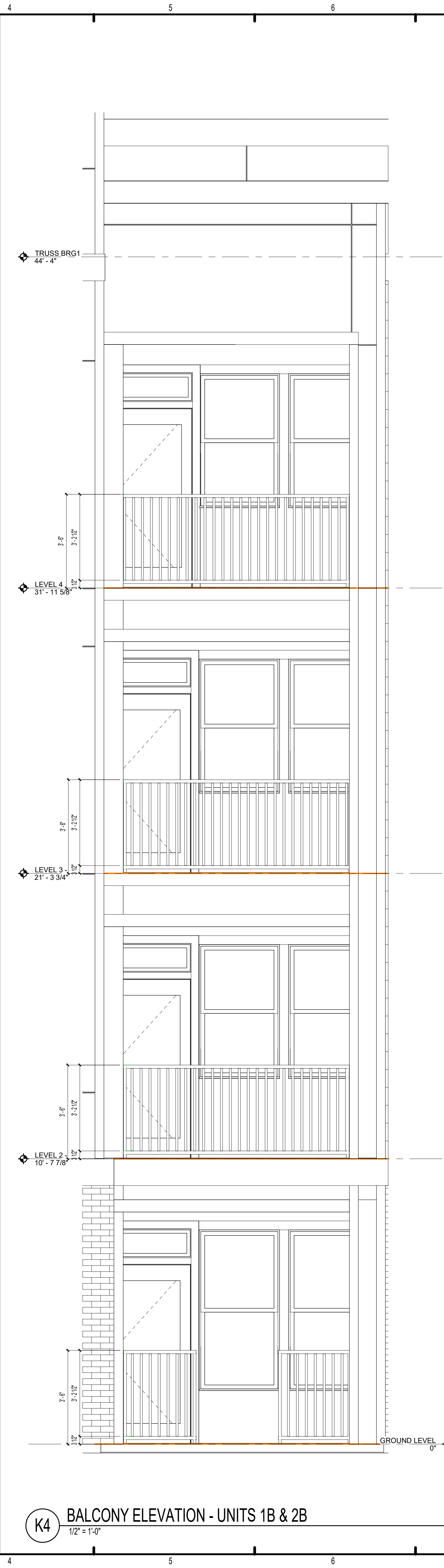
**THE ROBERT
MADISON**
MADISON, ALABAMA

**BUILDING TYPE B -
EXTERIOR ELEVATIONS**

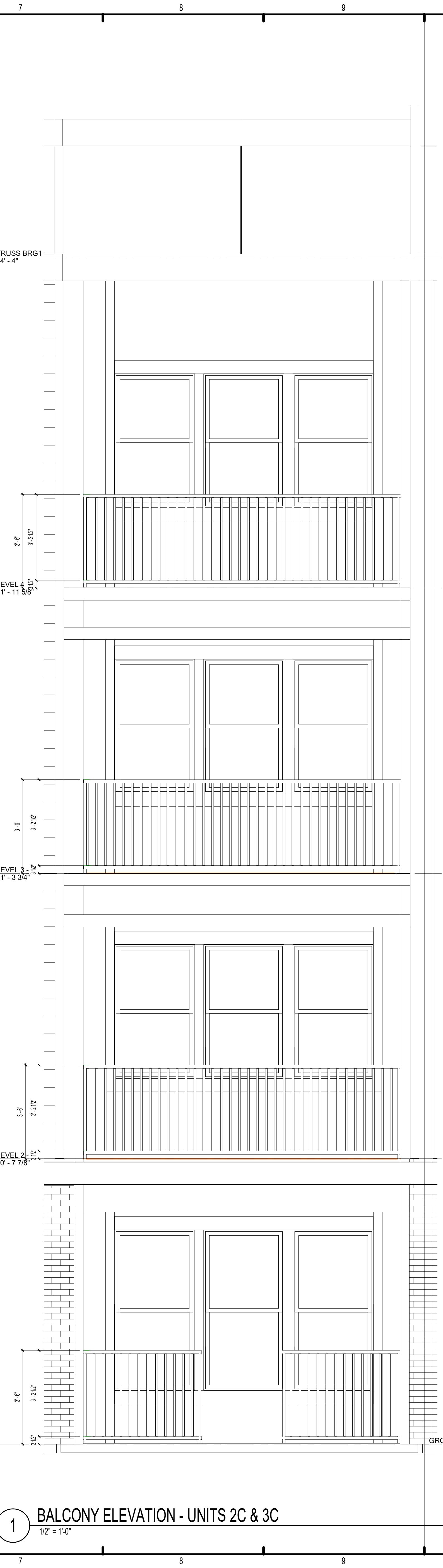
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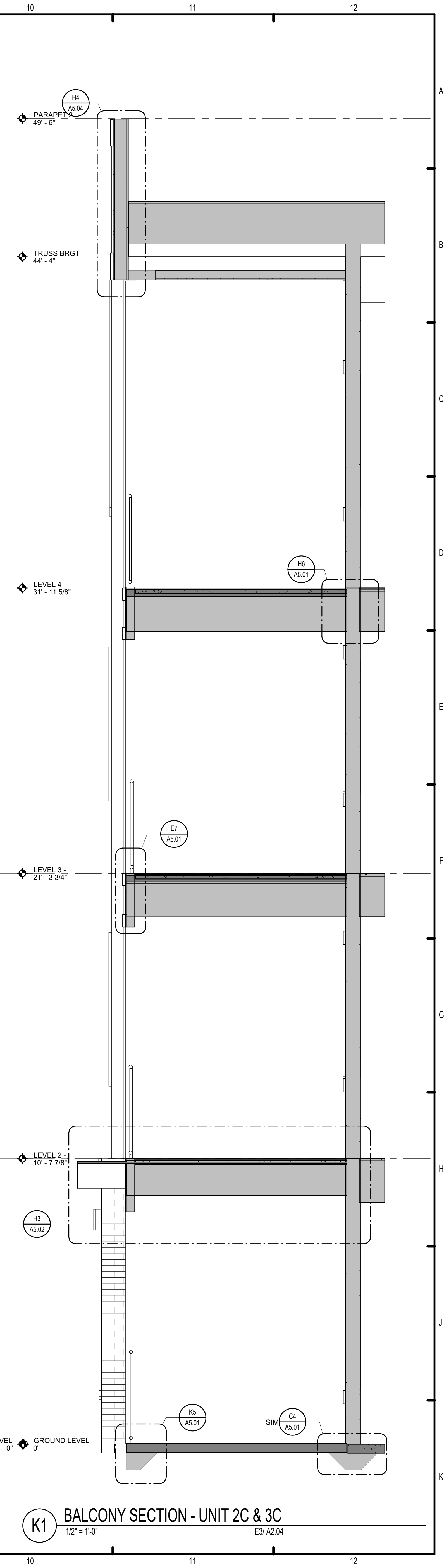
K2 BALCONY SECTION - UNIT 1B & 2B
1/2" = 1'-0"
E3/ A2.04



K4 BALCONY ELEVATION - UNITS 1B & 2B
1/2" = 1'-0"



1 BALCONY ELEVATION - UNITS 2C & 3C
1/2" = 1'-0"



K1 BALCONY SECTION - UNIT 2C & 3C
1/2" = 1'-0"
E3/ A2.04

ISSUE HISTORY		
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CONSULTANT

MICHAEL DOVE
8234

THE ROBERT MADISON	
Drawn	MB
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Approval	MS
Date	04/15/2022
Project #	5722

ENLARGED PATIO/BALCONY ELEVATIONS

A4.04

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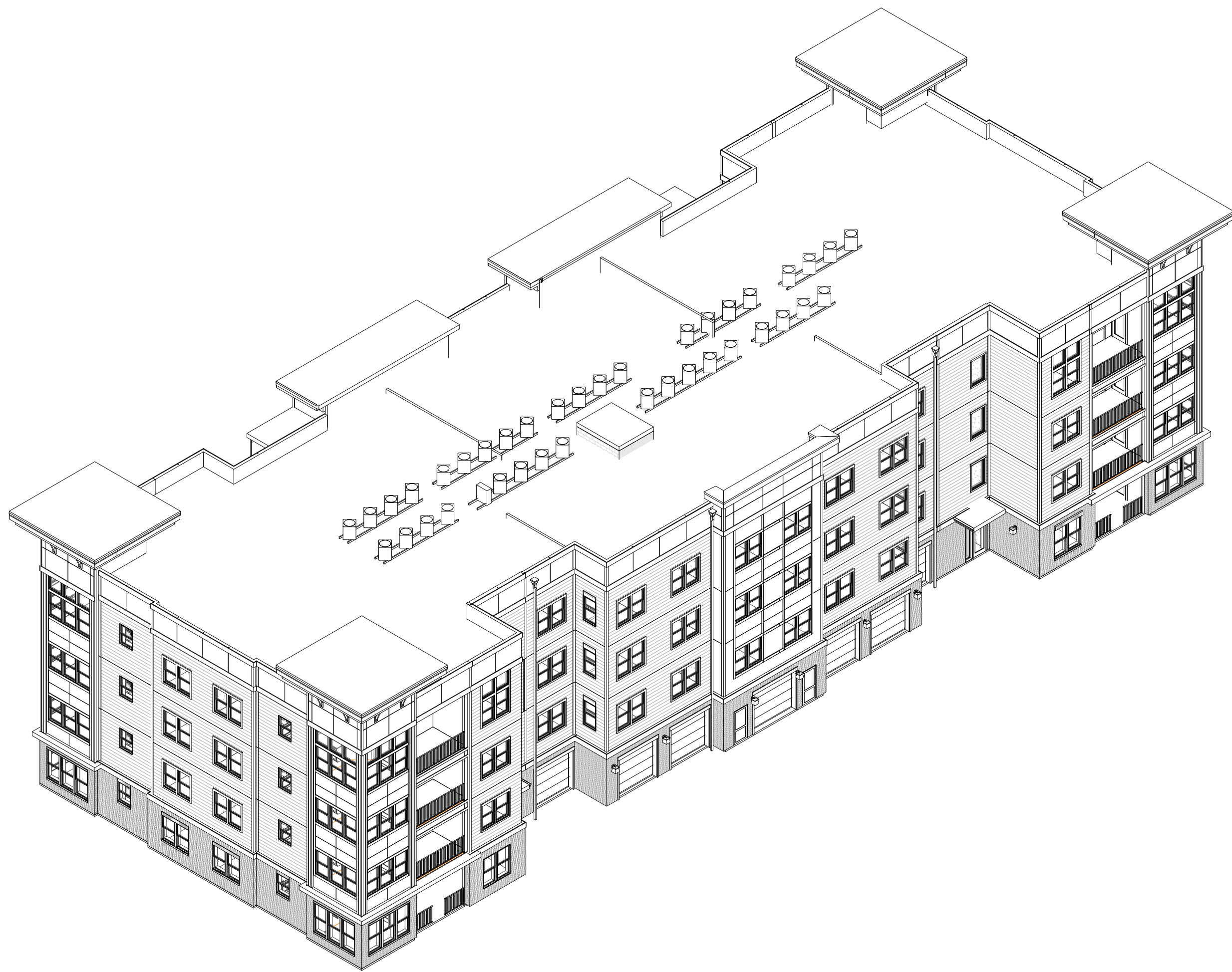
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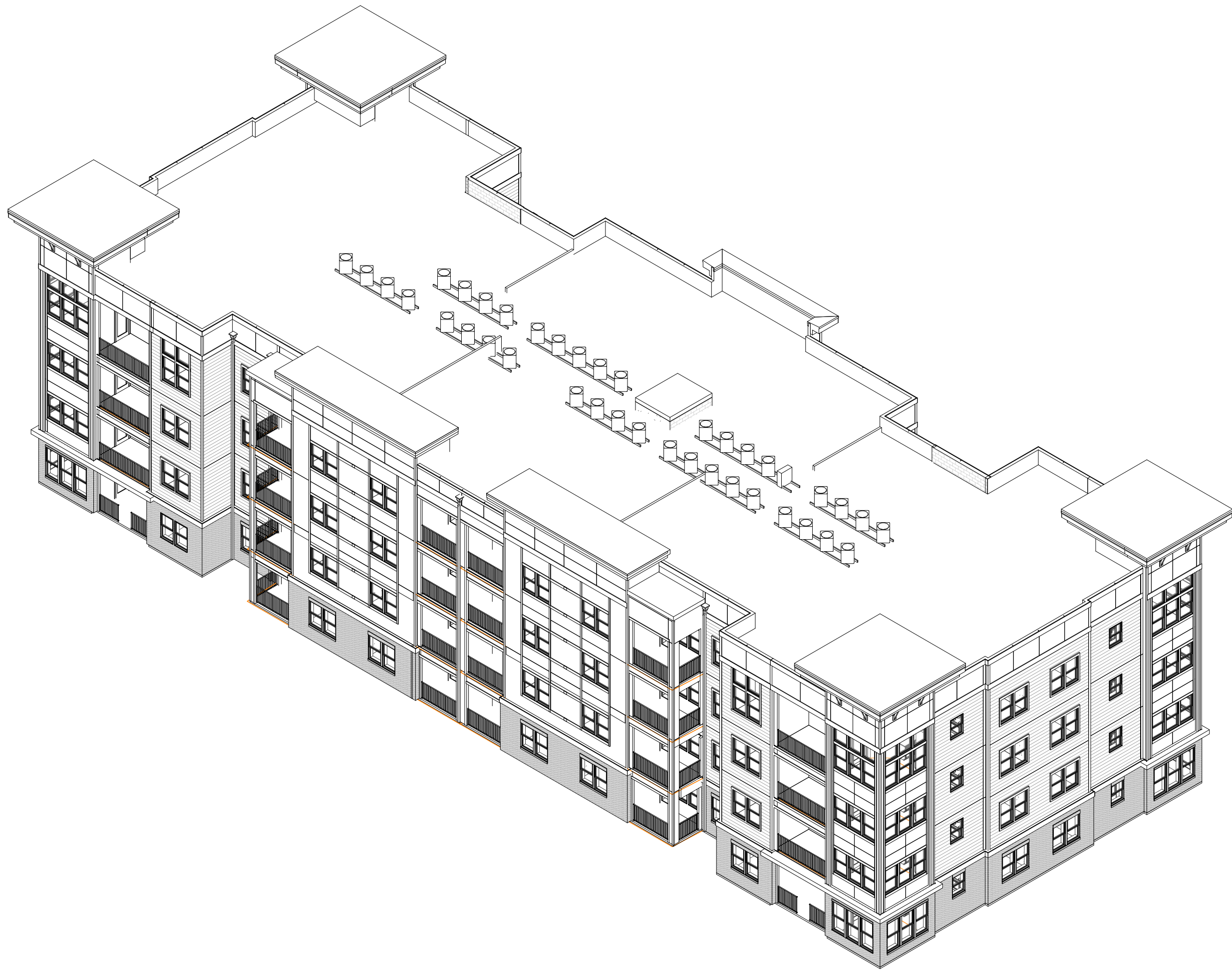
E1 BUILDING TYPE B - AXONOMETRIC 1



E8 BUILDING TYPE B - AXONOMETRIC 2



K1 BUILDING TYPE B - AXONOMETRIC 3



K8 BUILDING TYPE B - AXONOMETRIC 4

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6234

THE ROBERT MADISON

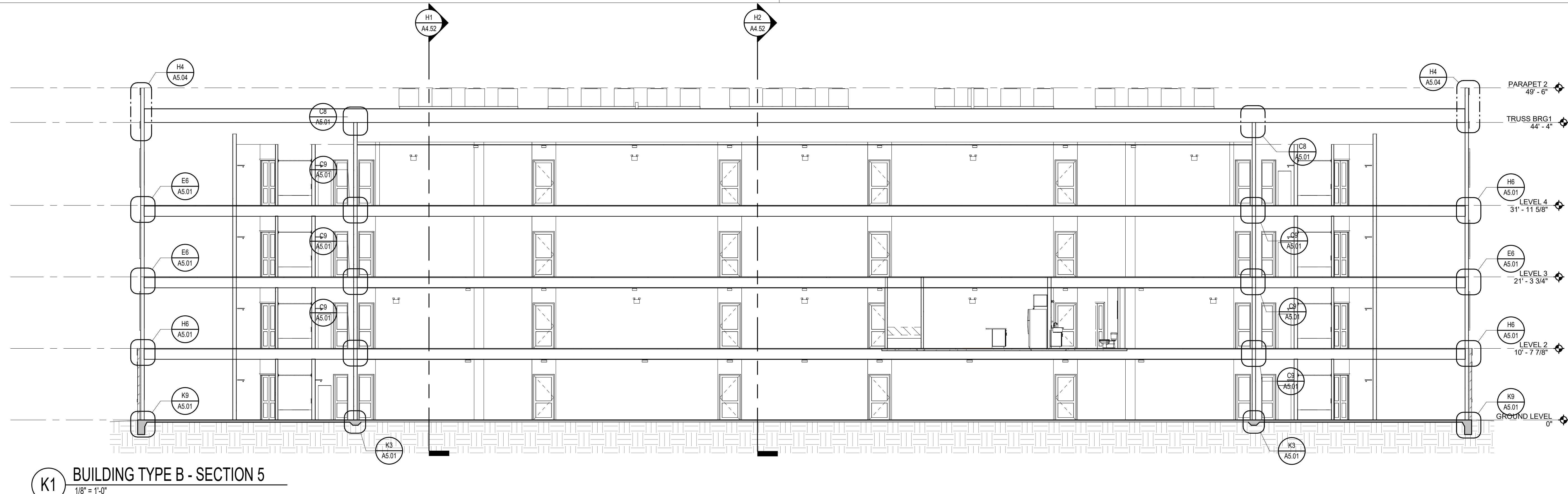
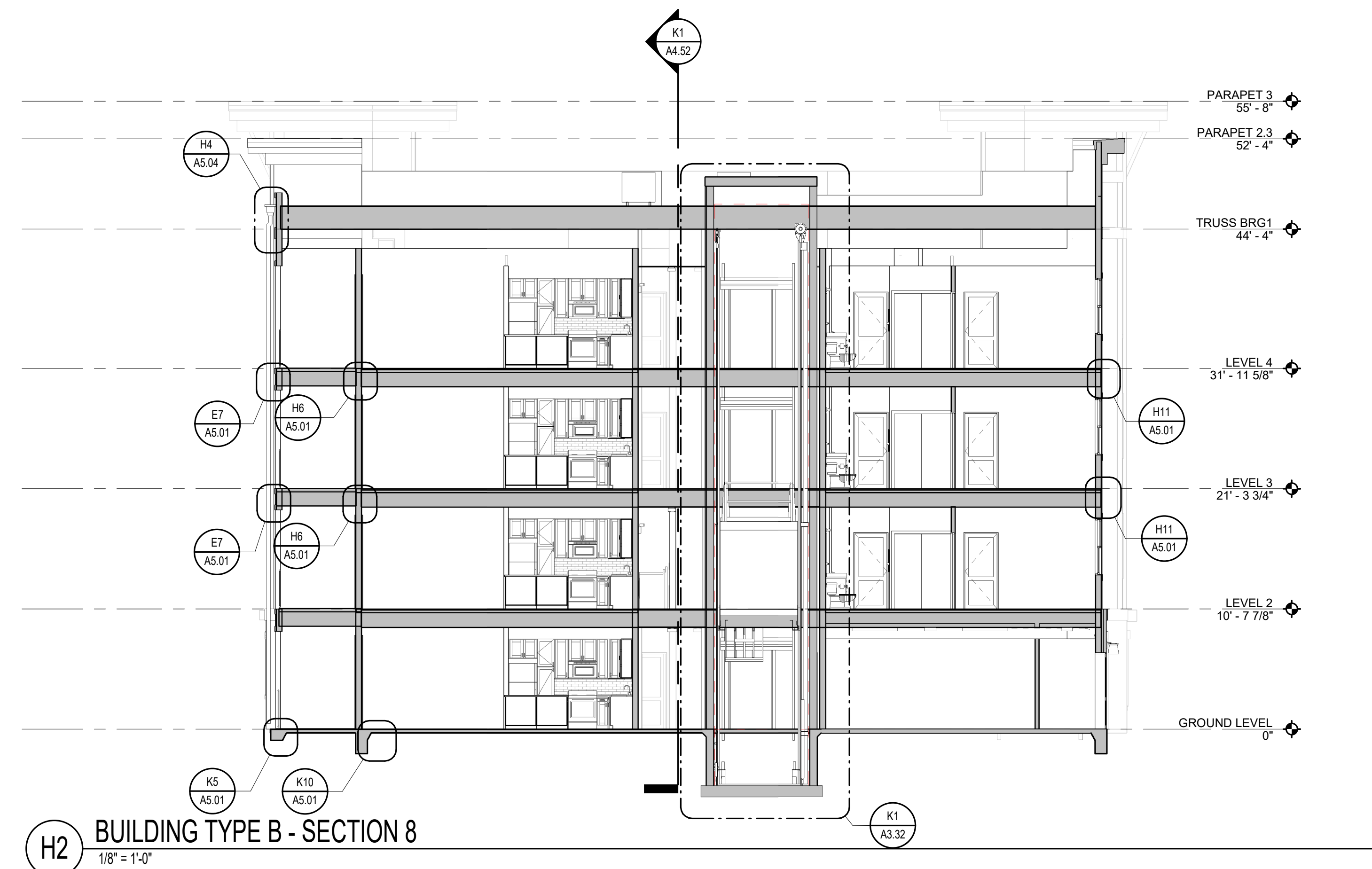
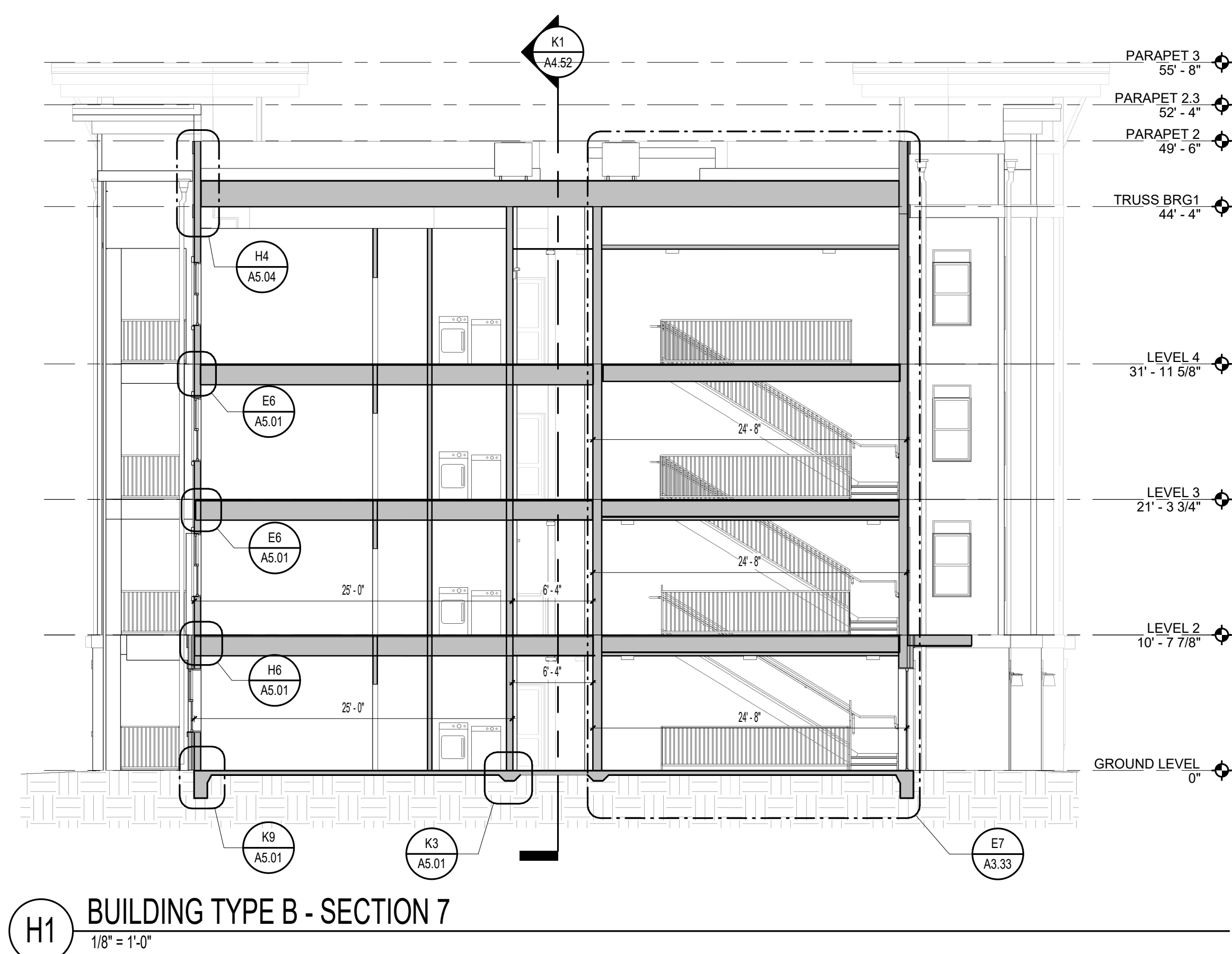
MADISON, ALABAMA

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Approval	MS
Date	04/15/2022
Project #	572

BUILDING TYPE B - AXONOMETRICS

A4.11

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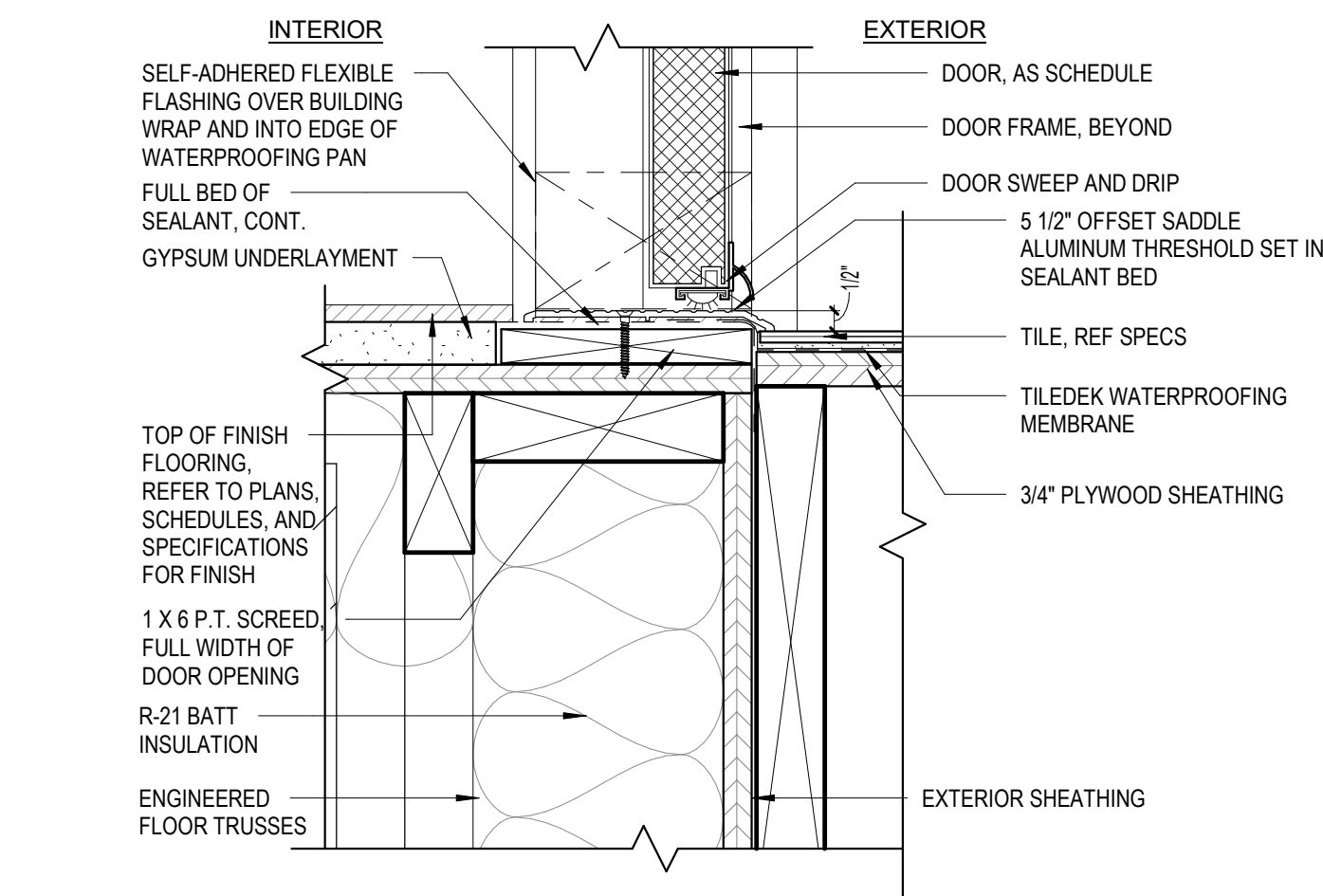
MICHAEL GOVE
8234

THE ROBERT
MADISON
MADISON, ALABAMA

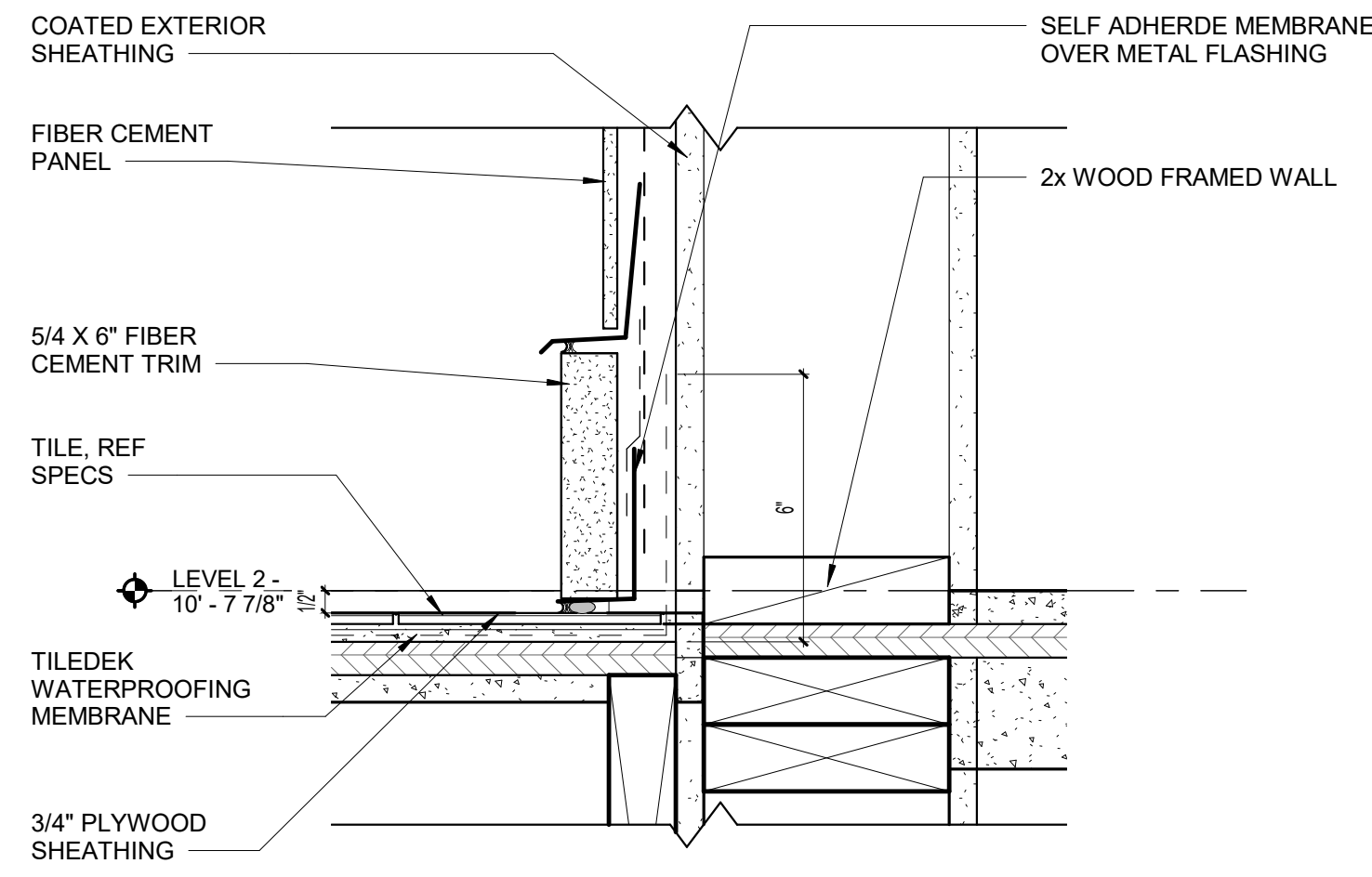
BUILDING TYPE B - BUILDING SECTIONS

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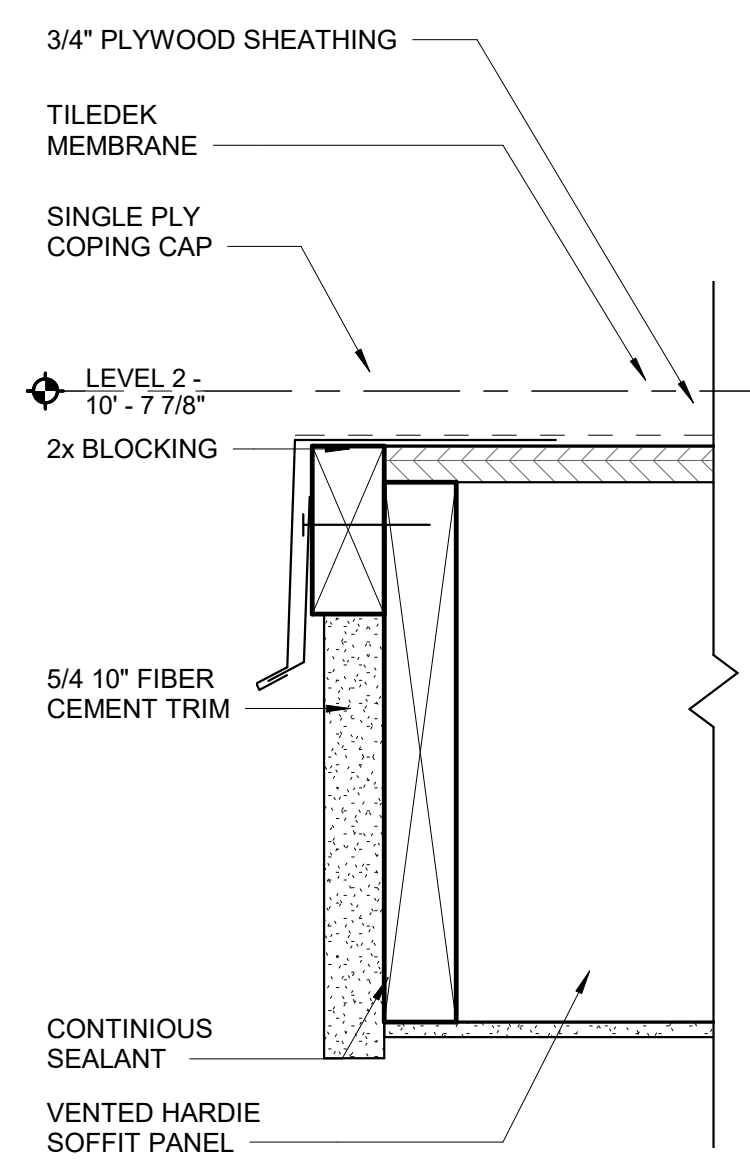
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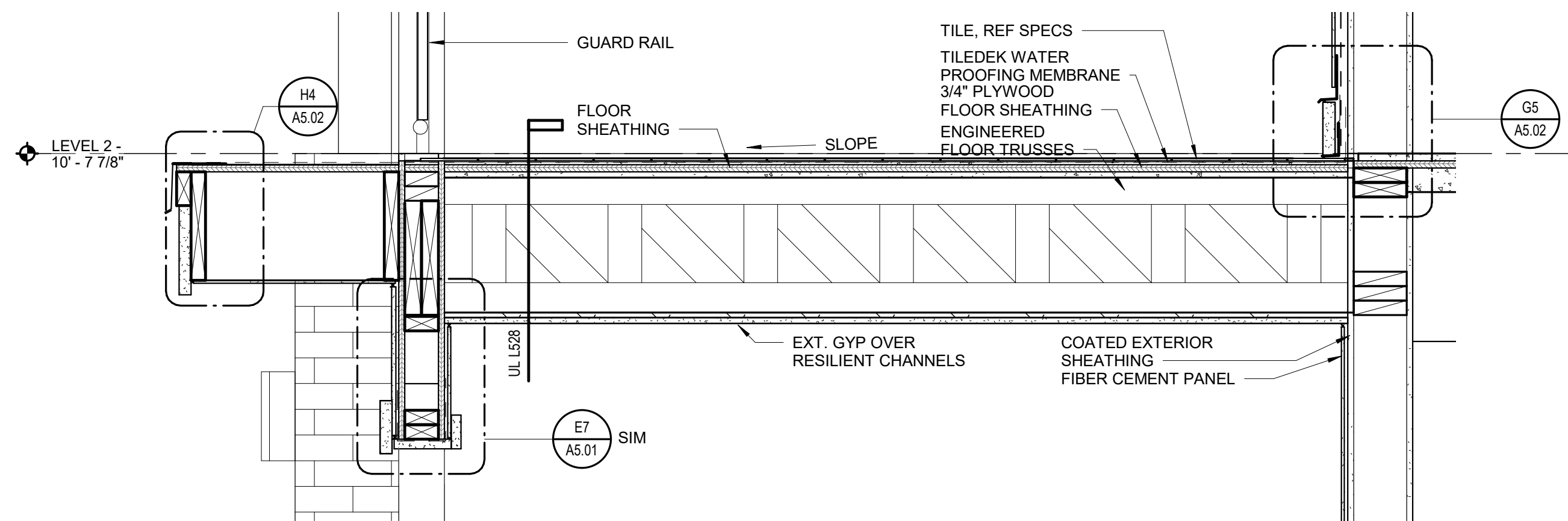
G4 BALCONY 2C & 3C DOOR THRESHOLD DETAIL
3" = 1'-0"



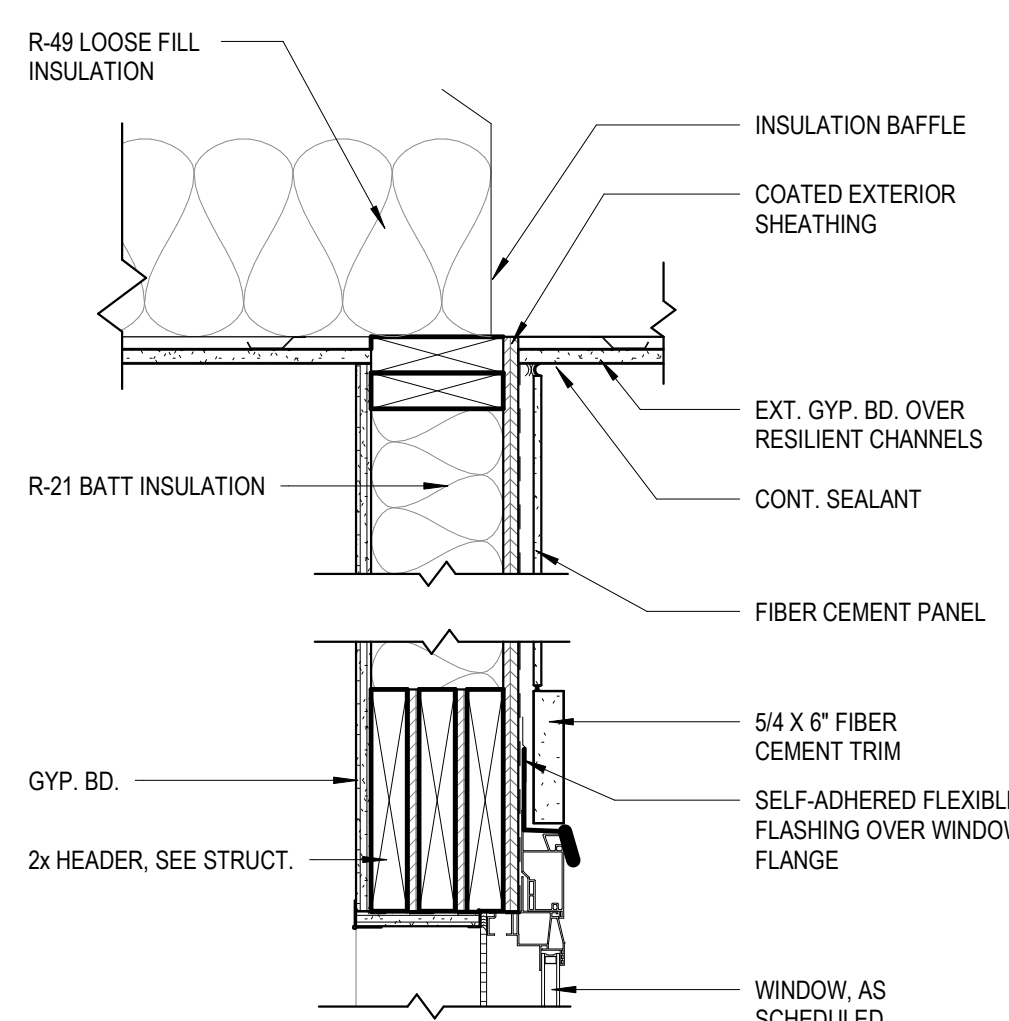
G5 BALCONY SECTION AT WALL
3" = 1'-0"



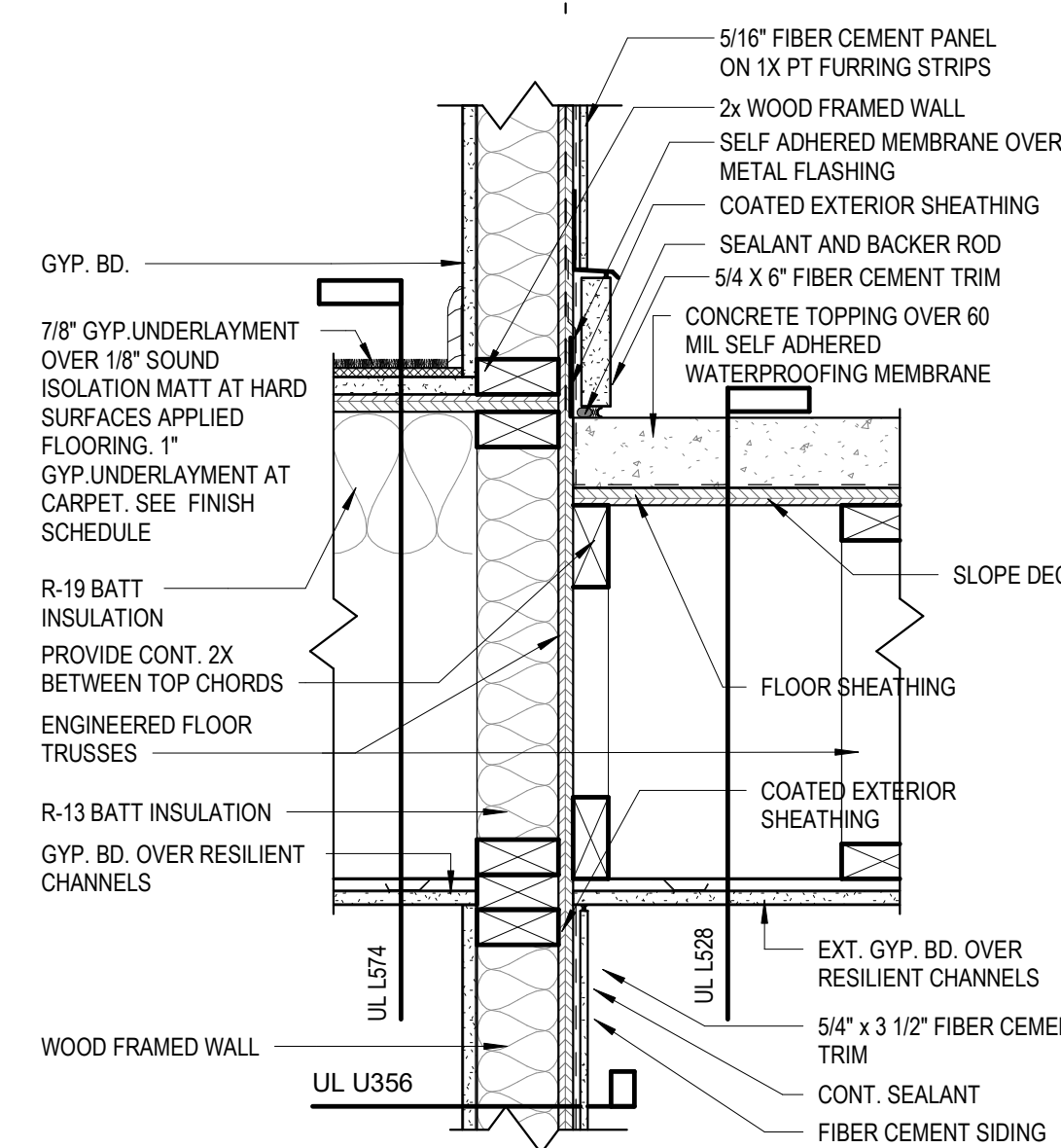
H4 AWNING DETAIL
3" = 1'-0"



H3 BALCONY SECTION - UNIT 2C & 3C
1" = 1'-0"



H5 BALCONY DETAIL AT ROOF LEVEL
1 1/2" = 1'-0"



H7 BALCONY DETAIL AT UPPER LEVEL
1 1/2" = 1'-0"

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1	04/15/2022	PERMIT SUBMITTAL
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CONSULTANT
STATE OF ALABAMA
8234
4/15/22
REGISTERED ARCHITECT
MICHAEL DOVE
6234

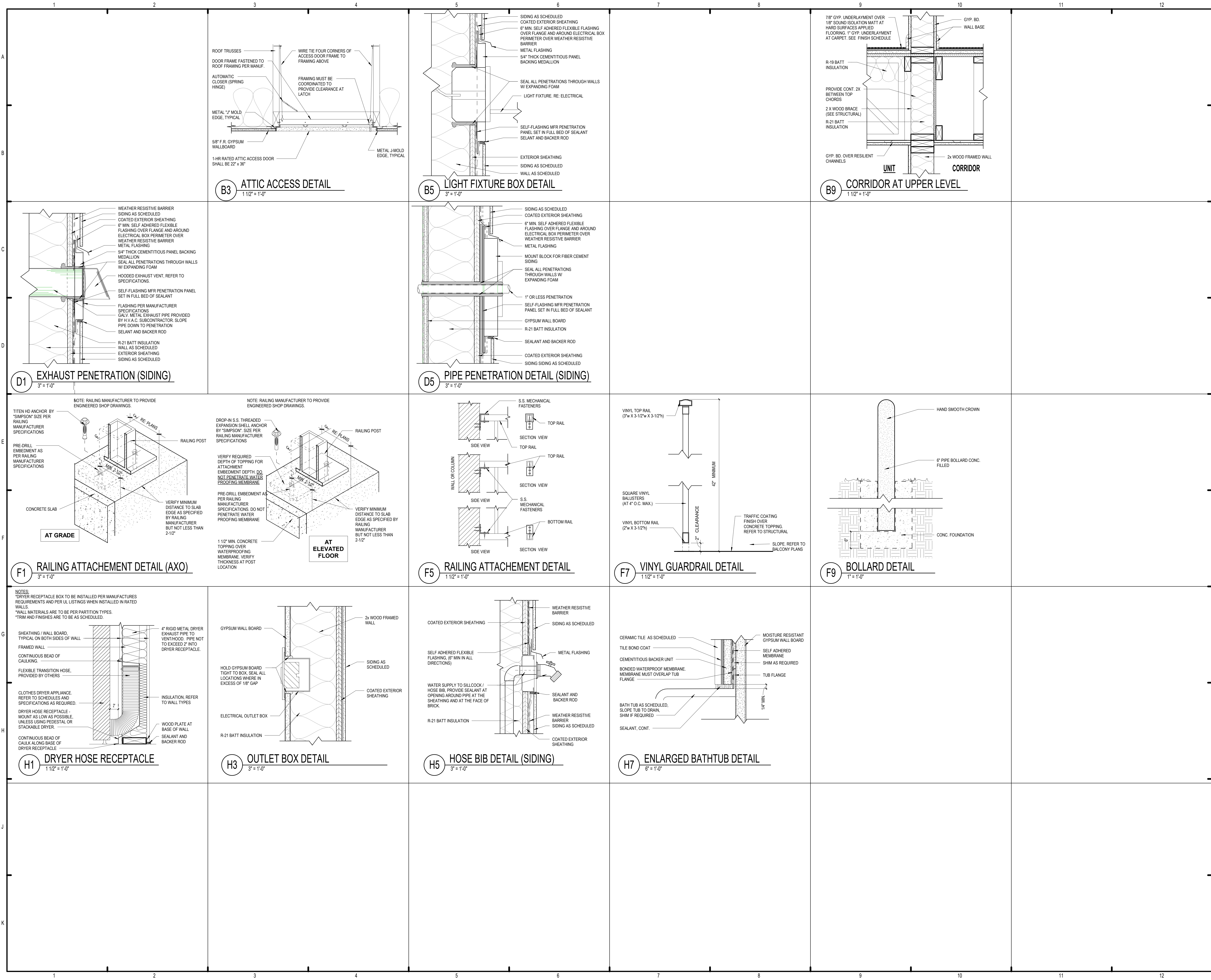
THE ROBERT MADISON
MADISON, ALABAMA

Drawn	MS
Checked	JK
Approval	MS
Date	04/15/2022
Project #	5722

WALL SECTION DETAILS

A5.02

3/5/2022 3:57:39 PM



ISSUE HISTORY		
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PE

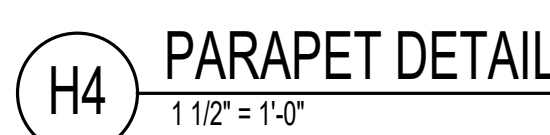
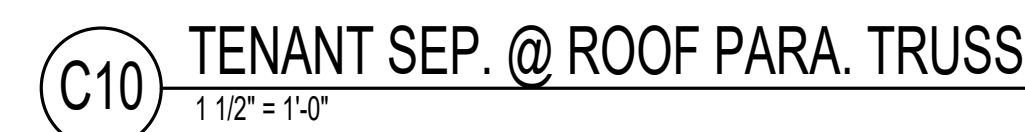
THE ROBERT MADISON

MADISON, ALABAMA

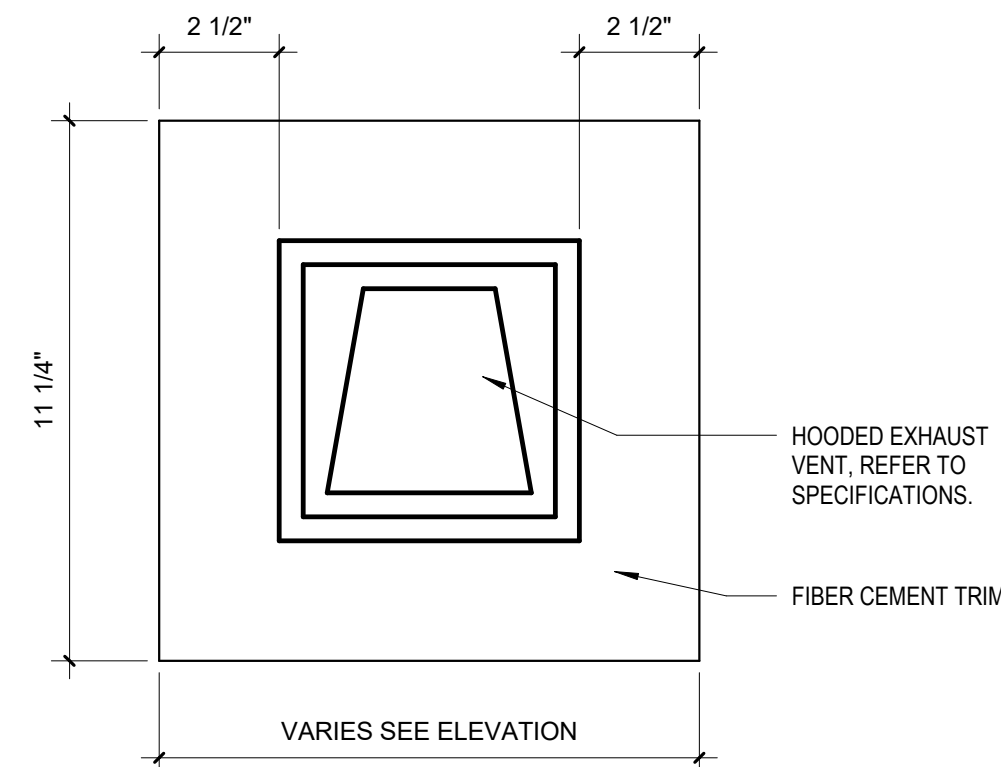
Drawn: MB
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Approval: MS
Date: 04/15/2022
Project #: 5722

WALL SECTION DETAILS

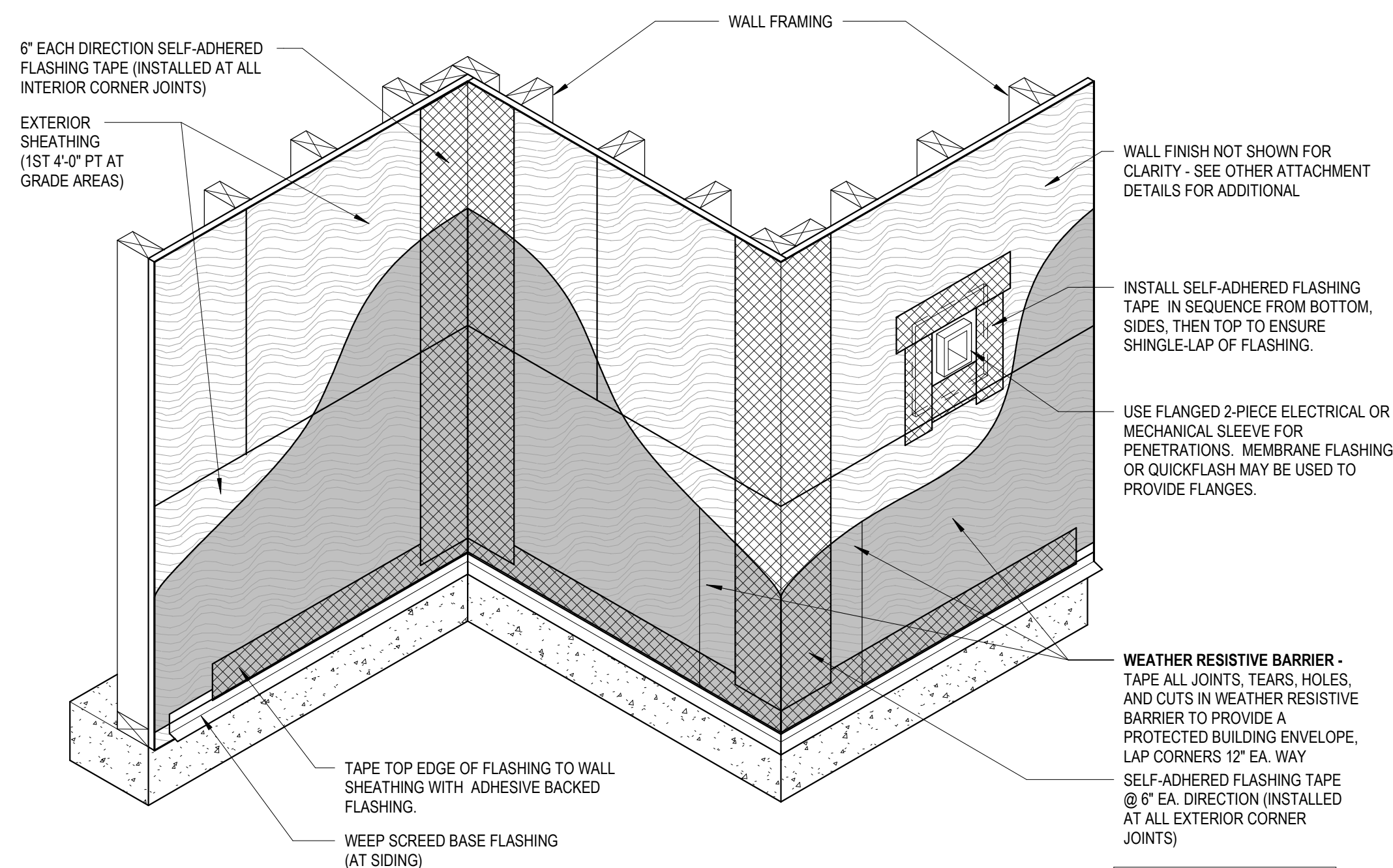
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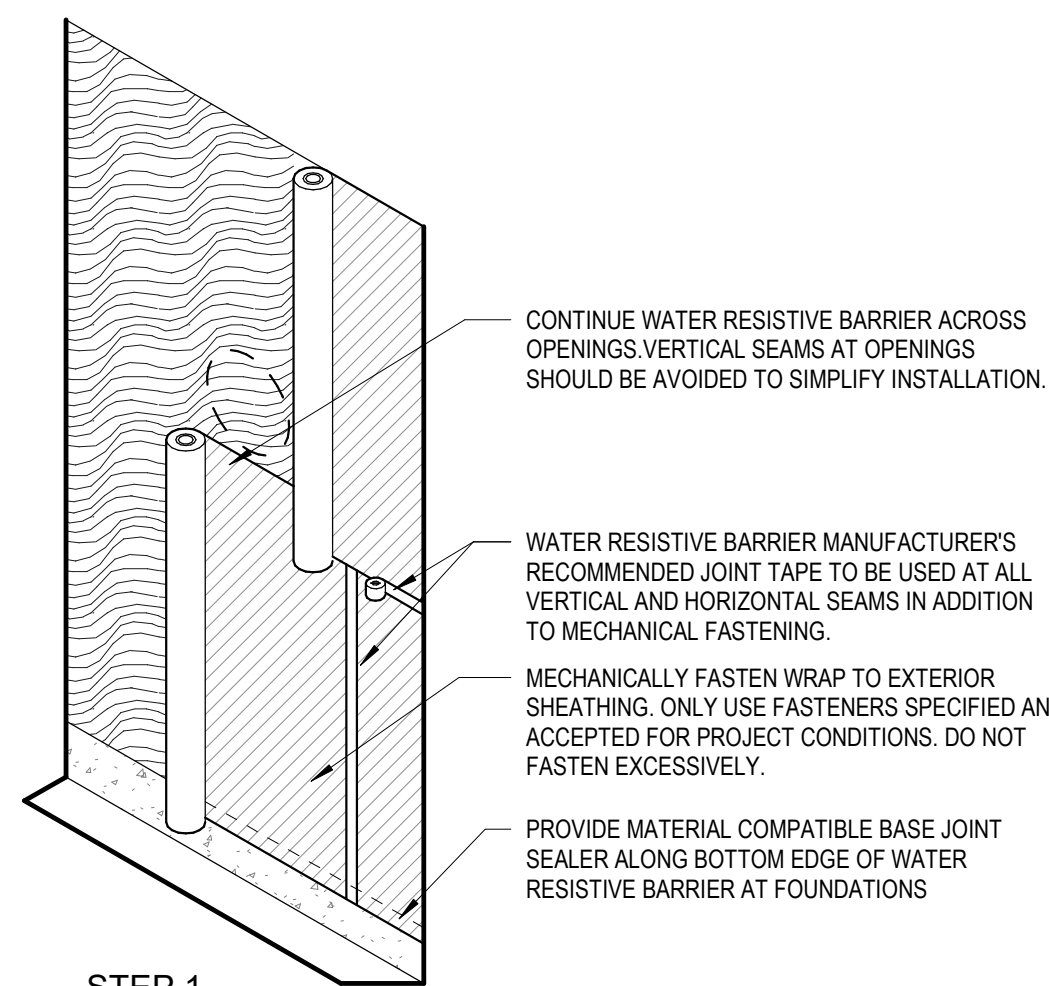
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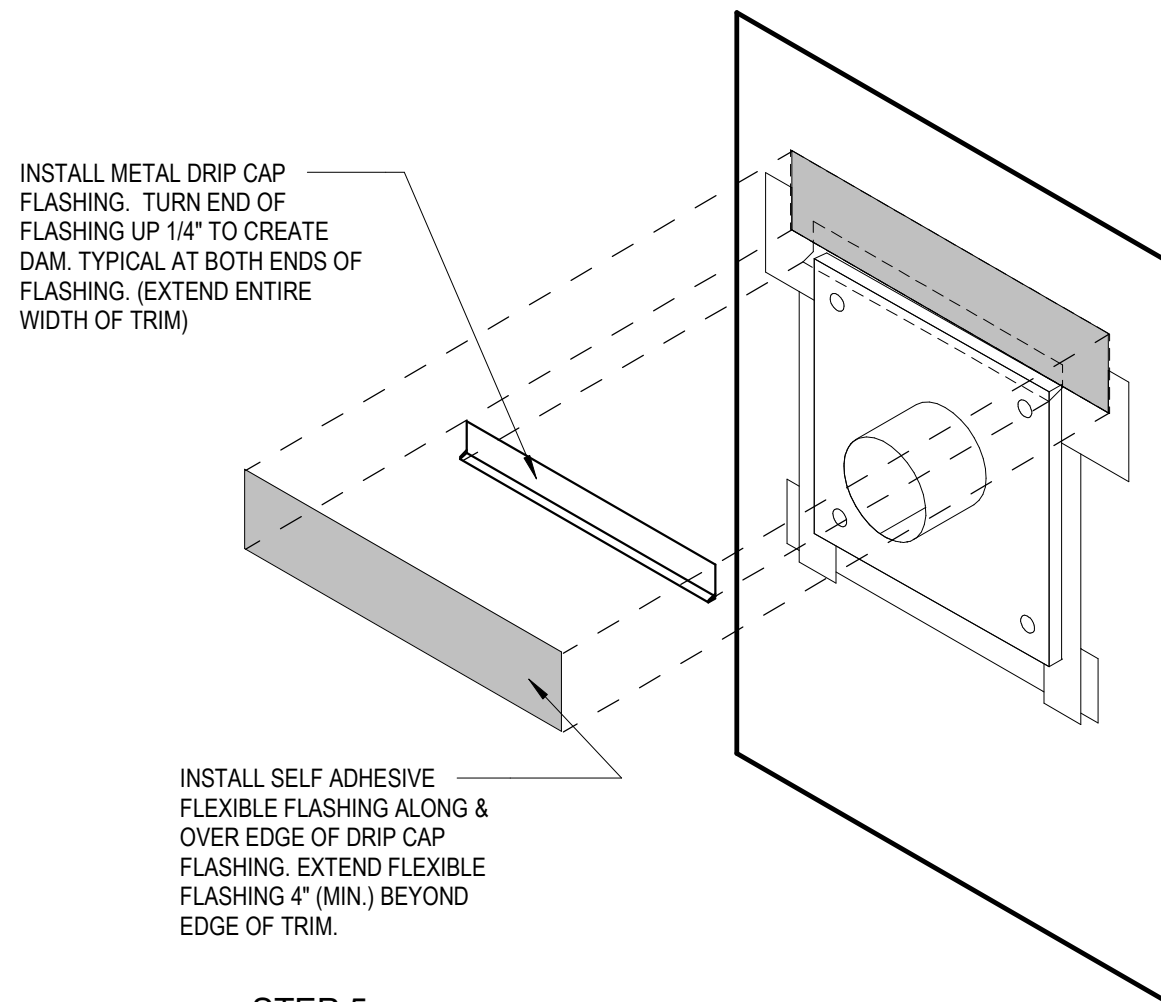
B7 DRYER / EXHAUST PLINTH DETAIL
3" = 1'-0"



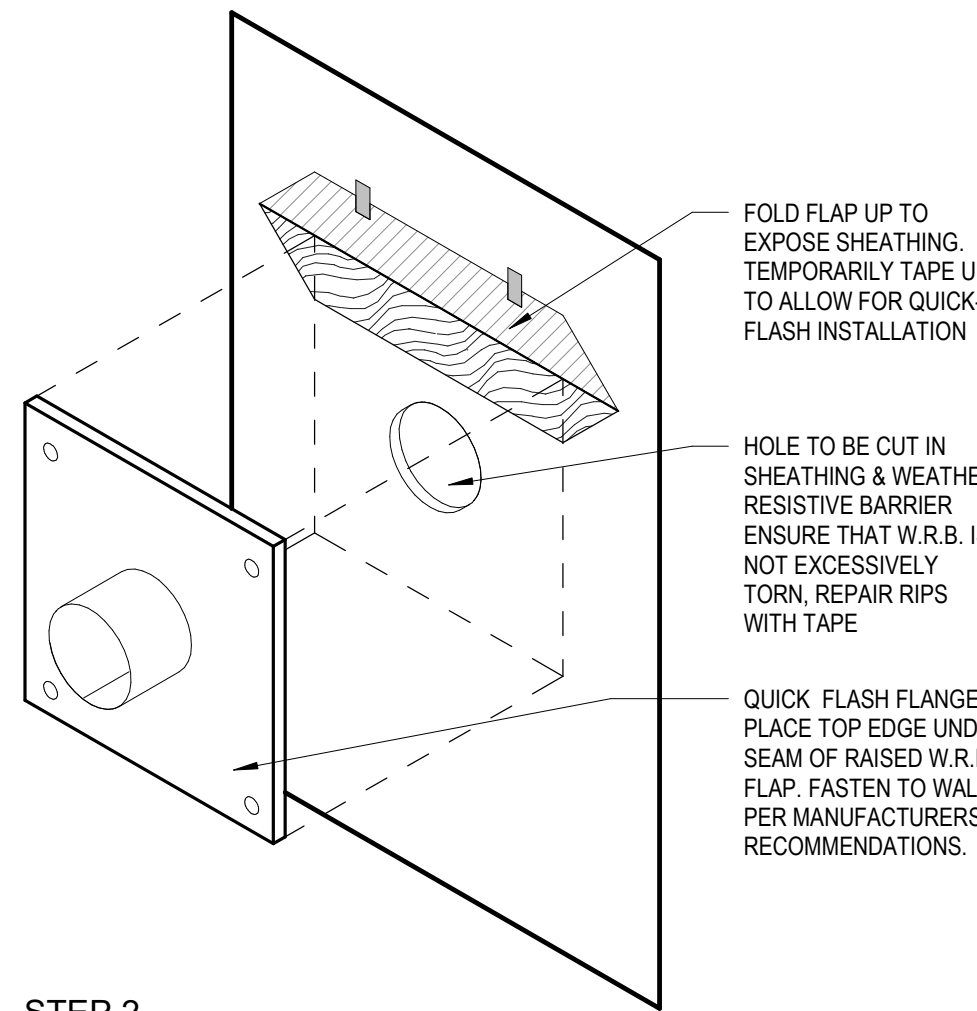
D9 CORNER TAPING AND FLASHING INSTALLATION
12" = 1'-0"



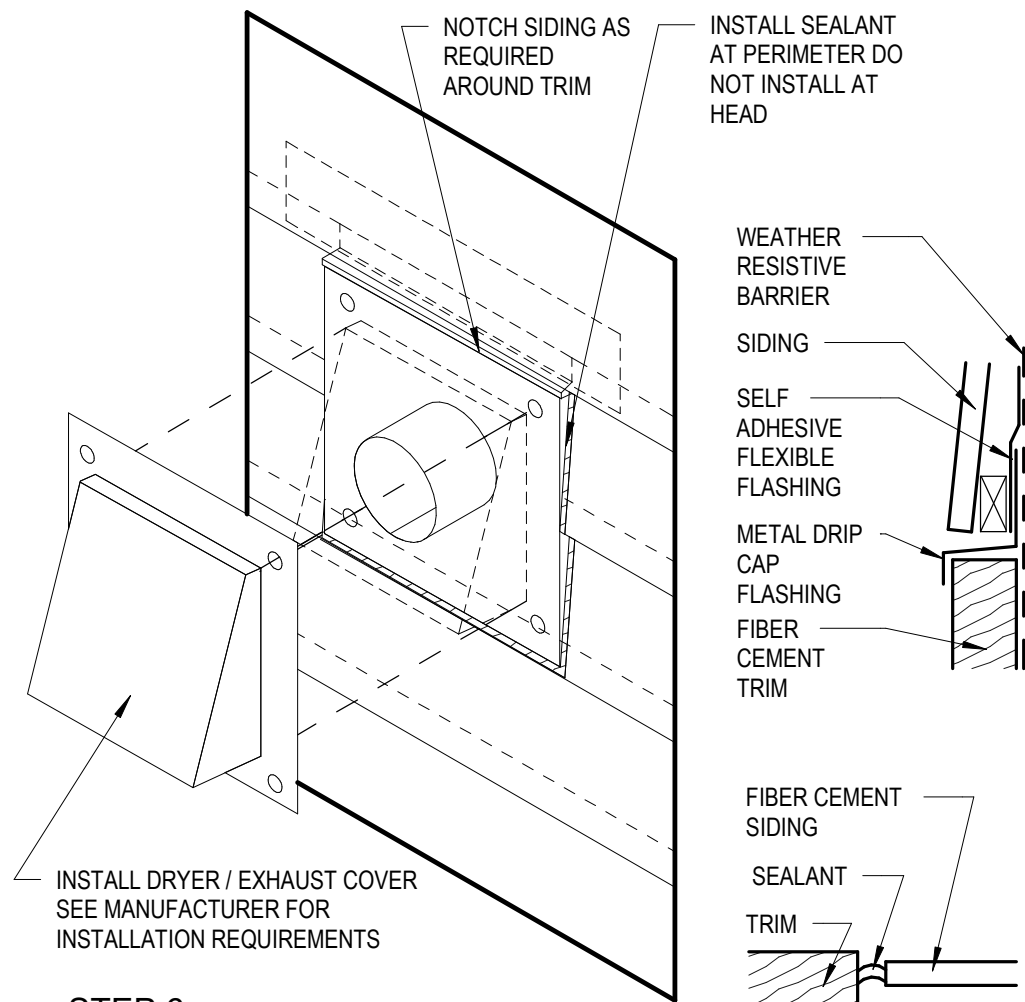
- STEP 1 -



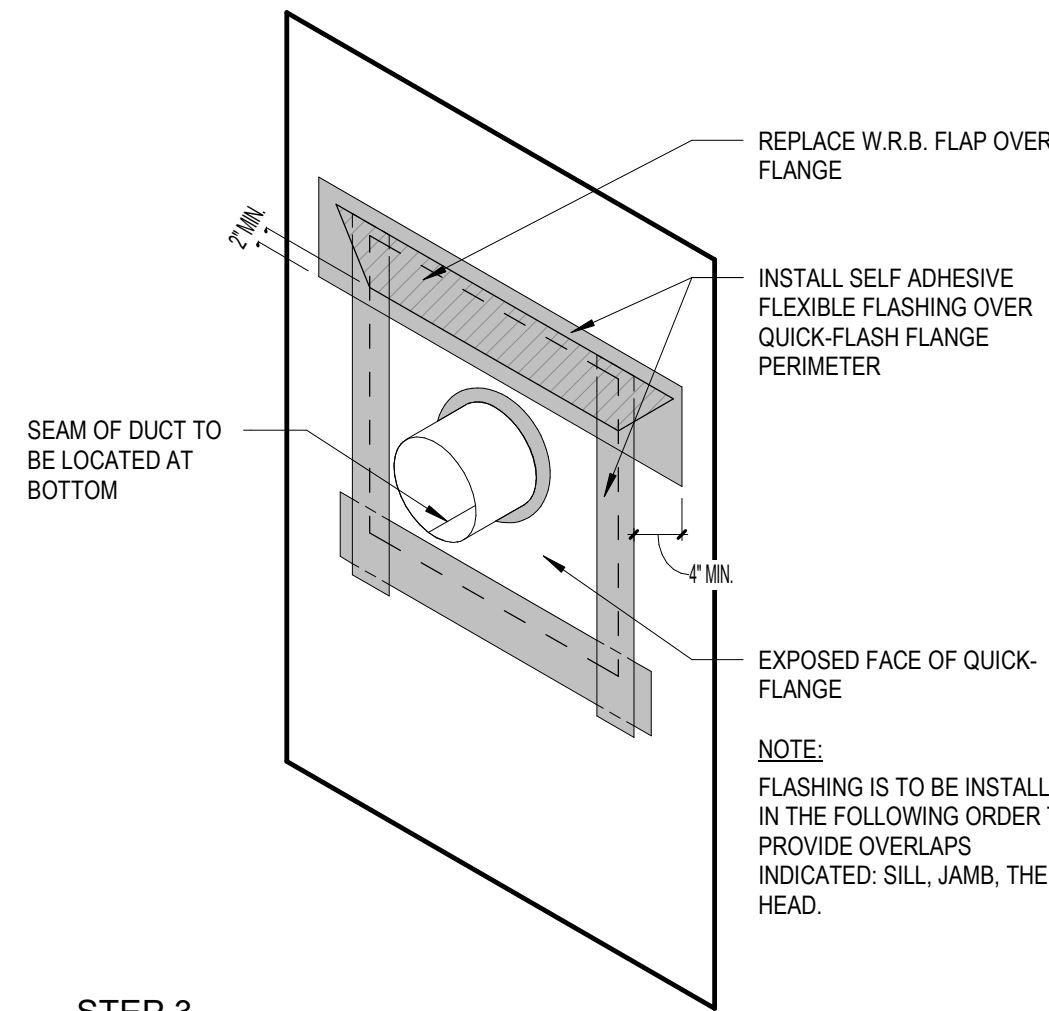
- STEP 5 -



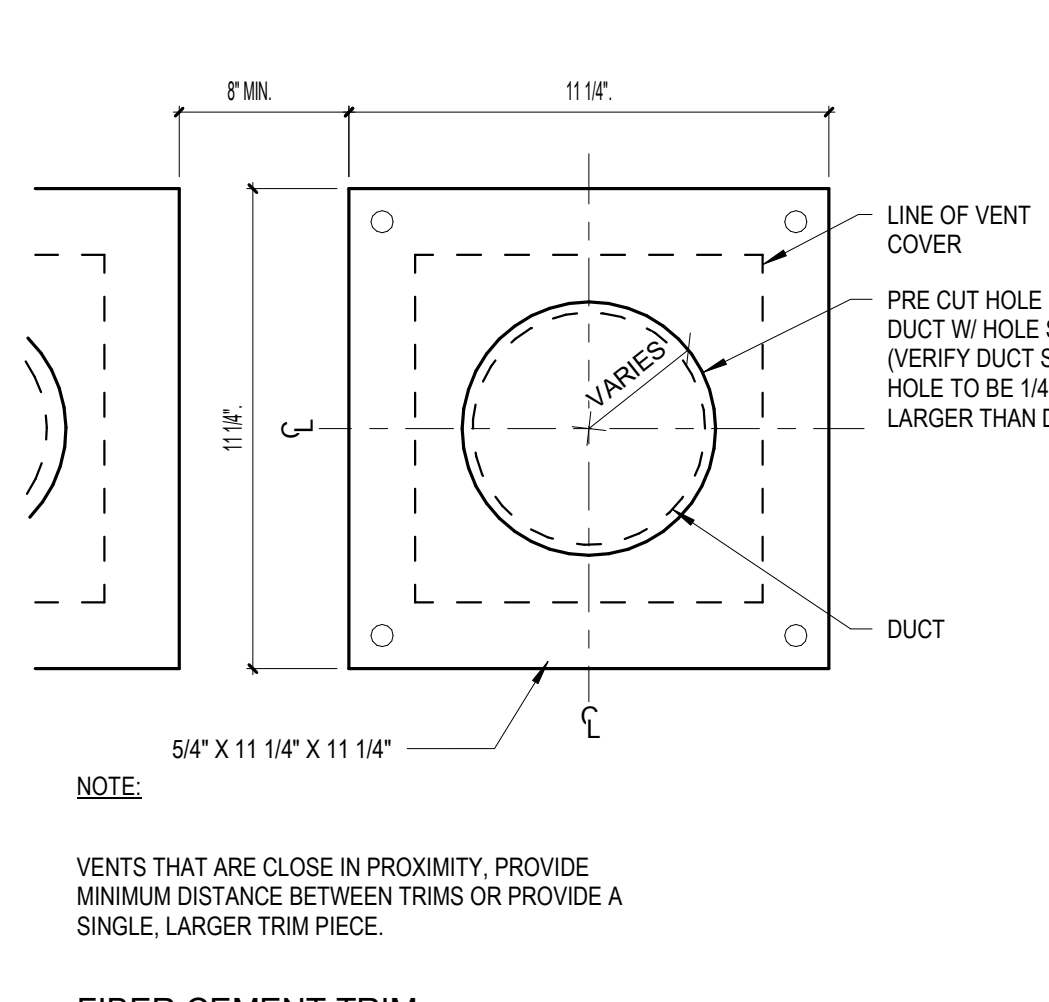
- STEP 2 -



- STEP 6 -



- STEP 3 -



- STEP 4 -

H5 DRYER / EXHAUST HOOD DETAILS
12" = 1'-0"

ISSUE HISTORY		
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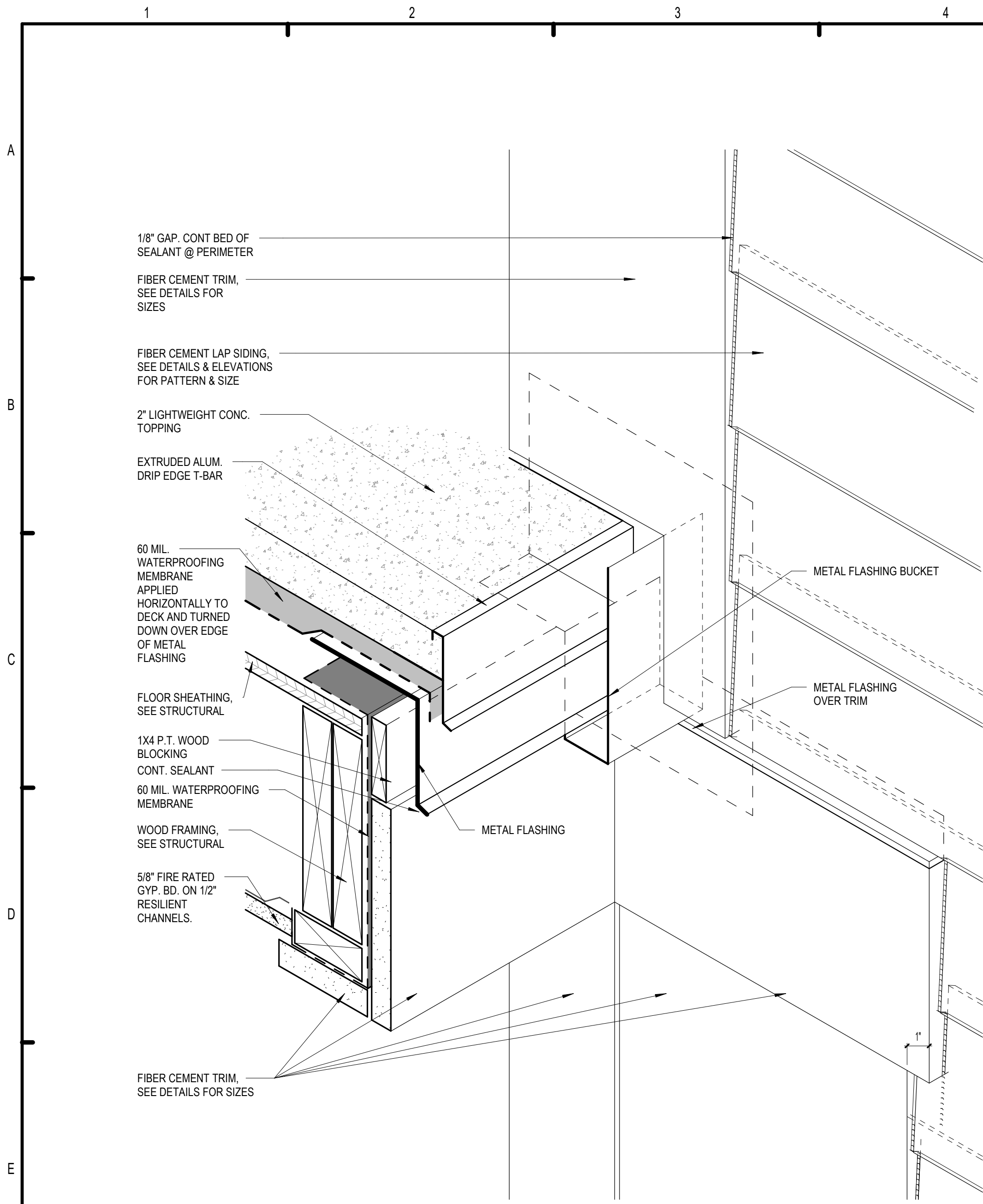


MICHAEL DOVE
8234

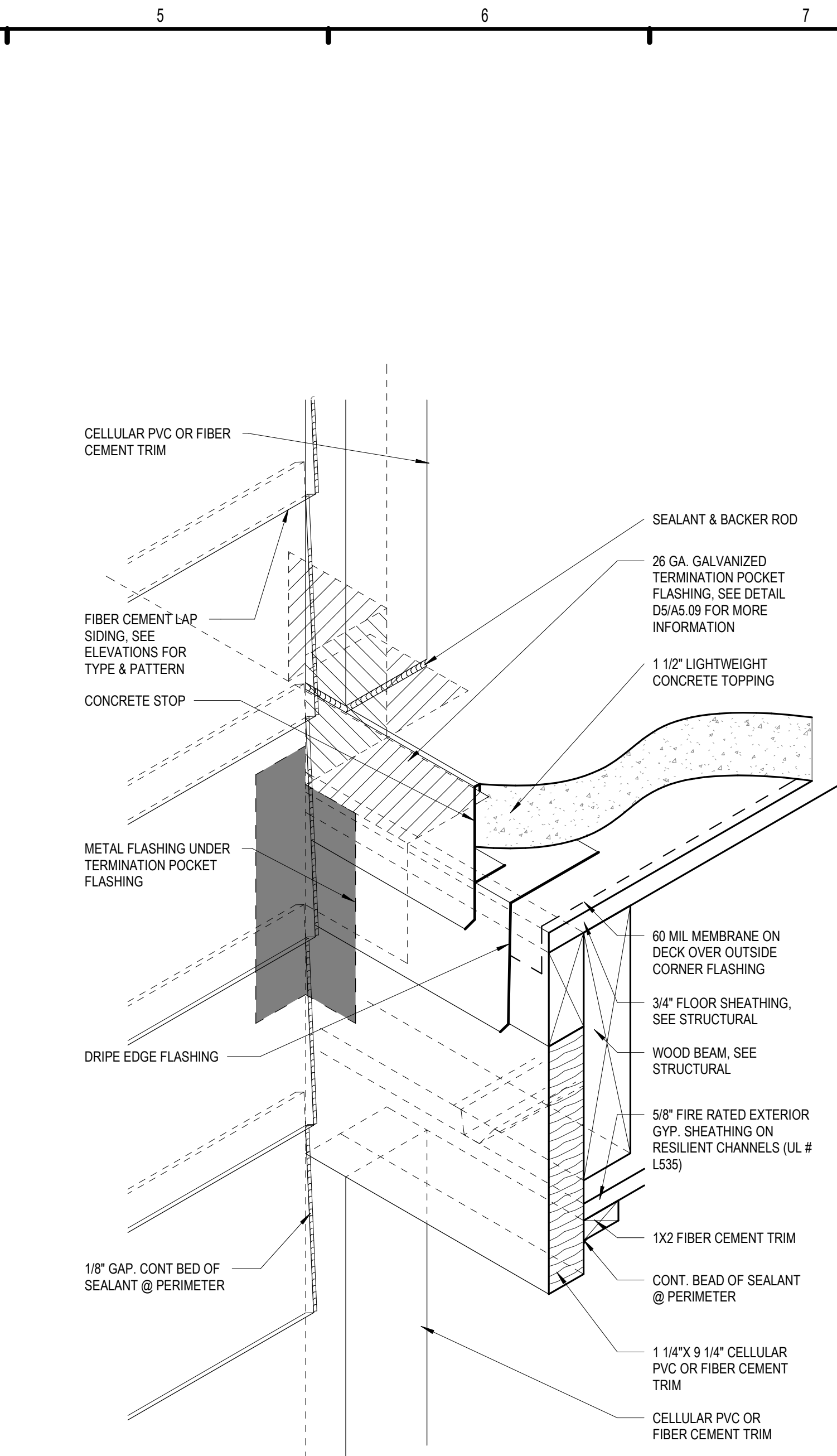
THE ROBERT MADISON	Drawn: MB
MADISON, ALABAMA	Checked: JK
	Approval: MS
	Date: 04/15/2022
	Project #: 5722

MISCELLANEOUS DETAIL

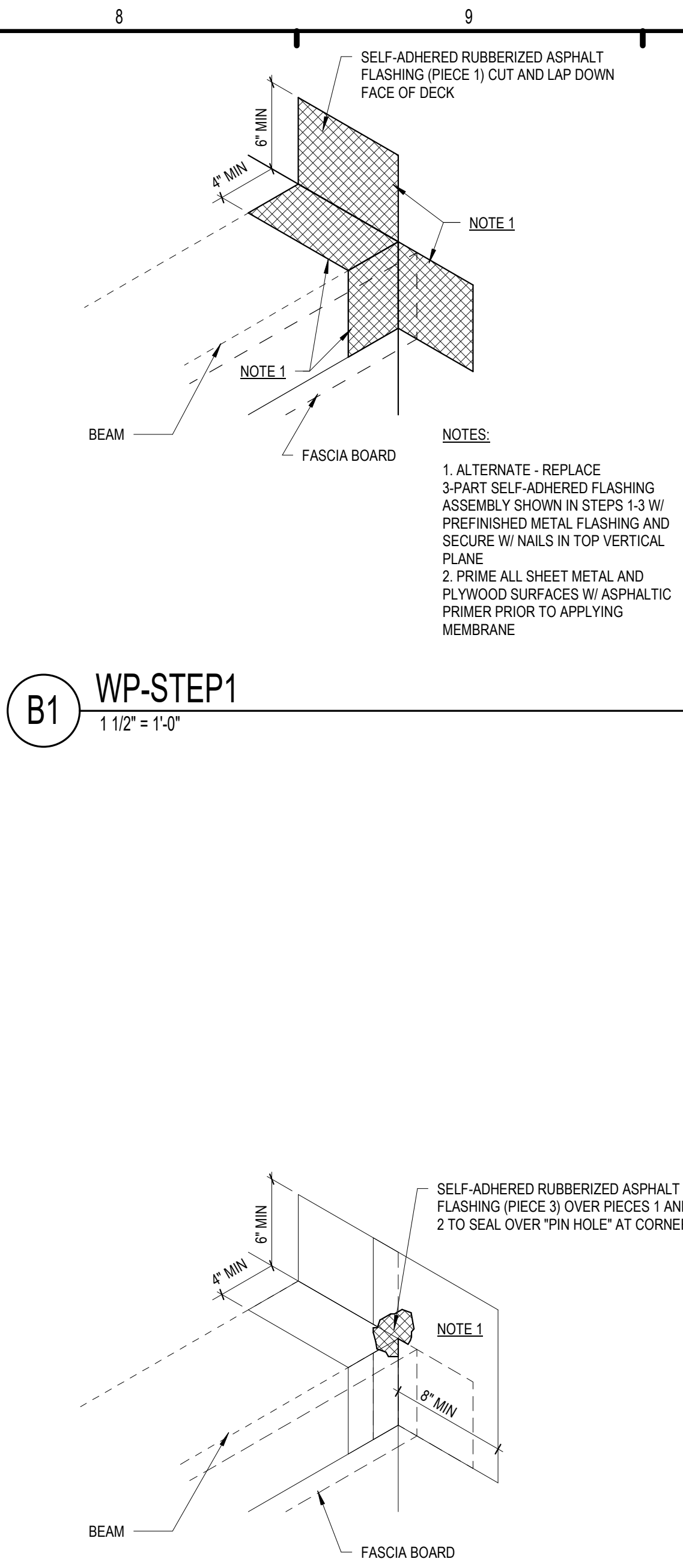
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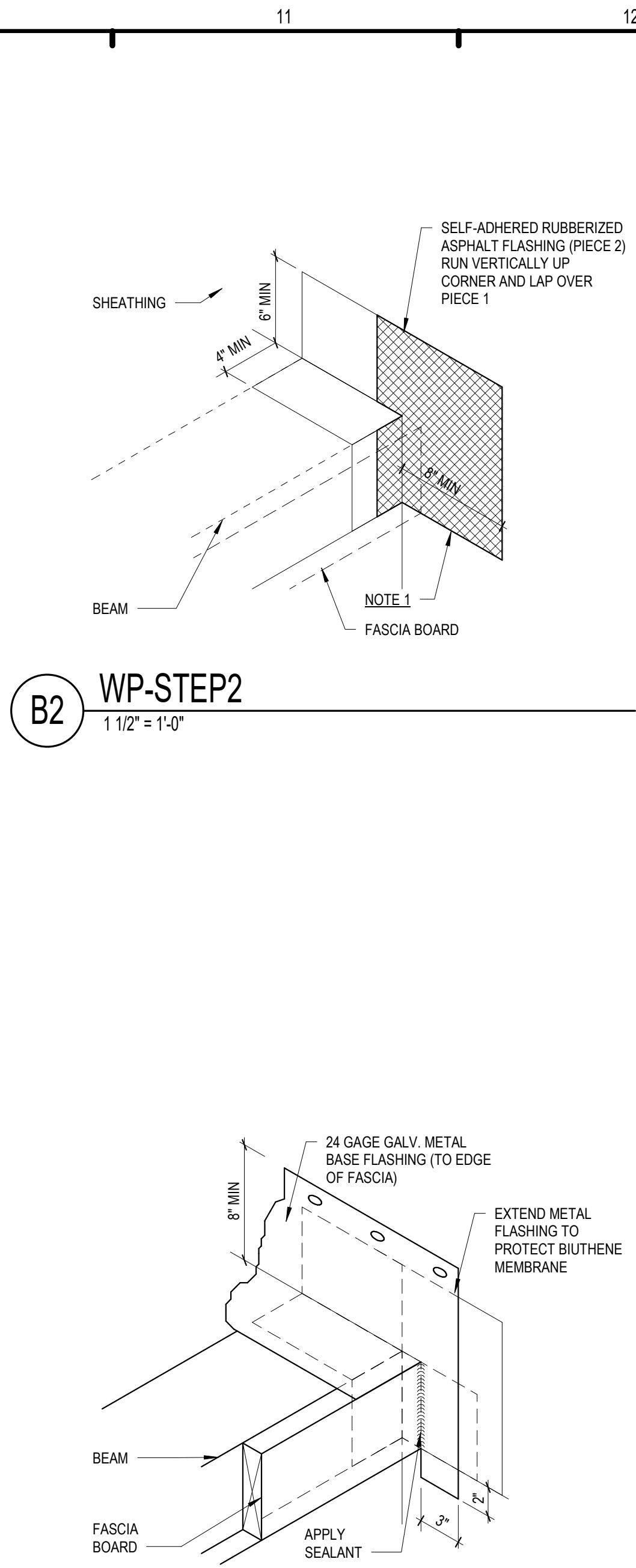
F1 BALCONY TRIM ISOMETRIC
3' = 1'-0"



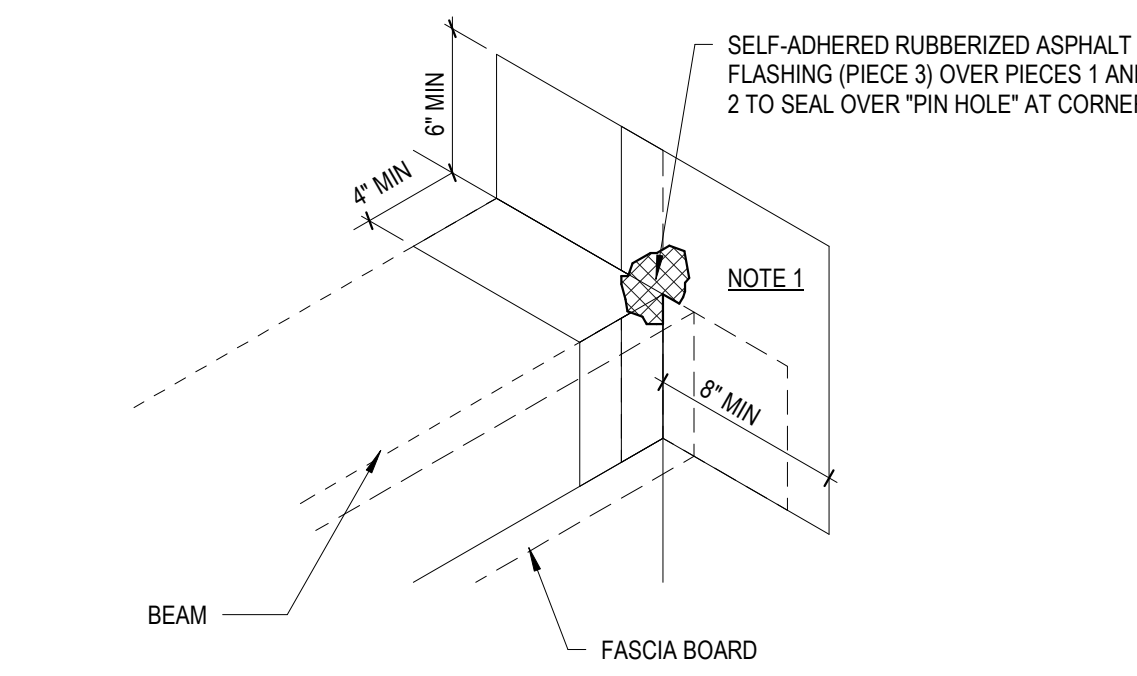
F2 BALCONY FLASHING ISOMETRIC
3' = 1'-0"



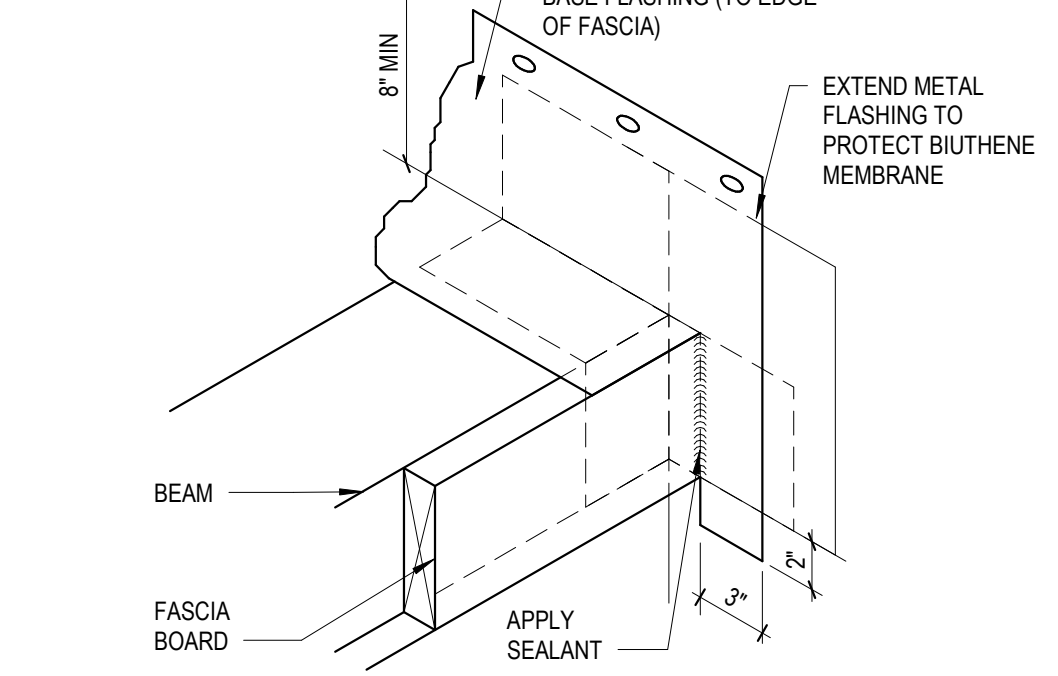
B1 WP-STEP1
1 1/2' = 1'-0"



B2 WP-STEP2
1 1/2' = 1'-0"



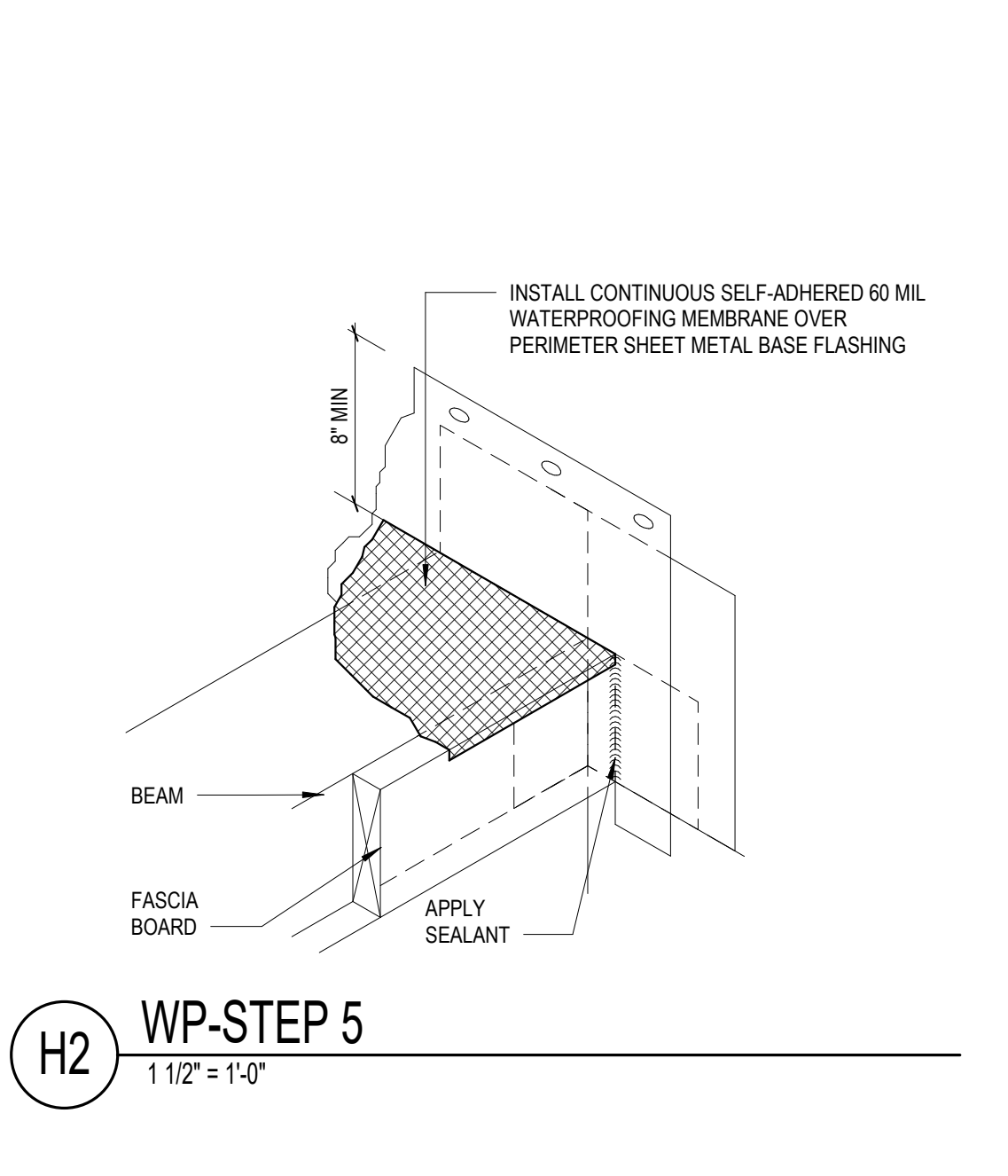
F3 WP-STEP 3
1 1/2' = 1'-0"



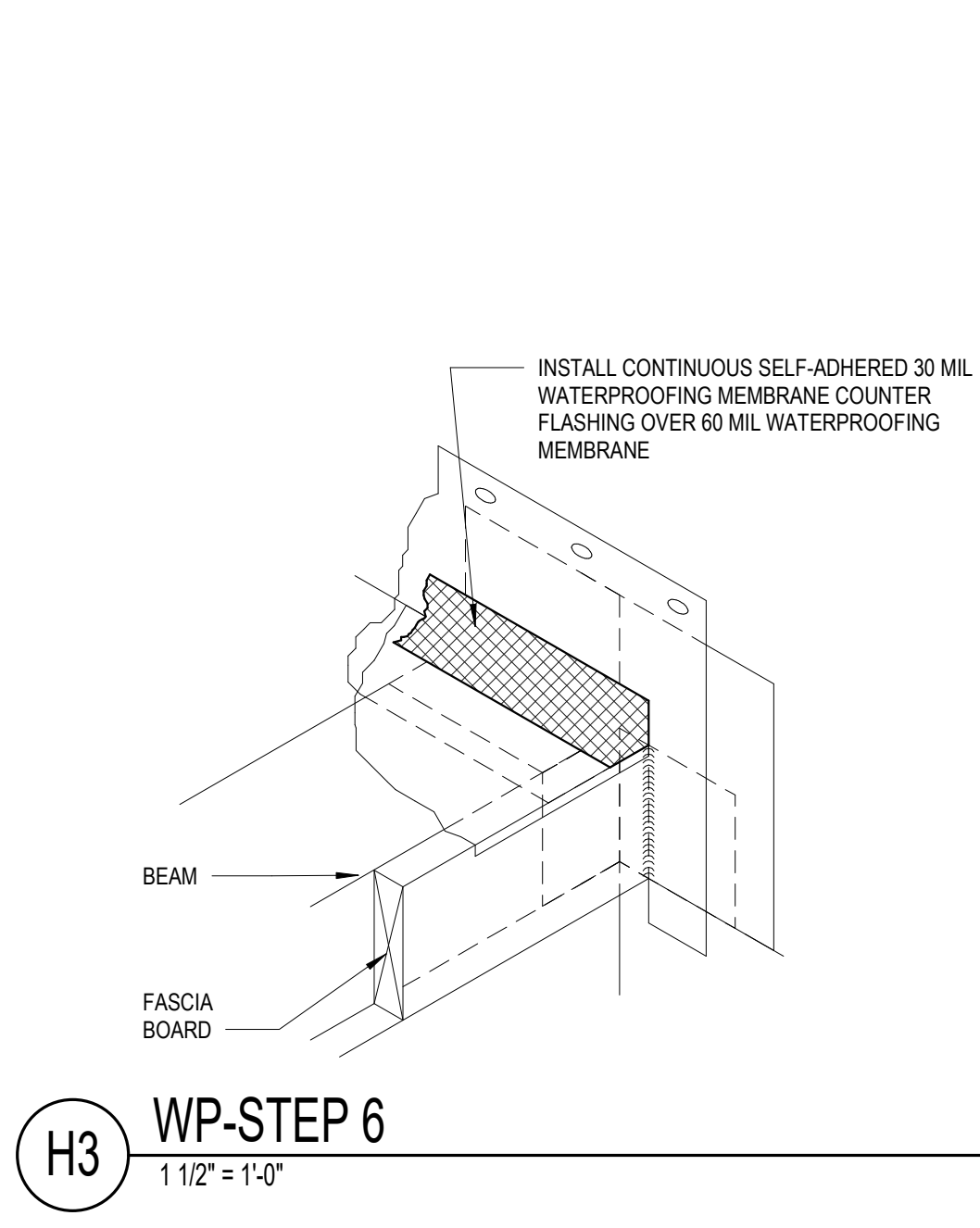
F4 WP-STEP 4
1 1/2' = 1'-0"



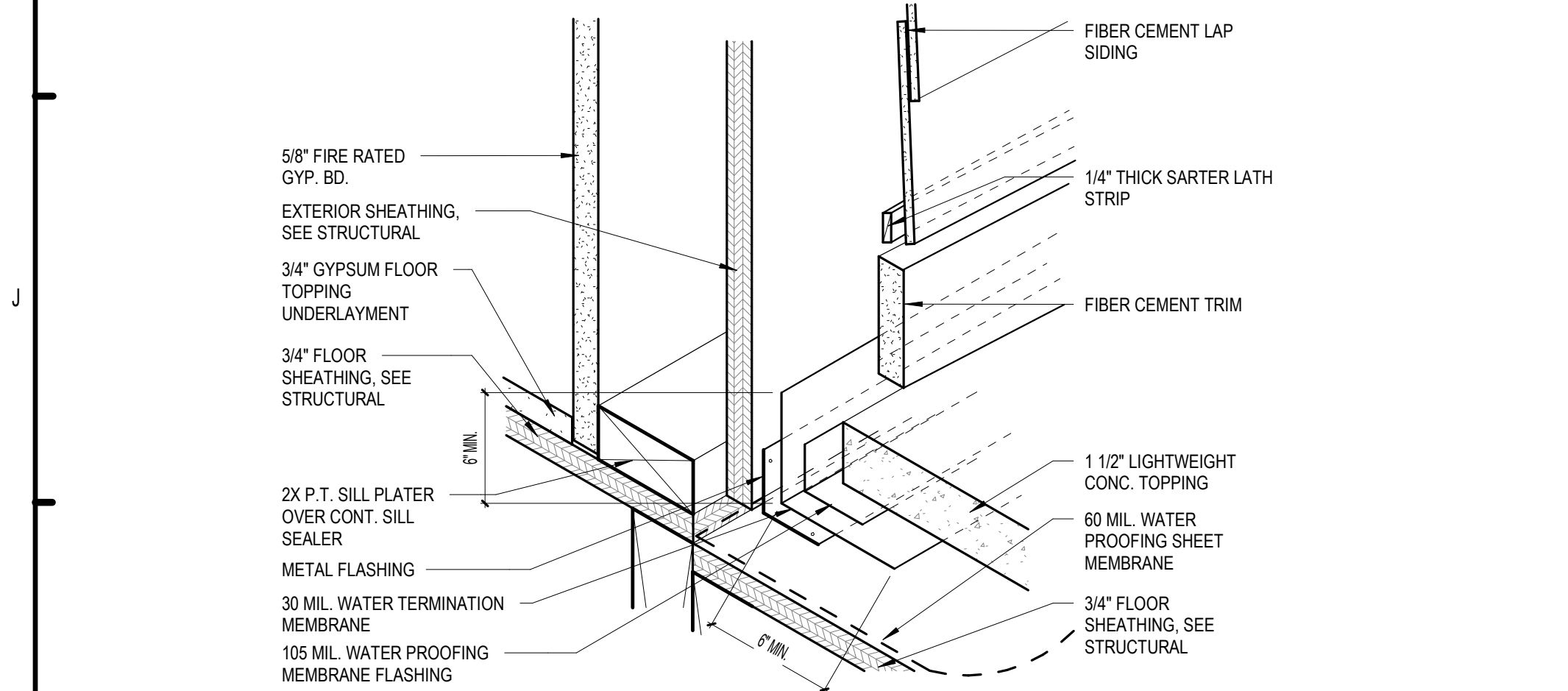
H1 DECK EDGE AT INSIDE CORNER DETAIL
3' = 1'-0"



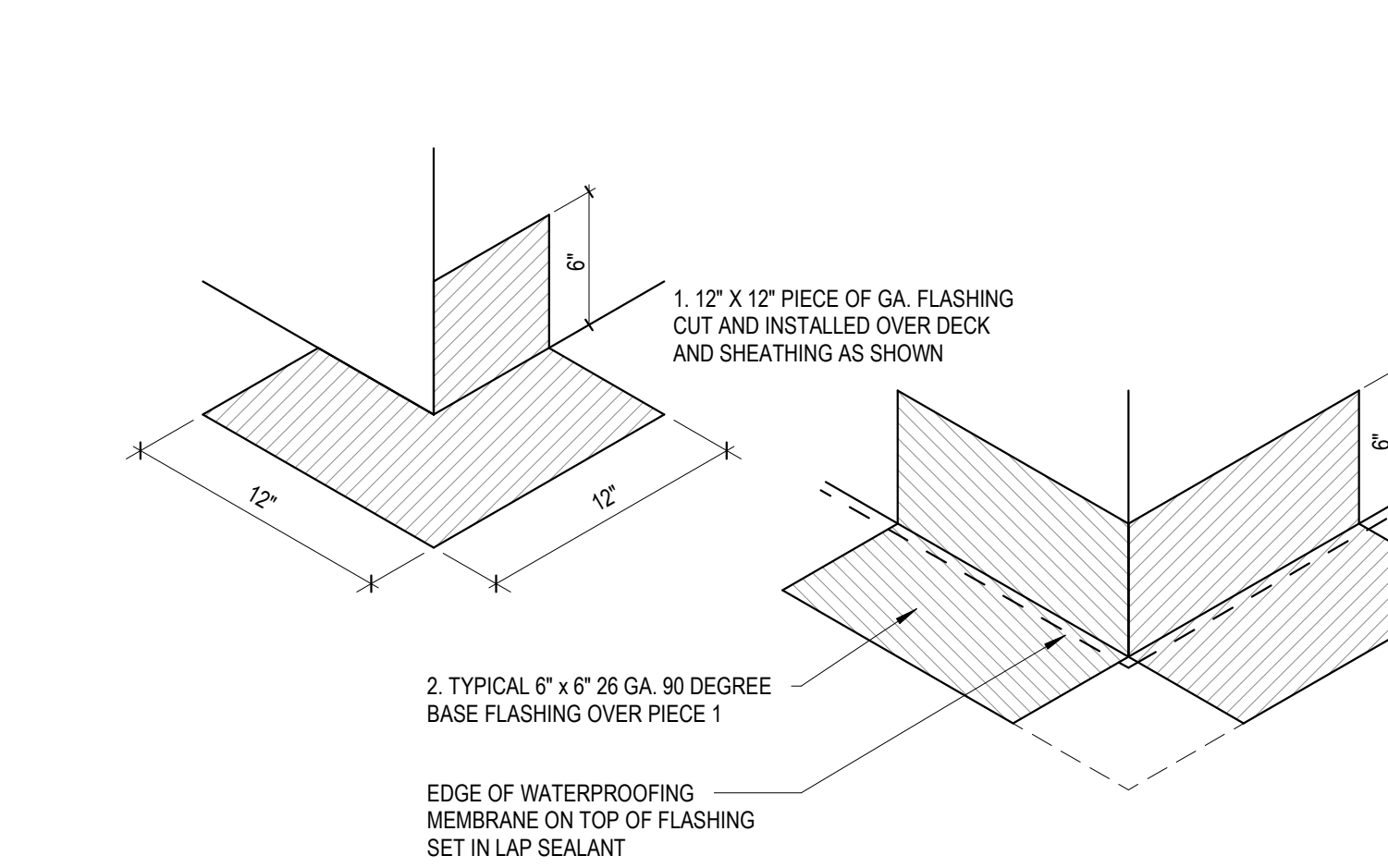
H2 WP-STEP 5
1 1/2' = 1'-0"



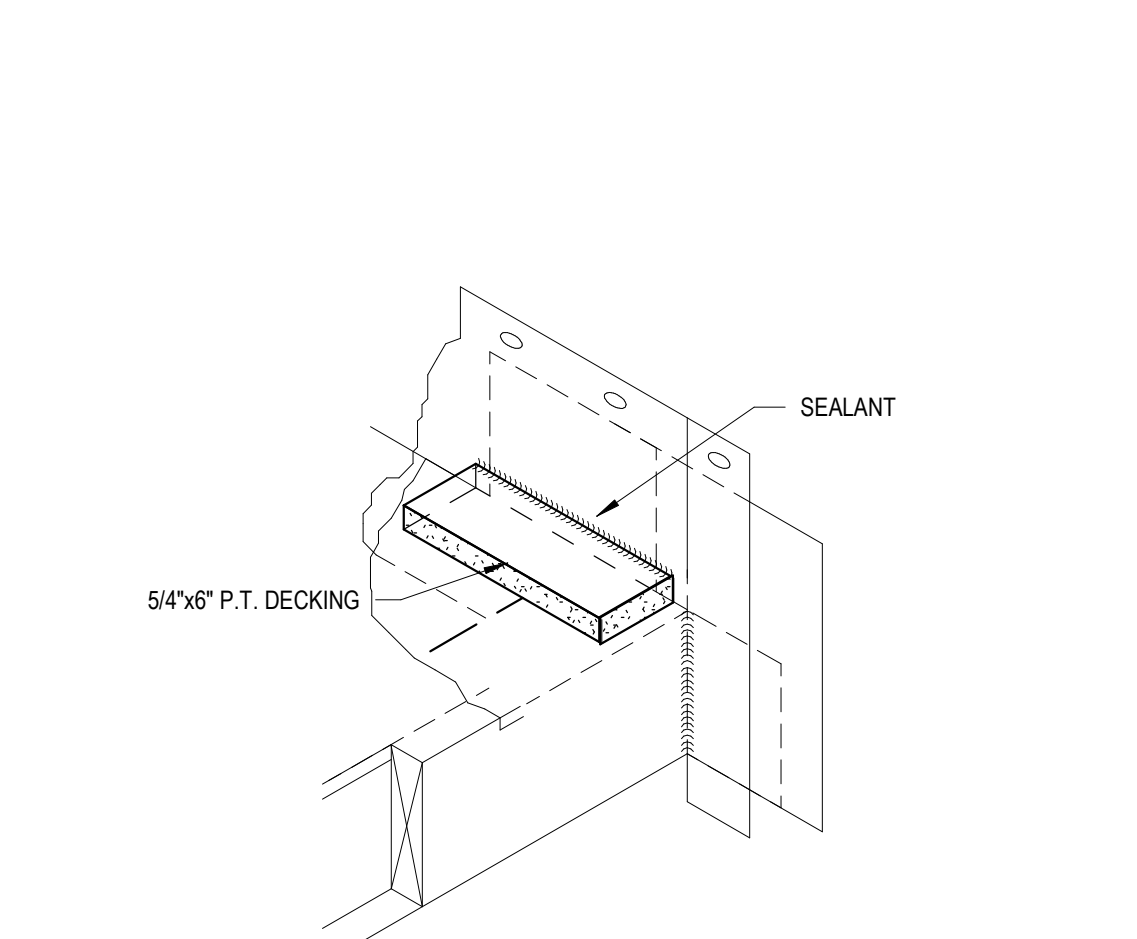
H3 WP-STEP 6
1 1/2' = 1'-0"



K1 FLASHING DETAIL @ BALCONY/BREEZEWAY
1 1/2' = 1'-0"



K2 DECK EDGE AT OUTSIDE CORNER DETAIL
1 1/2' = 1'-0"



K3 WP-STEP 7
1 1/2' = 1'-0"

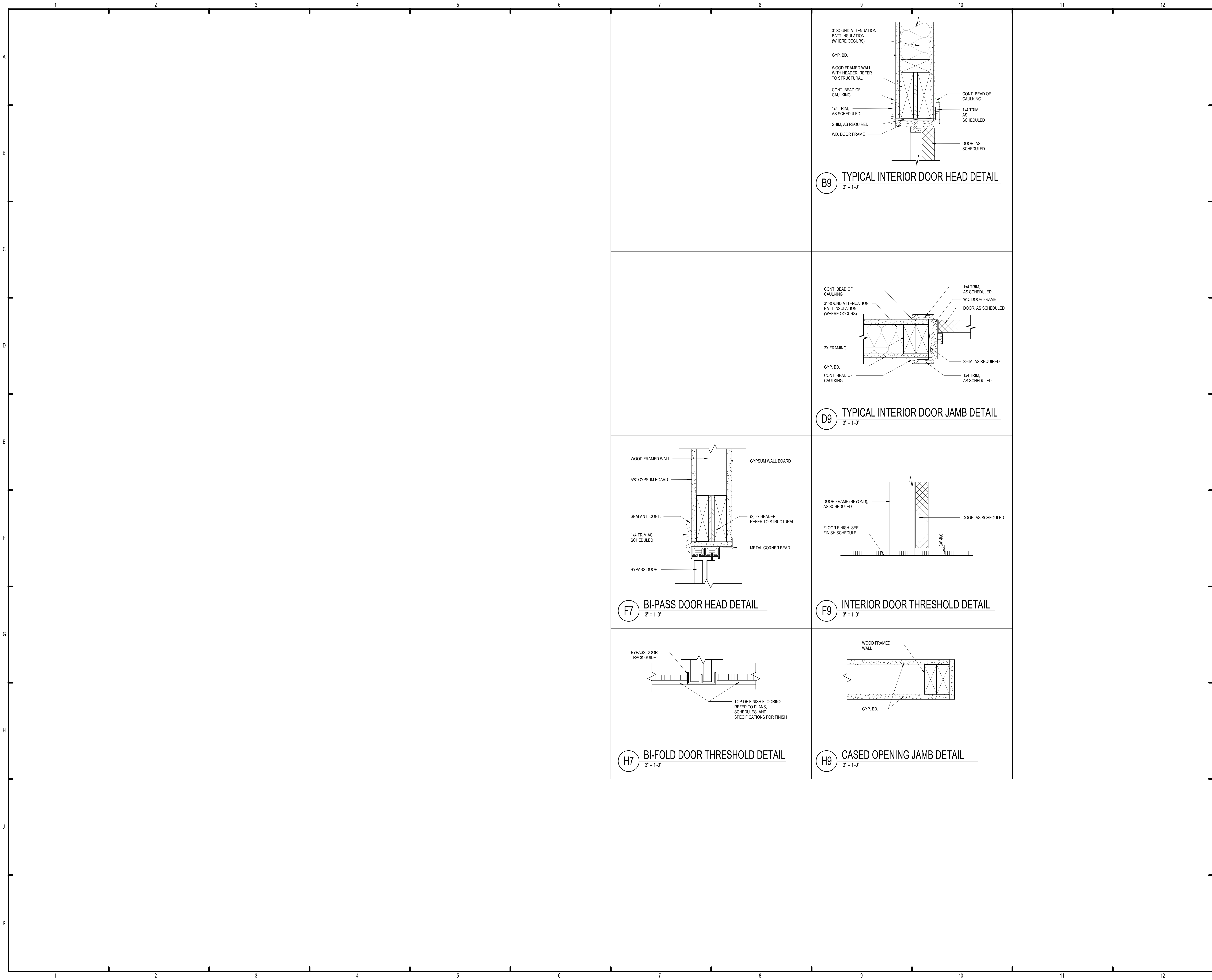
ISSUE HISTORY		
No.	Date	Description
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No.	Date	Description

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CONSULTANT
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4/15/22
REGISTERED ARCHITECT
MICHAEL DOVE
8234

THE ROBERT MADISON
MADISON, ALABAMA
Date: 04/15/2022
Project #: 5722

PENETRATION AND FLASHING DETAILS




ISSUE HISTORY		
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CONSULTANT



MICHAEL DOVE
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THE ROBERT MADISON

MADISON, ALABAMA

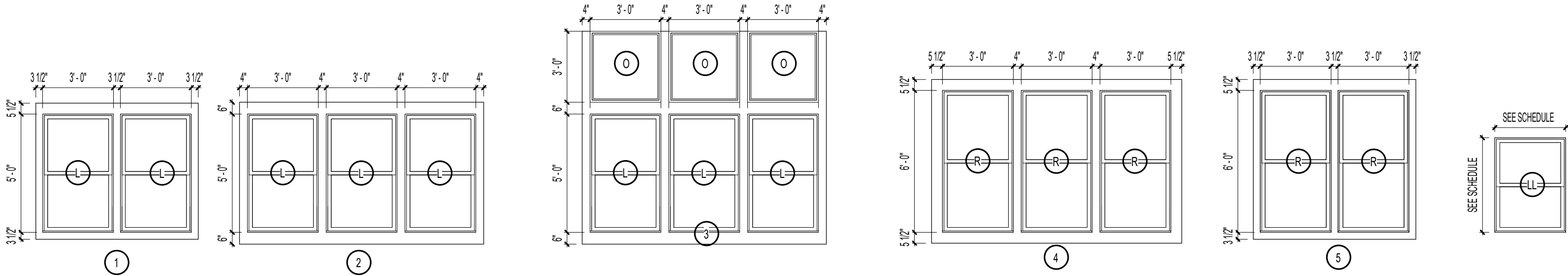
Drawn:	MB
Checked:	JK
Approval:	MS
Date:	04/15/2022
Project #:	572

DOOR DETAILS

A7.02

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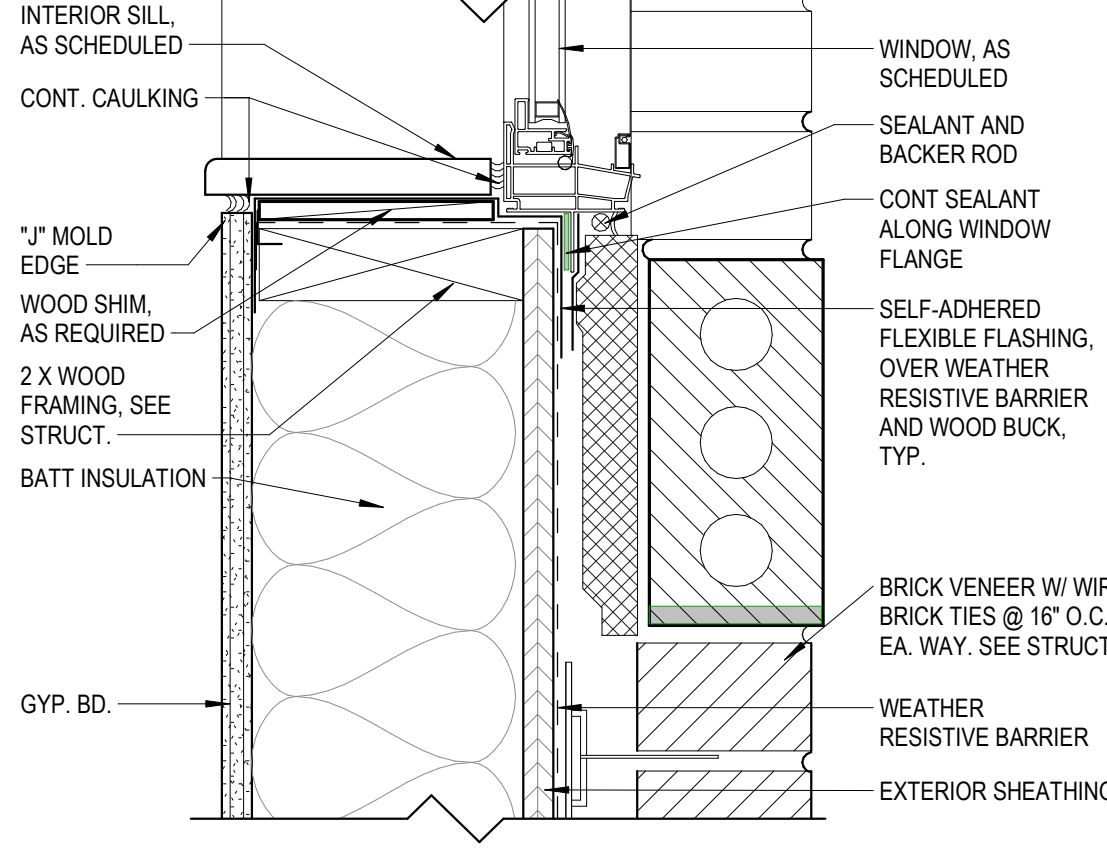
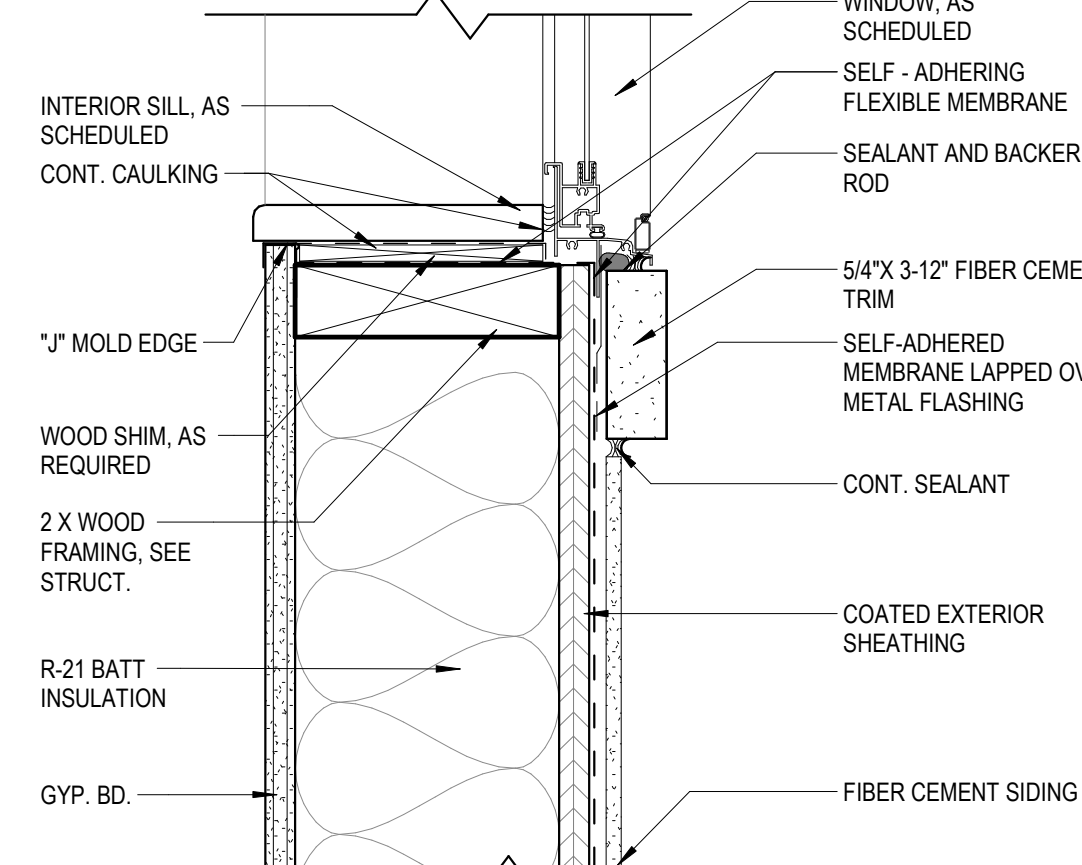
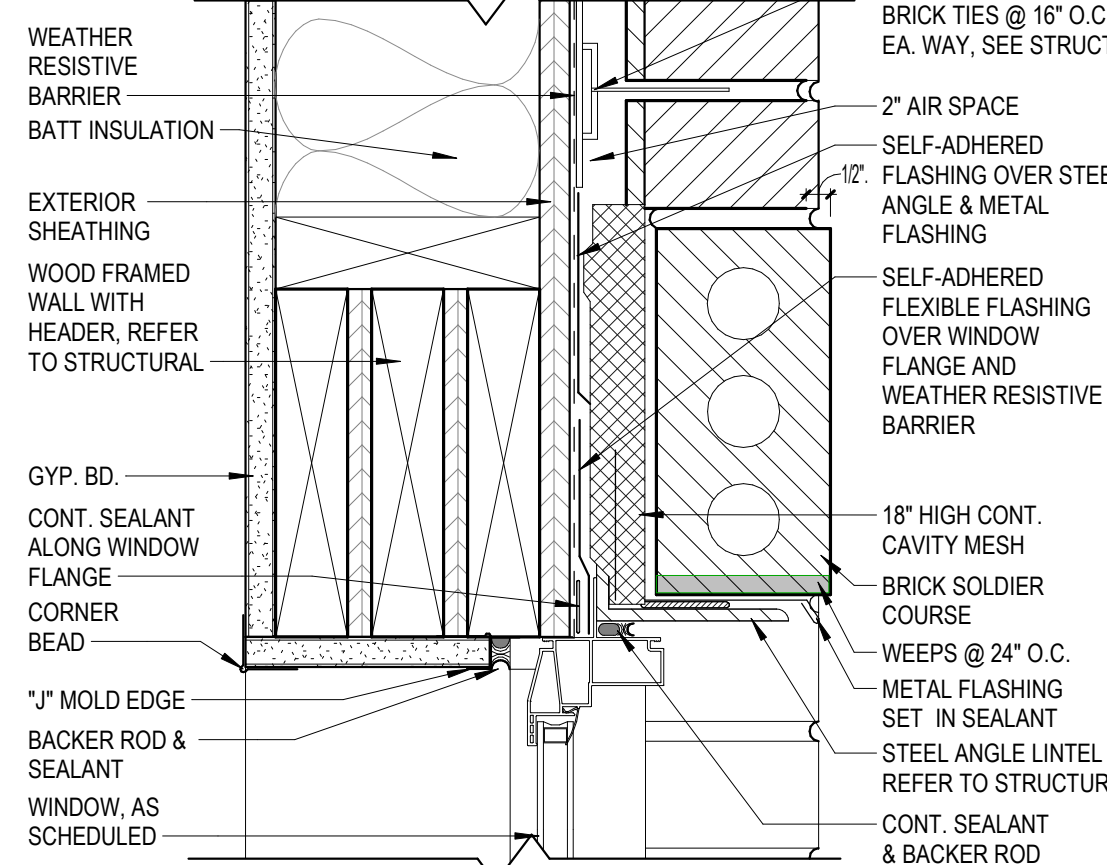
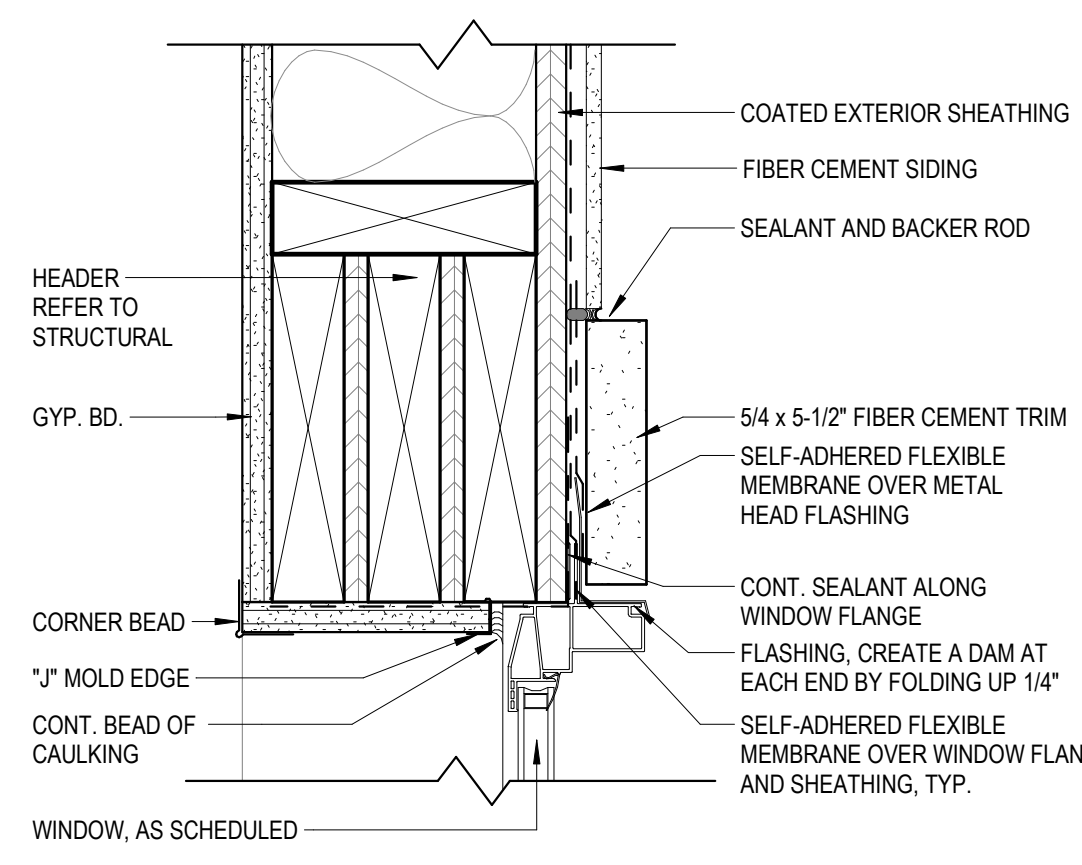
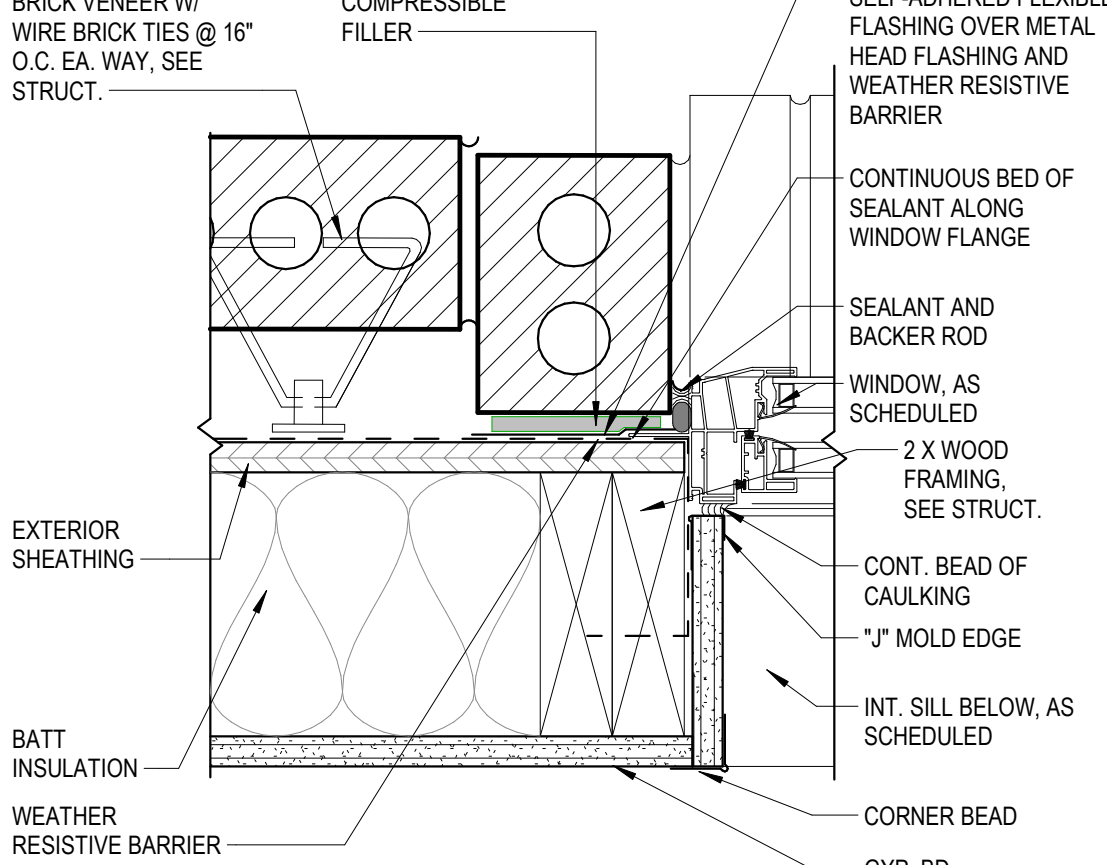
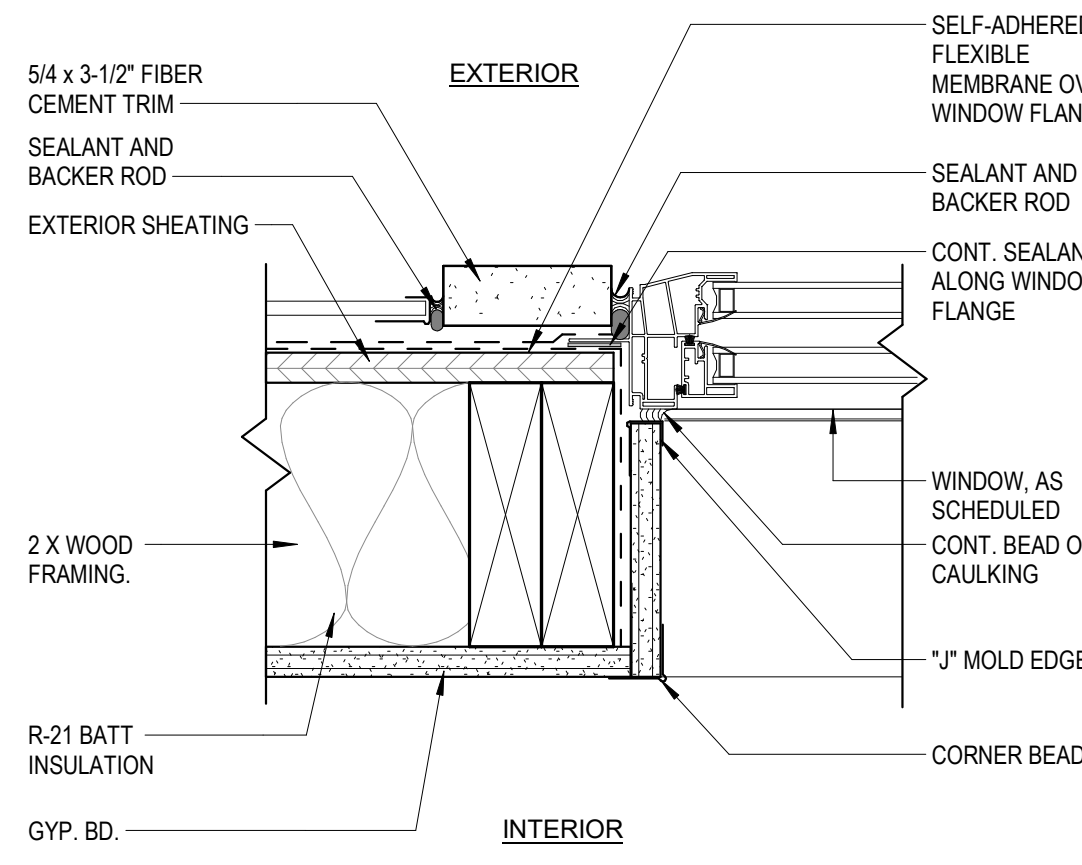
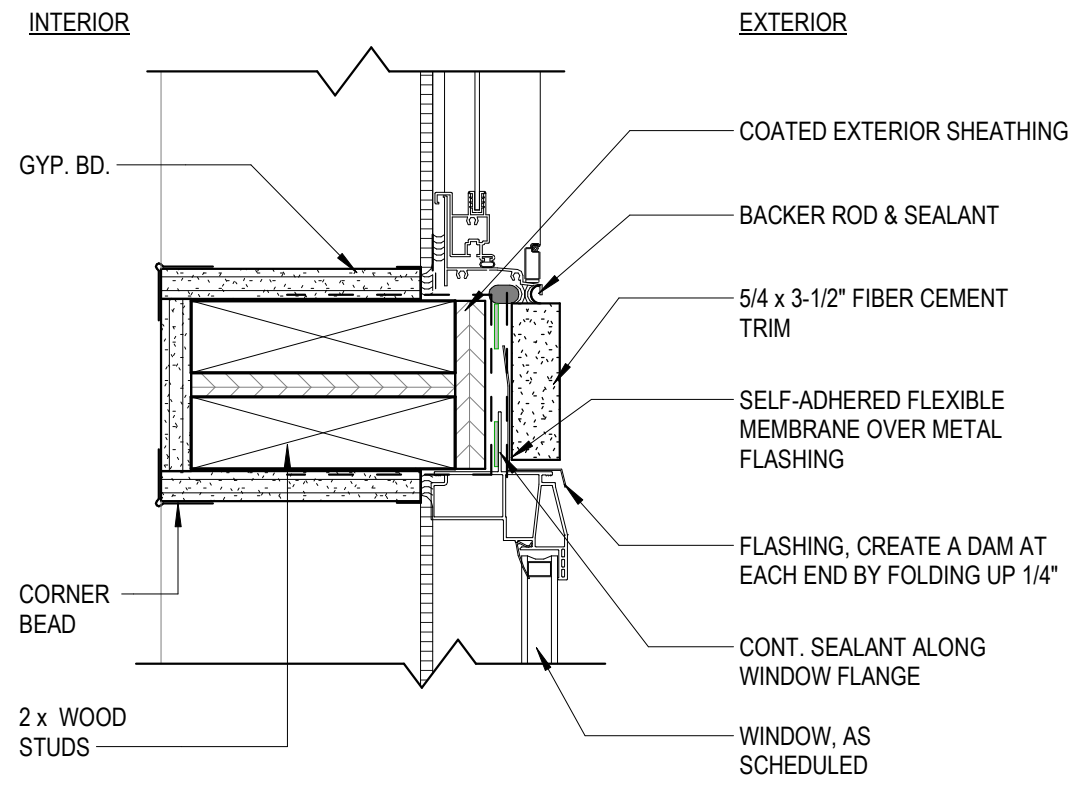
WINDOW SCHEDULE								
TYPE	WINDOW UNIT			GLAZING			FRAME	REMARKS
	WIDTH	HEIGHT	HEAD HEIGHT	THICKNESS	U VALUE	SHGC	MATERIAL	
I	3' - 0"	5' - 0"	8' - 0"	1/4" TEMP	.30	.25	HM	
L	3' - 0"	5' - 0"	8' - 0"	3/4"	0.34	0.27	VINYL	LOW-E
LL	3' - 0"	4' - 0"		3/4"	0.34	0.27	VINYL	LOW-E
O	2' - 10"	2' - 10"						
R	3' - 0"	6' - 0"		3/4"	0.34	0.27	VINYL	LOW-E
SS	1' - 6"	8' - 0"	8' - 0"					



WINDOW TYPES
1/4" = 1'-0"

WINDOW NOTES:

- VERIFY ROUGH OPENING REQUIRED WITH WINDOW MANUFACTURER.
- WINDOW MANUFACTURER SHALL PROVIDE CERTIFICATION, SIGNED AND SEAL BY A REGISTERED **ALABAMA** PROFESSIONAL THAT:
 - WINDOWS WILL BE ABLE TO WITHSTAND REQUIRED WIND LOADS AND PRESSURE.
 - TO SUPPLY TYPE AND NUMBER OF FASTENERS REQUIRED TO SECURE FRAME TO HEAD, JAMBS & SILL OF ALL WINDOW OPENINGS.
- PROVIDE SEALANT AT ALL SCREW-HOLES PROVIDED FOR FASTENING PRIOR TO FASTENER INSTALLATION.
- WINDOWS UNITS SHALL BE ANCHOR THROUGH THE JAMB, ANCHORS SHALL BE SECURELY FASTENED IN TO THE STRUCTURAL MATERIAL.
- PROVIDE TEMPERED GLASS AT ALL WINDOWS LOCATIONS WHERE THE FOLLOWING CONDITIONS EXIST:
 - LOWER SASH IF SILL HEIGHT IS BELOW 18"
 - GLAZING ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE OF THE GLAZING IS WITHIN A 24 INCH ARC OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION.
 - TOP EDGE GREATER THAN 36" ABOVE THE FINISHED FLOOR.
 - THE EXPOSED AREA OF AN INDIVIDUAL WINDOW PANE IS GREATER THAN 9 SQ. FT.



ISSUE HISTORY		
No.	Date	Description
1	04/15/2022	PERMIT SUBMITTAL
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No.	Date	Description

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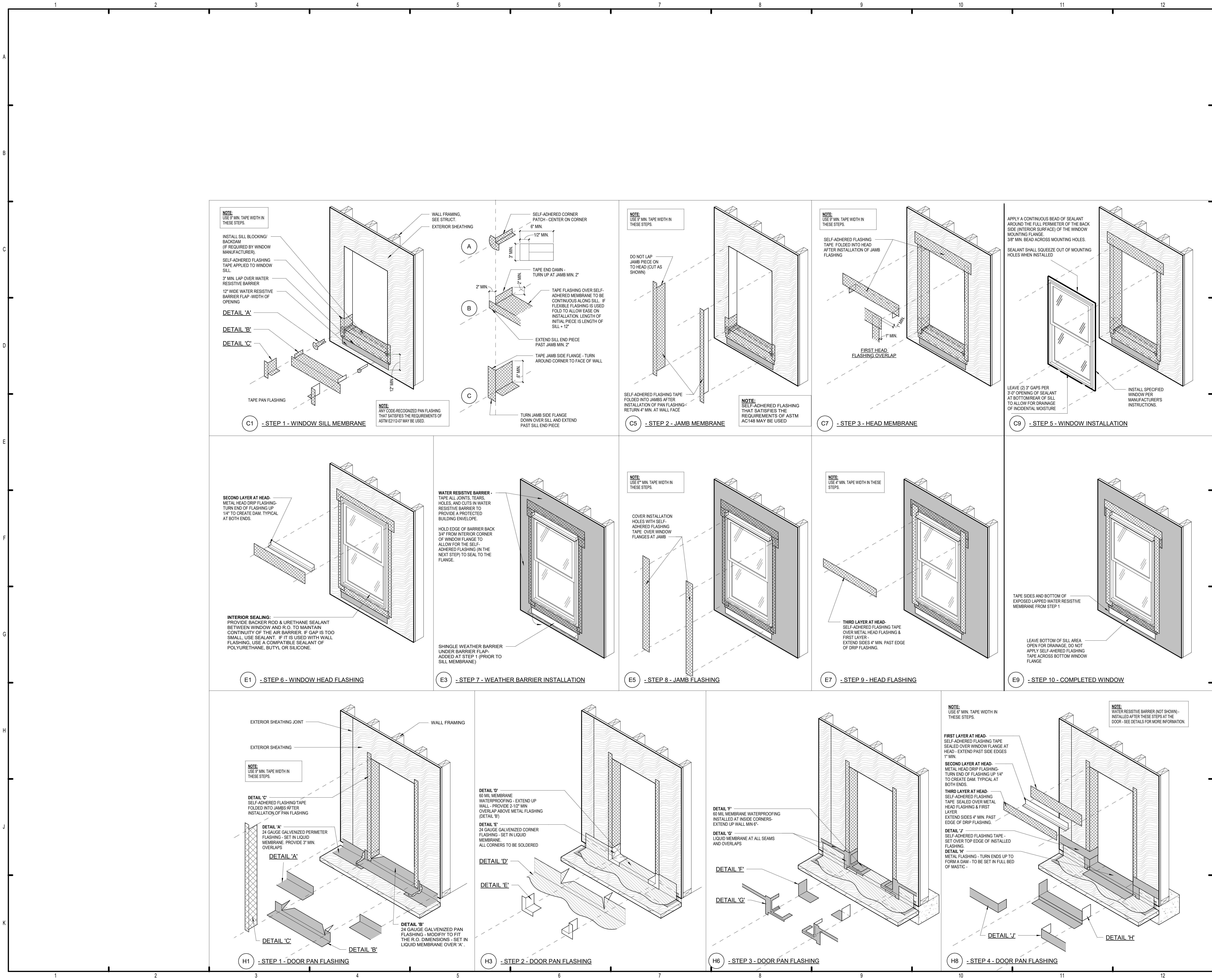


MICHAEL DOVE
8234

THE ROBERT MADISON MADISON, ALABAMA	Drawn	MB
	Checked	JK
	Approval	MS
	Date	04/15/2022
	Project #	5722

WINDOW SCHEDULE AND DETAILS

A7.03



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No.	Date	Description
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CONSULTANT



MICHAEL DOVE
ES24

THE ROBERT MADISON

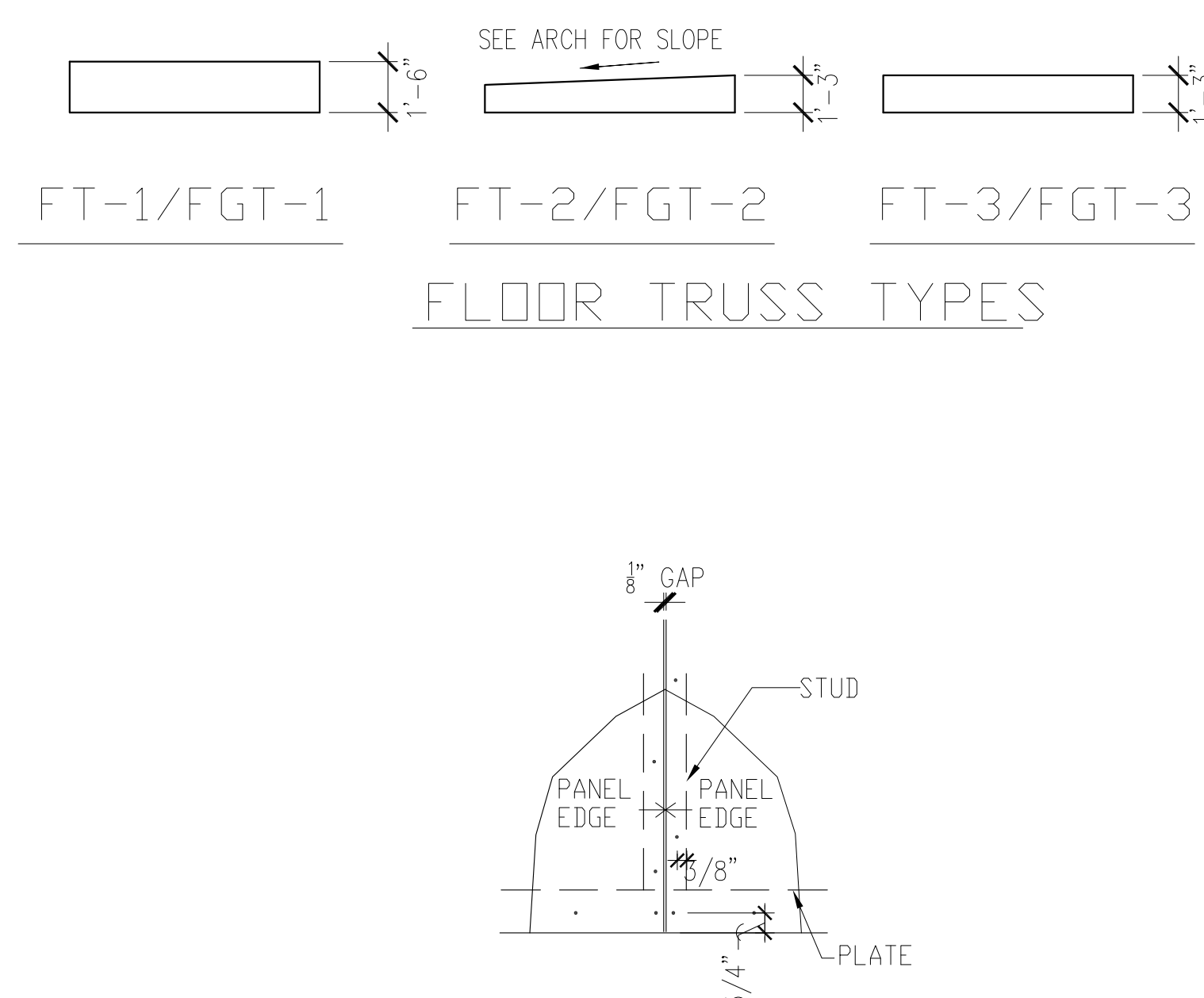
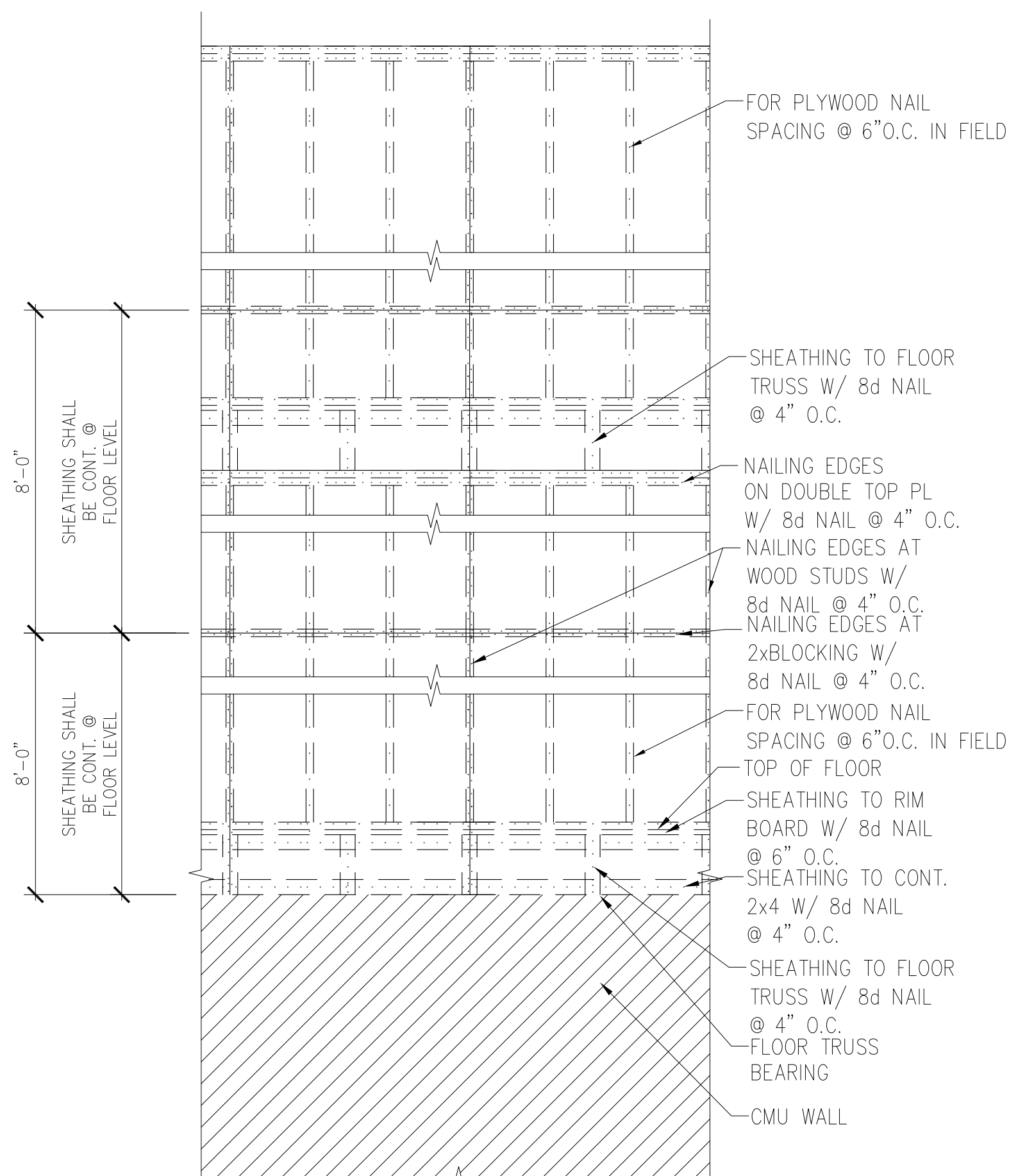
MADISON, ALABAMA

WINDOW AND DOOR TAPING PROCEDURES

A7.04

Drawn	MB
Checked	JK
Approval	MS
Date	04/15/2022
Project #	5722

CONNECTOR EQUIVALENT SCHEDULE SIMPSON				
SIMPSON TYPE	FASTENERS	UPLIFT (lbs.)	WOOD TO:	USP TYPE
MTS16 OR MTS12	(14) 10d x 1-1/2	1000	WOOD	MTW16
HTS20	(24) 10d x 1-1/2	1450	WOOD	HTW20
LTS12	(12) 10d x 1-1/2	775	WOOD	LTW12
H3	(4) 8d	455	WOOD	RT7
LTT20B	(10) 16d INTO STUDS	1750 (NAILS)	CONCRETE, WOOD	LTS20B
HTT16	(18) 16d	4175 (NAILS)	CONCRETE, WOOD	HTT16
SP-1	(10) 10d	585	WOOD (BOTT OF STUD)	SP122
SP-4	(6) 10d x 1-1/2	735	WOOD (TOP OF STUD)	SPT4
THA/THAC TYPE	PER SIMPSON CATALOG	PER SIMPSON CATALOG	SELECTION BASE ON TRUSS WIDTH AND HEIGHT	MSH TYPE
CS16	(22) 10d	1650	11" MIN AT EA END FOR WOOD	RSJ50
MAS	(6) 10d x 1-1/2	1005	SLAB, STEMWALL	FA3
HCP2	(12) 10d x 1-1/2	605	FOR 2x MEMBER	N/A
HCP4	(16) 10d	1000	FOR 4x MEMBER	N/A
A35	(12) 8d x 1/2	450 SHEAR	WOOD	MPA1
CC44, ECCU44 CC66, ECCU66	(4) 5/8d BOLTS (6) 5/8d BOLTS	1465 (UPLIFT) 3660 (UPLIFT)	ECCU44 AT BEAM END ECCU66 AT BEAM END	KCC44, KECCU44 KCC66, KECCU66
PCM/EPC TYPE	PER SIMPSON CATALOG	PER SIMPSON CATALOG	SELECTION BASE ON POST AND BEAM WIDTH	PCM/EPCM TYPE
ECCLL44 ECCLL66	BOLTS AS REQ	1465 (UPLIFT) 3660 (UPLIFT)	ECCLL44 FOR 4x4 POST ECCLL66 FOR 6x6 POST	KECCLL44 KECCLL66
ABU44 ABU66	(12) 16d 5/8 ANCHOR BOLT	2200	ABU44 FOR 4x4 POST ABU44 FOR 4x4 POST	PAU44 PAU66
HUC410	(18) 16d FOR WOOD	1510	CONCRETE, MASONRY, WOOD FOR 4x10 BM	HD410IF
HUC412	(22) 16d FOR WOOD	1510	CONCRETE, MASONRY, WOOD FOR 4x12 BM	HD412IF
LUS TYPE	PER SIMPSON CATALOG	PER SIMPSON CATALOG	LUS24 FOR 2x6, LUS26 FOR 2x8, LUS28 FOR 2x10, ETC.	JUS TYPE

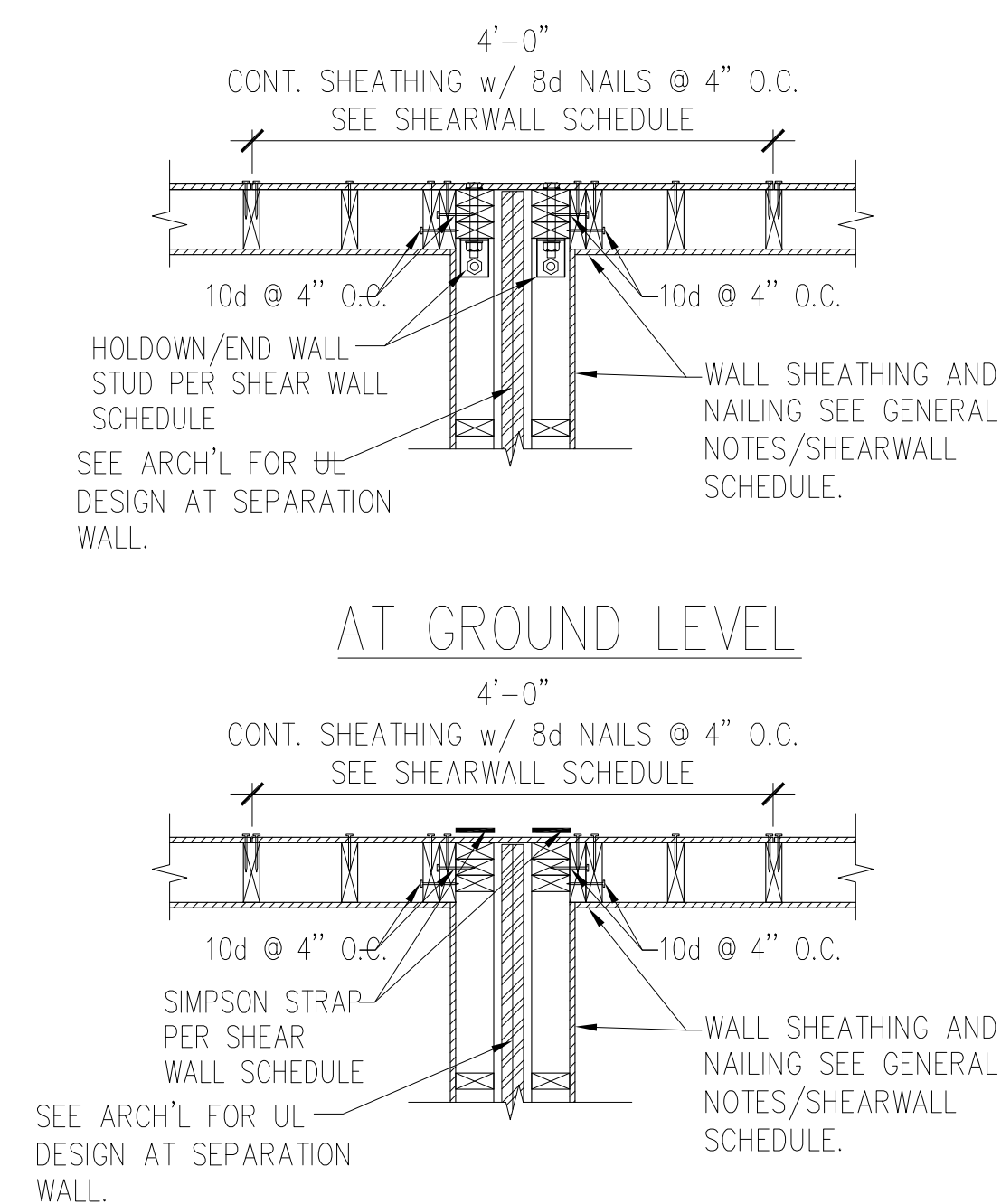
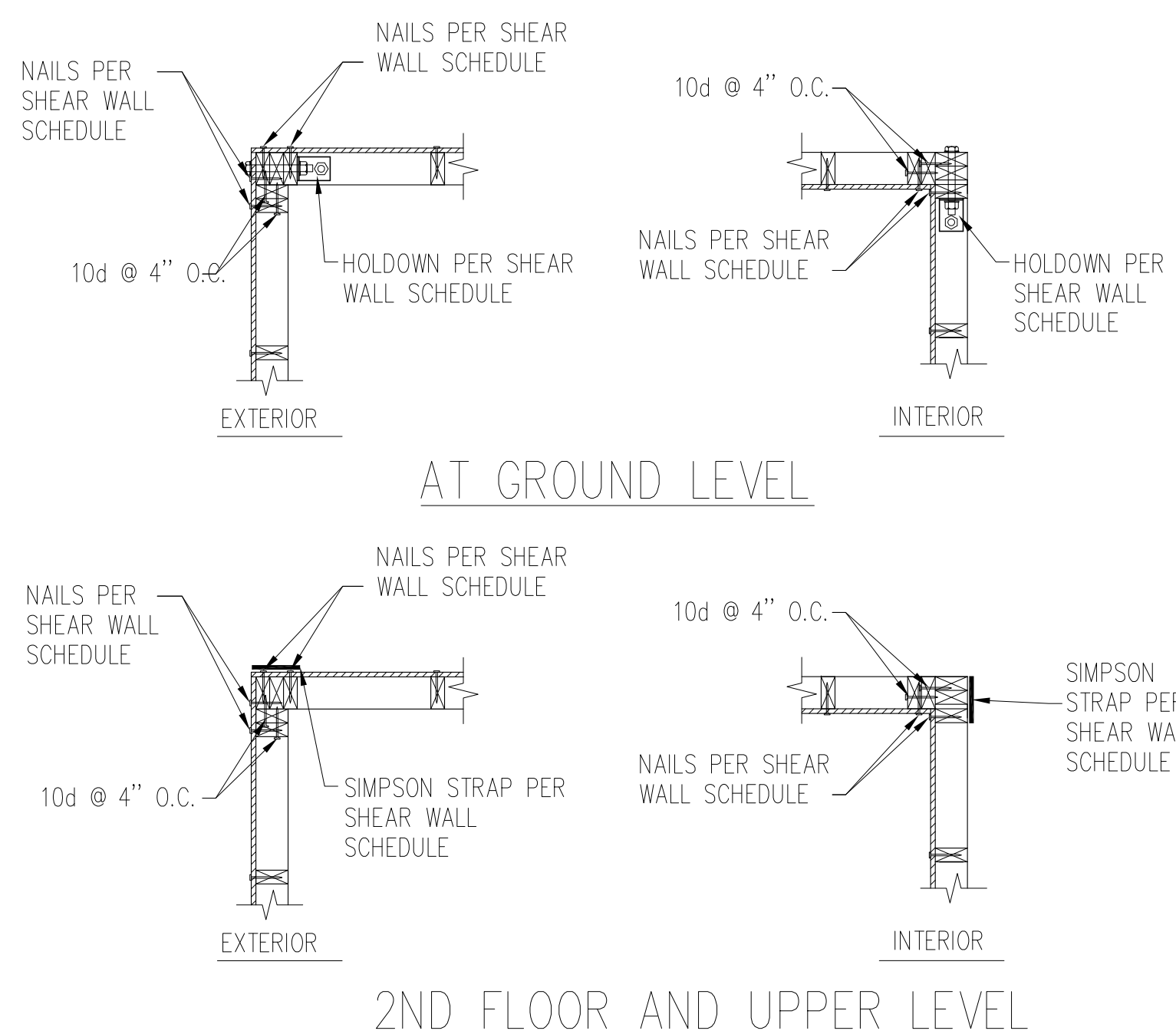
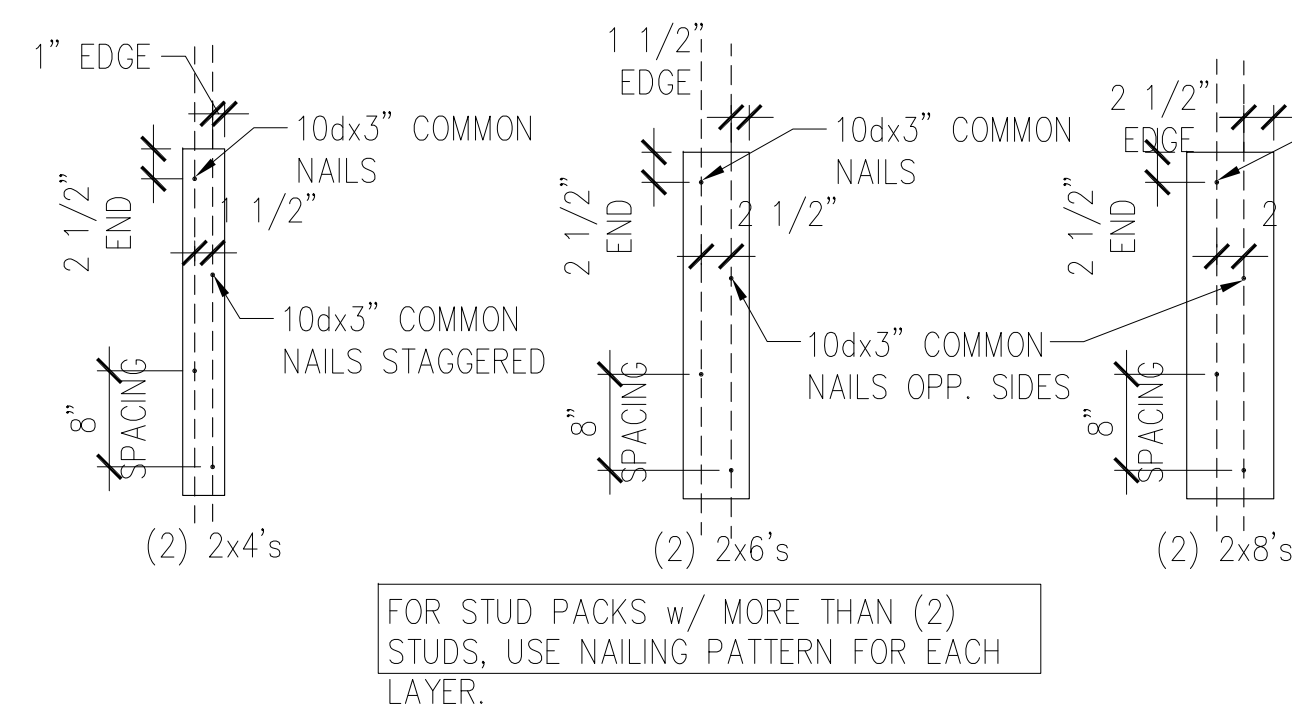


SHEARWALL SCHEDULE FOR 4 STORY BLDGS																													
TYPE	SHEATHING				SHEATHING NAILING				FND CONN	EACH END OF WALL				FND SLE RATE ATTACHMENT	2nd FLOOR SHEAR BLS	2nd FLOOR CONN EACH END OF WALL				3rd FLOOR SHEAR BLS	3rd FLOOR CONN EACH END OF WALL				4th FLOOR SHEAR BLS	4TH FLOOR CONN EACH END OF WALL			
	FND-2nd FLR	2nd-ROOF R 2 STORY	3rd-ROOF R 3 STORY	4th-ROOF R 4 STORY	FND-2nd FLR	2nd-ROOF R 2 STORY	3rd-ROOF R 3 STORY	4th-ROOF R 4 STORY		CONNECTOR	FND BOLT 1-1/4" EMBD BLS NOT EA END	ATTACH TO STUDS	REED STUDS AT END OF WALL			BOLTS TO STUDS	REED STUDS AT END OF WALL	CONNECTOR	NAILS EACH END OF STRAP AT STUD		BOLTS TO STUDS	REED STUDS AT END OF WALL	CONNECTOR	NAILS EACH END OF STRAP AT STUD		BOLTS TO STUDS	REED STUDS AT END OF WALL	CONNECTOR	NAILS EACH END OF STRAP AT STUD
①	7/16" C-D PLVD	7/16" C-D PLVD	7/16" C-D PLVD	7/16" C-D PLVD	8d NAILS R 4" OC	8d NAILS R 4" OC	8d NAILS R 6" OC	8d NAILS R 6" OC	HDB7	7/8" DIA	3-3/4" DIA BOLTS	② 2x4	1/2" DIAx 7" EMB. A. BOLTS @ 24" O.C.	N/A	③ C320x40	18-10x	N/A	④ 2x4	N/A	⑤ C320x40	18-10x	N/A	⑥ 2x4	N/A	⑦ C320x40	18-10x	N/A	⑧ 2x4	
②	5/8" GYPSUM WALLBOARD	5/8" GYPSUM WALLBOARD	5/8" GYPSUM WALLBOARD	5/8" GYPSUM WALLBOARD	6d COLLER NAILS R 4" OC	6d COLLER NAILS R 4" OC	6d COLLER NAILS R 6" OC	6d COLLER NAILS R 6" OC	HDSB	5/8" DIA	2-3/4" DIA BOLTS	② 2x4	1/2" DIAx 7" EMB. A. BOLTS @ 24" O.C.	N/A	③ C320x40	18-10x	N/A	④ 2x4	N/A	⑤ C320x40	18-10x	N/A	⑥ 2x4	N/A	⑦ C320x40	18-10x	N/A	⑧ 2x4	
③	7/16" C-D PLVD	7/16" C-D PLVD	7/16" C-D PLVD	7/16" C-D PLVD	8d NAILS R 4" OC	8d NAILS R 4" OC	8d NAILS R 6" OC	8d NAILS R 6" OC	HDB9	7/8" DIA	3-7/8" DIA BOLTS	② 2x6	1/2" DIAx 7" EMB. A. BOLTS @ 24" O.C.	N/A	③ C320x40	18-10x	N/A	④ 2x6	N/A	⑤ C320x40	18-10x	N/A	⑥ 2x6	N/A	⑦ C320x40	18-10x	N/A	⑧ 2x6	

- *1 SHEATH BOTH FACES OF WOOD BEARING WALL. PROVIDE SOLID BLOCKING AT ALL SHEET EDGES, AND AT 4'-0" O.C. MAXIMUM BETWEEN STUDS. 7/16" O.S.B SUBSTITUTION IS ACCEPTABLE IN LIEU OF C-D PLYWOOD.
- *2 THIS IS AN INTERIOR PARTY WALL, WITH SHEATHING ON ONE FACE ONLY. PROVIDE THE SHEARWALL SHEATHING SCHEDULED APPLIED DIRECTLY TO THE STUDS WITH THE SCHEDULED NAILING PATTERN.
- *3 SHEATH EXTERIOR FACE WITH SHEARWALL SCHEDULED, AND THE INTERIOR FACE OF STUDS AS SPECIFIED IN THE GENERAL NOTES FOR INTERIOR WALLS. 7/16" O.S.B SUBSTITUTION IS ACCEPTABLE IN LIEU OF C-D PLYWOOD.
- *4 ALL ANCHOR BOLTS SHALL HAVE 2" DIA WASHERS.

NOTES:

- 1 ALL HD, MAS, AND CS FASTENERS ARE AS MANUFACTURED BY THE SIMPSON STRONG-TIE COMPANY, INC., OR EQUAL.
- 2 WHERE SCHEDULED ADDITIONAL STUDS AT THE ENDS OF SHEAR WALLS ARE INTERRUPTED AT TRUSS BEARING, PROVIDE SOLID BLOCKING IN THE TRUSS SPACE TO MATCH THE STUDS SCHEDULED FOR THE LOWER FLOOR.
- 3 WHERE SCHEDULED SHEATHING CANNOT EXTEND FULL HEIGHT OF WALL, PROVIDE SHEATHING OR BLOCKING BETWEEN FLOOR TRUSSES AT ALL SHEARWALLS.
- 4 SHEATHING SHALL EXTEND FULL HEIGHT OF SHEARWALLS. STAGGER SHEATHING HORIZONTAL JOINTS SO THEY DO NOT FALL AT HORIZONTAL JOINT BETWEEN DOUBLE TOP PLATES.
- 5 WHEREVER THE SHEATHING OF A SHEAR WALL IS INTERRUPTED (I.E. BY AN INTERSECTING WALL) IN THE VERTICAL PLANE, THE SCHEDULED "ADD'L STUD AT END OF WALL" AND HOLDDOWN ANCHORS SHALL BE PROVIDED AT THE END OF THE SHEATHING (ONE EACH SIDE OF THE INTERRUPTION). THE QUANTITY OF SHEARWALL CALLOUTS ON THE PLANS MAY NOT ACCURATELY REFLECT THE NUMBER OF HOLDDOWNS REQUIRED BECAUSE OF THIS. THE CONTRACTOR MUST FIRST DETERMINE WHERE THE SHEARWALL SHEATHING WILL BE INTERRUPTED BEFORE DETERMINING THE NUMBER HOLDDOWNS REQUIRED.
- 6 WHERE BOLTS ARE CALLED OUT FOR HOLDDOWN ANCHORS, THE BOLTS SHALL BE THROUGH BOLTS CONFORMING TO ASTM A307.
- 7 7/16" O.S.B. MAY BE USED IN LIEU OF THE 7/16" C-DX PLYWOOD SHEATHING EXCEPT FOR ROOF TRUSS SHEATHING.
- 8 ANCHOR BOLTS SHALL HAVE 3" HOOKS. A36 ALL THREAD RODS, DRILLED AND EPOXY SET INTO FOOTINGS, MAY BE SUBSTITUTED FOR ANCHOR BOLTS CAST IN PLACE. ALL THREAD RODS SHALL HAVE SAME EMBEDMENT DEPTH AS ANCHOR BOLTS.



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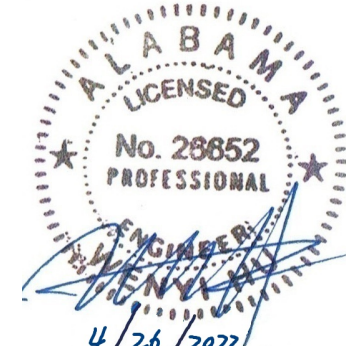
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CONSULTANT

ASE ENGINEERING SERVICES, INC.
STRUCTURAL DESIGN GROUP
TO THE BEST OF MY KNOWLEDGE, THE BUILDING DESIGN PLANS AND SPECIFICATIONS COMPLY WITH
BUILDING STRUCTURAL DESIGN CODE, THE SIGNING AND SEALING OF THE PLANS AND
SPECIFICATIONS ARE ONLY FOR THE BUILDING'S STRUCTURAL COMPONENTS AFFECTED BY WIND, LIVE
AND GRAVITY LOADS.
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Wenji Hu P.E.
Alabama No. 2689



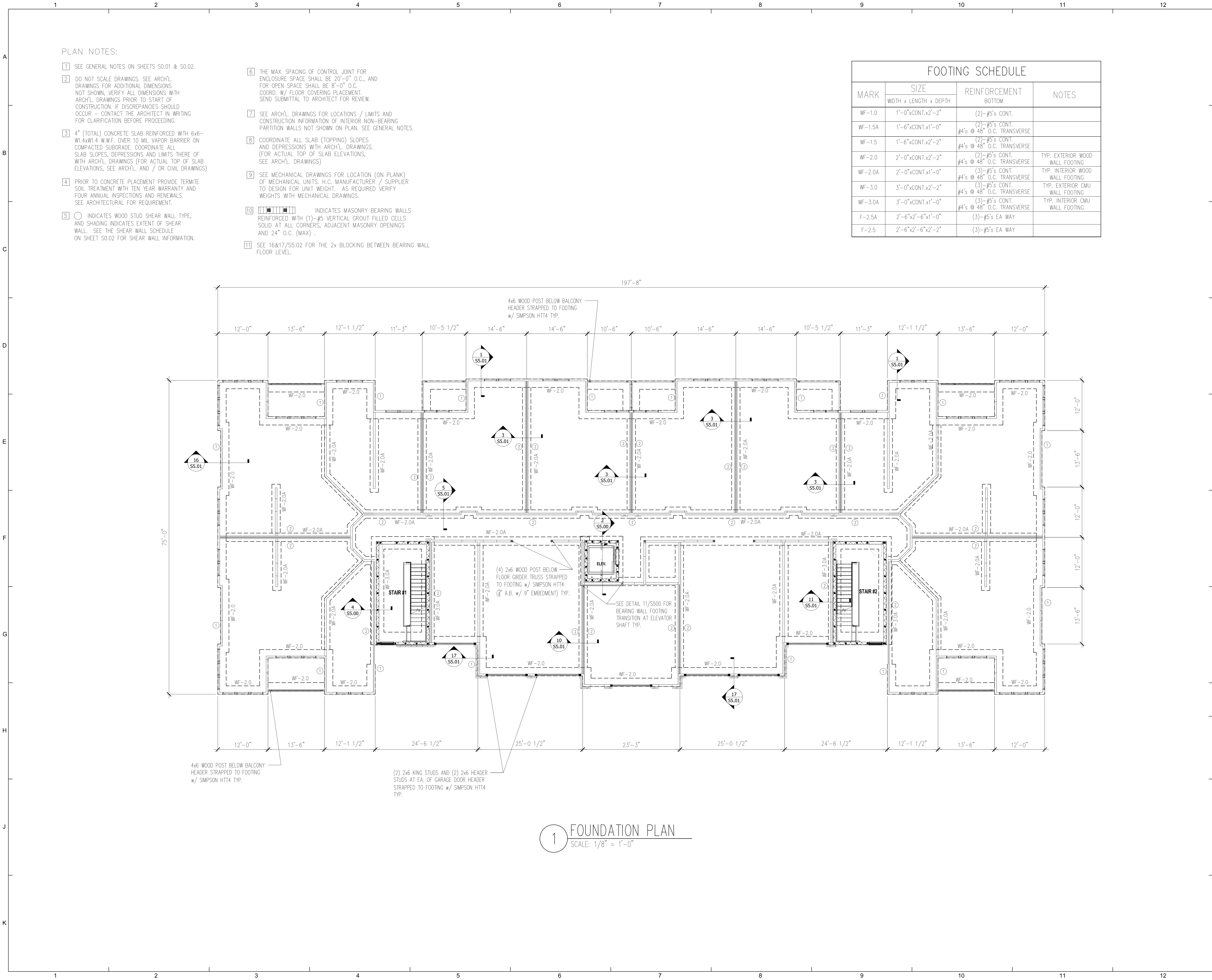
THE ROBERT
MADISON
MADISON, ALABAMA

Drawn:	CW
Checked:	CW
Approved:	MX
Date:	02-20-22
Project #:	XXX-XXX

GENERAL NOTES
BLDG TYPES A, B & C

S0.02

PLOTTED



ALABAMA DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

ISSUE HISTORY

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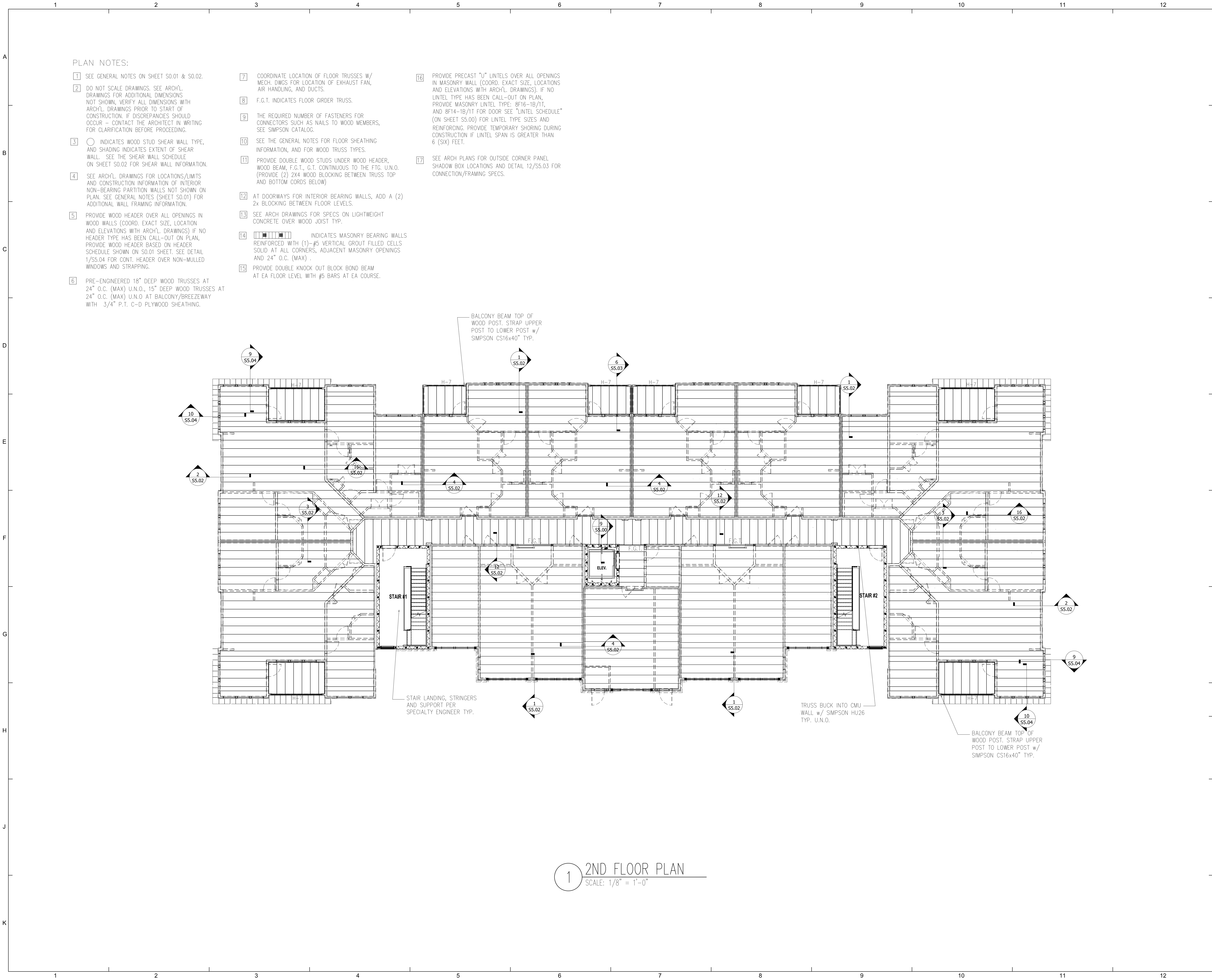
THE ROBERT MADISON
MADISON, ALABAMA

Drawn: CW
Checked: CW
Approved: MX
Date: 02-20-22
Project #: XXX-XXX

BUILDING TYPE B
FOUNDATION PLAN


S2.01

PLOTTED:



PLAN NOTES:


- SEE GENERAL NOTES ON SHEET S0.01 & S0.02.
- DO NOT SCALE DRAWINGS. SEE ARCH'L DRAWINGS FOR ADDITIONAL DIMENSIONS NOT SHOWN. VERIFY ALL DIMENSIONS WITH ARCH'L DRAWINGS PRIOR TO START OF CONSTRUCTION. IF DISCREPANCIES SHOULD OCCUR - CONTACT THE ARCHITECT IN WRITING FOR CLARIFICATION BEFORE PROCEEDING.
- INDICATES WOOD STUD SHEAR WALL TYPE, AND SHADING INDICATES EXTENT OF SHEAR WALL. SEE THE SHEAR WALL SCHEDULE ON SHEET S0.02 FOR SHEAR WALL INFORMATION.
- SEE ARCH'L DRAWINGS FOR LOCATIONS/LIMITS AND CONSTRUCTION INFORMATION OF INTERIOR NON-BEARING PARTITION WALLS NOT SHOWN ON PLAN. SEE GENERAL NOTES (SHEET S0.01) FOR ADDITIONAL WALL FRAMING INFORMATION.
- PROVIDE WOOD HEADER OVER ALL OPENINGS IN WOOD WALLS (COORD. EXACT SIZE, LOCATION AND ELEVATIONS WITH ARCH'L DRAWINGS) IF NO HEADER TYPE HAS BEEN CALL-OUT ON PLAN, PROVIDE WOOD HEADER BASED ON HEADER SCHEDULE SHOWN ON S0.01 SHEET. SEE DETAIL 1/S5.04 FOR CONT. HEADER OVER NON-MULLED WINDOWS AND STRAPPING.
- PRE-ENGINEERED 18" DEEP WOOD TRUSSES AT 24" O.C. (MAX) U.N.O., 15" DEEP WOOD TRUSSES AT 24" O.C. (MAX) U.N.O AT BALCONY/BREEZEWAY WITH 3/4" P.T. C-D PLYWOOD SHEATHING.
- COORDINATE LOCATION OF FLOOR TRUSSES W/ MECH. DWGS FOR LOCATION OF EXHAUST FAN, AIR HANDLING, AND DUCTS.
- F.G.T. INDICATES FLOOR GIRDER TRUSS.
- THE REQUIRED NUMBER OF FASTENERS FOR CONNECTORS SUCH AS NAILS TO WOOD MEMBERS, SEE SIMPSON CATALOG.
- SEE THE GENERAL NOTES FOR FLOOR SHEATHING INFORMATION, AND FOR WOOD TRUSS TYPES.
- PROVIDE DOUBLE WOOD STUDS UNDER WOOD HEADER, WOOD BEAM, F.G.T., G.T. CONTINUOUS TO THE FTG. U.N.O. (PROVIDE (2) 2X4 WOOD BLOCKING BETWEEN TRUSS TOP AND BOTTOM CORDS BELOW)
- AT DOORWAYS FOR INTERIOR BEARING WALLS, ADD A (2) 2x BLOCKING BETWEEN FLOOR LEVELS.
- SEE ARCH DRAWINGS FOR SPECS ON LIGHTWEIGHT CONCRETE OVER WOOD JOIST TYP.
- INDICATES MASONRY BEARING WALLS REINFORCED WITH (1)-#5 VERTICAL GROUT FILLED CELLS SOLID AT ALL CORNERS, ADJACENT MASONRY OPENINGS AND 24" O.C. (MAX) .
- PROVIDE DOUBLE KNOCK OUT BLOCK BOND BEAM AT EA FLOOR LEVEL WITH #5 BARS AT EA COURSE.
- PROVIDE PRECAST "U" LINTELS OVER ALL OPENINGS IN MASONRY WALL (COORD. EXACT SIZE, LOCATIONS AND ELEVATIONS WITH ARCH'L DRAWINGS). IF NO LINTEL TYPE HAS BEEN CALL-OUT ON PLAN, PROVIDE MASONRY LINTEL TYPE: 8F16-1B/1T, AND 8F14-1B/1T FOR DOOR SEE "LINTEL SCHEDULE" (ON SHEET S5.00) FOR LINTEL TYPE SIZES AND REINFORCING. PROVIDE TEMPORARY SHORING DURING CONSTRUCTION IF LINTEL SPAN IS GREATER THAN 6 (SIX) FEET.
- SEE ARCH PLANS FOR OUTSIDE CORNER PANEL SHADOW BOX LOCATIONS AND DETAIL 12/S5.03 FOR CONNECTION/FRAMING SPECS.



FLORIDA DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

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Wenli Hu P.E.
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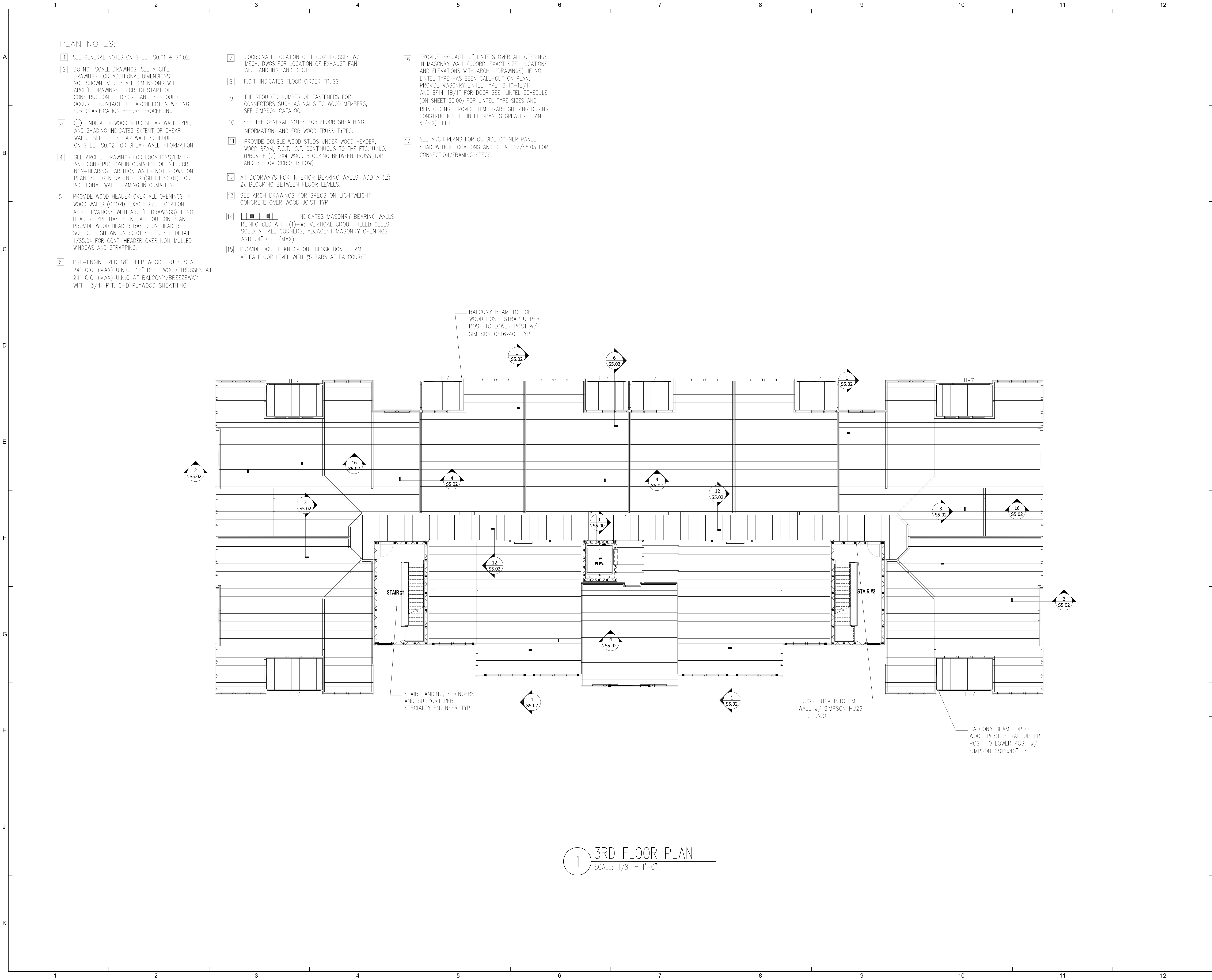
THE ROBERT MADISON	Drawn: CW
MADISON, ALABAMA	Checked: CW
	Approved: MX
	Date: 02-20-22
	Project #: XXX-XXX


BUILDING TYPE B

2nd FLOOR FRAMING PLAN

S2.02

PLOTTED:






FLORIDA DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

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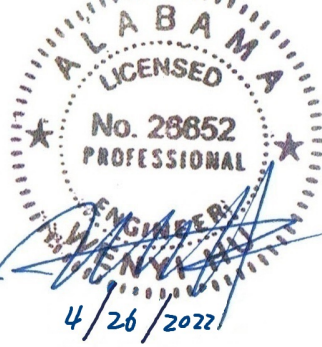
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WELL-ESTABLISHED STRUCTURAL DESIGN CODES, THE SKILL AND KNOWLEDGE OF THE FIRM AND
SPECIALIZATION AND ONE OF THE MOST REPUTABLE STRUCTURAL ENGINEERING FIRMS IN THE
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Alabama No. 26652



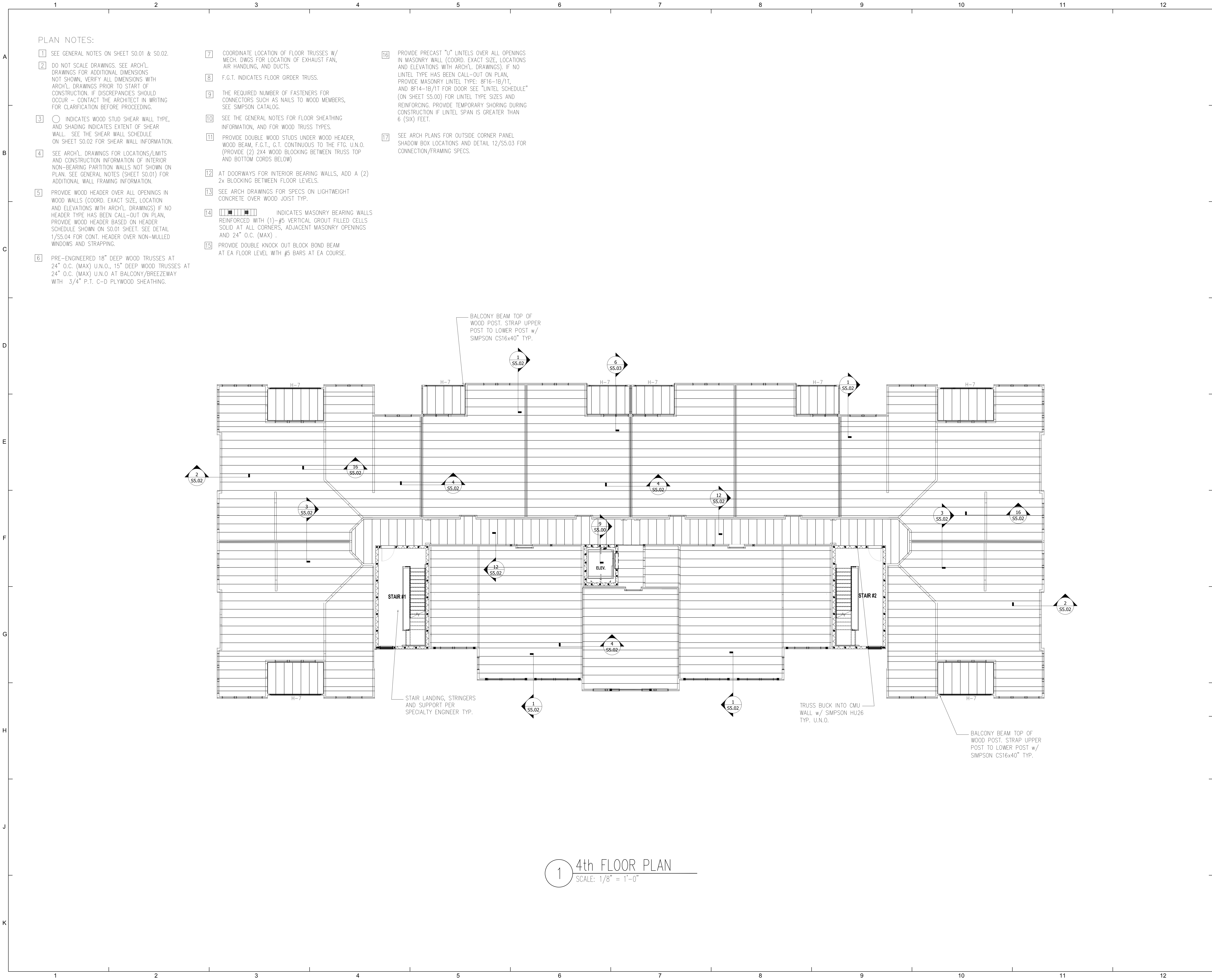
ALABAMA
No. 26652
PROFESSIONAL
4/26/2021


THE ROBERT MADISON MADISON, ALABAMA	Drawn: CW
	Checked: CW
	Approved: MX
	Date: 02-20-22
Project #: XXX-XXX	

**BUILDING TYPE B
3rd FLOOR FRAMING PLAN**

S2.03

PLOTTED:






FL 32789

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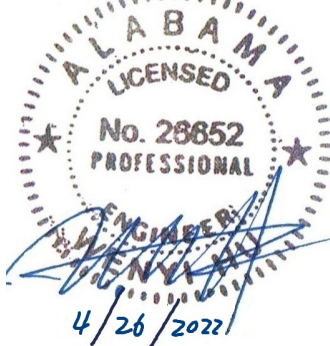
ASE ENGINEERING SERVICES, INC.

STRUCTURAL DESIGN GROUP

to the best of my knowledge, the building design plans and specifications comply with all applicable building codes, state codes, the terms and conditions of the plans and specifications and any other rules, regulations, ordinances, requirements, orders or laws.

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Wenyl Hu P.E.
Alabama No. 26852



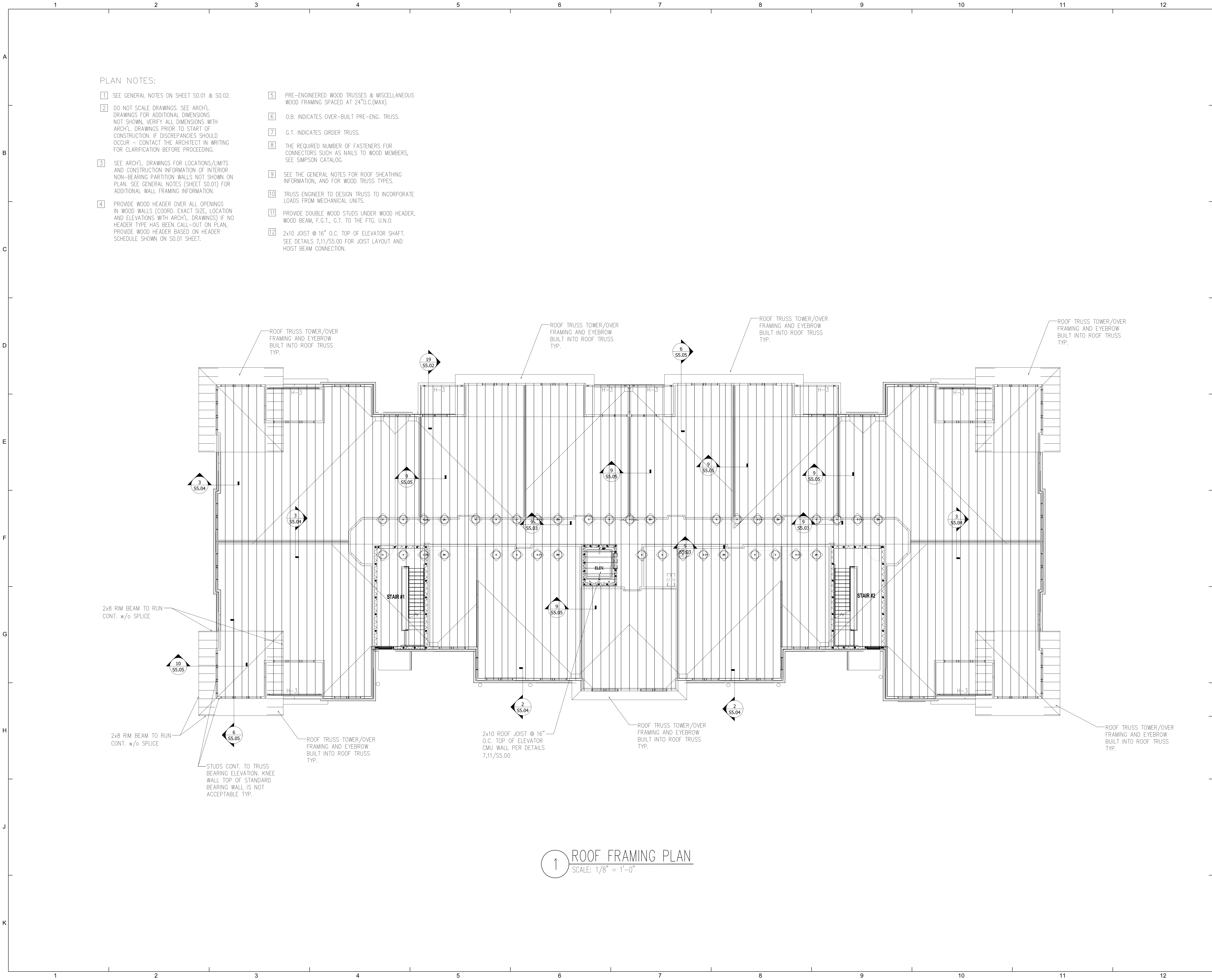
THE ROBERT MADISON MADISON, ALABAMA	Drawn: CW
	Checked: CW
Date: 02-20-22	Approval: MX
	Project #: XXX-XXX

BUILDING TYPE B

4th FLOOR FRAMING PLAN

S2.04

PLOTTED:



PLAN NOTES:

- 1

SEE GENERAL NOTES ON SHEET S0.01 & S0.02.
- 2

DO NOT SCALE DRAWINGS. SEE ARCH'L DRAWINGS FOR ADDITIONAL DIMENSIONS NOT SHOWN. VERIFY ALL DIMENSIONS WITH ARCH'L DRAWINGS PRIOR TO START OF CONSTRUCTION. IF DISCREPANCIES SHOULD OCCUR - CONTACT THE ARCHITECT IN WRITING FOR CLARIFICATION BEFORE PROCEEDING.
- 3

SEE ARCH'L DRAWINGS FOR LOCATIONS/LIMITS AND CONSTRUCTION INFORMATION OF INTERIOR NON-BEARING PARTITION WALLS NOT SHOWN ON PLAN. SEE GENERAL NOTES (SHEET S0.01) FOR ADDITIONAL WALL FRAMING INFORMATION.
- 4

PROVIDE WOOD HEADER OVER ALL OPENINGS IN WOOD WALLS (COORD. EXACT SIZE, LOCATION AND ELEVATIONS WITH ARCH'L DRAWINGS) IF NO HEADER TYPE HAS BEEN CALL-OUT ON PLAN, PROVIDE WOOD HEADER BASED ON HEADER SCHEDULE SHOWN ON S0.01 SHEET.
- 5

PRE-ENGINEERED WOOD TRUSSES & MISCELLANEOUS WOOD FRAMING SPACED AT 24"O.C.(MAX).
- 6

O.B. INDICATES OVER-BUILT PRE-ENG. TRUSS.
- 7

G.T. INDICATES GIRDER TRUSS.
- 8

THE REQUIRED NUMBER OF FASTENERS FOR CONNECTORS SUCH AS NAILS TO WOOD MEMBERS, SEE SIMPSON CATALOG.
- 9

SEE THE GENERAL NOTES FOR ROOF SHEATHING INFORMATION, AND FOR WOOD TRUSS TYPES.
- 10

TRUSS ENGINEER TO DESIGN TRUSS TO INCORPORATE LOADS FROM MECHANICAL UNITS.
- 11

PROVIDE DOUBLE WOOD STUDS UNDER WOOD HEADER, WOOD BEAM, F.G.T., G.T. TO THE FTG. U.N.O.
- 12

2x10 JOIST @ 16" O.C. TOP OF ELEVATOR SHAFT. SEE DETAILS 7,11/S5.00 FOR JOIST LAYOUT AND HOIST BEAM CONNECTION.

1 ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"



ISSUE HISTORY		
No.	Date	Description
1	04/15/22	PERMIT SUBMISSION

REVISION HISTORY		
No.	Date	Description



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CONSULTANT

ASE ENGINEERING SERVICES, INC.
STRUCTURAL DESIGN GROUP
to the best of my knowledge and belief, I am a duly licensed and registered professional engineer in the State of Alabama, and I am the author of the design and calculations shown on this plan and specification and the other parts of the project. I am not providing any services in any other state.
10244 East Colonial Drive, Suite 202
Orlando, Florida 32817 - 407-677-5545 Fax 407-730-2999
Certificate of Authorization No. 25873

Wenyl Hu P.E.
Alabama No. 26852



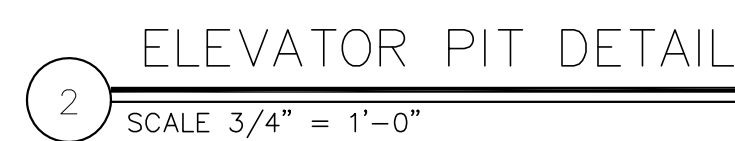
THE ROBERT MADISON
MADISON, ALABAMA
Owner: CW
Checked: CW
Approved: MX
Date: 02-20-22
Project #: XXX-XXX

**BUILDING TYPE B
ROOF FRAMING PLAN**

S2.05

PLOTTED:

3. HOLLOW LOAD BEARING UNITS SHALL BE NORMAL WEIGHT, GRADE N, TYPE 2, CONFORMING TO ASTM C90, WITH A MINIMUM NET COMPRESSIVE STRENGTH OF 1900 PSI ($f'_m = 1500$ PSI).
2. MORTAR SHALL BE TYPE M OR S, CONFORMING TO ASTM C270.
3. COURSE GROUT USED TO FILL MASONRY CELLS SHALL CONFORM TO ASTM C476 WITH A MAXIMUM AGGREGATE SIZE OF 3/8" AND A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI. AT 28 DAYS, THE GROUT SHALL BE PLACED WITH A SLUMP OF 8" TO 11". PLACE GROUT IN ACCORDANCE WITH ACI 530-11.
4. VERTICAL REINFORCEMENT SHALL BE AS NOTED ON THE DRAWINGS WITH CELLS FILLED WITH COARSE GROUT.
5. VERTICAL REINFORCEMENT SHALL BE HELD IN POSITION AT THE TOP AND BOTTOM. REINFORCEMENT SHALL BE PLACED IN THE CENTER OF THE MASONRY CELL TYPICAL UNLESS OTHERWISE NOTED. SEE TYPICAL GROUTING DETAIL FOR ADDITIONAL INFORMATION.
6. REINFORCING STEEL SHALL BE LAPPED MINIMUM 48 BAR DIAMETERS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
7. HORIZONTAL WALL REINFORCEMENT SHALL BE STANDARD TRUSS TYPE DUR-O-WAL (9 GA. SIDE X 9 GA. CROSS) @ 16" O.C., UNLESS SHOWN OTHERWISE ON DRAWINGS.
8. WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH A VERTICAL CORE, IT SHALL BE SIZED MORE THAN ONE HORIZONTAL IN SIX VERTICALS. DOWELS SHALL BE GROUTED INTO A CORE IN VERTICAL ALIGNMENT, EVEN THOUGH IT IS IN AN ADJACENT CELL TO THE VERTICAL WALL REINFORCEMENT.
9. PROVIDE PRECAST CONCRETE LINTELS OVER ALL OPENINGS UNLESS NOTED OTHERWISE ON DRAWINGS. LINTELS SHALL BE OF SUFFICIENT SIZE AND REINFORCEMENT FOR THE GIVEN SPANS AND LOADING CONDITIONS. SUBMIT SHOP DRAWINGS WITH RATED LOAD CAPACITIES TO THE ARCHITECT FOR REVIEW.
10. SPECIAL INSPECTION OF UNIT MASONRY IS REQUIRED.
11. THIS DESIGN MEETS THE REQUIREMENTS OF ACI 530.1, ASCE 7-16.
12. ALL UNIT MASONRY CONSTRUCTION SHALL COMPLY WITH FBC 2020.



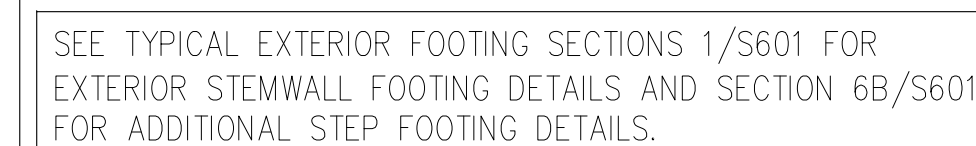
1. PROVIDE MASONRY LINTEL OVER ALL OPENINGS. IF NO LINTEL IS SPECIFIED, PROVIDE MB-2.
2. PROVIDE MINIMUM END BEARING OF 8". CUT OUT BOTTOM OF LINTEL AT END TO ALLOW CONTINUATION OF FILLED CELL REINFORCING.
3. MASONRY LINTEL SUBSTITUTIONS MUST BE APPROVED BY "ADVANCED STRUCTURAL ENGINEERING" PRIOR TO INSTALLATION.



VENEER LINTEL SCHEDULE	
MAX CLEAR SPAN "L"	STEEL VENEER LINTEL
3'-0" MAX	L4x4x1/4
4'-0" MAX	L4x4x1/4
6'-0" MAX	L5x5x5/16
11'-0" MAX	L8x5x7/16 LLV (BENT PLATE)
13'-0" MAX @ ONE STORY WALLS OR 4'-0" MAX. TALL BRICK FACING	L8x5x7/16 LLV (BENT PLATE)

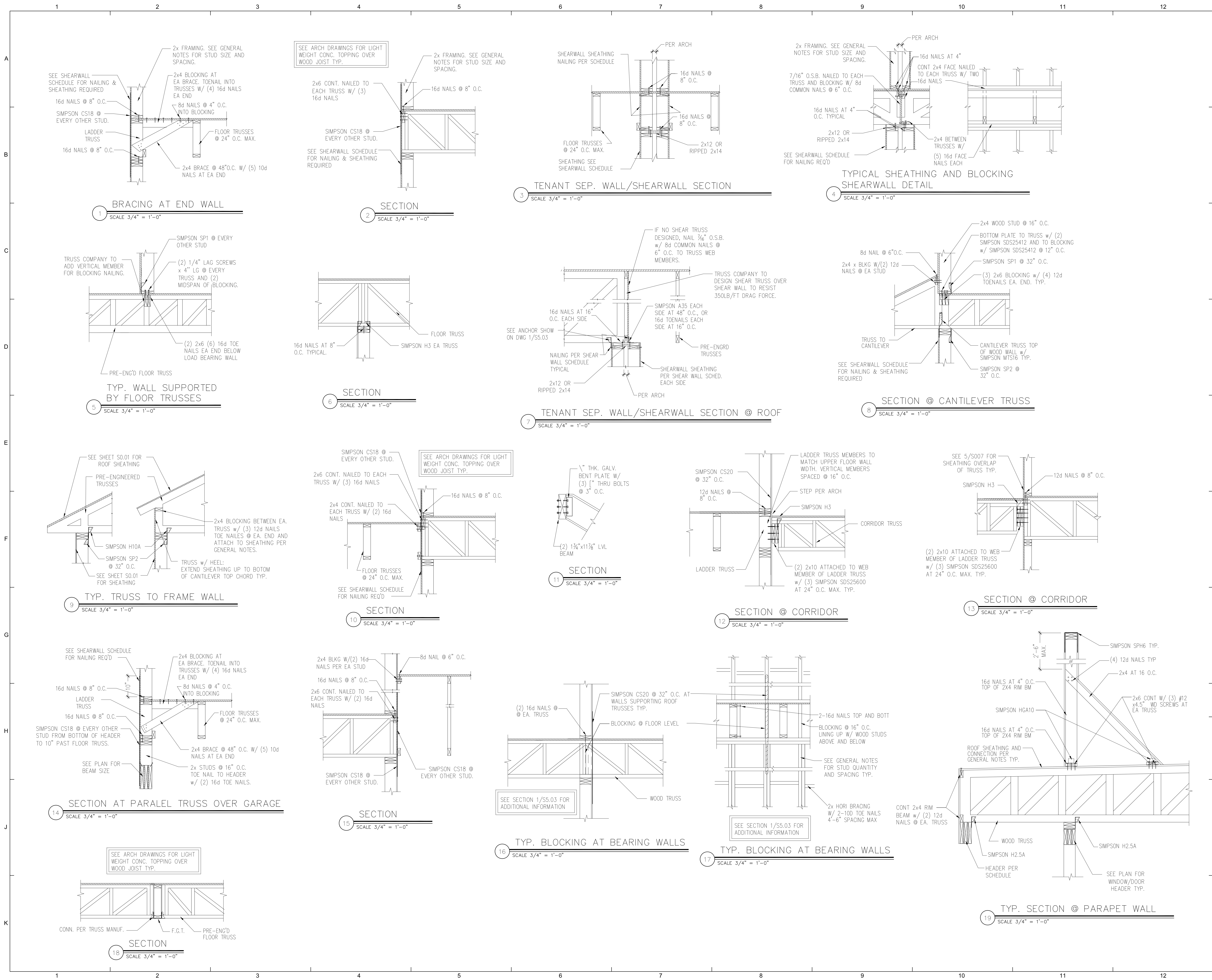



SCALE: N.T.S.



11 SCALE 3/4" = 1'-0"

\$5.00






U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

ISSUE HISTORY		
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1	04/15/22	PERMIT SUBMISSION

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No.	Date	Description



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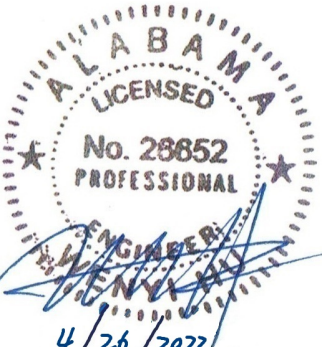
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Wenji Hu P.E.
Alabama No. 26652



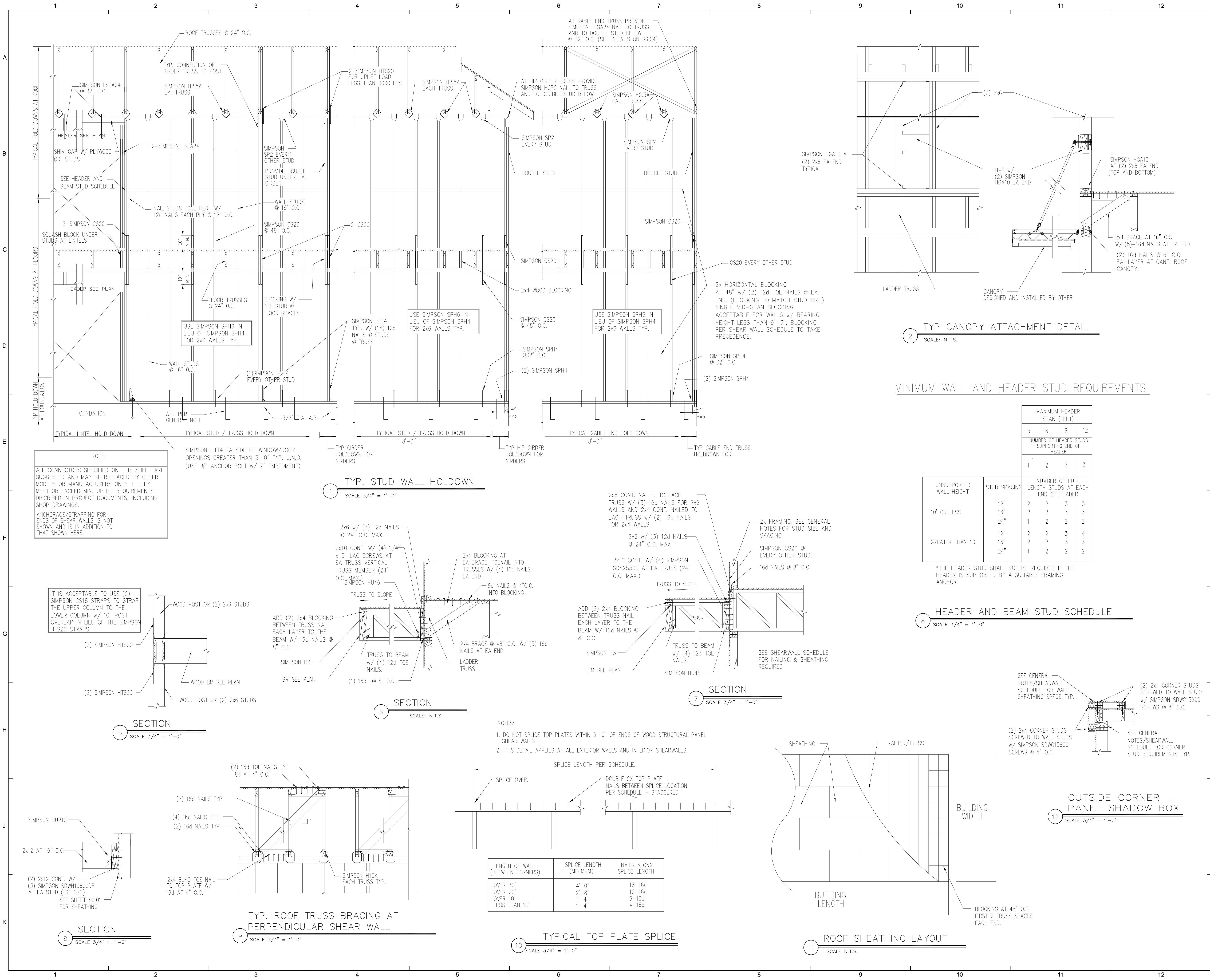
THE ROBERT MADISON	
MADISON, ALABAMA	
Drawn: CW	Checked: CW
Approved: MX	Date: 02-20-22
Project #: XXX-XXX	


SECTION AND DETAILS

BLDG TYPES A, B & C

S5.02

PLOTTED:






FLORIDA DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

ISSUE HISTORY		
No.	Date	Description
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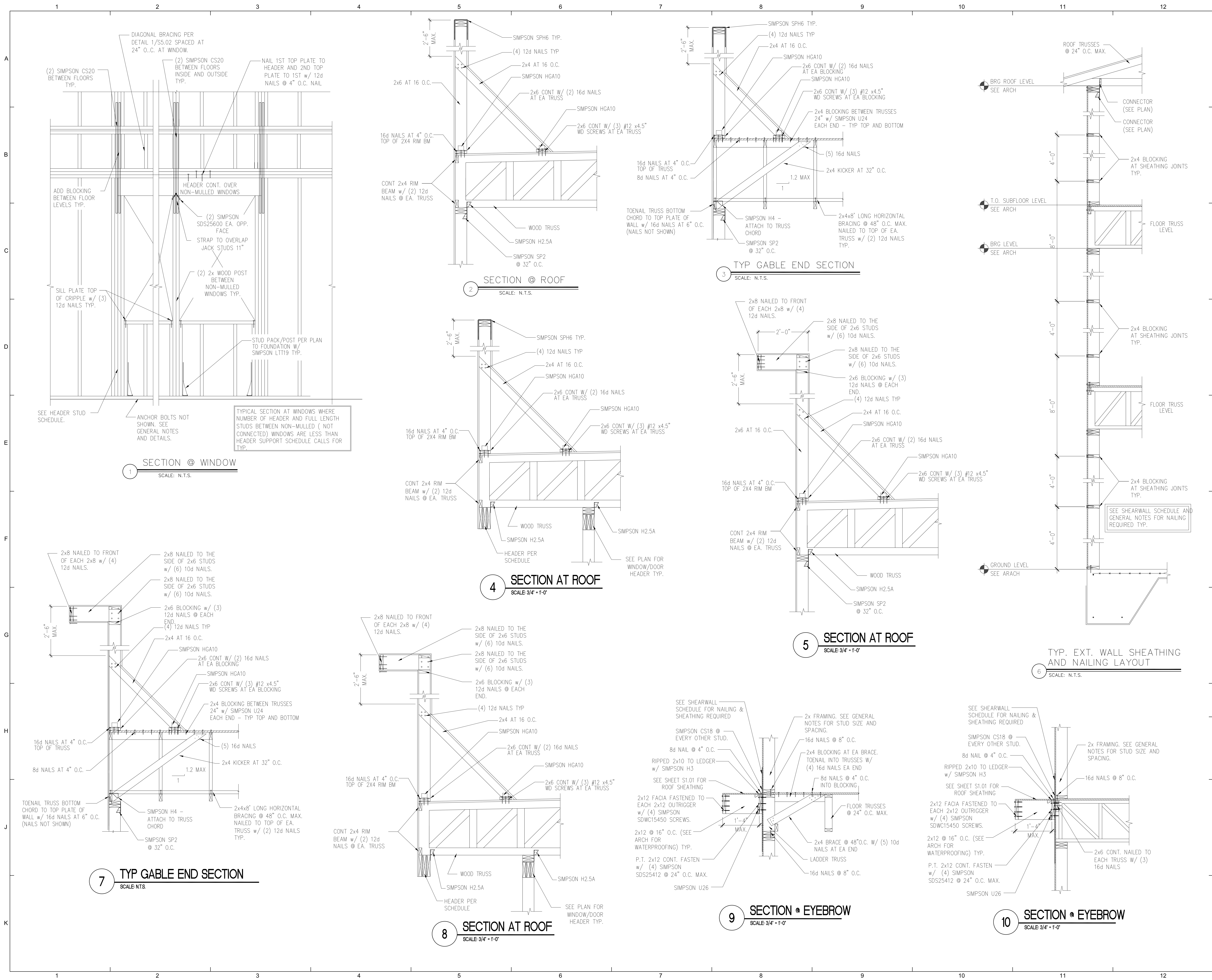
THE ROBERT MADISON	
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Approved: MX	Date: 02-20-22
MADISON, ALABAMA	Project #: XXX-XXX


SECTION AND DETAILS
BLDG TYPES A, B & C

S5.03

PLOTTED:

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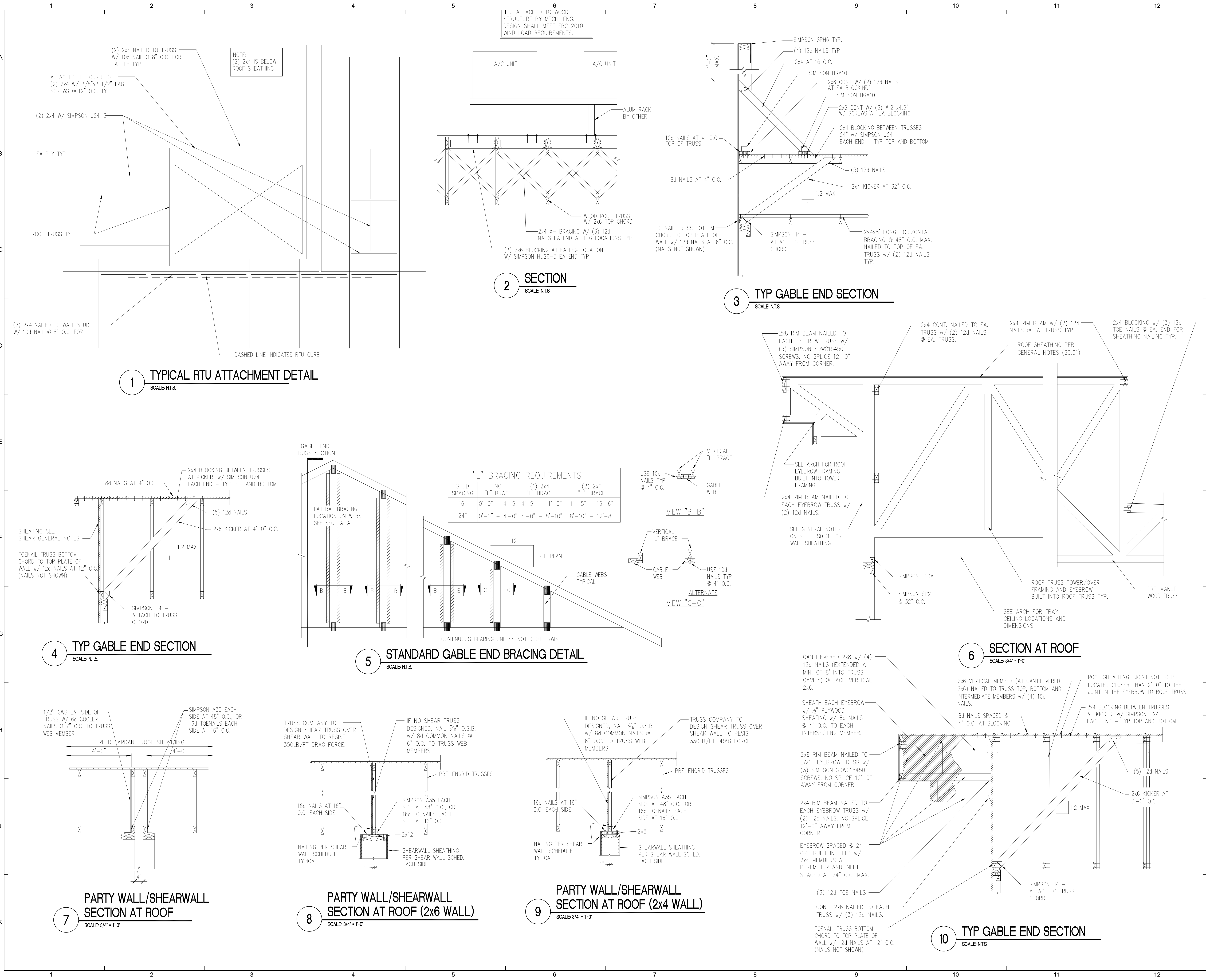
THE ROBERT MADISON
MADISON, ALABAMA


Drawn:	CW
Checked:	CW
Approved:	MX
Date:	02-20-22
Project #:	XXX-XXX

**SECTION AND DETAILS
BLDG TYPES A, B & C**

S5.04

PLOTTED:






U.S. DEPARTMENT OF HOUSING
AND URBAN DEVELOPMENT

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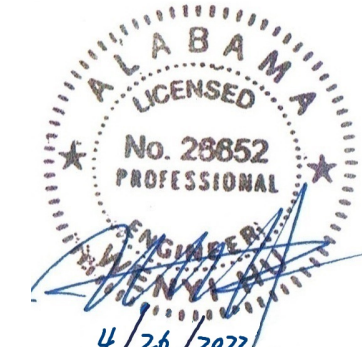
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THE ROBERT MADISON

MADISON, ALABAMA

SECTION AND DETAILS
BLDG TYPES A, B & C


S5.05

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Project #:	XXXX-XXX

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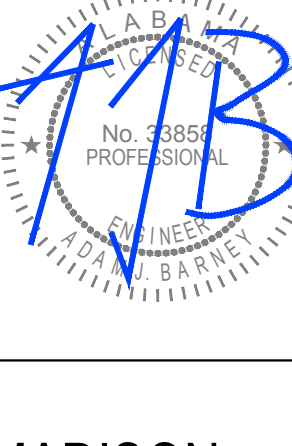
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JL & Co

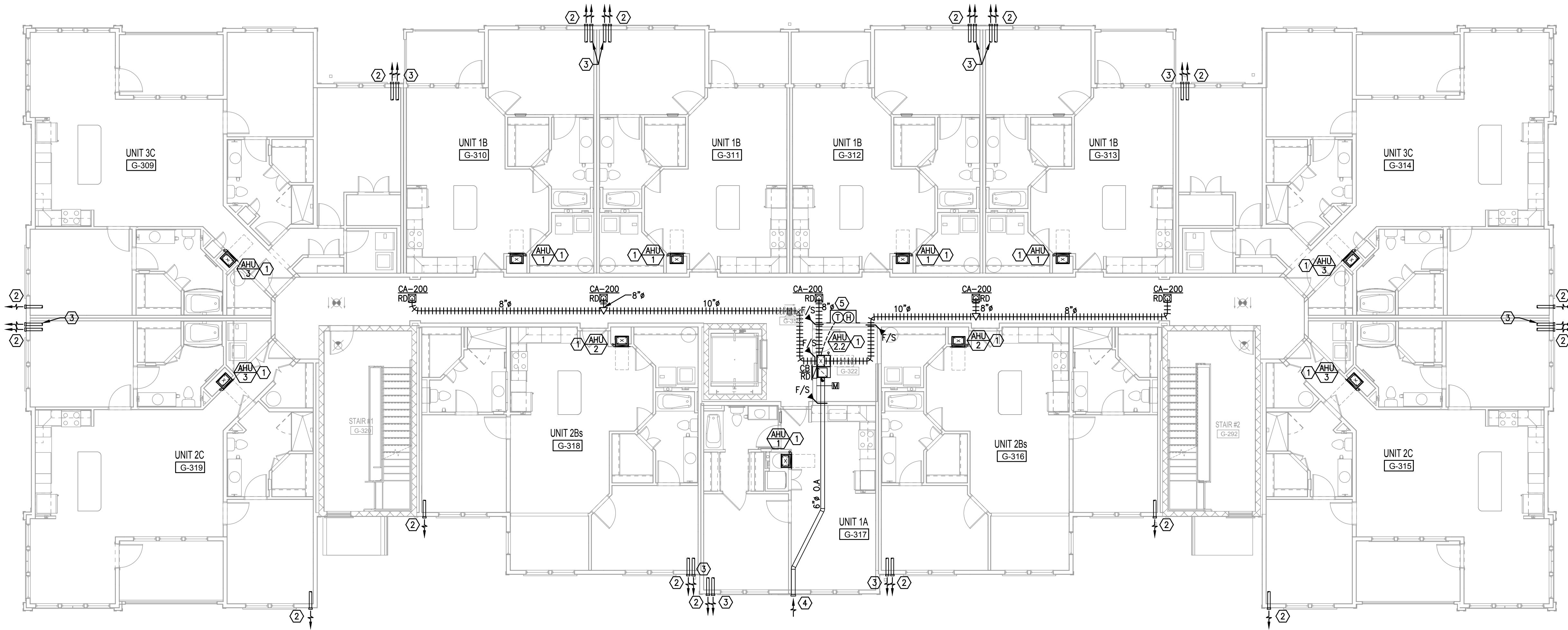
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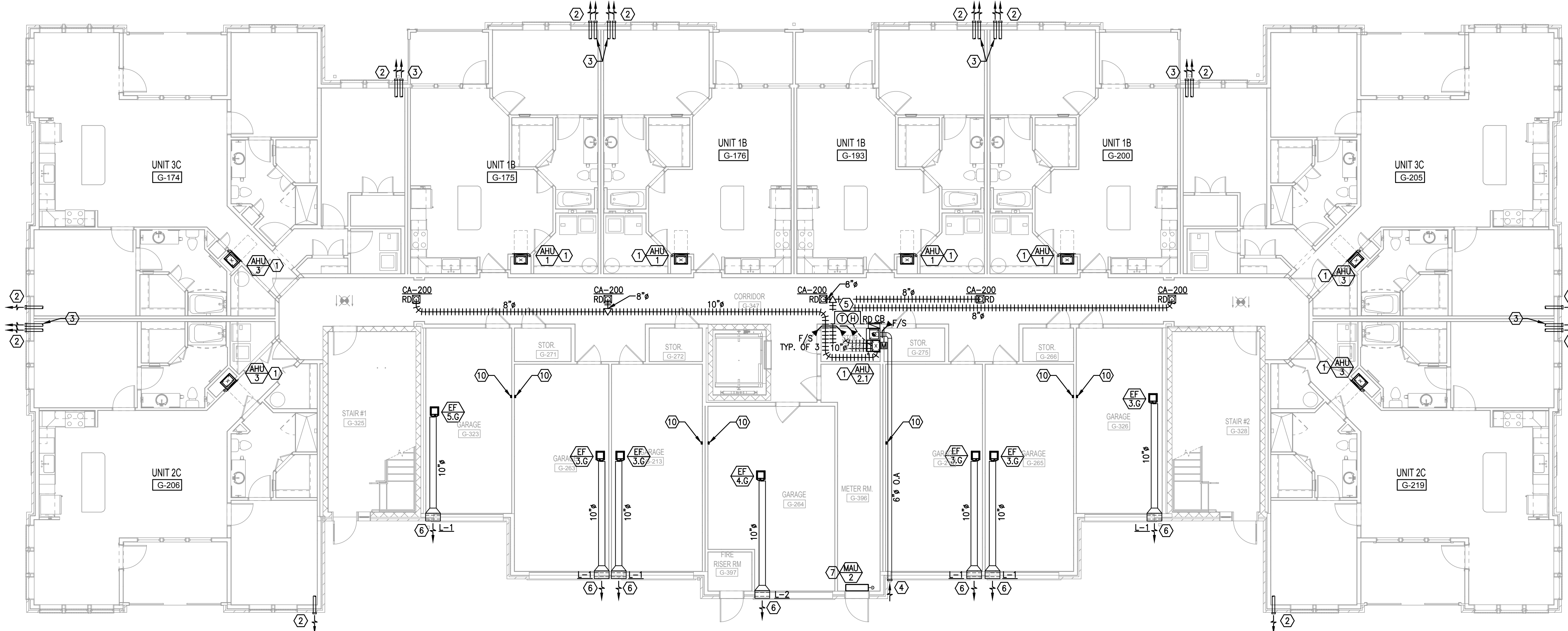
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<h2 style="text-align: center; margin: 0;">THE MADISON</h2> <p style="text-align: center; margin-top: 10px;">HUNTSVILLE, AL</p>	<table border="0" style="width: 100%;"> <tr><td>Drawn:</td><td>NJR/SMB</td></tr> <tr><td>Checked:</td><td>BLS/AJB</td></tr> <tr><td>Approved:</td><td>BLS/AJB</td></tr> <tr><td>Date:</td><td>04/15/2022</td></tr> <tr><td>Project #:</td><td>5722</td></tr> </table>	Drawn:	NJR/SMB	Checked:	BLS/AJB	Approved:	BLS/AJB	Date:	04/15/2022	Project #:	5722
Drawn:	NJR/SMB										
Checked:	BLS/AJB										
Approved:	BLS/AJB										
Date:	04/15/2022										
Project #:	5722										
<h1 style="margin: 0;">SYMBOL LEGEND & GENERAL NOTES MECHANICAL</h1>											
<h1 style="margin: 0;">M0.01</h1>											



F1 BUILDING TYPE B - 2ND LEVEL - MECHANICAL
1/8" = 1'-0"



K1 BUILDING TYPE B - GROUND LEVEL - MECHANICAL
1/8" = 1'-0"

GENERAL NOTES:

1. ALL EXHAUST OUTLETS SHALL BE FARTHER THAN 3 FEET AWAY FROM ANY OPERABLE WINDOWS.
2. INSTALL CONDENSING UNIT ON HOUSEKEEPING PAD PER DETAIL. CONDENSING UNITS TO BE INSTALLED WITH REQUIRED MANUFACTURER CLEARANCE. REFER TO OVERALL SITE PLAN FOR PROPOSED CONDENSING UNIT LOCATIONS BASED ON BUILDING SITE LOCATION.

REFERENCE NOTES: (X)

1. MOUNT AHU PER DETAIL AND ROUTE REFRIGERANT LINES WITHIN MECHANICAL CLOSET WALL DOWN THRU FLOOR AND UNDER SLAB TO GROUND MOUNTED CONDENSING UNIT. SEE PLUMBING PLANS FOR CONDENSATE DISPOSAL ROUTE REFRIGERANT LINES PER DETAIL.
2. ROUTE TOILET EXHAUST DUCT FROM WALL MOUNTED EXHAUST FAN THROUGH TRUSS SPACE TO BUILDING SIDEWALL. TERMINATE DUCT AT EXTERIOR WALL CAP WITH BIRD SCREEN PER RISER DIAGRAM. PRIME COAT AND PAINT WALL CAP TO MATCH BUILDING COLOR. SEE INDIVIDUAL UNIT PLANS FOR CONTINUATION.
3. ROUTE DRYER EXHAUST DUCT THROUGH TRUSS SPACE TO BUILDING SIDEWALL. TERMINATE DUCT AT EXTERIOR WALL CAP (NO BIRD SCREEN) PER RISER DIAGRAM. PRIME COAT AND PAINT WALL CAP TO MATCH BUILDING COLOR. SEE INDIVIDUAL UNIT PLAN FOR CONTINUATION.
4. OUTSIDE AIR DUCT. ROUTE UP TO TRUSS SPACE AND ROUTE TO EXTERIOR WALL CAP. PRIME COAT AND PAINT WALL CAP TO MATCH ADJACENT SURFACES. OUTSIDE AIR DUCT SHALL BE LOCATED A MINIMUM OF 10 FEET AWAY FROM ANY DISCHARGE AIR. PROVIDE WITH INTEGRAL BIRD SCREEN.
5. PROVIDE NEW FULLY DIGITAL 7 DAY PROGRAMMABLE TYPE THERMOSTAT/HUMIDISTAT WITH AUTO CHANGE OVER AND AUTO SET BACK. MOUNT THERMOSTAT IN MECHANICAL ROOM. MOUNT TEMPERATURE SENSOR IN CORRIDOR 48" ABOVE FINISHED FLOOR. PROVIDE WITH CLEAR ACRYLIC LOCKING COVER.
6. ROUTE EXHAUST DUCT FROM CEILING MOUNTED EXHAUST FANS THROUGH TRUSS SPACE TO BUILDING SIDEWALL. TERMINATE DUCT AT EXTERIOR WALL LOUVER. PRIME COAT AND PAINT WALL CAP TO MATCH BUILDING COLOR.
7. MOUNT MAU IN METER ROOM ABOVE DOOR. ROUTE REFRIGERANT LINES IN WALL DOWN THRU FLOOR(S) AND UNDER SLAB TO CONDENSING UNIT. ROUTE CONDENSATE DRAIN LINE DOWN WALL AND OUT TO GRASSY AREA PER DETAIL. PROVIDE CONDENSATE PUMP EQUAL TO BLUE DIAMOND X87-721 IF REQUIRED. CONDENSATE PUMP MUST BE ACCESSIBLE.
8. ROUTE REFRIGERANT LINES FROM GROUND MOUNTED CONDENSING UNITS UNDER SLAB AND UP INTERIOR WALL TO AIR HANDLERS ON 2ND, 3RD AND 4TH FLOORS.
9. INSTALL CONDENSING UNIT AND HOUSEKEEPING PAD PER DETAIL. COORDINATE CONDENSING UNIT LOCATIONS WITH OWNER.
10. PROVIDE HARD WIRED 120V CARBON MONOXIDE MONITOR EQUAL TO FIRST ALERT.



ISSUE HISTORY

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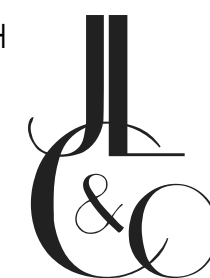
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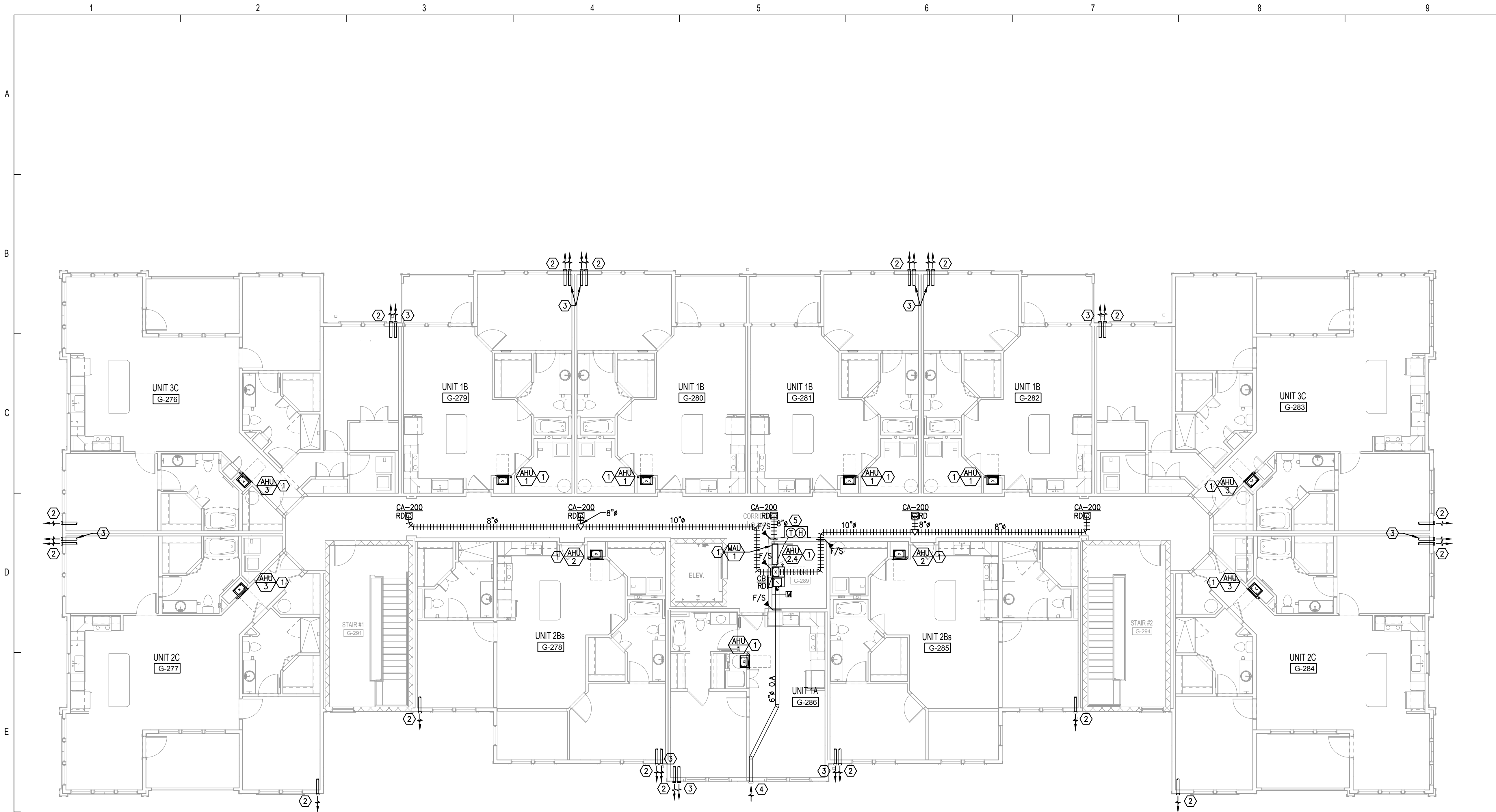
THE MADISON

HUNTSVILLE, AL

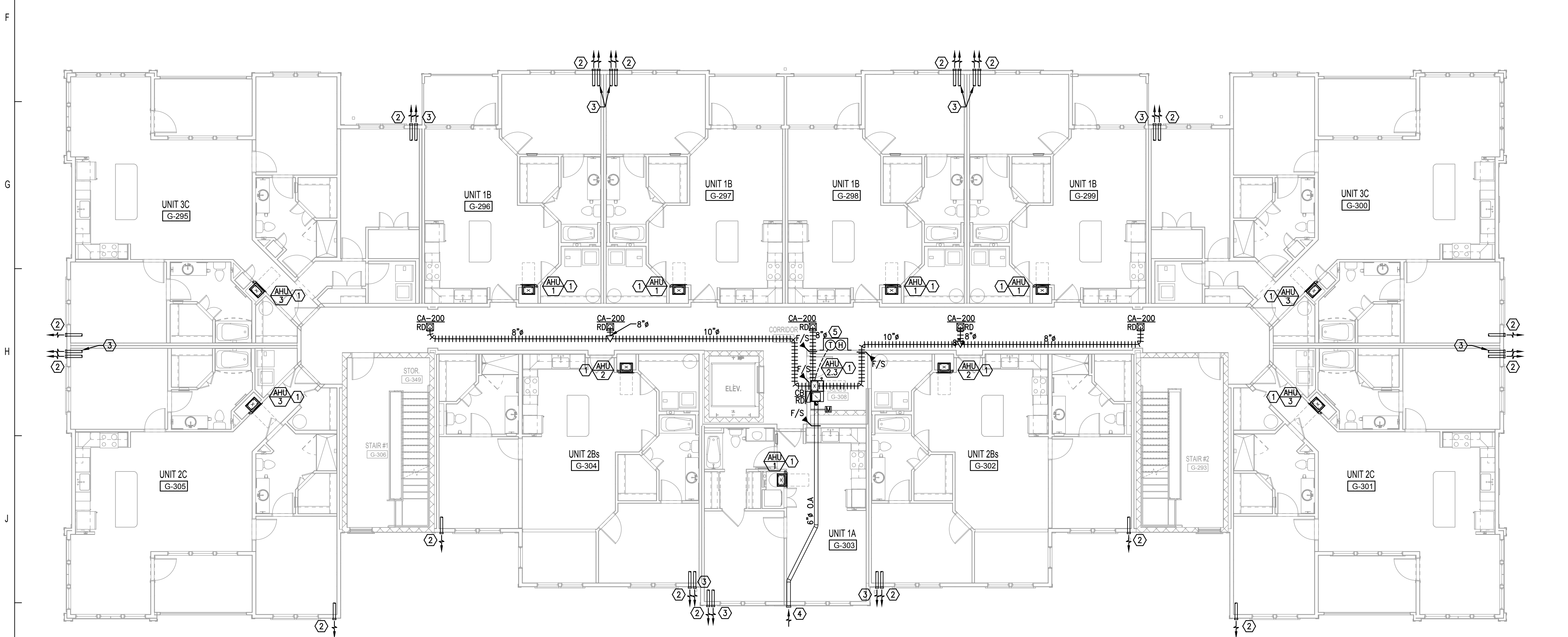
**BUILDING TYPE B
GROUND & 2ND LEVEL
MECHANICAL**

M2.04

Drawn:	MJS/MB
Checked:	BLS/AB
Approved:	BLS/AB
Date:	04/15/2022
Project #:	5722



F1 BUILDING TYPE B - 4TH LEVEL - MECHANICAL
1/8" = 1'-0"



K1 BUILDING TYPE B - 3RD LEVEL - MECHANICAL
1/8" = 1'-0"

GENERAL NOTES:

1. ALL EXHAUST OUTLETS SHALL BE FARTHER THAN 3 FEET AWAY FROM ANY OPERABLE WINDOWS.
2. INSTALL CONDENSING UNIT ON HOUSEKEEPING PAD PER DETAIL. CONDENSING UNITS TO BE INSTALLED WITH REQUIRED MANUFACTURER CLEARANCE. REFER TO OVERALL SITE PLAN FOR PROPOSED CONDENSING UNIT LOCATIONS BASED ON BUILDING SITE LOCATION.

REFERENCE NOTES: (X)

- 1 MOUNT AHU PER DETAIL AND ROUTE REFRIGERANT LINES WITHIN MECHANICAL CLOSET WALL DOWN THRU FLOOR AND UNDER SLAB TO GROUND MOUNTED CONDENSING UNIT. SEE PLUMBING PLANS FOR CONDENSATE DISPOSAL ROUTE REFRIGERANT LINES PER DETAIL.
- 2 ROUTE TOILET EXHAUST DUCT FROM WALL MOUNTED EXHAUST FAN THROUGH TRUSS SPACE TO BUILDING SIDEWALL. TERMINATE DUCT AT EXTERIOR WALL CAP WITH BIRD SCREEN PER RISER DIAGRAM. PRIME COAT AND PAINT WALL CAP TO MATCH BUILDING COLOR. SEE INDIVIDUAL UNIT PLANS FOR CONTINUATION.
- 3 ROUTE DRYER EXHAUST DUCT THROUGH TRUSS SPACE TO BUILDING SIDEWALL. TERMINATE DUCT AT EXTERIOR WALL CAP (NO BIRD SCREEN) PER RISER DIAGRAM. PRIME COAT AND PAINT WALL CAP TO MATCH BUILDING COLOR. SEE INDIVIDUAL UNIT PLAN FOR CONTINUATION.
- 4 OUTSIDE AIR DUCT. ROUTE UP TO TRUSS SPACE AND ROUTE TO EXTERIOR WALL CAP. PRIME COAT AND PAINT WALL CAP TO MATCH ADJACENT SURFACES. OUTSIDE AIR DUCT SHALL BE LOCATED A MINIMUM OF 10 FEET AWAY FROM ANY DISCHARGE AIR. PROVIDE WITH INTEGRAL BIRD SCREEN.
- 5 PROVIDE NEW FULLY DIGITAL 7 DAY PROGRAMMABLE TYPE THERMOSTAT/HUMIDISTAT WITH AUTO CHANGE OVER AND AUTO SET BACK. MOUNT THERMOSTAT IN MECHANICAL ROOM. MOUNT TEMPERATURE SENSOR IN CORRIDOR 48" ABOVE FINISHED FLOOR. PROVIDE WITH CLEAR ACRYLIC LOCKING COVER.
- 6 MOUNT MAU IN ELEC/IT ROOM ABOVE DOOR. ROUTE REFRIGERANT LINES IN WALL DOWN THRU FLOOR(S) AND UNDER SLAB TO CONDENSING UNIT. ROUTE CONDENSATE DRAIN LINE DOWN WALL AND OUT TO GRASSY AREA PER DETAIL. PROVIDE CONDENSATE PUMP EQUAL TO BLUEDIAMOND X87-721 IF REQUIRED. CONDENSATE PUMP MUST BE ACCESSIBLE.



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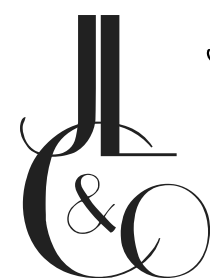
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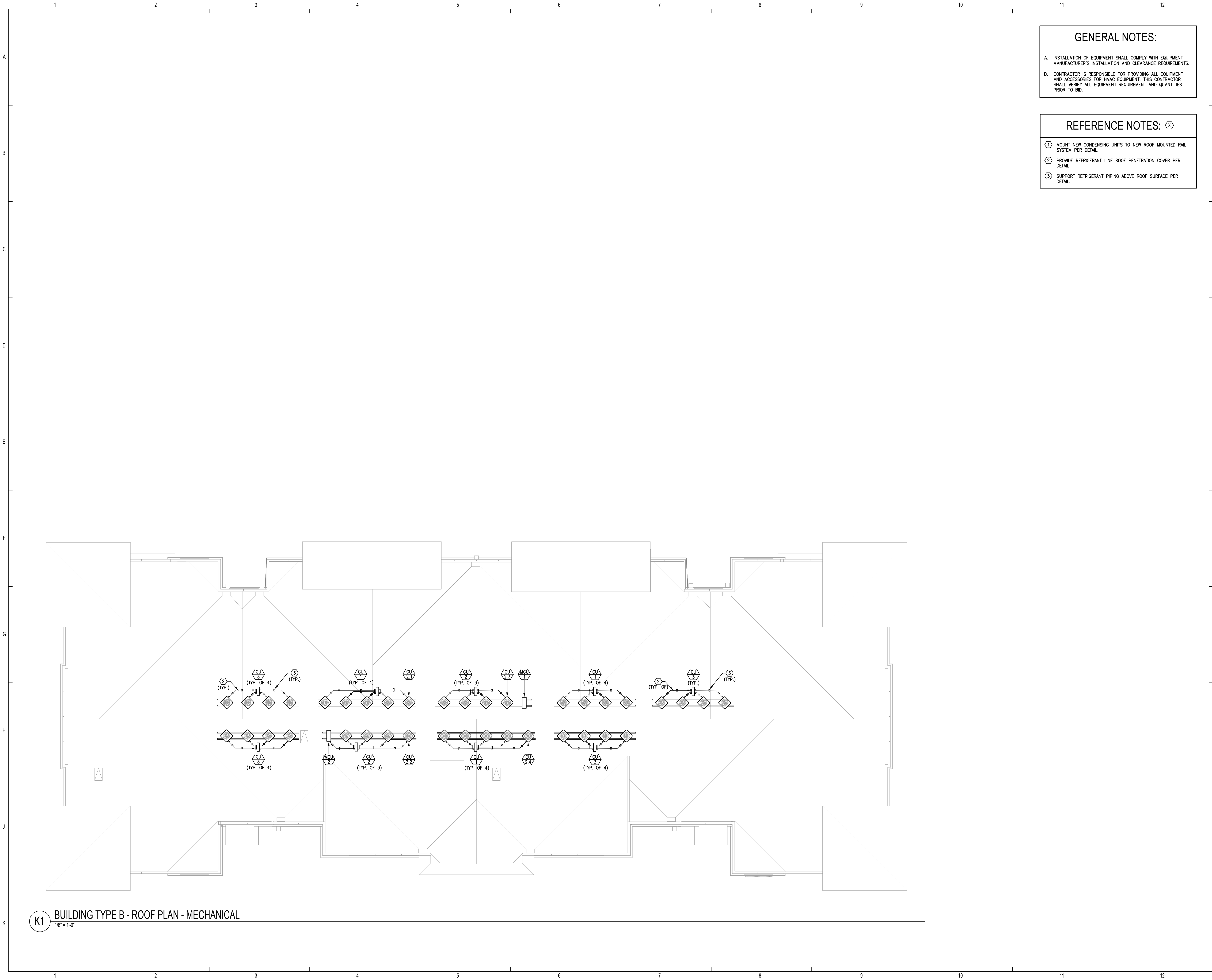
THE MADISON

HUNTSVILLE, AL

BUILDING TYPE B
3RD & 4TH LEVEL
MECHANICAL

M2.05

Drawn:	MJRSMB
Checked:	BLSAJB
Approved:	BLSAJB
Date:	04/15/2022
Project #:	5722



K1 BUILDING TYPE B - ROOF PLAN - MECHANICAL
1/8" = 1'-0"

GENERAL NOTES:

A. INSTALLATION OF EQUIPMENT SHALL COMPLY WITH EQUIPMENT MANUFACTURER'S INSTALLATION AND CLEARANCE REQUIREMENTS.


B. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL EQUIPMENT AND ACCESSORIES FOR HVAC EQUIPMENT. THIS CONTRACTOR SHALL VERIFY ALL EQUIPMENT REQUIREMENT AND QUANTITIES PRIOR TO BID.

REFERENCE NOTES: (X)

① MOUNT NEW CONDENSING UNITS TO NEW ROOF MOUNTED RAIL SYSTEM PER DETAIL.

② PROVIDE REFRIGERANT LINE ROOF PENETRATION COVER PER DETAIL.


③ SUPPORT REFRIGERANT PIPING ABOVE ROOF SURFACE PER DETAIL.



ALABAMA DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

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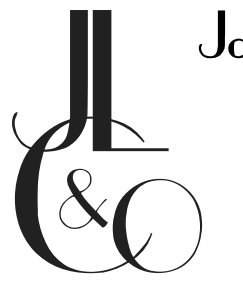
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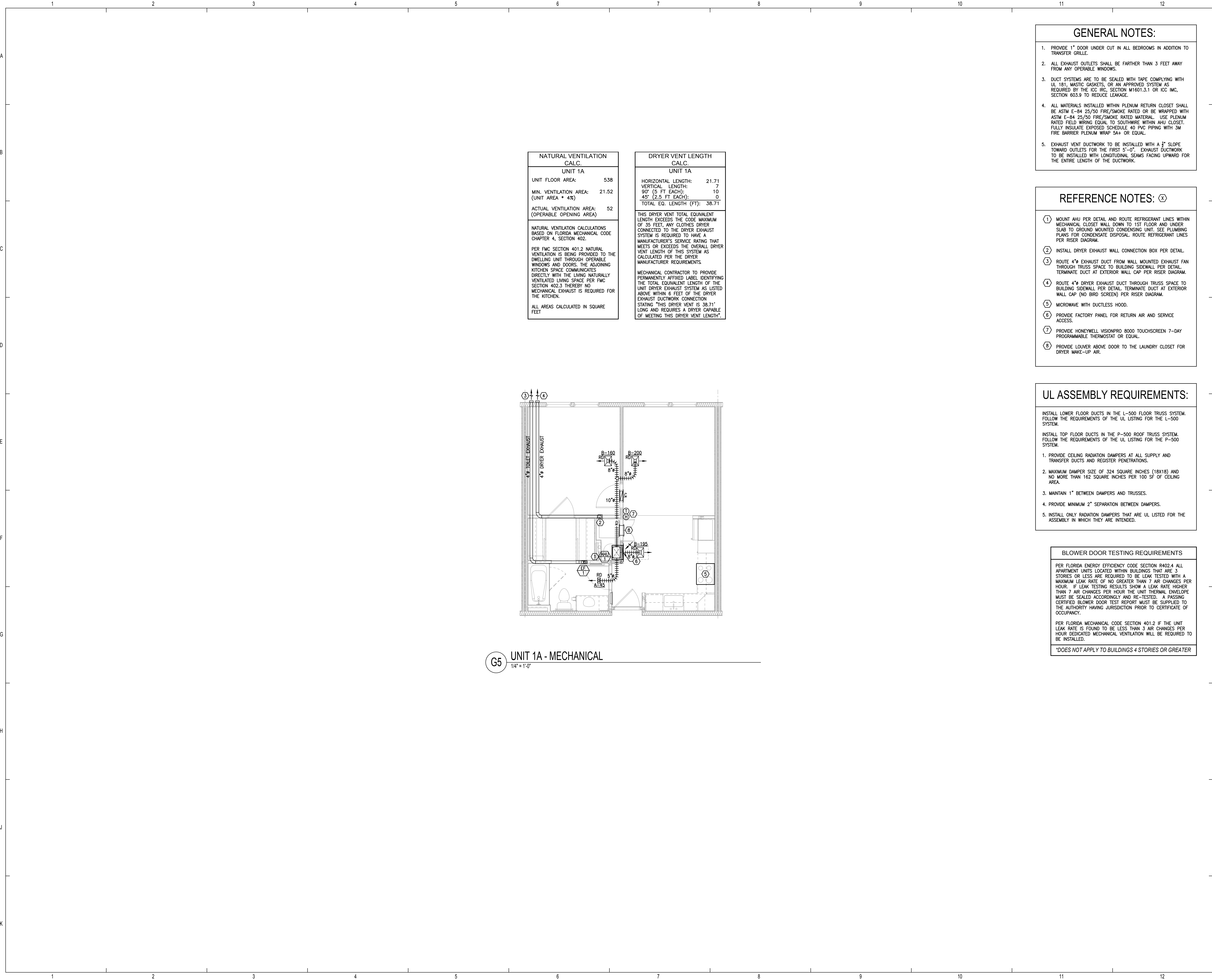
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THE MADISON		HUNTSVILLE, AL	
Drawn	MJS/MB	Drawn	MJS/MB
Checked	BLSA/B	Checked	BLSA/B
Approved	BLSA/B	Approved	BLSA/B
Date	04/15/2022	Date	04/15/2022
Project #	572	Project #	572

BUILDING TYPE B
ROOF PLAN
MECHANICAL

M2.06



NATURAL VENTILATION CALC.	DRYER VENT LENGTH CALC.
UNIT 1A	UNIT 1A
UNIT FLOOR AREA: 538	HORIZONTAL LENGTH: 21.71
MIN. VENTILATION AREA: 21.52 (UNIT AREA * 4%)	VERTICAL LENGTH: 7
	90° (5 FT EACH): 10
	45° (2.5 FT EACH): 0
	TOTAL EQ. LENGTH (FT): 38.71
NATURAL VENTILATION CALCULATIONS BASED ON FLORIDA MECHANICAL CODE CHAPTER 4, SECTION 402.	THIS DRYER VENT TOTAL EQUIVALENT LENGTH EXCEEDS THE CODE MAXIMUM OF 35 FEET, ANY CLOTHES DRYER CONNECTED TO THE DRYER EXHAUST SYSTEM IS REQUIRED TO HAVE A MANUFACTURER'S SERVICE RATING THAT MEETS OR EXCEEDS THE OVERALL DRYER VENT LENGTH OF THIS SYSTEM AS CALCULATED PER THE DRYER MANUFACTURER REQUIREMENTS.
PER FMC SECTION 401.2 NATURAL VENTILATION IS BEING PROVIDED TO THE DWELLING UNIT THROUGH OPERABLE WINDOWS AND DOORS. THE ADJOINING KITCHEN SPACE COMMUNICATES DIRECTLY WITH THE LIVING NATURALLY VENTILATED LIVING SPACE PER FMC SECTION 402.3 THEREBY NO MECHANICAL EXHAUST IS REQUIRED FOR THE KITCHEN.	MECHANICAL CONTRACTOR TO PROVIDE PERMANENTLY AFFIXED LABEL IDENTIFYING THE TOTAL EQUIVALENT LENGTH OF THE UNIT DRYER EXHAUST SYSTEM AS LISTED ABOVE WITHIN 6 FEET OF THE DRYER EXHAUST DUCTWORK CONNECTION STATING "THIS DRYER VENT IS 38.71' LONG AND REQUIRES A DRYER CAPABLE OF MEETING THIS DRYER VENT LENGTH".
ALL AREAS CALCULATED IN SQUARE FEET	


- GENERAL NOTES:**
1. PROVIDE 1" DOOR UNDER CUT IN ALL BEDROOMS IN ADDITION TO TRANSFER GRILLE.
 2. ALL EXHAUST OUTLETS SHALL BE FARTHER THAN 3 FEET AWAY FROM ANY OPERABLE WINDOWS.
 3. DUCT SYSTEMS ARE TO BE SEALED WITH TAPE COMPLYING WITH UL 181, MASTIC GASKETS, OR AN APPROVED SYSTEM AS REQUIRED BY THE ICC IRC, SECTION M1601.3.1 OR ICC IMC, SECTION 603.9 TO REDUCE LEAKAGE.
 4. ALL MATERIALS INSTALLED WITHIN PLENUM RETURN CLOSET SHALL BE ASTM E-84 25/50 FIRE/SMOKE RATED OR BE WRAPPED WITH ASTM E-84 25/50 FIRE/SMOKE RATED MATERIAL. USE PLENUM RATED FIELD WIRING EQUAL TO SOUTHWIRE WITHIN AHU CLOSET. FULLY INSULATE EXPOSED SCHEDULE 40 PVC PIPING WITH 3M FIRE BARRIER PLENUM WRAP 5A+ OR EQUAL.
 5. EXHAUST VENT DUCTWORK TO BE INSTALLED WITH A 1/4" SLOPE TOWARD OUTLETS FOR THE FIRST 5'-0". EXHAUST DUCTWORK TO BE INSTALLED WITH LONGITUDINAL SEAMS FACING UPWARD FOR THE ENTIRE LENGTH OF THE DUCTWORK.

- REFERENCE NOTES: (X)**
- ① MOUNT AHU PER DETAIL AND ROUTE REFRIGERANT LINES WITHIN MECHANICAL CLOSET WALL DOWN TO 1ST FLOOR AND UNDER SLAB TO GROUND MOUNTED CONDENSING UNIT. SEE PLUMBING PLANS FOR CONDENSATE DISPOSAL. ROUTE REFRIGERANT LINES PER RISER DIAGRAM.
 - ② INSTALL DRYER EXHAUST WALL CONNECTION BOX PER DETAIL.
 - ③ ROUTE 4" EXHAUST DUCT FROM WALL MOUNTED EXHAUST FAN THROUGH TRUSS SPACE TO BUILDING SIDEWALL PER DETAIL. TERMINATE DUCT AT EXTERIOR WALL CAP PER RISER DIAGRAM.
 - ④ ROUTE 4" DRYER EXHAUST DUCT THROUGH TRUSS SPACE TO BUILDING SIDEWALL PER DETAIL. TERMINATE DUCT AT EXTERIOR WALL CAP (NO BIRD SCREEN) PER RISER DIAGRAM.
 - ⑤ MICROWAVE WITH DUCTLESS HOOD.
 - ⑥ PROVIDE FACTORY PANEL FOR RETURN AIR AND SERVICE ACCESS.
 - ⑦ PROVIDE HONEYWELL VISIONPRO 8000 TOUCHSCREEN 7-DAY PROGRAMMABLE THERMOSTAT OR EQUAL.
 - ⑧ PROVIDE LOUVER ABOVE DOOR TO THE LAUNDRY CLOSET FOR DRYER MAKE-UP AIR.

- UL ASSEMBLY REQUIREMENTS:**
- INSTALL LOWER FLOOR DUCTS IN THE L-500 FLOOR TRUSS SYSTEM. FOLLOW THE REQUIREMENTS OF THE UL LISTING FOR THE L-500 SYSTEM.
- INSTALL TOP FLOOR DUCTS IN THE P-500 ROOF TRUSS SYSTEM. FOLLOW THE REQUIREMENTS OF THE UL LISTING FOR THE P-500 SYSTEM.
1. PROVIDE CEILING RADIATION DAMPERS AT ALL SUPPLY AND TRANSFER DUCTS AND REGISTER PENETRATIONS.
 2. MAXIMUM DAMPER SIZE OF 324 SQUARE INCHES (18X18) AND NO MORE THAN 162 SQUARE INCHES PER 100 SF OF CEILING AREA.
 3. MAINTAIN 1" BETWEEN DAMPERS AND TRUSSES.
 4. PROVIDE MINIMUM 2" SEPARATION BETWEEN DAMPERS.
 5. INSTALL ONLY RADIATION DAMPERS THAT ARE UL LISTED FOR THE ASSEMBLY IN WHICH THEY ARE INTENDED.

- BLOWER DOOR TESTING REQUIREMENTS**
- PER FLORIDA ENERGY EFFICIENCY CODE SECTION R402.4 ALL APARTMENT UNITS LOCATED WITHIN BUILDINGS THAT ARE 3 STORIES OR LESS ARE REQUIRED TO BE LEAK TESTED WITH A MAXIMUM LEAK RATE OF NO GREATER THAN 7 AIR CHANGES PER HOUR. IF LEAK TESTING RESULTS SHOW A LEAK RATE HIGHER THAN 7 AIR CHANGES PER HOUR THE UNIT THERMAL ENVELOPE MUST BE SEALED ACCORDINGLY AND RE-TESTED. A PASSING CERTIFIED BLOWER DOOR TEST REPORT MUST BE SUPPLIED TO THE AUTHORITY HAVING JURISDICTION PRIOR TO CERTIFICATE OF OCCUPANCY.
- PER FLORIDA MECHANICAL CODE SECTION 401.2 IF THE UNIT LEAK RATE IS FOUND TO BE LESS THAN 3 AIR CHANGES PER HOUR DEDICATED MECHANICAL VENTILATION WILL BE REQUIRED TO BE INSTALLED.
- *DOES NOT APPLY TO BUILDINGS 4 STORIES OR GREATER


G5 UNIT 1A - MECHANICAL
1/4" = 1'-0"



ALABAMA DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

ISSUE HISTORY		
No.	Date	Description
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REVISION HISTORY		
No.	Date	Description



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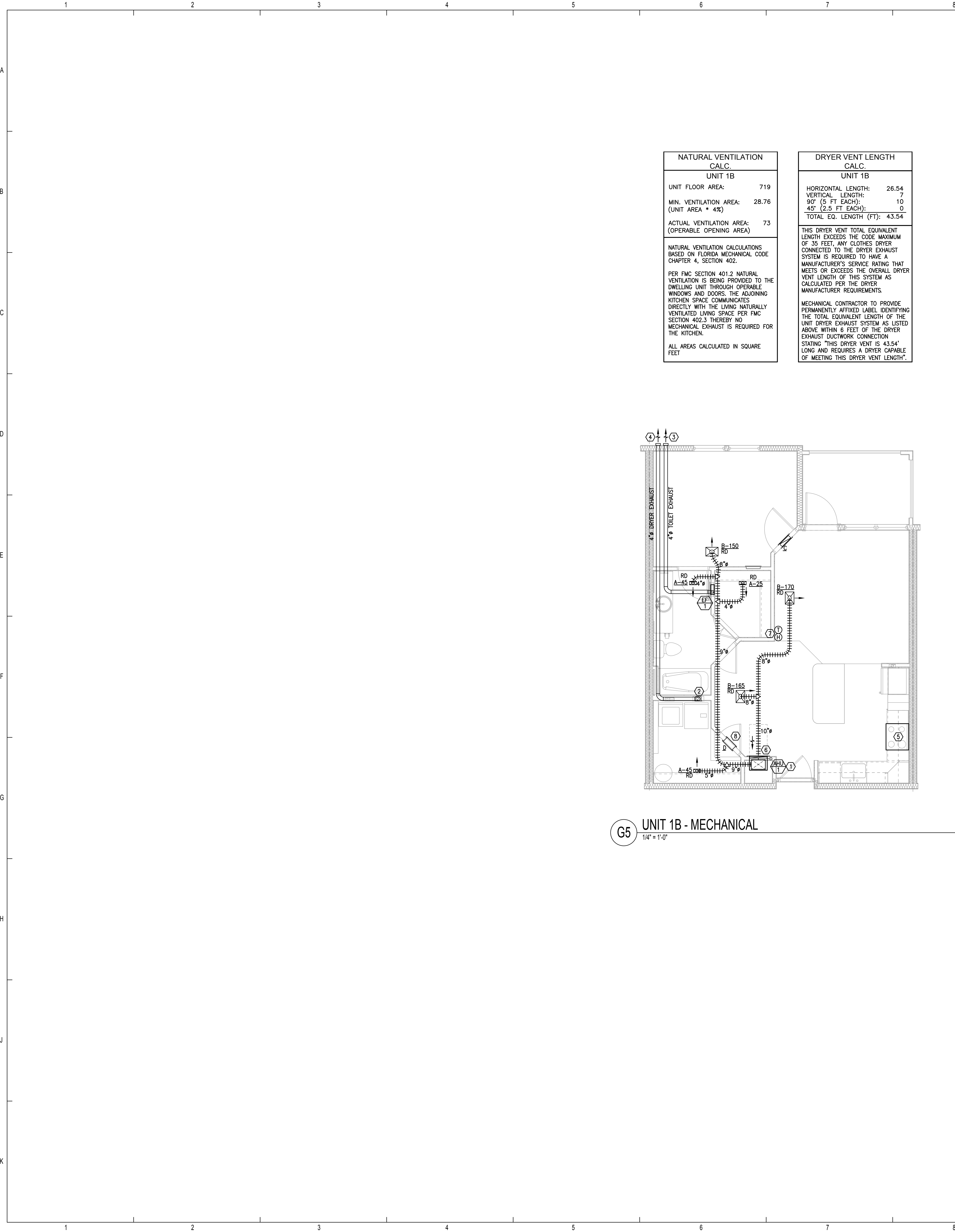


THE MADISON HUNTSVILLE, AL	Drawn: MJS/MB
	Checked: BLSA/B
	Approved: BLSA/B
	Date: 04/15/2022
	Project #: 5722

**ENLARGED UNIT PLANS
MECHANICAL**

M3.01

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NATURAL VENTILATION CALC.	
UNIT 1B	
UNIT FLOOR AREA:	719
MIN. VENTILATION AREA: (UNIT AREA * 4%)	28.76
ACTUAL VENTILATION AREA: (OPERABLE OPENING AREA)	73
NATURAL VENTILATION CALCULATIONS BASED ON FLORIDA MECHANICAL CODE CHAPTER 4, SECTION 402.	
PER FMC SECTION 401.2 NATURAL VENTILATION IS BEING PROVIDED TO THE DWELLING UNIT THROUGH OPERABLE WINDOWS AND DOORS. THE ADJOINING KITCHEN SPACE COMMUNICATES DIRECTLY WITH THE LIVING NATURALLY VENTILATED LIVING SPACE PER FMC SECTION 402.3 THEREBY NO MECHANICAL EXHAUST IS REQUIRED FOR THE KITCHEN.	
ALL AREAS CALCULATED IN SQUARE FEET	

DRYER VENT LENGTH CALC.	
UNIT 1B	
HORIZONTAL LENGTH:	26.54
VERTICAL LENGTH:	7
90° (5 FT EACH):	10
45° (2.5 FT EACH):	0
TOTAL EQ. LENGTH (FT):	43.54
THIS DRYER VENT TOTAL EQUIVALENT LENGTH EXCEEDS THE CODE MAXIMUM OF 35 FEET. ANY CLOTHES DRYER CONNECTED TO THE DRYER EXHAUST SYSTEM IS REQUIRED TO HAVE A MANUFACTURER'S SERVICE RATING THAT MEETS OR EXCEEDS THE OVERALL DRYER VENT LENGTH OF THIS SYSTEM AS CALCULATED PER THE DRYER MANUFACTURER REQUIREMENTS.	
MECHANICAL CONTRACTOR TO PROVIDE PERMANENTLY AFFIXED LABEL IDENTIFYING THE TOTAL EQUIVALENT LENGTH OF THE UNIT DRYER EXHAUST SYSTEM AS LISTED ABOVE WITHIN 6 FEET OF THE DRYER EXHAUST DUCTWORK CONNECTION STATING "THIS DRYER VENT IS 43.54' LONG AND REQUIRES A DRYER CAPABLE OF MEETING THIS DRYER VENT LENGTH".	


G5 UNIT 1B - MECHANICAL
1/4" = 1'-0"

- ### GENERAL NOTES:
1. PROVIDE 1" DOOR UNDER CUT IN ALL BEDROOMS IN ADDITION TO TRANSFER GRILLE.
 2. ALL EXHAUST OUTLETS SHALL BE FARTHER THAN 3 FEET AWAY FROM ANY OPERABLE WINDOWS.
 3. DUCT SYSTEMS ARE TO BE SEALED WITH TAPE COMPLYING WITH UL 181, MASTIC GASKETS, OR AN APPROVED SYSTEM AS REQUIRED BY THE ICC IRC, SECTION M1601.3.1 OR ICC IMC, SECTION 603.9 TO REDUCE LEAKAGE.
 4. ALL MATERIALS INSTALLED WITHIN PLENUM RETURN CLOSET SHALL BE ASTM E-84 25/50 FIRE/SMOKE RATED OR BE WRAPPED WITH ASTM E-84 25/50 FIRE/SMOKE RATED MATERIAL. USE PLENUM RATED FIELD WIRING EQUAL TO SOUTHWIRE WITHIN AHU CLOSET. FULLY INSULATE EXPOSED SCHEDULE 40 PVC PIPING WITH 3M FIRE BARRIER PLENUM WRAP 5A+ OR EQUAL.
 5. EXHAUST VENT DUCTWORK TO BE INSTALLED WITH A 1/2" SLOPE TOWARD OUTLETS FOR THE FIRST 5'-0". EXHAUST DUCTWORK TO BE INSTALLED WITH LONGITUDINAL SEAMS FACING UPWARD FOR THE ENTIRE LENGTH OF THE DUCTWORK.

- ### REFERENCE NOTES: (X)
- ① MOUNT AHU PER DETAIL AND ROUTE REFRIGERANT LINES WITHIN MECHANICAL CLOSET WALL DOWN TO 1ST FLOOR AND UNDER SLAB TO GROUND MOUNTED CONDENSING UNIT. SEE PLUMBING PLANS FOR CONDENSATE DISPOSAL. ROUTE REFRIGERANT LINES PER RISER DIAGRAM.
 - ② INSTALL DRYER EXHAUST WALL CONNECTION BOX PER DETAIL.
 - ③ ROUTE 4"Ø EXHAUST DUCT FROM WALL MOUNTED EXHAUST FAN THROUGH TRUSS SPACE TO BUILDING SIDEWALL PER DETAIL. TERMINATE DUCT AT EXTERIOR WALL CAP PER RISER DIAGRAM.
 - ④ ROUTE 4"Ø DRYER EXHAUST DUCT THROUGH TRUSS SPACE TO BUILDING SIDEWALL PER DETAIL. TERMINATE DUCT AT EXTERIOR WALL CAP (NO BIRD SCREEN) PER RISER DIAGRAM.
 - ⑤ MICROWAVE WITH DUCTLESS HOOD.
 - ⑥ PROVIDE FACTORY PANEL FOR RETURN AIR AND SERVICE ACCESS.
 - ⑦ PROVIDE HONEYWELL VISIONPRO 8000 TOUCHSCREEN 7-DAY PROGRAMMABLE THERMOSTAT OR EQUAL.
 - ⑧ PROVIDE LOUVER ABOVE DOOR TO THE LAUNDRY CLOSET FOR DRYER MAKE-UP AIR.


- ### UL ASSEMBLY REQUIREMENTS:
- INSTALL LOWER FLOOR DUCTS IN THE L-500 FLOOR TRUSS SYSTEM. FOLLOW THE REQUIREMENTS OF THE UL LISTING FOR THE L-500 SYSTEM.
- INSTALL TOP FLOOR DUCTS IN THE P-500 ROOF TRUSS SYSTEM. FOLLOW THE REQUIREMENTS OF THE UL LISTING FOR THE P-500 SYSTEM.
1. PROVIDE CEILING RADIATION DAMPERS AT ALL SUPPLY AND TRANSFER DUCTS AND REGISTER PENETRATIONS.
 2. MAXIMUM DAMPER SIZE OF 324 SQUARE INCHES (18X18) AND NO MORE THAN 162 SQUARE INCHES PER 100 SF OF CEILING AREA.
 3. MAINTAIN 1" BETWEEN DAMPERS AND TRUSSES.
 4. PROVIDE MINIMUM 2" SEPARATION BETWEEN DAMPERS.
 5. INSTALL ONLY RADIATION DAMPERS THAT ARE UL LISTED FOR THE ASSEMBLY IN WHICH THEY ARE INTENDED.

- ### BLOWER DOOR TESTING REQUIREMENTS
- PER FLORIDA ENERGY EFFICIENCY CODE SECTION R402.4 ALL APARTMENT UNITS LOCATED WITHIN BUILDINGS THAT ARE 3 STORIES OR LESS ARE REQUIRED TO BE LEAK TESTED WITH A MAXIMUM LEAK RATE OF NO GREATER THAN 7 AIR CHANGES PER HOUR. IF LEAK TESTING RESULTS SHOW A LEAK RATE HIGHER THAN 7 AIR CHANGES PER HOUR THE UNIT THERMAL ENVELOPE MUST BE SEALED ACCORDINGLY AND RE-TESTED. A PASSING CERTIFIED BLOWER DOOR TEST REPORT MUST BE SUPPLIED TO THE AUTHORITY HAVING JURISDICTION PRIOR TO CERTIFICATE OF OCCUPANCY.
- PER FLORIDA MECHANICAL CODE SECTION 401.2 IF THE UNIT LEAK RATE IS FOUND TO BE LESS THAN 3 AIR CHANGES PER HOUR DEDICATED MECHANICAL VENTILATION WILL BE REQUIRED TO BE INSTALLED.
- *DOES NOT APPLY TO BUILDINGS 4 STORIES OR GREATER



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REVISION HISTORY		
No.	Date	Description



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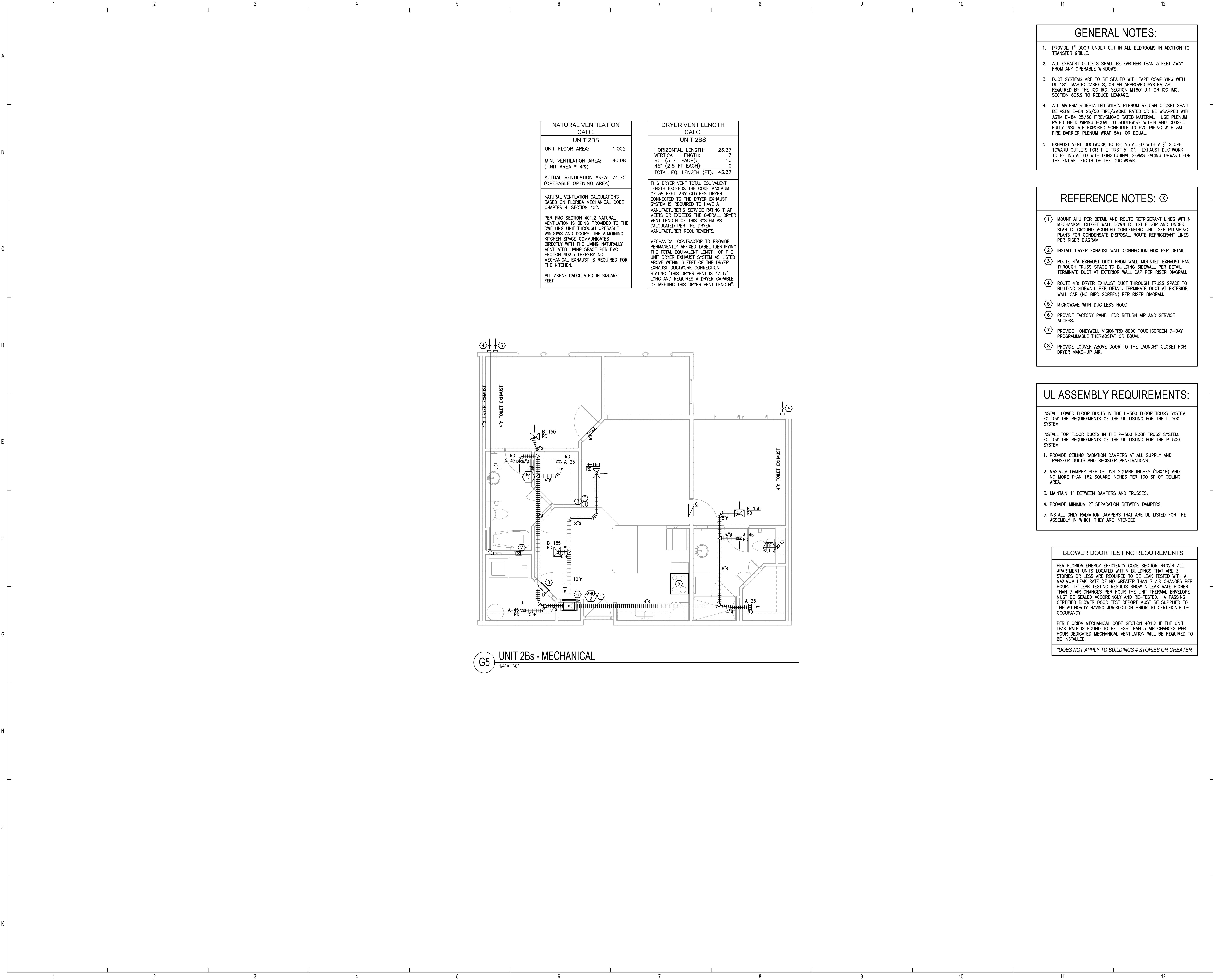


THE MADISON	Drawn:	MJRSMB
	Checked:	BLSAJB
	Approved:	BLSAJB
	Date:	04/15/2022
	Project #:	5722

HUNTSVILLE, AL

ENLARGED UNIT PLANS
MECHANICAL

M3.02



NATURAL VENTILATION CALC.	
UNIT 2BS	
UNIT FLOOR AREA:	1,002
MIN. VENTILATION AREA: (UNIT AREA * 4%)	40.08
ACTUAL VENTILATION AREA: (OPERABLE OPENING AREA)	74.75
NATURAL VENTILATION CALCULATIONS BASED ON FLORIDA MECHANICAL CODE CHAPTER 4, SECTION 402.	
PER FMC SECTION 401.2 NATURAL VENTILATION IS BEING PROVIDED TO THE DWELLING UNIT THROUGH OPERABLE WINDOWS AND DOORS. THE ADJOINING KITCHEN SPACE COMMUNICATES DIRECTLY WITH THE LIVING NATURALLY VENTILATED LIVING SPACE. PER FMC SECTION 402.3 THEREBY NO MECHANICAL EXHAUST IS REQUIRED FOR THE KITCHEN.	
ALL AREAS CALCULATED IN SQUARE FEET	

DRYER VENT LENGTH CALC.	
UNIT 2BS	
HORIZONTAL LENGTH:	26.37
VERTICAL LENGTH:	7
90° (5 FT EACH):	10
45° (2.5 FT EACH):	0
TOTAL EQ. LENGTH (FT):	43.37
THIS DRYER VENT TOTAL EQUIVALENT LENGTH EXCEEDS THE CODE MAXIMUM OF 35 FEET. ANY CLOTHES DRYER CONNECTED TO THE DRYER EXHAUST SYSTEM IS REQUIRED TO HAVE A MANUFACTURER'S SERVICE RATING THAT MEETS OR EXCEEDS THE OVERALL DRYER VENT LENGTH OF THIS SYSTEM AS CALCULATED PER THE DRYER MANUFACTURER REQUIREMENTS.	
MECHANICAL CONTRACTOR TO PROVIDE PERMANENTLY AFFIXED LABEL IDENTIFYING THE TOTAL EQUIVALENT LENGTH OF THE UNIT DRYER EXHAUST SYSTEM AS LISTED ABOVE WITHIN 6 FEET OF THE DRYER EXHAUST DUCTWORK CONNECTION STATING "THIS DRYER VENT IS 43.37' LONG AND REQUIRES A DRYER CAPABLE OF MEETING THIS DRYER VENT LENGTH".	

- ### GENERAL NOTES:
- PROVIDE 1" DOOR UNDER CUT IN ALL BEDROOMS IN ADDITION TO TRANSFER GRILLE.
 - ALL EXHAUST OUTLETS SHALL BE FARTHER THAN 3 FEET AWAY FROM ANY OPERABLE WINDOWS.
 - DUCT SYSTEMS ARE TO BE SEALED WITH TAPE COMPLYING WITH UL 181, MASTIC GASKETS, OR AN APPROVED SYSTEM AS REQUIRED BY THE ICC IRC, SECTION M1601.3.1 OR ICC IMC, SECTION 603.9 TO REDUCE LEAKAGE.
 - ALL MATERIALS INSTALLED WITHIN PLENUM RETURN CLOSET SHALL BE ASTM E-84 25/50 FIRE/SMOKE RATED OR BE WRAPPED WITH ASTM E-84 25/50 FIRE/SMOKE RATED MATERIAL. USE PLENUM RATED FIELD WIRING EQUAL TO SOUTHWIRE WITHIN AHU CLOSET. FULLY INSULATE EXPOSED SCHEDULE 40 PVC PIPING WITH 3M FIRE BARRIER PLENUM WRAP 5A+ OR EQUAL.
 - EXHAUST VENT DUCTWORK TO BE INSTALLED WITH A 1/4" SLOPE TOWARD OUTLETS FOR THE FIRST 5'-0". EXHAUST DUCTWORK TO BE INSTALLED WITH LONGITUDINAL SEAMS FACING UPWARD FOR THE ENTIRE LENGTH OF THE DUCTWORK.

- ### REFERENCE NOTES: (X)
- MOUNT AHU PER DETAIL AND ROUTE REFRIGERANT LINES WITHIN MECHANICAL CLOSET WALL DOWN TO 1ST FLOOR AND UNDER SLAB TO GROUND MOUNTED CONDENSING UNIT. SEE PLUMBING PLANS FOR CONDENSATE DISPOSAL. ROUTE REFRIGERANT LINES PER RISER DIAGRAM.
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 - ROUTE 4" EXHAUST DUCT FROM WALL MOUNTED EXHAUST FAN THROUGH TRUSS SPACE TO BUILDING SIDEWALL PER DETAIL. TERMINATE DUCT AT EXTERIOR WALL CAP PER RISER DIAGRAM.
 - ROUTE 4" DRYER EXHAUST DUCT THROUGH TRUSS SPACE TO BUILDING SIDEWALL PER DETAIL. TERMINATE DUCT AT EXTERIOR WALL CAP (NO BIRD SCREEN) PER RISER DIAGRAM.
 - MICROWAVE WITH DUCTLESS HOOD.
 - PROVIDE FACTORY PANEL FOR RETURN AIR AND SERVICE ACCESS.
 - PROVIDE HONEYWELL VISIONPRO 8000 TOUCHSCREEN 7-DAY PROGRAMMABLE THERMOSTAT OR EQUAL.
 - PROVIDE LOUVER ABOVE DOOR TO THE LAUNDRY CLOSET FOR DRYER MAKE-UP AIR.

- ### UL ASSEMBLY REQUIREMENTS:
- INSTALL LOWER FLOOR DUCTS IN THE L-500 FLOOR TRUSS SYSTEM. FOLLOW THE REQUIREMENTS OF THE UL LISTING FOR THE L-500 SYSTEM.
- INSTALL TOP FLOOR DUCTS IN THE P-500 ROOF TRUSS SYSTEM. FOLLOW THE REQUIREMENTS OF THE UL LISTING FOR THE P-500 SYSTEM.
- PROVIDE CEILING RADIATION DAMPERS AT ALL SUPPLY AND TRANSFER DUCTS AND REGISTER PENETRATIONS.
 - MAXIMUM DAMPER SIZE OF 324 SQUARE INCHES (18X18) AND NO MORE THAN 162 SQUARE INCHES PER 100 SF OF CEILING AREA.
 - MAINTAIN 1" BETWEEN DAMPERS AND TRUSSES.
 - PROVIDE MINIMUM 2" SEPARATION BETWEEN DAMPERS.
 - INSTALL ONLY RADIATION DAMPERS THAT ARE UL LISTED FOR THE ASSEMBLY IN WHICH THEY ARE INTENDED.


BLOWER DOOR TESTING REQUIREMENTS

PER FLORIDA ENERGY EFFICIENCY CODE SECTION R402.4 ALL APARTMENT UNITS LOCATED WITHIN BUILDINGS THAT ARE 3 STORIES OR LESS ARE REQUIRED TO BE LEAK TESTED WITH A MAXIMUM LEAK RATE OF NO GREATER THAN 7 AIR CHANGES PER HOUR. IF LEAK TESTING RESULTS SHOW A LEAK RATE HIGHER THAN 7 AIR CHANGES PER HOUR THE UNIT THERMAL ENVELOPE MUST BE SEALED ACCORDINGLY AND RE-TESTED. A PASSING CERTIFIED BLOWER DOOR TEST REPORT MUST BE SUPPLIED TO THE AUTHORITY HAVING JURISDICTION PRIOR TO CERTIFICATE OF OCCUPANCY.

PER FLORIDA MECHANICAL CODE SECTION 401.2 IF THE UNIT LEAK RATE IS FOUND TO BE LESS THAN 3 AIR CHANGES PER HOUR DEDICATED MECHANICAL VENTILATION WILL BE REQUIRED TO BE INSTALLED.

*DOES NOT APPLY TO BUILDINGS 4 STORIES OR GREATER


G5 UNIT 2Bs - MECHANICAL
1/4" = 1'-0"



ALABAMA DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

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No.	Date	Description
1	04/15/22	Permit Submission

REVISION HISTORY		
No.	Date	Description



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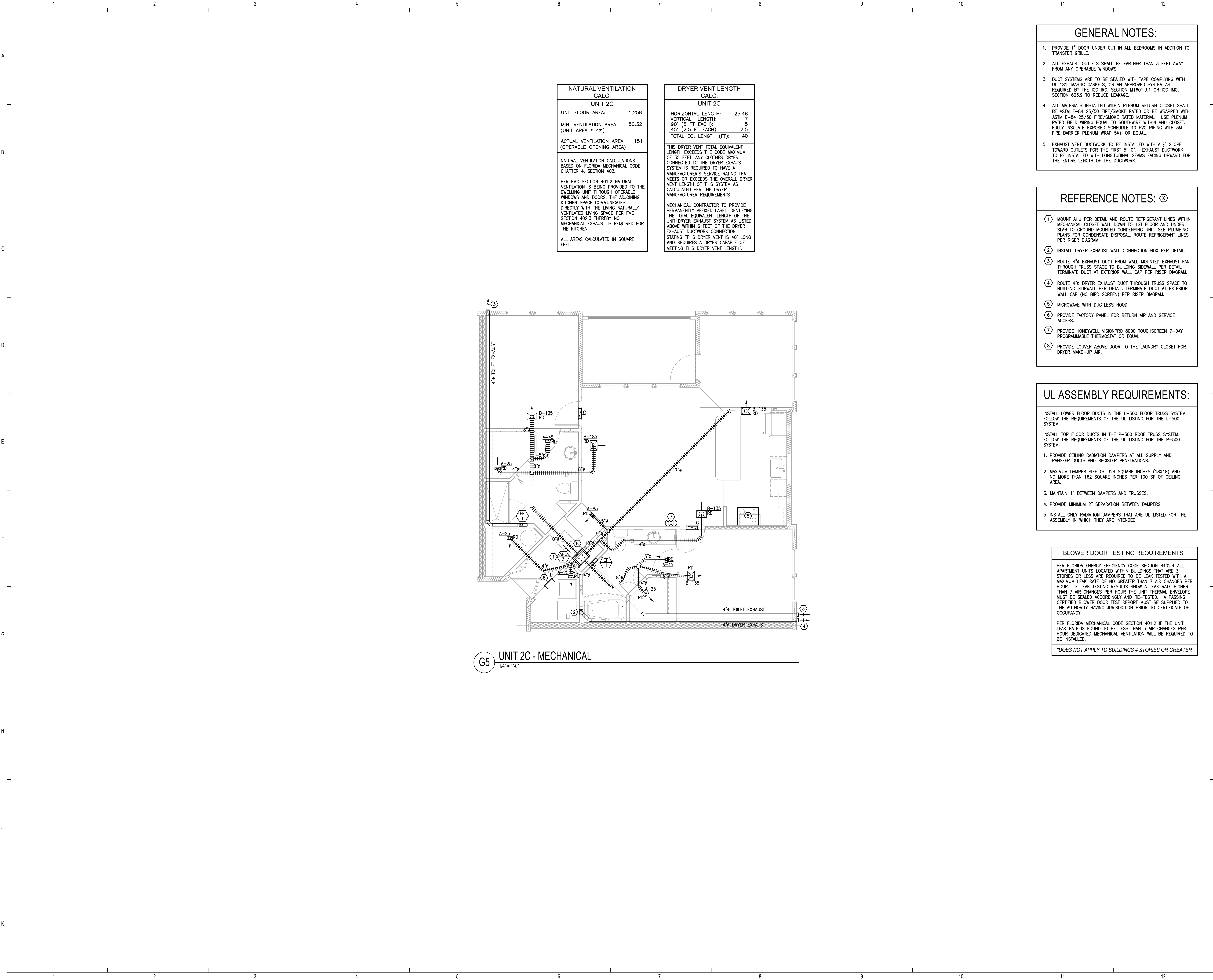



THE MADISON HUNTSVILLE, AL	Drawn	MJRSMB
	Checked	BLSA/B
	Approved	BLSA/B
	Date	04/15/2022
	Project #	5722

**ENLARGED UNIT PLANS
MECHANICAL**

M3.05


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THE MADISON	Drawn	MJRSMB
	Checked	BLSAJB
	Approved	BLSAJB
	Date	04/15/2022
	Project #	5722

ENLARGED UNIT PLANS
MECHANICAL

M3.06

GENERAL NOTES:

- CONTRACTOR TO VERIFY ALL MECHANICAL EQUIPMENT SELECTED FITS WITHIN DESIGNATED SPACE SHOWN ON MECHANICAL PLANS AND PROVIDES THE CORRECT CLEARANCES REQUIRED BY THE MANUFACTURER.
- CONTRACTOR SHALL COORDINATE VOLTAGE, PHASE AND REQUIRED MOCP FOR EACH PIECE OF EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING.
- IF PRODUCTS/EQUIPMENT ARE VALUE ENGINEERED OR SUBSTITUTED IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD COORDINATE ALL NEW PRODUCTS/EQUIPMENT REQUIREMENTS WITH OTHER DISCIPLINES/TRADES.

FAN SCHEDULE

MARK	AREA SERVED	TYPE	CFM	T.S.P.	HP/WATTS	RPM	VOLTS/PH	SONES	MANUFACTURER & MODEL NO.	NOTES
EF-1	UNITS	CEILING	52	0.25	7.7 WATTS	1,050	120/1Ø	0.5	PANASONIC FV-0510VSC1 OR EQUAL	1., 2. & 3.
EF-2,G	UNIT GARAGE	CEILING	163	0.25	19 WATTS	911	120/1Ø	0.8	GREENHECK CSP-A390-VG	4. & 5.
EF-3,G	UNIT GARAGE	CEILING	240	0.25	34 WATTS	1,021	120/1Ø	0.8	GREENHECK CSP-A390-VG	4. & 5.
EF-4,G	UNIT GARAGE	CEILING	290	0.25	49 WATTS	1,129	120/1Ø	1.0	GREENHECK CSP-A390-VG	4. & 5.
EF-5,G	UNIT GARAGE	CEILING	200	0.25	25 WATTS	950	120/1Ø	0.7	GREENHECK CSP-A390-VG	4. & 5.
NOTES: 1. EXHAUST FAN EQUIPPED WITH 4" OVAL CONNECTION. PROVIDE DUCTWORK TRANSITION AS REQUIRED. 2. EXHAUST FAN TO OPERATE ON INDIVIDUAL SWITCH WITHIN BATHROOM. 3. PROVIDE EXHAUST FAN CEILING RADIATION DAMPER PANASONIC MODEL PC-RD05C5 WHEN INSTALLED IN RATED CEILING. 4. PROVIDE RADIATION DAMPER/FIRE DAMPER AT ALL RATED ASSEMBLY PENETRATIONS. 5. PROVIDE WITH CARBON MONOXIDE DETECTOR MOUNTED ON GARAGE WALL FOR CONTROL OF FAN. FOLLOW FACTORY RECOMMENDED LOCATION AND MOUNTING HEIGHT.										

LOUVER SCHEDULE (AMENITIES AREA)

MARK	SERVICE	AIR FLOW (CFM)	FREE AREA (SF)	W x H (N)	MAX. VELOCITY IN FPM	MAX. PRESSURE DROP (IN H2O)	MANUFACTURER & MODEL NO.	NOTES
L-1	EXHAUST AIR	240	0.4	14"x12"	632	0.06	GREENHECK EDD-401-14x12	1. & 2.
L-2	OUTSIDE AIR	290	0.5	14"x16"	598	0.05	GREENHECK ESD-635-14x16	1. & 2.
L-3	OUTSIDE AIR	198	0.3	12"x14"	687	0.06	GREENHECK ESD-635-12x14	1. & 2.
NOTES: 1. PROVIDE BIRD SCREEN. 2. PROVIDE GRAVITY BACK DRAFT DAMPER ON INTERIOR SIDE OF LOUVER.								

AIR DEVICE SCHEDULE (APARTMENTS)

MARK	DESCRIPTION	FACE SIZE	NECK	MATERIAL	MANUFACTURER & MODEL NO.	NOTES
A	LOUVERED FACE SUPPLY DIFFUSER	8"x4"	SEE PLAN	STEEL	TRUAIRE 401	1.
B	LOUVERED FACE SUPPLY DIFFUSER	14"x10"	SEE PLAN	STEEL	TRUAIRE 401	1.
C	RETURN AIR TRANSFER GRILLE	14"x8"	SEE PLAN	ALUMINUM	TAMARACK TECHNOLOGIES RAP 14.8	1.
D	RETURN AIR TRANSFER GRILLE	14"x8"	SEE PLAN	ALUMINUM	TRUAIRE 170	1.
E	LOUVERED FACE RETURN GRILLE	18"x18"	SEE PLAN	STEEL	TRUAIRE 170	1.
NOTES: 1. COORDINATE SURFACE FINISHES WITH ARCHITECTURAL DRAWINGS.						

APARTMENT DX SPLIT AIR HANDLING UNIT SCHEDULE

MARK	LOCATION SERVED	FAN				COOLING COIL			FILTERS			ELECTRIC HEATING COIL			SINGLE POINT UNIT ELEC. REQUIREMENTS		UNIT INFORMATION						
		TOTAL AIR FLOW (CFM)	OUTSIDE AIR FLOW (CFM)	EXTERNAL STATIC PRESS. (IN.WG.)	DRIVE TYPE	HP	ENTERING AIR TEMP. (°F DB/WB)	LEAVING AIR TEMP. (°F DB/WB)	TOTAL CAPACITY (BTUH)	TYPE	EFFICIENCY	THICKNESS	NO. OF STAGES	TOTAL KW	VOLTAGE/ PHASE	SINGLE CIRCUIT MCA	SINGLE CIRCUIT MOCP	UNIT SIZE (H"xW"xD")	OPERATING WEIGHT (LBS.)	MANUFACTURER	MODEL NUMBER	MOUNTING	NOTES
AHU-1	1A, 1B, 1BS	600	-	0.3	DIRECT	1/3	80.0/67.0	56.0/54.0	18,000	THROWAWAY	25%-30%	1"	1	6	208/1Ø	36.0	40	36"x20"x16"	84	GOODMAN OR EQUAL	AHU1F190818*	THRU WALL	1., 2. 3. & 4.
AHU-2	2B, 2BS	800	-	0.3	DIRECT	1/3	80.0/67.0	56.0/54.0	24,000	THROWAWAY	25%-30%	1"	1	6	208/1Ø	36.0	40	36"x20"x16"	84	GOODMAN OR EQUAL	AHU1F250818*	THRU WALL	1., 2. 3. & 4.
AHU-3	3C	1,000	-	0.3	DIRECT	1/2	80.0/67.0	56.0/54.0	30,000	THROWAWAY	25%-30%	1"	1	7.5	208/1Ø	49.1	50	36"x24"x21"	109	GOODMAN OR EQUAL	AHU1F321016*	THRU WALL	1., 2. 3. & 4.
AHU-4	3C	1,200	-	0.3	DIRECT	1/2	80.0/67.0	56.0/54.0	36,000	THROWAWAY	25%-30%	1"	1	7.5	208/1Ø	49.1	50	36"x24"x21"	96	GOODMAN OR EQUAL	AHU1F371016*	STAND MOUNT	1., 2. & 3.
NOTES: 1. PROVIDE COMPLETE WITH PULL TYPE DISCONNECT SWITCH (PROVIDED BY DIVISION 16) AND HONEYWELL TH8321WF1001 7-DAY PROGRAMMABLE THERMOSTAT AND INTEGRAL HUMIDISTAT. 2. ROUTE AND SIZE REFRIGERANT LINES PER MANUFACTURER'S REQUIREMENTS. 3. PROVIDE CONDENSATE OVERFLOW SWITCH SAFE-T SWITCH MODEL S52 OR EQUIVALENT. 4. PROVIDE MANUFACTURER'S WALL PANEL, MODEL NUMBER WAD-1 OR WAD-2 BASED ON AIR HANDLER MODEL NUMBER.																							

APARTMENT DX SPLIT CONDENSING UNIT SCHEDULE (STRAIGHT COOL)


MARK	LOCATION	COMPRESSOR			CONDENSER FANS			ELECTRICAL						UNIT INFORMATION			MANUFACTURER	MODEL NUMBER	NOTES				
		OUTDOOR DESIGN TEMP. (°F)	QTY.	CAPACITY STEPS %	QTY.	NOMINAL HP	VOLTAGE/ PHASE	COMPRESSOR RLA	CONDENSER FANS QTY.	FLA (EA)	MCA	MOCP	SEER	UNIT SIZE (H"xW"xD")	OPERATING WEIGHT (LBS.)								
CU-1	GROUND	95°	1	100	1	1/8	208/1Ø	9.0	1	0.70	12.0	20	14.0	28"x28"x28"	131		GOODMAN OR EQUAL	GSX140191*	1. & 2.				
CU-2	GROUND	95°	1	100	1	1/8	208/1Ø	13.5	1	0.70	17.8	30	14.0	33"x28"x28"	136		GOODMAN OR EQUAL	GSX140251*	1. & 2.				
CU-3	GROUND	95°	1	100	1	1/6	208/1Ø	12.8	1	0.95	17.0	25	14.0	33"x29"x29"	162		GOODMAN OR EQUAL	GSX140311*	1. & 2.				
CU-4	GROUND	95°	1	100	1	1/6	208/1Ø	14.1	1	0.95	18.6	30	14.0	33"x29"x29"	162		GOODMAN OR EQUAL	GSX140371*	1. & 2.				
NOTES: 1. PROVIDE COMPLETE WITH PULL TYPE DISCONNECT SWITCH (PROVIDED BY DIVISION 16), TIME DELAY RELAY AND ANTI-SHORT CYCLE TIMER. 2. MOUNT AND SECURE CONDENSING UNITS PER DETAILS PROVIDED.																							

MINI-SPLIT AIR HANDLING UNIT SCHEDULE

MARK	LOCATION SERVED	FAN				COOLING COIL					FILTERS			ELECTRIC HEATING COIL			SINGLE POINT UNIT ELEC. REQUIREMENTS		UNIT INFORMATION								
		TOTAL AIR FLOW (CFM)	OUTSIDE AIR FLOW (CFM)	EXTERNAL STATIC PRESS. (IN.WG.)	DRIVE TYPE	FLA	ENTERING AIR TEMP. (°F DB/WB)	LEAVING AIR TEMP. (°F DB/WB)	TOTAL CAPACITY (BTUH)	SENSIBLE CAPACITY (BTUH)	COIL AREA (SQ.FT.)	COIL ROW/FINS	TYPE	EFFICIENCY	THICKNESS	TOTAL CAPACITY (BTUH)	VOLTS/ PHASE	HEATER WATTS	VOLTAGE/ PHASE	SINGLE CIRCUIT MCA	SINGLE CIRCUIT MOCP	UNIT SIZE (H"xW"xD")	OPERATING WEIGHT (LBS.)	MANUFACTURER	MODEL NUMBER	NOTES	
MAU-1	ELEVATOR EQUIP.	385	-	-	-	0.19	80.0/67.0	56.0/54.0	12,000	-	-	-	INTERNAL	25%-30%	-	-	-	-	208/1Ø	1	-	-	12"x35"x10"	28	MITSUBISHI OR EQUAL	TPKAD0121LA00A	1. 2. & 3
MAU-2	FACP	385	-	-	-	0.19	80.0/67.0	56.0/54.0	12,000	-	-	-	INTERNAL	25%-30%	-	14,000	208/1Ø	1,030	208/1Ø	1	-	-	12"x35"x10"	28	MITSUBISHI OR EQUAL	TPKAD0121LA00A	1. 2. & 3
NOTES: 1. POWER FOR INDOOR UNIT PROVIDED FROM EXTERIOR CONDENSER. COORDINATE WITH ELECTRICAL CONTRACTOR TO PROVIDE POWER WIRING BETWEEN EACH UNIT IN FIELD. 2. ROUTE AND SIZE REFRIGERANT LINES PER MANUFACTURER'S REQUIREMENTS. 3. MOUNT AS HIGH ON WALL AS POSSIBLE.																											

MINI-SPLIT CONDENSING UNIT SCHEDULE

MARK	LOCATION	COMPRESSOR			CONDENSER FANS			ELECTRICAL						UNIT INFORMATION			MANUFACTURER	MODEL NUMBER	NOTES						
		OUTDOOR DESIGN TEMP. (°F)	QTY.	CAPACITY STEPS %	QTY.	NOMINAL HP	VOLTAGE/ PHASE	COMPRESSOR RLA/LRA	CONDENSER FANS QTY.	FLA	MCA	MOCP	SEER	UNIT SIZE (H"xW"xD")	OPERATING WEIGHT (LBS.)										
MCU-1	GROUND	95	1	100	1	-	208/1Ø	7.0/12.0	1	0.50	11	28	21	25"x32"x12"	92		MITSUBISHI OR EQUAL	TRUZA0121KA70NA	1. & 2.						
MCU-2	GROUND	95	1	100	1	-	208/1Ø	7.0/12.0	1	0.50	11	28	21	25"x32"x12"	93		MITSUBISHI OR EQUAL	TRUZA0121KA70NA	1. & 2.						
NOTES: 1. PROVIDE COMPLETE WITH TIME DELAY RELAY AND ANTI-SHORT CYCLE TIMER. 2. DISCONNECT SWITCH PROVIDED BY DIVISION 16.																									




U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

ISSUE HISTORY

No.	Date	Description
1	04/15/22	Permit Submission


REVISION HISTORY

No.	Date	Description



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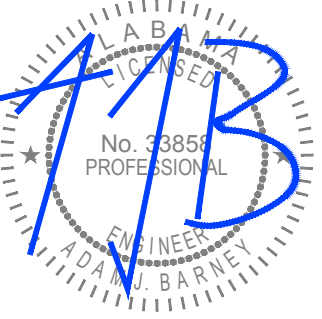
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JLC 22.0023.00



JLC 22.0023.00

THE MADISON

HUNTSVILLE, AL

SCHEDULES MECHANICAL

M5.01

Drawn: MJS/MB

Checked: BLS/AJB

Approved: BLS/AJB

Date: 04/15/2022

Project #: 5722

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GENERAL NOTES:

1. CONTRACTOR TO VERIFY ALL MECHANICAL EQUIPMENT SELECTED FITS WITHIN DESIGNATED SPACE SHOWN ON MECHANICAL PLANS AND PROVIDES THE CORRECT CLEARANCES REQUIRED BY THE MANUFACTURER.
2. CONTRACTOR SHALL COORDINATE VOLTAGE, PHASE AND REQUIRED MOCF FOR EACH PIECE OF EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING.
3. IF PRODUCTS/EQUIPMENT ARE VALUE ENGINEERED OR SUBSTITUTED IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD COORDINATE ALL NEW PRODUCTS/EQUIPMENT REQUIREMENTS WITH OTHER DISCIPLINES/TRADES.

AIR DEVICE SCHEDULE (CORRIDORS)

MARK	DESCRIPTION	FACE SIZE	NECK	MATERIAL	MANUFACTURER & MODEL NO.	NOTES
CA	LOUVERED FACE SUPPLY DIFFUSER - CEILING	12"x12"	SEE PLAN	STEEL	USAIRE 4700	1.
CB	LOUVERED FACE RETURN GRILLE	18"x18"	SEE PLAN	STEEL	USAIRE RHF	1.

NOTES:
1. COORDINATE SURFACE FINISHES WITH ARCHITECTURAL DRAWINGS.

OUTSIDE AIR CALCULATIONS (BLDG 1 CORRIDORS)

CLASSIFICATION	OCC. FACTOR OCCUPANCY/ 1000 SQFT. (PERSONS)	ASHRAE 62.1 VALUES PER TABLE 6.2.2.1		SPACE AREA (SQFT) Az	SPACE LOAD (PERSONS) Pz	OUTDOOR AIR REQUIRED (CFM)	OUTDOOR AIR SUPPLIED (CFM)
		Rp	Ra				
1ST FLOOR							
1ST FLOOR CORRIDOR	-	-	0.06	1,310	-	78.60	80
2ND FLOOR							
2ND FLOOR CORRIDOR	-	-	0.06	1,310	-	78.60	80
3RD FLOOR							
3RD FLOOR CORRIDOR	-	-	0.06	1,310	-	78.60	80
4TH FLOOR							
4TH FLOOR CORRIDOR	-	-	0.06	1,310	-	78.60	80
TOTAL	-	-	-	5,240*	-	314.40	320

- NOTES:
1. REQUIRED OUTDOOR VENTILATION AIR VALUES TAKEN FROM ASHRAE 62.1, TABLE 6.2.2.1.
VENTILATION BREATHING ZONE FORMULA: $Vbz = Rp * Pz + Ra * Az$
 Pz = OCCUPANCY FACTOR * SPACE AREA
2. OUTSIDE AIR CALC. REFERENCES CHAPTER 15 OF THE 2020 EDITION OF THE OF THE FLORIDA BUILDING BUILDING CODE (MECHANICAL).

*AREA DOES NOT INCLUDE RESTROOMS.

OUTSIDE AIR CALCULATIONS (BLDG 2 CORRIDORS)

CLASSIFICATION	OCC. FACTOR OCCUPANCY/ 1000 SQFT. (PERSONS)	ASHRAE 62.1 VALUES PER TABLE 6.2.2.1		SPACE AREA (SQFT) Az	SPACE LOAD (PERSONS) Pz	OUTDOOR AIR REQUIRED (CFM)	OUTDOOR AIR SUPPLIED (CFM)
		Rp	Ra				
1ST FLOOR							
1ST FLOOR CORRIDOR	-	-	0.06	1,310	-	78.60	80
2ND FLOOR							
2ND FLOOR CORRIDOR	-	-	0.06	1,310	-	78.60	80
3RD FLOOR							
3RD FLOOR CORRIDOR	-	-	0.06	1,310	-	78.60	80
4TH FLOOR							
4TH FLOOR CORRIDOR	-	-	0.06	1,310	-	78.60	80
TOTAL	-	-	-	5,240	-	314.40	320

- NOTES:
1. REQUIRED OUTDOOR VENTILATION AIR VALUES TAKEN FROM ASHRAE 62.1, TABLE 6.2.2.1.
VENTILATION BREATHING ZONE FORMULA: $Vbz = Rp * Pz + Ra * Az$
 Pz = OCCUPANCY FACTOR * SPACE AREA
2. OUTSIDE AIR CALC. REFERENCES CHAPTER 15 OF THE 2020 EDITION OF THE OF THE FLORIDA BUILDING BUILDING CODE (MECHANICAL).

*AREA DOES NOT INCLUDE RESTROOMS.

FLEX DUCT
SCHEDULE

CFM	FLEX SIZE
0 - 35	4"
36 - 60	5"
61 - 100	6"
61 - 140	7"
141 - 210	8"
211 - 280	9"
281 - 400	10"
401 - 600	12"
601 - 900	14"
901 - 1,300	16"
1,300 - 1,700	18"

COORDOR DX SPLIT AIR HANDLING UNIT SCHEDULE

MARK	LOCATION SERVED	FAN				COOLING COIL				FILTERS			ELECTRIC HEATING COIL			SINGLE POINT UNIT ELEC. REQUIREMENTS		UNIT INFORMATION					
		TOTAL AIR FLOW (CFM)	OUTSIDE AIR FLOW (CFM)	EXTERNAL STATIC PRESS. (IN.WG.)	DRIVE TYPE	HP	ENTERING AIR TEMP. (° F DB/WS)	LEAVING AIR TEMP. (° F DB/WS)	TOTAL CAPACITY (BTUH)	TYPE	EFFICIENCY	THICKNESS	NO. OF STAGES	TOTAL KW	VOLTAGE/PHASE	SINGLE CIRCUIT MCA	SINGLE CIRCUIT MOCF	UNIT SIZE (H"xW"xD")	OPERATING WEIGHT (LBS.)	MANUFACTURER	MODEL NUMBER	MOUNTING	NOTES
AHU-1.1	CORRIDOR	1,000	80	0.8	DIRECT	3/4	80.0/67.0	56.0/54.0	30,000	THROWAWAY	25%-30%	1"	1	5	208/1#	27.0	30	54"x18"x21"	129	GOODMAN OR EQUAL	ASPT137B14*	METAL STAND	1., 2., 3. & 4.
AHU-1.2	CORRIDOR	1,000	80	0.8	DIRECT	3/4	80.0/67.0	56.0/54.0	30,000	THROWAWAY	25%-30%	1"	1	5	208/1#	27.0	30	54"x18"x21"	129	GOODMAN OR EQUAL	ASPT137B14*	METAL STAND	1., 2., 3. & 4.
AHU-1.3	CORRIDOR	1,000	80	0.8	DIRECT	3/4	80.0/67.0	56.0/54.0	30,000	THROWAWAY	25%-30%	1"	1	5	208/1#	27.0	30	54"x18"x21"	129	GOODMAN OR EQUAL	ASPT137B14*	METAL STAND	1., 2., 3. & 4.
AHU-1.4	CORRIDOR	1,000	80	0.8	DIRECT	3/4	80.0/67.0	56.0/54.0	30,000	THROWAWAY	25%-30%	1"	1	5	208/1#	27.0	30	54"x18"x21"	129	GOODMAN OR EQUAL	ASPT137B14*	METAL STAND	1., 2., 3. & 4.
AHU-2.1	CORRIDOR	1,000	80	0.8	DIRECT	3/4	80.0/67.0	56.0/54.0	30,000	THROWAWAY	25%-30%	1"	1	5	208/1#	27.0	30	54"x18"x21"	129	GOODMAN OR EQUAL	ASPT137B14*	METAL STAND	1., 2., 3. & 4.
AHU-2.2	CORRIDOR	1,000	80	0.8	DIRECT	3/4	80.0/67.0	56.0/54.0	30,000	THROWAWAY	25%-30%	1"	1	5	208/1#	27.0	30	54"x18"x21"	129	GOODMAN OR EQUAL	ASPT137B14*	METAL STAND	1., 2., 3. & 4.
AHU-2.3	CORRIDOR	1,000	80	0.8	DIRECT	3/4	80.0/67.0	56.0/54.0	30,000	THROWAWAY	25%-30%	1"	1	5	208/1#	27.0	30	54"x18"x21"	129	GOODMAN OR EQUAL	ASPT137B14*	METAL STAND	1., 2., 3. & 4.
AHU-2.4	CORRIDOR	1,000	80	0.8	DIRECT	3/4	80.0/67.0	56.0/54.0	30,000	THROWAWAY	25%-30%	1"	1	5	208/1#	27.0	30	54"x18"x21"	129	GOODMAN OR EQUAL	ASPT137B14*	METAL STAND	1., 2., 3. & 4.

NOTES:

1. PROVIDE COMPLETE WITH FULL TYPE DISCONNECT SWITCH (PROVIDED BY EQUIPMENT 16) AND HONEYWELL THB321WF1001 7-DAY PROGRAMMABLE THERMOSTAT AND INTEGRAL HUMIDISTAT.
2. ROUTE AND SIZE REFRIGERANT LINES PER MANUFACTURER'S REQUIREMENTS.
3. PROVIDE CONDENSATE OVERFLOW SWITCH SAFE-T SWITCH MODEL SS2 OR EQUIVALENT.
4. PROVIDE WITH MOTORIZED OUTSIDE AIR DAMPER. DAMPER TO BE INTERLOCKED WITH AHU AND BALANCED PER OUTSIDE AIR SCHEDULE.
5. PROVIDE SUPPLY AND RETURN DUCT MOUNTED SMOKE DETECTOR FOR UNITS 2000 CFM AND OVER.

- NOTES:
1. PROVIDE COMPLETE WITH PULL TYPE DISCONNECT SWITCH (PROVIDED BY DIVISION 16) AND HONEYWELL TH8321WF1001 7-DAY PROGRAMMABLE THERMOSTAT AND INTEGRAL HUMIDISTAT.
2. ROUTE AND SIZE REFRIGERANT LINES PER MANUFACTURER'S REQUIREMENTS.
3. PROVIDE CONDENSATE OVERFLOW SWITCH SAFE-T SWITCH MODEL SS2 OR EQUIVALENT.
4. PROVIDE WITH MOTORIZED OUTSIDE AIR DAMPER. DAMPER TO BE INTERLOCKED WITH AHU AND BALANCED PER OUTSIDE AIR SCHEDULE.
5. PROVIDE SUPPLY AND RETURN DUCT MOUNTED SMOKE DETECTOR FOR UNITS 2000 CFM AND OVER.

CORRIDOR DX SPLIT CONDENSING UNIT SCHEDULE (STRAIGHT COOL)

MARK	LOCATION	COMPRESSOR		CONDENSER FANS		ELECTRICAL				UNIT INFORMATION		MANUFACTURER	MODEL NUMBER	NOTES
		OUTDOOR DESIGN TEMP. (°F)	CAPACITY QTY.	QTY.	NOMINAL HP	VOLTAGE/ PHASE	COMPRESSOR FLA EACH	CONDENSER FANS QTY.	FLA (EA.)	MCA	MOCF	SEER		
CU-1.1	GROUND	95°	1	100	1	1/6	208/1#	12.8	1	0.95	17.0	25	14.0	33"x29"x29"
CU-1.2	GROUND	95°	1	100	1	1/6	208/1#	12.8	1	0.95	17.0	25	14.0	33"x29"x29"
CU-1.3	GROUND	95°	1	100	1	1/6	208/1#	12.8	1	0.95	17.0	25	14.0	33"x29"x29"
CU-1.4	GROUND	95°	1	100	1	1/6	208/1#	12.8	1	0.95	17.0	25	14.0	33"x29"x29"
CU-2.1	GROUND	95°	1	100	1	1/6	208/1#	12.8	1	0.95	17.0	25	14.0	33"x29"x29"
CU-2.2	GROUND	95°	1	100	1	1/6	208/1#	12.8	1	0.95	17.0	25	14.0	33"x29"x29"
CU-2.3	GROUND	95°	1	100	1	1/6	208/1#	12.8	1	0.95	17.0	25	14.0	33"x29"x29"
CU-2.4	GROUND	95°	1	100	1	1/6	208/1#	12.8	1	0.95	17.0	25	14.0	33"x29"x29"

- NOTES:
1. PROVIDE COMPLETE WITH PULL TYPE DISCONNECT SWITCH (PROVIDED BY DIVISION 16), TIME DELAY RELAY AND ANTI-SHORT CYCLE TIMER.
2. MOUNT AND SECURE CONDENSING UNITS PER DETAILS PROVIDED.



ISSUE HISTORY

No.	Date	Description
1	04/15/22	Permit Submission

REVISION HISTORY

No.	Date	Description



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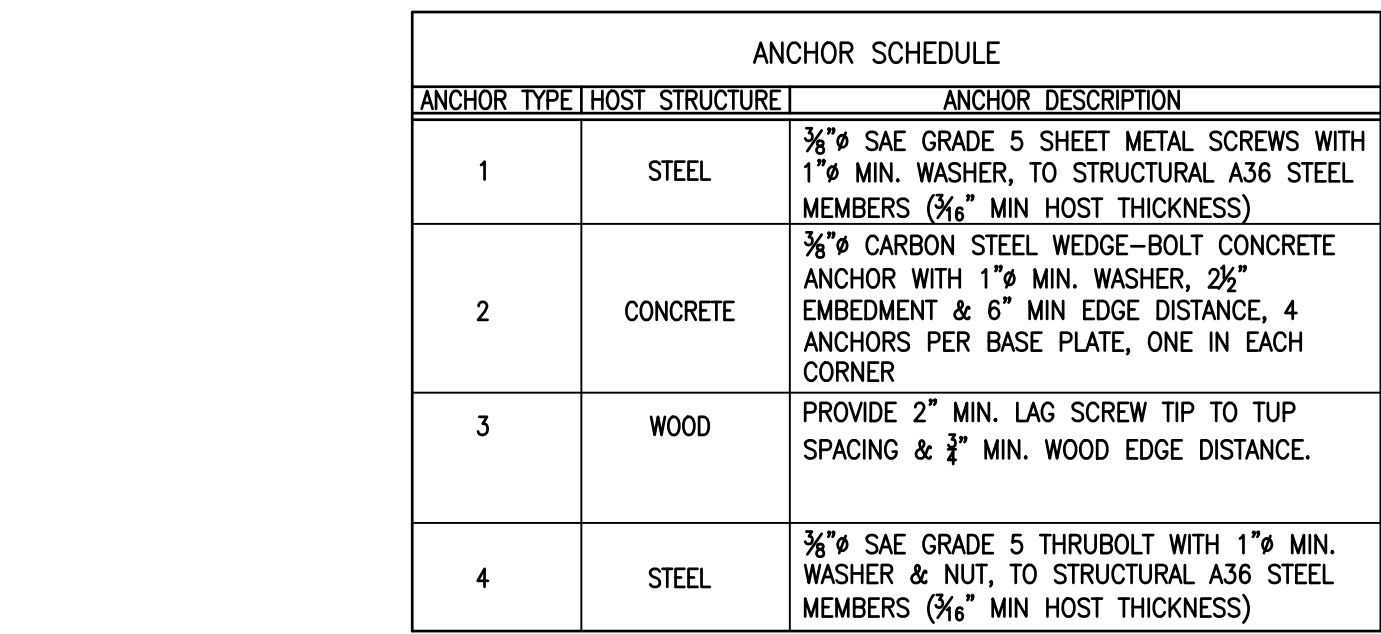


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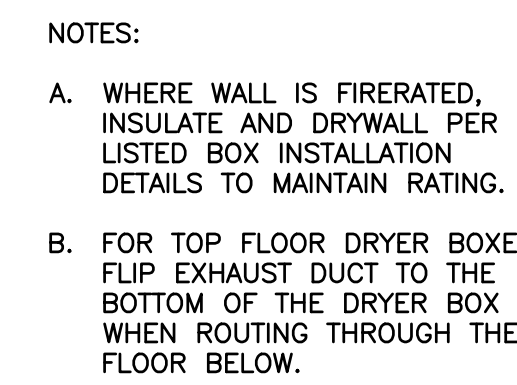
HUNTSVILLE, AL

SCHEDULE
MECHANICAL

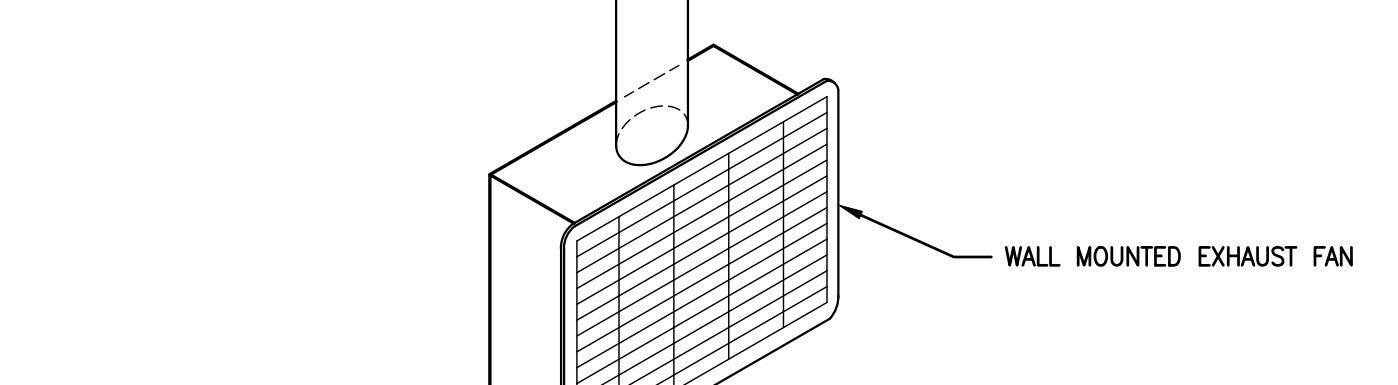
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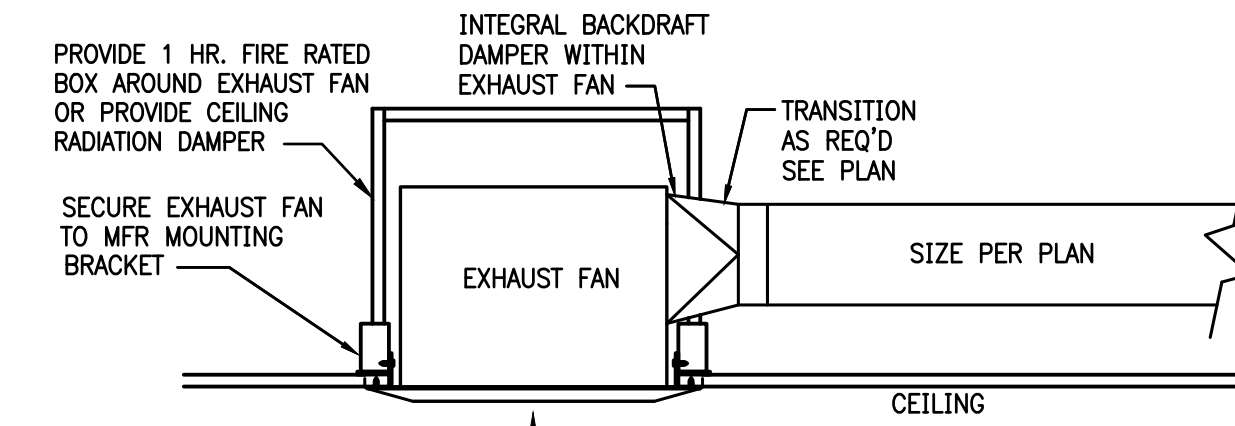
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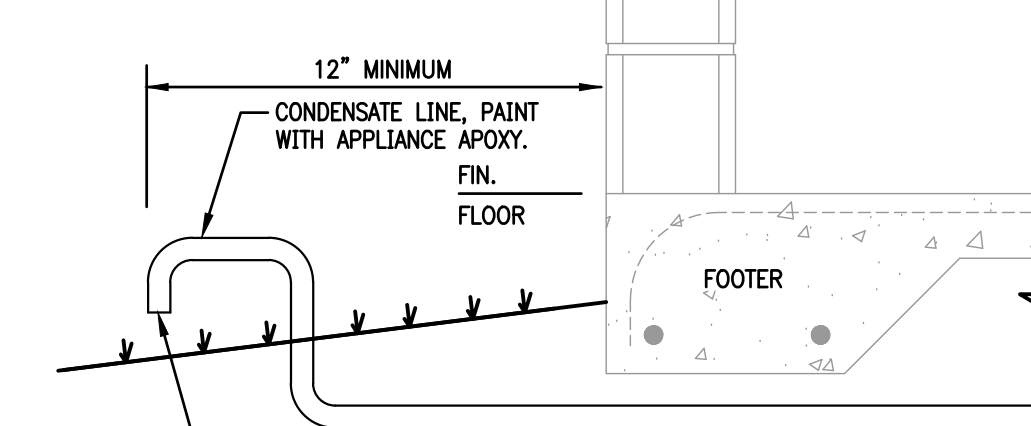
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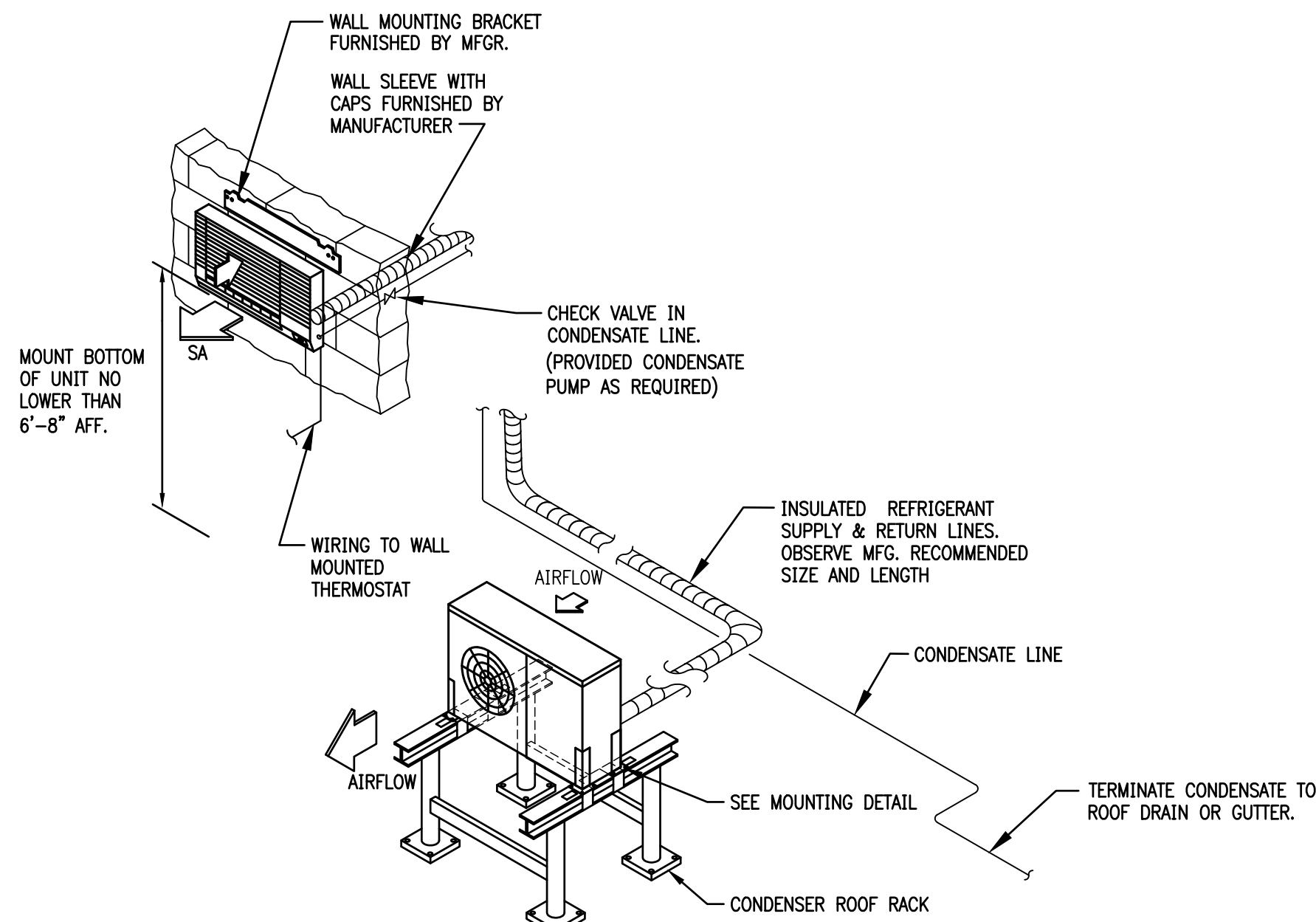
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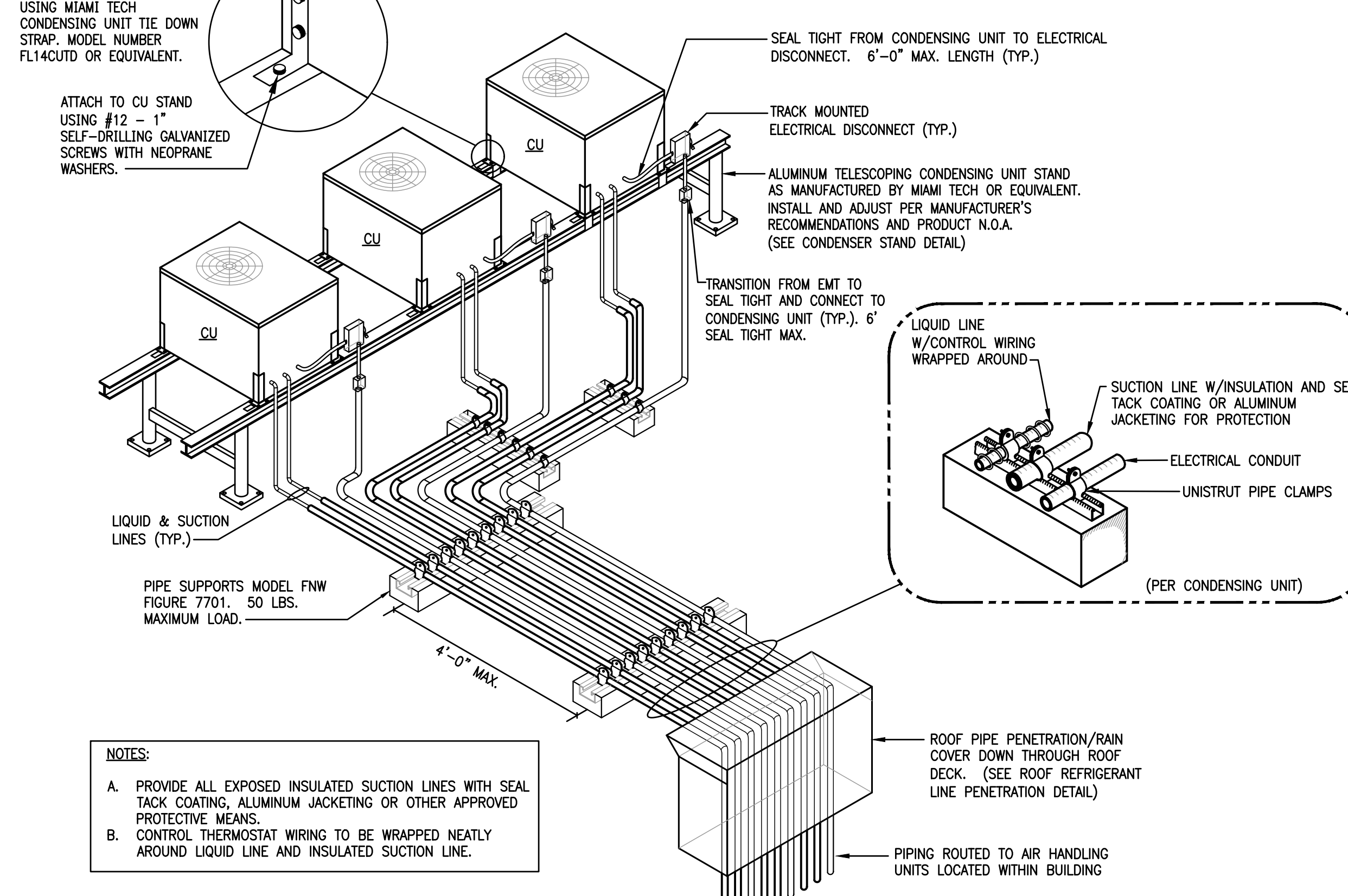
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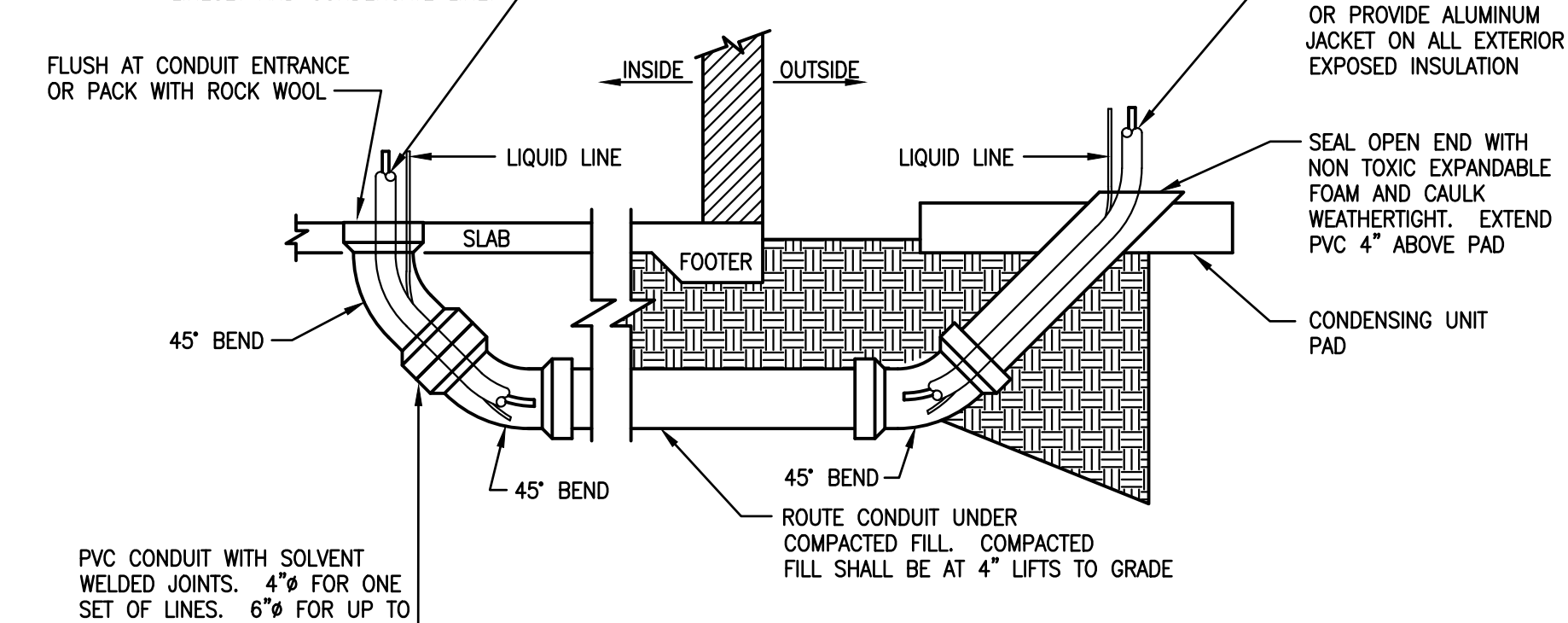
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3
NTS



2
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NTS

ISSUE HISTORY		
No.	Date	Description
1	04/15/22	Permit Submission

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JLC 22.0023.00



<h1>THE MADISON</h1> <p>HUNTSVILLE, AL</p>	Drawn: MJS/SL
	Checked: BLS/SL
	Approved: BLS/SL
	Date: 04/15/2010
	Project #: 57

K	DETAILS
	MECHANICAL

M6.01

ISSUE HISTORY

No.	Date	Description
1	04/15/22	Permit Submission

REVISION HISTORY

No.	Date	Description



FUGLEBERG KOCH

2353 Temple Trail, Winter Park, FL 32789 (407) 629-0595
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JLC 22.0023.00



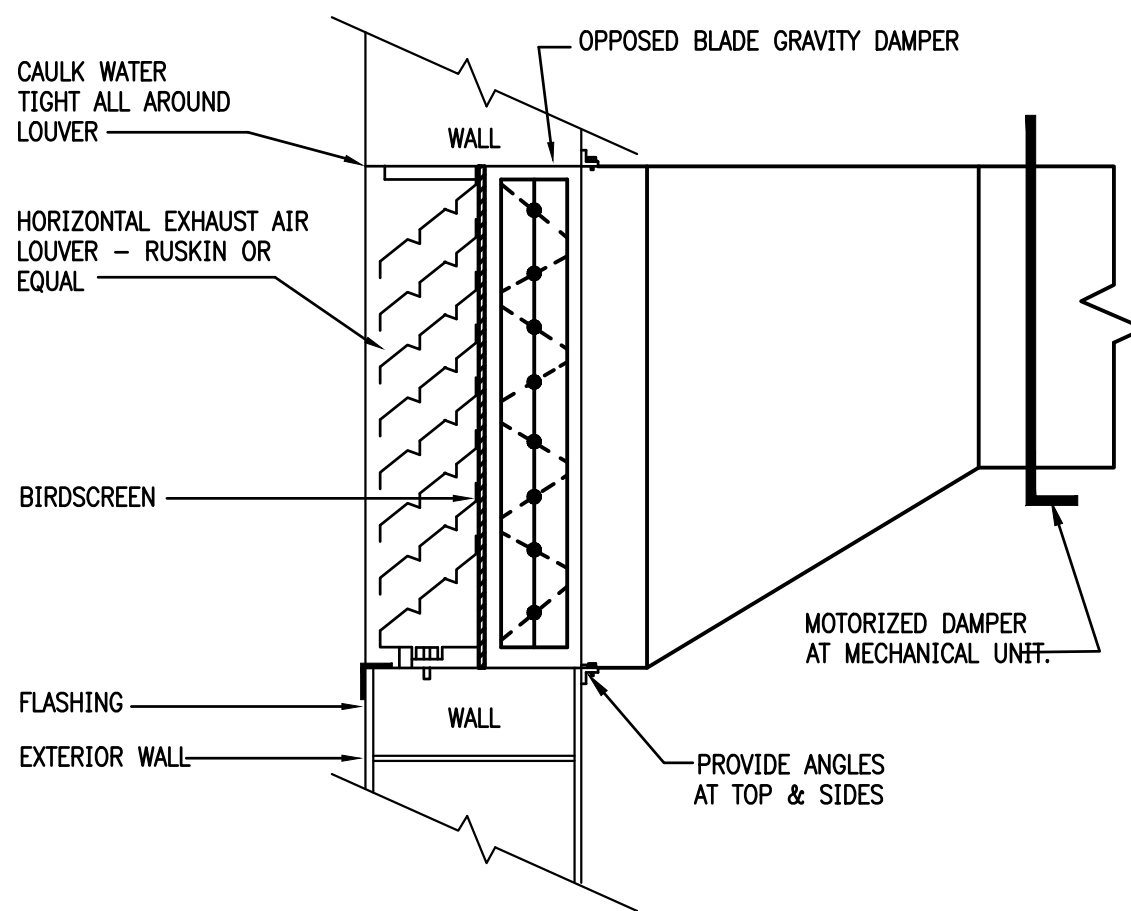
THE MADISON

HUNTSVILLE, AL

**DETAILS
MECHANICAL**

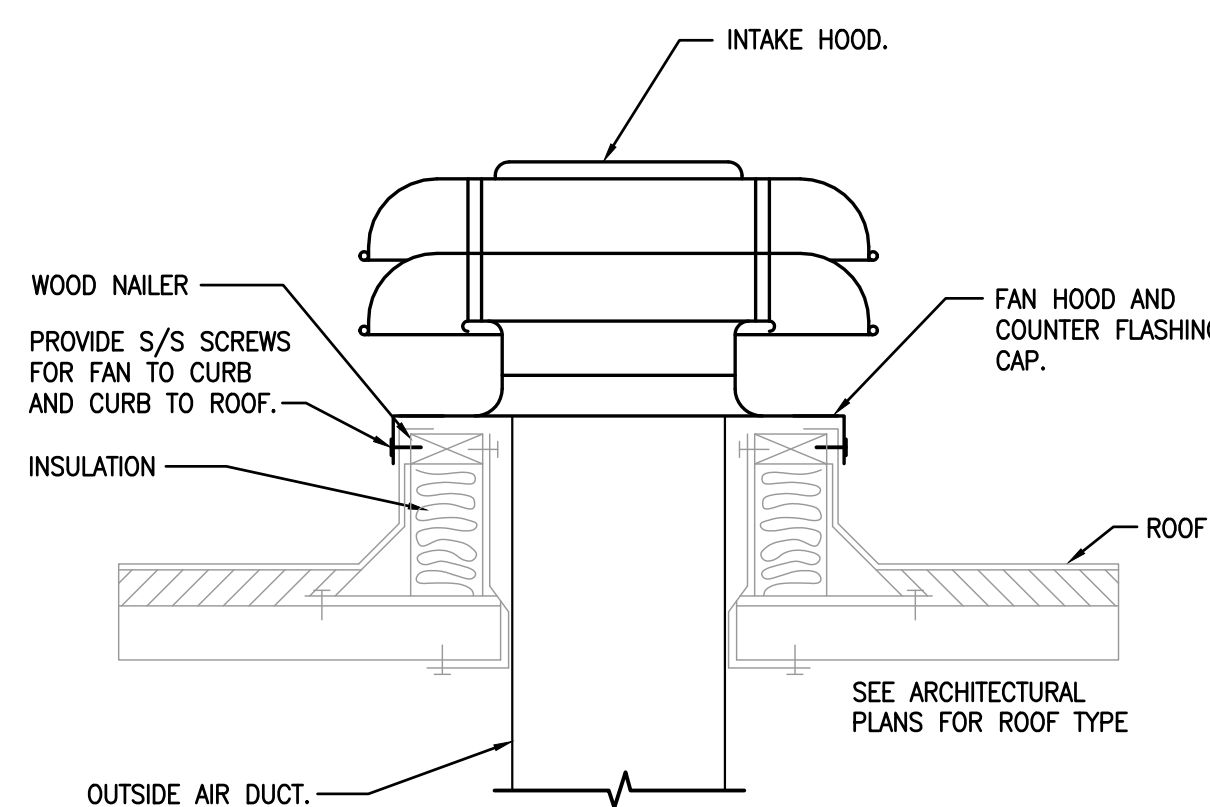
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Drawn	MJRSMB
Checked	BLSAJB
Appoval	BLSAJB
Date	04/15/2022
Project #	5722



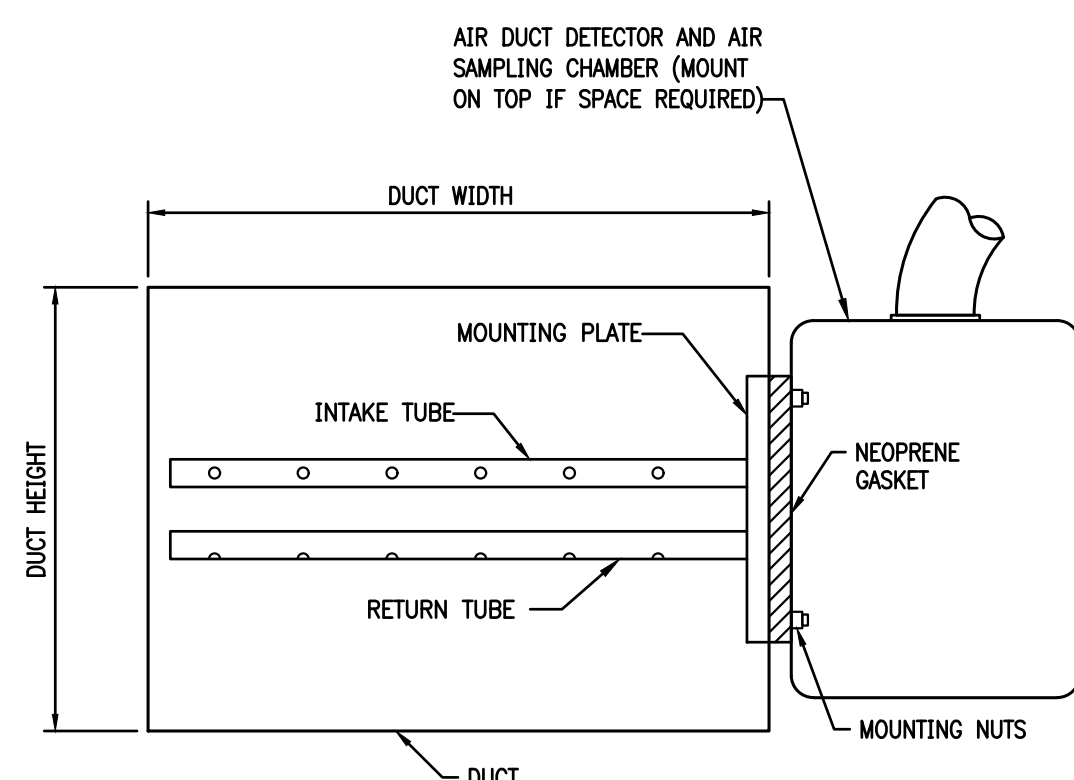
- NOTES:
1. PROTECT OPENING PER FLORIDA BUILDING CODE - MECHANICAL SECTION 401.5 AND 401.6

10
NTS
SIDEWALL LOUVER DETAIL



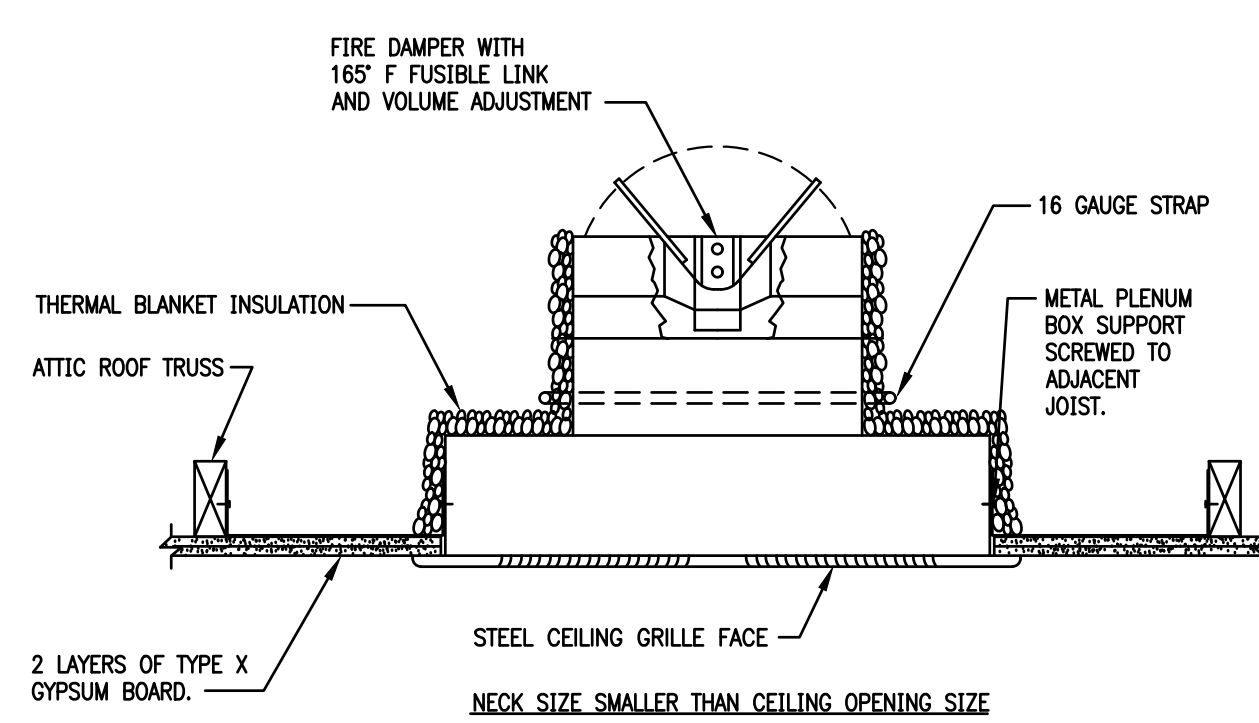
- NOTES:
1. PROVIDE S/S SCREWS FOR FAN TO CURB AND CURB TO ROOF.
 2. SEE ARCHITECTURAL PLANS FOR ROOF TYPE

9
NTS
OUTSIDE AIR INTAKE DETAIL



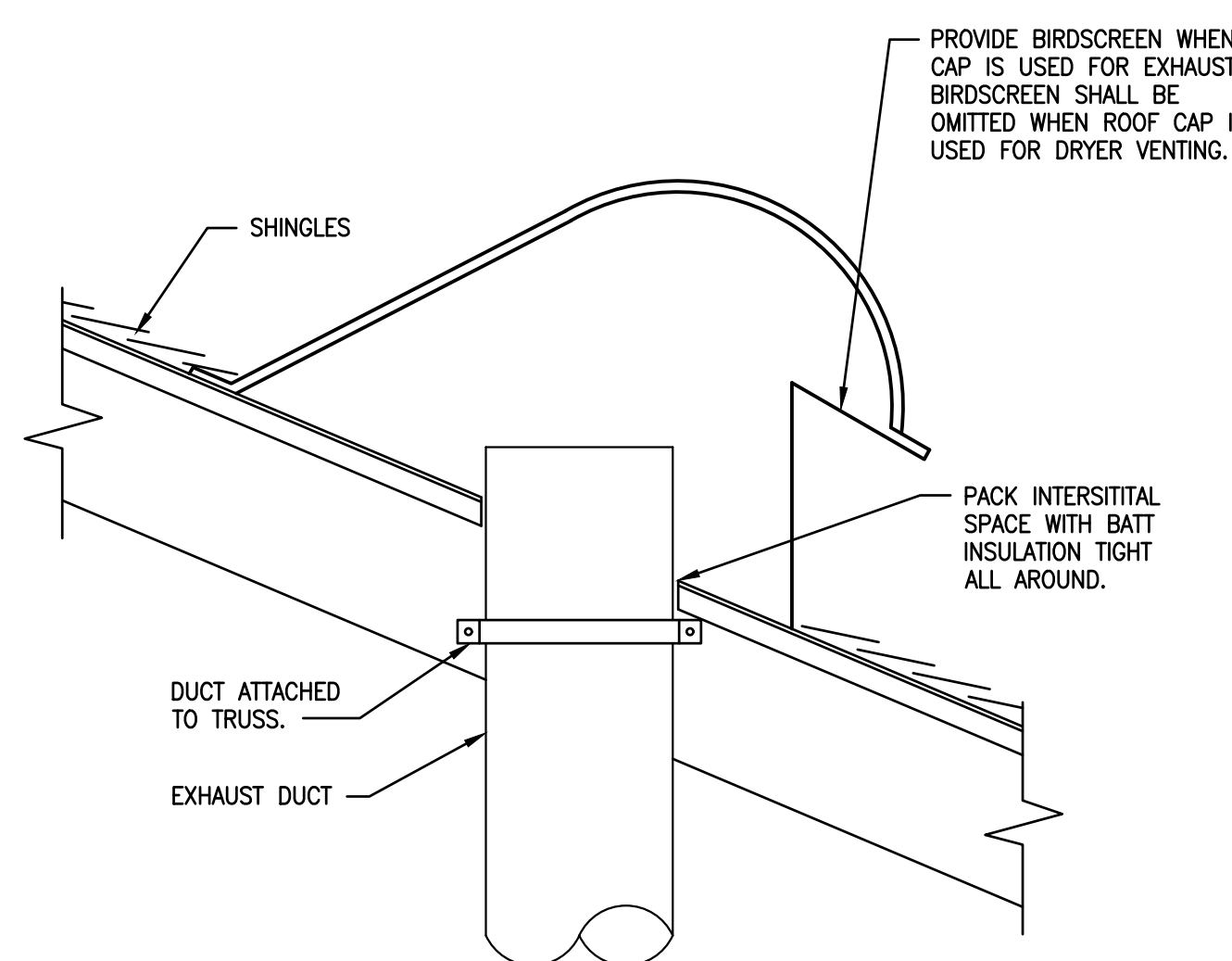
- NOTES:
1. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS.
 2. PROVIDE ACCESS DOOR AT SAMPLING TUBES.

8
NTS
SMOKE DETECTOR DETAIL

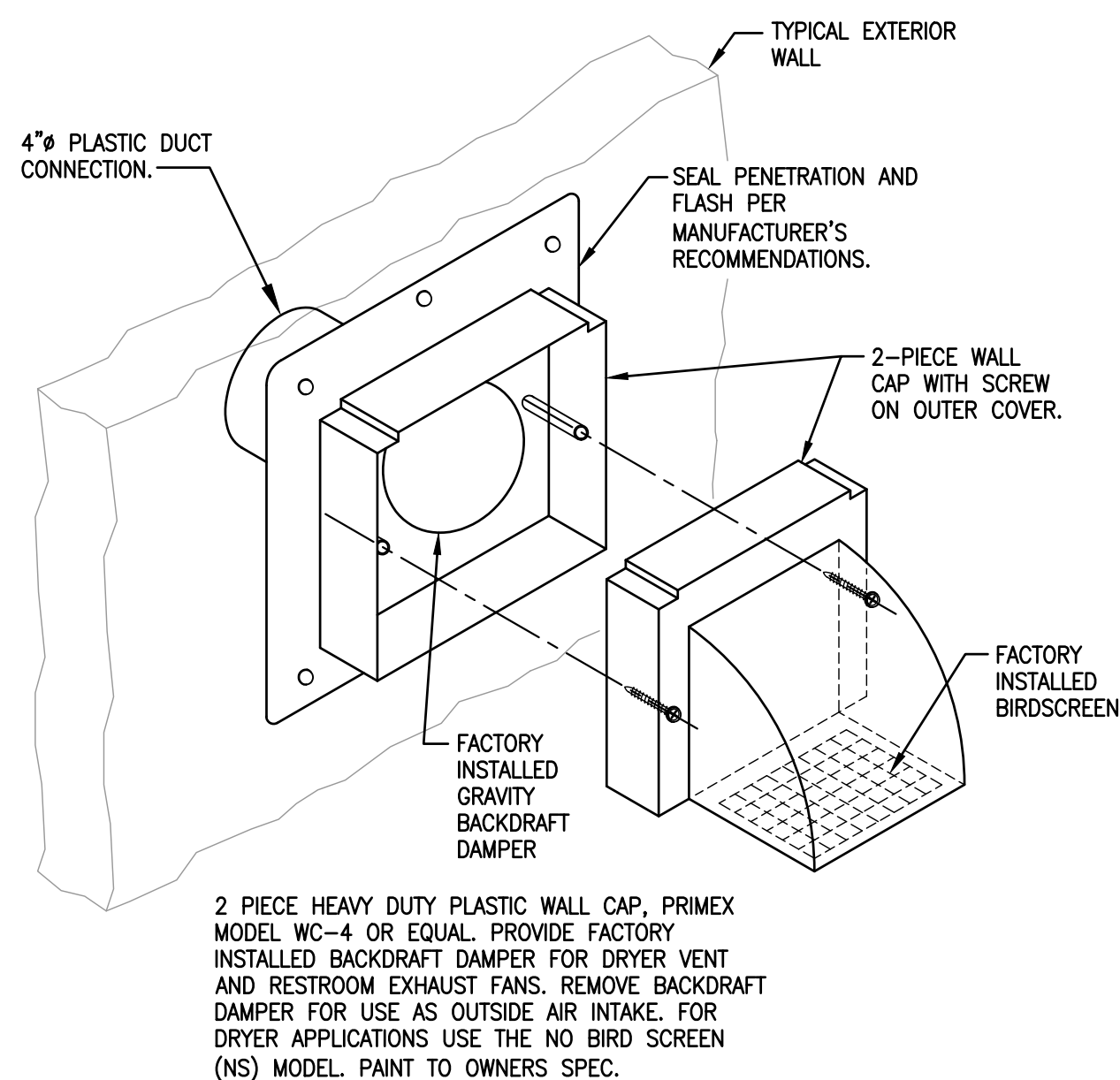


- NOTES:
1. DAMPER SHALL BE U.L. CLASSIFIED UNDER U.L. STANDARD 555.
 2. THERMAL BLANKET INSULATION SHALL BE U.L. CLASSIFIED UNDER U.L. STANDARD 555.
 3. APPLIES TO DIFFUSERS RETURN GRILLES AND TRANSFER GRILLES PENETRATING RATED CEILING.

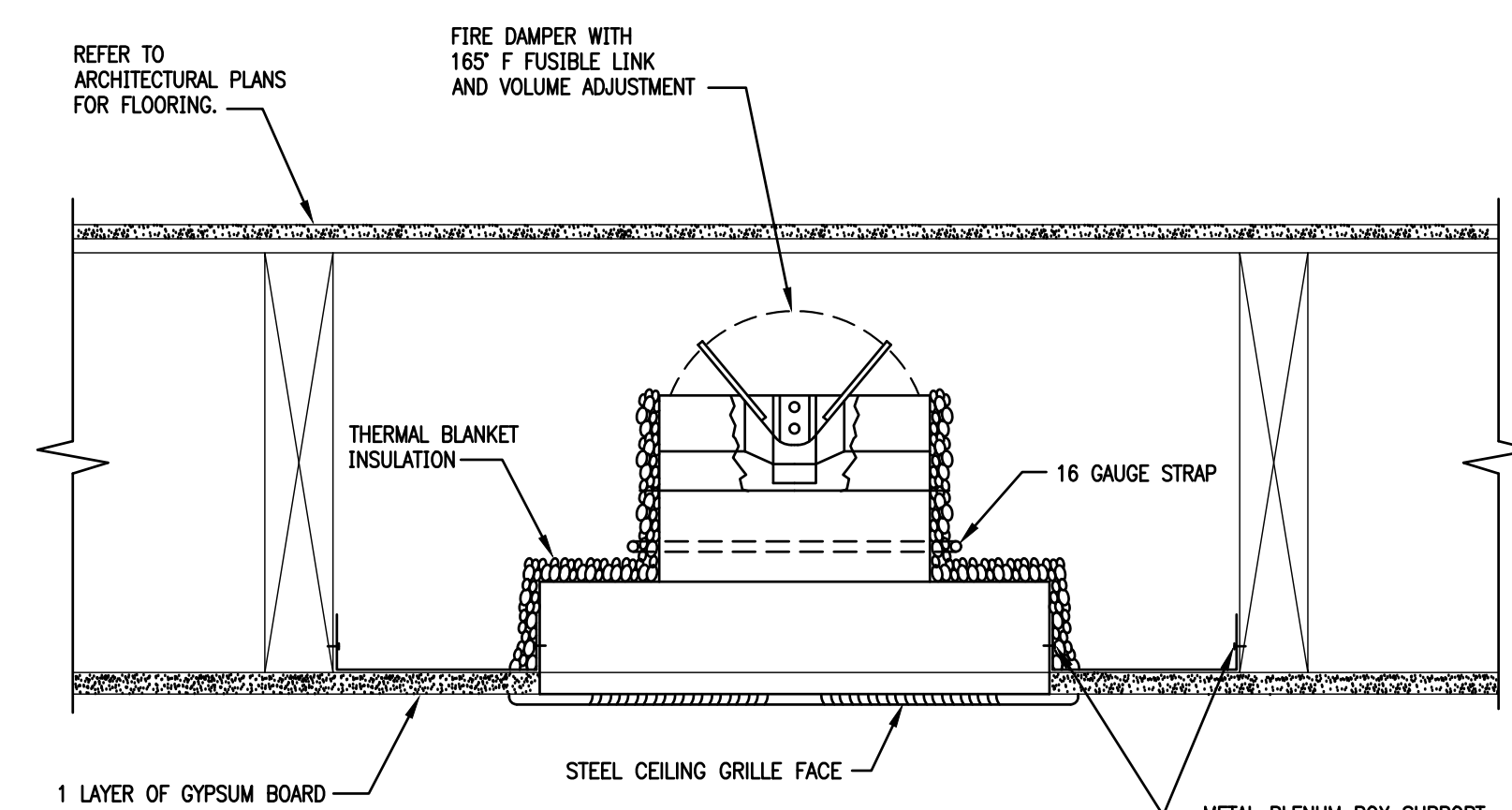
7
NTS
**RADIATION DAMPER DETAIL
(ATTIC SPACE INSTALLATION)**
POTTORFF CFD-521-BT / P522 ASSEMBLY



6
NTS
ROOF CAP DETAIL

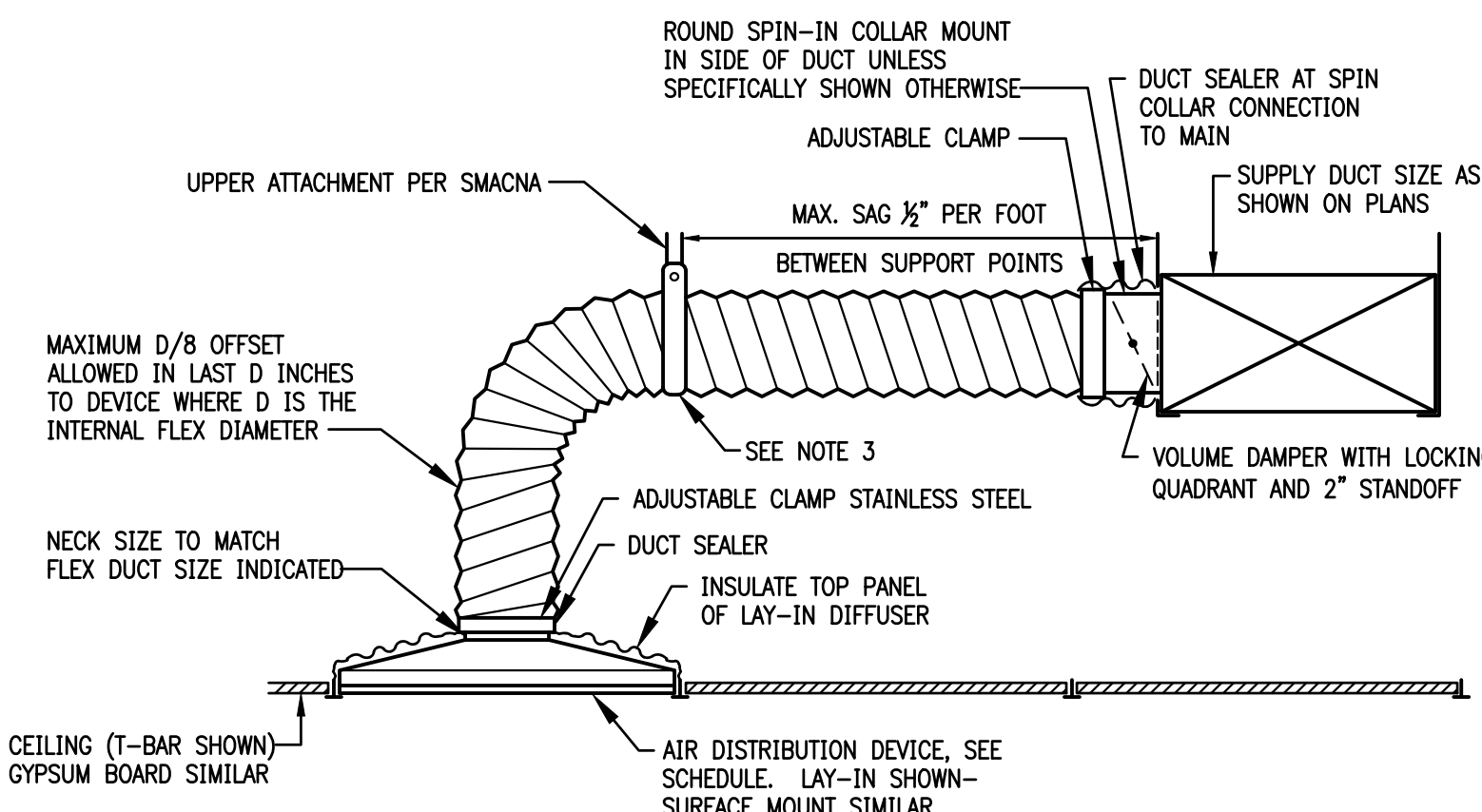


5
NTS
TYPICAL WALL JACK DETAIL



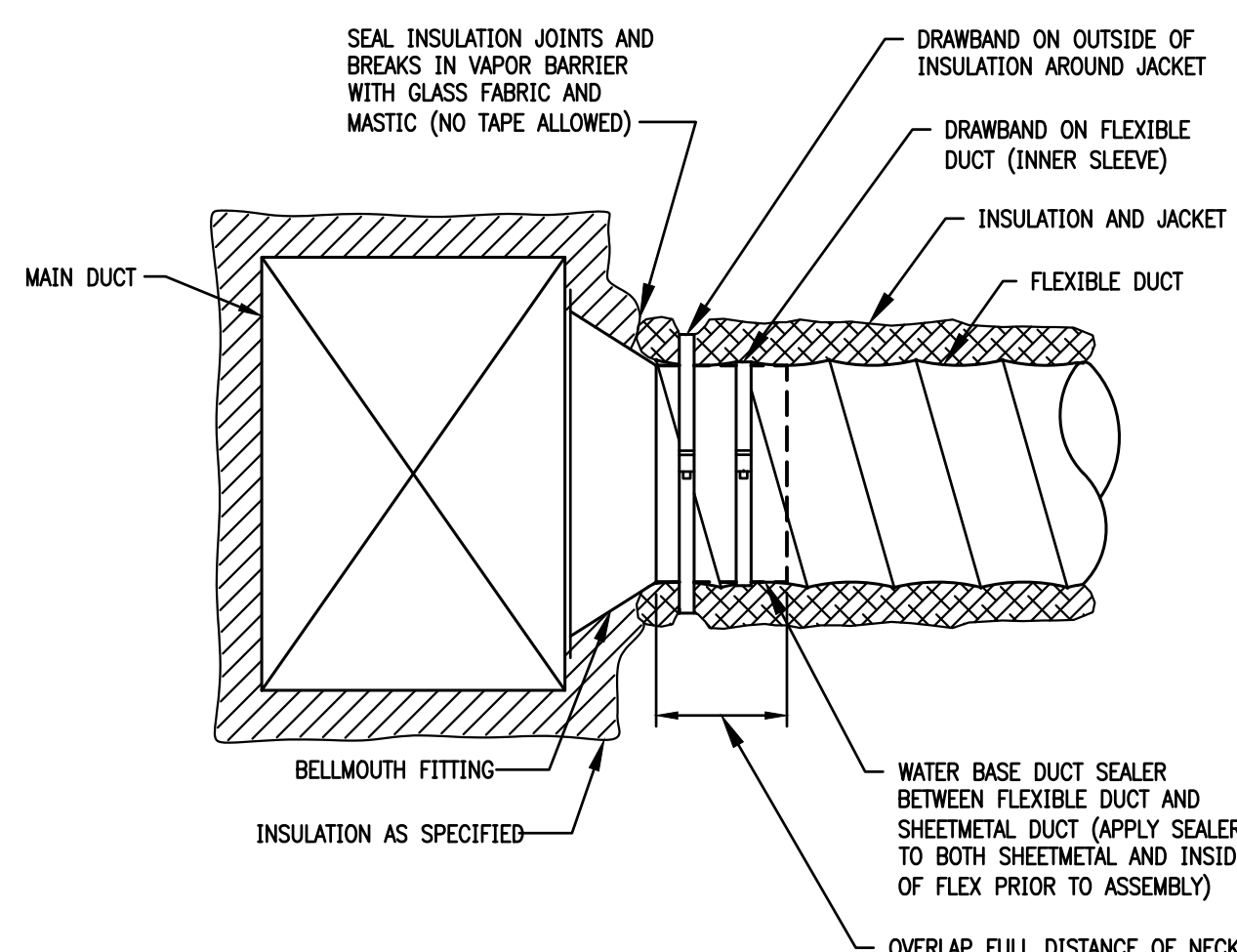
- NOTES:
1. DAMPER SHALL BE U.L. CLASSIFIED UNDER U.L. STANDARD 555.
 2. THERMAL BLANKET INSULATION SHALL BE U.L. CLASSIFIED UNDER U.L. STANDARD 555.
 3. APPLIES TO DIFFUSERS RETURN GRILLES AND TRANSFER GRILLES PENETRATING RATED CEILING.

4
NTS
**RADIATION DAMPER DETAIL
(FLOOR JOIST INSTALLATION)**
POTTORFF CFD-521-IP / L521 ASSEMBLY



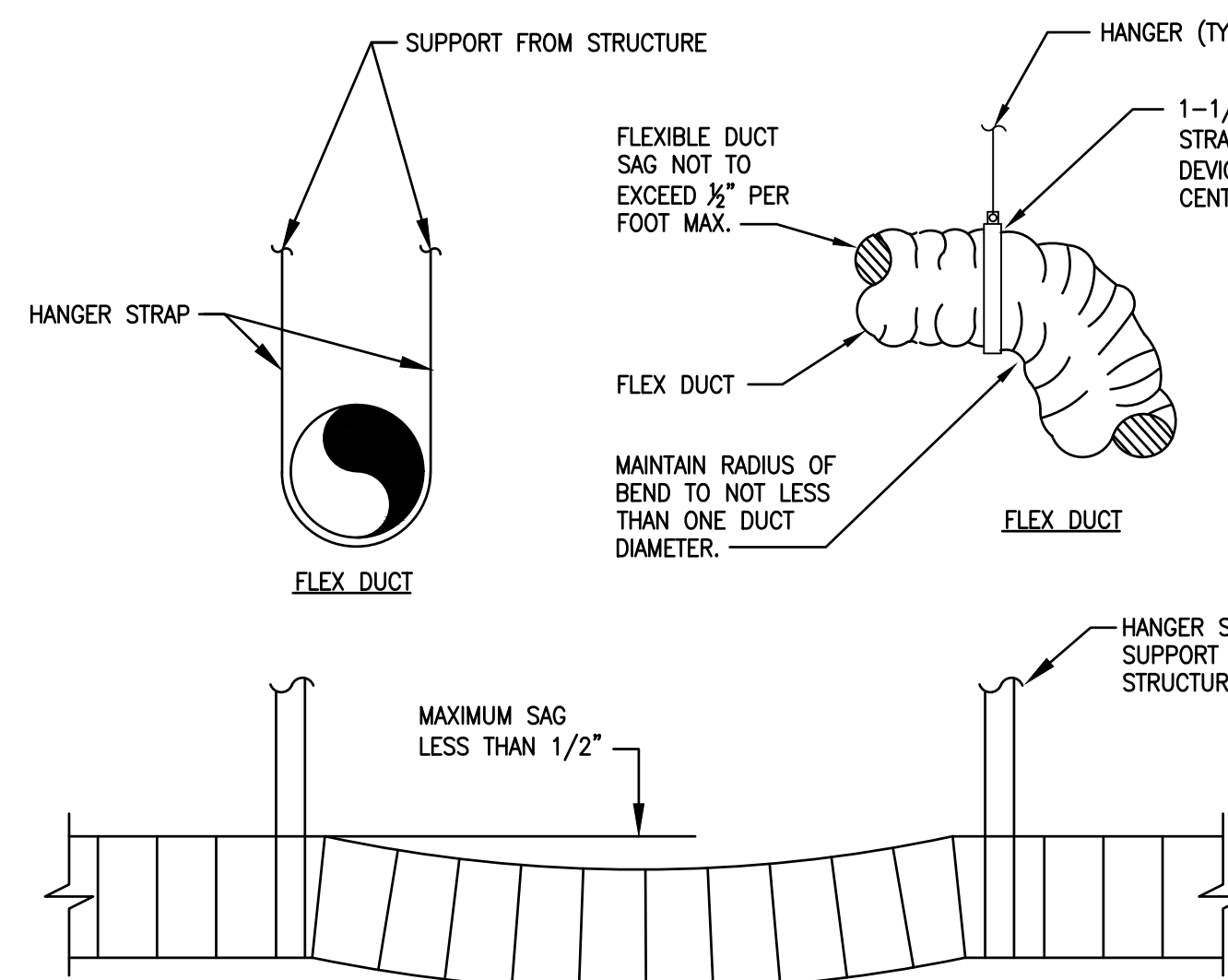
- NOTES:
1. EXTEND FLEXIBLE DUCT INSULATION TO DUCT/DIFFUSER PANEL INSULATION AND SEAL WITH MASTIC.
 2. MINIMUM 1-1/2\"/>

3
NTS
FLEXIBLE DUCT DETAIL



- NOTES:
1. TYPICAL FOR: LOW PRESSURE AND HIGH PRESSURE CONNECTION TO MAIN DUCT, FAN TERMINAL UNITS, VARIABLE AIR VOLUME UNITS, AND DIFFUSERS.
 2. DRAWBANDS SHALL BE EQUIVALENT TO PANOUT PLT-H.

2
NTS
FLEXIBLE DUCT CONNECTION DETAIL



- NOTES:
1. MAXIMUM SPACING BETWEEN HANGER LOCATIONS SHALL BE 5'-0\"/>

1
NTS
FLEX DUCT HANGER DETAIL

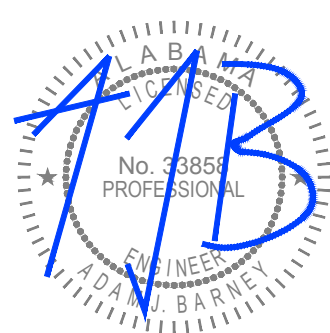


ISSUE HISTORY		
No.	Date	Description
1	04/15/22	Permit Submission
REVISION HISTORY		
No.	Date	Description

FUGLEBERG KOCH
2555 Temple Trail, Winter Park, FL 32789 (407) 629-0595
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CA NO. 4050 - E

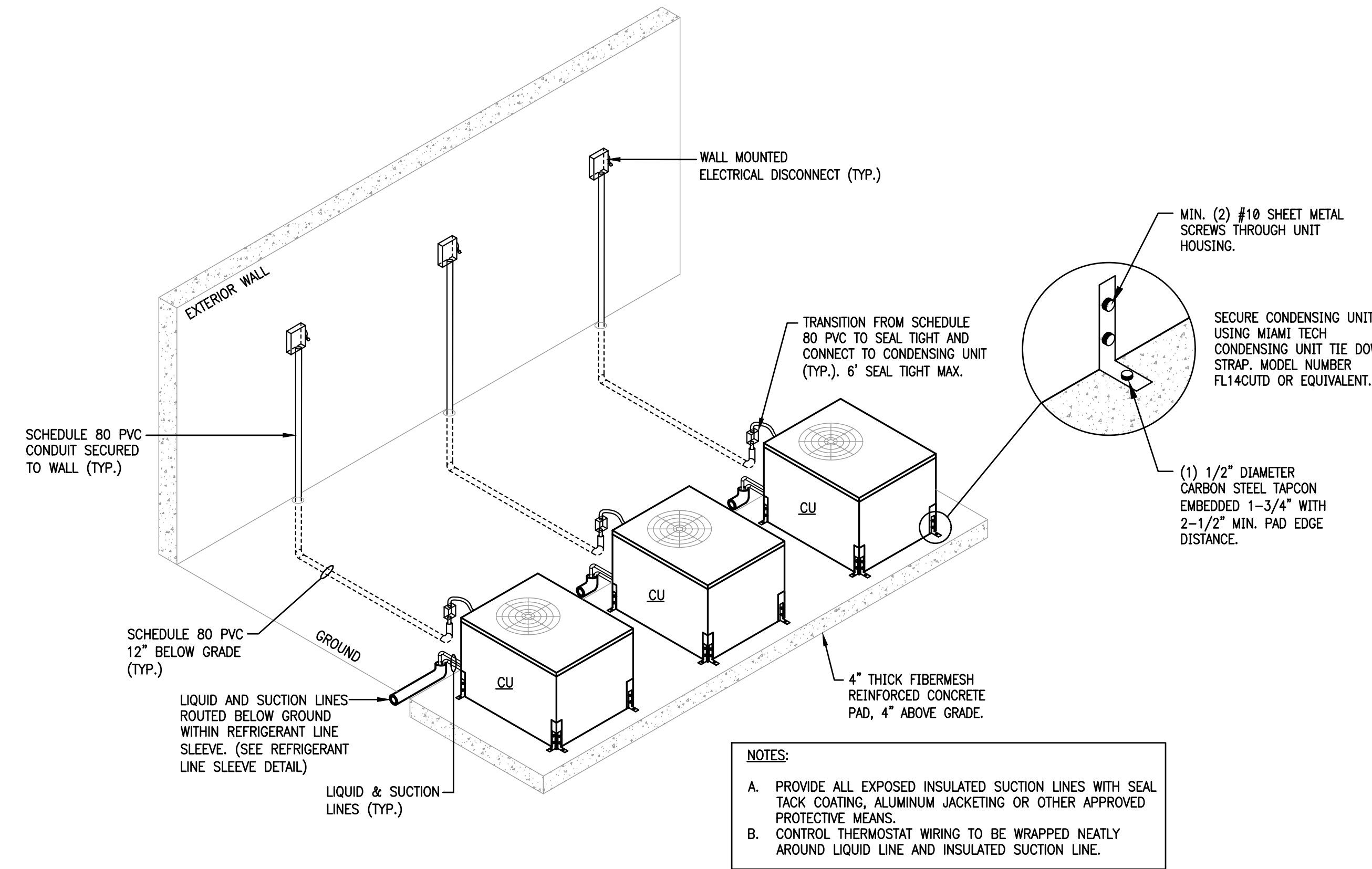
JLC 22.0023.00



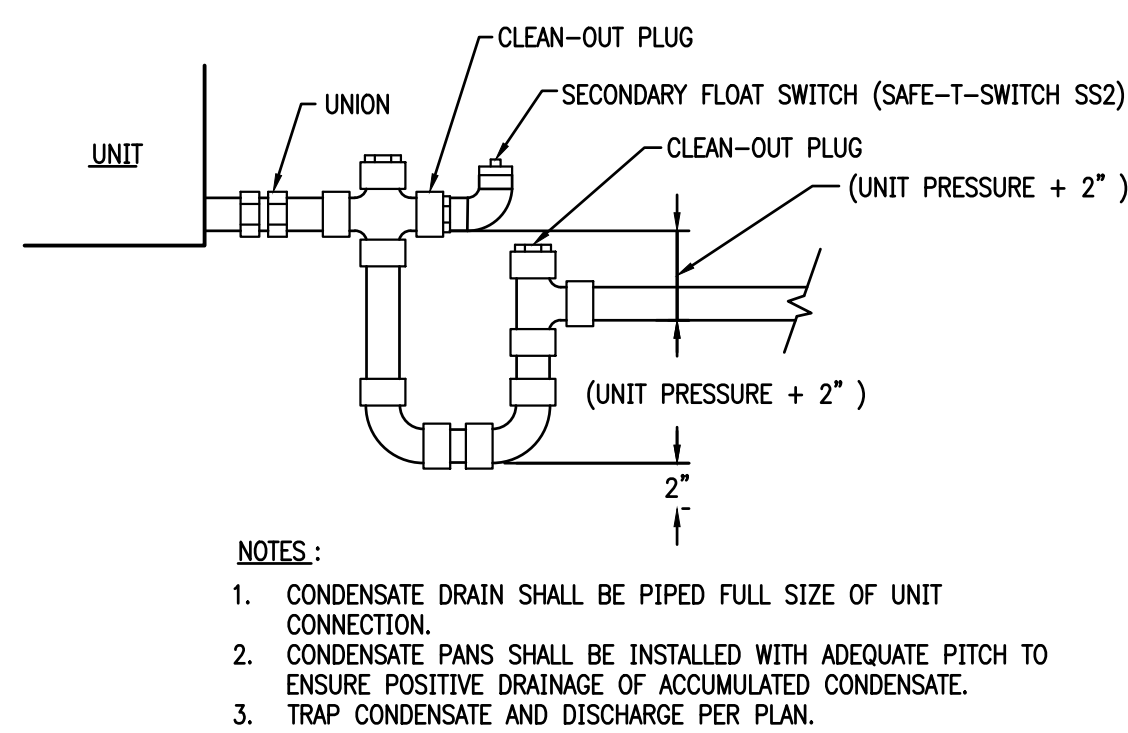
THE MADISON	Drawn: MJS/MB
HUNTSVILLE, AL	Checked: BLS/AJB
	Approved: BLS/AJB
	Date: 04/15/2022
	Project #: 5722

**DETAILS
MECHANICAL**

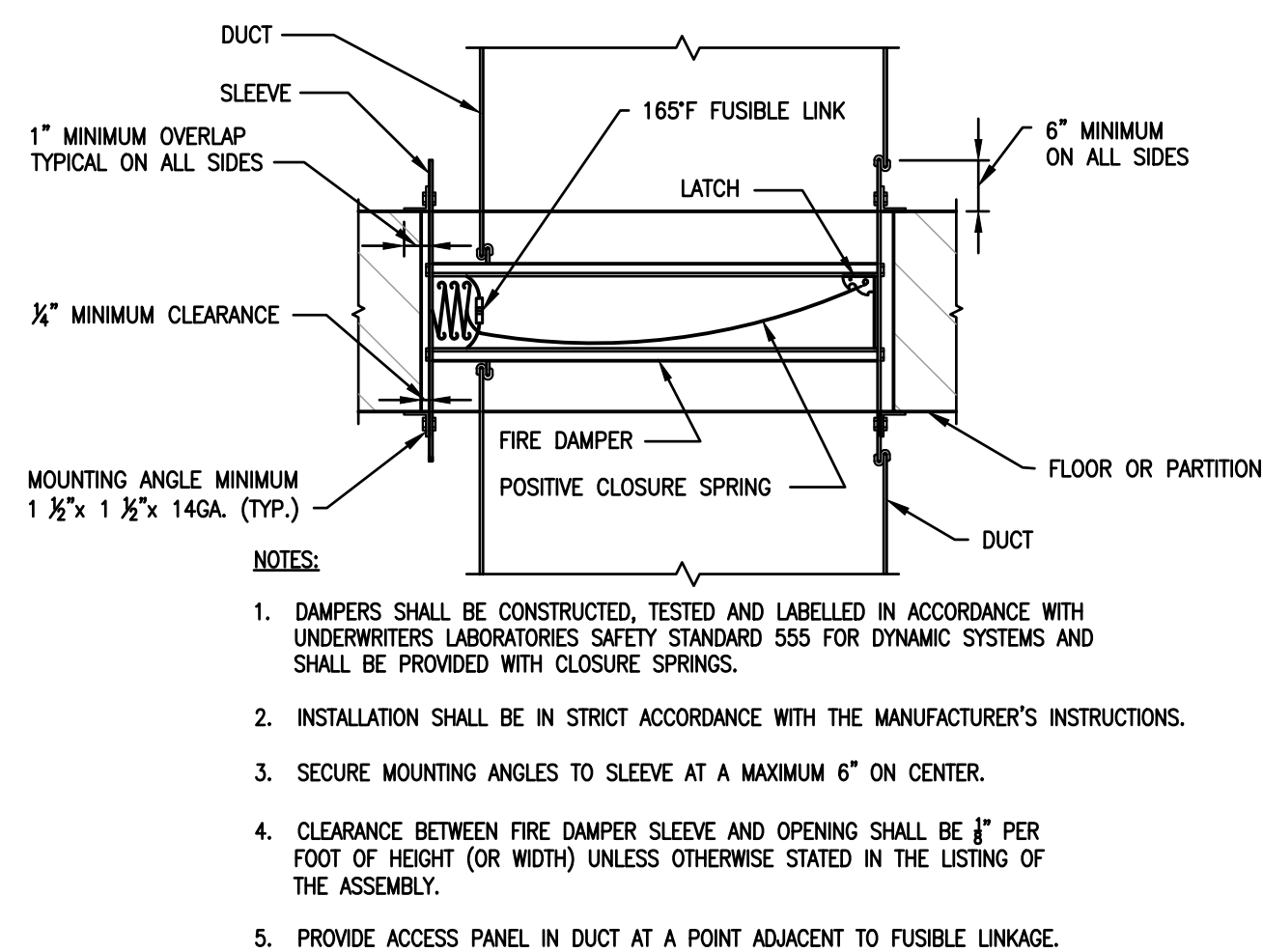
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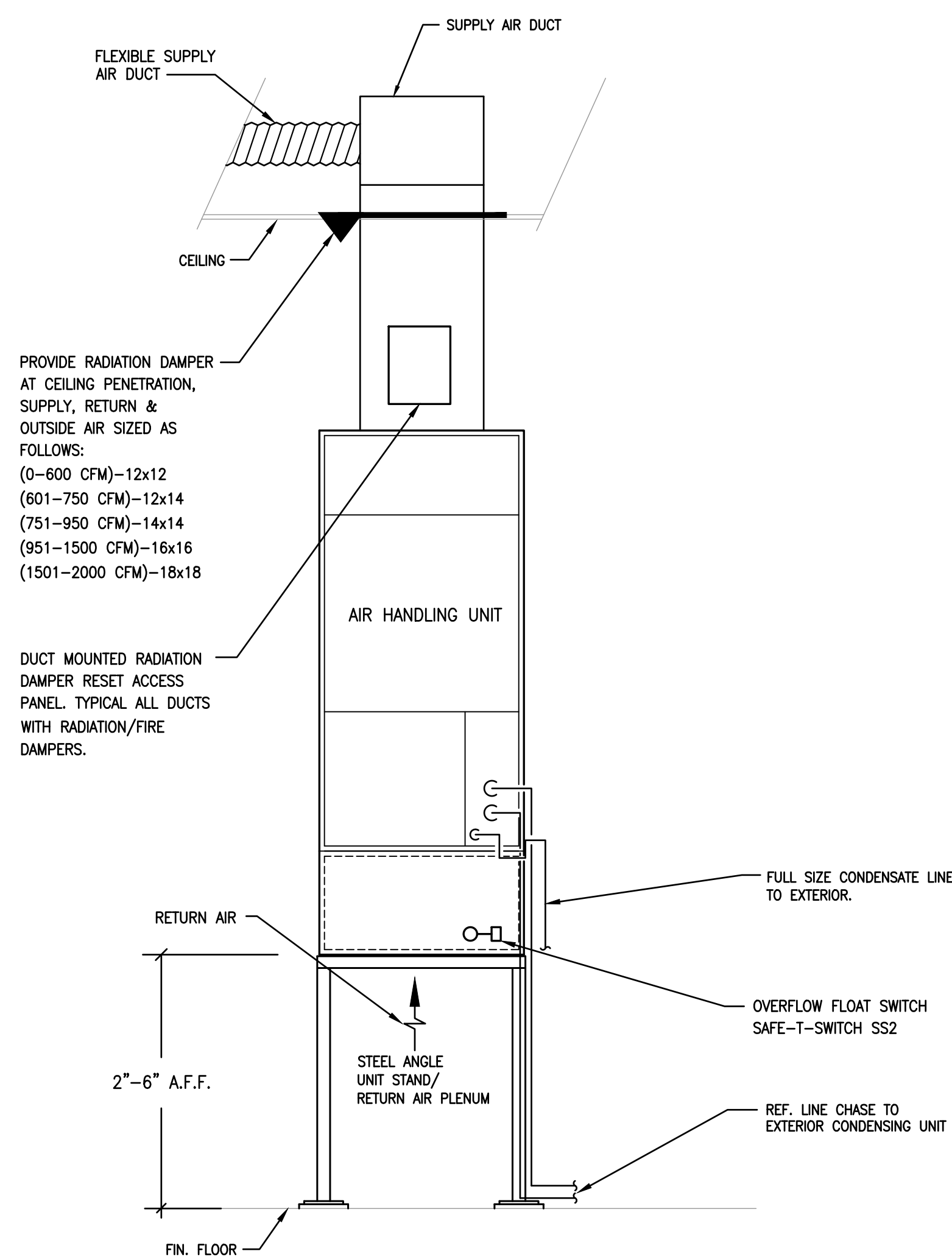
6
NTS
GROUND MOUNTED CONDENSING UNIT PIPING DETAIL
(REFRIGERANT & ELECTRICAL BELOW GRADE)



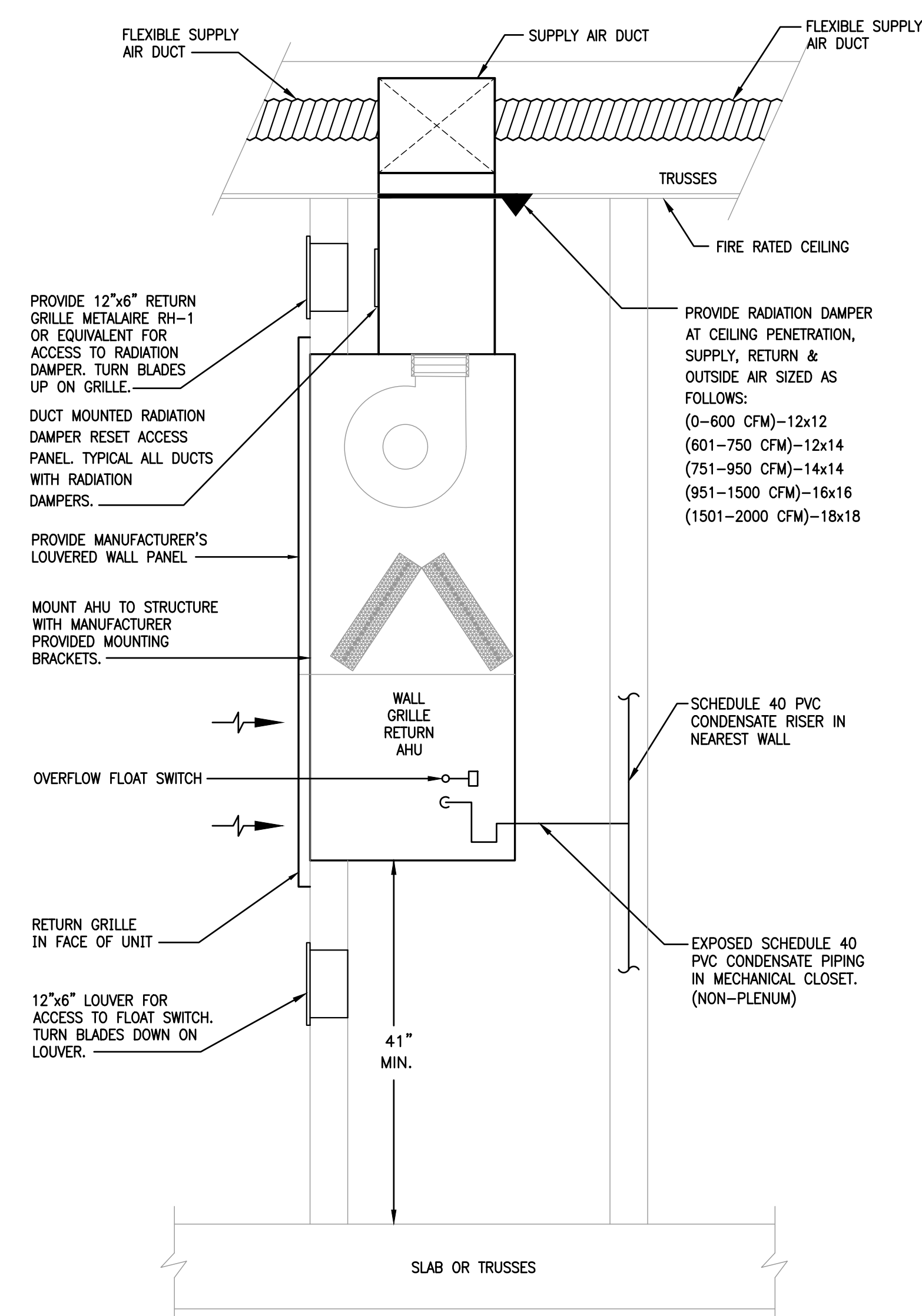
5
NTS
CONDENSATE DRAIN DETAIL



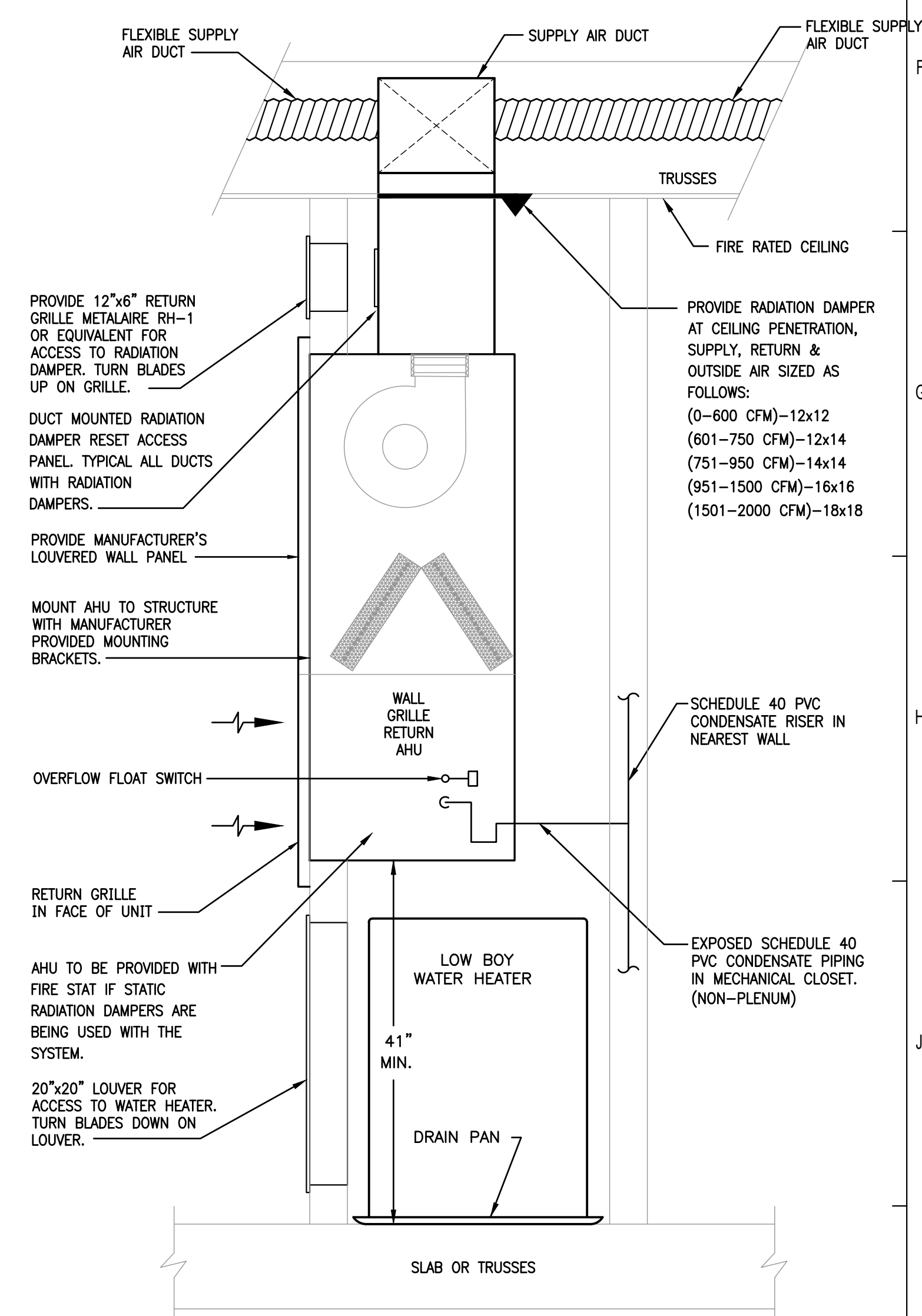
4
NTS
FIRE DAMPER DETAIL



3
NTS
VERTICAL AHU DETAIL
(UNIT 3C)



2
NTS
THRU WALL MOUNTED AHU DETAIL



1
NTS
CLOSET MOUNTED AHU DETAIL
UNITS

System No. F-C-8014

F Rating — 1 Hr

T Rating — 0 Hr

SECTION A-A

1. Floor — Ceiling Assembly — The 1 hr fire-rated wood joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory, as summarized below:

A. Floor System — Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture* as specified in individual Floor-Ceiling Design. Max diam of floor opening is 3 in.

B. Joists — Nom 10 in. deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members* with bridging as required and with end firestopped.

C. Gypsum Board* — Nom 5/8 in. thick as specified in the individual Floor-Ceiling Design. Max diam of openings is 3 in.

2. Chase Wall — (Optional) — The through penetrant (Item 2) may be routed through a 1 hr fire-rated single, double or staggered wood stud/gypsum wallboard chase wall shall be constructed of the materials and in the manner specified in the individual U300 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Nom 2 by 6 in. or double nom 2 by 4 in. lumber studs.

B. Sole Plate — Nom 2 by 6 in. or parallel 2 by 4 in. lumber plates, tightly butted.

C. Top Plate — The double top plate shall consist of two nom 2 by 6 in. or two sets of parallel 2 by 4 in. lumber plates, tightly butted. Max diam of openings is 3 in.

D. Gypsum Board* — Thickness, type, number of layers and fasteners shall be as specified in the individual Wall and Partition Design.

Hilti Firestop Systems

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Page: 1 of 2

System No. F-C-7013

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 1 Hr	F Rating — 1 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Rating — 1 Hr
	FTH Rating — 0 Hr

SECTION A-A

1. Floor-Ceiling Assembly — The 1 hr fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The general construction features of the floor-ceiling assembly are summarized below:

A. Flooring System — Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture* as specified in the individual Floor-Ceiling Design. Max diam of opening shall be 5-1/4 in. (133 mm).

B. Wood Joist* — Nom 10 in. (254 mm) deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members* with bridging as required and with ends firestopped.

C. Gypsum Board* — Nom 4 ft (1,2 m) wide by 5/8 in. (16 mm) thick as specified in the individual Floor-Ceiling Design. Max diam of opening shall be 5-1/4 in. (133 mm).

1.1 Chase Wall — (Not shown, Optional) The through penetrants (Item 2) may be routed through a 1 hr fire-rated single, double or staggered wood stud/gypsum wallboard chase wall having a fire rating consistent with that of the floor-ceiling assembly. The chase wall shall be constructed of the materials and in the manner specified in the individual U300 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Nom 2 by 6 in. (51 by 152 mm) lumber or double nom 2 by 4 in. (51 by 102 mm) lumber studs.

B. Sole Plate — Nom 2 by 6 in. (51 by 152 mm) lumber or parallel 2 by 4 in. (51 by 102 mm) lumber plates, tightly butted. Max diam of opening shall be 5-1/4 in.

C. Top Plate — The double top plate shall consist of two nom 2 by 6 in. (51 by 152 mm) lumber plates or two sets of nom 2 by 4 in. (51 by 102 mm) lumber plates tightly butted. Max diam of opening is 5-1/4 in. (133 mm).

D. Gypsum Board* — Thickness, type, number of layers and fasteners shall be as specified in Individual Wall and Partition Design.

Hilti Firestop Systems

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Page: 1 of 2

System No. W-L-7017

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 1 Hr	F Rating — 1 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Rating — 1 Hr
	FTH Rating — 0 Hr

SECTION A-A

1. Wall Assembly — The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.

B. Gypsum Board* — One layer of nom 5/8 in. (16 mm) thick gypsum board, as specified in the individual Wall and Partition Design. Max diam of opening is 8-5/8 in. (219 mm).

2. Metallic Sleeve — Nom 8 in. (203 mm) diam (or smaller) Schedule 40 (or heavier) steel sleeve cast into wall assembly with joint compound and installed flush with wall surfaces.

3. Air Duct — Nom 6 in. (152 mm) diam (or smaller) prefabricated No. 28 MSG galv sheet metal duct. A min 1/2 in. (13 mm) to max 1-1/2 in. (38 mm) annular space is required within the firestop system. Duct to be rigidly supported on both sides of wall assembly.

4. Forming Material* — Foamed plastic forming material foamed into opening as a permanent form. Forming material to be recessed from both surfaces of wall as required to accommodate the required thickness of fill material.

5. Fill, Void or Cavity Material* — Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

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

Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 26, 2015

System No. F-C-8014

F Rating — 1 Hr

T Rating — 0 Hr

3. Through-Penetrants — Pipes, conduits, tubing and cables to be bundled and centered in the opening. The space between penetrants and the periphery of the opening shall be min 1/4 in. to max 3/4 in. Penetrants to be rigidly supported on both sides of the floor-ceiling assembly.

A. Metallic Pipes — A max of two metallic pipes, conduits or tubing, (one 3/4 in. diam and one 1/2 in. diam) to be installed within the firestop system. The following types and sizes of metallic pipes, conduits or tubing may be used:

A1. Steel Pipe — Nom 3/4 in. diam (or smaller) Schedule 5 (or heavier) steel pipe.

A2. Conduit — Nom 3/4 in. diam (or smaller) steel electrical metallic tubing or steel conduit.

A3. Copper Tubing — Nom 3/4 in. diam (or smaller) Type L (or heavier) copper tubing.

A4. Copper Pipe — Nom 3/4 in. diam (or smaller) Regular (or heavier) copper pipe.

B. Nonmetallic Pipes — A max of one nonmetallic pipe to be installed within the firestop system. The following types and sizes of nonmetallic pipes may be used:

B1. Polyvinyl Chloride (PVC) Pipe — Nom 1/2 in. diam (or smaller) Schedule 40 solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

B2. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 1/2 in. diam (or smaller) SDR17 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

C. Cables — A max of two 4/C No. 18 AWG (or smaller) thermostat cables with PVC insulation and PVC/nylon jacketing material.

D. Tube Insulation — Plastic+ — Nom 1/2 in. thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. Tube insulation to be installed on a max of one metallic pipe or tubing.

See Plastics+ (QMFZ2) category in the Plastics Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL 94 Flammability Classification of 94-VA may be used.

4. Fill, Void or Cavity Material* — Sealant — Min 3/4 in. thickness of fill material applied within the annulus, flush with top surface of floor or sole plate. Min 5/8 in. thickness of fill material applied within the annulus, flush with the bottom surface of the ceiling or lower top plate.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS — ONE Sealant

*Bearing the UL Classification Marking
*Bearing the UL Recognized Component Mark

Hilti Firestop Systems

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Page: 2 of 2

System No. F-C-7013

2. Steel Duct — Nom 4 in. (102 mm) diam (or smaller) No. 28 gauge (or heavier) steel duct to be installed either concentrically or eccentrically within the firestop system. The annular space between duct and periphery of opening shall be min of 1/4 in. (6 mm) to max 3/4 in. (19 mm). Steel duct to be rigidly supported on both sides of floor-ceiling assembly.

3. Fill, Void or Cavity Materials*—Sealant — Min 3/4 in. (19 mm) thickness of sealant applied within the annular space, flush with top surface of floor or sole plate. Min 5/8 in. (16 mm) thickness of sealant applied within annular space, flush with bottom surface of gypsum board or lower top plate.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

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

Hilti Firestop Systems

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Page: 2 of 2

U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

ISSUE HISTORY

No.	Date	Description
1	04/15/22	Permit Submission

REVISION HISTORY

No.	Date	Description

Joseph, Lawrence & Co.
Consulting Engineers

1880 HARWOOD AVE, SUITE 3000
ALTA MONTA SPRINGS, FLORIDA 32714
TEL: 321.972.4466
WWW.JLCENG.COM
CA NO. 4050 - E

JLC 22.0023.00

THE MADISON

HUNTSVILLE, AL

5722

DETAILS
MECHANICAL

M6.04

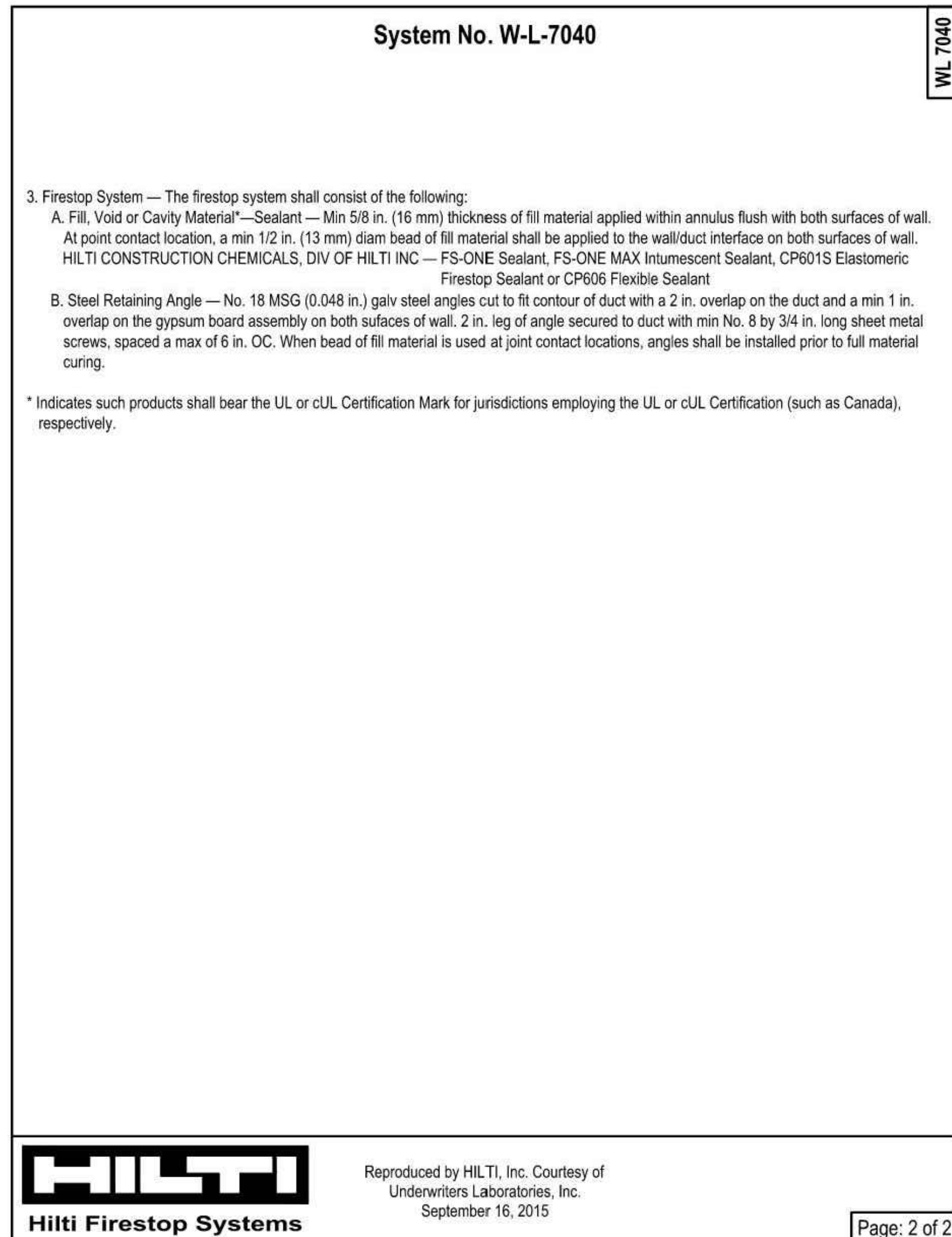
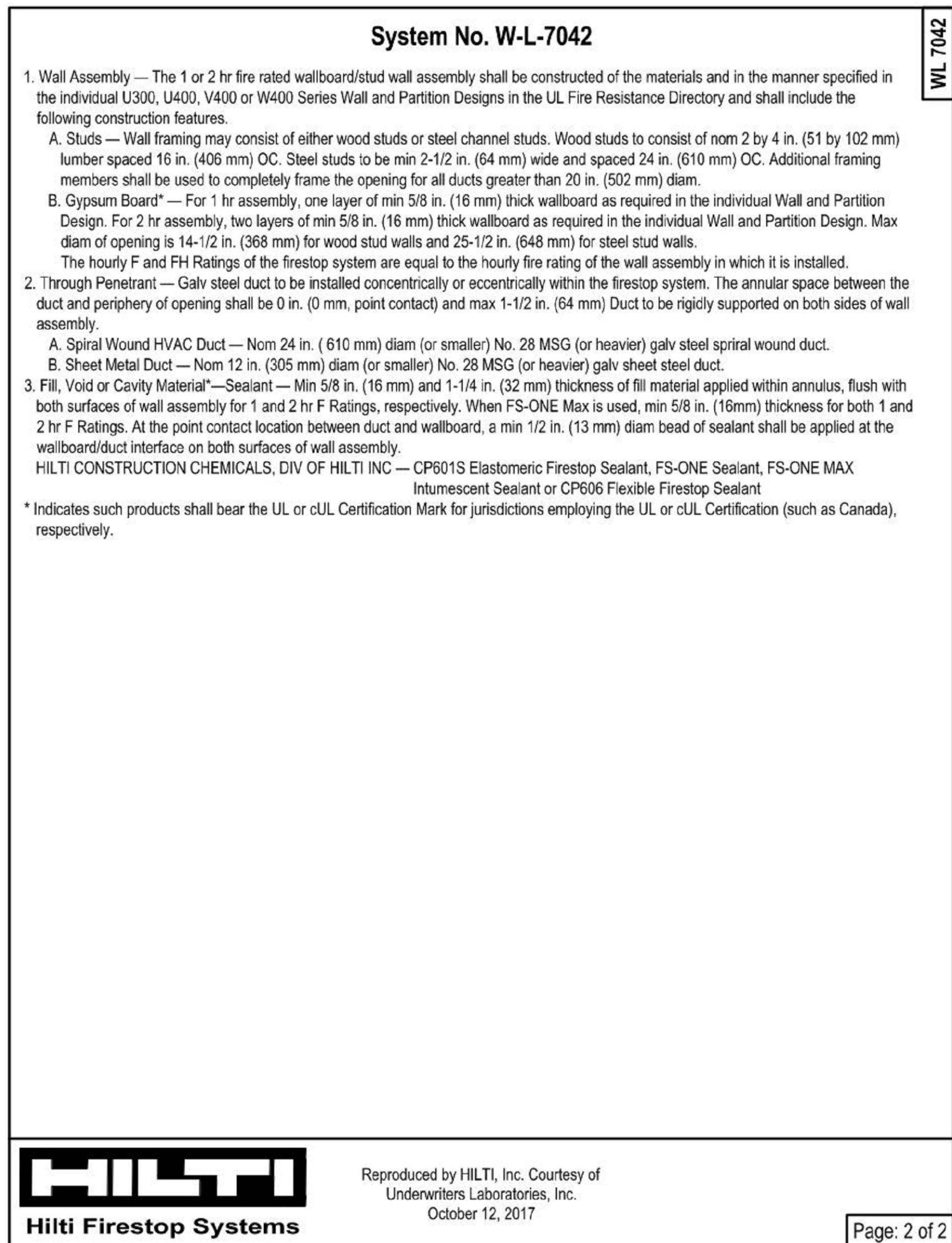
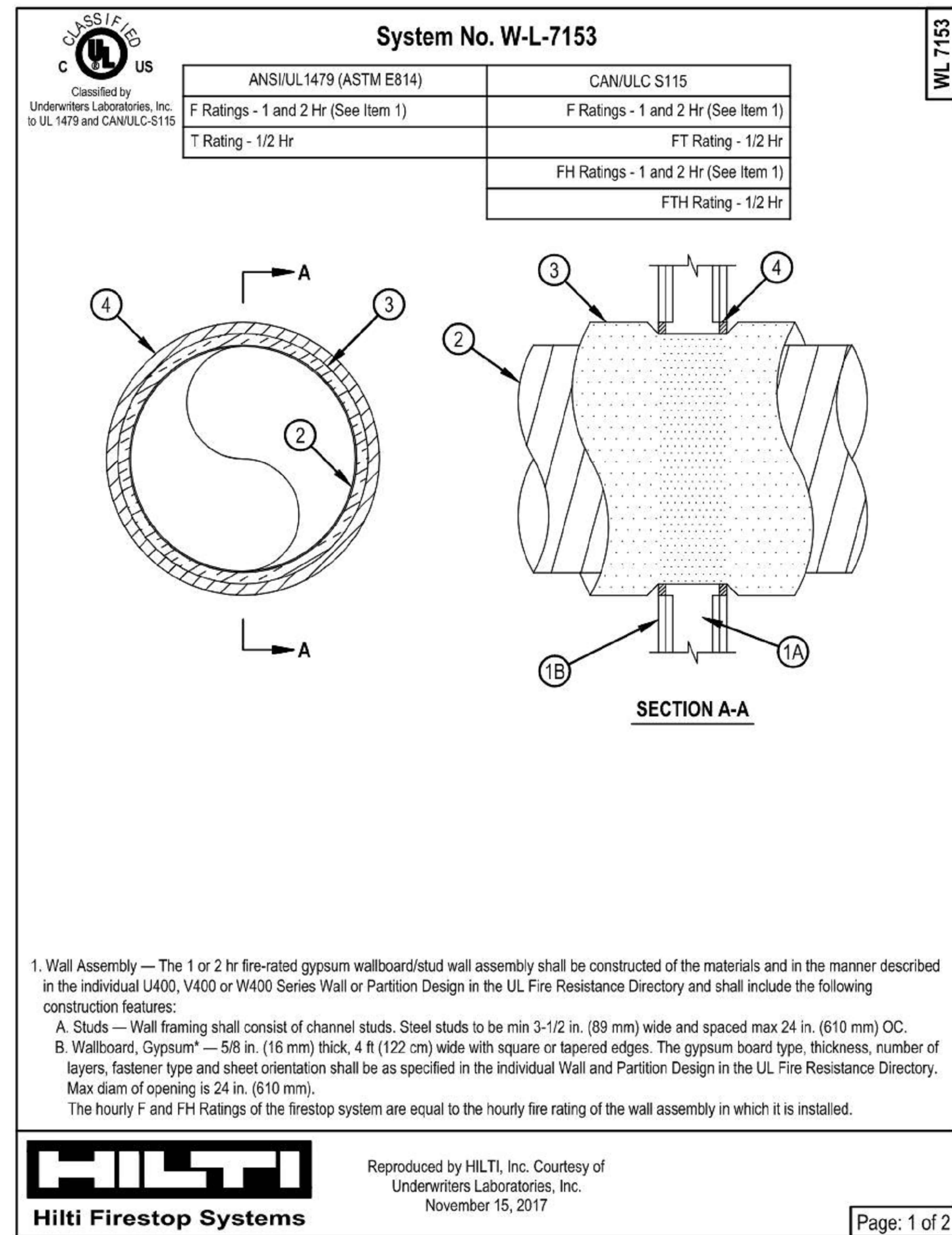
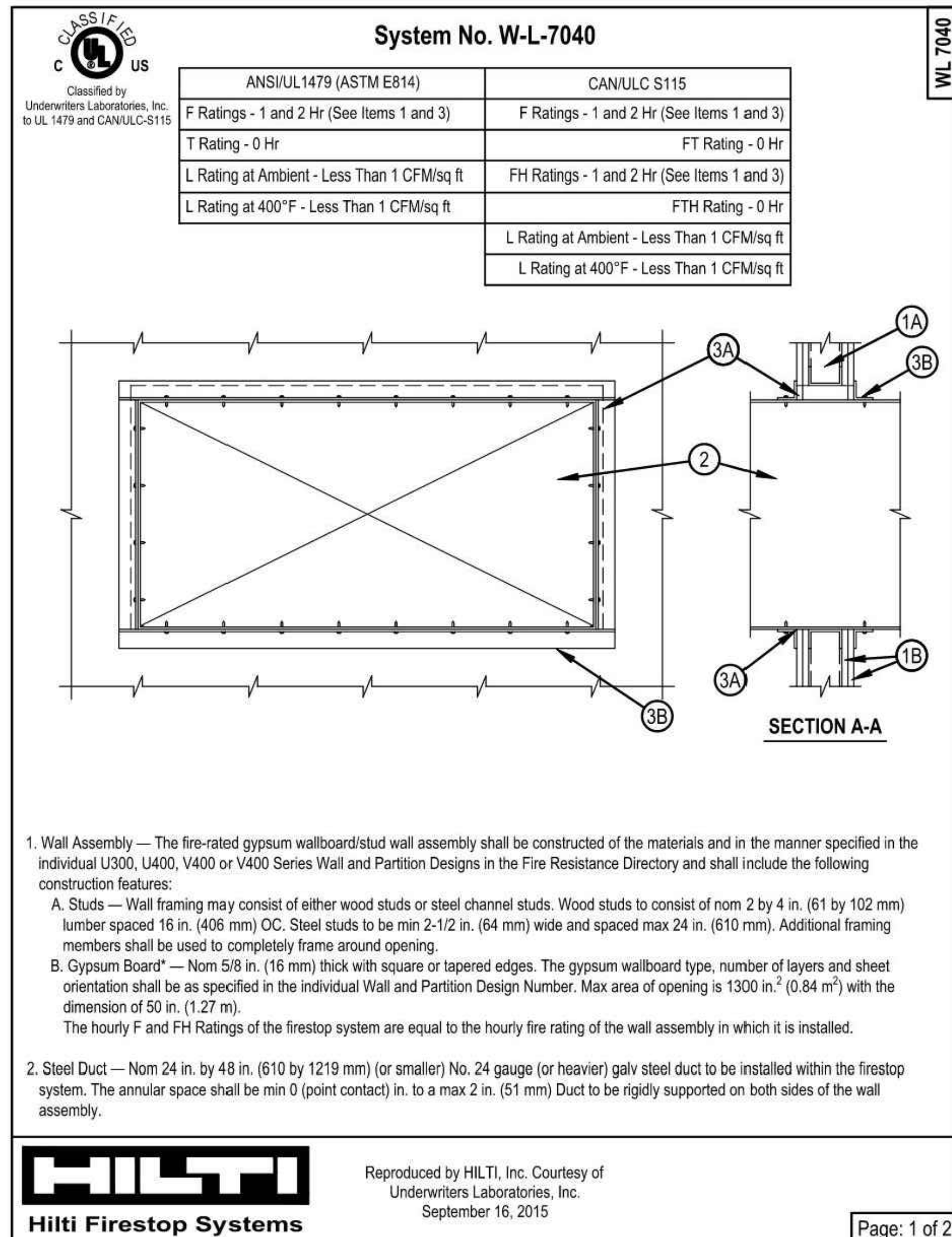
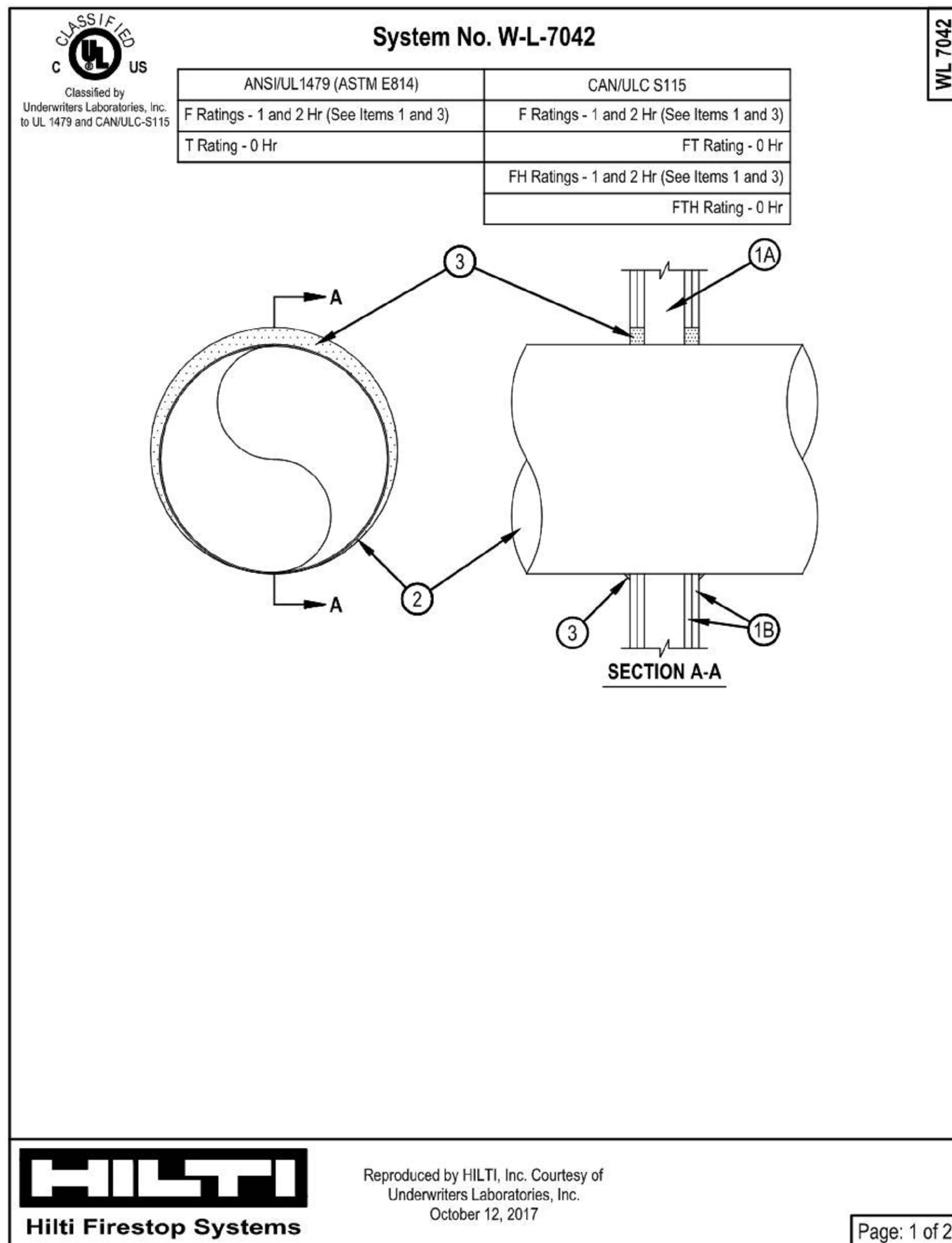
Drawn: MJS/MB

Checked: BLSA/B

Approved: BLSA/B

Date: 04/15/2022

Project #: 5722



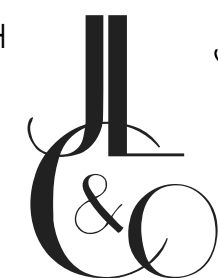
ISSUE HISTORY		
No.	Date	Description
1	04/15/22	Permit Submission

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<h1>THE MADISON</h1> <p>HUNTSVILLE, AL</p>	Date:	MUR/SM
	Checked:	BL/SA/J
	Approval:	BL/SA/J
	Date:	04/15/2022
	Project #:	5722

DETAILS MECHANICAL

M6.05

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Page: 1 of 2

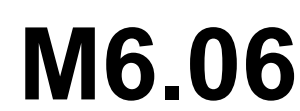
Page: 1 of 2


 F-C-7060
 PAGE 1 OF 2

Page: 2 of 2

Page: 2 of 2


F-C-706
PAGE 2 OF 2



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1 2 3 4 5 6 7 8 9 10 11 12



ALABAMA DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

ISSUE HISTORY

No.	Date	Description
1	04/15/22	Permit Submission

REVISION HISTORY


No.	Date	Description

CONTRACT

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Owner:	MRSMB
Checked:	BLSAJB
Approved:	BLSAJB
Date:	04/15/2022
Project #:	572

THE MADISON

HUNTSVILLE, AL

**ENERGY CALCULATIONS
MECHANICAL**

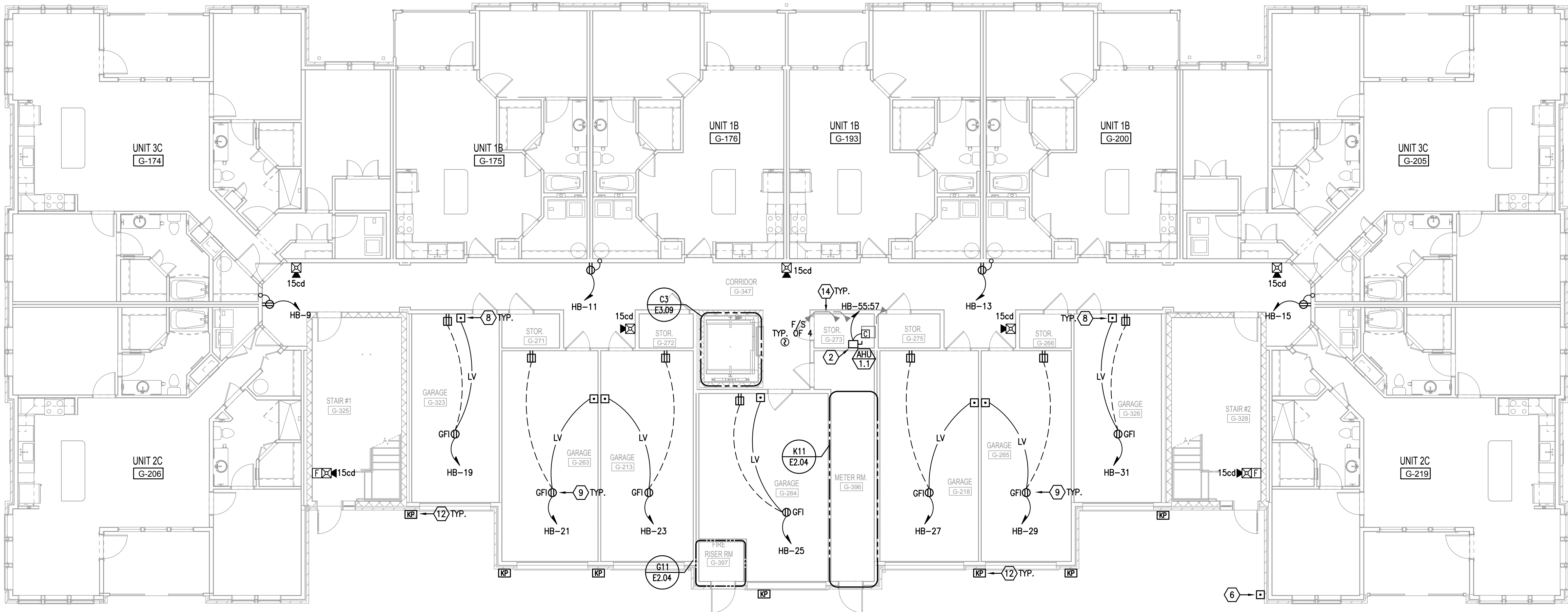
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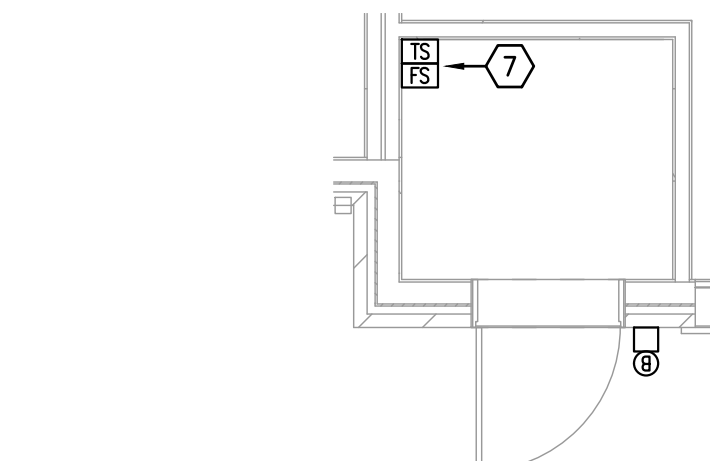
- GENERAL NOTES:**
- DO NOT SCALE ELECTRICAL DRAWING FOR ANY DIMENSIONS.
 - ALL WORK SHALL COMPLY WITH THE 2017 NATIONAL ELECTRICAL CODE, NATIONAL, STATE AND LOCAL CODES. PROVIDE GROUNDING AND BONDING PER NEC 250.
 - SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC. ALL CONDUCTORS SHALL HAVE AN EQUIPMENT GROUND WIRE SIZED PER NEC.
 - FIELD VERIFY EXACT LOCATION OF ALL DEVICES AND EQUIPMENT PRIOR TO ROUGH IN.
 - REFER TO ENLARGED TYPICAL UNIT PLANS FOR ALL ELECTRICAL IN UNITS.

- REFERENCE NOTES:** (X)
- PROVIDE TWO-WAY COMMUNICATION SYSTEM AND CABLE TO MAIN BASE STATION AS REQUIRED BY 2018 NFPA 70, AND 2018 NFPA 101 LIFE SAFETY CODE. COORDINATE LOCATION WITH OWNER AND AUTHORITY HAVING JURISDICTION PRIOR TO ROUGH-IN.
 - ELECTRICAL CONTRACTOR SHALL COORDINATE DISCONNECT AND FUSE REQUIREMENTS FOR MECHANICAL UNIT WITH MECHANICAL CONTRACTOR AND EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN AND PROVIDE AS REQUIRED. COORDINATE LOCATION OF DISCONNECT WITH OWNER AND MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. LOCATE AS REQUIRED TO MAINTAIN NEC CLEARANCES.
 - COORDINATE EXACT LOCATION WITH THE ELECTRIC UTILITY AND ARCHITECTURAL PLANS. VERIFY 3'-0" CLEARANCE EXISTS IN FRONT OF METER CENTER AND HOUSE PANEL. A MAXIMUM OF 6'-6" SHALL BE MAINTAINED FROM GRADE TO THE CENTER OF THE HIGHEST METER.
 - PROVIDE 2" UNDERGROUND CONDUIT FROM FACP BACK TO MASTER FACP LOCATED IN CLUBHOUSE. REFER TO FIRE ALARM RISER DIAGRAM FOR ADDITIONAL INFORMATION.
 - CONNECT INTERIOR MECHANICAL MINI-SPLIT UNIT MAU-1 THROUGH EXTERIOR UNIT MCU-1. CONNECT PER MANUFACTURER'S RECOMMENDATIONS, AND PROVIDE ALL CONTROL WIRING, CONDUIT, ETC. AS REQUIRED.
 - COORDINATE EXACT LOCATION OF BUILDING SHUNT TRIP WITH FIRE MARSHALL PRIOR TO ROUGH-IN. SHUNT TRIP TO SHUT OFF ELECTRICAL SERVICE TO MCIB.
 - COORDINATE EXACT LOCATION OF TAMPER AND FLOW SWITCHES WITH FIRE PROTECTION DRAWINGS PRIOR TO ROUGH-IN.
 - PROVIDE PUSHBUTTON CONTROL AND LOW VOLTAGE WIRING FOR GARAGE DOOR OPENER AS REQUIRED BY OWNER/MANUFACTURER.
 - PROVIDE 120V CEILING MOUNTED OUTLET FOR GARAGE DOOR OPENER. COORDINATE LOCATION WITH DOOR INSTALLER PRIOR TO ROUGH-IN. PROVIDE LOW VOLTAGE WIRING AND PUSH BUTTON LOCATED NEAR DOOR AS REQUIRED.
 - GARAGE EXHAUST FAN TO BE CONTROLLED BY CARBON MONOXIDE DETECTOR PROVIDED BY MECHANICAL CONTRACTOR. CONNECT FAN TO LIGHTING CIRCUIT SERVING GARAGE. REFER TO LIGHTING PLAN FOR ADDITIONAL INFORMATION.
 - PROVIDE 120V CONNECTION TO CARBON MONOXIDE SENSOR PROVIDED BY MECHANICAL CONTRACTOR. COORDINATE CONTROL WIRING WITH MECHANICAL CONTRACTOR AND PROVIDE AS REQUIRED. CONNECT TO LOCAL GARAGE CIRCUIT.
 - PROVIDE EXTERIOR GARAGE DOOR KEYPAD. COORDINATE LOCATION AND REQUIREMENTS WITH GARAGE DOOR INSTALLER. PROVIDE LOW VOLTAGE WIRING AS REQUIRED.
 - ELECTRICAL CONTRACTOR SHALL PROVIDE (1) 8"x8" JUNCTION BOX WITH COVERPLATE ON EACH FLOOR OF BUILDING FOR FUTURE DAS SYSTEM IF REQUIRED. PROVIDE 27C (EMPTY W/ PULLSTRING) BETWEEN ALL JUNCTION BOXES FOR FUTURE DAS SYSTEM WIRING. COORDINATE LOCATION OF JUNCTION BOXES WITH OWNER AND FIRE ALARM CONTRACTOR PRIOR TO ROUGH-IN. LABEL ALL JUNCTION BOXES, COVERPLATE AND CONDUIT AS REQUIRED FOR FUTURE IDENTIFICATION.
 - PROVIDE 120V CIRCUIT FOR CONNECTION OF FIRE/SMOKE DAMPER. CONNECT TO CIRCUIT HA-39. COORDINATE LOCATION AND CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

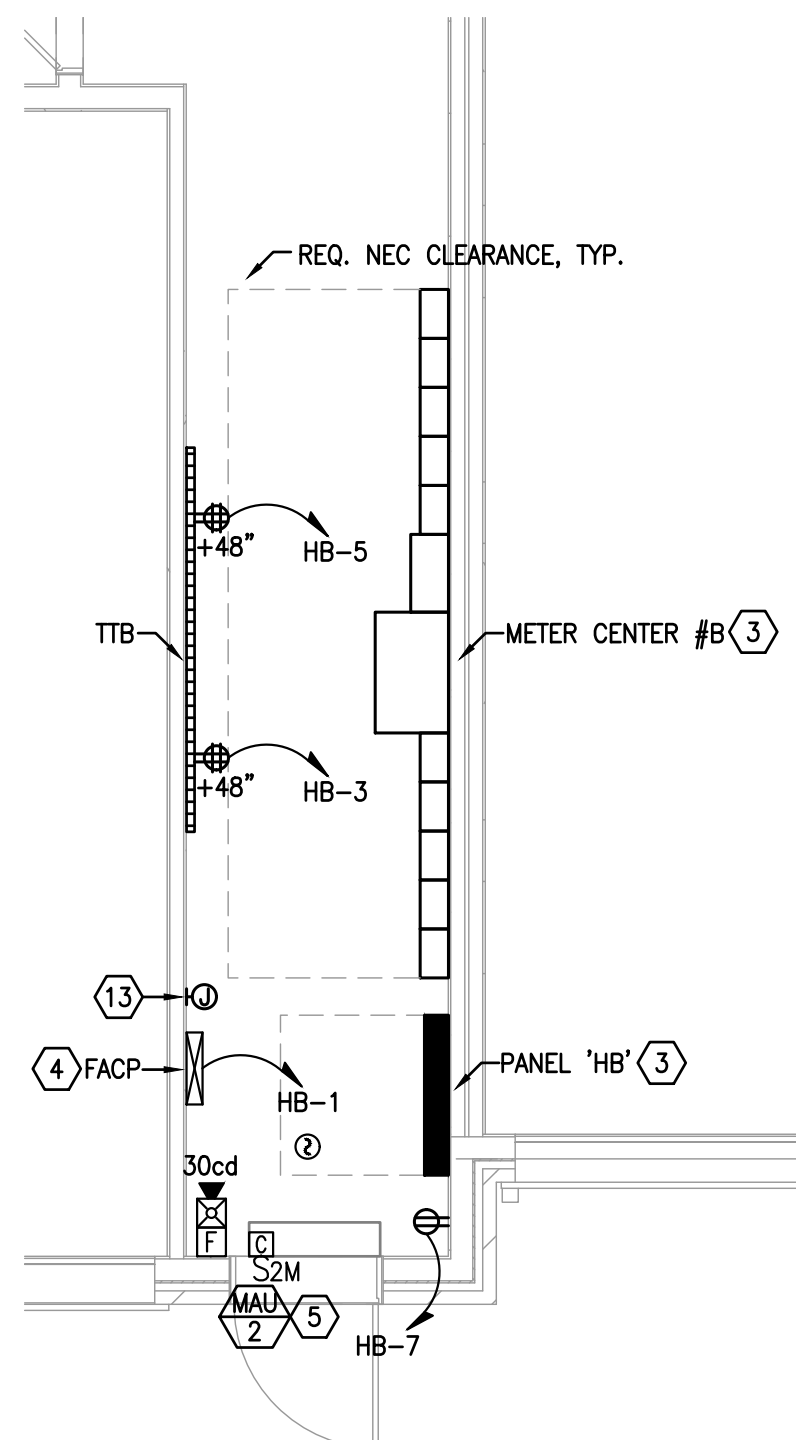
F1 BUILDING TYPE B - 2ND LEVEL - POWER & SYSTEMS
1/8" = 1'-0"



K1 BUILDING TYPE B - GROUND LEVEL - POWER & SYSTEMS
1/8" = 1'-0"



G11 ENLARGED PLAN - FIRE RISER ROOM
1/4" = 1'-0"



K11 ENLARGED PLAN - ELEC. ROOM
1/4" = 1'-0"



ISSUE HISTORY

No.	Date	Description
1	04/15/22	Permit Submission

REVISION HISTORY

No.	Date	Description



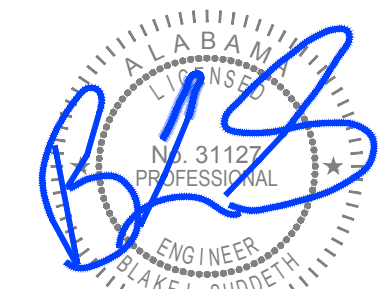
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CA NO. 4050 - E

JLC 22.0023.00



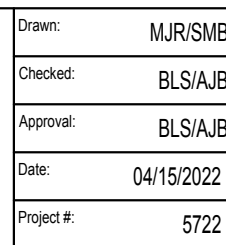
THE MADISON

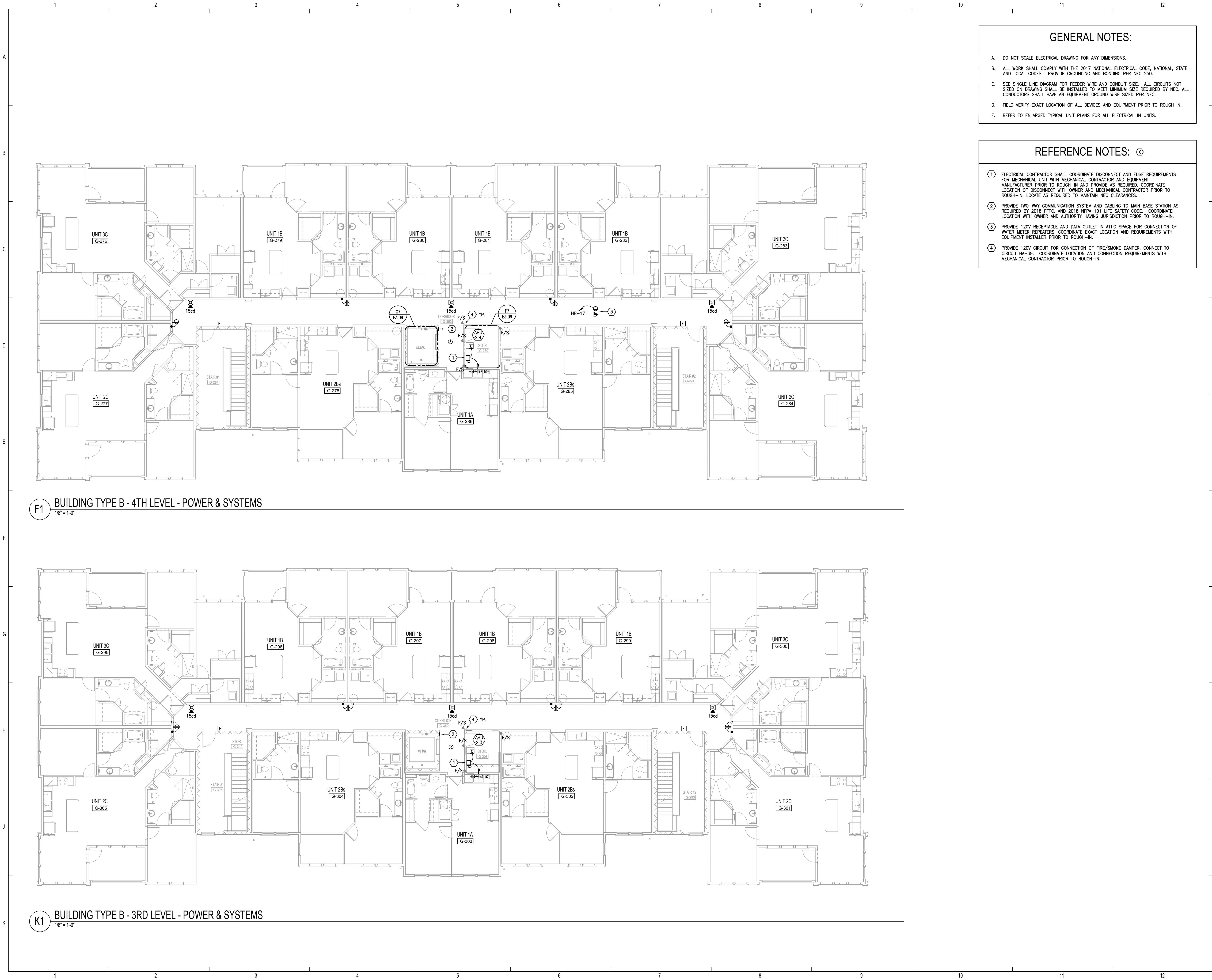
HUNTSVILLE, AL

**BUILDING TYPE B
GROUND & 2ND LEVEL
POWER & SYSTEMS**

E2.04


Drawn:	MJRSMB
Checked:	BLSAJB
Approved:	BLSAJB
Date:	04/15/2022
Project #:	5722





- GENERAL NOTES:**
- A. DO NOT SCALE ELECTRICAL DRAWING FOR ANY DIMENSIONS.
 - B. ALL WORK SHALL COMPLY WITH THE 2017 NATIONAL ELECTRICAL CODE, NATIONAL, STATE AND LOCAL CODES. PROVIDE GROUNDING AND BONDING PER NEC 250.
 - C. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC. ALL CONDUCTORS SHALL HAVE AN EQUIPMENT GROUND WIRE SIZED PER NEC.
 - D. FIELD VERIFY EXACT LOCATION OF ALL DEVICES AND EQUIPMENT PRIOR TO ROUGH IN.
 - E. REFER TO ENLARGED TYPICAL UNIT PLANS FOR ALL ELECTRICAL IN UNITS.


- REFERENCE NOTES:** ⓧ
- ① ELECTRICAL CONTRACTOR SHALL COORDINATE DISCONNECT AND FUSE REQUIREMENTS FOR MECHANICAL UNIT WITH MECHANICAL CONTRACTOR AND EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN AND PROVIDE AS REQUIRED. COORDINATE LOCATION OF DISCONNECT WITH OWNER AND MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. LOCATE AS REQUIRED TO MAINTAIN NEC CLEARANCES.
 - ② PROVIDE TWO-WAY COMMUNICATION SYSTEM AND CABLE TO MAIN BASE STATION AS REQUIRED BY 2018 NFPA 101 LIFE SAFETY CODE. COORDINATE LOCATION WITH OWNER AND AUTHORITY HAVING JURISDICTION PRIOR TO ROUGH-IN.
 - ③ PROVIDE 120V RECEPTACLE AND DATA OUTLET IN ATTIC SPACE FOR CONNECTION OF WATER METER REPEATERS. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
 - ④ PROVIDE 120V CIRCUIT FOR CONNECTION OF FIRE/SMOKE DAMPER. CONNECT TO CIRCUIT HA-39. COORDINATE LOCATION AND CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.



ALABAMA DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

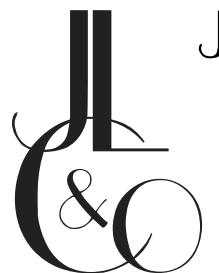
ISSUE HISTORY		
No.	Date	Description
1	04/15/22	Permit Submission

REVISION HISTORY		
No.	Date	Description




FUGLEBERG KOCH
2555 Temple Trail, Winter Park, FL 32789 (407) 629-0595
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CONSULTANT



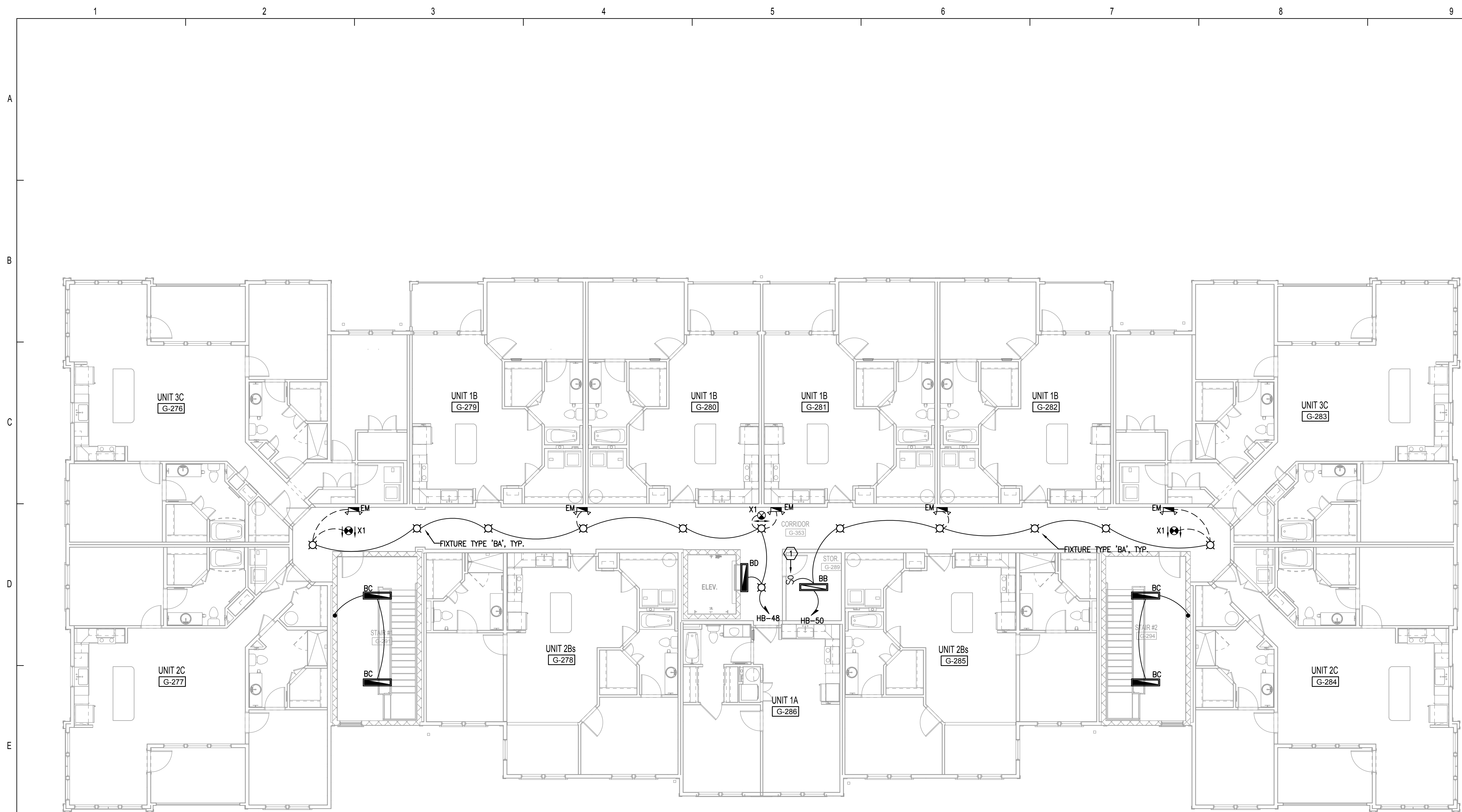
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JLC 22.0023.00

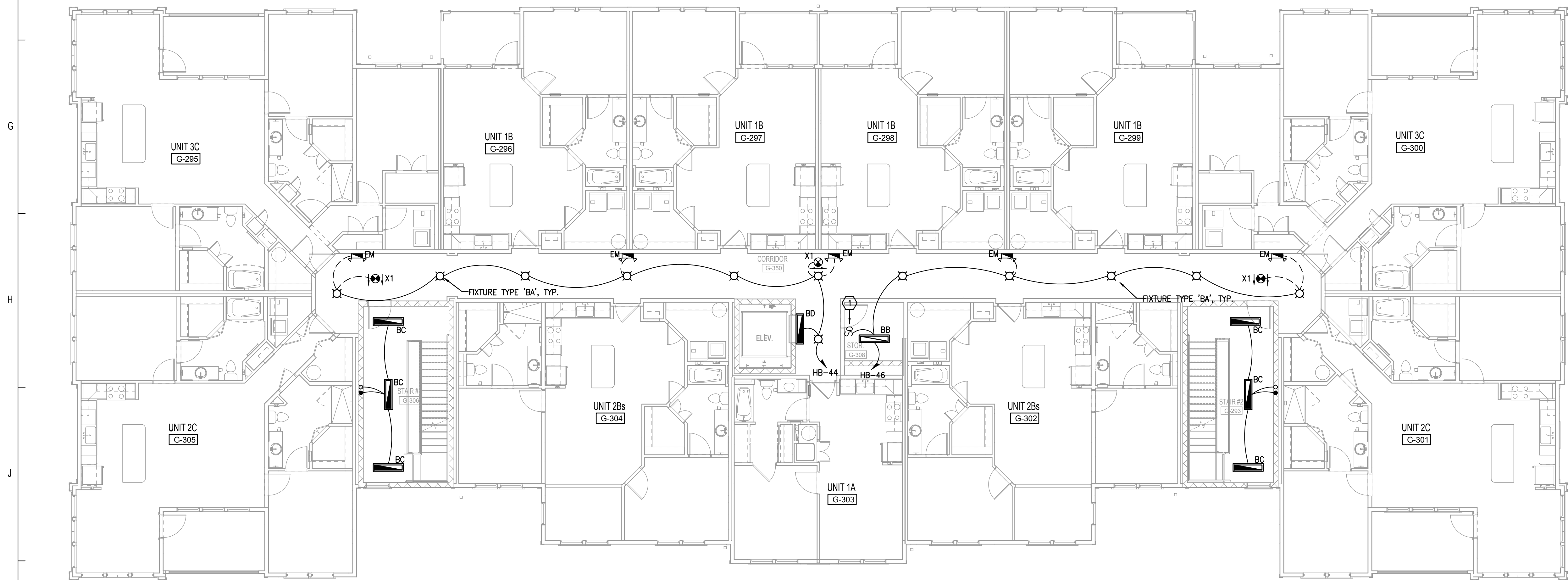


JOSEPH LAWRENCE
No. 3112
2020
ENGINEER
MICHAEL SUDDUTH

THE MADISON		Drawn: MRSMB	
HUNTSVILLE, AL		Checked: BLSA/B	
BUILDING TYPE B 3RD & 4TH LEVEL POWER & SYSTEMS		Approved: BLSA/B	
E2.05		Date: 04/15/2022	
		Project #: 5722	



F1 BUILDING TYPE B - 4TH LEVEL - LIGHTING
1/8" = 1'-0"



K1 BUILDING TYPE B - 3RD LEVEL - LIGHTING
1/8" = 1'-0"

GENERAL NOTES:

- DO NOT SCALE ELECTRICAL DRAWING FOR ANY DIMENSIONS.
- ALL WORK SHALL COMPLY WITH THE 2017 NATIONAL ELECTRICAL CODE, NATIONAL, STATE AND LOCAL CODES. PROVIDE GROUNDING AND BONDING PER NEC 250.
- SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC. ALL CONDUCTORS SHALL HAVE AN EQUIPMENT GROUND WIRE SIZED PER NEC.
- FIELD VERIFY EXACT LOCATION OF ALL DEVICES AND EQUIPMENT PRIOR TO ROUGH IN.
- REFER TO ENLARGED TYPICAL UNIT PLANS FOR ALL ELECTRICAL IN UNITS.
- 'NL' NEXT TO FIXTURE DESIGNATES FIXTURE TO BE CONNECTED AHEAD OF AUTOMATIC CONTROLS TO OPERATE CONTINUOUSLY.
- ALL EMERGENCY LIGHTING FIXTURES AND EXIT SIGNS SHALL BE CONNECTED "HOT" TO THE INDICATED LOCAL LIGHTING CIRCUIT.
- EMERGENCY ILLUMINATION SHALL BE PROVIDED FOR A PERIOD OF 90 MINUTES IN THE EVENT OF FAILURE OF NORMAL LIGHTING. EMERGENCY LIGHTING FACILITIES SHALL BE ARRANGED TO PROVIDE INITIAL ILLUMINATION THAT IS AT LEAST AN AVERAGE OF 1 FOOTCANDLE (10 LUX) AND A MINIMUM AT ANY POINT OF 0.1 FOOTCANDLE (1 LUX) MEASURED ALONG THE PATH OF EGRESS AT FLOOR LEVEL. ILLUMINATION LEVELS SHALL BE PERMITTED TO DECLINE TO 0.6 FOOTCANDLE (6 LUX) AVERAGE AND A MINIMUM AT ANY POINT OF 0.06 FOOTCANDLE (0.6 LUX) AT THE END OF THE EMERGENCY LIGHTING TIME DURATION. A MAXIMUM-TO-MINIMUM ILLUMINATION UNIFORMITY RATIO OF 40:1 SHALL NOT BE EXCEEDED.

REFERENCE NOTES:

- PROVIDE WALL MOUNTED, DUAL TECHNOLOGY, LOW VOLTAGE VACANCY SENSOR, WATTSTOPPER #DW-100-24 (OR APPROVED SUBSTITUTION) FOR AUTOMATIC CONTROL OF LIGHTING. CONNECT LIGHTING IN SPACE AS SHOWN ON PLANS VIA WATTSTOPPER LIGHTING POWER PACK #BZ-200 (OR APPROVED SUBSTITUTION). PROVIDE ALL ADDITIONAL POWER PACKS, RELAYS, SENSORS AS REQUIRED FOR COMPLETE COVERAGE OF SPACE AND SWITCHING AS SHOWN ON PLANS. INSTALLATION SHALL COMPLY WITH THE INTERNATIONAL BUILDING CODE SECTION 107.2.1.
- NOT USED.



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JLC 22.0023.00



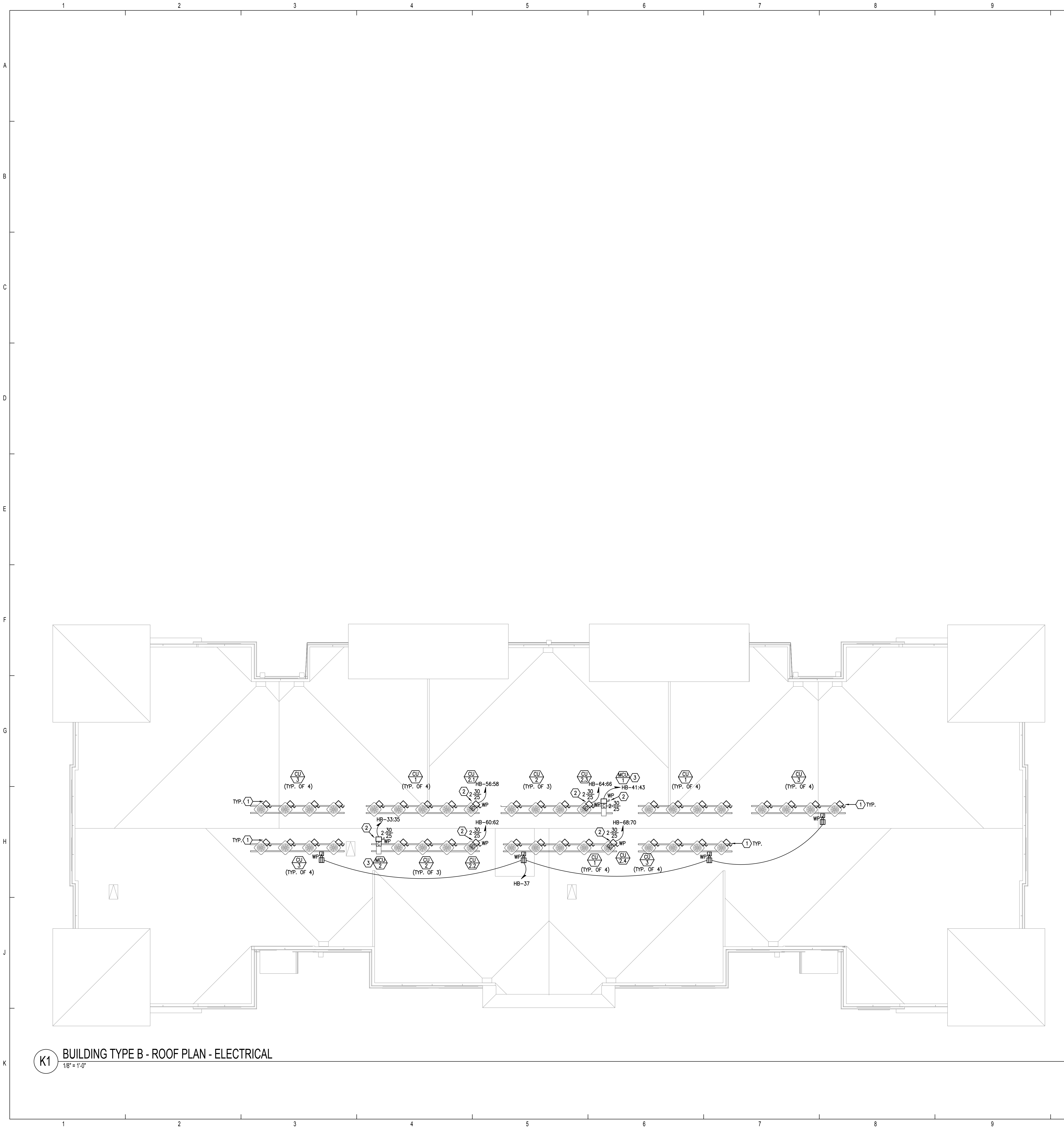
THE MADISON

HUNTSVILLE, AL

**BUILDING TYPE B
3RD & 4TH LEVEL
LIGHTING**

E2.05A


Drawn:	MJRSMB
Checked:	BLSAJB
Appoval:	BLSAJB
Date:	04/15/2022
Project #:	5722



K1 BUILDING TYPE B - ROOF PLAN - ELECTRICAL
1/8" = 1'-0"

- GENERAL NOTES:**
- A. DO NOT SCALE ELECTRICAL DRAWING FOR ANY DIMENSIONS.
 - B. ALL WORK SHALL COMPLY WITH THE 2017 NATIONAL ELECTRICAL CODE, NATIONAL, STATE AND LOCAL CODES. PROVIDE GROUNDING AND BONDING PER NEC 250.
 - C. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC. ALL CONDUCTORS SHALL HAVE AN EQUIPMENT GROUND WIRE SIZED PER NEC.
 - D. FIELD VERIFY EXACT LOCATION OF ALL DEVICES AND EQUIPMENT PRIOR TO ROUGH IN.

- REFERENCE NOTES:** (X)
- 1 ELECTRICAL CONTRACTOR SHALL COORDINATE DISCONNECT AND FUSE REQUIREMENTS FOR MECHANICAL UNIT WITH MECHANICAL CONTRACTOR AND EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN AND PROVIDE AS REQUIRED. CONNECT CONDENSING UNIT TO CORRESPONDING UNIT PANEL. REFER TO TYPICAL UNIT PLANS AND SCHEDULES FOR CIRCUITING AND SIZING INFORMATION. COORDINATE LOCATION OF DISCONNECT WITH OWNER AND MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. LOCATE DISCONNECT ON CONDENSING UNIT RACK AS REQUIRED TO MAINTAIN NEC CLEARANCES.
 - 2 ELECTRICAL CONTRACTOR SHALL COORDINATE DISCONNECT AND FUSE REQUIREMENTS FOR MECHANICAL UNIT WITH MECHANICAL CONTRACTOR AND EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN AND PROVIDE AS REQUIRED. COORDINATE LOCATION OF DISCONNECT WITH OWNER AND MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. LOCATE DISCONNECT ON CONDENSING UNIT RACK AS REQUIRED TO MAINTAIN NEC CLEARANCES.
 - 3 CONNECT INTERIOR MECHANICAL MINI-SPLIT UNIT MAU-X THROUGH EXTERIOR UNIT MCU-X. CONNECT PER MANUFACTURER'S RECOMMENDATIONS, AND PROVIDE ALL CONTROL WIRING, CONDUIT, ETC. AS REQUIRED.




U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT


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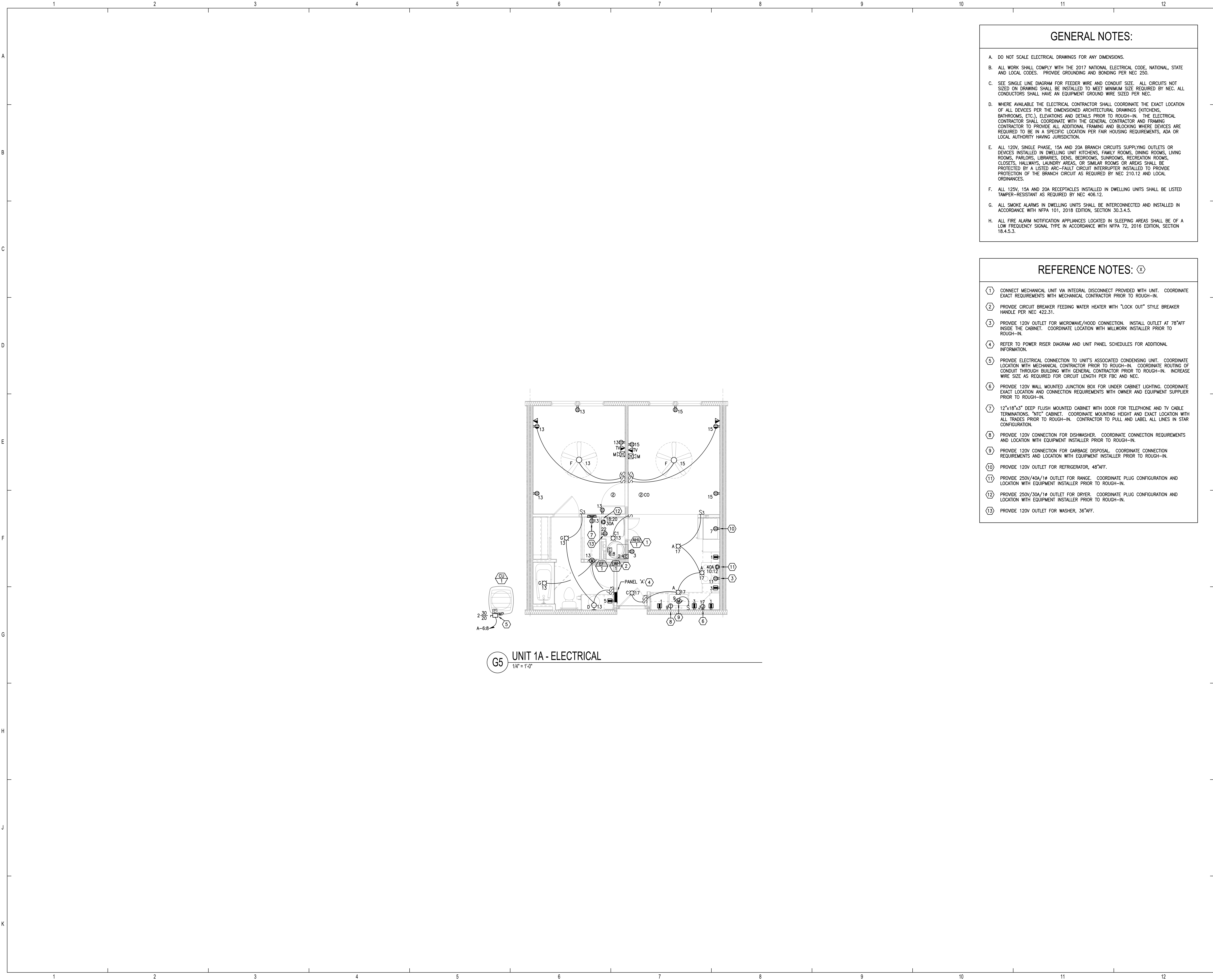

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CA NO. 4050 - E

JLC 22.0023.00


JOSEPH LAWRENCE
ENGINEER
STATE OF FLORIDA

THE MADISON	Drawn: MJS/MB
HUNTSVILLE, AL	Checked: BLS/AJB
BUILDING TYPE B	Approved: BLS/AJB
ROOF PLAN	Date: 04/15/2022
ELECTRICAL	Project #: 5722
E2.06	



GENERAL NOTES:

- A. DO NOT SCALE ELECTRICAL DRAWINGS FOR ANY DIMENSIONS.
- B. ALL WORK SHALL COMPLY WITH THE 2017 NATIONAL ELECTRICAL CODE, NATIONAL, STATE AND LOCAL CODES. PROVIDE GROUNDING AND BONDING PER NEC 250.
- C. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC. ALL CONDUCTORS SHALL HAVE AN EQUIPMENT GROUND WIRE SIZED PER NEC.
- D. WHERE AVAILABLE THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL DEVICES PER THE DIMENSIONED ARCHITECTURAL DRAWINGS (KITCHENS, BATHROOMS, ETC.), ELEVATIONS AND DETAILS PRIOR TO ROUGH-IN. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND FRAMING CONTRACTOR TO PROVIDE ALL ADDITIONAL FRAMING AND BLOCKING WHERE DEVICES ARE REQUIRED TO BE IN A SPECIFIC LOCATION PER FAIR HOUSING REQUIREMENTS, ADA OR LOCAL AUTHORITY HAVING JURISDICTION.
- E. ALL 120V, SINGLE PHASE, 15A AND 20A BRANCH CIRCUITS SUPPLYING OUTLETS OR DEVICES INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT AS REQUIRED BY NEC 210.12 AND LOCAL ORDINANCES.
- F. ALL 125V, 15A AND 20A RECEPTACLES INSTALLED IN DWELLING UNITS SHALL BE LISTED TAMPER-RESISTANT AS REQUIRED BY NEC 406.12.
- G. ALL SMOKE ALARMS IN DWELLING UNITS SHALL BE INTERCONNECTED AND INSTALLED IN ACCORDANCE WITH NFPA 101, 2018 EDITION, SECTION 30.3.4.5.
- H. ALL FIRE ALARM NOTIFICATION APPLIANCES LOCATED IN SLEEPING AREAS SHALL BE OF A LOW FREQUENCY SIGNAL TYPE IN ACCORDANCE WITH NFPA 72, 2016 EDITION, SECTION 18.4.5.3.

REFERENCE NOTES: (X)

- (1) CONNECT MECHANICAL UNIT VIA INTEGRAL DISCONNECT PROVIDED WITH UNIT. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- (2) PROVIDE CIRCUIT BREAKER FEEDING WATER HEATER WITH "LOCK OUT" STYLE BREAKER HANDLE PER NEC 422.31.
- (3) PROVIDE 120V OUTLET FOR MICROWAVE/HOOD CONNECTION. INSTALL OUTLET AT 78" AFF INSIDE THE CABINET. COORDINATE LOCATION WITH MILLWORK INSTALLER PRIOR TO ROUGH-IN.
- (4) REFER TO POWER RISER DIAGRAM AND UNIT PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
- (5) PROVIDE ELECTRICAL CONNECTION TO UNIT'S ASSOCIATED CONDENSING UNIT. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. COORDINATE ROUTING OF CONDUIT THROUGH BUILDING WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN. INCREASE WIRE SIZE AS REQUIRED FOR CIRCUIT LENGTH PER FBC AND NEC.
- (6) PROVIDE 120V WALL MOUNTED JUNCTION BOX FOR UNDER CABINET LIGHTING. COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH OWNER AND EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
- (7) 12"x18"x3" DEEP FLUSH MOUNTED CABINET WITH DOOR FOR TELEPHONE AND TV CABLE TERMINATIONS. "NTC" CABINET. COORDINATE MOUNTING HEIGHT AND EXACT LOCATION WITH ALL TRADES PRIOR TO ROUGH-IN. CONTRACTOR TO PULL AND LABEL ALL LINES IN STAR CONFIGURATION.
- (8) PROVIDE 120V CONNECTION FOR DISHWASHER. COORDINATE CONNECTION REQUIREMENTS AND LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
- (9) PROVIDE 120V CONNECTION FOR GARBAGE DISPOSAL. COORDINATE CONNECTION REQUIREMENTS AND LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
- (10) PROVIDE 120V OUTLET FOR REFRIGERATOR, 48" AFF.
- (11) PROVIDE 250V/40A/1" OUTLET FOR RANGE. COORDINATE PLUG CONFIGURATION AND LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
- (12) PROVIDE 250V/30A/1" OUTLET FOR DRYER. COORDINATE PLUG CONFIGURATION AND LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
- (13) PROVIDE 120V OUTLET FOR WASHER, 36" AFF.



ISSUE HISTORY

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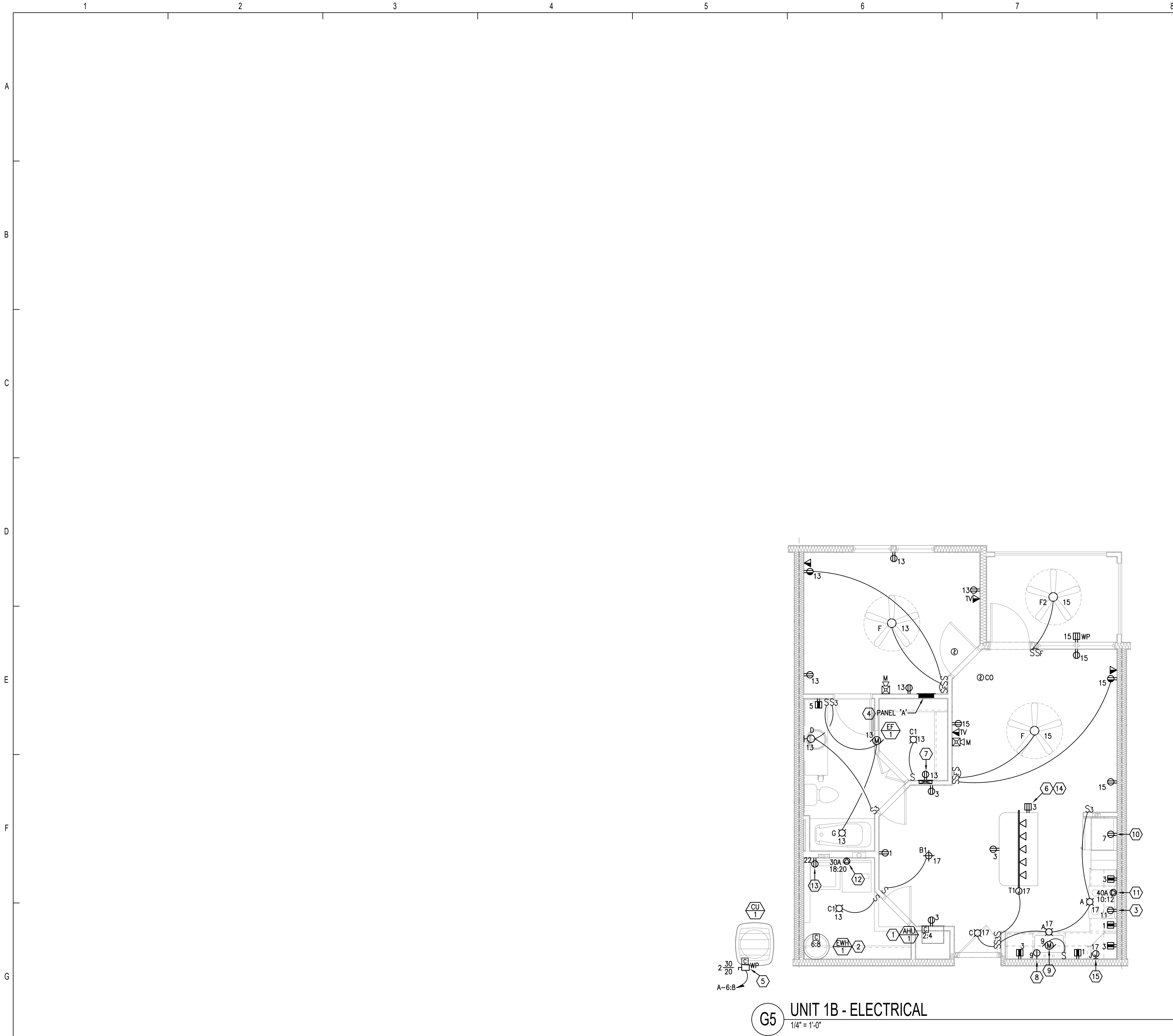
JLC 22.0023.00



THE MADISON	Drawn: M.JRSMB
HUNTSVILLE, AL	Checked: BLSAJS
	Approved: BLSAJS
	Date: 04/15/2022
	Project #: 5722

ENLARGED UNIT PLANS
ELECTRICAL

E3.01



GENERAL NOTES:

- A. DO NOT SCALE ELECTRICAL DRAWINGS FOR ANY DIMENSIONS.
- B. ALL WORK SHALL COMPLY WITH THE 2017 NATIONAL ELECTRICAL CODE, NATIONAL, STATE AND LOCAL CODES. PROVIDE GROUNDING AND BONDING PER NEC 250.
- C. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC. ALL CONDUCTORS SHALL HAVE AN EQUIPMENT GROUND WIRE SIZED PER NEC.
- D. WHERE AVAILABLE THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL DEVICES PER THE DIMENSIONED ARCHITECTURAL DRAWINGS (KITCHENS, BATHROOMS, ETC.), ELEVATIONS AND DETAILS PRIOR TO ROUGH-IN. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND FRAMING CONTRACTOR TO PROVIDE ALL ADDITIONAL FRAMING AND BLOCKING WHERE DEVICES ARE REQUIRED TO BE IN A SPECIFIC LOCATION PER FAIR HOUSING REQUIREMENTS, ADA OR LOCAL AUTHORITY HAVING JURISDICTION.
- E. ALL 120V, SINGLE PHASE, 15A AND 20A BRANCH CIRCUITS SUPPLYING OUTLETS OR DEVICES INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT AS REQUIRED BY NEC 210.12 AND LOCAL ORDINANCES.
- F. ALL 125V, 15A AND 20A RECEPTACLES INSTALLED IN DWELLING UNITS SHALL BE LISTED TAMPER-RESISTANT AS REQUIRED BY NEC 406.12.
- G. ALL SMOKE ALARMS IN DWELLING UNITS SHALL BE INTERCONNECTED AND INSTALLED IN ACCORDANCE WITH NFPA 101, 2018 EDITION, SECTION 30.3.4.5.
- H. ALL FIRE ALARM NOTIFICATION APPLIANCES LOCATED IN SLEEPING AREAS SHALL BE OF A LOW FREQUENCY SIGNAL TYPE IN ACCORDANCE WITH NFPA 72, 2016 EDITION, SECTION 18.4.5.3.

REFERENCE NOTES: (X)

- (1) CONNECT MECHANICAL UNIT VIA INTEGRAL DISCONNECT PROVIDED WITH UNIT. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- (2) PROVIDE CIRCUIT BREAKER FEEDING WATER HEATER WITH "LOCK OUT" STYLE BREAKER HANDLE PER NEC 422.31.
- (3) PROVIDE 120V OUTLET FOR MICROWAVE/HOOD CONNECTION. INSTALL OUTLET AT 78" AFF INSIDE THE CABINET. COORDINATE LOCATION WITH MILLWORK INSTALLER PRIOR TO ROUGH-IN.
- (4) REFER TO POWER RISER DIAGRAM AND UNIT PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
- (5) PROVIDE ELECTRICAL CONNECTION TO UNIT'S ASSOCIATED CONDENSING UNIT. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. COORDINATE ROUTING OF CONDUIT THROUGH BUILDING WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN. INCREASE WIRE SIZE AS REQUIRED FOR CIRCUIT LENGTH PER FBC AND NEC.
- (6) PROVIDE COMBINATION 120V TAMPER RESISTANT RECEPTACLE AND USB CHARGER OUTLET (LEVITON #15632-W OR APPROVED SUBSTITUTION). COLOR AS SELECTED BY OWNER. PROVIDE JUNCTION BOX SIZED AS REQUIRED BY NEC AND MANUFACTURER FOR DEVICE. COORDINATE OUTLET LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- (7) 12"x18"x3" DEEP FLUSH MOUNTED CABINET WITH DOOR FOR TELEPHONE AND TV CABLE TERMINATIONS. "NTC" CABINET. COORDINATE MOUNTING HEIGHT AND EXACT LOCATION WITH ALL TRADES PRIOR TO ROUGH-IN. CONTRACTOR TO PULL AND LABEL ALL LINES IN STAR CONFIGURATION.
- (8) PROVIDE 120V CONNECTION FOR DISHWASHER. COORDINATE CONNECTION REQUIREMENTS AND LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
- (9) PROVIDE 120V CONNECTION FOR GARBAGE DISPOSAL. COORDINATE CONNECTION REQUIREMENTS AND LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
- (10) PROVIDE 120V OUTLET FOR REFRIGERATOR, 48" AFF.
- (11) PROVIDE 250V/40A/1Ø OUTLET FOR RANGE. COORDINATE PLUG CONFIGURATION AND LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
- (12) PROVIDE 250V/30A/1Ø OUTLET FOR DRYER. COORDINATE PLUG CONFIGURATION AND LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
- (13) PROVIDE 120V OUTLET FOR WASHER, 36" AFF.
- (14) IN ISLAND LOCATIONS, LOCATE 120V RECEPTACLE IN LOW WALL BELOW COUNTER WITHIN 12" OF COUNTERTOP AS REQUIRED BY NEC 210.52(5). COORDINATE LOCATION WITH AHJ PRIOR TO ROUGH-IN.
- (15) PROVIDE 120V WALL MOUNTED JUNCTION BOX FOR UNDER CABINET LIGHTING. COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH OWNER AND EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.



ISSUE HISTORY

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1	04/15/22	Permit Submission

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No.	Date	Description



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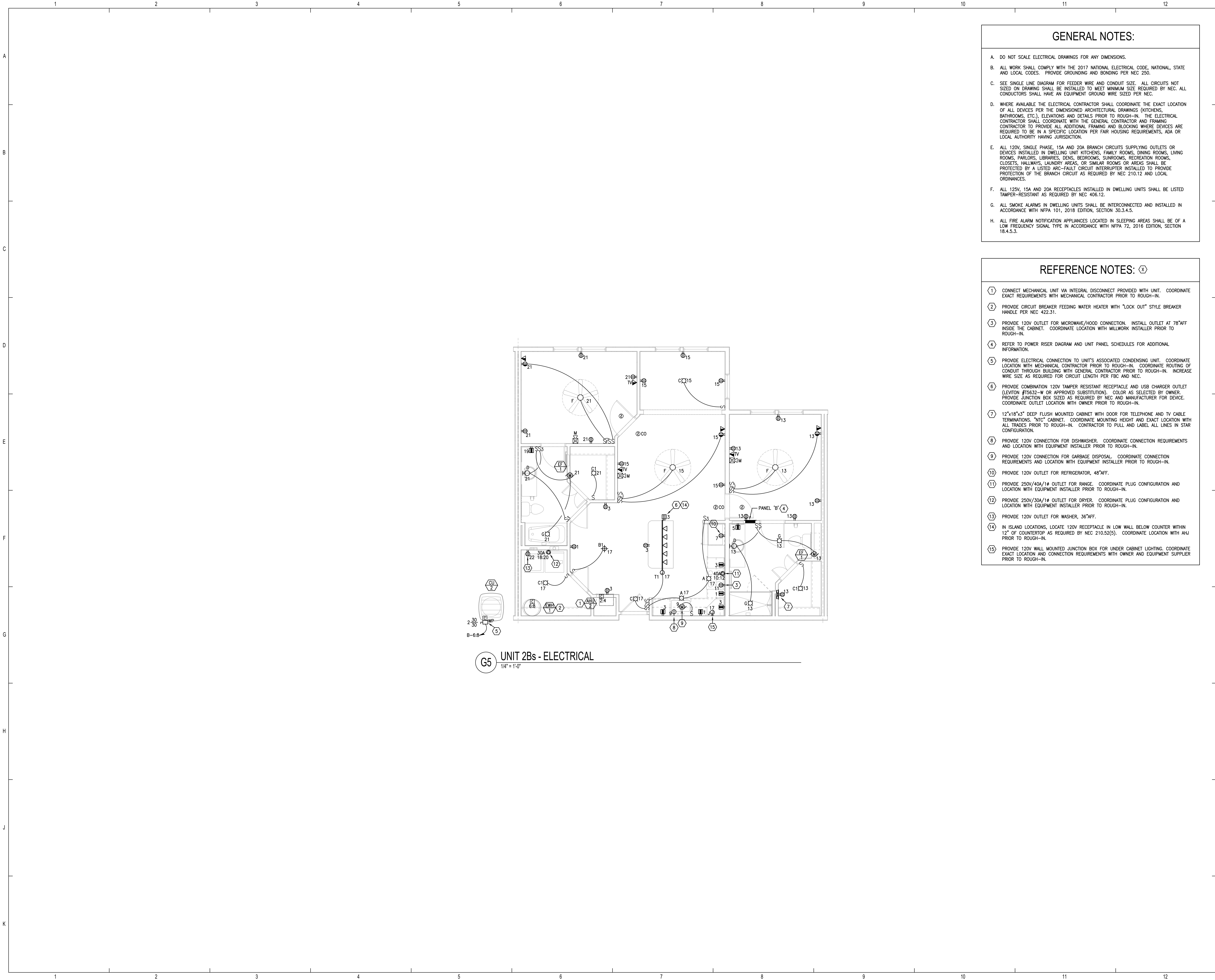
THE MADISON

HUNTSVILLE, AL

ENLARGED UNIT PLANS
ELECTRICAL

E3.02

Drawn:	MJRSMB
Checked:	BLSAJB
Approved:	BLSAJB
Date:	04/15/2022
Project #:	5722



GENERAL NOTES:

- A. DO NOT SCALE ELECTRICAL DRAWINGS FOR ANY DIMENSIONS.
- B. ALL WORK SHALL COMPLY WITH THE 2017 NATIONAL ELECTRICAL CODE, NATIONAL, STATE AND LOCAL CODES. PROVIDE GROUNDING AND BONDING PER NEC 250.
- C. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC. ALL CONDUCTORS SHALL HAVE AN EQUIPMENT GROUND WIRE SIZED PER NEC.
- D. WHERE AVAILABLE THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL DEVICES PER THE DIMENSIONED ARCHITECTURAL DRAWINGS (KITCHENS, BATHROOMS, ETC.), ELEVATIONS AND DETAILS PRIOR TO ROUGH-IN. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND FRAMING CONTRACTOR TO PROVIDE ALL ADDITIONAL FRAMING AND BLOCKING WHERE DEVICES ARE REQUIRED TO BE IN A SPECIFIC LOCATION PER FAIR HOUSING REQUIREMENTS, ADA OR LOCAL AUTHORITY HAVING JURISDICTION.
- E. ALL 120V, SINGLE PHASE, 15A AND 20A BRANCH CIRCUITS SUPPLYING OUTLETS OR DEVICES INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT AS REQUIRED BY NEC 210.12 AND LOCAL ORDINANCES.
- F. ALL 125V, 15A AND 20A RECEPTACLES INSTALLED IN DWELLING UNITS SHALL BE LISTED TAMPER-RESISTANT AS REQUIRED BY NEC 406.12.
- G. ALL SMOKE ALARMS IN DWELLING UNITS SHALL BE INTERCONNECTED AND INSTALLED IN ACCORDANCE WITH NFPA 101, 2018 EDITION, SECTION 30.3.4.5.
- H. ALL FIRE ALARM NOTIFICATION APPLIANCES LOCATED IN SLEEPING AREAS SHALL BE OF A LOW FREQUENCY SIGNAL TYPE IN ACCORDANCE WITH NFPA 72, 2016 EDITION, SECTION 18.4.5.3.

REFERENCE NOTES: (X)

- (1) CONNECT MECHANICAL UNIT VIA INTEGRAL DISCONNECT PROVIDED WITH UNIT. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- (2) PROVIDE CIRCUIT BREAKER FEEDING WATER HEATER WITH "LOCK OUT" STYLE BREAKER HANDLE PER NEC 422.31.
- (3) PROVIDE 120V OUTLET FOR MICROWAVE/HOOD CONNECTION. INSTALL OUTLET AT 78" AFF INSIDE THE CABINET. COORDINATE LOCATION WITH MILLWORK INSTALLER PRIOR TO ROUGH-IN.
- (4) REFER TO POWER RISER DIAGRAM AND UNIT PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
- (5) PROVIDE ELECTRICAL CONNECTION TO UNIT'S ASSOCIATED CONDENSING UNIT. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. COORDINATE ROUTING OF CONDUIT THROUGH BUILDING WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN. INCREASE WIRE SIZE AS REQUIRED FOR CIRCUIT LENGTH PER FBC AND NEC.
- (6) PROVIDE COMBINATION 120V TAMPER RESISTANT RECEPTACLE AND USB CHARGER OUTLET (LEVITON #15632-W OR APPROVED SUBSTITUTION). COLOR AS SELECTED BY OWNER. PROVIDE JUNCTION BOX SIZED AS REQUIRED BY NEC AND MANUFACTURER FOR DEVICE. COORDINATE OUTLET LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- (7) 12"x18"x3" DEEP FLUSH MOUNTED CABINET WITH DOOR FOR TELEPHONE AND TV CABLE TERMINATIONS. "NTC" CABINET. COORDINATE MOUNTING HEIGHT AND EXACT LOCATION WITH ALL TRADES PRIOR TO ROUGH-IN. CONTRACTOR TO PULL AND LABEL ALL LINES IN STAR CONFIGURATION.
- (8) PROVIDE 120V CONNECTION FOR DISHWASHER. COORDINATE CONNECTION REQUIREMENTS AND LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
- (9) PROVIDE 120V CONNECTION FOR GARBAGE DISPOSAL. COORDINATE CONNECTION REQUIREMENTS AND LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
- (10) PROVIDE 120V OUTLET FOR REFRIGERATOR, 48" AFF.
- (11) PROVIDE 250V/40A/1Ø OUTLET FOR RANGE. COORDINATE PLUG CONFIGURATION AND LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
- (12) PROVIDE 250V/30A/1Ø OUTLET FOR DRYER. COORDINATE PLUG CONFIGURATION AND LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
- (13) PROVIDE 120V OUTLET FOR WASHER, 36" AFF.
- (14) IN ISLAND LOCATIONS, LOCATE 120V RECEPTACLE IN LOW WALL BELOW COUNTER WITHIN 12" OF COUNTERTOP AS REQUIRED BY NEC 210.52(5). COORDINATE LOCATION WITH AHJ PRIOR TO ROUGH-IN.
- (15) PROVIDE 120V WALL MOUNTED JUNCTION BOX FOR UNDER CABINET LIGHTING. COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH OWNER AND EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.



ISSUE HISTORY

No.	Date	Description
1	04/15/22	Permit Submission

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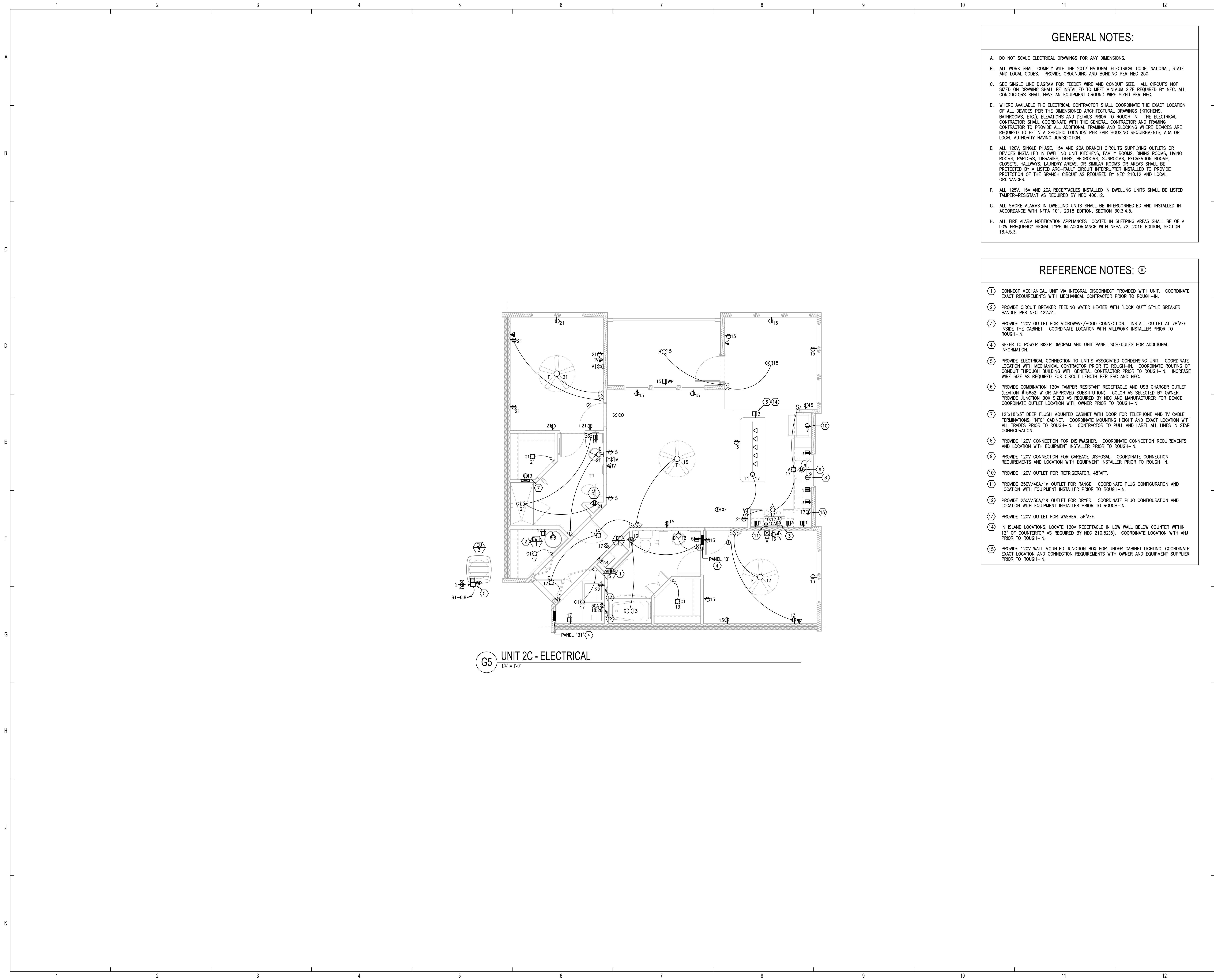
THE MADISON

HUNTSVILLE, AL

ENLARGED UNIT PLANS
ELECTRICAL

E3.05

Drawn:	MJS/MB
Checked:	BLS/AJB
Approved:	BLS/AJB
Date:	04/15/2022
Project #:	5722



GENERAL NOTES:

- A. DO NOT SCALE ELECTRICAL DRAWINGS FOR ANY DIMENSIONS.
- B. ALL WORK SHALL COMPLY WITH THE 2017 NATIONAL ELECTRICAL CODE, NATIONAL, STATE AND LOCAL CODES. PROVIDE GROUNDING AND BONDING PER NEC 250.
- C. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC. ALL CONDUCTORS SHALL HAVE AN EQUIPMENT GROUND WIRE SIZED PER NEC.
- D. WHERE AVAILABLE THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL DEVICES PER THE DIMENSIONED ARCHITECTURAL DRAWINGS (KITCHENS, BATHROOMS, ETC.). ELEVATIONS AND DETAILS PRIOR TO ROUGH-IN. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND FRAMING CONTRACTOR TO PROVIDE ALL ADDITIONAL FRAMING AND BLOCKING WHERE DEVICES ARE REQUIRED TO BE IN A SPECIFIC LOCATION PER FAIR HOUSING REQUIREMENTS, ADA OR LOCAL AUTHORITY HAVING JURISDICTION.
- E. ALL 120V, SINGLE PHASE, 15A AND 20A BRANCH CIRCUITS SUPPLYING OUTLETS OR DEVICES INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT AS REQUIRED BY NEC 210.12 AND LOCAL ORDINANCES.
- F. ALL 125V, 15A AND 20A RECEPTACLES INSTALLED IN DWELLING UNITS SHALL BE LISTED TAMPER-RESISTANT AS REQUIRED BY NEC 406.12.
- G. ALL SMOKE ALARMS IN DWELLING UNITS SHALL BE INTERCONNECTED AND INSTALLED IN ACCORDANCE WITH NFPA 101, 2018 EDITION, SECTION 30.3.4.5.
- H. ALL FIRE ALARM NOTIFICATION APPLIANCES LOCATED IN SLEEPING AREAS SHALL BE OF A LOW FREQUENCY SIGNAL TYPE IN ACCORDANCE WITH NFPA 72, 2016 EDITION, SECTION 18.4.5.3.

REFERENCE NOTES: (X)

- 1. CONNECT MECHANICAL UNIT VIA INTEGRAL DISCONNECT PROVIDED WITH UNIT. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- 2. PROVIDE CIRCUIT BREAKER FEEDING WATER HEATER WITH "LOCK OUT" STYLE BREAKER HANDLE PER NEC 422.31.
- 3. PROVIDE 120V OUTLET FOR MICROWAVE/HOOD CONNECTION. INSTALL OUTLET AT 78" AFF INSIDE THE CABINET. COORDINATE LOCATION WITH MILLWORK INSTALLER PRIOR TO ROUGH-IN.
- 4. REFER TO POWER RISER DIAGRAM AND UNIT PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
- 5. PROVIDE ELECTRICAL CONNECTION TO UNIT'S ASSOCIATED CONDENSING UNIT. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. COORDINATE ROUTING OF CONDUIT THROUGH BUILDING WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN. INCREASE WIRE SIZE AS REQUIRED FOR CIRCUIT LENGTH PER FBC AND NEC.
- 6. PROVIDE COMBINATION 120V TAMPER RESISTANT RECEPTACLE AND USB CHARGER OUTLET (LEVITON #15632-W OR APPROVED SUBSTITUTION). COLOR AS SELECTED BY OWNER. PROVIDE JUNCTION BOX SIZED AS REQUIRED BY NEC AND MANUFACTURER FOR DEVICE. COORDINATE OUTLET LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- 7. 12"x18"x3" DEEP FLUSH MOUNTED CABINET WITH DOOR FOR TELEPHONE AND TV CABLE TERMINATIONS. "NTC" CABINET. COORDINATE MOUNTING HEIGHT AND EXACT LOCATION WITH ALL TRADES PRIOR TO ROUGH-IN. CONTRACTOR TO PULL AND LABEL ALL LINES IN STAR CONFIGURATION.
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- 15. PROVIDE 120V WALL MOUNTED JUNCTION BOX FOR UNDER CABINET LIGHTING. COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH OWNER AND EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.

G5 UNIT 2C - ELECTRICAL
1/4" = 1'-0"



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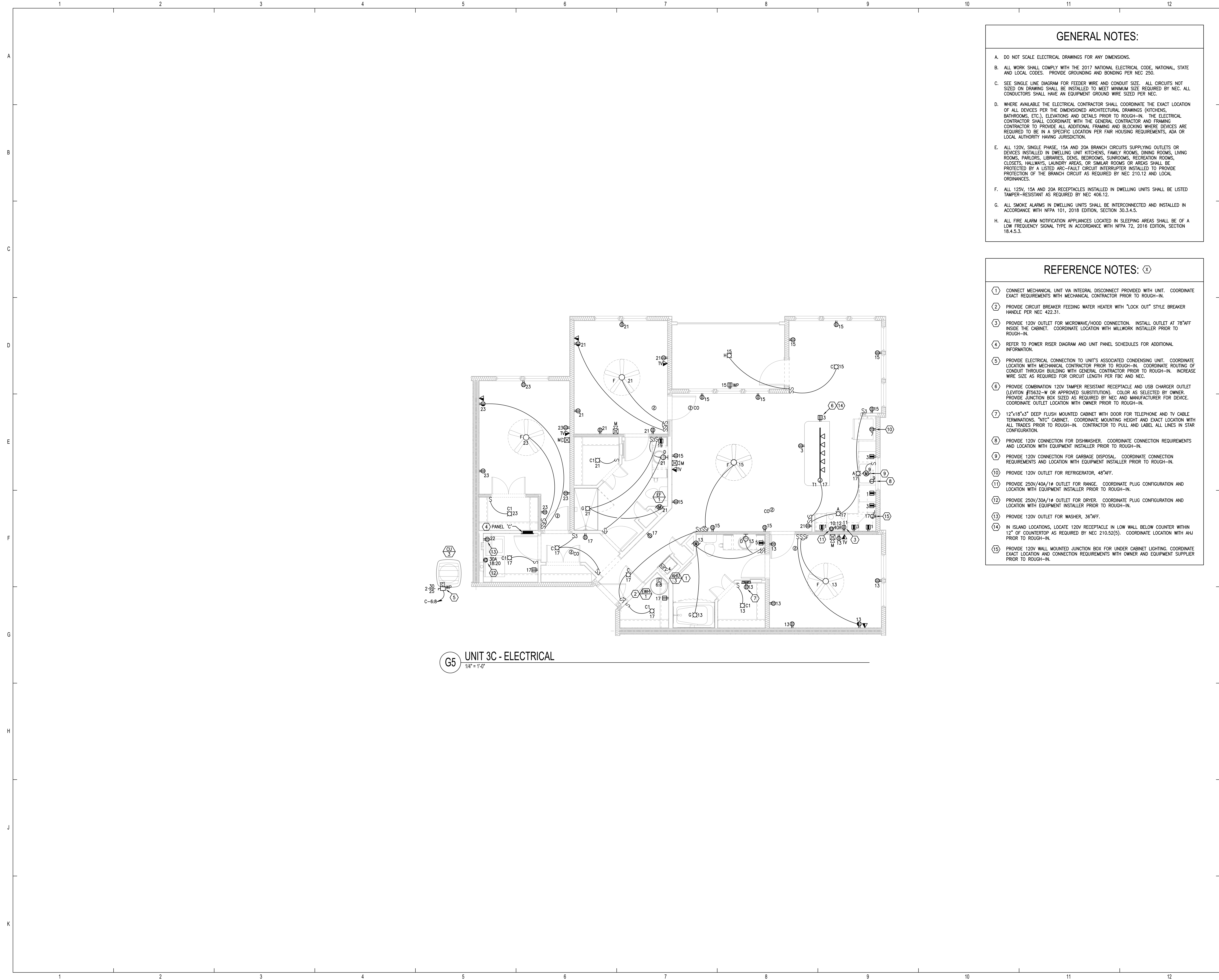
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THE MADISON	Drawn: MJSMB
HUNTSVILLE, AL	Checked: BLSA/B
	Approved: BLSA/B
	Date: 04/15/2022
	Project #: 5722

ENLARGED UNIT PLANS
ELECTRICAL

E3.06



- GENERAL NOTES:**
- A. DO NOT SCALE ELECTRICAL DRAWINGS FOR ANY DIMENSIONS.
 - B. ALL WORK SHALL COMPLY WITH THE 2017 NATIONAL ELECTRICAL CODE, NATIONAL, STATE AND LOCAL CODES. PROVIDE GROUNDING AND BONDING PER NEC 250.
 - C. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC. ALL CONDUCTORS SHALL HAVE AN EQUIPMENT GROUND WIRE SIZED PER NEC.
 - D. WHERE AVAILABLE THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL DEVICES PER THE DIMENSIONED ARCHITECTURAL DRAWINGS (KITCHENS, BATHROOMS, ETC.), ELEVATIONS AND DETAILS PRIOR TO ROUGH-IN. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND FRAMING CONTRACTOR TO PROVIDE ALL ADDITIONAL FRAMING AND BLOCKING WHERE DEVICES ARE REQUIRED TO BE IN A SPECIFIC LOCATION PER FAIR HOUSING REQUIREMENTS, ADA OR LOCAL AUTHORITY HAVING JURISDICTION.
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- REFERENCE NOTES:** (X)
- (1) CONNECT MECHANICAL UNIT VIA INTEGRAL DISCONNECT PROVIDED WITH UNIT. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
 - (2) PROVIDE CIRCUIT BREAKER FEEDING WATER HEATER WITH "LOCK OUT" STYLE BREAKER HANDLE PER NEC 422.31.
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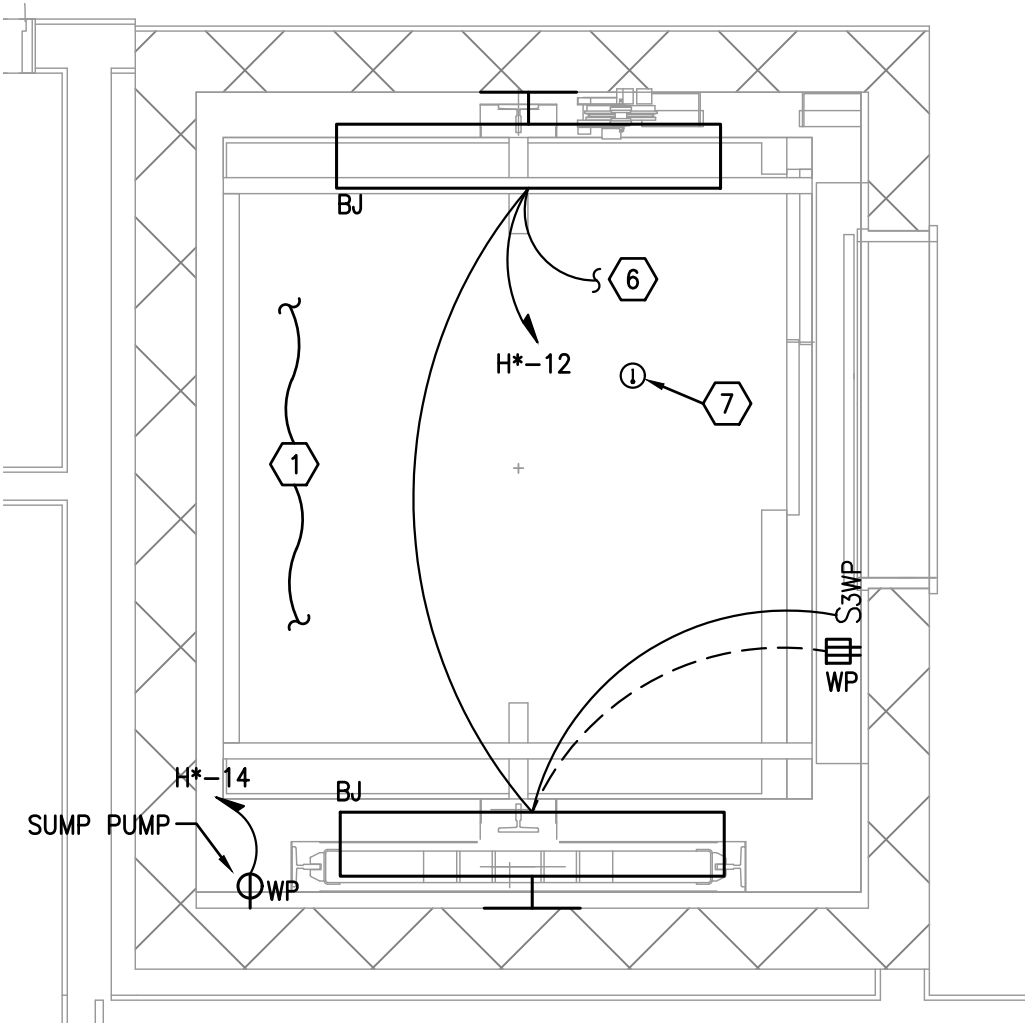
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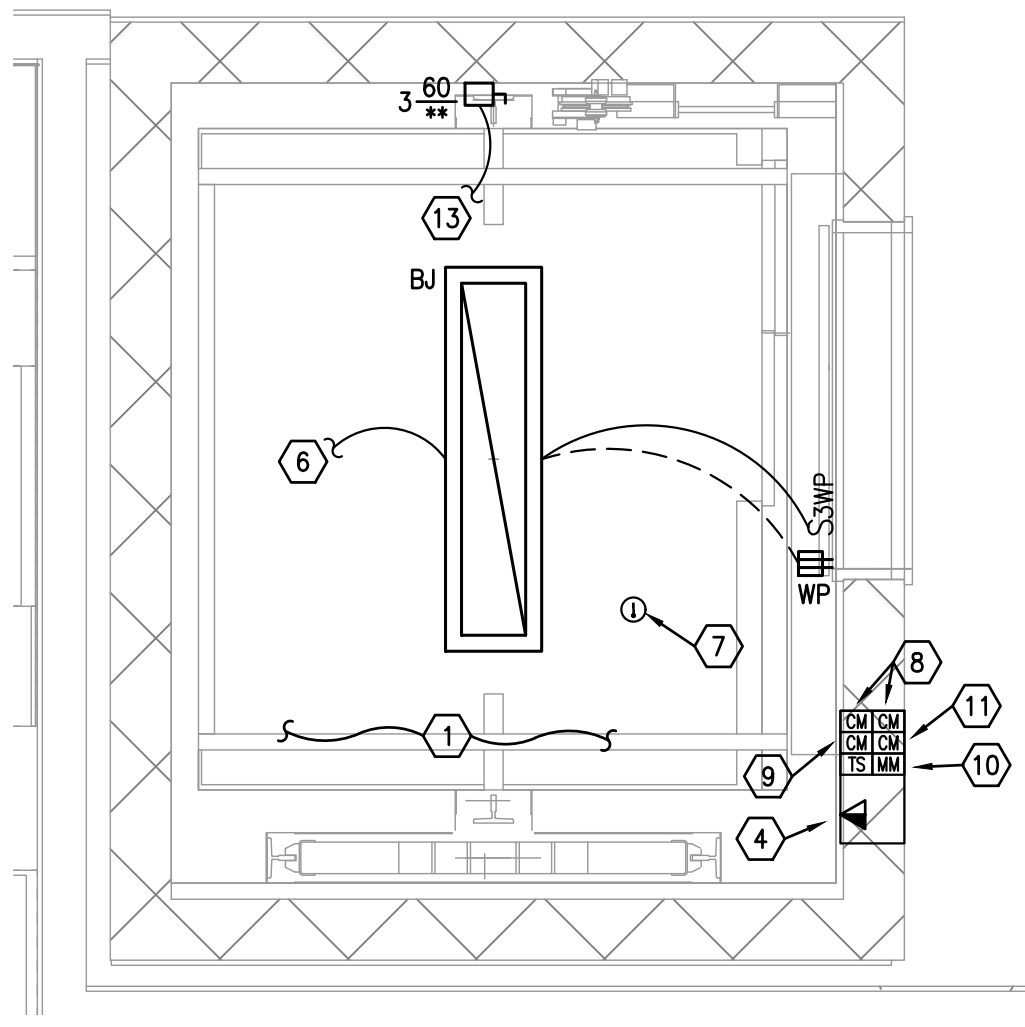
THE MADISON
HUNTSVILLE, AL

**ENLARGED UNIT PLANS
ELECTRICAL**

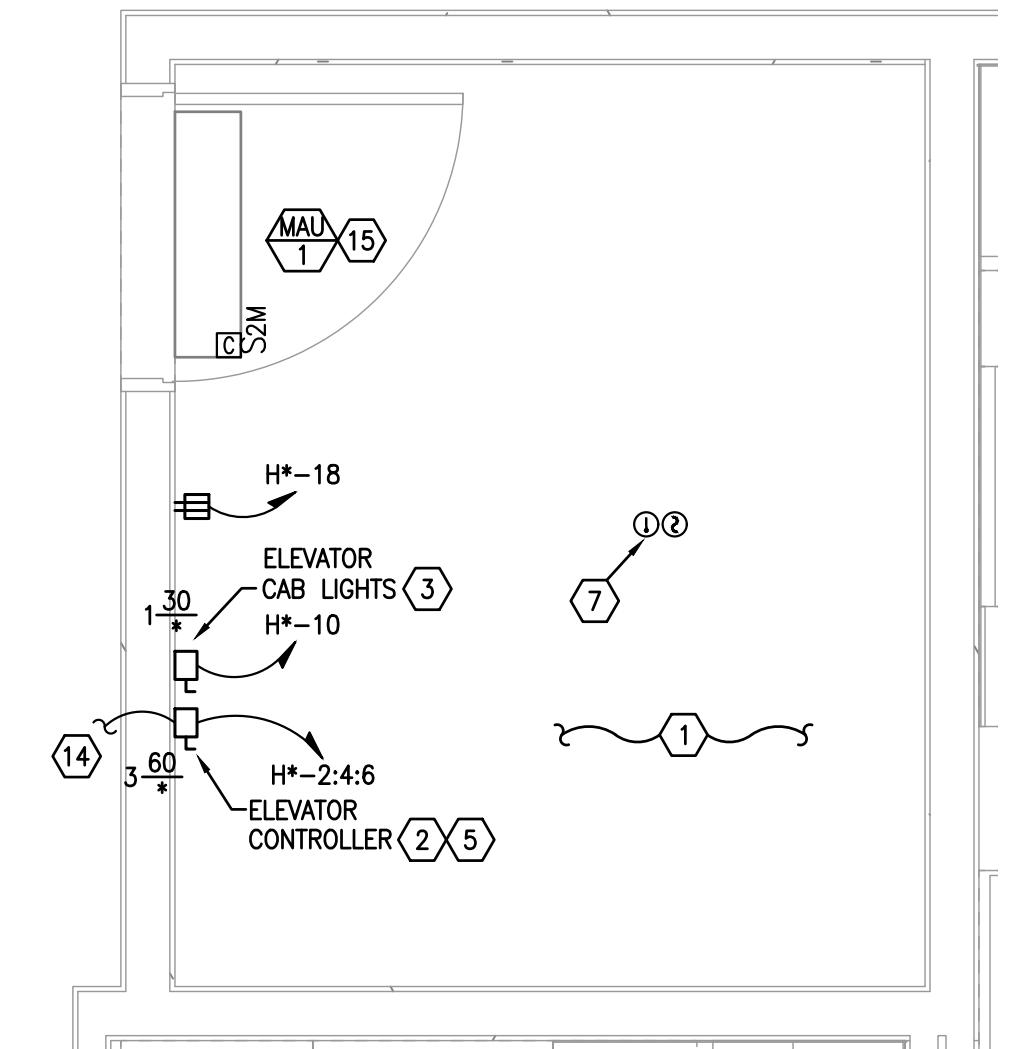
E3.07



C3 ENLARGED ELEVATOR PLAN - 1ST FLOOR - BLDG A & B
1/2" = 1'-0"



C7 ENLARGED ELEVATOR PLAN - 4TH FLOOR - BLDG A & B
1/2" = 1'-0"



F7 ENLARGED ELEVATOR PLAN - EQUIPMENT ROOM - BLDG A & B
1/2" = 1'-0"

GENERAL NOTES:

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- ALL WORK SHALL COMPLY WITH THE 2017 NATIONAL ELECTRICAL CODE, NATIONAL, STATE AND LOCAL CODES. PROVIDE GROUNDING AND BONDING PER NEC 250.
- SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC. ALL CONDUCTORS SHALL HAVE AN EQUIPMENT GROUND WIRE SIZED PER NEC.
- FIELD VERIFY EXACT LOCATION OF ALL DEVICES AND EQUIPMENT PRIOR TO ROUGH IN.

REFERENCE NOTES: (X)

- REFER TO ELEVATOR SHOP DRAWINGS FOR EXACT LOCATIONS OF ELECTRICAL WORK IN ELEVATOR PIT AND MACHINE ROOM. PROVIDE CONNECTION SWITCHES, LIGHTS AND RECEPTACLES AS PER NEC 620.23 AND 24. CONNECT FIRE ALARM AND TELEPHONE DEVICES IN ELEVATOR SHAFT LOBBY AND EQUIPMENT ROOM PER STATE FIRE MARSHALL REQUIREMENTS.
- PROVIDE LOCKABLE RK5 DISCONNECT SWITCH WITH 20A AUXILIARY CONTACTS, REJECTION CLIPS AND RK5 FUSES AS REQUIRED BY ELEVATOR INSTALLER. CONNECT ELEVATOR CONTROLLER. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
- 30A, 120V LOCKABLE DISCONNECT SWITCH WITH REJECTION CLIPS AND 20A RK5 FUSE. LABEL "ELEVATOR CAB LIGHTS". CONNECT ELEVATOR CONTROLLERS: (2)#12 AND (1)#12 GND. IN 1/2"C.
- ELEVATOR CAB TELEPHONE. COORDINATE WITH ELEVATOR CONTRACTOR PRIOR TO ROUGH-IN.
- COORDINATE DISCONNECT SIZE, BREAKER SIZE, AND CONDUIT/CONDUCTOR SIZING WITH APPROVED ELEVATOR SHOP DRAWINGS AND PROVIDE AS REQUIRED.
- CONNECT ELEVATOR SHAFT LIGHTING ON TOP FLOOR TO ELEVATOR PIT LIGHTING ON FIRST FLOOR. FIXTURES TO BE CONTROLLED BY 3-WAY SWITCH AS SHOWN ON PLANS.
- MOUNT MOISTURE PROOF HEAT DETECTOR WITHIN 18" OF FIRE PROTECTION SPRINKLER HEAD. FIELD COORDINATE PRIOR TO ROUGH-IN.
- ELEVATOR RECALL CONTROL MODULES. COORDINATE WITH ELEVATOR CONTRACTOR PRIOR TO ROUGH-IN.
- ELEVATOR POWER SHUTDOWN CONTROL MODULE.
- ELEVATOR POWER SHUTDOWN CONTROL CIRCUIT SUPERVISORY MONITOR MODULE.
- ELEVATOR PHASE 1 EMERGENCY RECALL VISUAL SIGNAL CONTROL MODULE. COORDINATE TERMINATION REQUIREMENTS WITH ELEVATOR CONTROLLER.
- PROVIDE TWO-WAY COMMUNICATION SYSTEM AND CABLE TO MAIN BASE STATION AS REQUIRED BY 2020 7TH EDITION FBC, 2018 FFPC, AND 2018 NFPA 101 LIFE SAFETY CODE. COORDINATE LOCATION WITH OWNER AND AUTHORITY HAVING JURISDICTION PRIOR TO ROUGH-IN.
- PROVIDE 60A/3P, NON-FUSED DISCONNECT SWITCH AT TOP OF ELEVATOR SHAFT FOR CONNECTION OF ELEVATOR MOTOR TO ELEVATOR CONTROLLER. COORDINATE LOCATION AND CONNECTION REQUIREMENTS WITH ELEVATOR MANUFACTURER SHOP DRAWINGS AND INSTALLER PRIOR TO ROUGH-IN. MAINTAIN ALL NEC REQUIRED CLEARANCES FOR DISCONNECT SWITCH.
- TO NON-FUSED 60A/3P DISCONNECT LOCATED AT TOP OF ELEVATOR SHAFT. PROVIDE (3)#6 AWG CU. AND (1)#10 AWG CU. GND. IN 1"C. AS REQUIRED.
- CONNECT INTERIOR MECHANICAL MINI-SPLIT UNIT MAU-1 THROUGH EXTERIOR UNIT MCU-1. CONNECT PER MANUFACTURER'S RECOMMENDATIONS, AND PROVIDE ALL CONTROL WIRING, CONDUIT, ETC. AS REQUIRED.



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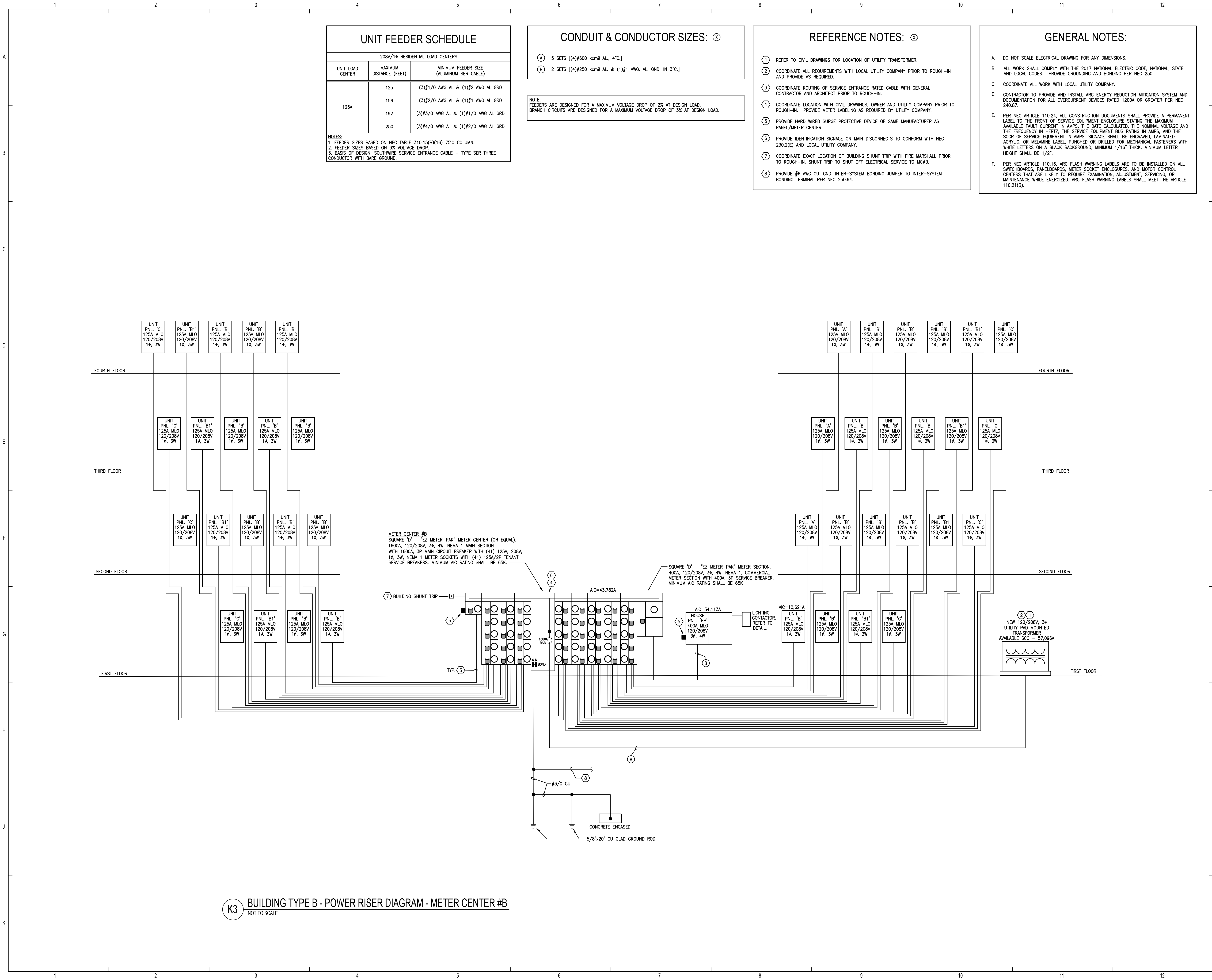
THE MADISON

HUNTSVILLE, AL

ENLARGED
ELEVATOR PLANS
ELECTRICAL

E3.09

Drawn:	MJRSMB
Checked:	BLSAJB
Appoval:	BLSAJB
Date:	04/15/2022
Project #:	5722



UNIT FEEDER SCHEDULE		
208V/1Ø RESIDENTIAL LOAD CENTERS		
UNIT LOAD CENTER	MAXIMUM DISTANCE (FEET)	MINIMUM FEEDER SIZE (ALUMINUM SER CABLE)
125A	125	(3) #1/0 AWG AL & (1) #2 AWG AL GRD
	156	(3) #2/0 AWG AL & (1) #1 AWG AL GRD
	192	(3) #3/0 AWG AL & (1) #1/0 AWG AL GRD
	250	(3) #4/0 AWG AL & (1) #2/0 AWG AL GRD
NOTES: 1. FEEDER SIZES BASED ON NEC TABLE 310.15(B)(16) 75°C COLUMN. 2. FEEDER SIZES BASED ON 3% VOLTAGE DROP. 3. BASIS OF DESIGN: SOUTHWIRE SERVICE ENTRANCE CABLE - TYPE SER THREE CONDUCTOR WITH BARE GROUND.		

CONDUIT & CONDUCTOR SIZES: ⓧ	
Ⓐ	5 SETS [(4) #600 kcmil AL, 4°C.]
Ⓑ	2 SETS [(4) #250 kcmil AL & (1) #1 AWG. AL. GND. IN 3°C.]
NOTE: FEEDERS ARE DESIGNED FOR A MAXIMUM VOLTAGE DROP OF 2% AT DESIGN LOAD. BRANCH CIRCUITS ARE DESIGNED FOR A MAXIMUM VOLTAGE DROP OF 3% AT DESIGN LOAD.	

REFERENCE NOTES: ⓧ	
①	REFER TO CIVIL DRAWINGS FOR LOCATION OF UTILITY TRANSFORMER.
②	COORDINATE ALL REQUIREMENTS WITH LOCAL UTILITY COMPANY PRIOR TO ROUGH-IN AND PROVIDE AS REQUIRED.
③	COORDINATE ROUTING OF SERVICE ENTRANCE RATED CABLE WITH GENERAL CONTRACTOR AND ARCHITECT PRIOR TO ROUGH-IN.
④	COORDINATE LOCATION WITH CIVIL DRAWINGS, OWNER AND UTILITY COMPANY PRIOR TO ROUGH-IN. PROVIDE METER LABELING AS REQUIRED BY UTILITY COMPANY.
⑤	PROVIDE HARD WIRED SURGE PROTECTIVE DEVICE OF SAME MANUFACTURER AS PANEL/METER CENTER.
⑥	PROVIDE IDENTIFICATION SIGNAGE ON MAIN DISCONNECTS TO CONFORM WITH NEC 230.2(E) AND LOCAL UTILITY COMPANY.
⑦	COORDINATE EXACT LOCATION OF BUILDING SHUNT TRIP WITH FIRE MARSHALL PRIOR TO ROUGH-IN. SHUNT TRIP TO SHUT OFF ELECTRICAL SERVICE TO MC#B.
⑧	PROVIDE #6 AWG CU. GND. INTER-SYSTEM BONDING JUMPER TO INTER-SYSTEM BONDING TERMINAL PER NEC 250.94.

GENERAL NOTES:	
A.	DO NOT SCALE ELECTRICAL DRAWING FOR ANY DIMENSIONS.
B.	ALL WORK SHALL COMPLY WITH THE 2017 NATIONAL ELECTRIC CODE, NATIONAL, STATE AND LOCAL CODES. PROVIDE GROUNDING AND BONDING PER NEC 250
C.	COORDINATE ALL WORK WITH LOCAL UTILITY COMPANY.
D.	CONTRACTOR TO PROVIDE AND INSTALL ARC ENERGY REDUCTION MITIGATION SYSTEM AND DOCUMENTATION FOR ALL OVERCURRENT DEVICES RATED 1200A OR GREATER PER NEC 240.87.
E.	PER NEC ARTICLE 110.24, ALL CONSTRUCTION DOCUMENTS SHALL PROVIDE A PERMANENT LABEL TO THE FRONT OF SERVICE EQUIPMENT ENCLOSURE STATING THE MAXIMUM AVAILABLE FAULT CURRENT IN AMPS, THE DATE CALCULATED, THE NOMINAL VOLTAGE AND THE FREQUENCY IN HERTZ, THE SERVICE EQUIPMENT BUS RATING IN AMPS, AND THE SCCR OF SERVICE EQUIPMENT IN AMPS. SIGNAGE SHALL BE ENGRAVED, LAMINATED ACRYLIC, OR MELAMINE LABEL, PUNCHED OR DRILLED FOR MECHANICAL FASTENERS WITH WHITE LETTERS ON A BLACK BACKGROUND, MINIMUM 1/16" THICK. MINIMUM LETTER HEIGHT SHALL BE 1/2".
F.	PER NEC ARTICLE 110.16, ARC FLASH WARNING LABELS ARE TO BE INSTALLED ON ALL SWITCHBOARDS, PANELBOARDS, METER SOCKET ENCLOSURES, AND MOTOR CONTROL CENTERS THAT ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED. ARC FLASH WARNING LABELS SHALL MEET THE ARTICLE 110.21(B).

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THE MADISON		Drawn: MRSMB
HUNTSVILLE, AL		Checked: BLSA/B
RISER DIAGRAM ELECTRICAL		Approved: BLSA/B
E4.02		Date: 04/15/2022
		Project #: 5722

RESIDENTIAL UNIT TYPE 1A, 1B, 1Bs ELECTRICAL SERVICE LOAD SUMMARY			
837	SQUARE FT. x 3 VA =	2,511 VA	(GENERAL LIGHTING/RECEPTACLE LOAD)
1,500	VA x 2 =	3,000 VA	(SMALL APPLIANCE LOAD)
1,500	VA x 1 =	1,500 VA	(WASHING MACHINE)
5,000	VA x 1 =	5,000 VA	(ELECTRIC DRYER)
4,500	VA x 1 =	4,500 VA	(ELECTRIC WATER HEATER)
1,200	VA x 1 =	1,200 VA	(DISHWASHER)
800	VA x 1 =	800 VA	(DISPOSAL)
840	VA x 1 =	840 VA	(REFRIGERATOR)
1,200	VA x 1 =	1,200 VA	(MICROVAVE/HOOD)
10,000	VA x 1 =	10,000 VA	(ELECTRIC RANGE/OVEN)
CONNECTED GENERAL LOAD = 30,551 VA			
CONNECT HEAT/AC LOAD = 4,648 VA (PER NEC 220.82)			
CAR CHARGER @ 125% = 0 VA (PER NEC 625.42)			
TOTAL CONNECTED LOAD = 35,199 VA			
TOTAL DEMAND LOAD = 22,868 VA (PER NEC 220.82)			
TOTAL DEMAND AMPS = 109.94 AMPS 125A @ 208V/1PH SERVICE			

RESIDENTIAL UNIT TYPE 2B, 2BS ELECTRICAL SERVICE LOAD SUMMARY			
1,122	SQUARE FT. x 3 VA =	3,366 VA	(GENERAL LIGHTING/RECEPTACLE LOAD)
1,500	VA x 2 =	3,000 VA	(SMALL APPLIANCE LOAD)
1,500	VA x 1 =	1,500 VA	(WASHING MACHINE)
5,000	VA x 1 =	5,000 VA	(ELECTRIC DRYER)
4,500	VA x 1 =	4,500 VA	(ELECTRIC WATER HEATER)
1,200	VA x 1 =	1,200 VA	(DISHWASHER)
800	VA x 1 =	800 VA	(DISPOSAL)
840	VA x 1 =	840 VA	(REFRIGERATOR)
1,200	VA x 1 =	1,200 VA	(MICROVAVE/HOOD)
10,000	VA x 1 =	10,000 VA	(ELECTRIC RANGE/OVEN)
CONNECTED GENERAL LOAD = 31,496 VA			
CONNECT HEAT/AC LOAD = 4,648 VA (PER NEC 220.82)			
CAR CHARGER @ 125% = 0 VA (PER NEC 625.42)			
TOTAL CONNECTED LOAD = 36,054 VA			
TOTAL DEMAND LOAD = 23,210 VA (PER NEC 220.82)			
TOTAL DEMAND AMPS = 111.59 AMPS 125A @ 208V/1PH SERVICE			

RESIDENTIAL UNIT TYPE 2C ELECTRICAL SERVICE LOAD SUMMARY			
1,286	SQUARE FT. x 3 VA =	3,858 VA	(GENERAL LIGHTING/RECEPTACLE LOAD)
1,500	VA x 2 =	3,000 VA	(SMALL APPLIANCE LOAD)
1,500	VA x 1 =	1,500 VA	(WASHING MACHINE)
5,000	VA x 1 =	5,000 VA	(ELECTRIC DRYER)
4,500	VA x 1 =	4,500 VA	(ELECTRIC WATER HEATER)
1,200	VA x 1 =	1,200 VA	(DISHWASHER)
800	VA x 1 =	800 VA	(DISPOSAL)
840	VA x 1 =	840 VA	(REFRIGERATOR)
1,200	VA x 1 =	1,200 VA	(MICROVAVE/HOOD)
10,000	VA x 1 =	10,000 VA	(ELECTRIC RANGE/OVEN)
CONNECTED GENERAL LOAD = 31,896 VA			
CONNECT HEAT/AC LOAD = 5,894 VA (PER NEC 220.82)			
CAR CHARGER @ 125% = 0 VA (PER NEC 625.42)			
TOTAL CONNECTED LOAD = 37,792 VA			
TOTAL DEMAND LOAD = 24,653 VA (PER NEC 220.82)			
TOTAL DEMAND AMPS = 118.53 AMPS 125A @ 208V/1PH SERVICE			

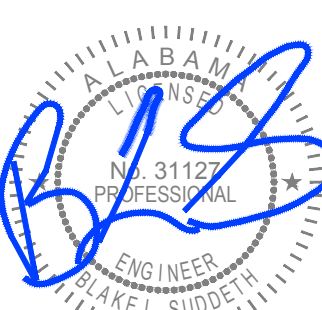
RESIDENTIAL UNIT TYPE 3C ELECTRICAL SERVICE LOAD SUMMARY			
1,588	SQUARE FT. x 3 VA =	4,704 VA	(GENERAL LIGHTING/RECEPTACLE LOAD)
1,500	VA x 2 =	3,000 VA	(SMALL APPLIANCE LOAD)
1,500	VA x 1 =	1,500 VA	(WASHING MACHINE)
5,000	VA x 1 =	5,000 VA	(ELECTRIC DRYER)
4,500	VA x 1 =	4,500 VA	(ELECTRIC WATER HEATER)
1,200	VA x 1 =	1,200 VA	(DISHWASHER)
800	VA x 1 =	800 VA	(DISPOSAL)
840	VA x 1 =	840 VA	(REFRIGERATOR)
1,200	VA x 1 =	1,200 VA	(MICROVAVE/HOOD)
10,000	VA x 1 =	10,000 VA	(ELECTRIC RANGE/OVEN)
CONNECTED GENERAL LOAD = 32,744 VA			
CONNECT HEAT/AC LOAD = 5,894 VA (PER NEC 220.82)			
CAR CHARGER @ 125% = 0 VA (PER NEC 625.42)			
TOTAL CONNECTED LOAD = 38,638 VA			
TOTAL DEMAND LOAD = 24,992 VA (PER NEC 220.82)			
TOTAL DEMAND AMPS = 120.15 AMPS 125A @ 208V/1PH SERVICE			

RESIDENTIAL UNIT TYPE TH ELECTRICAL SERVICE LOAD SUMMARY			
1,497	SQUARE FT. x 3 VA =	4,491 VA	(GENERAL LIGHTING/RECEPTACLE LOAD)
1,500	VA x 2 =	3,000 VA	(SMALL APPLIANCE LOAD)
1,500	VA x 1 =	1,500 VA	(WASHING MACHINE)
5,000	VA x 1 =	5,000 VA	(ELECTRIC DRYER)
4,500	VA x 1 =	4,500 VA	(ELECTRIC WATER HEATER)
1,200	VA x 1 =	1,200 VA	(DISHWASHER)
800	VA x 1 =	800 VA	(DISPOSAL)
840	VA x 1 =	840 VA	(REFRIGERATOR)
1,200	VA x 1 =	1,200 VA	(MICROVAVE/HOOD)
10,000	VA x 1 =	10,000 VA	(ELECTRIC RANGE/OVEN)
CONNECTED GENERAL LOAD = 32,531 VA			
CONNECT HEAT/AC LOAD = 5,894 VA (PER NEC 220.82)			
CAR CHARGER @ 125% = 0 VA (PER NEC 625.42)			
TOTAL CONNECTED LOAD = 38,425 VA			
TOTAL DEMAND LOAD = 24,906 VA (PER NEC 220.82)			
TOTAL DEMAND AMPS = 119.74 AMPS 125A @ 208V/1PH SERVICE			

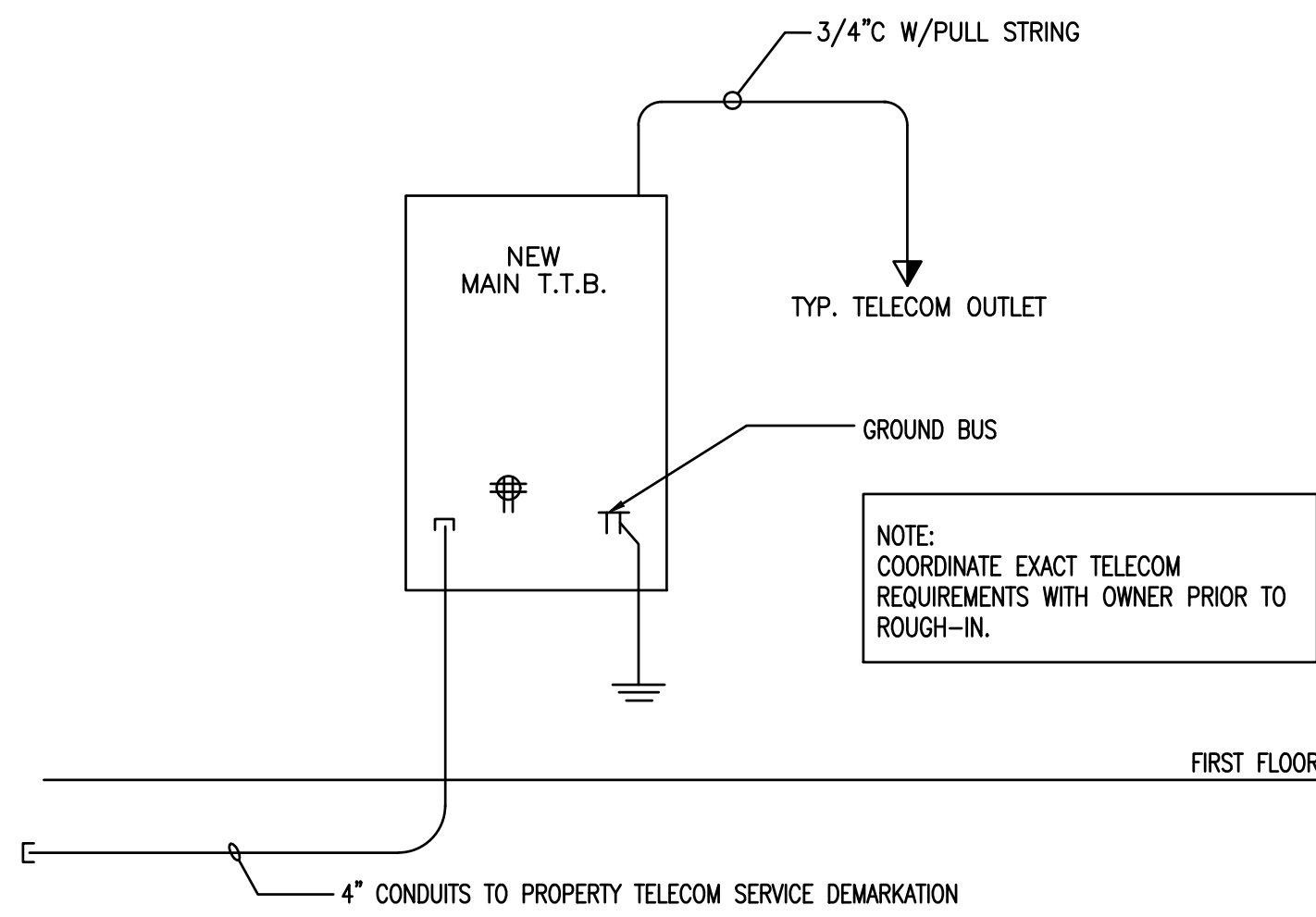
TYPICAL UNIT PANEL 'A'																			
LOCATION: UNIT TYPE '1A', '1B' & '1BS'				VOLTAGE: 120/208V 1Ø 3W				MIN. AIC RATING: 22K AIC				NOTES: PROVIDE TYPED WRITTEN DIRECTORY PROVIDE GROUND & NEUTRAL BUS PROVIDE 'NM' WHERE ALLOWED BY AHJ							
TYPE: SQUARE 'D' - TYPE QO				MAINS: 125A <input checked="" type="checkbox"/> MLO <input type="checkbox"/> MCB				MOUNTING: FLUSH				PROVIDE TYPED WRITTEN DIRECTORY PROVIDE GROUND & NEUTRAL BUS PROVIDE 'NM' WHERE ALLOWED BY AHJ							
FED FROM: METER CENTER				LUUGS: <input type="checkbox"/> SUB-FEED <input type="checkbox"/> FEED-THRU				ENCLOSURE: NEMA 1				PROVIDE TYPED WRITTEN DIRECTORY PROVIDE GROUND & NEUTRAL BUS PROVIDE 'NM' WHERE ALLOWED BY AHJ							
NO.	CIRCUIT DESCRIPTION	NOTES	BRANCH CIRCUIT			BKR	PHASE	BRANCH CIRCUIT			BKR	PHASE	BRANCH CIRCUIT			BKR	CIRCUIT DESCRIPTION	NO.	
			#	NEUT	COND			#	NEUT	COND			#	NEUT	COND				
1	KITCHEN RECEPTACLES		1	12	12	12	NM	20/1	1.50	A	1.94	40/2	8	8	10	NM	AHU-1	2	
3	KITCHEN RECEPTACLES		1	12	12	12	NM	20/1	1.50	B	1.94	-	8	-	-	-	CU-1	4	
5	BATHROOM RECEPTACLES		1	12	12	12	NM	20/1	1.50	A	1.00	20/2	-	-	-	4	CU-1	6	
7	REFRIGERATOR		1	14	14	14	NM	15/1	0.84	B	1.00	-	-	-	-	-	-	8	
9	GARBAGE DISPOSAL/DISHWASHER		3	12	12	12	NM	20/1	2.00	A	6.00	40/2	8	8	10	NM	RANGE	10	
11	MICROWAVE/HOOD		1	12	12	12	NM	20/1	1.20	B	6.00	-	8	-	-	-	-	12	
13	BEDROOM LIGHTS/RECEPTS - BATHROOM LIGHTS		1	14	14	14	NM	15/1	1.20	A	2.25	30/2	10	10	10	NM	2	EMW-1	14
15	LIVING ROOM LIGHTS/RECEPTACLES		1	14	14	14	NM	15/1	1.20	B	2.25	-	10	-	-	-	-	16	
17	KITCHEN LIGHTS/CORRIDOR RECEPTS.		1	14	14	14	NM	15/1	1.20	A	2.50	30/2	10	10	10	NM	DRYER	18	
19	SPACE ONLY		-	-	-	-	-	-	-	B	2.50	-	10	-	-	-	-	20	
21	SPACE ONLY		-	-	-	-	-	-	-	A	1.50	20/1	12	12	12	NM	3	WASHER	22
23	SPACE ONLY		-	-	-	-	-	-	-	B	-	-	-	-	-	-	-	24	
EQUIPMENT SERVED						CONN. LOAD			L.F.			D.F.			DEMAND LOAD				

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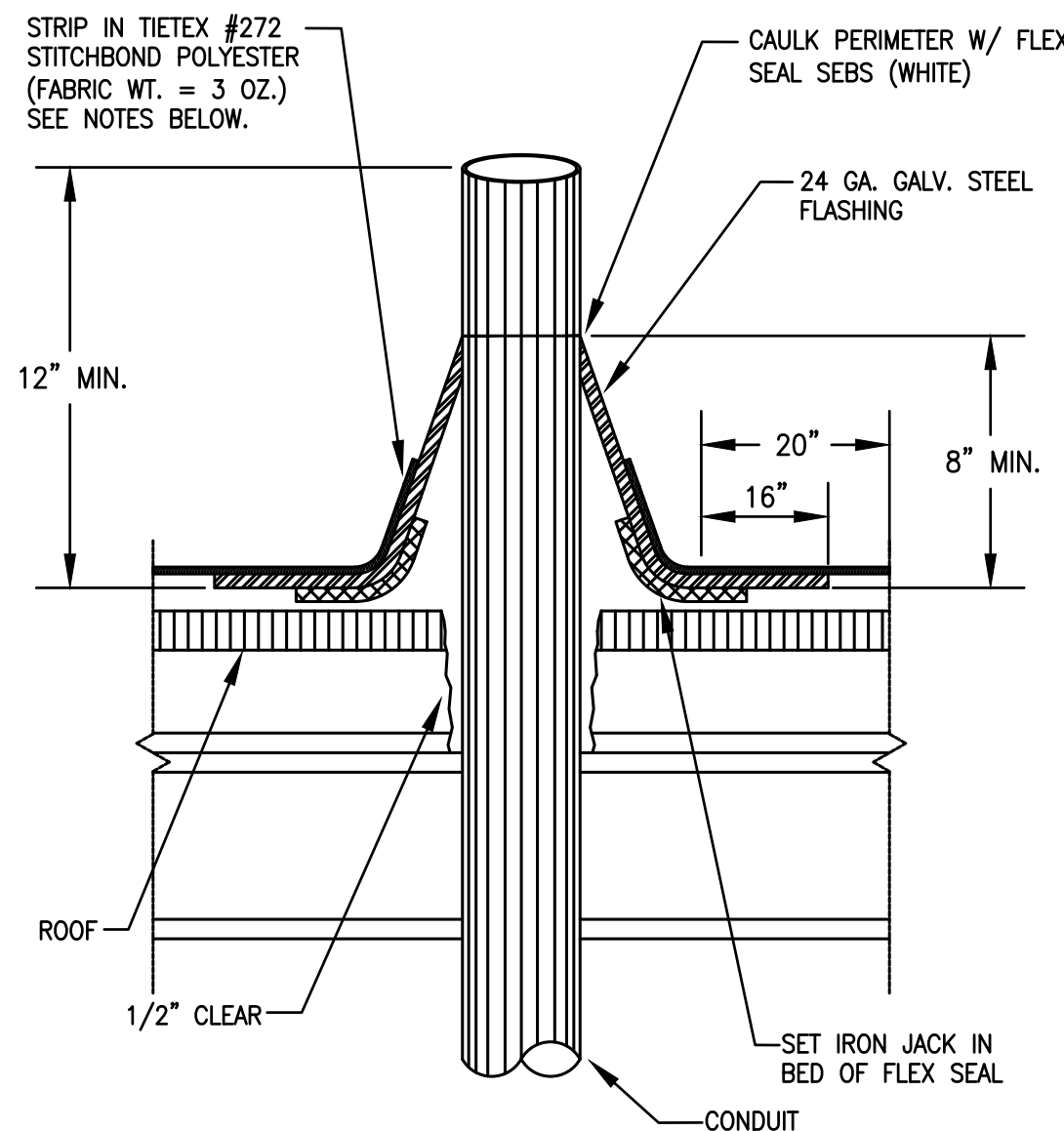
LIGHTING FIXTURE SCHEDULE - BUILDINGS									
MARK	DESCRIPTION	MANUFACTURER	MODEL	VOLTS	LAMP QTY	LAMP WATTS	LAMP MODEL	FIXTURE WATTS	
BA	7" ROUND LED SLIM SURFACE MOUNTED FIXTURE ALUMINUM FINISH, UL LISTED, ENERGY STAR CERTIFIED, DAMP LOCATION RATED LOCATED AT MAIN CORRIDORS AND MISC. ROOMS.	PHILLIPS	S7R835K10AL	120	-	14.4	LED	14.4	
BB	7" ROUND LED SLIM SURFACE MOUNTED FIXTURE ALUMINUM FINISH, UL LISTED, ENERGY STAR CERTIFIED, DAMP LOCATION RATED LOCATED AT STORAGE CLOSETS.	PHILLIPS	S7R835K10AL	120	1	14.4	LED	14.4	
	4" SURFACE MOUNTED LED STARWELL WITH INTEGRATED MOTION SENSOR AND 8-LEVEL BALLAST.	PHILLIPS	SF4C38A35UDZT-US-EMLED	120	1	53	LED	53	
BD	SURFACE MOUNTED HIGH OUTPUT LED WRAP WITH EMERGENCY BATTERY BACKUP LOCATED AT ELEVATOR.	H.E. WILLIAMS	75L-4-LS0/B35-AF12125-EM/10WLP-DIM-UNV	120	1	37	LED	37	
BF	1'X4" LED WRAPAROUND FIXTURE WITH BAKED WHITE FINISH, FROSTED ACRYLIC LENS, DAMP LOCATED RATED LOCATED AT ELECTRICAL ROOMS AND GARAGES.	PHILLIPS	FSW-4-30L-835-UNV-DIM	120	1	31	LED	31	
BJ	1'X4" LED SURFACE MOUNTED ENCLOSED AND GASKETED FIBERGLASS FIXTURE, UL WET LABEL RATED.	COLUMBIA	LXEM4-35ML-DFA-EU	120	1	47	LED	47	
BW	EXTERIOR BUILDING LED WALL SCENCE IN DIE-CAST ALUMINUM HOUSING, IP RATED, UL WET LABEL RATED	H.E. WILLIAMS	WVPH-L30/740-T3-DBZ-SDGL-DIM-UNV	120	1	36	LED	36	
EM	WALL MOUNTED EMERGENCY LIGHT WITH THERMOPLASTIC HOUSING, WHITE FINISH, TWIN HEADS AND BATTERY BACKUP.	BEGHELLI	PEH-T20	120	2	1.7	LED	3.4	
EM2	WALL MOUNTED ECOO LUNA LED EMERGENCY LIGHT WITH CORROSION/FLAME/VAPOUR RESIST POLYCARBONATE HOUSING, BATTERY BACKUP, UL WET LABEL RATED	BEGHELLI	EL-SE-205LED-120/277-W	120	2	5.5	LED	10	
X1	UNIVERSAL FACE/MOUNT EXIT SIGN WITH WHITE THERMOPLASTIC HOUSING, RED LETTERS, BATTERY BACKUP, DAMP LABEL RATED	BEGHELLI	PX-R-SA-AT	120	-	-	LED	-	
NOTES: 1. DIVISION 16 CONTRACTOR SHALL VERIFY ALL FIXTURE TYPES AND FINISHES WITH OWNER PRIOR TO ORDERING.									

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E5.02

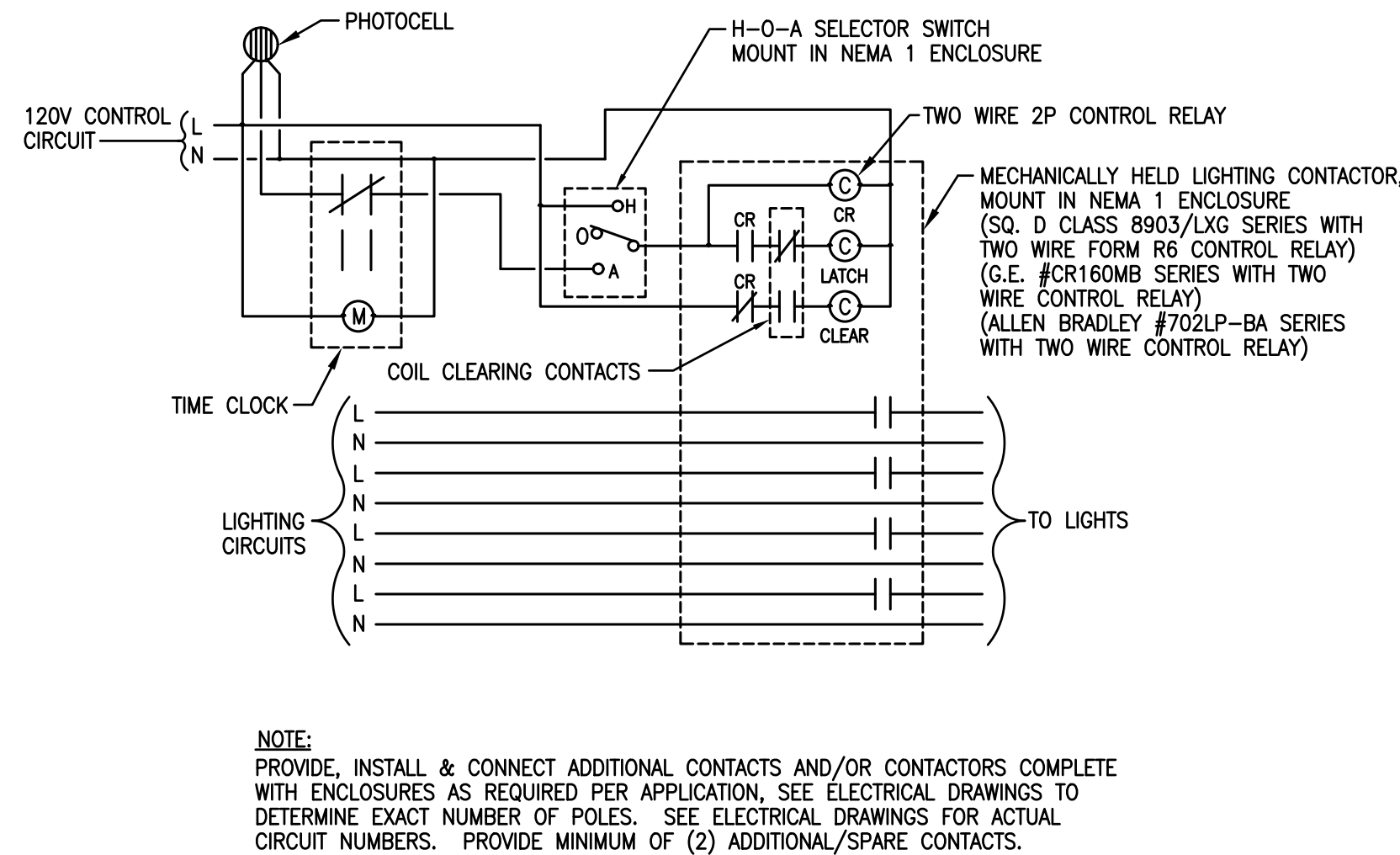


4 COMMUNICATION RISER DIAGRAM
NTS

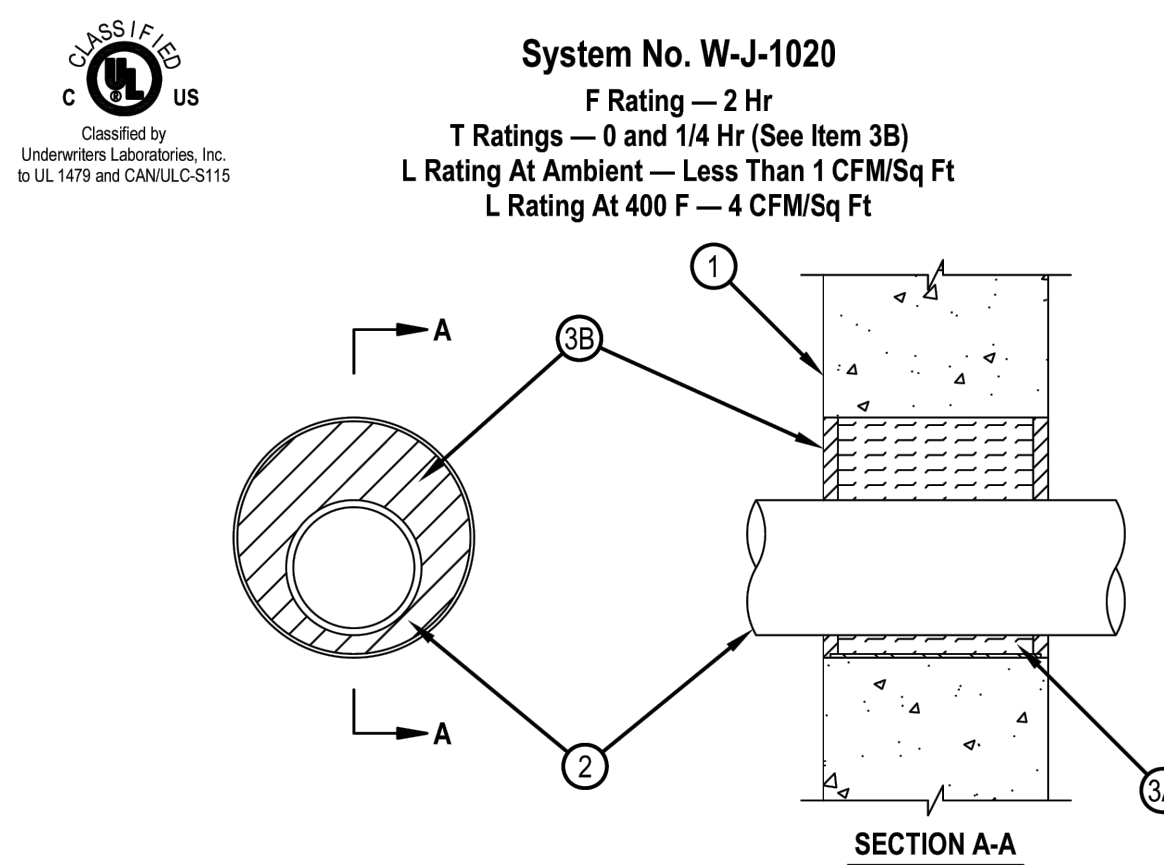


- NOTES:
- ALL SURFACES TO BE CLEAN (FREE OF DIRT, GREASE, SCALE, PAINT, ETC.)
 - WIRE BRUSH ALL LOOSE MATERIAL AS REQUIRED.
 - PRIME EXISTING ROOF AND FLASHING W/ SB ELASTOMERIC PRIMER.
 - 5 COURSE: 2 PLYS TIETEX W/ SB ELASTOMERIC GEL (FEATHER SECOND PLY) AT MIN. 40 MIL UNCURED PER COURSE.
 - TOP COAT W/ K-2 EXTREME DUTY ELASTOMER (MATCH ROOF COLOR)
 - DETAIL SHOW FOR WEATHERPROOFING PENETRATION ONLY. CONTRACTOR SHALL PROVIDE FIRESTOPPING AS REQUIRED TO MAINTAIN FIRE RATING OF ROOF.

1 ROOF PENETRATION WEATHERPROOF DETAIL
NTS



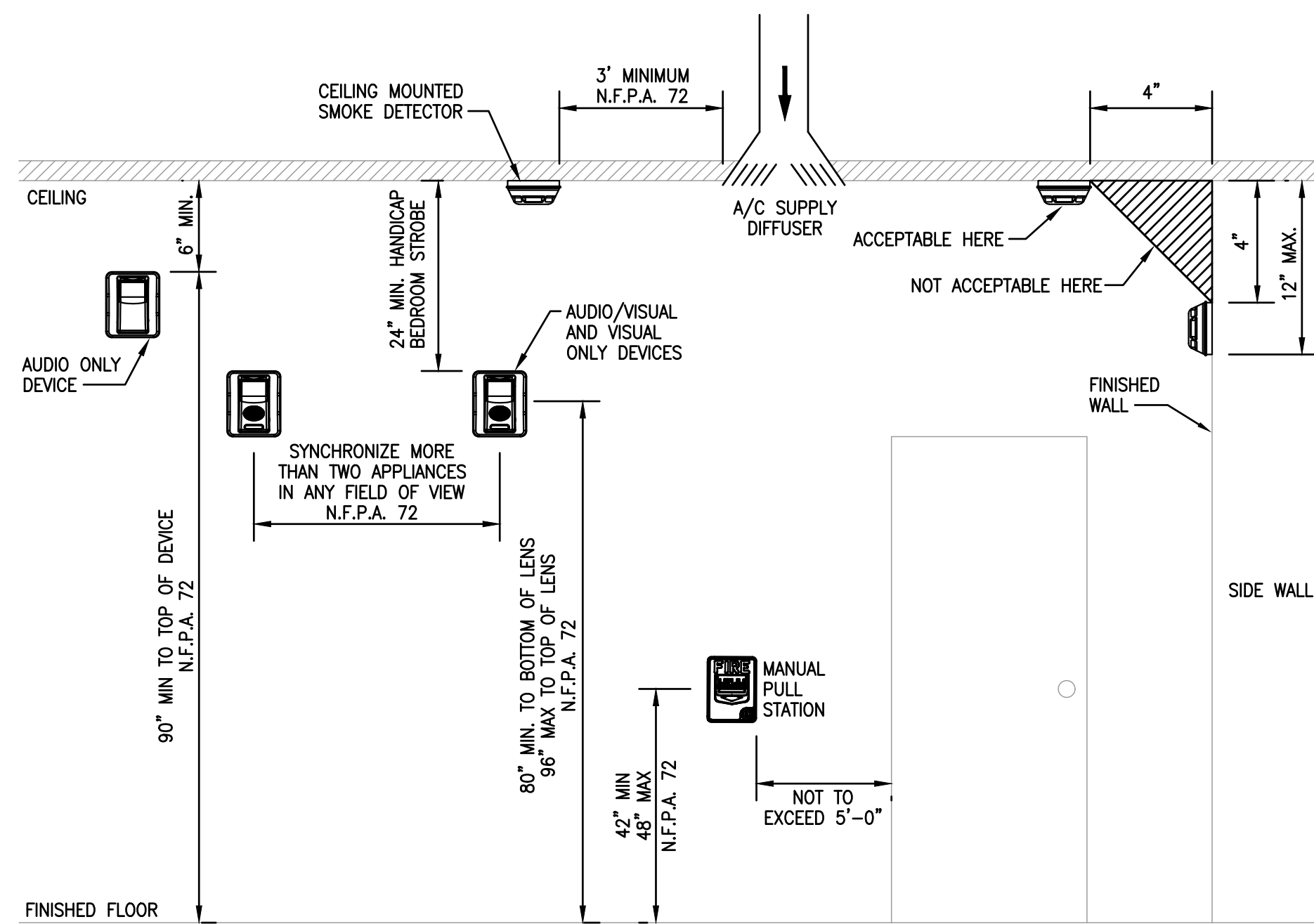
5 CONTACTOR 'LC1' SCHEMATIC - PHOTOCELL & TIMECLOCK CONTROLLED
NTS



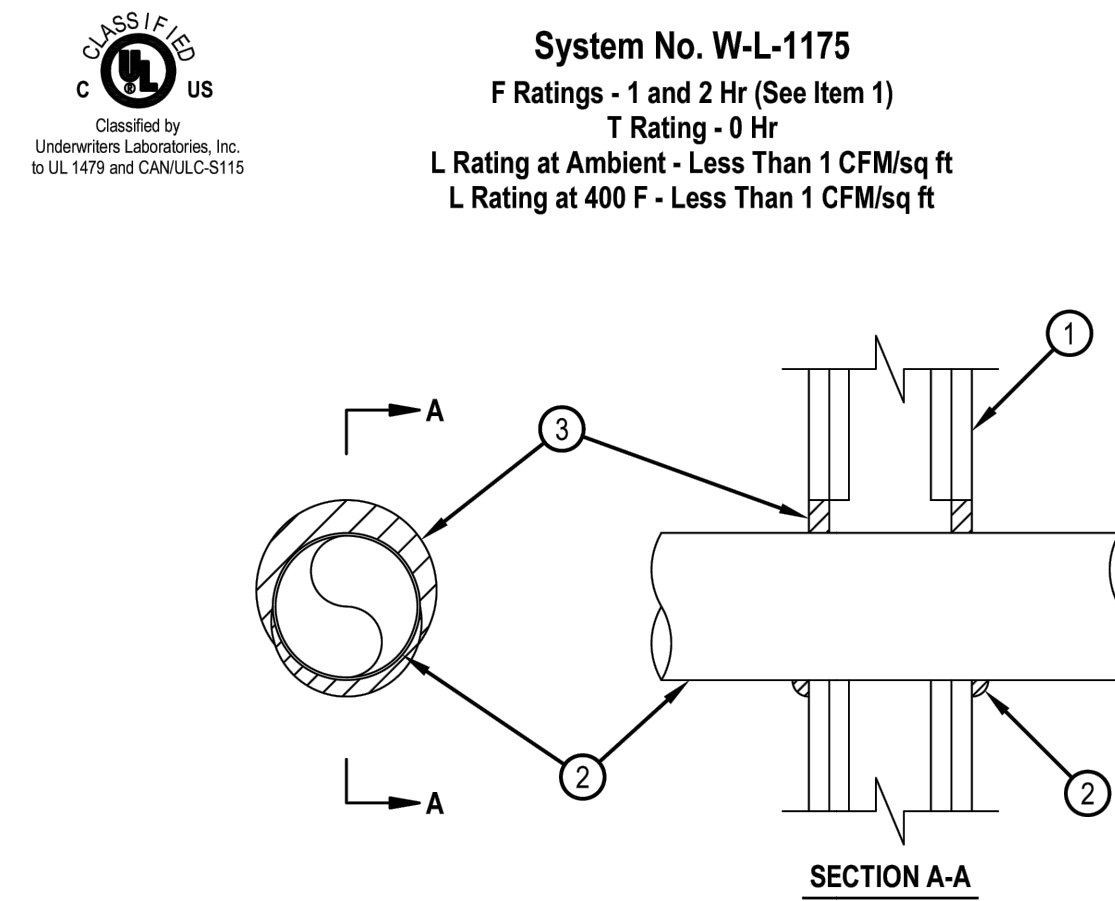
1. Wall Assembly — Min 5 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 8 in.
2. Through Penetrants — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The annular space between pipe, conduit or tubing and periphery of opening shall be min. 3/4 in. to max. 5/12 in. The following types and sizes of metallic pipes, conduits or tubing may be used:
- A. Conduit — Nom 4 in. diam (or smaller) electrical metallic tubing or steel conduit.
- B. Copper Tubing — Nom 4 in. diam (or smaller) Type L (or heavier) copper tubing.
- C. Copper Pipe — Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe.
3. Firestop System — The hourly F and T Rating for the firestop systems are dependent upon the type and size of pipe, annular space, fill material thickness and fill material type as described in the table below. When the annular space in the table shows a range of distances, the penetrating item may be installed either concentrically or eccentrically within the firestop system. The firestop systems shall consist of the following:
- A. Packing Material — Mineral wool batt insulation firmly packed into opening as a permanent form. As an option to the above, backer rod and/or foamed plastic backer material may be used. Packing material to be recessed from both surfaces of wall as required to accommodate the required thickness of fill material.
- B. Fill, Void or Cavity Material — Sealant* — Applied within the annulus, flush with both surfaces of wall as shown in the table below:
- | Pipe Type | Min Fill Mtl Thkns in. | F Rating Hr. | T Rating Hr. |
|-----------|------------------------|--------------|--------------|
| 2A | 1/4 | 2 | 1/4 |
| 2B | 1/2 | 2 | 0 |

*Bearing the UL Classification Mark

2 UL FIRE RATED DETAIL (W-J-1020)
NTS



6 STANDARD MOUNTING HEIGHT DETAIL
NTS



1. Wall Assembly — The 1 or 2 hr fire rated wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
- A. Studs — Wall framing shall consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.
- B. Gypsum Board* — Nom 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the Fire Resistance Directory. Max diam of opening is 5-1/2 in.
- The hourly F and T Ratings of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. Through Penetrant — One metallic tubing or conduit installed concentrically or eccentrically within the firestop system. Tube or conduit to be rigidly supported on both sides of wall assembly. The annular space between the tube or conduit and periphery of the steel sleeve shall be min 0 in. (point contact) to max. 1 in. The following types and sizes of metallic tube or conduit may be used:
- A. Conduit — Nom 4 in. diam (or smaller) steel electrical metallic tubing or steel conduit.
3. Fill Void or Cavity Material* — Putty — Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At point contact location between penetrant and wall, a 1/4 in. crown of fill material shall be applied at the conduit/wall interface on both sides of the assembly, lapping 1/4 in. on the conduit and 1/4 in. beyond the periphery of the opening.

*Bearing the UL Classification Mark

3 UL FIRE RATED DETAIL (W-L-1175)
NTS



ISSUE HISTORY

No.	Date	Description
1	04/15/22	Permit Submission

REVISION HISTORY

No.	Date	Description



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JLC 22.0023.00



THE MADISON

HUNTSVILLE, AL

DETAILS
ELECTRICAL

E6.01

Drawn: MRSMB
Checked: BLSA/B
Approved: BLSA/B
Date: 04/15/2022
Project #: 5722

ELECTRICAL SPECIFICATIONS

I. GENERAL REQUIREMENTS:

A. DO ALL WORK IN COMPLIANCE WITH THE LATEST ADOPTED EDITION OF THE INTERNATIONAL BUILDING CODE (IBC-2020), NFPA 70 (NEC-2017) AND NFPA 101 (LIFE SAFETY CODE-2015), AND THE REGULATIONS OF THE LOCAL UTILITY TELEPHONE AND POWER UTILITIES. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ANY AND ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATES OF INSPECTIONS AND APPROVAL, AND THE LIKE, AND DELIVER SUCH CERTIFICATES TO THE ENGINEER.

B. THE CONTRACTOR SHALL FURNISH, PERFORM, OR OTHERWISE PROVIDE ALL LABOR (INCLUDING, BUT NOT LIMITED TO, ALL PLANNING, PURCHASING, PAINTING, TRANSPORTING, RIGGING, HOSTING, STORING, INSTALLING, TESTING, CHASING, CHANNELING, CUTTING, TRENCHING, EXCAVATING AND BACKFILLING), COORDINATION, FIELD VERIFICATION, EQUIPMENT INSTALLATION, SUPPORT, AND SAFETY, SUPPLIES, AND MATERIALS NECESSARY FOR THE CORRECT INSTALLATION OF COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEMS (AS DESCRIBED OR IMPLIED BY THESE SPECIFICATIONS AND THE APPLICABLE DRAWINGS).

C. ALL DRAWINGS AND SPECIFICATIONS ON THE PROJECT ARE COMPLEMENTARY. EACH TO ALL OTHER SETS, AND THEY SHALL BE USED IN CONJUNCTION FOR THE EXECUTION OF THIS WORK. DIVISION 16 WORK SHOWN ON ANY ONE SET OF DRAWINGS, INCLUDING ALL ARCHITECTURAL DRAWINGS, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR GENERAL WORK AND EQUIPMENT, AND DIVISION 16 WORK CALLED FOR UNDER ANY SECTION OF THE PROJECT SPECIFICATIONS, SHALL BE CONSIDERED AS INCLUDED IN THIS WORK UNLESS SPECIFICALLY EXCLUDED BY INCLUSION IN SOME OTHER BRANCH OF THE WORK. THIS SHALL INCLUDE ROUGH-IN FOR CONNECTIONS AND EQUIPMENT AS CALLED FOR OR IMPLIED. THE CONTRACTOR SHALL CHECK ALL DRAWINGS AND SPECIFICATIONS FOR THE PROJECT AND SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL DIVISION 16 WORK.

D. THE CONTRACTOR SHALL CAREFULLY CHECK THE DRAWINGS AND SPECIFICATIONS OF ALL OTHER TRADES AND DIVISIONS BEFORE INSTALLING ANY OF HIS WORK. HE SHALL IN ALL CASES CONSIDER THE WORK OF ALL OTHER TRADES, AND SHALL COORDINATE HIS WORK WITH THEM SO THAT THE BEST ARRANGEMENTS OF ALL EQUIPMENT, PIPING, CONDUIT, DUCTS, ROUGH-IN, ETC., CAN BE OBTAINED.

E. LOCATIONS DESIGNATED FOR OUTLETS, SWITCHES, DEVICES, EQUIPMENT, ETC., ARE APPROXIMATE AND FINAL LOCATIONS SHALL BE VERIFIED IN THE FIELD. CONTRACTOR SHALL LOCATE ALL DEVICES UP TO 5 FEET IN ANY DIRECTION AS DIRECTED BY OWNER AND PER CODE. WHERE INSTRUCTIONS OR NOTES ARE INSUFFICIENT TO CONVEY THE INTENT OF THE DESIGN, CONSULT THE OWNER PRIOR TO BIDDING AND INSTALLATION.

F. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND COORDINATING THE LOCATIONS OF DEVICES TO BE USED AND COORDINATING THE FINAL LOCATIONS OF ELECTRICAL EQUIPMENT WITH MILLWORK, SINKS, BENCHES, COUNTERS AND SHELVING PRIOR TO BIDDING AND INSTALLATION. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER.

G. DIVISION 16 CONTRACTOR SHALL HAVE HAD EXPERIENCE OF AT LEAST THE SAME SIZE AND SCOPE AS THIS PROJECT, ON AT LEAST TWO OTHER PROJECTS WITHIN THE LAST FIVE YEARS IN ORDER TO BE QUALIFIED TO BID THIS PROJECT.

H. CONTRACTOR SHALL DOES HEREBY WARRANT ALL MATERIALS AND EQUIPMENT FURNISHED UNDER THIS SECTION OF THE SPECIFICATIONS TO BE FREE FROM DEFECTS AND TO FUNCTION OR OPERATE SATISFACTORILY FOR ONE YEAR AFTER FINAL ACCEPTANCE OF THE WORK, AND THAT ANY ITEMS NOT MEETING THIS REQUIREMENT WILL BE MADE GOOD BY HIM WITHOUT COST TO THE OWNER, PROVIDED SUCH DEFECTS OR FAILURES ARE NOT DUE TO ABUSE, NEGLIGENCE, OR LACK OF REASONABLE AND ORDINARY MAINTENANCE.

I. ALL WORK SHALL BE EXECUTED IN A WORKMANSHIP MANNER DISPLAYING A NEAT MECHANICAL APPEARANCE UPON COMPLETION.

J. BALANCE TOTAL PHASE LOADS IN EACH ELECTRICAL PANEL TO A VALUE WITHIN 10% OF EACH OTHER.

K. THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION, WHEREVER WORK IS TO BE PERFORMED IN FINISHED/OCCUPIED SPACES, TO PREVENT DAMAGE TO ADJACENT AREAS, EQUIPMENT, OR FURNISHINGS; TO PREVENT ACCIDENTAL INJURY TO BUILDING OCCUPANTS AND THE PUBLIC; TO PREVENT THE SPREADING OF DUST, DIRT, DEBRIS, AND MOISTURE FROM THE AREA WHERE WORK IS BEING PERFORMED; AND TO PREVENT DUST, DIRT, DEBRIS, AND MOISTURE FROM GETTING ON OR IN THE BUILDING OCCUPANT'S FURNISHINGS OR EQUIPMENT.

L. THE CONTRACTOR SHALL REPAIR, AT NO COST TO THE OWNER, ANY DAMAGE DONE BY HIMSELF OR HIS EMPLOYEES. HE SHALL ALSO BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED TO PROPERLY INSTALL HIS WORK. THIS SHALL ALSO INCLUDE THE PATCHING OF EXISTING ROADWAYS (PAVED OR IMPROVED), PARKING AREAS, SIDEWALKS, WALLS, STAIRS, MECHANICAL WORK, CURBS, GUTTERS, ETC., CUT TO INSTALL WORK PROVIDED BY THE CONTRACTOR. PATCH WORK SHALL COMPLY WITH THE APPLICABLE SECTIONS OF THESE SPECIFICATIONS AND SHALL MATCH THE EXISTING FINISHES.

M. UPON COMPLETION OF WORK, THE ENTIRE WIRING SYSTEM SHALL BE TESTED, AND SHALL BE SHOWN TO BE IN PROPER WORKING CONDITION IN ACCORDANCE WITH INTENT OF SPECIFICATIONS AND DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL SYSTEMS READY FOR OPERATION AND TO HAVE AN ELECTRICIAN AVAILABLE TO OPERATE SAME IN ACCORDANCE WITH AND UNDER THE SUPERVISION OF THE INSPECTION REPRESENTATIVE OF THE ENGINEER. THE CONTRACTOR SHALL BE AVAILABLE TO ASSIST IN REMOVAL OF PANEL FRONTS, ETC., TO PERMIT INSPECTION AS REQUIRED.

N. IN ACCORDANCE WITH DIVISION 1 AND THE CONDITIONS OF THE CONTRACT, THE CONTRACTOR SHALL PROVIDE AND KEEP UP TO DATE A COMPLETE RECORD SET OF CONSTRUCTION "AS-BUILT" BLUELINE PRINTS WHICH SHALL BE CORRECTED DAILY, AND SHALL SHOW EVERY CHANGE FROM THE ORIGINAL CONTRACT DRAWINGS, INCLUDING ADDITION AND CHANGE ORDERS IN ACCORDANCE WITH GENERAL REQUIREMENTS AND SPECIAL CONDITIONS. THIS SET OF PRINTS SHALL BE KEPT ON THE JOB SITE, AND SHALL BE USED ONLY AS A RECORD SET. THIS SHALL NOT BE CONSTRUED AS AUTHORIZATION FOR THE CONTRACTORS TO MAKE CHANGES IN THE DRAWING WITHOUT DEFINITE INSTRUCTION IN EACH CASE.

II. ELECTRICAL SCOPE:

A. FURNISHING AND INSTALLATION OF POWER SYSTEMS, AND AUXILIARY SYSTEMS AS SHOWN OR HEREIN SPECIFIED.

B. CONNECTION OF ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTION, MENTIONED IN THIS DIVISION OR SHOWN ON DRAWINGS, WHETHER FURNISHED BY DIVISION 16 OR UNDER OTHER DIVISIONS, OR FURNISHED BY OWNER.

C. FURNISHING AND INSTALLATION OF OUTLET BOXES, CONDUIT RACEWAYS, FOR A TELEPHONE AND DATA RACEWAY DISTRIBUTION SYSTEM. (TELEPHONE AND DATA HARDWARE, AS WELL AS WIRING AND SOFTWARE IS NOT INCLUDED.)

D. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR CONTACTING THE OFFICES OF ALL LOCAL AND/OR STATE AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT IN ORDER TO SCHEDULE ALL REQUIRED INSPECTIONS AND OBTAIN ALL NECESSARY PERMITS, ETC. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ALL SCHEDULED INSPECTIONS AT LEAST TWO WEEKS IN ADVANCE OF THE SCHEDULED DATE.

E. THE CONTRACTOR SHALL REPLACE ANY DEFECTIVE MATERIALS, EQUIPMENT, OR WORKMANSHIP WITHOUT COST TO THE OWNER WITHIN THE STIPULATED GUARANTEED PERIOD.

F. IT SHALL BE THE RESPONSIBILITY OF THE DIVISION 16 CONTRACTOR TO HAVE ALL SYSTEMS READY FOR OPERATION AND TO HAVE AN ELECTRICIAN AVAILABLE FOR ALL INSPECTIONS. THE CONTRACTOR SHALL PROVIDE PERSONNEL TO ASSIST IN REMOVAL OF PANEL FRONTS, ETC. TO PERMIT INSPECTION AS REQUIRED.

G. SUBMIT TO THE ARCHITECT/ENGINEER PROMPTLY AFTER AWARD OF CONTRACT AND PRIOR TO PURCHASING, SIX COPIES OF MANUFACTURER'S SHOP DRAWINGS IN ACCORDANCE WITH DIVISION 1, SECTION 01300 - SUBMITTALS FOR THE FOLLOWING ITEMS: ALL SHOP DRAWINGS OF A SPECIFIC ITEM OR SYSTEM SHALL BE MADE IN ONE SUBMITTAL AND WITHIN TEN DAYS AFTER AWARD OF CONTRACT.

1. PANELBOARDS
2. SUPPORTS
3. WIRING DEVICES
4. DISCONNECT SWITCHES
5. CONDUITS
6. WIRE

H. COMPLETED WIRING SYSTEMS SHALL BE FREE FROM SHORT CIRCUITS AND AFTER COMPLETION, PERFORM TESTS FOR INSULATION RESISTANCE IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE. ALL WIRING SYSTEMS SHALL BE COMPLETELY AND TOTALLY "SAFED" DURING CONSTRUCTION. ONLY QUALIFIED PERSONNEL SHALL HANDLE ELECTRICAL SYSTEMS.

I. BEFORE ROUGH-IN OF CIRCUITRY OR CONNECTING TO EQUIPMENT, FURNISHED UNDER THIS DIVISION, ANY OTHER DIVISION, OR BY THE OWNER, THE CONTRACTOR SHALL VERIFY THE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF THE EQUIPMENT BEING FURNISHED AND FOR THAT SPECIFIED AND SHOWN ON THE DRAWINGS AND PROVIDE FOR PROPER ROUGH-IN AND CONNECTION.

J. THE ELECTRICAL CIRCUITS, COMPONENTS, AND CONTROLS FOR ALL EQUIPMENT ARE SELECTED AND SIZED, BASED ON THE EQUIPMENT AS SPECIFIED. IF SUBSTITUTIONS AND/OR EQUIPMENT EQUIPMENT ARE FURNISHED, IT SHALL BE THE RESPONSIBILITY OF ALL PARTIES CONCERNED, INVOLVED IN, AND FURNISHING THE SUBSTITUTE AND/OR EQUIPMENT EQUIPMENT TO VERIFY AND COMPARE THE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF THAT FURNISHED TO THAT SPECIFIED AND/OR SHOWN. IF GREATER CAPACITY OR MORE MATERIALS OR LABOR IS REQUIRED FOR THE ROUGH-IN, CIRCUITRY OR CONNECTIONS THAN FOR THE ITEM SPECIFIED AND PROVIDED FOR, THEN IT SHALL BE THE RESPONSIBILITY OF THE PARTIES INVOLVED IN PROVIDING THE SUBSTITUTE AND/OR EQUIPMENT ITEMS OF EQUIPMENT TO PROVIDE ALL COMPENSATION FOR ADDITIONAL CHARGES MADE FOR THE PROPER ROUGH-IN, CIRCUITRY AND CONNECTIONS FOR THE EQUIPMENT FURNISHED. NO ADDITIONAL CHARGES ABOVE THE BASE BID SHALL BE ALLOWED FOR SUCH REVISIONS.

K. EXCAVATION FOR UNDERGROUND ELECTRICAL STRUCTURES: CONFORM TO ELEVATIONS AND DIMENSIONS SHOWN WITHIN A TOLERANCE OF PLUS OR MINUS 0.10"; PLUS A SUFFICIENT DISTANCE TO PERMIT PLACING AND REMOVAL OF CONCRETE FORMWORK, INSTALLATION OF SERVICES, OTHER CONSTRUCTION, AND FOR INSPECTION.

L. TRENCHING: EXCAVATE TRENCHES FOR ELECTRICAL INSTALLATIONS AS FOLLOWS:

1. EXCAVATE TRENCHES TO THE UNIFORM WIDTH, SUFFICIENTLY WIDE TO PROVIDE AMPLE WORKING ROOM AND A MINIMUM OF 6" TO 9" CLEARANCE ON BOTH SIDES OF RACEWAYS AND EQUIPMENT.
2. EXCAVATE TRENCHES TO DEPTH INDICATED OR REQUIRED.
3. LIMIT THE LENGTH OF OPEN TRENCH TO THAT IN WHICH INSTALLATIONS CAN BE MADE AND THE TRENCH BACKFILLED WITHIN THE SAME DAY.
4. WHERE ROCK IS ENCOUNTERED, GRADY EXCAVATION BELOW REQUIRED ELEVATION AND BACKFILL WITH A LAYER OF CRUSHED STONE OR GRAVEL PRIOR TO INSTALLATION OF RACEWAYS AND EQUIPMENT. PROVIDE A MINIMUM OF 6" OF STONE OR GRAVEL CUSHION BETWEEN ROCK BEARING SURFACE AND ELECTRICAL INSTALLATIONS.

M. THE CONTRACTOR SHALL PROVIDE ALL INSERTS FOR THE SUPPORT OF DIVISION 16 EQUIPMENT TO BE PLACED IN CONCRETE OR THROUGH CONCRETE SLABS AS CONSTRUCTION PROGRESSES. HE SHALL PROVIDE ALL MISCELLANEOUS HANGING AND SUPPORTING HARDWARE. ALL ELECTRICAL WORK IS TO BE CONCEALED IN OR BUILT INTO GENERAL CONSTRUCTION SHALL BE PLACED AS CONSTRUCTION PROGRESSES. FAILURE OF THE CONTRACTOR TO COORDINATE WORK WITH OTHER TRADES AND THE PROJECT CONSTRUCTION PROGRESS SHALL MAKE HIM RESPONSIBLE FOR ALL COST OF CUTTING AND PATCHING, AS REQUIRED TO INSTALL WORK. NO STRUCTURAL MEMBER, MAJOR CONSTRUCTION OR FINISHED WORK SHALL BE CUT OR ALTERED WITHOUT PRIOR WRITTEN APPROVAL BY THE ARCHITECT/ENGINEER. CONTRACTOR SHALL FIRE RATE ALL PENETRATIONS THROUGH ALL FIRE RATED SLABS OR WALLS PER THE INTENDED RATING.

N. THE CONTRACTOR SHALL SUPPLY AND SET INTO PLACE ALL WALL SLEEVES FOR CONDUITS AND CEILING INSTRUCTS FOR HANGERS IN AREAS OF NEW CONSTRUCTION AS BUILDING CONSTRUCTION PROGRESSES. INSTALL EQUIPMENT NOTED IN CONSTRUCTION DRAWINGS. WALLS BEFORE WALLS ARE CONSTRUCTED IN ORDER THAT WALLS MAY BE CONSTRUCTED AROUND CONDUITS, ENCLOSURES, ETC.

O. METALLIC MATERIALS SHALL BE PROTECTED AGAINST CORROSION. EQUIPMENT ENCLOSURES SHALL BE GIVEN RUST-INHIBITING TREATMENT AND STANDARD FINISH BY MANUFACTURER. ALUMINUM SHALL NOT BE USED ON CONTACT WITH EARTH, AND, WHERE CONNECTED TO DISSIMILAR METAL, SHALL BE PROTECTED BY SUITABLE FITTINGS AND TREATMENT. ALL TERRIBLE METALS SUCH AS ANCHORS, BOLTS, BRACKES, BOXES, BODIES, CLAMPS, FITTINGS, GASKETS, NUTS, PINS, RODS, SHIMS, THIMBLES, WASHERS, AND MISCELLANEOUS PARTS, NOT OF STAINLESS STEEL, OR NONFERROUS MATERIALS, SHALL BE HOT-DIPPED GALVANIZED.

P. ALL CONDUITS STUBBED OUT FOR FUTURE USE SHALL HAVE A PULL WIRE INSTALLED, A PLASTIC CAP INSTALLED AND BE IDENTIFIED AS TO THE CONDUIT ORIGIN.

Q. THE RESPONSIBILITY FOR ANY CUTTING OF CONSTRUCTION WHICH IS REQUIRED FOR THE INSTALLATION OF DIVISION 16 WORK, SHALL BE BY THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES AND THE OWNER BEFORE ANY CUTTING AND OBTAIN APPROVAL FROM THE ARCHITECT/ENGINEER PRIOR TO ANY CUTTING. ALL PATCHING AND FINISHING SHALL BE BY THE CONTRACTOR.

R. WHERE OPENINGS OR HOLES ARE CUT IN CONSTRUCTION AND THE CUTTING BREAKS ELECTRICAL CIRCUITRY OR CONTROL CIRCUITRY CONDUIT AND WIRING, THEN IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REROUTE THE CIRCUITRY CONDUIT AND REWIRING AND TO COMPLETE THE CIRCUITRY AS REQUIRED AND AS APPROVED BY THE ARCHITECT/ENGINEER. TEMPORARY COMPLETION SHALL BE PROVIDED WHERE NECESSARY BEFORE THE PERMANENT REROUTING AND COMPLETION WORK IS FINISHED.

S. ANY PENETRATIONS OF FIRE OR SMOKE RATED ASSEMBLIES MADE BY THIS CONTRACTOR IN VERTICAL OR HORIZONTAL CONSTRUCTION SHALL BE SEALED AND PROTECTED BY THIS CONTRACTOR IN ORDER TO MAINTAIN THE ESTABLISHED FIRE RATING WITH METHODS AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.

III. IDENTIFICATION:

A. IDENTIFICATION NAMEPLATES SHALL BE LAMINATED PLASTIC, SECURED TO EQUIPMENT WITH TWO SCREWS.

B. EACH PANELBOARD AND SWITCHBOARD SHALL BE EQUIPPED WITH A PERMANENT PLASTIC NAMEPLATE WITH 1/2" MINIMUM LETTERS, SECURELY FASTENED TO THE DEVICE.

C. EACH INDIVIDUALLY MOUNTED CIRCUIT BREAKER, SWITCH, TRANSFER SWITCH, MOTOR STARTER, LIGHTING CONTROLLER, TRANSFORMER AND/OR ANY OTHER CONTROL OR PROTECTIVE DEVICE, INCLUDING EQUIPMENT DISCONNECT SWITCHES SHALL BE EQUIPPED WITH A PERMANENT PLASTIC NAMEPLATE WITH 1/2" MINIMUM LETTERS.

D. PANELBOARDS SHALL HAVE TYPENRITTEN DIRECTORIES. ALL CIRCUITS TO BE IDENTIFIED BY DEVICES SERVED AND ROOM NUMBERS (I.E., LIGHTING ROOM 216). HANDWRITTEN DIRECTORIES WILL NOT BE ALLOWED.

E. EACH JUNCTION BOX CABINET OR WIREWAY LARGER THAN 6" X 6" SHALL BE EQUIPPED WITH A PLASTIC NAMEPLATE WITH 1/2" MINIMUM LETTERS INDICATING THE SYSTEM ENCLOSED.

F. ALL SYSTEMS JUNCTION BOXES AND CONDUIT SHALL BE COLOR CODED INSIDE AND OUTSIDE OF THE BOX PRIOR TO THE INSTALLATION OF CONDUCTORS PER THE FOLLOWING:

1. CCTV SYSTEM: GREEN
2. TELEPHONE DATA SYSTEM: BLUE
3. FIRE ALARM SYSTEM: RED

G. ENTIRE BOX INSIDE AND OUT, INCLUDING COVER, SHALL BE PAINTED PRIOR TO INSTALLING CONDUCTORS.

IV. WIRING DEVICES:

A. SWITCHES AND RECEPTACLES IN LOBBIES, CORRIDORS OR COMMERCIAL SPACES, UNFINISHED AND MECHANICAL SPACES SHALL BE 20 AMP COMMERCIAL GRADE 125 VAC. GRAY IN COLOR WITH STAINLESS STEEL COVERPLATES.

B. WEATHERPROOF RECEPTACLES SHALL BE GFO TYPES WITH GASKETED STAINLESS STEEL KEY LOCKABLE FLIP COVER TYPE COVERPLATES. SURGE SUPPRESSION TYPE OUTLETS IN MDfs AND IDfs SHALL BE HUBBELL #83625 (BLUE) OR EQUAL.

C. RECEPTACLES PROVIDED FOR ATTACHMENT OF CORD AND PLUG EQUIPMENT SHALL BE HEAVY DUTY, SPECIFICATION GRADE, NON-INTERCHANGEABLE, FLUSH MOUNTED TYPES OF THE PROPER NEMA CONFIGURATION TO SERVE THE EQUIPMENT. NEMA CONFIGURATIONS SHALL BE VERIFIED PRIOR TO INSTALLATION OF CIRCUIT CONDUCTORS. CONTRACTOR TO PROVIDE ALL CONNECTION, WIRING, POTENTIALS FOR DISHWASHERS, COOKING RANGES, OVENS AND GARBAGE DISPOSALS.

D. ALL DEVICES SHALL HAVE PROPER PLATES, CARPET FLANGES, TRIMS, RINGS, ESCUTCHEONS, ETC., AS MANUFACTURED BY SAME MANUFACTURER AS DEVICES. ANY TELEPHONE OR OTHER OUTLET WHICH IS NOT EQUIPPED WITH A PLATE FURNISHED BY OTHERS SHALL HAVE ONE PROVIDED BY THIS CONTRACTOR. DEVICE PLATES SHALL BE COLOR AND TYPE AS SHOWN BELOW.

1. FINISHED SPACES DECORA LINE:
 - a. COORDINATE EXACT COLOR WITH OWNER/ARCHITECT.
2. UNFINISHED OR INDUSTRIAL OR COMMERCIAL TYPE SPACES:
 - a. GRAY DEVICES
 - b. STAINLESS STEEL OR STAMPED GALVANIZED STEEL ON SURFACE MOUNTED BOXES
 - c. STAINLESS STEEL PLATES ON FLUSH MOUNTED BOXES

F. MOUNTING HEIGHTS ARE APPROXIMATE. THE EXACT LOCATIONS AND MOUNTING HEIGHTS SHALL BE DETERMINED ON THE JOB AND SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH ALL TRADES TO INSURE CORRECT INSTALLATION, I.E., OVER CONDUITS IN OR ABOVE BACK-SPLASHES, IN BLOCK WALLS, TILE, AND OTHER SPECIFIC CONSTRUCTION FEATURES. LOCATION OF OUTLETS IN KICK OR UNDER CABINETS, GREATER CAPACITY OR MORE MATERIALS OR LABOR IS REQUIRED IN KICK OR TOE SPACES SHALL BE MOUNTED HORIZONTALLY. OUTLET BOXES SHALL BE MOUNTED TO PREVENT DEVICE PLATE FROM OVERLAPPING BACKSPLASH, TRIM, TILE, ETC. LOCATE SO DEVICE PLATE WILL LAY FLAT AGAINST SURFACE COMPLETELY AROUND THE PERIMETER OF PLATE.

G. OUTLETS, OTHER THAN THOSE COORDINATED WITH COUNTER TOPS, SHELVES, AND CABINETS, SHALL BE MOUNTED TO THE CENTER OF THE OUTLET BOXES THE FOLLOWING DISTANCE ABOVE THE FINISHED FLOOR, UNLESS OTHERWISE INDICATED:

1. RECEPTACLES, GENERAL: 1'-6" AFF
2. TELEPHONE OUTLETS: 1'-6" AFF
3. SWITCHES, GENERAL: 4'-0" AFF

V. RACEWAYS

A. SHALL BE GALVANIZED OUTSIDE AND INSIDE BY HOT DIPPING. E.M.T. SHALL BE ELECTRO-GALVANIZED. CONDUITS SHALL BE AS MANUFACTURED BY REPUBLIC, PITTSBURGH STANDARD, WHEATLAND, TRIANGLE, ALLED, OR YOUNGSTOWN.

B. SHALL BE STANDARD THREADED TYPE, GALVANIZED OUTSIDE AND INSIDE BY HOT DIPPING. THREADLESS AND CLAMP TYPE NOT ACCEPTABLE. SHALL BE AS MANUFACTURED BY RACO, ERROR, OR APPLETON.

C. SHALL BE STEEL THREADED COMPRESSION TYPE. ALL COUPLINGS AND CONNECTORS SHALL BE S.O.D. OR STRUTTED COPPER WITH THIN INSULATION. AN INSULATED GREEN GROUNDING CONDUCTOR SHALL BE PERMANENTLY ATTACHED TO TRIM. PANEL SHALL BE MINIMUM 20" WIDE OR 16" FOR RESIDENTIAL. LOAD CENTERS, UNLESS SPECIFICALLY NOTED OTHERWISE.

D. CONNECTORS SHALL HAVE PLASTIC INSULATED THROAT INSERTS.

E. THE USE OF METAL CLAD CABLE IS ACCEPTABLE IN LOCATIONS AS ACCEPTED BY THE NEC AND ALL LOCAL JURISDICTIONAL CODES.

F. STEEL, METAL CLAD CABLE, TYPE MC, EMPLOYING CIRCUIT CONDUCTORS #12 SOLID TO #2 AWG, SOLID OR STRUTTED COPPER WITH THIN INSULATION, AN INSULATED GREEN GROUNDING CONDUCTOR AND GALVANIZED STEEL INTERLOCKED ARMOR EXCEEDING. THE CABLES SHALL BE SUITABLE FOR USE IN DRY LOCATIONS AT TEMPERATURES NOT EXCEEDING 90° C ON AD CIRCUITS UP TO 600 VOLTS IN ACCORDANCE WITH N.E.C. ARTICLE 330. THE CABLE SHALL BE ONE AND TWO HOUR FIRE RATED PER ANSI/UL 1479 FOR USE IN WALL, CEILING AND FLOOR ASSEMBLIES.

G. FLEXIBLE METALLIC CONDUIT RACEWAYS MAY BE USED TO CONNECT HVAC UNITS LOCATED IN INTERIOR MECHANICAL AREAS. MINIMUM SIZE 3/4".

H. CONDUIT SHALL BE SIZED IN ACCORDANCE WITH THE LATEST NATIONAL ELECTRICAL CODE EXCEPT THAT NO CONDUIT SHALL BE SMALLER THAN 3/4" UNLESS OTHERWISE NOTED. CONDUIT SHALL BE SIZED LARGER THAN REQUIRED ABOVE WHEN SO SHOWN ON THE DRAWINGS OR WHEN REQUIRED BY LOCAL CODE.

I. ANY CONDUIT STUBBED OUT FOR FUTURE SHALL BE CAPPED WITH A PLASTIC CAP AND MARKED WITH A 2" MINIMUM RED METAL TAG WHICH IDENTIFIES CONDUIT ORIGIN. CONDUITS STUBBED UP ABOVE GRADE OR ROOF SHALL BE TAGGED ON THE CONDUIT. CONDUIT STUBBED OUT BELOW GRADE SHALL BE TAGGED ON NEAREST BUILDING WALL, CURB, ETC., DIRECTLY OVER THE CONDUIT RUN. ALL EMPTY CONDUITS SHALL HAVE PULL WIRES.

VI. SCHEDULE 40 RIGID PVC:

A. CONDUIT SHALL BE COMPOSED OF POLYVINYLCHLORIDE AND SHALL BE UL RATED TYPE 40 FOR USE WITH 90°C RATED CONDUCTORS. CONDUIT SHALL CONFORM TO NEMA STANDARDS AND APPLICABLE SECTIONS OF NEC.

B. INSTALLATION OF RIGID NON-METALLIC CONDUIT SHALL COMPLY WITH ARTICLE 352 OF THE NATIONAL ELECTRICAL CODE (NFPA 70) AND THESE SPECIFICATIONS.

C. PROVIDE A CONTINUOUS, INSULATED, GROUNDING CONDUCTOR IN EVERY RIGID, NON-METALLIC RACEWAY EVEN IF NOT SHOWN ON THE DRAWINGS. THE GROUNDING CONDUCTOR SHALL BE CONNECTED TO GROUND AT EACH END OF THE RACEWAY IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE (NFPA 70).

D. WHERE RIGID NON-METALLIC CONDUIT TRANSITIONS TO METALLIC CONDUIT, THE LOCATION OF THE TRANSITION SHALL BE UNDERGROUND.

E. NO PVC CONDUIT SHALL BE RUN EXPOSED, OR ABOVE GRADE.

VII. WIRE AND CABLE 600 VOLT:

A. CONDUCTORS SHALL HAVE CURRENT CARRYING CAPACITIES AS PER NEC AND WITH 600 VOLT INSULATION. #12 AVERAGE MINIMUM PULL FOR 20 AMP CIRCUITS AND #14 FOR 15 AMP CIRCUITS EXCEPT FOR CONTROLS, AND FIXTURE WIRE. CONDUCTORS SHALL BE COPPER.

B. #12 AND #10 SHALL BE SOLID, TYPE THW/THWN INSULATION.

C. #8 AND LARGER, AND ANY SIZE TO MOTORS SHALL BE STRANDED TYPE THW.

D. SHALL BE MADE WITH T161 TOOL OR W12000 TOOL, IDEAL SUPER-NUTS (NOT WIRE NUTS), IDEAL BUILT-IN NUTS, OR BUCHANAN ELEC. PRY SHALL BE 6 OR SERIES 2000 PRESS. SURE CONNECTORS COMPLETE WITH NYLON SNAP-ON INSULATORS AND INSTALLED WITH C24 PRESSURE TOOL.

E. ALL JOINTS AND SPLICES IN WIRE SHALL BE MADE WITH APPROVED SOLDERLESS CONNECTORS, AND COVERED SO THAT INSULATION IS OWNER APPROVED EQUAL TO CONDUCTOR INSULATION. SPLICES SHALL NOT BE PERMITTED IN CONTROL, SECURITY, FIRE ALARM, TELEVISION OR COMMUNICATIONS SYSTEMS, OR WHERE OTHERWISE NOTED. SPLICING OF WIRE OR CABLES WILL NOT BE ALLOWED BELOW GRADE, INCLUDING IN BOXES BELOW GRADE.

F. BOTH CONDUCTORS AND CONDUITS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET.

G. IN INSTALLING THE MAIN ELECTRICAL SERVICE, ADDITIONAL SLACK CONDUCTORS SHALL BE PROVIDED AND TERMINATED AS REQUIRED BY ELECTRIC UTILITY FOR CONNECTION TO THEIR EQUIPMENT. FIELD COORDINATE WITH UTILITY PRIOR TO INSTALLING CONDUCTORS.

H. IN INSTALLING PARALLEL CONDUCTORS IT IS MANDATORY THAT ALL CONDUCTORS MAKING UP THE FEEDER BE EXACTLY THE SAME LENGTH, THE SAME SIZE AND THE SAME TYPE OF CONDUCTOR WITH THE SAME INSULATION. FURTHER, EACH GROUP OF CONDUCTORS MAKING UP A PHASE OR NEUTRAL MUST BE BONDED AT BOTH ENDS IN AN APPROVED MANNER.

I. CONDUCTOR SIZES INDICATED ON CIRCUIT HOMERUNS OR IN PANELBOARD SCHEDULES SHALL BE INSTALLED OVER THE ENTIRE LENGTH OF THE CIRCUIT UNLESS NOTED OTHERWISE ON THE DRAWINGS.

J. CONDUCTORS SHALL BE CONTINUOUS AND UNSPLICED WHERE INSTALLED IN CONDUIT. SPLICES SHALL OCCUR ONLY WITHIN WIRING TROUBLES, WIREWAYS, JUNCTION BOXES, OUTLET BOXES, OR EQUIPMENT ENCLOSURES WHERE SUFFICIENT ADDITIONAL ROOM IS PROVIDED FOR ALL SPLICES.

K. EACH BRANCH CIRCUIT AND FEEDER CONDUCTOR SHALL BE COLOR CODED. FOR CONDUCTOR SIZES THRU NO. 6 AWG, THE INSULATION SHALL BE OF THE COLOR AS INDICATED BELOW. COLOR CODED PHASE TAPE MAY BE APPLIED COMPLETELY AROUND THE CONDUCTOR INSULATION WITHIN 8" OF EACH END OF THE CONDUCTOR AND IN EACH PULL OR JUNCTION BOX OR WHENEVER CONDUCTORS ARE PHYSICALLY EXPOSED TO VIEW. GROUNDING CONDUCTORS AND GROUNDING CONDUCTORS SHALL HAVE INSULATION COLOR AS INDICATED FOR SIZES THROUGH #6 AWG. 120/208V, 3 PHASE, 4W.

- PHASE A: COLOR: BLACK
PHASE B: COLOR: RED
PHASE C: COLOR: BLUE
NEUTRAL: COLOR: WHITE
GROUND: COLOR: GREEN

VIII. GROUNDING:

A. THIS SECTION DEALS WITH THE GROUNDING OF SERVICE EQUIPMENT, TRANSFORMERS, NON-CURRENT CARRYING CONDUCTIVE SURFACES OF EQUIPMENT, METAL BUILDING, STRUCTURES AND OTHER EQUIPMENT.

B. ALL GROUNDING CONNECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL LOCAL CODES. AND THE CONTRACTOR SHALL BE CONSIDERED MINIMUM REQUIREMENTS AND THE INSTALLATION OF THE GROUNDING SYSTEM SHALL INSURE FREEDOM FROM DANGEROUS SHOCK EXPOSURE AND SHALL PROVIDE A LOW IMPEDANCE GROUND FAULT PATH TO PERMIT OPERATION OF OVERCURRENT AND GROUND FAULT PROTECTIVE DEVICES.

C. ALL SERVICE AND EQUIPMENT GROUNDING CONDUCTORS, AND BONDING JUMPERS SHALL BE INSULATED COPPER, TYPE THW, THWN, OR THW CONDUCTORS (UNLESS NOTED OTHERWISE) AND SHALL BE SIZED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF ARTICLES 250 AND 517 OF THE NATIONAL ELECTRICAL CODE. GROUNDING CONDUCTORS #8 AWG AND SMALLER SHALL HAVE A GREEN COLOR INSULATION. ALL GROUNDING CONDUCTORS #4 AWG AND LARGER SHALL BE ADEQUATELY IDENTIFIED WITH A GREEN TRACER AND/OR GREEN COLORED TAPE AT EACH END OF THE GROUNDING CONDUCTOR AND AT EACH FULFLOOR OR OTHER ACCESSIBLE LOCATION.

D. THE MAIN SERVICE GROUNDING ELECTRODE SYSTEM SHALL CONSIST OF THE FOLLOWING ITEMS BONDED TOGETHER BY THE GROUNDING ELECTRODE CONDUCTORS IN ACCORDANCE WITH NEC ARTICLE 250, PART H:

1. THE MAIN UNDERGROUND COLD WATER PIPE, IF METAL, NEC 250-81(A)
2. METAL FRAME OF BUILDING WHERE AVAILABLE, NEC 250-81(B)
3. CONCRETE ENCASED ELECTRODE, NEC 250-81(C)
4. THE BUILDING LIGHTNING PROTECTION SYSTEM.

E. THE NEUTRAL CONDUCTOR SHALL BE GROUNDED AT THE SERVICE ENTRANCE MAIN DISCONNECT, AND AT EACH SEPARATELY DERIVED SYSTEM ONLY PER NEC ARTICLE 250.

F. A #8 (MINIMUM) INSULATED COPPER CONDUCTOR INSTALLED IN 3/4" CONCEALED CONDUIT SHALL BE CONNECTED FROM THE BUILDING GROUNDING ELECTRODE SYSTEM TO EACH BUILDING TELEPHONE TERMINAL BOARD, OR TERMINAL BOARD, OR CABINETS, FIRE ALARM CONTROL CABINETS, CCTV SYSTEM CABINETS, EMS CABINETS, AND SECURITY SYSTEM CABINETS. TERMINATE ON AN APPROPRIATELY SIZED (8) TERMINAL MULTI-CONDUCTOR CONNECTION GROUNDING LUG LOCATED WITHIN CABINET OR ON TERMINAL BOARD.

IX. PANELBOARDS:

A. PANELBOARDS SHALL BE DEAD FRONT TYPE AND SHALL BE IN ACCORDANCE WITH UNDERWRITERS' LABORATORIES, INC., STANDARD FOR PANELBOARDS AND ENCLOSING CABINETS AND SO LABELED.

B. PANELBOARDS SHALL BE FACTORY ASSEMBLED WITH BRANCH BREAKERS ARRANGED AS SHOWN IN SCHEDULES. BREAKERS SHALL BE NUMBERED VERTICALLY BEGINNING TOP LEFT. BREAKER NUMBERS SHALL BE PERMANENTLY ATTACHED TO TRIM. PANEL SHALL BE MINIMUM 20" WIDE OR 16" FOR RESIDENTIAL. LOAD CENTERS, UNLESS SPECIFICALLY NOTED OTHERWISE.

C. ANY SPECIAL REQUIREMENTS ON THE DRAWINGS OR SCHEDULES, SUCH AS GROUND FAULT PROTECTION, ARC-FAULT CIRCUIT BREAKERS, INTERRUPTING CAPACITY, SHUNT TRIP TYPE CIRCUIT BREAKER, FEED THRU PANELBOARDS, ETC., SHALL SUPERSEDE THESE SPECIFICATIONS, BUT ONLY INsofar AS THAT PARTICULAR REQUIREMENT IS CONCERNED AND AS INDICATED.

D. WIRING IN PANELBOARD GUTTERS SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER. WIRING SHALL BE GROUPED INTO NEAT BUNDLES AND SECURED WITH NYLON TIE WRAPS.

E. PROVIDE TYPE WRITTEN DIRECTORIES FOR EACH PANELBOARD INDICATING THE LOAD SERVED.

X. LIGHTING FIXTURES:

A. LIGHTING FIXTURES SHALL BE FURNISHED AS SHOWN ON DRAWINGS AND IN THE LIGHTING FIXTURE SCHEDULE. IT SHALL SPECIFICALLY BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY EXACT TYPE, CEILING AND RECESSING OF ALL RECESSED FIXTURES AND TO FURNISH THE MOUNTING TRIMS AND ACCESSORIES OF THE SPECIFIED AND/OR APPROVED FIXTURES FOR THE CEILING TO BE INSTALLED. LIGHTING FIXTURES SHALL BE PROVIDED WITH JUNCTION PLATES, END CAPS, RETAINING CLIPS, PLASTER FRAMES, HOUSINGS, AND ALL OTHER ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.

B. ALL FIXTURES SHALL BE EQUIPPED WITH LAMPS UNLESS OTHERWISE NOTED. LAMPS SHALL BE INSTALLED NEAR, IMMEDIATELY PRIOR TO FINAL INSPECTION, AND SHALL NOT BE USED FOR CONSTRUCTION.

C. FIXTURE CATALOG NUMBER REPRESENTS BASIC LUMINARY SIZE, TYPE, QUALITY AND CONFIGURATION. ACCESSORIES SHALL BE FURNISHED WITH EACH UNIT AS REQUIRED FOR A COMPLETE FINISHED INSTALLATION. BASIC ACCESSORIES SHALL INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

1. JOINTING PLATES, END CAPS, RETAINING CLIPS, ETC.
2. TRIMS FOR RECESSED FIXTURES.
3. FIXTURE STAYS AND CANOPES FINISHED TO MATCH FIXTURES.
4. SPECIAL MOUNTING BRACKETS, TENDONS, SLIP FITTINGS, CONCRETE BASES, POLES, ANCHOR BOLTS, JUNCTION BOXES, AND STANCHIONS FOR ALL EXTERIOR LIGHTING FIXTURES. PROVIDE ALL WEATHERPROOFING FOR ALL LIGHTING FIXTURES TO BE INSTALLED IN EXTERIOR LOCATIONS.

D. STRUCTURAL SUPPORT OF ALL FIXTURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

E. THE SYSTEM GROUNDING CONDUCTOR SHALL BE SECURED TO EACH FIXTURE BODY BY MEANS OF A BONDING SCREW.

F. OWNER/DEVELOPER WILL HAVE RIGHT TO RELOCATE LIGHTING FIXTURES OR LIGHTING SWITCHES WITHIN 72" OF LOCATION SHOWN ON FIRST WALK-THROUGH AT NO ADDITIONAL EXPENSE.

G. COORDINATE THE FIRST WALK-THROUGH PRIOR TO THE INSTALLATION OF THE WIRING.

XI. FIRE ALARM SYSTEMS

A. THIS SECTION INCLUDES AUTOMATIC ADDRESSABLE VOICE EVACUATION FIRE ALARM SYSTEMS, INCLUDING FIRE ALARM CONTROL PANEL, AND REMOTE ANNUNCIATOR, MANUAL PULL STATIONS, HEAT AND SMOKE DETECTORS, FIRE ALARM AUDIO, VISUAL SIGNAL EQUIPMENT, CONTROL, AND SURGE PROTECTION DEVICES. COORDINATE ALL WIRING AND DEVICE INTERFACES WITH OWNER'S REPRESENTATIVE. THE FIRE ALARM SYSTEM SHALL MEET THE LATEST ADOPTED EDITION OF NFPA 72. ALL LOCAL AND STATE AMENDMENTS AND FEDERAL ADA REQUIREMENTS. ALL DEVICES SHALL BE WHITE IN COLOR WITH RED LETTERING.

B. GENERAL: COMPLETE, ZONED, NONCODED, ADDRESSABLE, MICROPROCESSOR-BASED FIRE DETECTION ALARM SYSTEM WITH MANUAL AND AUTOMATIC ALARM INITIATION SIGNALS FROM A SUPERVISED FIRE ALARM SOUND DISTRIBUTION SYSTEM. DEVICES LOCATED OUTDOORS SHALL BE SPECIFICALLY DESIGNED FOR EXTERIOR SERVICE. PROVIDE BATTERY BACK-UP BASED UPON TOTAL LOAD PER NFPA 72. ALARM SHALL ACHIEVE A MINIMUM OF 80 DB THROUGHOUT OCCUPABLE SPACES AND MEET ADA REQUIREMENTS.

C. TRANSMISSION TO REMOTE CENTRAL STATION: PROVIDE WIRING TO AUTOMATICALLY ROUTE AN ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO THE GRAND SANDESTIN CENTRAL STATION SERVICE TRANSMITTER LOCATED IN MAIN FIRE ALARM CONTROL PANEL USING LISTED AND APPROVED EQUIPMENT. PROVIDE ALL NECESSARY WIRING CONNECTION BY THIS CONTRACTOR.

D. GENERAL ALARM: A SYSTEM GENERAL ALARM INCLUDES:

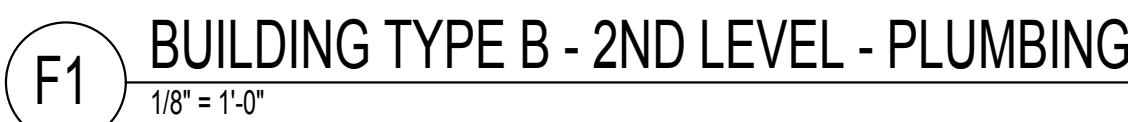
1. INDICATING THE GENERAL ALARM CONDITION AT THE FACP AND THE INTEGRAL ANNUNCIATOR.
2. IDENTIFYING THE DEVICE THAT IS THE SOURCE OF THE ALARM AT THE FACP AND THE ANNUNCIATOR.
3. INITIATING AUDIBLE AND VISIBLE ALARM SIGNALS THROUGHOUT THE BUILDING.
4. STOPPING HVAC SUPPLY AND RETURN FANS.
5. INITIATING TRANSMISSION OF ALARM SIGNAL TO REMOTE CENTRAL STATION.
6. MANUAL STATION ALARM OPERATION INITIATES A GENERAL ALARM.
7. SMOKE OR HEAT DETECTION INITIATES A GENERAL ALARM.

E. INSTALLER QUALIFICATIONS: A CERTIFIED FACTORY-TRAINED TECHNICIAN IS TO PERFORM THE WORK OF THIS SECTION, MAKING UP ALL TERMINAL CABINETS, INSTALLING ALL SURGE SUPPRESSORS, AND INCLUDING LANDING AND TESTING EACH WIRE, MOUNTING AND CONNECTING ALL DEVICES. PROGRAMMING THE MAIN FACP, TROUBLE SHOOTING AND CERTIFYING THE FINAL SYSTEM. THE CONTRACTOR SHALL BE CURRENTLY LICENSED BY THE STATE FOR FIRE ALARM WORK, AND SHALL BE A CERTIFIED FACTORY-TRAINED TECHNICIAN. CONTRACTOR IS RESPONSIBLE FOR OBTAINING NECESSARY FIRE ALARM PERMITS FROM AUTHORITY HAVING JURISDICTION.

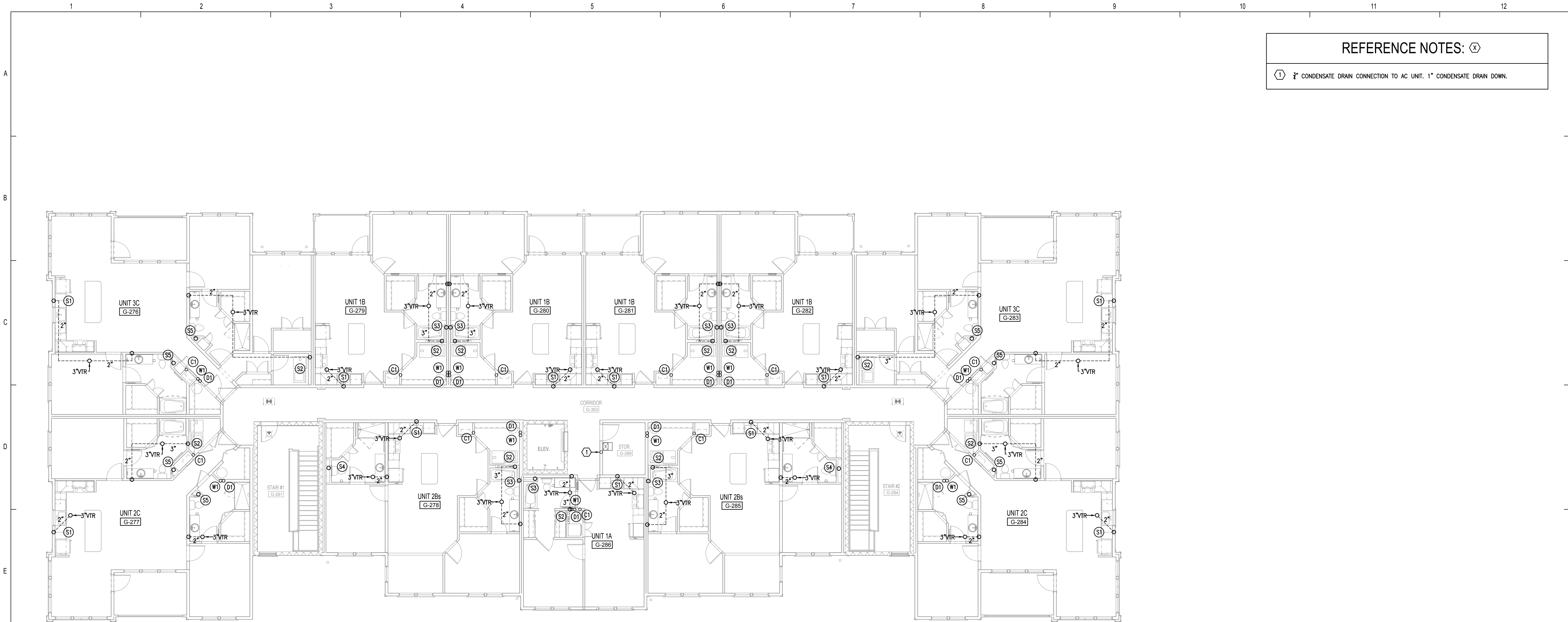
F. FIRE ALARM DEVICES AND EQUIPMENT TO BE INSTALLED OUTDOORS IN EXTERIOR LOCATIONS SHALL BE SPECIFICALLY DESIGNED AND U.L. LISTED AS WEATHER AND WATERPROOF. PROVIDE WEATHERPROOF NEOPRENE GASKETS BETWEEN WALL MOUNTING SURFACE AND FIRE ALARM DEVICE FOR ALL DEVICES MOUNTED OUTDOORS.

G. AVAILABLE MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS.

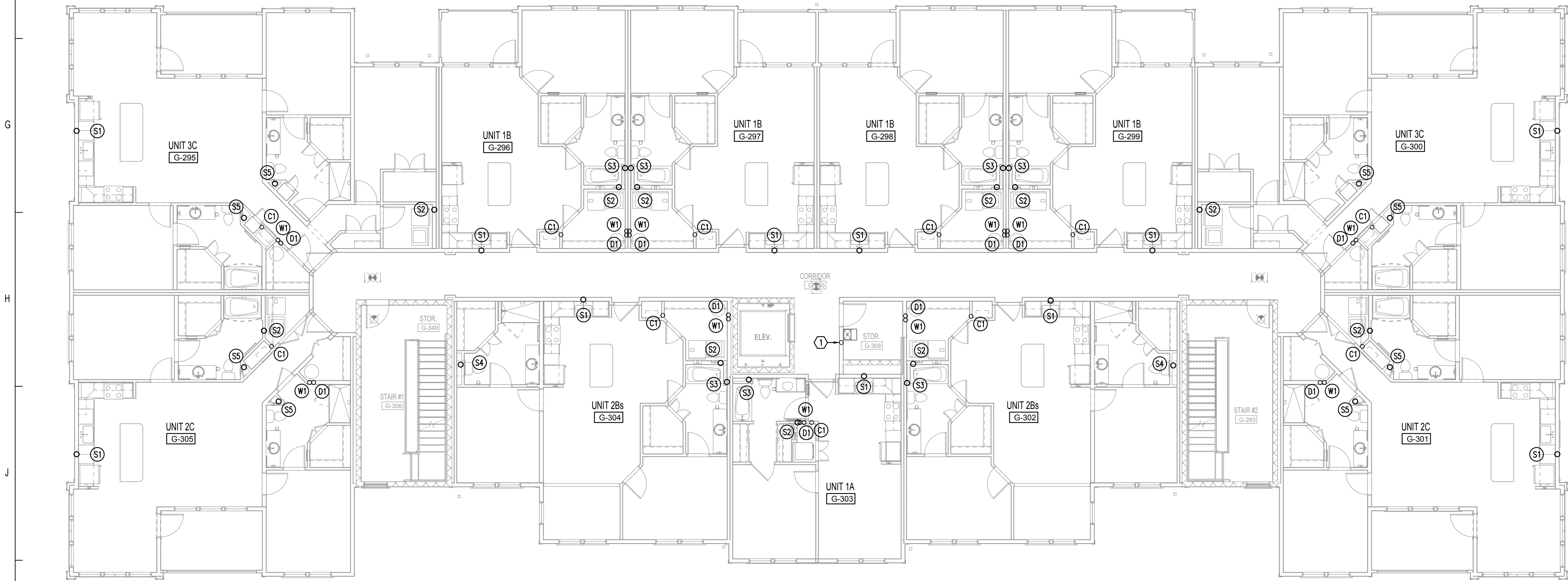
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<div> <div>THE MADISON</div> <div>HUNTSVILLE, AL</div> <div>BUILDING TYPE B</div> <div>GROUND & 2ND LEVEL</div> <div>PLUMBING</div> <div>P2.04</div> </div>	Drawn:	MUR/SME
	Checked:	BLS/AJE
	Approved:	BLS/AJE
	Date:	04/15/2022
	Project #:	5722



F1 BUILDING TYPE B - 4TH LEVEL - PLUMBING
1/8" = 1'-0"



K1 BUILDING TYPE B - 3RD LEVEL - PLUMBING
1/8" = 1'-0"

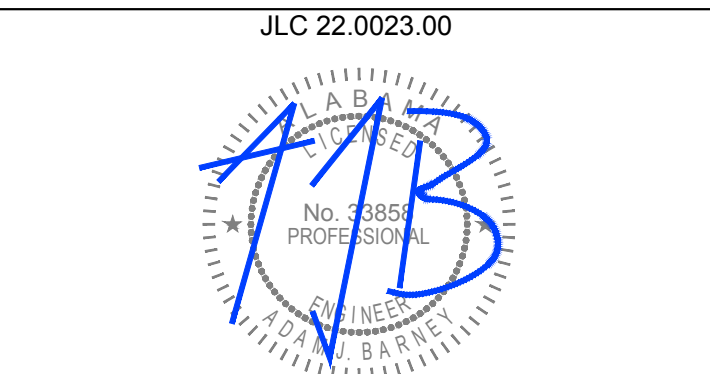


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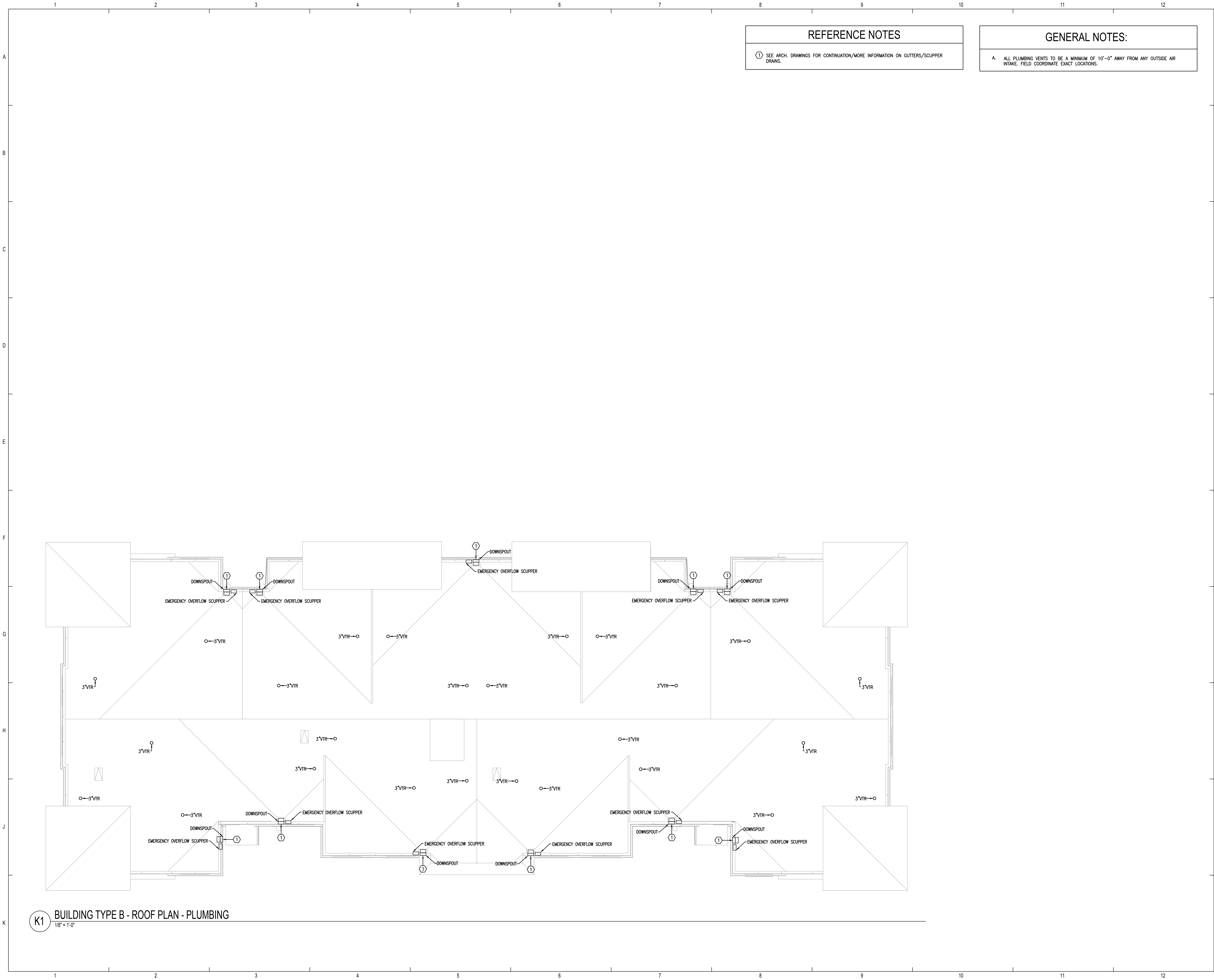
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THE MADISON HUNTSVILLE, AL	Drawn: MRSMB Checked: BLSA/B Appoval: BLSA/B Date: 04/15/2022 Project #: 5722
BUILDING TYPE B 3RD & 4TH LEVEL PLUMBING	
P2.05	




REFERENCE NOTES

① SEE ARCH. DRAWINGS FOR CONTINUATION/MORE INFORMATION ON GUTTERS/SCUPPER DRAINS.


GENERAL NOTES:

A. ALL PLUMBING VENTS TO BE A MINIMUM OF 10'-0" AWAY FROM ANY OUTSIDE AIR INTAKE. FIELD COORDINATE EXACT LOCATIONS.



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1	04/15/22	Permit Submission

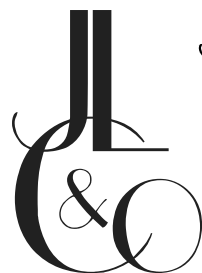
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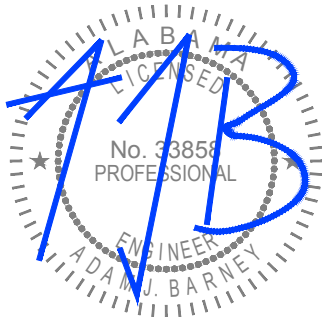
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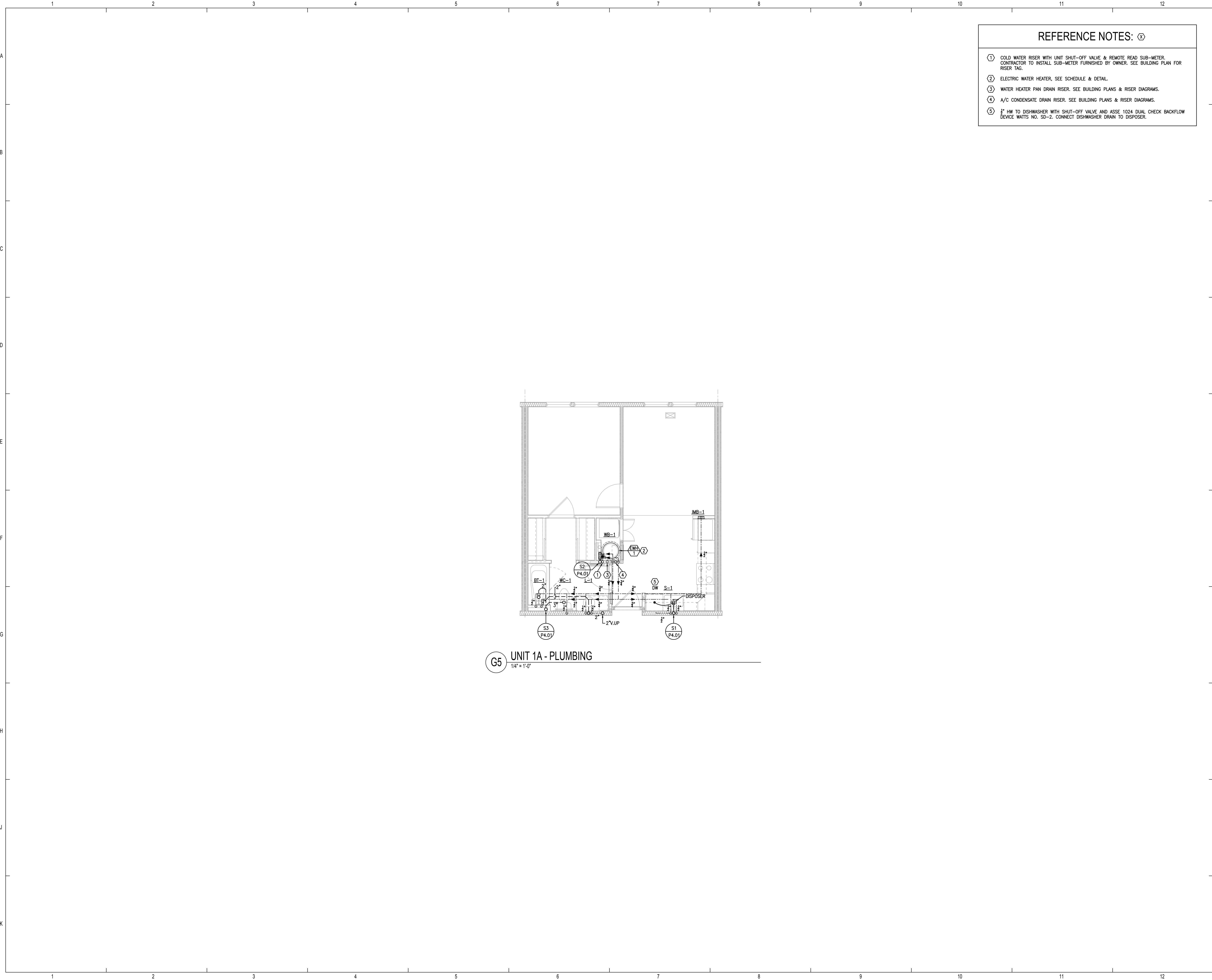
JLC 22.0023.00



THE MADISON <small>HUNTSVILLE, AL</small>	Drawn:	MJS/MB
	Checked:	BLA/AB
	Apprent:	BLA/AB
	Date:	04/15/2022
	Project #:	572

BUILDING TYPE B
ROOF PLAN
PLUMBING
P2.06

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REFERENCE NOTES: ⓧ

- ① COLD WATER RISER WITH UNIT SHUT-OFF VALVE & REMOTE READ SUB-METER. CONTRACTOR TO INSTALL SUB-METER FURNISHED BY OWNER. SEE BUILDING PLAN FOR RISER TAG.
- ② ELECTRIC WATER HEATER, SEE SCHEDULE & DETAIL.
- ③ WATER HEATER PAN DRAIN RISER. SEE BUILDING PLANS & RISER DIAGRAMS.
- ④ A/C CONDENSATE DRAIN RISER. SEE BUILDING PLANS & RISER DIAGRAMS.
- ⑤ 3" HW TO DISHWASHER WITH SHUT-OFF VALVE AND ASSE 1024 DUAL CHECK BACKFLOW DEVICE WAITS NO. SD-2. CONNECT DISHWASHER DRAIN TO DISPOSER.



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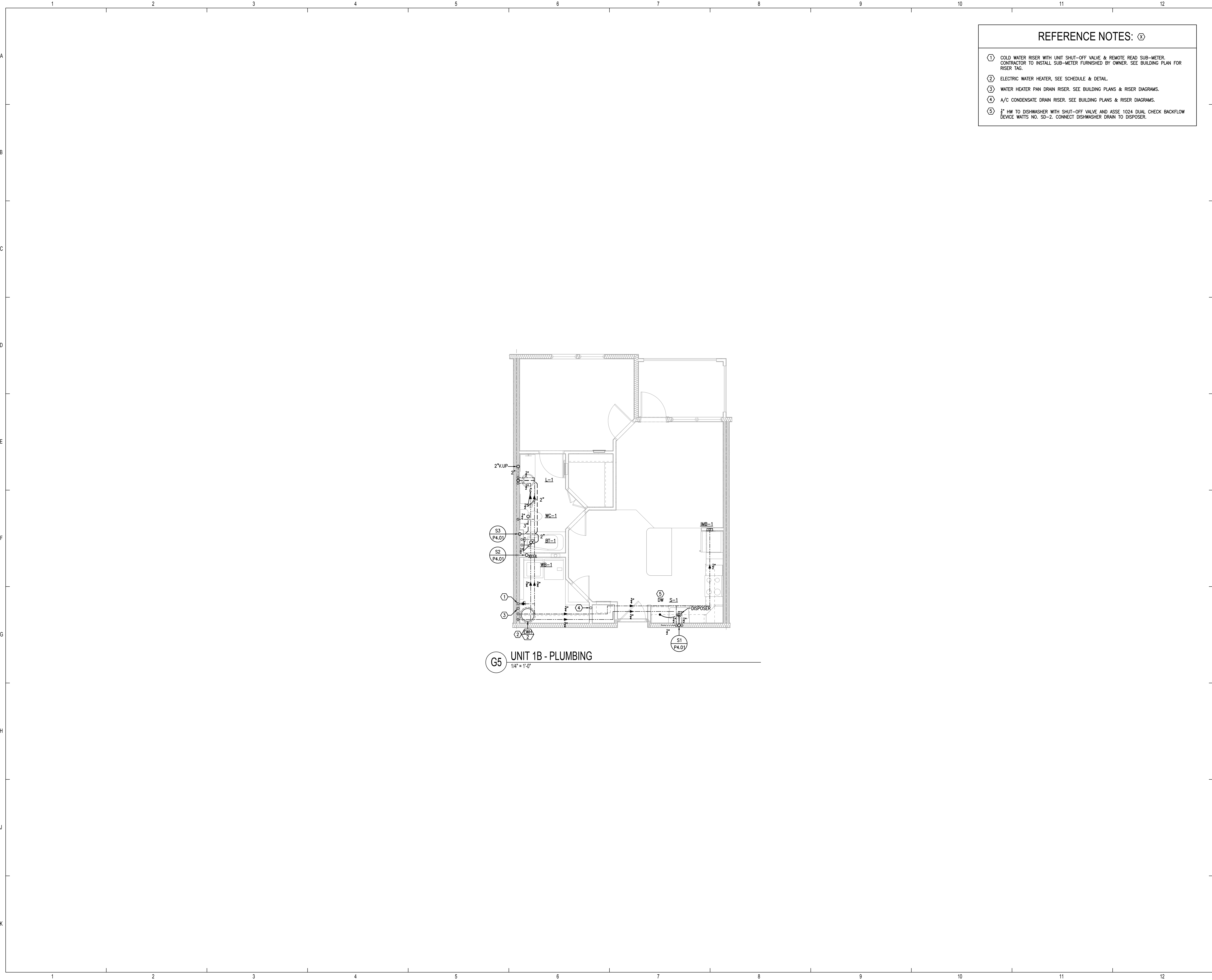
THE MADISON

HUNTSVILLE, AL

ENLARGED UNIT PLANS
PLUMBING

P3.01

Drawn:	MJRSMB
Checked:	BLSAJB
Appoval:	BLSAJB
Date:	04/15/2022
Project #:	5722



REFERENCE NOTES: ⓧ

- ① COLD WATER RISER WITH UNIT SHUT-OFF VALVE & REMOTE READ SUB-METER. CONTRACTOR TO INSTALL SUB-METER FURNISHED BY OWNER. SEE BUILDING PLAN FOR RISER TAG.
- ② ELECTRIC WATER HEATER, SEE SCHEDULE & DETAIL.
- ③ WATER HEATER PAN DRAIN RISER. SEE BUILDING PLANS & RISER DIAGRAMS.
- ④ A/C CONDENSATE DRAIN RISER. SEE BUILDING PLANS & RISER DIAGRAMS.
- ⑤ 3" HW TO DISHWASHER WITH SHUT-OFF VALVE AND ASSE 1024 DUAL CHECK BACKFLOW DEVICE. WATTS NO. SD-2. CONNECT DISHWASHER DRAIN TO DISPOSER.



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No.	Date	Description
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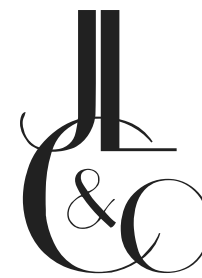
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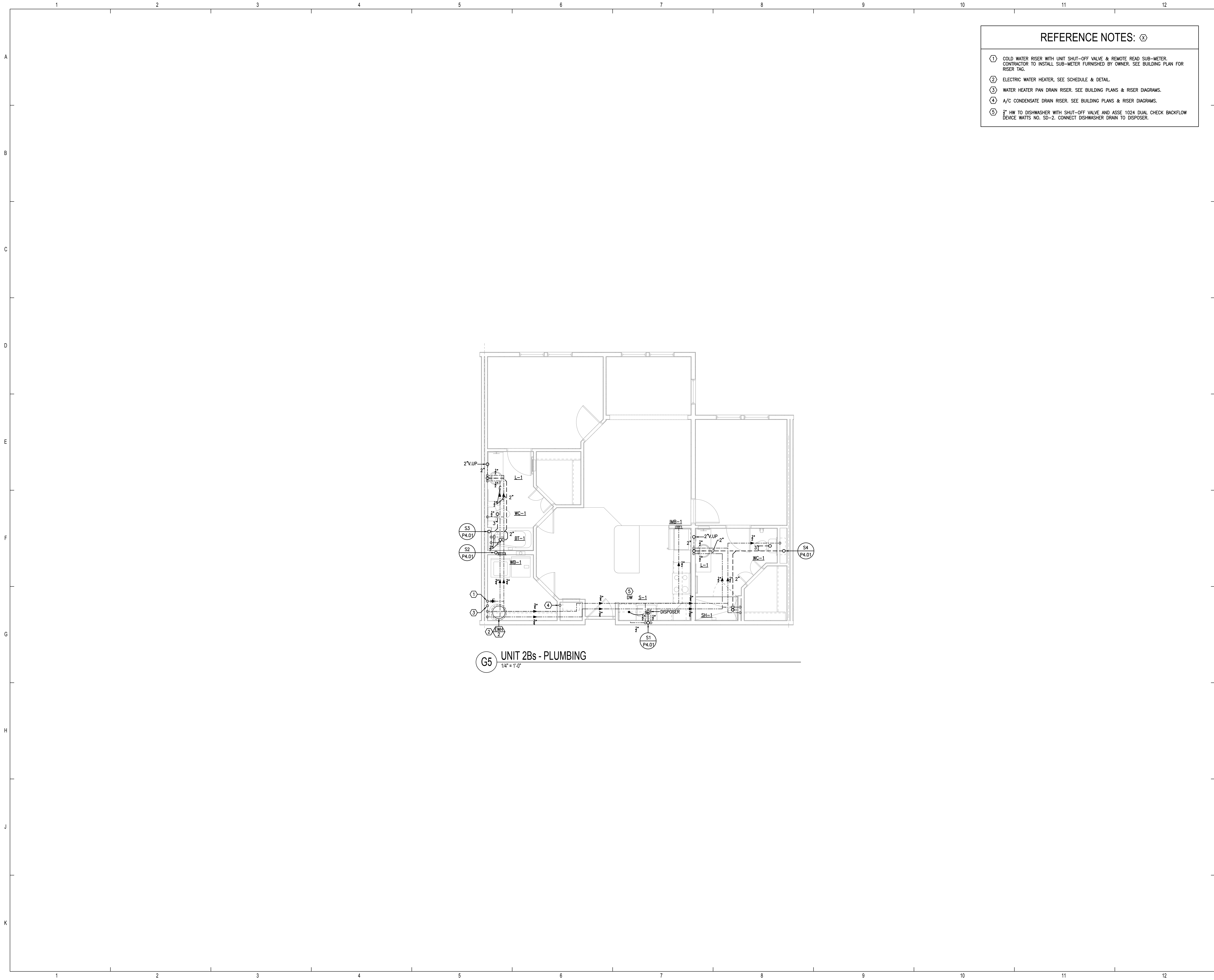
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HUNTSVILLE, AL

Drawn:	MJRSMB
Checked:	BLSAJB
Approved:	BLSAJB
Date:	04/15/2022
Project #:	5722

ENLARGED UNIT PLANS
PLUMBING

P3.02



REFERENCE NOTES: ⓧ

- ① COLD WATER RISER WITH UNIT SHUT-OFF VALVE & REMOTE READ SUB-METER. CONTRACTOR TO INSTALL SUB-METER FURNISHED BY OWNER. SEE BUILDING PLAN FOR RISER TAG.
- ② ELECTRIC WATER HEATER, SEE SCHEDULE & DETAIL.
- ③ WATER HEATER PAN DRAIN RISER. SEE BUILDING PLANS & RISER DIAGRAMS.
- ④ A/C CONDENSATE DRAIN RISER. SEE BUILDING PLANS & RISER DIAGRAMS.
- ⑤ 1/2" HW TO DISHWASHER WITH SHUT-OFF VALVE AND ASSE 1024 DUAL CHECK BACKFLOW DEVICE WATTS NO. SD-2. CONNECT DISHWASHER DRAIN TO DISPOSER.

G5 UNIT 2Bs - PLUMBING
1/4" = 1'-0"



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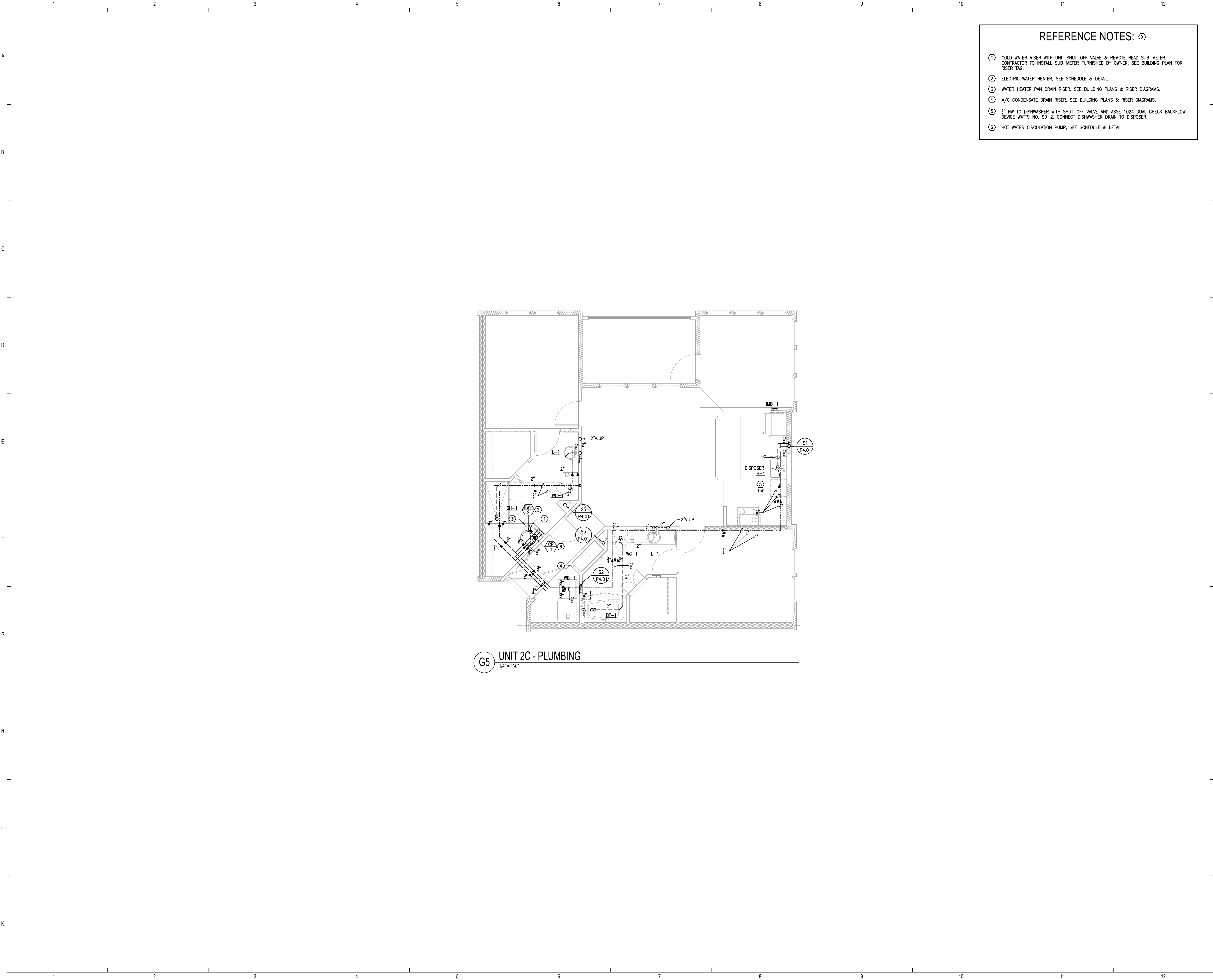
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THE MADISON	Drawn: MJS/MB
HUNTSVILLE, AL	Checked: BLSA/B
	Approved: BLSA/B
	Date: 04/15/2022
	Project #: 5722

ENLARGED UNIT PLANS
PLUMBING


P3.05



G5 UNIT 2C - PLUMBING
1/4" = 1'-0"

REFERENCE NOTES: ⓧ


- ① COLD WATER RISER WITH UNIT SHUT-OFF VALVE & REMOTE READ SUB-METER. CONTRACTOR TO INSTALL SUB-METER FURNISHED BY OWNER. SEE BUILDING PLAN FOR RISER TAG.
- ② ELECTRIC WATER HEATER, SEE SCHEDULE & DETAIL.
- ③ WATER HEATER PAN DRAIN RISER. SEE BUILDING PLANS & RISER DIAGRAMS.
- ④ A/C CONDENSATE DRAIN RISER. SEE BUILDING PLANS & RISER DIAGRAMS.
- ⑤ 1/2" HW TO DISHWASHER WITH SHUT-OFF VALVE AND ASSE 1024 DUAL CHECK BACKFLOW DEVICE WAITS NO. SD-2. CONNECT DISHWASHER DRAIN TO DISPOSER.
- ⑥ HOT WATER CIRCULATION PUMP, SEE SCHEDULE & DETAIL.



ALABAMA DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

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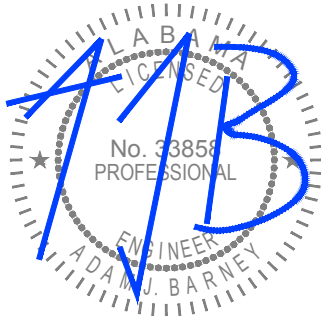
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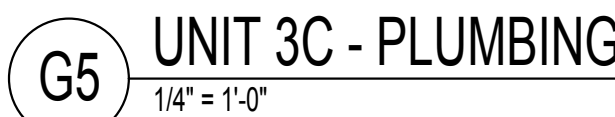
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PROFESSIONAL
J. LAWRENCE
ALTAHONTE SPRINGS, FLORIDA

THE MADISON		HUNTSVILLE, AL	
Drawn	MJRSMB	Date	04/15/2022
Checked	BLSAJB	Project #	5722
Approved	BLSAJB		

**ENLARGED UNIT PLANS
PLUMBING**

P3.06

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G5

UNIT 3C - PLUMBING

$$\frac{1}{4}'' = 1'-0$$

- ① COLD WATER RISER WITH UNIT SHUT-OFF VALVE & REMOTE READ SUB-METER. CONTRACTOR TO INSTALL SUB-METER FURNISHED BY OWNER. SEE BUILDING PLAN FOR RISER TAG.
- ② ELECTRIC WATER HEATER, SEE SCHEDULE & DETAIL.
- ③ WATER HEATER PAN DRAIN RISER, SEE BUILDING PLANS & RISER DIAGRAMS.
- ④ A/C CONDENSATE DRAIN RISER, SEE BUILDING PLANS & RISER DIAGRAMS.
- ⑤ ½" HWI TO DISHWASHER WITH SHUT-OFF VALVE AND ASSE 1024 DUAL CHECK BACKFLOW DEVICE WAITS NO. SD-2. CONNECT DISHWASHER DRAIN TO DISPOSER.
- ⑥ HOT WATER CIRCULATION PUMP, SEE SCHEDULE & DETAIL.



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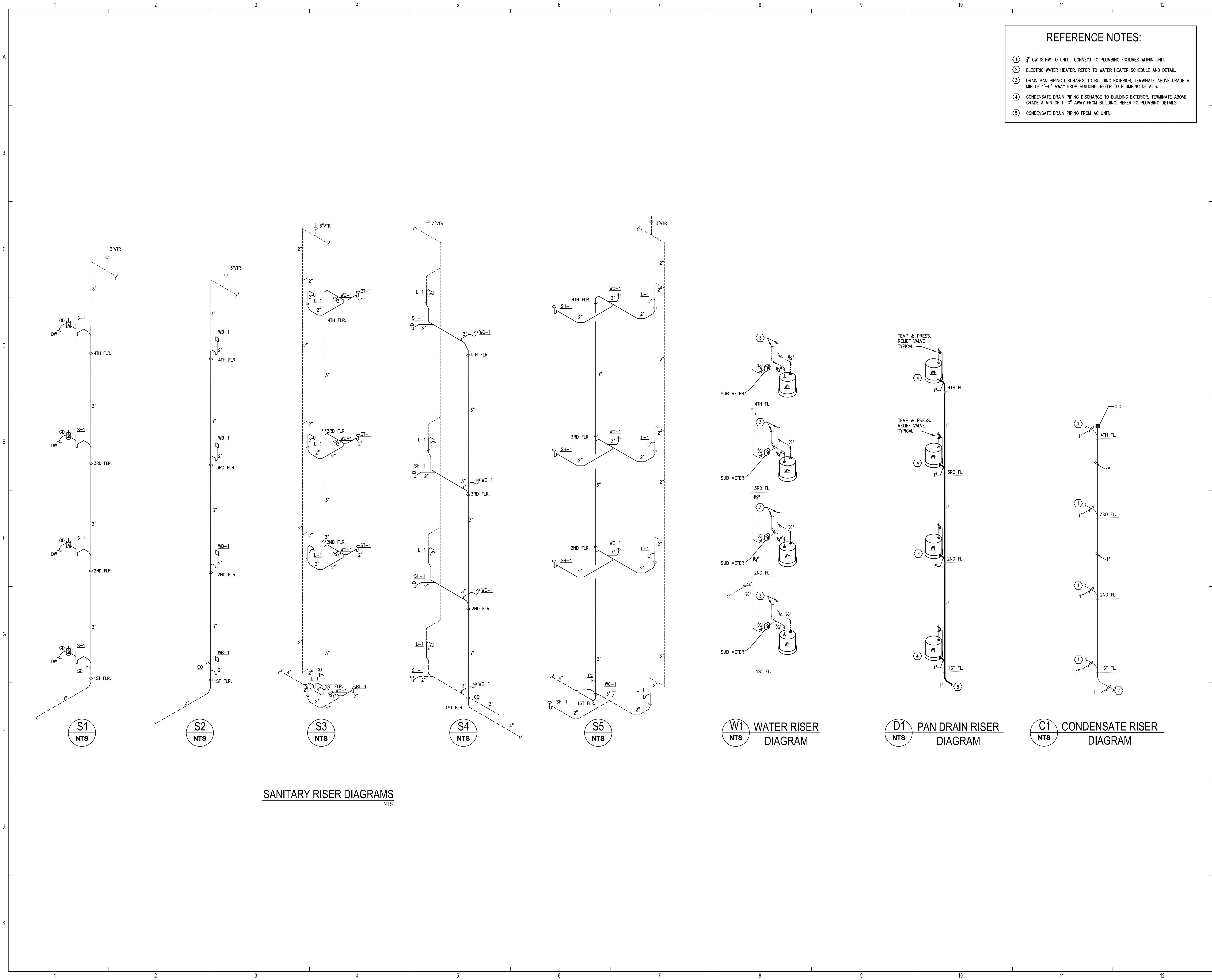


HUNTSVILLE, AL


ENLARGED UNIT PLANS PLUMBING

P3.07

Drawn:	MJR/SME
Checked:	BLS/AJB
Approval:	BLS/AJB
Date:	04/15/2022
Project #:	5722




- REFERENCE NOTES:
- ① 1/2" CW & HW TO UNIT. CONNECT TO PLUMBING FIXTURES WITHIN UNIT.
 - ② ELECTRIC WATER HEATER. REFER TO WATER HEATER SCHEDULE AND DETAIL.
 - ③ DRAIN PAN PIPING DISCHARGE TO BUILDING EXTERIOR, TERMINATE ABOVE GRADE A MIN OF 1'-0" AWAY FROM BUILDING. REFER TO PLUMBING DETAILS.
 - ④ CONDENSATE DRAIN PIPING DISCHARGE TO BUILDING EXTERIOR, TERMINATE ABOVE GRADE A MIN OF 1'-0" AWAY FROM BUILDING. REFER TO PLUMBING DETAILS.
 - ⑤ CONDENSATE DRAIN PIPING FROM AC UNIT.



ALABAMA DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

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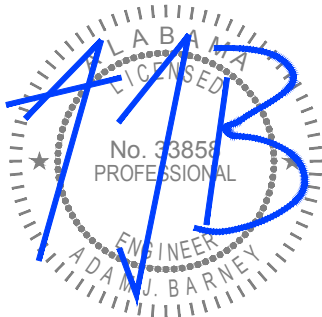
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THE MADISON	Drawn	MJRSMB
	Checked	BLSAJB
	Approved	BLSAJB
	Date	04/15/2022

HUNTSVILLE, AL

Project # 5722

**RISER DIAGRAMS
PLUMBING**

P4.01

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GENERAL NOTES:

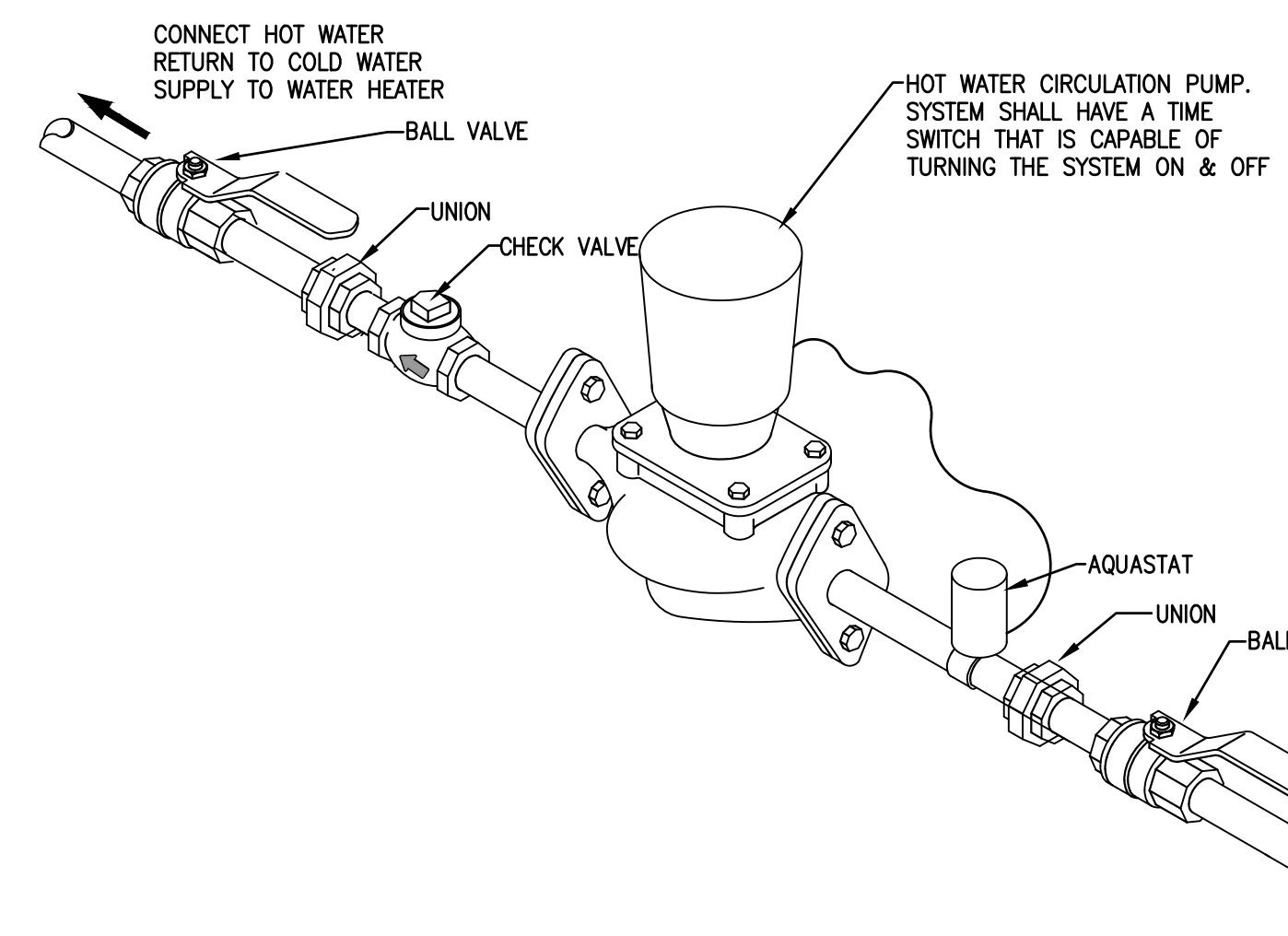
- ALL PLUMBING FIXTURES MUST BE REVIEWED AND APPROVED BY THE ARCHITECT/OWNER/BRAND PRIOR TO ORDERING.
- CONTRACTOR TO VERIFY ALL BATHTUB AND SHOWER SIZES, INCLUDING DRAIN LOCATIONS, WITH ARCHITECT PRIOR TO ORDERING.
- CONTRACTOR TO VERIFY LAVATORY AND SINK SIZES ARE COORDINATED WITH COUNTERTOPS BEING INSTALLED PRIOR TO ORDERING.
- CONTRACTOR TO VERIFY ALL PLUMBING EQUIPMENT SELECTED FITS WITHIN DESIGNATED SPACE SHOWN ON PLUMBING PLANS AND PROVIDES REQUIRED CLEARANCE AS LISTED BY MANUFACTURER.
- CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING.

PLUMBING SPECIALTIES SCHEDULE - APARTMENT

MARK	FIXTURE	WASTE	TRAP	VENT	COLD WATER	HOT WATER	MANUFACTURER /MODEL #	DESCRIPTION
WB-1	WASHER BOX	-	-	-	-	-	SIOUX CHIEF STANDARD: 696-2313CF FIRE RATED: 696R2313CF	ABS BOX 5-1/2" HIGH x 4" WIDE. 1/2" O.D. COMPRESSION ANGLE VALVE. SUPPLY CONNECTION SIZE SHALL BE 1/2" O.D. PROVIDE WATER HAMMER SHOCK ARRESTORS AND FIRE RATED BOX WHERE REQUIRED.
IMB-1	ICE MAKER BOX	-	-	-	-	-	SIOUX CHIEF STANDARD: 696-G1010CF FIRE RATED: 696RG1010CF	ABS BOX 5-1/2" HIGH x 4" WIDE. 1/2" SUPPLY CONNECTION. PROVIDE WATER HAMMER SHOCK ARRESTORS AND FIRE RATED BOX WHERE REQUIRED.
SA	SHOCK ARRESTOR	-	-	-	-	-	SIOUX CHIEF 650 SERIES	SIZE PER MANUFACTURER'S RECOMMENDATIONS. PDI CERTIFIED. WHA-1: SIZE "A", WHA-2: SIZE "B", SIZE PER PDI METHOD.
WCO-1	WALL CLEANOUT	SEE DWG.	-	-	-	-	ZURN Z1446	CLEANOUT TEE, DURA-COATED CAST IRON BODY, GAS AND WATERTIGHT ABS TAPERED THREAD PLUG, AND ROUND, SMOOTH STAINLESS STEEL WALL ACCESS COVER WITH SECURING SCREW.
ECO-1	EXTERIOR CLEANOUT	SEE DWG.	-	-	-	-	ZURN Z51400-VP	"LEVEL-TROL" ADJUSTABLE FLOOR CLEANOUT, DURA-COATED CAST IRON BODY WITH GAS AND WATERTIGHT ABS TAPERED THREAD PLUG AND ROUND SECURED STAINLESS STEEL ADJUSTABLE TO FINISHED FLOOR WITH VANDALPROOF SCREWS.
FCO-1	FLOOR CLEANOUT	SEE DWG.	-	-	-	-	ZURN Z51400-VP	"LEVEL-TROL" ADJUSTABLE FLOOR CLEANOUT, DURA-COATED CAST IRON BODY WITH GAS AND WATERTIGHT ABS TAPERED THREAD PLUG AND ROUND SECURED STAINLESS STEEL ADJUSTABLE TO FINISHED FLOOR WITH VANDALPROOF SCREWS.
HB-1	HOSE BIBB - BUILDING FREEZE PROOF	-	-	-	-	-	ZURN Z1320XL WITH BOX	FREEZE PROOF ANTI-SIPHON WALL FAUCET WITH EXTERNAL VACUUM BREAKER, ALL BRONZE INTERIOR COMPONENTS, VANDAL-RESISTANT OPERATING STEM, ROUGH BRONZE EXTERIOR AND 1/2" MALE HOSE CONNECTION, LOOSE KEY HANDLE AND 3/8" DEEP BOX.
FD-1	FLOOR DRAIN	SEE DWG.	-	-	-	-	ZURN ZM415S-HD-P	DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS AND "TYPE S" POLISHED NICKEL BRONZE, SQUARE HEAVY-DUTY STRAINER AND 1/2" TRAP PRIMER CONNECTION.
RD-1	ROOF DRAIN - PRIMARY & SECONDARY COMBO	SEE DWG.	-	-	-	-	ZURN ZC163	15" DIAMETER PRIMARY & SECONDARY COMBO ROOF DRAIN. DURA-COATED CAST IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD, DOUBLE TOP SET DECK PLATE AND LOW SILHOUETTE GALVANIZED CAST IRON DOME. SEE PLANS FOR PIPE SIZING.
RD-1	ROOF DRAIN - PRIMARY SINGLE DRAIN	SEE DWG.	-	-	-	-	ZURN ZC100-C-D	15" DIAMETER PRIMARY ROOF DRAIN. DURA-COATED CAST IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD AND LOW SILHOUETTE GALVANIZED CAST IRON DOME. SEE PLANS FOR PIPE SIZING.
RPBP-1	REDUCED PRESSURE BACKFLOW PREVENTER	-	-	-	SEE DWG.	-	WATTS LF009	LEAD FREE REDUCED PRESSURE ZONE ASSEMBLY WITH 2 ISOLATION VALVES AND 2 BRONZE TEST COCKS. 1/2"-2" IN SIZE.
DSN-1	DOWNSPOUT NOZZLE	-	-	-	SEE DWG.	-	JR SMITH 1770T	CAST BRONZE NOZZLE AND FLANGE.
DSN-2	DOWNSPOUT NOZZLE	-	-	-	SEE DWG.	-	JR SMITH 1775	FABRICATED TYPE 304 STAINLESS STEEL DOWNSPOUT COVER WITH HINGED PERFORATED COVER.
TPV-1	TRAP PRIMER VALVE	-	-	-	1/2"	-	PRECISION PLUMBING PRODUCTS PR-500	PROVIDE FULLY ACCESSIBLE SHUT OFF VALVE TO EACH PRIMER VALVE.
TMV-1	MIXING VALVE	-	-	-	1/2"	1/2"	SYMMONS 7-225-CK	THERMOSTATIC CONTROLLER, CHECK STOPS, REMOVABLE CARTRIDGE WITH STRAINER, S.S. PISTON, THERMAL MOTOR, MIN FLOW RATE .5 GPM.
BWV-1	BACKWATER VALVE	SEE DWG.	-	-	-	-	ZURN Z1090	DURA-COATED CAST IRON BODY WITH NO-HUB INLET AND OUTLET, GASKETED BOLTED COVER, AUTOMATIC PVC FLAPPER TYPE BACKWATER VALVE WITH O-RING.
PRV-1	PRESSURE REGULATING VALVE	-	-	-	SIZE/SEE DWG.	-	CLA-VAL 90-01	BRONZE BODY AND COVER, ANSI B16.24, GLOBE TYPE, BRONZE DISC GUIDE, SEAT & COVER, BUNA-N RUBBER DISC, NYLON REINFORCED BUNA-N RUBBER DIAPHRAGM, STAINLESS STEEL STEM NUT AND SPRING, STAINLESS STEEL PILOT SYSTEM.
FCV-1	FLOW CONTROL VALVE	-	-	-	-	1/2"	CIRCUIT SOLVER CS-1/2"-120	THERMOSTATIC SELF-ACTUATING BALANCING VALVE.

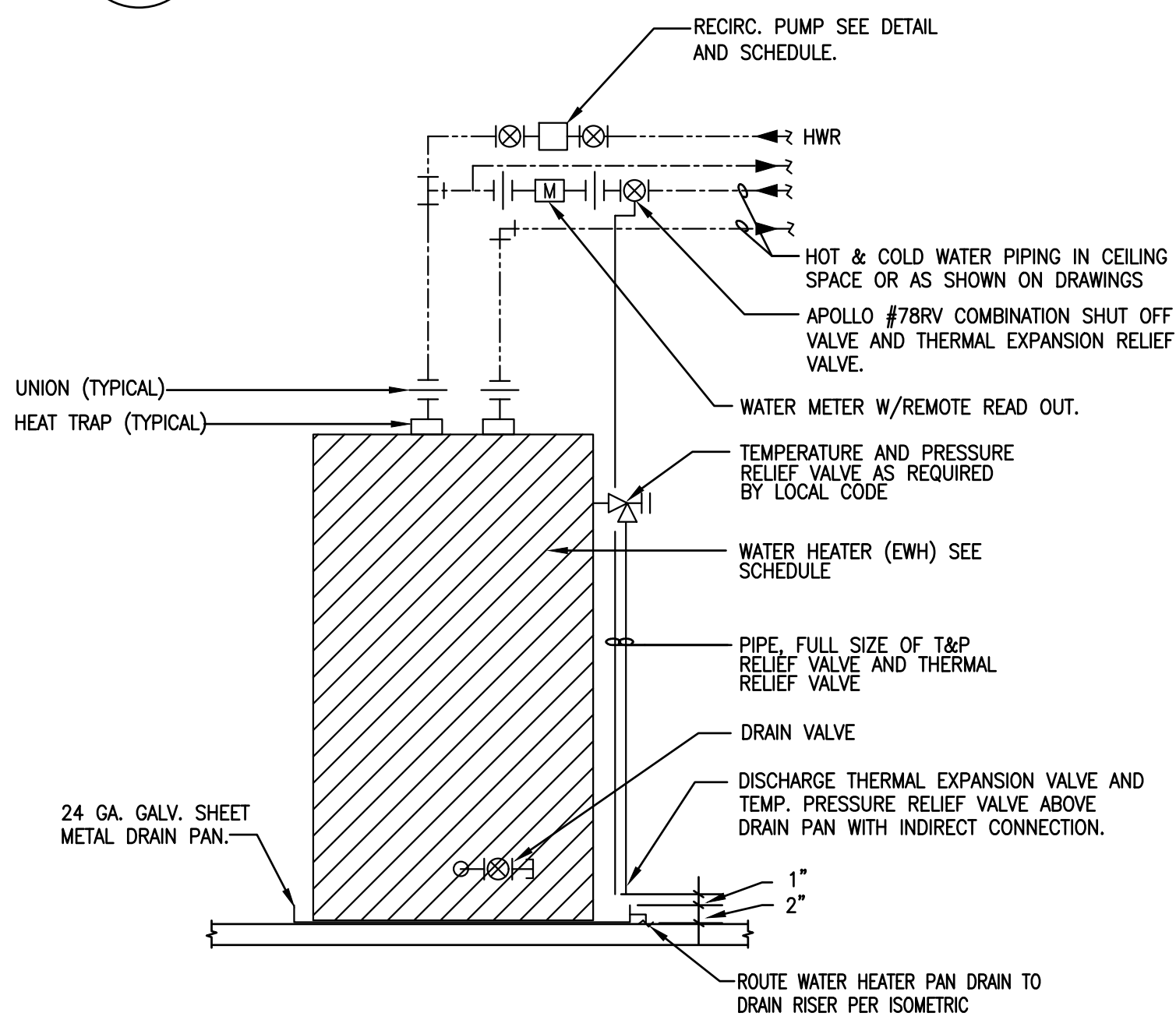
NOTES:

- ALL PLUMBING FIXTURES SHALL BE SUPPLIED WITH ANGLE STOP SUPPLY RISERS. THIS SHALL INCLUDE ALL WASHING MACHINES, DISHWASHERS & ICE MAKERS.
- PROVIDE FULLY ACCESSIBLE SHOCK ARRESTORS ON SUPPLIES TO WASHING MACHINES, DISHWASHERS & ICE MAKERS.



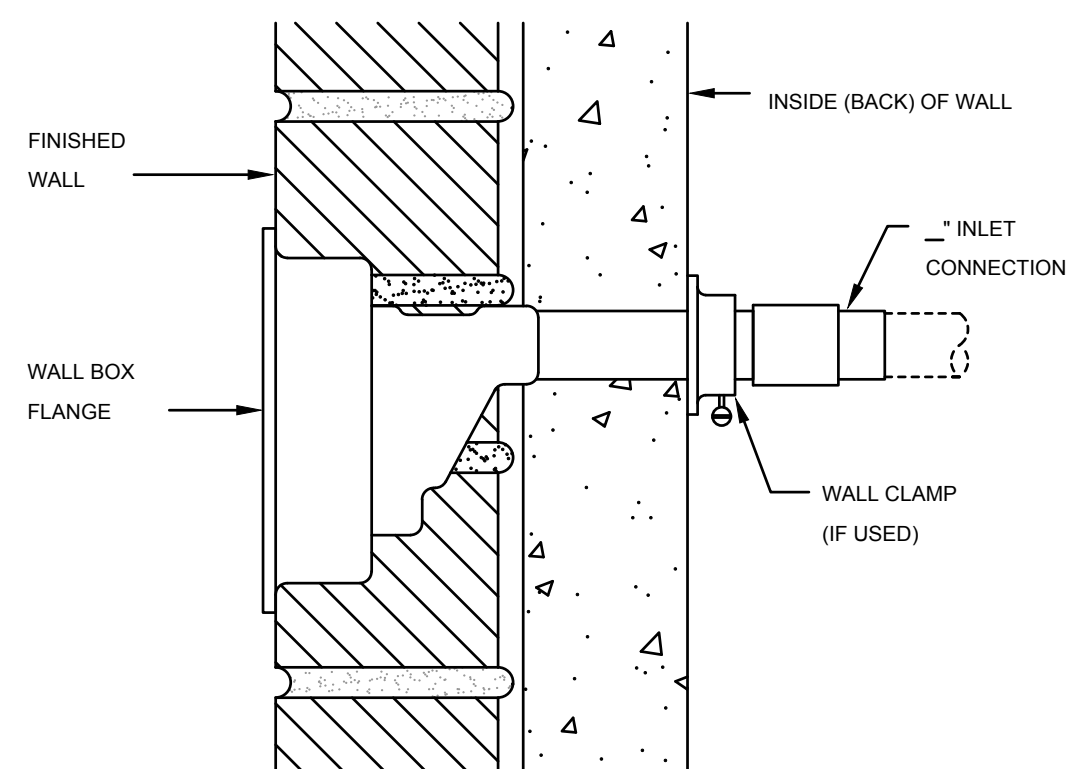
HOT WATER RECIRCULATING PUMP DETAIL

6
NTS



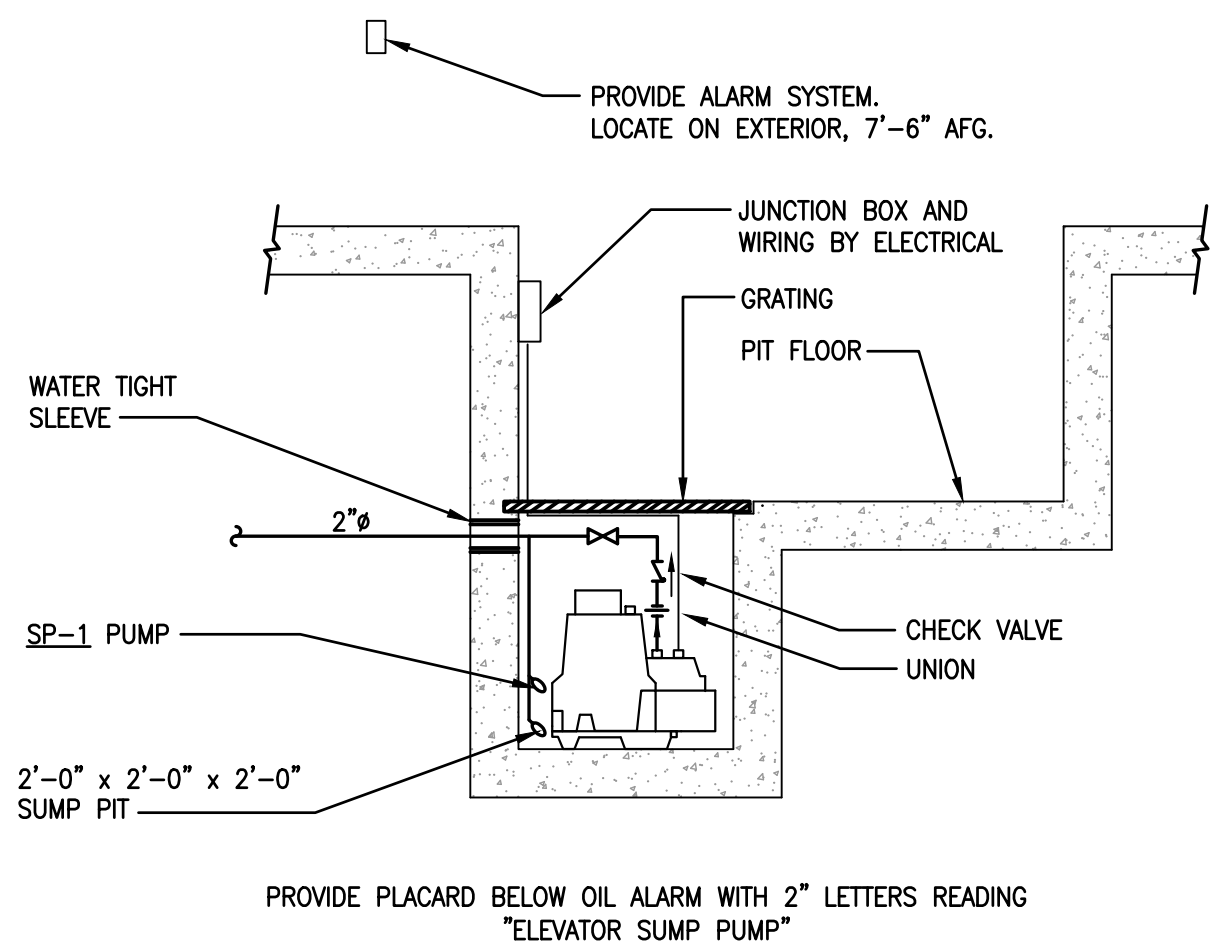
WATER HEATER DETAIL IN UNITS (WITH CIRCULATING PUMP)

3
NTS



FREEZEPROOF WALL HYDRANT

5
NTS



ELEVATOR SUMP PUMP DETAIL

2
NTS

PLUMBING FIXTURE SCHEDULE - APARTMENT

MARK	FIXTURE	WASTE	TRAP	VENT	COLD WATER	HOT WATER	MANUFACTURER /MODEL #	DESCRIPTION
WC-1	WATER CLOSET	3"	INTEG	-	1/2"	-	STERLING WALTON LEFT HAND LEVER: 402312 BOWL: 403378 TANK: 404501 RIGHT HAND LEVER: 402312-RA BOWL: 403378 TANK: 404501-RA KOHLER BREVIA K-20110	FLOOR MOUNTED TANK TYPE, 15-5/16" RIM HEIGHT, 1.28 GALLONS PER FLUSH, WHITE VITREOUS CHINA, ELONGATED BOWL, BRASSCRAFT 1/2 TURN ANGLE STOP SUPPLY TUBE & ESCUTCHEONS. PROVIDE SOLID PLASTIC ELONGATED SEAT WITH COVER.
L-1	LAVATORY	2"	1-1/4"	1-1/2"	1/2"	1/2"	STERLING SANIBEL 442004 MOEN ADLER 84603	20"x17" OVAL DROP-IN, VITREOUS CHINA, 4" CENTERS WITH FRONT OVERFLOW. TWO HANDLE LAVATORY FAUCET, 1.2 GPM, POP UP WASTE, P-TRAP AND WALL ARM. BRASSCRAFT 1/2 TURN ANGLE STOP SUPPLIES W/SUPPLY TUBES AND ESCUTCHEONS.
L-2	LAVATORY	2"	1-3/4"	1-1/2"	1/2"	1/2"	NAMEE'S CITY CESA STYLE 001600-U KOHLER DEVONSHIRE K-193-4	19.7"x8.8" RECTANGULAR WALL MOUNTED, WHITE CERAMIC, SINGLE HOLE WITH FRONT OVERFLOW. SINGLE HANDLE LAVATORY FAUCET, 1.2 GPM, POP UP WASTE, P-TRAP AND WALL ARM. BRASSCRAFT 1/2 TURN ANGLE STOP SUPPLIES W/SUPPLY TUBES AND ESCUTCHEONS.
S-1	SINK (SINGLE BOWL)	2"	1-1/2"	1-1/2"	1/2"	1/2"	STERLING SOUTHWEST 24912-4-NA MOEN ADLER 87233	33"x22"x8" SINGLE BOWL, 20 GAUGE STAINLESS STEEL, TOP MOUNT SINK. SINGLE LEVER HANDLE PULL DOWN SPRAYER, 1.5 GPM, STAINLESS STEEL FINISH. STAINLESS STEEL STRAINER DRAIN AND TAILPIECE, P-TRAP AND WALL ARM. BRASSCRAFT 1/2 TURN ANGLE STOP SUPPLY TUBES & ESCUTCHEONS.
BT-1	BATHTUB	2"	2"	1-1/2"	1/2"	1/2"	STERLING ENSEMBLE RIGHT DRAIN: 71101120 LEFT DRAIN: 71101110 MOEN CALDWELL 828705RN	60"x36"x16" VIKRELL, SLOPING WITH INTEGRAL APRON AND TILING FLANGE. PRESSURE BALANCING MIXING VALVE. TRIM WITH SPRAY HEAD, ARM AND FLANGE, 1.75 GPM, CHROME. LSP RAPID FIT LIFT AND TURN WASTE AND OVERFLOW KIT.
SH-1	SHOWER	2"	2"	2"	1/2"	1/2"	STERLING ENSEMBLE RIGHT DRAIN: 72181120 LEFT DRAIN: 72181110 MOEN CALDWELL 82495C	60"x32" VIKRELL, 3-1/2" THRESHOLD, TEXTURED FLOOR AND TILING FLANGE. PRESSURE BALANCING MIXING VALVE. TRIM WITH SPRAY HEAD, ARM AND FLANGE, 1.75 GPM, CHROME. PVC FLOOR DRAIN WITH STAINLESS STEEL STRAINER.

NOTES:

- CONTRACTOR TO VERIFY IF THIS PROJECT HAS I.D. DRAWINGS. IF THERE ARE I.D. DRAWINGS THE PLUMBING FIXTURES SELECTED IN THE I.D. PACKAGE OVERRIDE THIS PLUMBING SCHEDULE.
- COLOR/FINISH OPTIONS SHALL BE SUBMITTED TO THE ARCHITECT/I.D./OWNER PRIOR TO PURCHASE AND INSTALLATION.
- REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS OF ALL FIXTURES.
- ALL PLUMBING FIXTURES SHALL BE SUPPLIED WITH ANGLE STOP SUPPLY RISERS. THIS SHALL INCLUDE ALL FAUCETS AND TOILETS.

ELECTRIC WATER HEATER SCHEDULE - APARTMENT

MARK	TYPE	GALLONS	INPUT KW	GPH REC. @ 90°F RISE	VOLTAGE/PHASE	OPERATING WEIGHT (LBS.)	DIMENSIONS	SELECTION BASED ON:		UNIFORM ENERGY FACTOR	NOTES
								MANUFACTURER	MODEL #		
EW-1	ELECTRIC	38	4.5	21	208/240V/1φ	418	32"H x 23"W - LOW BOY	A.O. SMITH OR EQUAL	ENL-40	.92	1. & 2.
EW-2	ELECTRIC	40	4.5	21	208/240V/1φ	418	62"H x 18"W - TALL	A.O. SMITH OR EQUAL	ENT-40	.92	1. & 2.
EW-3	ELECTRIC	50	4.5	21	208/240V/1φ	510	61"H x 21"W - TALL	A.O. SMITH OR EQUAL	ENT-50	.93	1. & 2.

NOTES:

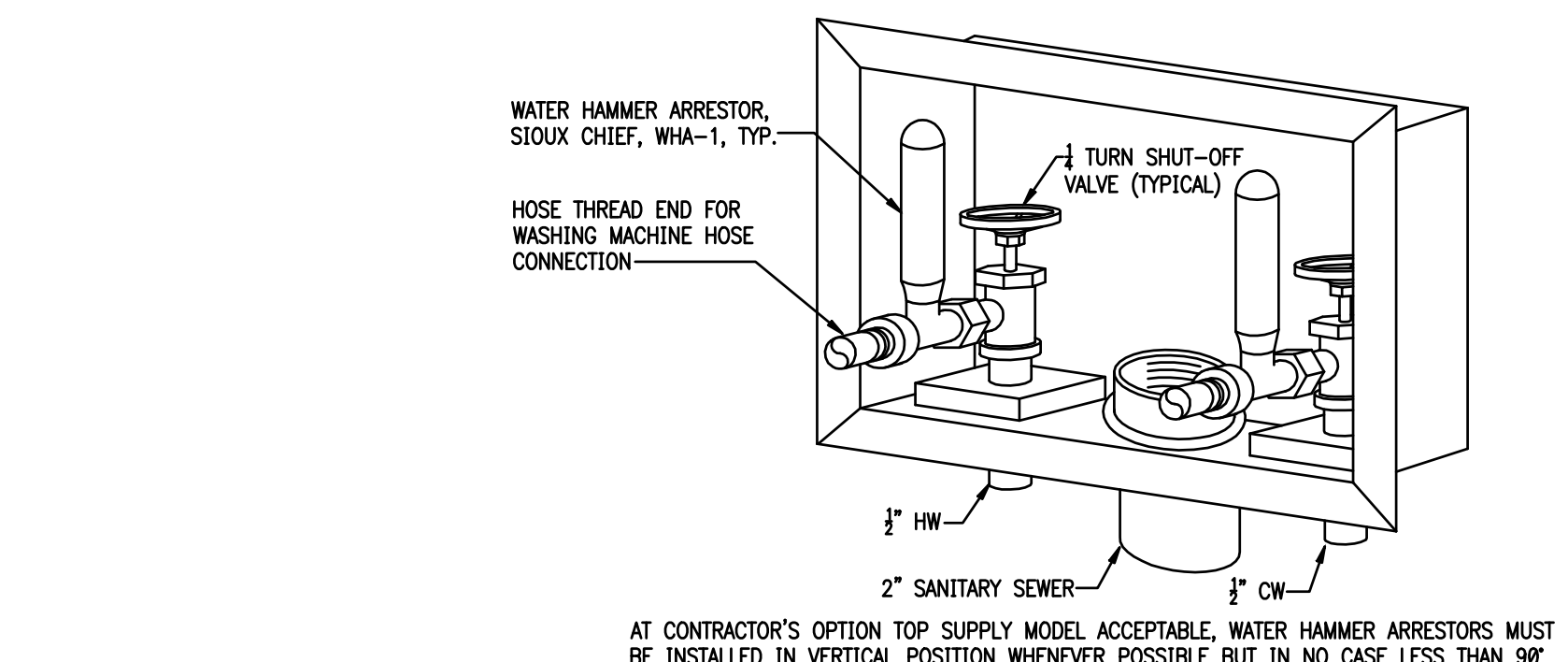
- PROVIDE T & P VALVE, EXPANSION CONTROL DEVICE, AND 24 GAUGE 1/2" DEEP WATER HEATER DRAIN PAN WITH 1" DRAIN CONNECTION. REFER TO DETAIL.
- COORDINATE WATER HEATER LOCATION AND PIPING WITH MECHANICAL PLANS.

PUMP SCHEDULE - APARTMENT

MARK	LOCATION	GPM	FT HEAD	CONN. SIZE	MOTOR DATA		SELECTION BASED ON:		NOTES
				OUTLET	HP/WATT	VOLTAGE/PHASE	MANUFACTURER	MODEL	
SP-1	ELEVATOR SUMP PIT	50	25	1-1/2"	3/4 HP	120/1φ	LIBERTY	ELV-290	1. & 2.
CP-1	UNIT CIRCULATING PUMP	2.2	3.9	1/2"	8.5 WATTS	120/1φ	GRUNDFOS	UP10-16 PM A BU/LC	3. & 4.

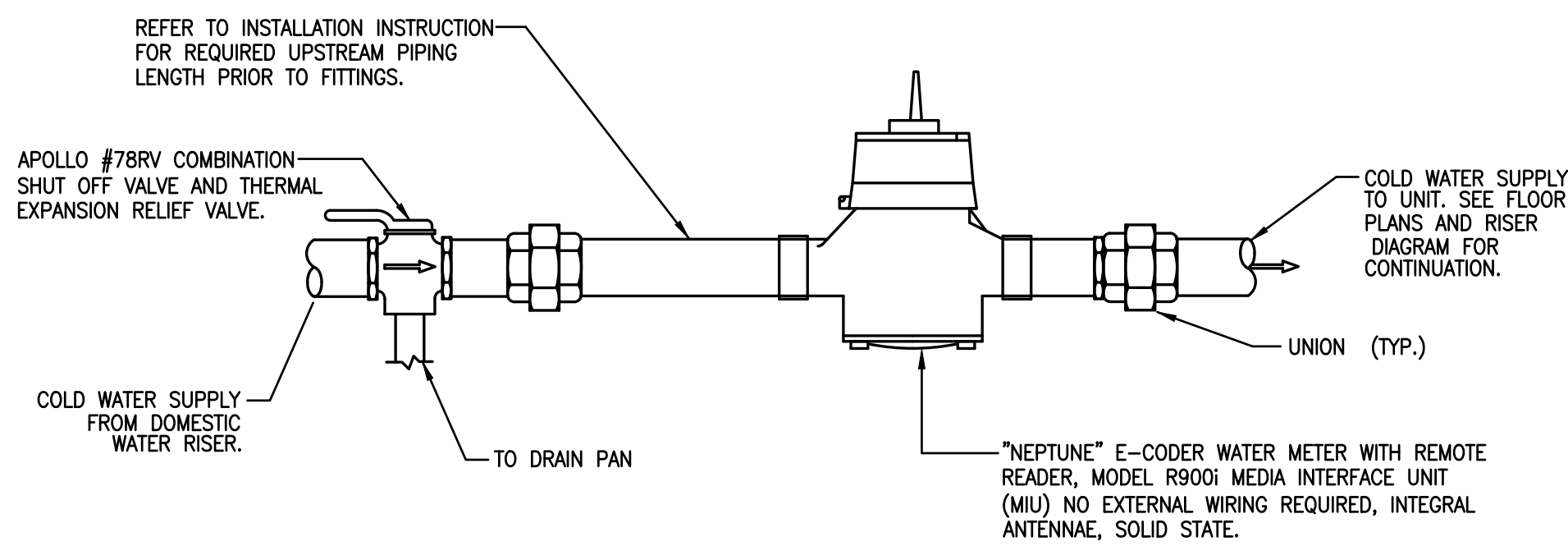
NOTES:

- SUMP PUMP PROVIDED WITH OIL DETECTOR CONTROL REQUIRED FOR HYDRAULIC TYPE ELEVATORS. LOCATE ALARM IN MECHANICAL ROOM AND PROVIDE SIGNAGE "ELEVATOR SUMP PUMP". PROVIDE MODEL WITHOUT OIL DETECTOR IF TRACTION DRIVE ELEVATOR IS BEING INSTALLED.
- PER ASME 17.1 ONE 50 GPM SUMP PUMP IS REQUIRED PER ELEVATOR CAR.
- UNIT CIRCULATING PUMP SHALL OPERATE PER FBCE R403.5.2. PUMP SHALL START ON FLOW OF DEMAND HOT WATER AND BASED ON MAINTAINING LOOP TEMPERATURE OF 104°F.
- PROVIDE WITH AQUASTAT AND FLOW CONTROL.



WASHER BOX

4
NTS



WATER METER DETAIL (WITH EXPANSION VALVE)

1
NTS



ISSUE HISTORY

No.	Date	Description
1	04/15/22	Permit Submission

REVISION HISTORY

No.	Date	Description



FUGLEBERG KOCH

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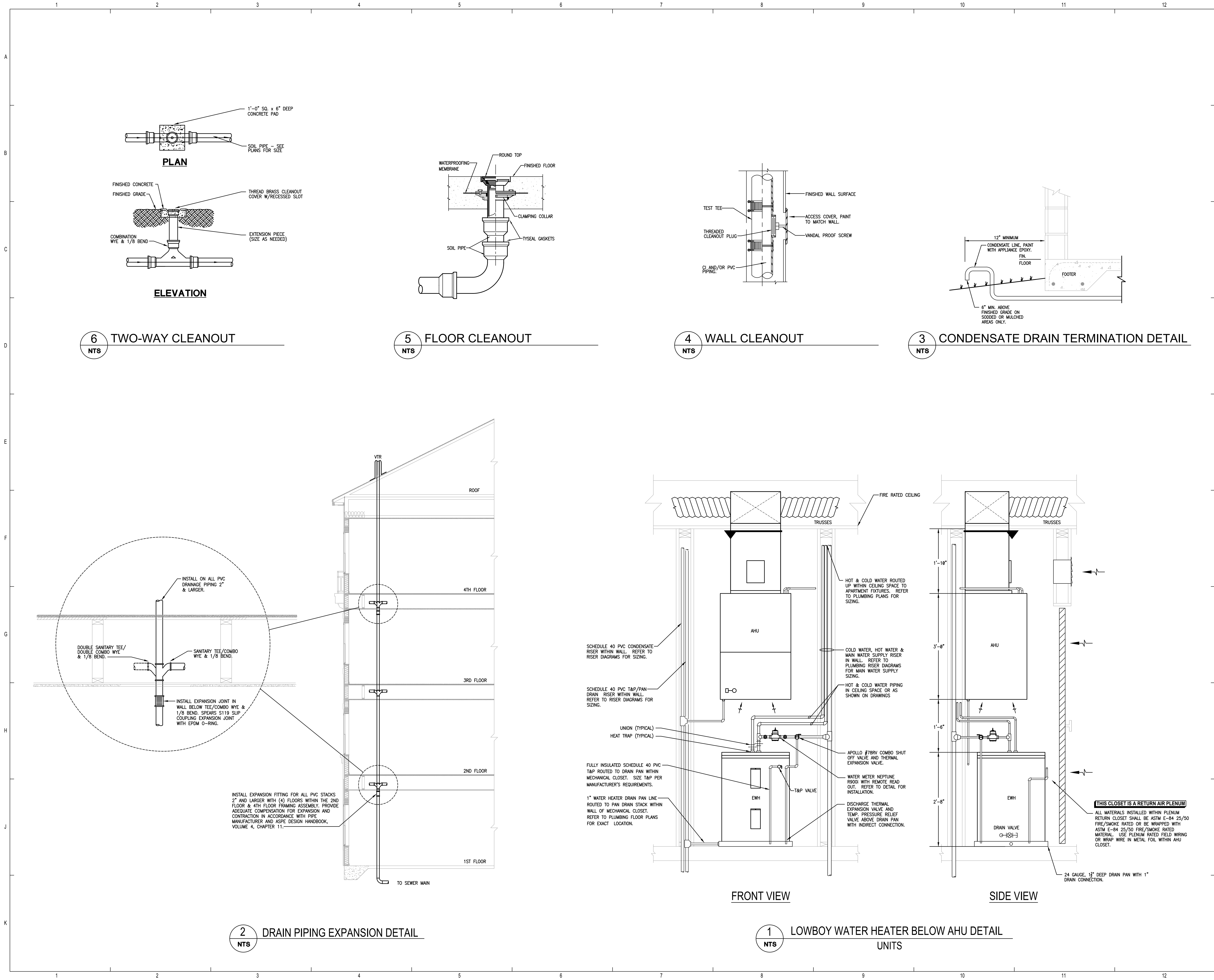
THE MADISON

HUNTSVILLE, AL

**APARTMENT
SCHEDULE & DETAIL
PLUMBING**

P5.01

Drawn:	MJS/MB
Checked:	BLS/AB
Approved:	BLS/AB
Date:	04/15/2022
Project #:	5722



ISSUE HISTORY		
No.	Date	Description
1	04/15/22	Permit Submission

REVISION HISTORY		
No.	Date	Description

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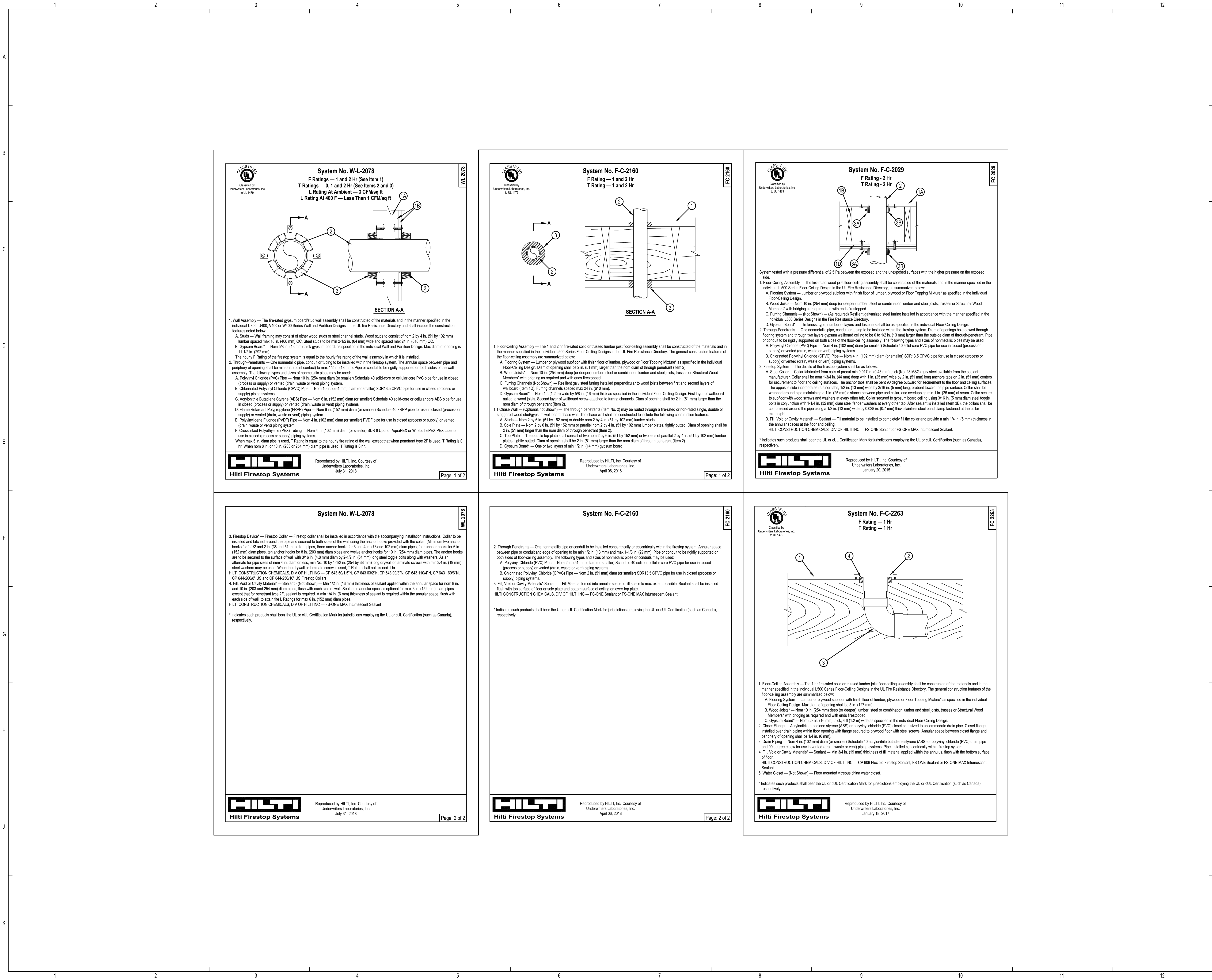
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THE MADISON	Drawn: MRSMB
HUNTSVILLE, AL	Checked: BLSAIB
	Approved: BLSAIB
	Date: 04/15/2022
	Project #: 5722

APARTMENT DETAILS
PLUMBING

P5.02



ISSUE HISTORY

No.	Date	Description
1	04/15/22	Permit Submission

REVISION HISTORY

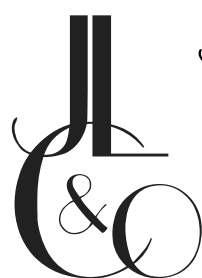
No.	Date	Description



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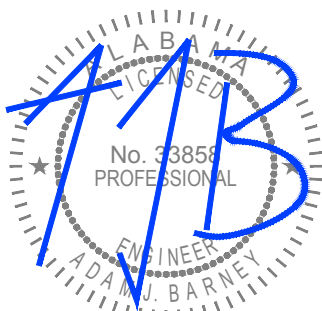
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THE MADISON

HUNTSVILLE, AL

**APARTMENT DETAILS
PLUMBING**

P5.03

Drawn	MJRSMB
Checked	BLSAJB
Approved	BLSAJB
Date	04/15/2022
Project #	5722