HOME 1 APARTMENTS KNOXVILLE

1500 NORTH CHERRY STREET

KNOXVILLE, TENNESSEE

GENERAL NOTES

1. ALL CONSTRUCTION IS INTENDED TO BE IN CONFORMANCE WITH FEDERAL AND STATE LAWS, CURRENT LOCAL ORDINANCES & BUILDING CODES AND THE ICC/ANSI A117.1 ACCESSIBILITY CODE, 2009 EDITION. REPORT DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH WORK.

2. THE CONTRACTOR SHALL HAVE A VALID CONTRACTORS LICENSE AS REQUIRED BY LOCAL GOVERNING AUTHORITIES AND SHALL OBTAIN ALL PERMITS AND APPROVALS AND PAID ALL REQUIRED FEES. ALL WORK PERFORMED BY G.C. SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND TO MEET CURRENT SAFETY CODE REQUIREMENTS.

3. CONTRACTOR TO FIELD VERIFY ALL SITE CONDITIONS PRIOR TO COMMENCING WITH WORK.

4. ALL WORK SHALL BE INSTALLED COMPLETE IN ANY RESPECT.

5. THE CONTRACTOR IS TO BE FULLY RESPONSIBLE FOR DAMAGES AND OMISSIONS OF THE SUBCONTRACTORS.

6. G.C. TO VERIFY REQUIREMENTS OF ALL OWNER PROVIDED ITEMS WITH OWNER BEFORE PROCEEDING WITH WORK.

7. CONTRACTOR TO FIELD VERIFY DIMENSIONS OF PLUMBING FIXTURES, (TOILETS, SINKS, SHOWER UNIT) VS. WALL PARTITION TYPES (WALL FRAMING AND ADDITIONAL BLOCKING MAY BE REQUIRED) BEFORE COMMENCING FRAMING.

8. CONTRACTOR TO VERIFY ALL DIMENSIONS WITH MANUFACTURER ON FIXTURES & EQUIPMENT SUPPLIED, PRIOR TO INSTALLATION.

9. REFER TO ENLARGED DETAILS FOR ADDITIONAL INFORMATION INCLUDING DIMENSIONS, ENLARGED DETAILS TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS, NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING.

10. WRITTEN DIMENSIONS SHALL PREVAIL; DO NOT SCALE DRAWINGS. DIMENSIONS ARE FACE OF STUD TO FACE OF STUD FOR WALL FRAMING. UNLESS NOTED OTHERWISE. WHERE NEW WORK EXTENDS FROM EXISTING SURFACES OR MATERIALS, DIMENSIONS SHALL BE FROM SAME EXISTING FACE OF MATERIAL.

11. THE CONTRACTOR IS RESPONSIBLE FOR ALL BLOCKING REQUIRED FOR ALL WALL HUNG EQUIPMENT, SUCH AS BUT NOT LIMITED TO THE FOLLOWING: TOILET ACCESSORIES, SHELVING, WALL CABINETS, ETC.

12. ALL STRUCTURAL AND DIMENSIONAL ISSUES MUST BE VERIFIED BY THE CONTRACTOR. IF DISCREPANCIES ARISE, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF SUCH DISCREPANCIES.

13. ALL PENETRATIONS THROUGH WALLS ARE TO BE SEALED WITH UL LISTED MATERIALS AND METHODS.

14. THE CONTRACTOR IS TO PROVIDE CAULKING AT THE FOLLOWING LOCATIONS UNLESS NOTED OTHERWISE:
   A) AT CASEWORK ENDS WHERE THEY MEET SPECIFIED WALL TYPES.
   B) AT HOLLOW METAL DOOR FRAMES, BOTH SIDES AND TOP.
   C) ALL FLOOR/BASE MOUNTINGS FOR TOILETS AND WALL HUNG PLUMBING FIXTURES.

15. WHERE GYPSUM BOARD IS USED IN TOILET ROOMS OR SINK/FIXTURE WET WALLS - PROVIDE MOISTURE RESISTANT GYPSUM BOARD.

16. WHERE EXISTING CONSTRUCTION IS DISTURBED BY NEW WORK ALL FINISHED WORK SHALL MATCH EXISTING IN TEXTURE, COLOR AND MATERIAL.

17. EXTERIOR MATERIALS ARE INDICATED IN A GENERIC FORM. CONTRACTOR TO INSTALL ALL FINISHES ACCORDING MANUFACTURER'S STANDARD PRACTICES.

18. WHERE PENETRATIONS OCCUR IN RATED CONSTRUCTION, CONTRACTOR SHALL CAULK PENETRATION WITH FIRE CAULK MEETING OR EXCEEDING RATED CONSTRUCTION.

19. CONTRACTOR TO COORDINATE PROJECT WORK SCHEDULE FOR ALL TRADES INVOLVED. THE CONTRACTOR IS RESPONSIBLE FOR SITE CLEAN-UP AND SHALL PROPERLY DISPOSE OF UNUSED MATERIALS AND CONSTRUCTION DEBRIS OFF-SITE IN MANNER REGULATED BY THE LOCAL AUTHORITIES.

20. INTERIOR FINISHES ARE NOTED IN A GENERIC MANNER. CONTRACTOR TO CONFIRM WITH OWNER REGARDING FINISHES SELECTIONS AND COLORS.

21. JOBSITE SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR. THE GENERAL PUBLIC SHALL BE PROTECTED FROM CONSTRUCTION AREAS DURING AND AFTER WORK HOURS THROUGHOUT THE LIFE OF THE PROJECT.

Project Description:

The overall project consists of the renovation of two similar hotel buildings.

Building A:
Existing hotel rooms to be renovated to provide new studio apartment style living space. Each of the three floor levels contain 30 units providing a combined sleeping/dining area with small kitchenette adjacent to existing bathroom containing tub and toilet. Units are 253 sf in area including the bath and measure 11'-1" wide x 22'-9" deep. Interior finishes are to include painted gypsum board walls and ceiling with Luxury Vinyl Tile floor in the living space and ceramic tile in the bath.

Building B:
Existing hotel rooms to be renovated to provide new studio apartment style living space. The ground floor level contains 30 units, 6 of which meet Type A accessible design standards, and 6 of which meet Type B accessible design standards. The ground floor level also provides space for an Exercise Room and tenant Laundry. The second and third levels contain 32 units providing apartment style living space. Each unit provides a combined sleeping/dining area with small kitchenette adjacent to existing bathroom containing tub and toilet. Units are 253 sf in area including bath and measure 11'-1" wide x 22'-9" deep. Interior finishes are to include painted gypsum board walls and ceiling with Luxury Vinyl Tile floor in the living space and ceramic tile in the bath.

Sheet List

Sheet Number	sheet numbering	Filter this sheet	Sheet Name	Current Revision	Current Revision Date
T-1.0	1		Cover Sheet	1	03-25-22
ALS-1.0	2		Building Code Summary and Life/Safety Plan	1	03-25-22
ALS-1.01	2.1		Large Scale Assembly Details	1	03-25-22
ALS-1.1	3		Level 1 Life/Safety Plan	1	03-25-22
ALS-1.2	4		Level 2 Life/Safety Plan	1	03-25-22
ALS-1.3	5		Level 3 Life/Safety Plan	1	03-25-22
ALS-1.4	6		UL Detail M518		
ALS-1.5	7		UL Detail M518		
ALS-1.6	8		UL Detail U341		
ALS-1.7	9		UL Detail U341		
ALS-1.8	10		UL Detail U356		
ALS-1.9	11		UL Detail U356		
ALS-1.10	12		UL Detail U801	1	03-25-22
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ALS-1.14	16		UL Detail P336	1	03-25-22
ALS-1.15	17		UL Detail D925	1	03-25-22
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ALS-1.17	19		UL Detail D925	1	03-25-22
ALS-1.18	20		UL Detail D925	1	03-25-22
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AD-1.1	23		Level 1 Demolition Plan		
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AD-1.3	25		Level 3 Demolition Plan		
AD-1.4	26		Roof Demolition Plan		
A-1.1	27		Level 1 Floor Plan	1	03-25-22
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A-3.1	34		Exterior Elevations	1	03-25-22
A-3.2	35		Exterior Elevations		
A-3.3	36		Exterior Elevations		
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M-1.2	55		Level 2 Mechanical Plan - Bldg A	1	03-25-22
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P-0.2	59		Plumbing Details		
P-1.1	60		Level 1 Sanitary Plan - Building A	1	03-25-22

Sheet List

Sheet Number	sheet numbering	Filter this sheet	Sheet Name	Current Revision	Current Revision Date
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P-1.3	62		Level 3 Sanitary Plan - Building A	1	03-25-22
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E-1.1	68		Level 1 Lighting Plan - Building A	1	03-25-22
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E-2.1	71		Level 1 Power Plan - Building A	1	03-25-22
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E-3.1	74		Electrical Service Riser Diagram	1	03-25-22
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BD-1.1	83		Level 1 Demolition Plan		
BD-1.2	84		Level 2 Demolition Plan		
BD-1.3	85		Level 3 Demolition Plan		
BD-1.4	86		Roof Demolition Plan		
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B-1.2	88		Level 2 Floor Plan		
B-1.3	89		Level 3 Floor Plan		
B-1.4	90		Roof Plan		
B-2.1	91		Level 1 Ceiling Plan		
B-2.2	92		Level 2 Ceiling Plan		
B-2.3	93		Level 3 Ceiling Plan		
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B-3.2	95		Exterior Elevations		
B-3.3	96		Exterior Elevations		
B-5.1	97		Building Section		
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M-1.5	99		Level 1 Mechanical Plan - Building B	1	03-25-22
M-1.6	100		Level 2 Mechanical Plan - Building B	1	03-25-22
M-1.7	101		Level 3 Mechanical Plan - Building B	1	03-25-22
M-1.8	102		Roof Mechanical Plan - Building B		
P-1.4	103		Level 1 Sanitary Plan - Building B	1	03-25-22
P-1.5	104		Level 2 Sanitary Plan - Building B	1	03-25-22
P-1.6	105		Level 3 Sanitary Plan - Building B	1	03-25-22
P-2.4	106		Level 1 Domestic Water Plan - Building B	1	03-25-22
P-2.5	107		Level 2 Domestic Water Plan - Building B	1	03-25-22
P-2.6	108		Level 3 Domestic Water Plan - Building B	1	03-25-22
P-3.1	109		Roof Plan - Buildings A and B		
P-4.1	110		Plumbing Riser Diagrams	1	03-25-22
P-4.3	111		Level 1 Sanitary Isometric - Building B	1	03-25-22
P-4.4	112		Natural Gas Isometrics	1	03-25-22
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E-1.5	115		Level 2 Lighting Plan - Building B	1	03-25-22
E-1.6	116		Level 3 Lighting Plan - Building B	1	03-25-22
E-2.4	117		Level 1 Power Plan - Building B	1	03-25-22
E-2.5	118		Level 2 Power Plan - Building B	1	03-25-22
E-2.6	119		Level 3 Power Plan - Building B	1	03-25-22

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

HOME 1 APARTMENTS KNOXVILLE
at
1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

1500 Cherry St. Lodge LLC
ATTN: JOHN PATEL (PRES)
400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

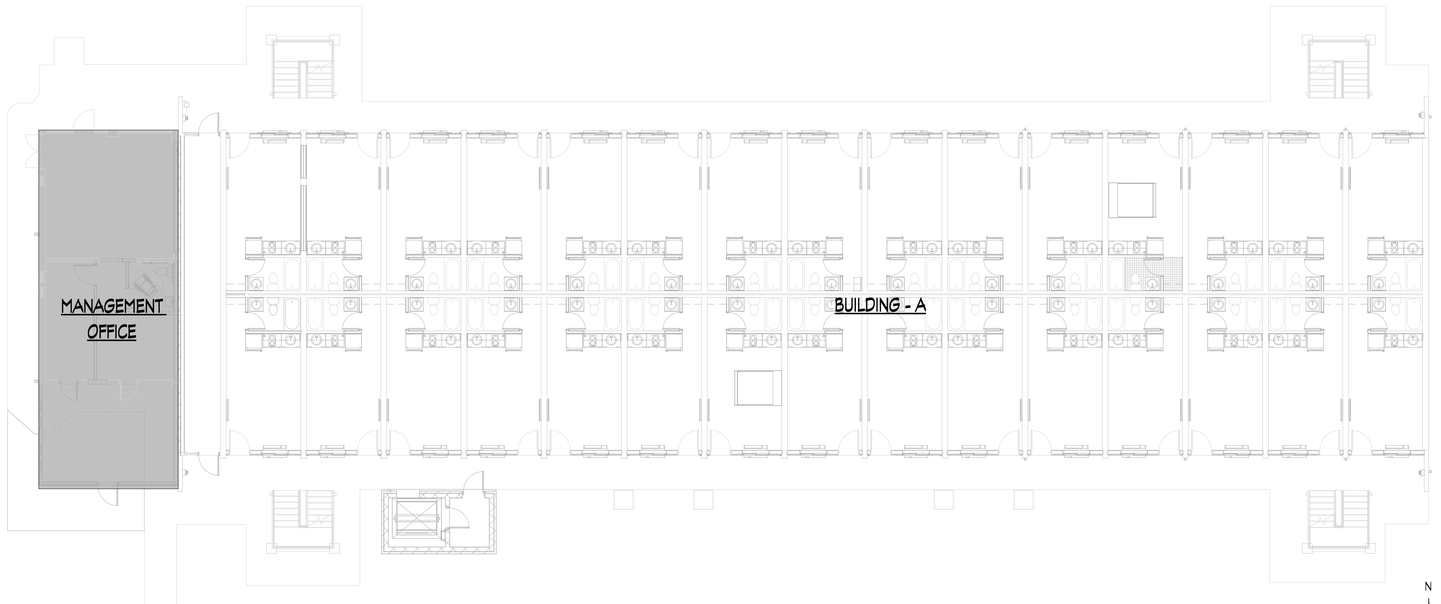
March Adams & Associates
Consulting Engineers
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

EDMUND G. GARBEE REGISTERED ARCHITECT 9/03/2021 STATE OF TENNESSEE

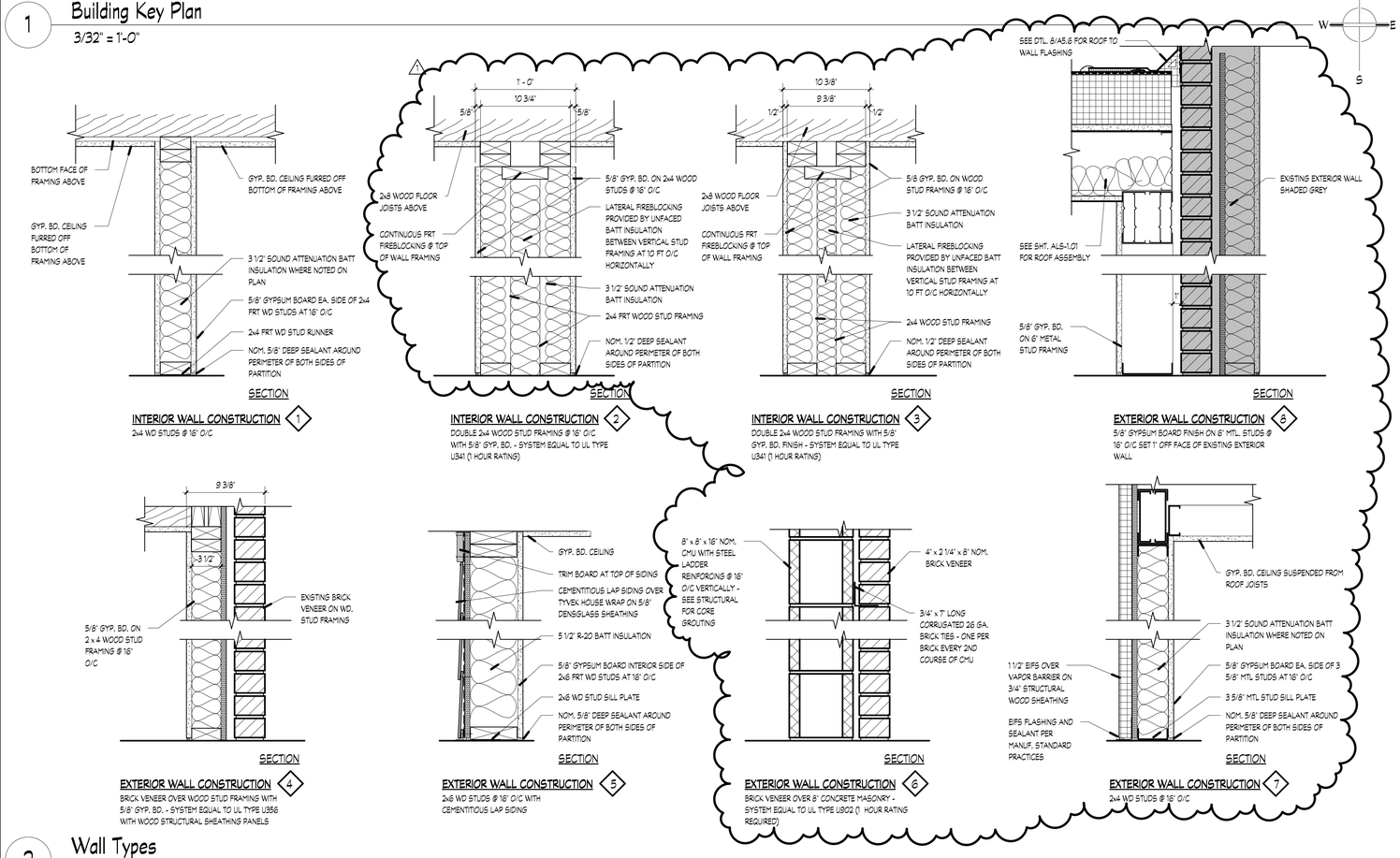
Garbee Architecture
PH: 423.364.2830

DRAWN: EG
CHECKED: EG
JOB No. 21-008
DATE: September 3, 2021

T-1.0
BUILDING - A
Cover Sheet



1 Building Key Plan
3/32" = 1'-0"



2 Wall Types
1 1/2" = 1'-0"

BUILDING CODE SUMMARY

PROJECT INFORMATION

NAME OF PROJECT:	HOME 1 APARTMENTS KNOXVILLE
ADDRESS:	ADDRESS: 1500 NORTH CHERRY STREET, KNOXVILLE, TENNESSEE 37917
PROPOSED USE:	PROPOSED USE: RESIDENTIAL APARTMENT
OWNER / CONTACT PERSON:	CONTRACTOR / CONTACT PERSON: MARC MAKWANA: (269) 277-3131
GOVERNING CODES:	2009 ICC / ANSI A117.1 2018 INTERNATIONAL ENERGY CONSERVATION CODE 2018 INTERNATIONAL BUILDING CODE 2018 INTERNATIONAL EXISTING BUILDING CODE 2017 NATIONAL ELECTRICAL CODE 2018 INTERNATIONAL FUEL GAS CODE 2018 INTERNATIONAL MECHANICAL CODE 2018 INTERNATIONAL PLUMBING CODE 2018 INTERNATIONAL PROPERTY MAINTENANCE CODE KNOXVILLE CODE OF ORDINANCES: CHAPTER 6 BUILDINGS AND BUILDING REGULATIONS, ARTICLE I, SECTION 6-5. FIRE DISTRICT 2018 INTERNATIONAL FIRE CODE

PER 2018 IEBC SECTION 301.3 ALTERATION, ADDITION OR CHANGE OF OCCUPANCY:

ALL WORK ON THIS PROJECT COMPLIES WITH METHODS LISTED IN SECTION 301.3.1 PRESCRIPTIVE COMPLIANCE AND SHALL MEET REQUIREMENTS SET FORTH IN THIS SECTION AND ASSOCIATED 2018 IBC STANDARDS.

DESIGNER OF RECORD

DESIGNER	NAME	LICENSE #	TELEPHONE #
ARCHITECTURAL	EDMUND G. GARBEE III	101243	423-364-2830
ELECTRICAL	STEVEN BOYD SABACKY	111301	423-698-6675
PLUMBING	C. JEFFERY WESTBROOK	110589	423-698-6675
MECHANICAL	C. JEFFERY WESTBROOK	110589	423-698-6675
STRUCTURAL	STEVEN R. SANDIDGE		423-991-1474
CIVIL / LANDSCAPE			
SPRINKLER / STANDPIPE	C. JEFFERY WESTBROOK	110589	423-698-6675

BUILDING DATA:

OCCUPANCY	R-2		
SEPARATED OCCUPANCY	Yes		
CONSTRUCTION TYPE	Type VA		
SPRINKLERED	Yes		
ACTUAL NO. OF STORIES	3	ALLOWED NO. STORIES	4
ACTUAL BUILDING HEIGHT	36'-0"	ALLOWED BUILDING HEIGHT	70'
MEZZANINE	No		
FIRE CASE	No		

ALLOWABLE BUILDING AREA:
EQUATION 5-2: $A_a = [A_t + (NS \times I_f)] \times S_f$
$A_a = [36,000 + (12,000 \times 0.54)] \times 3 = 127,440$ SF — **127,440 SF** ALLOWABLE BUILDING AREA

ACTUAL GROSS BUILDING AREA:

GROUND FLOOR	12,656 SF
SECOND FLOOR	11,753 SF
THIRD FLOOR	11,753 SF
TOTAL	**36,362 SF** ACTUAL GROSS BUILDING AREA

BUILDING FRONTAGE WEIGHTED AVERAGE:
EQUATION 5-4: $W = (L_1 \times w_1 + L_2 \times w_2 + L_3 \times w_3 + L_4 \times w_4 + L_5 \times w_5)/F$ F = 438.83
W = (53.5 x 25 + 27.58 x 30 + 133.67 x 30 + 47.67 x 30 + 176.42 x 25)/438.83
W = 27.38

BUILDING FRONTAGE INCREASE:
EQUATION 5-5: $I_f = [F/P - 0.25]W/30$ F = 438.83 P = 521.21 W = 27.38
$I_f = [438.83 / 521.25 - 0.25]27.38 / 30$
$I_f = [0.84 - 0.25]0.91$
$I_f = 0.54$

FIRE RESISTANCE RATINGS:

FIRE RESISTANCE RATINGS OF BUILDING ELEMENTS	REQUIRED HOURLY
PRIMARY STRUCTURAL FRAME	1
BEARING WALLS	
EXTERIOR	1
INTERIOR	1
NONBEARING WALLS AND PARTITIONS	
EXTERIOR	0 - SEPARATION DISTANCE > 30 FT
NONBEARING WALLS AND PARTITIONS	
INTERIOR	0
FLOOR CONST. AND ASSOC. SECONDARY MEMBERS	1
ROOF CONST. AND ASSOC. SECONDARY MEMBERS	1
DWELLING UNIT SEPARATION	1
EXIT ACCESS CORRIDORS	0.5
ELEVATOR LOBBY	N / A
CEILING-FLOOR ASSEMBLY	1

LIFE SAFETY SYSTEM:

EMERGENCY LIGHTING AND EXIT SIGNS	YES
FIRE ALARM AND SMOKE DETECTOR SYSTEMS	YES
PANIC HARDWARE	YES

EXIT REQUIREMENTS:

DEAD END LIMIT - MAXIMUM CONDITION ALLOWED:	50' (SECTION 1020.4, EXCEPTION #2)
TRAVEL DISTANCE TO EXIT - MAXIMUM CONTITION ALLOWED:	250' (TABLE 1017.2)
COMMON PATH OF TRAVEL	125' (TABLE 1006.2.1)

OCCUPANCY:

FLOOR	OCC. CLASS	OCCUPANCY CALCULATION
1ST FLOOR	BUSINESS (B)	OCCUPANCY COUNT TOTAL = 18
1st FLOOR	APARTMENT (R-2)	1 PERSON PER UNIT x 30 = 30
2nd FLOOR	APARTMENT (R-2)	1 PERSON PER UNIT x 30 = 30
3rd FLOOR	APARTMENT (R-2)	1 PERSON PER UNIT x 30 = 30
TOTAL OCCUPANCY:		108

EXIT WIDTH REQUIREMENTS:

	STAIR REQUIRED	STAIR PROVIDED	(BALCONY) CORRIDOR REQUIRED	CORRIDOR PROVIDED
GROUND FLOOR	N / A	N / A	N / A	N / A
SECOND FLOOR	* 60 OCC. x 0.3 = 18.0"	44"	30 OCC. x 0.2 = 6.0"	44"
THIRD FLOOR	30 OCC. x 0.3 = 9.0"	44"	30 OCC. x 0.2 = 6.0"	44"

* (INCLUDES CUMULATIVE LOAD FROM 2ND AND 3RD LEVELS)

SITE PARKING DATA:

TOTAL PARKING REQUIRED:	N / A
TOTAL PARKING PROVIDED:	N / A
HANDICAP SPACES REQUIRED:	N / A
HANDICAP SPACES PROVIDED:	N / A

Garbee Architecture
PH: 423.364.2830

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

HOME 1 APARTMENTS KNOXVILLE

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

1500 Cherry St. Lodge LLC
ATTN: JOHN PATEL (PRES)
400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

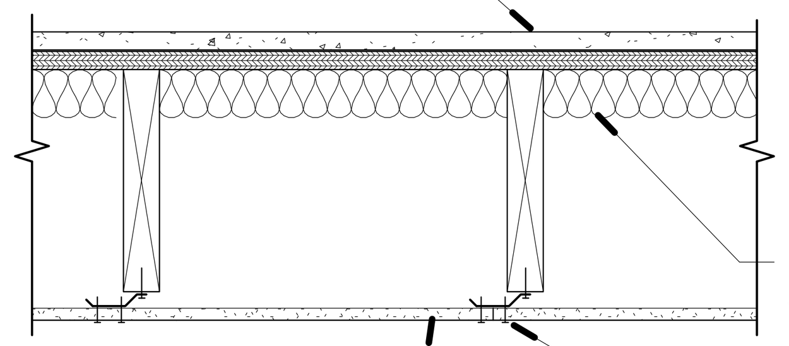
March Adams & Associates
Consulting Engineers
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

EDMUND G. GARBEE III — REGISTERED ARCHITECT — No. 101243 — STATE OF TENNESSEE
9/03/2021

DRAWN: EG
CHECKED: EG
JOB No. 21-008
DATE: September 3, 2021

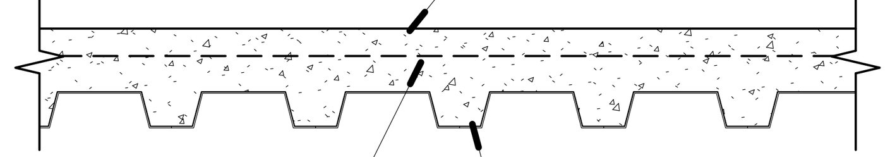
ALS-1.0

BUILDING - A
Building Code Summary and Life/Safety Plan



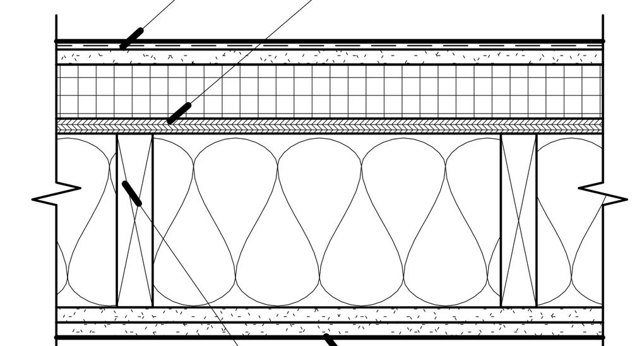
RATED FLOOR DETAIL (9)

1500 PSI TOPPING SLAB OVER 0.03 IN. THICK ASPHALT FELT ON 5/8" PLYWOOD SUBFLOOR SUPPORTED BY 2x10 WOOD JOISTS @ 16" O/C WITH 5/8" GYP. BD CEILING BELOW - ASSEMBLY EQUAL TO UL TYPE M518 SYSTEM #1 ALTERNATE CONSTRUCTION (1 HOUR RATING)



ELEVATOR TOWER STORAGE FLOOR DETAIL (10)

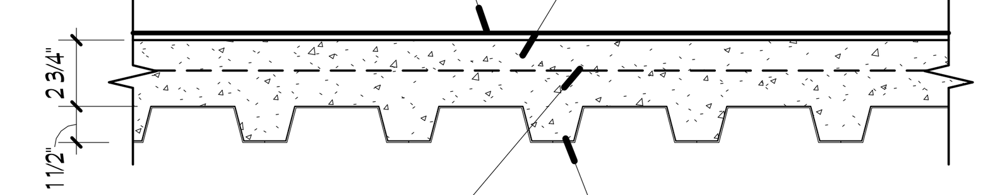
2-5/8" THICK LIGHTWEIGHT CONCRETE, EXPANDED SHALE AGGREGATE AT 3000 PSI COMPRESSIVE STRENGTH WITH 6x6, 10 x 10 SWG WELDED WIRE FABRIC ON COMPOSITE 1 1/2" DEEP GALVANIZED 22 GAUGE FLUTED DECKING - ASSEMBLY EQUAL TO UL TYPE D925 CONSTRUCTION (1 HOUR RATING)



RATED ASSEMBLY @ MAIN BUILDING ROOF (11)

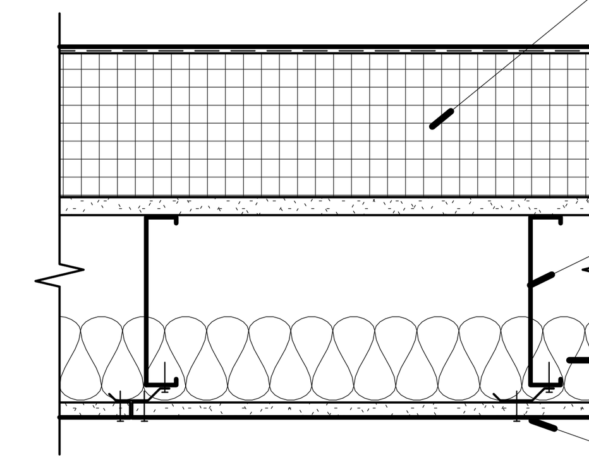
PER IBC 2018 SECTION 722.6.2(1) ROOF ASSEMBLY PROVIDES 1 HOUR RATING BY USE OF INDIVIDUAL COMPONENTS MEETING THE FOLLOWING:

A: 15/32" WOOD STRUCTURAL DECKING (TOP STRUCTURAL MEMBRANE)
B: WOOD JOIST FRAMING AT 16" O/C = 10 MINUTES
C: 1 LAYER 5/8" TYPE X GYPSUM BOARD MEMBRANE = 30 MINUTES
D: 1 LAYER 5/8" TYPE X GYPSUM BOARD MEMBRANE = 30 MINUTES



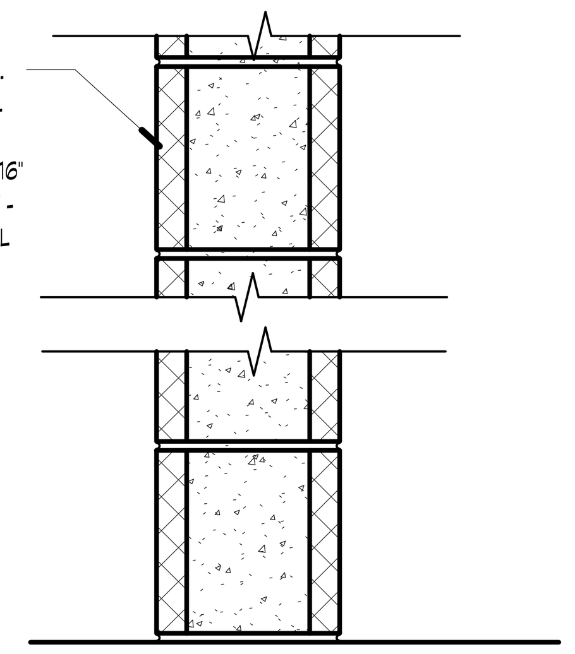
ELEVATOR SHAFT ROOF DETAIL (12)

FULLY ADHERED SINGLE-PLY MEMBRANE ROOF ON 2-3/4" THICK CELLULAR CONCRETE WITH No. 19 SWG GALVANIZED STEEL WIRE REINFORCING OVER 1-1/2" DEEP GALVANIZED NONCOMPOSITE ROOF DECK - ASSEMBLY EQUAL TO UL TYPE P938 CONSTRUCTION (1 HOUR RATING)



RATED ASSEMBLY @ BUSINESS OFFICE ROOF (13)

FULLY ADHERED SINGLE-PLY MEMBRANE ROOF ON R-30 6" DUPONT SYTROFOAM XPS FOAM RIGID INSULATION OVER 3/4" STRUCTURAL CEMENT-FIBER SHEATHING SUPPORTED BY 10" METAL JOISTS WITH 5/8" GYPSUM BOARD FINISH FASTENED TO JOISTS WITH 1/2" DEEP RESILIENT CHANNELS - ASSEMBLY EQUAL TO UL TYPE P562 CONSTRUCTION (1 HOUR RATING)



SECTION

ELEVATOR SHAFT WALL CONSTRUCTION (15)

8" CONCRETE MASONRY - SYSTEM EQUAL TO UL TYPE U901 (1 HOUR RATING REQUIRED)

1

Floor, Roof and Wall Assemblies

1 1/2" = 1'-0"

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)
400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

MA&A
March Adams & Associates
Consulting Engineers
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

STATE OF TENNESSEE NO. 00101243 9/03/2021

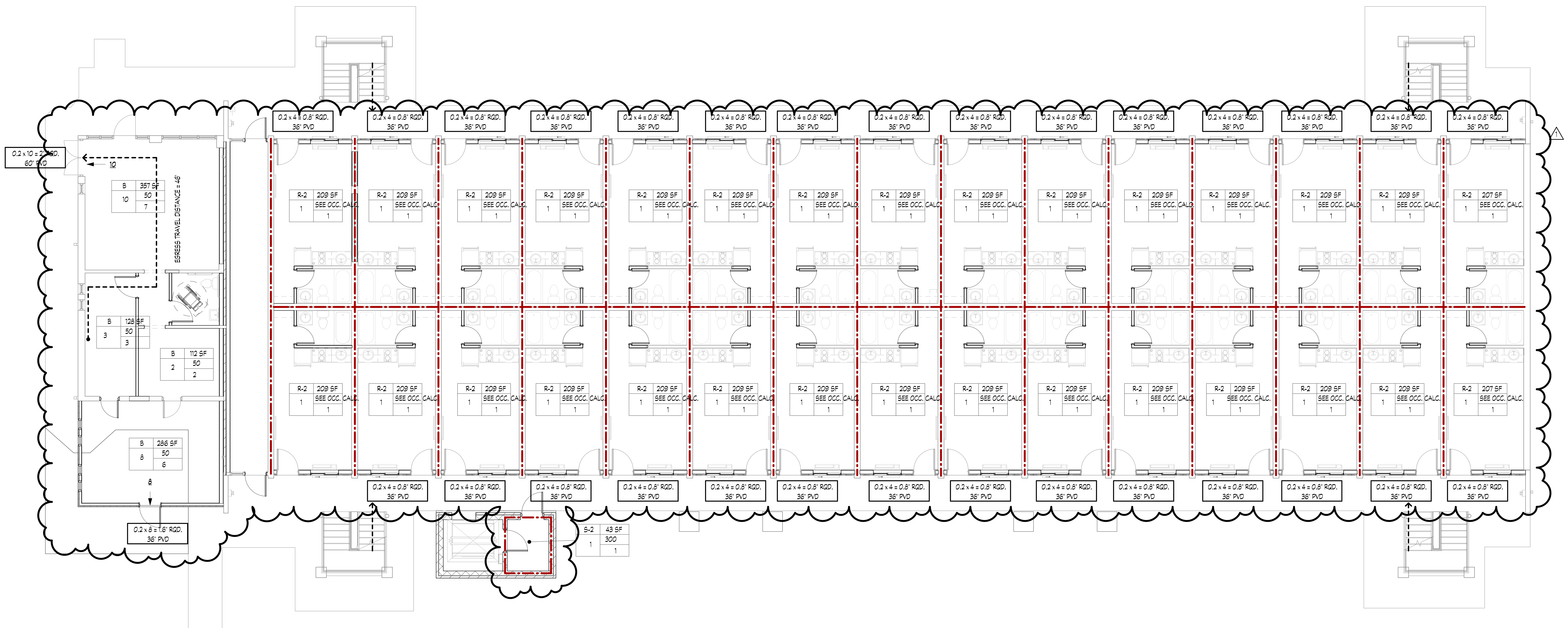
Garbee Architecture
PH: 423.364.2830

DRAWN:	Author
CHECKED:	Checker
JOB No.	21-008
DATE:	September 3, 2021

ALS-1.01

BUILDING - A

Large Scale Assembly Details



1 Level 1 Life/Safety Plan
1/8" = 1'-0"

LIFE SAFETY LEGEND

OCCUPANCY CALCULATION TAG

B	500
5	100
	5

- OCCUPANCY TYPE (B)
- AREA SQ. FT. (500)
- OCCUPANT LOAD FACTOR (100)
- OCCUPANT LOAD PER ROOM (5)
- OCCUPANTS EXITING THROUGH ROOM (5)

PLAN SYMBOLS

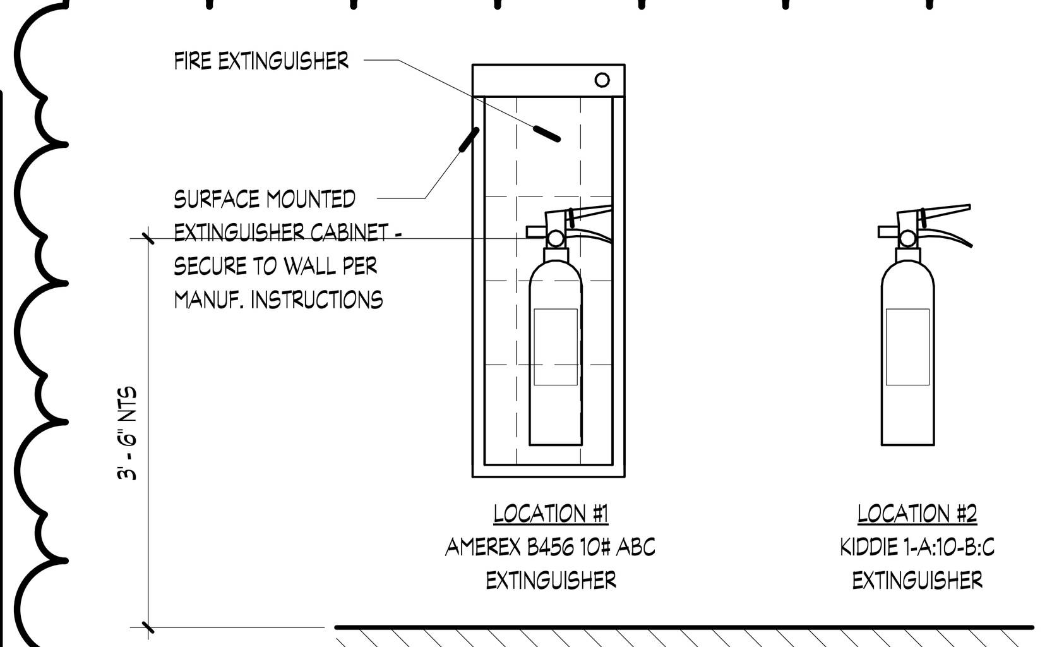
WALL MOUNTED FIRE EXTINGUISHER — FEC

18 — TOTAL OCCUPANTS EXITING INTERIOR SPACE

3 — WALL TYPE CONSTRUCTION TAG

0.2x4=0.8" RQD 36" PVD — EGRESS WIDTH PER EXIT REQUIRED; ACTUAL EGRESS WIDTH PER EXIT PROVIDED

1 HR RATED WALL CONSTRUCTION



FIRE EXTINGUISHER NOTES

EXTINGUISHER LOCATION #1
1. PROVIDE AMEREX MODEL: B456 10# ABC FIRE EXTINGUISHERS.
2. EXTERIOR BALCONY LOCATIONS AS INDICATED IN PLAN ON SHEETS ALS-1.1, ALS-1.2, ALS-1.3
3. MOUNT TO WALL WITH MEDIUM FIRETECH METAL EXTINGUISHER CABINET

EXTINGUISHER LOCATION #2
1. PROVIDE KIDDIE MODEL 1-A:10-B:C FIRE EXTINGUISHERS.
2. MOUNTED TO WALL ABOVE COUNTER ADJACENT TO KITCHEN COOKTOP AS INDICATED IN TYPICAL STUDIO UNIT DETAIL 2/A1.1
3. MOUNT PER MANUF. RECOMMENDED WALL BRACKET.

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

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P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

EDMUND G. GARBEE — STATE OF TENNESSEE — 9/03/2021

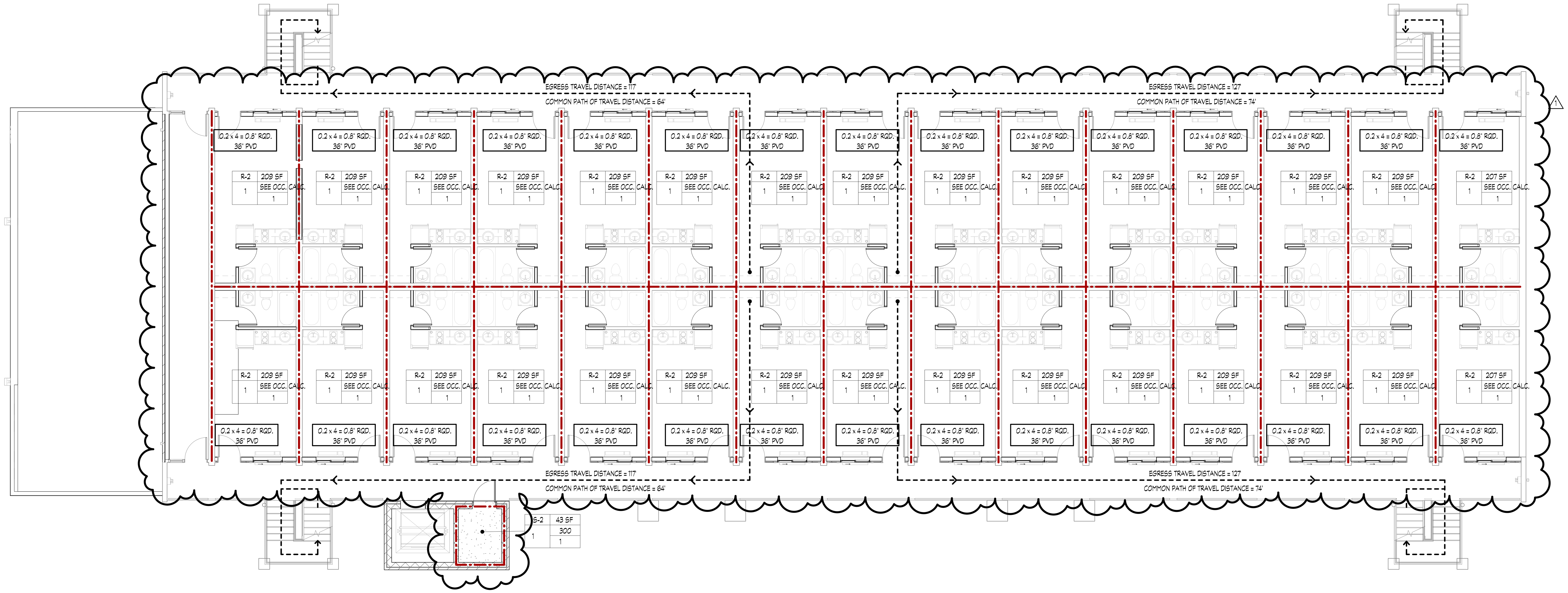
DRAWN:	EG
CHECKED:	EG
JOB No.	21-008
DATE:	September 3, 2021

ALS-1.1

BUILDING - A

Level 1 Life/Safety Plan

Garbee Architecture
PH: 423.364.2830



1 Level 2 Life/Safety Plan

1/8" = 1'-0"

LIFE SAFETY LEGEND

OCCUPANCY CALCULATION TAG

B	500
5	100
	5

- OCCUPANCY TYPE
- AREA SQ. FT.
- OCCUPANT LOAD FACTOR
- OCCUPANT LOAD PER ROOM
- OCCUPANTS EXITING THROUGH ROOM

PLAN SYMBOLS

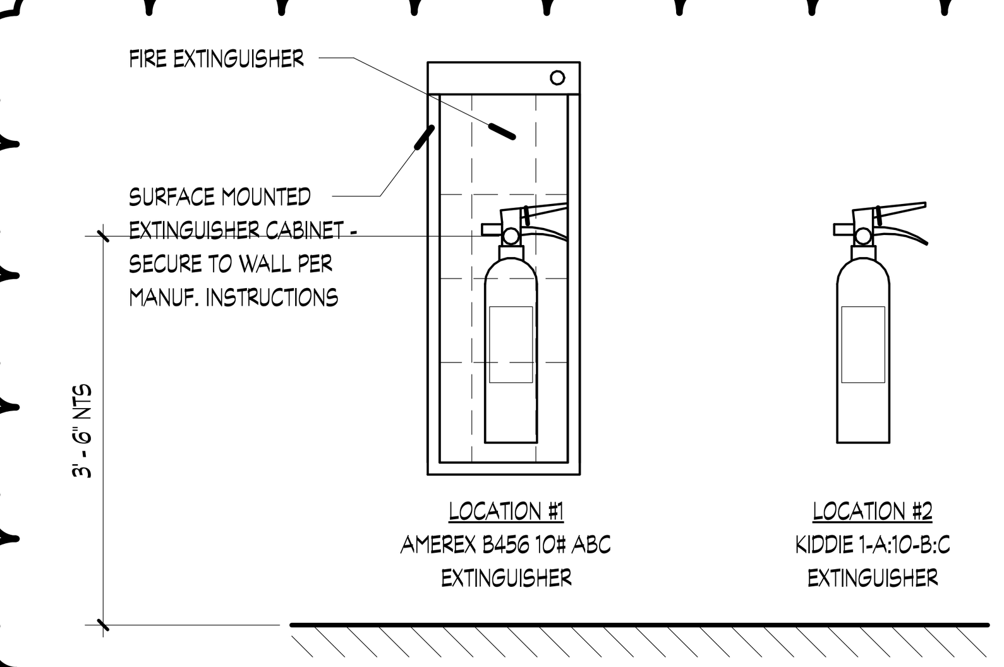
WALL MOUNTED FIRE EXTINGUISHER — FEC

18 — TOTAL OCCUPANTS EXITING INTERIOR SPACE

3 — WALL TYPE CONSTRUCTION TAG

0.2x4=0.8" RQD / 36" PVD — EGRESS WIDTH PER EXIT REQUIRED; ACTUAL EGRESS WIDTH PER EXIT PROVIDED

1 HR RATED WALL CONSTRUCTION



FIRE EXTINGUISHER NOTES

EXTINGUISHER LOCATION #1
1. PROVIDE AMEREX MODEL: B456 10# ABC FIRE EXTINGUISHERS.
2. EXTERIOR BALCONY LOCATIONS AS INDICATED IN PLAN ON SHEETS ALS-1.1, ALS-1.2, ALS-1.3
3. MOUNT TO WALL WITH MEDIUM FIRETECH METAL EXTINGUISHER CABINET

EXTINGUISHER LOCATION #2
1. PROVIDE KIDDIE MODEL 1-A:10-B:C FIRE EXTINGUISHERS.
2. MOUNTED TO WALL ABOVE COUNTER ADJACENT TO KITCHEN COOKTOP AS INDICATED IN TYPICAL STUDIO UNIT DETAIL 2/A1.1
3. MOUNT PER MANUF. RECOMMENDED WALL BRACKET.

Revisions

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KNOXVILLE, TN 37917

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PH: (423)698-6675

9/03/2021

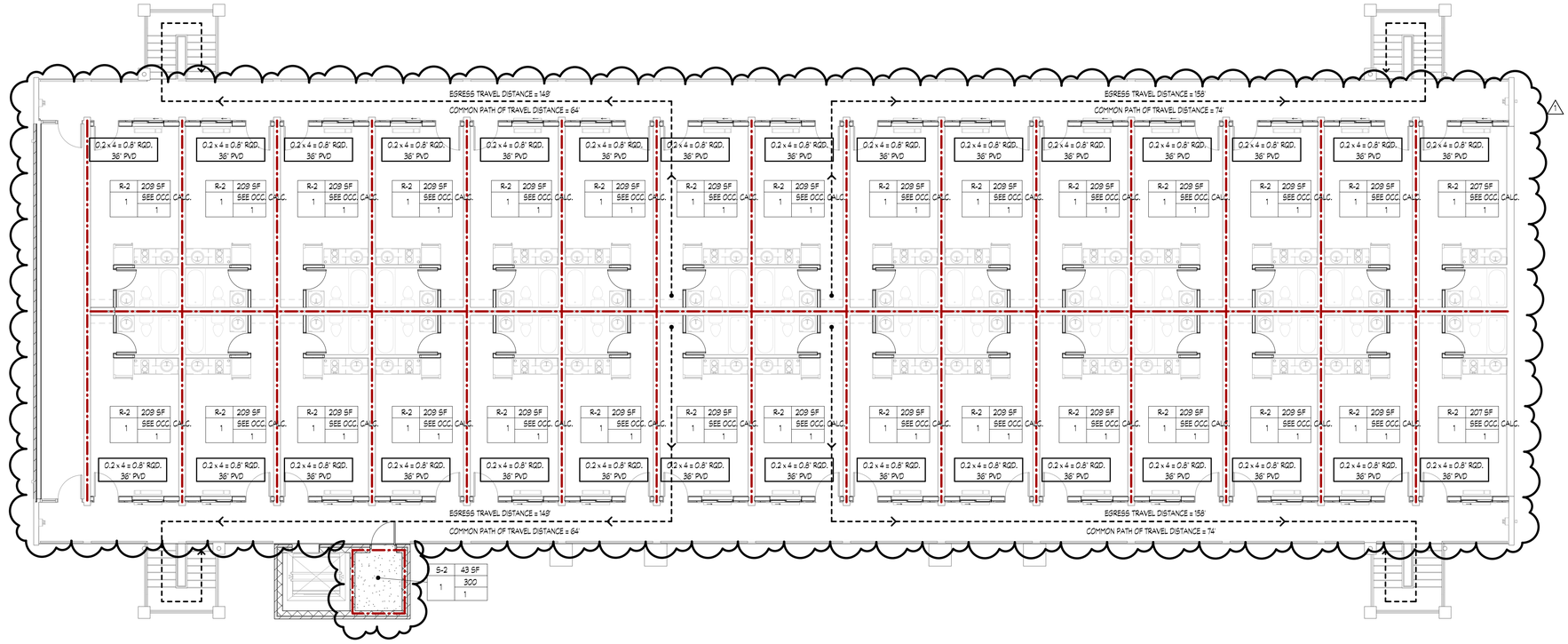
DRAWN:	EG
CHECKED:	EG
JOB No.	21-008
DATE:	September 3, 2021

ALS-1.2

BUILDING - A

Level 2 Life/Safety Plan

Garbee Architecture
PH: 423.364.2830

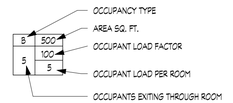


1 Level 3 Life/Safety Plan

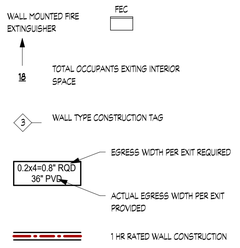
1/8" = 1'-0"

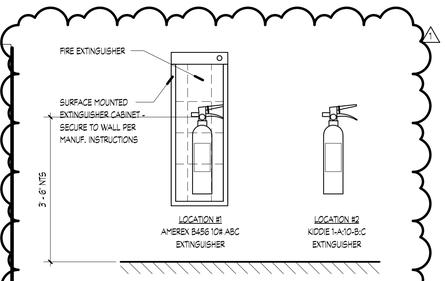
LIFE SAFETY LEGEND

OCCUPANCY CALCULATION TAG



PLAN SYMBOLS





FIRE EXTINGUISHER NOTES

EXTINGUISHER LOCATION #1

1. PROVIDE AMEREX MODEL: B456 10# ABC FIRE EXTINGUISHERS.
2. EXTERIOR BALCONY LOCATIONS AS INDICATED IN PLAN ON SHEETS ALS-1.1, ALS-1.2, ALS-1.3
3. MOUNT TO WALL WITH MEDIUM FIRETECH METAL EXTINGUISHER CABINET

EXTINGUISHER LOCATION #2

1. PROVIDE KIDDIE MODEL 1-A-10-B-C FIRE EXTINGUISHERS.
2. MOUNTED TO WALL ABOVE COUNTER ADJACENT TO KITCHEN COOKTOP AS INDICATED IN TYPICAL STUDIO UNIT DETAIL 2/A1.1
3. MOUNT PER MANUF. RECOMMENDED WALL BRACKET.

Revisions

#	REVISION	DATE
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KNOXVILLE INN RENOVATIONS

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EDMUND G. GARBEE — REGISTERED ARCHITECT — STATE OF TENNESSEE
9/03/2021

Garbee Architecture
PH: 423.364.2830

DRAWN:	EG
CHECKED:	EG
JOB No.	21-008
DATE:	September 3, 2021

ALS-1.3

BUILDING - A

Level 3 Life/Safety Plan

UL Product iQ™

BXUV.M518 - Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

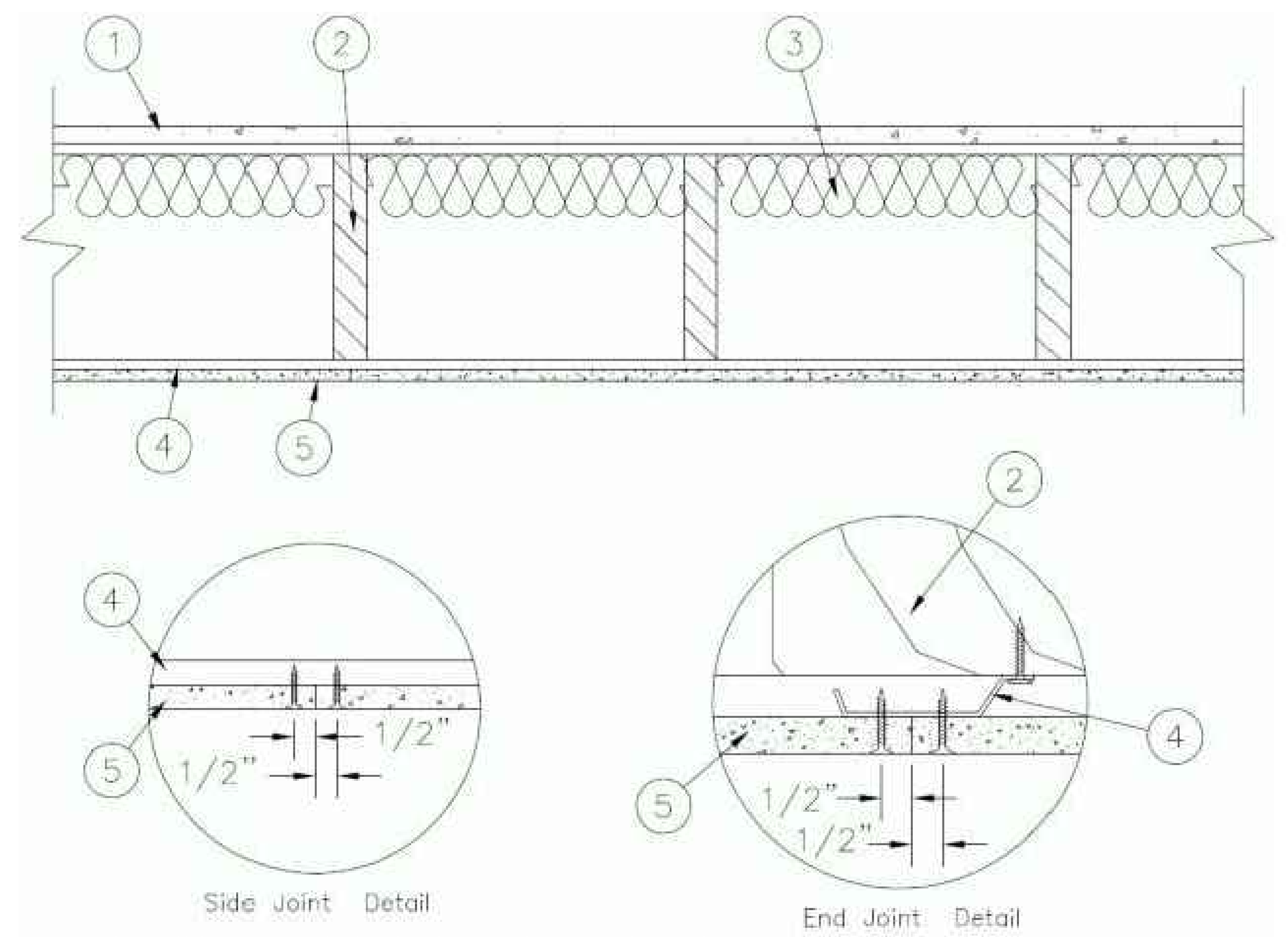
Design No. M518

August 18, 2020

Unrestrained Assembly Rating - 1 Hr.

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 Canada, a load restriction factor shall be used — See Guide 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. **Flooring System** — The flooring system shall consist of the following:

System No. 1

Subflooring — Nom 5/8 in. thick wood structural panels installed perpendicular to the joists with end joints staggered. Panels secured to joists with construction adhesive and No. 10d ringed shank nails, spaced 10 in. OC along each joist and 6 in. OC at the end joints.

Vapor Barrier - (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring - Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
MAXXON CORP — Types Maxxon Standard and Maxxon High Strength

Floor Mat Materials* - (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.
MAXXON CORP — Type Encapsulated Sound Mat.

Floor Mat Reinforcement — (Optional) Refer to manufacturer's instructions regarding minimum thickness of floor topping for use with floor mat reinforcement.

Metal Lath — (Optional) - 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd loose laid over the floor mat material.

Fiber Glass Reinforcement — (Optional) - 0.015 in. thick PVC coated non-woven fiberglass mesh, 0.368 lbs./sq. yd loose laid over the floor mat material.

System No. 2

Deleted

System No. 3

Subflooring — Nom 5/8 in. thick wood structural panels installed perpendicular to the joists with end joints staggered. Panels secured to joists with construction adhesive and No. 10d ringed shank nails, spaced 10 in. OC along each joist and 6 in. OC at the end joints.

Gypsum Board* — One layer of nom 5/8 in. thick, 4 ft wide gypsum board, installed with long dimension perpendicular to joists. Gypsum board secured with 1 in. long No. 6 Type W bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. The joints of the gypsum board are to be staggered a minimum of 12 inches from the joints of the subfloor.
GEORGIA-PACIFIC GYPSUM L L C — Type DS

Floor Mat Materials* — (As an alternate to the single layer gypsum board) - Floor mat material loose laid over the subfloor.
MAXXON CORP — Type Encapsulated Sound Mat.

Gypsum Board* — (For use when floor mat is used) Two layers of nom 5/8 in. thick, 4 ft wide gypsum board, installed with long dimension perpendicular to joists on top of the floor mat material. Gypsum board secured to each other with 1 in. long No. 6 Type G bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. The joints of the gypsum board are to be staggered a minimum of 12 inches in between layers and from the joints of the subfloor.
GEORGIA-PACIFIC GYPSUM L L C — Type DS

System No. 4

Subflooring — Nom 5/8 in. thick wood structural panels installed perpendicular to the joists with end joints staggered. Panels secured to joists with construction adhesive and No. 10d ringed shank nails, spaced 10 in. OC along each joist and 6 in. OC at the end joints.

Vapor Barrier — (Optional) — Commercial asphalt saturated felt, 0.030 in. thick.

Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring* — Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCOX) category for names of Classified Companies.

Floor Mat Materials* — (Optional) — Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
KEENE BUILDING PRODUCTS CO INC — Types Quiet Qurl 55/025 and Quiet Qurl 55/025 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
KEENE BUILDING PRODUCTS CO INC — Types Quiet Qurl 60/040 and Quiet Qurl 60/040 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.
KEENE BUILDING PRODUCTS CO INC — Types Quiet Qurl 65/075, Quiet Qurl 65/075 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
KEENE BUILDING PRODUCTS CO INC — Types Quiet Qurl 52/013 and Quiet Qurl 52/013 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/4 in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
KEENE BUILDING PRODUCTS CO INC — Types Quiet Qurl 55/025 MT and Quiet Qurl 55/025 N MT

System No. 5

Subflooring — Nom 5/8 in. thick wood structural panels installed perpendicular to the joists with end joints staggered. Panels secured to joists with construction adhesive and No. 10d ringed shank nails, spaced 10 in. OC along each joist and 6 in. OC at the end joints.

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture, having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
DEPENDABLE LLC — Types GSL M3.4, GSL K2.6 and GSL RH

Floor Mat Materials* — (Optional) — Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
KEENE BUILDING PRODUCTS CO INC — Types Quiet Qurl 55/025 and Quiet Qurl 55/025 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
KEENE BUILDING PRODUCTS CO INC — Types Quiet Qurl 60/040 and Quiet Qurl 60/040 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.
KEENE BUILDING PRODUCTS CO INC — Types Quiet Qurl 65/075, Quiet Qurl 65/075 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
KEENE BUILDING PRODUCTS CO INC — Types Quiet Qurl 52/013 and Quiet Qurl 52/013 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/4 in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
KEENE BUILDING PRODUCTS CO INC — Types Quiet Qurl 55/025 MT and Quiet Qurl 55/025 N MT

System No. 6

Subflooring — Nom 5/8 in. thick wood structural panels installed perpendicular to the joists with end joints staggered. Panels secured to joists with construction adhesive and No. 10d ringed shank nails, spaced 10 in. OC along each joist and 6 in. OC at the end joints.

Finish Flooring* — Floor Topping Materials — Min 3/4 in. to 1-1/2 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance with a minimum compressive strength of 1500 psi.
See **Floor- and Roof-Topping Mixtures** (CCOX) category for names of Classified Companies.

Floor Mat Materials* — (Optional) — Floor mat material nom 1/8 in. to 3/4 in. thick. Loose laid over the subfloor. When used, Acousti-flor CSM (crack suppression mat) is loose laid over the floor mat material. Floor topping material thickness is dependent on thickness of floor mat used.
WALFLOR INDUSTRIES INC — Type Acousti-flor, Acousti-flor CSM. Floor topping thickness depends on products used as follows:

Acousti-flor (1/8 in. thick) - Floor topping thickness shall be a minimum of 3/4 in.

Acousti-flor (1/4 in. thick) - Floor topping thickness shall be a minimum of 1 in.

Acousti-flor (3/8 in. thick) - Floor topping thickness shall be a minimum of 1 in.

Acousti-flor (3/4 in. thick) - Floor topping thickness shall be a minimum of 1-1/2 in.

Metal Lath — (Optional) — Expanded steel diamond mesh, 2.5 lb / sq yd loose laid over floor mat material.

Fiberglass Mesh Reinforcement — (Optional) — Coated non-woven glass fiber mesh grid loose laid over floor mat material.

System No. 7

Subflooring — Nom 5/8 in. thick wood structural panels installed perpendicular to the joists with end joints staggered. Panels secured to joists with construction adhesive and No. 10d ringed shank nails, spaced 10 in. OC along each joist and 6 in. OC at the end joints.

Finish Flooring - Floor Topping Mixture* — Min 1 in. thickness of floor topping mixture having a min compressive strength of 4500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
SIKA DEUTSCHLAND GMBH — Type SCHONOX AP Rapid Plus

System No. 8

Subflooring — Nom 5/8 in. thick wood structural panels installed perpendicular to the joists with end joints staggered. Panels secured to joists with construction adhesive and No. 10d ringed shank nails, spaced 10 in. OC along each joist and 6 in. OC at the end joints.

Vapor Barrier — (Optional) - Commercial asphalt saturated felt, 0.030 in. thick.

Vapor Barrier — (Optional) - Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring - Floor Topping Mixture* — Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCOX) category for names of Classified Companies.

Floor Mat Materials* — (Optional, Not Shown) - Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.
LOW & BONAR INC — EnkaSonic® by Colbond a member of the Low & Bonar group Types 125, 250, 250 Plus, 400, 400 Plus, 750 and 750 Plus.

Floor Mat Reinforcement — (Optional) - Refer to manufacturer's instructions regarding minimum thickness of floor topping for use with floor mat reinforcement.

Metal Lath — (Optional) — Expanded steel diamond mesh, 2.5 lb / sq yd loose laid over floor mat material.

Fiberglass Mesh Reinforcement — (Optional) — Coated non-woven glass fiber mesh grid loose laid over floor mat material.

2. **Wood Joists** — 2 by 10 in., spaced 16 in. OC.

3. **Batts and Blankets*** — Glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. Insulation shall be a max of 3-1/2 in. thick and shall be secured against the underside of the subflooring with staples at 12 in. OC.

4. **Resilient Channels** — Nom 1/2 in. deep by 2-3/8 in. wide at the base and 1-3/8 in. wide at the face, formed from 0.020 in. thick galv steel. Installed perpendicular to the wood joists, spaced a max of 16 in. OC. Channel splices overlapped 4 in. Channels secured to each truss with 1-1/4 in. long Type S screws.

4A. **Steel Framing Members*** — (Optional, Not Shown) — As an alternate to Item 4.

a. **Furring Channels** — Formed of No. 25 MSG galv steel, nominal 2-1/2 in. wide by 7/8 in. deep, spaced 16 in. OC, perpendicular to the joists. Channels secured to Cold Rolled Channels at every intersection with a 3/4 in. TEK screw through each furring channel leg. Ends of adjoining channels overlapped 12 in. and fastened together with two double strand No. 18 SWG galv steel wire ties, one at each end of overlap, or with two 3/4 in. TEK screws in each leg of the overlap section. Two furring channels positioned 3 in. OC, 1-1/2 in. on each side of gypsum board (Item 7) end joints, each extending a min of 6 in. beyond both side edges of the board.

b. **Cold Rolled Channels** — 1-1/2 in. by 1/2 in., formed from No. 16 ga. galv steel, positioned vertically and parallel to joists, friction-fitted into the channel caddy on the Steel Framing Members (Item 4Ac) and secured with two 3/4 in. TEK screws. Adjoining lengths of cold rolled channels lapped min. 12 in. and secured along bottom legs with four 3/4 in. TEK screws and wire-tied together with two double strand 18 SWG galv steel wire ties, one at each end of overlap.

c. **Steel Framing Members*** — Spaced 48 in. OC. max along joist, and secured to the joist on alternating joists with two, #10 x 1-1/2 in. screws through mounting holes on the hanger bracket.
PAC INTERNATIONAL L L C — Type RSIC-SI-CRC EZ Clip

4B. **Steel Framing Members*** — (Optional, Not Shown) — As an alternate to Item 4.

a. **Furring Channels** — Formed of No. 25 MSG galv steel, nominal 2-1/2 in. wide by 7/8 in. deep, spaced 16 in. OC perpendicular to joists and friction fit into Steel Framing Members (Item 4Bb). Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap or with two TEK screws along each leg of the 6 in. overlap. Two furring channels positioned 6 in. OC, 3 in. on each side of gypsum board (Item 5) end joints. Butt joint channels held in place by strong back channels placed upside down, on top of, and running perpendicular to primary furring channels, extending 6 in. longer than length of gypsum side joint. Strong back channels spaced maximum 48 in. OC. Strong back channels secured to every intersection of primary furring channels with four 7/16 in. pan head screws, two along each of the legs at intersections. Butt joint channels run perpendicular to strong back channels and shall be minimum 6 in. longer than length of joint, secured to strong back channels with 7/16 in. pan head screws, two along each of the legs at intersection with strong back channels.

Revisions		
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STATE OF TENNESSEE
NO. 00101243
9/03/2021

Garbee Architecture
PH: 423.364.2830

DRAWN:	EG
CHECKED:	EG
JOB No.	21-008
DATE:	SEPTEMBER 3, 2021

ALS-1.4

BUILDING - A

UL Detail M518

b. **Steel Framing Members* —** Used to attach furring channels (Item 4Ba) to joists. Clips spaced 48 in. OC and secured along joist webs at each furring channel intersection with min. 3/4 in. long self-drilling #10 x 1-1/2 in. screws through each of the provided hole locations. Furring channels are friction fitted into clips.
PAC INTERNATIONAL L L C — Type RSIC-SI-1 Ultra

4C. **Steel Framing Members* —** (Not Shown) As an alternate to Item 4, furring channels and Steel Framing Members* as described below:

a. **Furring Channels —** Formed of No. 25 MSG galv steel, 2-9/16 in. wide by 7/8 in. deep, spaced 16 in. OC perpendicular to joists. Channels secured to joists as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap.

b. **Steel Framing Members* —** Used to attach furring channels (Item a) to joists (Item 2). Clips spaced 48 in. OC. RSIC-1 clips secured to joists with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clips for use with 2-9/16 in. wide furring channels. Adjoining channels are overlapped as described in Item a. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel.
PAC INTERNATIONAL L L C — Type RSIC-1

4D. **Steel Framing Members* —** (Optional, Not Shown) — Used as an alternate method to attach resilient channels to structural members. A resilient sound isolation accessory shall be used at each attachment point of the resilient channels and spaced max 24 in. O.C. Channel ends butted and centered under the structural members and attached with one accessory at each end. Additional accessories used to hold resilient channels that support the gypsum board end joints. The accessory envelops the mounting edge of the resilient channel. The accessory and resilient channel are fastened to the structural members with the screws supplied with the accessory and per the accessory manufacturer's installation instructions. Gypsum Board butt joints staggered minimum 24 in. OC and Gypsum Board screws spaced 8 in. OC (in lieu of 12 in.) when used.
PAC INTERNATIONAL L L C — Types RC-1 Boost

5. **Gypsum Board* —** 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 12 in. OC in the field and 6 in. OC along the butt joints. Screws located a min of 1/2 in. from side and end joints. Butted end joints shall be staggered min. 9 ft 4 in. within the assembly.
When **Steel Framing Members** (Item 4A) are used, nom 5/8 in. thick, 4 ft wide gypsum board, installed as described in Item 5. Adjacent butt joints staggered minimum 48 in. OC.

When **Steel Framing Members** (Item 4B) are used, nom 5/8 in. thick, 4 ft wide gypsum board, installed as described in Item 5. Butt joints staggered minimum 24 in. OC.

When **Steel Framing Members** (Item 4C) are used, gypsum panels installed with long dimensions perpendicular to furring channels. Panels attached to the furring channels using 1 in. long Type S bugle-head steel screws spaced 8 in. OC along butted end joints and in the field of the panel. Butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. Each end of each gypsum panel shall be supported by a single length of furring channel equal to the width of the gypsum panel plus 6 in. on each end. The two support furring channels shall be spaced approximately 3-1/2 in. OC, and be attached with one clip at each end of the channel.

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, TG-C

6. **Finishing System — —** (Not shown) — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads. Nom 2 in. wide paper tape embedded in first layer of compound over all joints.

ALTERNATE CONSTRUCTION

3. **Batts and Blankets* —** (Optional) - Glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. Insulation shall be a max of 3-1/2 in. thick and shall be secured against the underside of the subflooring with staples spaced 12 in. OC.

3A. **Loose Fill Material* —** (Optional) - As an alternate to Item 4 — For use with resilient channels only, not for use when gypsum board is directly attached to joists. Max 3-1/2 in. thickness of loose fill material bearing the UL Classification Marking for Surface Burning Characteristics, fitted in the concealed space, draped over the resilient channel/gypsum board ceiling membrane when resilient channel attachment is modified as specified in Item 5. The finished rating when loose fill material is used has not been determined.

4. **Resilient Channels —** (Optional) - Formed from min 25 MSG galv steel spaced max 24 in. OC perpendicular to joists. When Loose Fill Material* is used, channels spaced a maximum 12 in. OC. Channels secured to each joist with min. 1-1/4 in. long, No. 8 steel screws. Channel ends butted and centered under the joists and attached to the joists with one screw at each end. Additional resilient channels positioned so as to coincide with end joints of gypsum board as shown in the above illustration. Additional channels shall extend min 3 in. beyond each side edge of board.

4A. **Framing Members* —** (Optional) - Used as an alternate method to attach resilient channels to joists (Item 2). A resilient sound isolation accessory shall be used at each attachment point of the resilient channels and spaced max 16 in. O.C. Channel ends butted and centered under the joists and attached to the joists with one accessory at each end. Additional accessories used to hold resilient channels that support the gypsum board end joints, as described in Item 5. The accessory envelops the mounting edge of the resilient channel. The accessory and resilient channel are fastened to the joists with the screws supplied with the accessory and per the accessory manufacturer's installation instructions.
PAC INTERNATIONAL L L C — Types RC-1 Boost, RC Boost Deluxe C-D

5. **Gypsum Board* —** (For use with resilient channels) - Nom 5/8 in. thick, 48 in. wide gypsum board. Gypsum board installed with long dimension perpendicular to resilient channels and side edges located between joists. Secured with 1 in. bugle head, high-low thread steel screws spaced max 8 in. OC. End joints of gypsum board similarly fastened to additional resilient channels positioned at end joint locations. Screws shall be spaced 2 in. from end joints and 1 in. from side joints. Adjacent end joints staggered min 24 in.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type C

5A. **Gypsum Board* —** (As an alternate to Item 5) - (For use with resilient channels) - Nom 3/4 in. thick, 48 in. wide gypsum board. Gypsum board installed with long dimension perpendicular to resilient channels and side edges located between joists. Secured with 1-1/8 in. bugle head, high-low thread steel screws spaced max 8 in. OC. End joints of gypsum board similarly fastened to additional resilient channels positioned at end joint locations. Screws shall be spaced 2 in. from end joints and 1 in. from side joints. Adjacent end joints staggered min 24 in.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-13

5B. **Gypsum Board* —** (As an alternate to Item 5, For use when directly attached to joists) -Not Shown - Nom 5/8 in. thick, 48 in. wide gypsum board, installed with long dimension perpendicular to joists. Gypsum board secured with 1-7/8 in. long, 6d cement coated nails spaced 6 in. OC.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type C

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

Last Updated on 2020-08-18

Revisions

#	REVISION	DATE

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)

400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

MA &A
March Adams & Associates
Consulting Engineers

310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

9/03/2021

Garbee Architecture
PH: 423.364.2830

DRAWN:	EG
CHECKED:	EG
JOB No.	21-008
DATE:	SEPTEMBER 3, 2021

ALS-1.5

BUILDING - A

UL Detail
M518

UL Product iQ™

BXUV.U341 - Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. U341

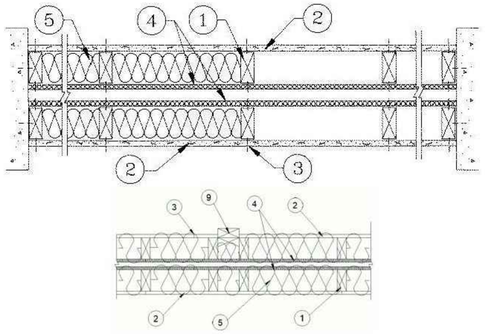
September 23, 2020

Bearing Wall Rating — 1 Hr.

Finish Rating — Min 20 min.

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 Canada, a load restriction factor shall be used — See Guide 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.**



HORIZONTAL SECTION

1. **Wood Studs —** Nom 2 by 4 in., spaced 24 in. OC max. Cross braced at mid-height and effectively firestopped at top and bottom of wall. No min. air space between stud rows except to accommodate attachment of sheathing, where required. See items 4 and 5.

2. **Gypsum Board* — Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. L501, G512 or U305.** Nom 5/8 in. thick 4 ft wide, Gypsum board applied horizontally or vertically, unless specified below, and nailed to studs and bearing plates 7 in. OC with 6d cement coated nails, 1-7/8 in. long, 0.0915 in. shank diam and 1/4 in. diam head. As an alternate, No. 6 bugle head drywall screws, 1-7/8 in. long, may be substituted for the 6d cement coated nails.
When **Steel Framing Members*** (Item 6 or any alternate clips) are used, wallboard attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC.

When used in widths other than 48 in., gypsum board to be installed horizontally.

AMERICAN GYPSUM CO (View Classification) — CKNX.R14196

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO (View Classification) — CKNX.R19374

CABOT MANUFACTURING ULC (View Classification) — CKNX.R25370

CERTAINTEED GYPSUM INC (View Classification) — CKNX.R3660

CGC INC (View Classification) — CKNX.R19751

CERTAINTEED GYPSUM INC (View Classification) — CKNX.R18482

GEORGIA-PACIFIC GYPSUM L L C (View Classification) — CKNX.R2717

LOADMASTER SYSTEMS INC (View Classification) — CKNX.R11809

NATIONAL GYPSUM CO (View Classification) — CKNX.R3501

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM (View Classification) — CKNX.R7094

PANEL REY S A (View Classification) — CKNX.R21796

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD (View Classification) — CKNX.R19262

THAI GYPSUM PRODUCTS PCL (View Classification) — CKNX.R27517

UNITED STATES GYPSUM CO (View Classification) — CKNX.R1319

USG BORAL DRYWALL SFZ LLC (View Classification) — CKNX.R38438

USG BORAL DRYWALL SFZ LLC (View Classification) — CKNX.R38438

USG MEXICO S A DE C V (View Classification) — CKNX.R16089

2A. **Gypsum Board* —** (As an alternate to Item 2, not shown) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically to studs and bearing plates on one side of the assembly with 1-5/8 in. long Type S screws spaced 12 in. OC at perimeter of panels and 8 in. OC in the field. Horizontal joints of vertically applied panels need not be backed by studs. Panel joints covered with paper tape and two layers of joint compound. Screwheads covered with two layers of joint compound. Batts and Blankets placed in stud cavity as described in Item 5C. Not evaluated for use with Steel Framing Members, Furring Channels or Fiber, Sprayed.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-530 (finish rating 23 min).

2B. **Gypsum Board* —** (As an alternate to Item 2, not shown) — Any 5/8 in. thick gypsum panels that are eligible for use in Design Nos. L501, G512 or U305, supplied by the Classified companies listed below shown in the **Gypsum Board*** (CKNX) category. Applied horizontally or vertically and attached to studs and bearing plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths other than 48 in., gypsum board to be installed horizontally.
UNITED STATES GYPSUM CO

USG BORAL DRYWALL SFZ LLC

USG MEXICO S A DE C V

2C. **Gypsum Board* —** (As an alternate to Item 2, Not Shown) — 5/8 in. thick gypsum panels applied horizontally or vertically and attached to studs and bearing plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths other than 48 in., gypsum board to be installed horizontally.
AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C, LightRoc

CERTAINTEED GYPSUM INC — Type C, Type X or Type X-1

NATIONAL GYPSUM CO — Type FSK, Type FSK-G, Type FSW, Type FSW-3, Type FSW-5, Type FSW-G, Type FSK-C, Type FSW-C, Type FSMR-C, Type FSW-6, Type FSL

THAI GYPSUM PRODUCTS PCL — Type C or Type X

2D. **Gypsum Board* —** (As an alternate to Items 2, 2A, 2B and 2C) — 5/8 in. thick gypsum panels, with square edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last 2 screws 1 and 4 in. from edge of board or nailed as described in Item 2. When used in widths of other than 48 in., gypsum boards are to be installed horizontally.
GEORGIA-PACIFIC GYPSUM L L C — GreenGlass Type X, Type DGG.

2E. **Gypsum Board* —** (As an alternate to Items 2 through 2D) — 5/8 in. thick, 4 ft. wide, paper surfaced applied vertically only and secured as described in Item 2.
GEORGIA-PACIFIC GYPSUM L L C — Type X ComfortGuard Sound Deadening Gypsum Board.

2F. **Gypsum Board* —** (As an alternate to Items 2 through 2E) - Installed as described in Item 2. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically only and fastened to the studs and plates with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 1/4 in. diam heads, 7 in. OC. Not for use with item #6.
NATIONAL GYPSUM CO — Type SBWB

2G. **Gypsum Board* —** (As an alternate to Items 2 through 2F) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 2.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types QuietRock ES.

2H. **Gypsum Board* —** (As an alternate to Items 2 through 2G) — Installed as described in Item 2. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically or horizontally fastened to the studs and plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board.
CERTAINTEED GYPSUM INC — Type SilentFX

2I. **Wall and Partition Facings and Accessories* —** (As an alternate to Items 2 through 2H) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 2.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527.

2J. **Gypsum Board* —** (As an alternate to 5/8 in. Type FSW in Item 2) — 2 layers nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Horizontal joints on the same side need not be staggered. Inner layer attached with fasteners, as described in item 2, spaced 24 in. OC. Outer layer attached per Item 2.
NATIONAL GYPSUM CO — Type FSW.

2K. **Gypsum Board* —** (As an alternate to Item 2) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 10 in. OC with the last two screws 4 and 1 in. from the edges of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally.
CERTAINTEED GYPSUM INC — Type LGFC6A (finish rating 21 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX

3. **Joints and Nailheads —** Gypsum board joints of outer layer covered with tape and joint compound. Nail heads of outer layer covered with joint compound. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with joints reinforced with paper tape.

4. **Sheathing —** (Optional) — Septum may be sheathed with min 7/16 in. thick wood structural panels min grade "C-D" or "Sheathing" or min 1/2 in. thick **Mineral and Fiber Boards***.
See **Mineral and Fiber Boards** (CERZ) category for names of Classified companies.

5. **Batts and Blankets* —** 3-1/2 in. max thickness glass or mineral fiber batt insulation. **Optional** when sheathing (Item 4) is used on both halves of wall.
See **Batts and Blankets** (BZJZ) category for list of Classified companies.

5A. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 5) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft^3. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft^3, in accordance with the application instructions supplied with the product.
U S GREENFIBER L L C — INS735, INS745 and INS750LD for use with wet or dry application. INS515LD, INS541LD, INS735, INS765LD, and INS773LD are to be used for dry application only.

5B. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 5) when Sheathing (Item 4) is used on both halves of wall - Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.
NU-WOOL CO INC — Cellulose Insulation

5C. **Batts and Blankets* —** (Required for use with Wall and Partition Facings and Accessories, Item 2A. Use of Sheathing, Item 4, does not nullify requirement of Item 5C for use with Item 2A) — Glass fiber insulation, nom 3-1/2 in. thick, min. density of 0.80 pcf, with a flame spread of 25 or less and a smoke developed of 50 or less, friction-fitted to completely fill the stud cavities. See Batts and Blankets Category (BKNV) for names of manufacturers.

5D. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 5) and Item 5A when Sheathing (Item 4) is used on both halves of wall - Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft^3.
INTERNATIONAL CELLULOSE CORP — Celbar-RL

5E. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 5) - Spray-applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. To facilitate the installation of the material, any thin, woven or non-woven netting may be attached by any means possible to the outer face the studs. The material shall reach equilibrium moisture content before the installation of materials on either face of the studs. The minimum dry density shall be 5.79 lbs/ft^3.
APPLEGATE HOLDINGS L L C — Applegate Advanced Stabilized Cellulose Insulation

6. **Steel Framing Members* —** (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:
A. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Wallboard attached to furring channels as described in Item 2.

B. **Steel Framing Members* —** Used to attach furring channels (Item a) to studs (Item 1) . Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.

PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75).

6A. **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 2.

b. **Steel Framing Members* —** Used to attach furring channels (Item a) to studs. Clips spaced 48 in. OC. Genie clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
PLITEQ INC — Type Genie Clip

6B. **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 2.

b. **Steel Framing Members* —** Used to attach furring channels (Item 6Ba) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

6C. **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:
A. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 6Cb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 2.

B. **Steel Framing Members* —** Used to attach furring channels (Item 6CA) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
REGUPOL AMERICA — Type SonusClip

6D. **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 6) — Resilient channels and Steel Framing Members as described below:
a. **Resilient Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 2.

b. **Steel Framing Members* —** Used to attach resilient channels (Item 6Da) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.
KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

Revisions

#	REVISION	DATE

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)

400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

March Adams & Associates
Consulting Engineers

310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

REGISTERED ARCHITECT RAYMOND G. GARBEE STATE OF TENNESSEE
9/03/2021

DRAWN:	EG
CHECKED:	EG
JOB No.	21-008
DATE:	SEPTEMBER 3, 2021

ALS-1.6

BUILDING - A

UL Detail U341

Garbee Architecture
PH: 423.364.2830

6E. **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 6) — Used as an alternate method to attach resilient channels to wall studs. A resilient sound isolation accessory shall be used at each attachment point of the resilient channels and spaced max 24 in. O.C. Channel ends butted and centered under the structural members and attached with one accessory at each end. Additional accessories used to hold resilient channels that support the gypsum board end joints. The accessory envelops the mounting edge of the resilient channel. The accessory and resilient channel are fastened to the structural members with the screws supplied with the accessory and per the accessory manufacturer's installation instructions.
PAC INTERNATIONAL L L C — Type RC-1 Boost

6F **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:

a **Furring Channels —** Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. or 1-1/2 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 2.

b **Steel Framing Members* —** Used to attach furring channels (Item 6Fa) to studs. Clips spaced maximum 48 in. OC. Clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips.

CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

7. **Wall and Partition Facings and Accessories* —** (Optional, Not shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the wood framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-500 and QR-510

8. **Mineral and Fiber Board* —** ((Optional, Not Shown) — For optional use as an additional layer on one or both sides of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to framing as described in Item 2. The required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.
HOMASOTE CO — Homasote Type 440-32

9. **Non-Bearing Wall Partition Intersection —** (Optional) — Two nominal 2 by 4 in. stud or nominal 2 by 6 in. stud nailed together with two 3in. long 10d nails spaced a max. 16 in. OC. vertically and fastened to one side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max 16 in. OC. vertically. Intersection between partition wood studs to be flush with the 2 by 4 in. studs. The wall partition wood studs are to be framed by with a second 2 by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Maximum one non-bearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.

(Optional, Not Shown) Alternate Construction For Use On One Side Of The Wall.

10. **Mineral and Fiber Board* —** For use with Items 10A-10D) —Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to framing with minimum 1-3/8 in. long ring shanked nails or 1-1/4 in. long Type W steel screws, spaced 12 in. OC along board edges and 24 in. OC in field of board along intermediate framing. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.
HOMASOTE CO — Homasote Type 440-32

10A. **Glass Fiber Insulation —** (For use with Item 10) — 3-1/2 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, placed to fill the interior of the wall. See Batts and Blankets (BKNV or BZJZ) categories for names of Classified companies.

10B. **Batts and Blankets* —** (As an alternate to Item 10B, For use with Item 10), 3 in. thick mineral wool batts, placed to fill interior of wall, attached to the 3-1/2 in. face of the studs with staples placed 24 in. OC.
THERMAFIBER INC — Type SAFB, SAFB FF

10C. **Adhesive —** (For use with Item 10) — Construction grade adhesive applied in vertical, serpentine, nominal 3/8 in. wide beads down the length of both vertical edges of Mineral and Fiber Board (Item 14A).

10D. **Gypsum Board* —** (For use with Item 10) — 5/8 in. thick, 4 ft wide, applied vertically over Mineral and Fiber Board (Item 14A) with vertical joints located anywhere over stud cavities. Secured to mineral and fiber boards with 1-1/2 in. Type G Screws spaced 8 in. OC along edges of each vertical joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 10). Secured to outermost studs and bearing plates with 2 in. long Type S screws spaced 8 in. OC. Gypsum Board joints covered with paper tape and joint compound. Screw heads covered with joint compound. Finish Rating 30 Min.
AMERICAN GYPSUM CO — Type AG-C

CERTAINTEED GYPSUM INC — Type C

CERTAINTEED GYPSUM INC — Type LGFC-C/A

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, TG-C

NATIONAL GYPSUM CO — Types FSK-C, FSW-C

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-C

PANEL REY S A — Type PRC

THAI GYPSUM PRODUCTS PCL — Type C

UNITED STATES GYPSUM CO — Type CTypes C, IP-X2, IPC-AR

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

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

Last Updated on 2020-09-23

Revisions

#	REVISION	DATE

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)
400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

MA &A
March Adams & Associates
Consulting Engineers
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

9/03/2021

Garbee Architecture
PH: 423.364.2830

DRAWN:	EG
CHECKED:	EG
JOB No.	21-008
DATE:	SEPTEMBER 3, 2021

ALS-1.7

BUILDING - A

UL Detail
U341

UL Product iQ™

BXUV.U356 - Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. U356

October 07, 2020

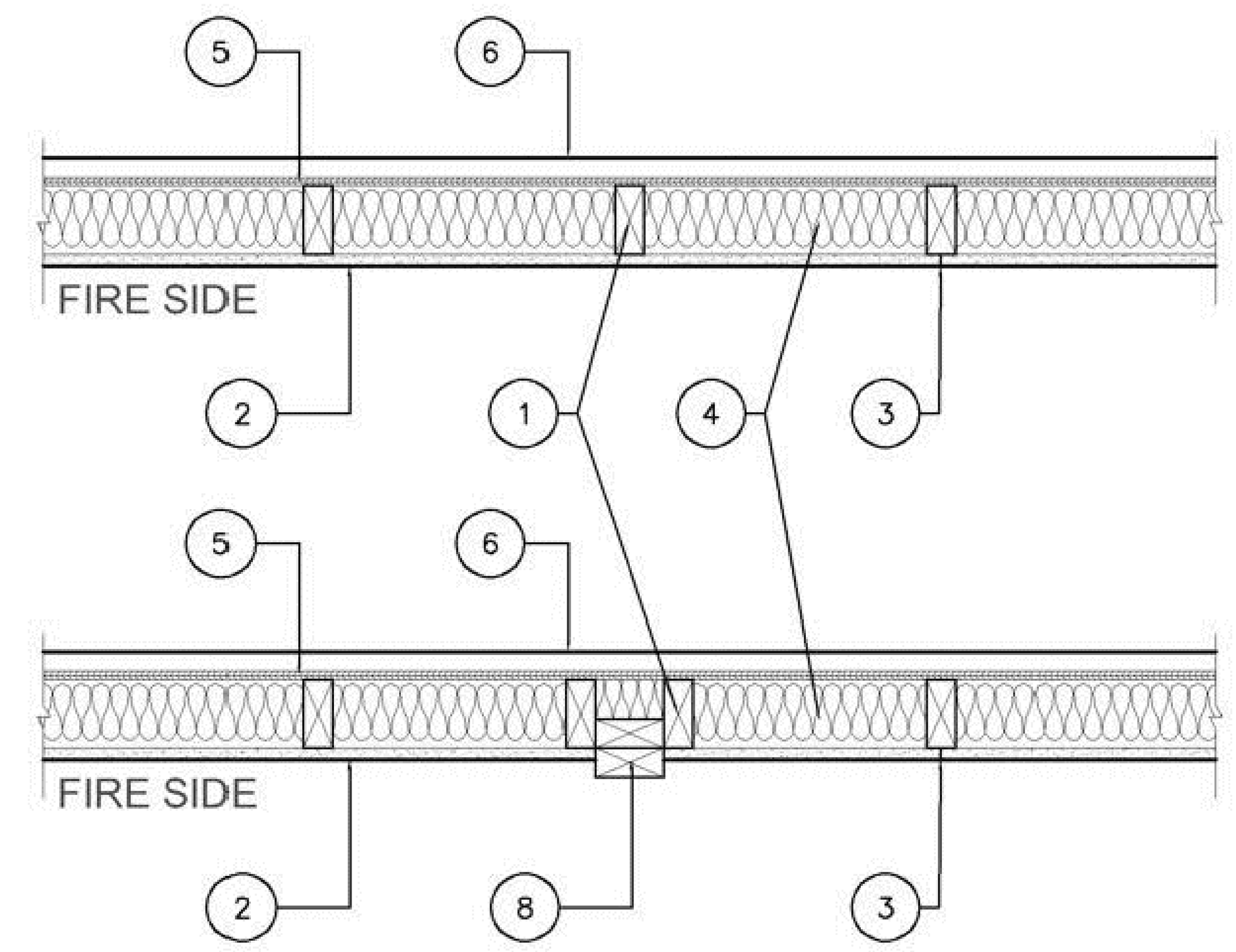
Bearing Wall Rating - 1 Hr Rating Exposed to Fire on Interior Face Only

Bearing Wall Rating — 1 Hr Rating Exposed to Fire on Exterior Face (See Item 6E)

Finish Rating — 23 Min or 25 Min (See Item 2C)

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 Canada, a load restriction factor shall be used — See Guide 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. **Wood Studs** — Nom 2 by 4 in. spaced 16 in. OC with two 2 by 4 in. top and one 2 by 4 in. bottom plates. Studs laterally-braced by wood structural panel sheathing (Item 5). When **Mineral and Fiber Boards*** (Item 5A) are considered as bracing for the studs, the load is restricted to 76% of allowable axial load. Walls effectively fire stopped at top and bottom of wall.

2. **Gypsum Board* — Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. L501, G512 or U305.** Nom 5/8 in. thick, 4 ft wide, applied vertically and nailed to studs and bearing plates 7 in. OC with 6d cement-coated nails, 1-7/8 in. long with 1/4 in. diam head.
When Item **Steel Framing Members*** (Item 7 or any alternate clips), is used, gypsum panels attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC.

When Item 7A **Steel Framing Members***, is used, two layers of gypsum panels attached to furring channels. Base layer attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC. Face layer attached to furring channels with 1-5/8 in. long Type S bugle-head steel screws spaced 12 in. OC. All joints in face layers staggered with joints in base layers.

AMERICAN GYPSUM CO (View Classification) — CKNX.R14196

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO (View Classification) — CKNX.R19374

CABOT MANUFACTURING ULC (View Classification) — CKNX.R25370

CERTAINTEED GYPSUM INC (View Classification) — CKNX.R3660

CGC INC (View Classification) — CKNX.R19751

CERTAINTEED GYPSUM INC (View Classification) — CKNX.R18482

GEORGIA-PACIFIC GYPSUM L L C (View Classification) — CKNX.R2717

LOADMASTER SYSTEMS INC (View Classification) — CKNX.R11809

NATIONAL GYPSUM CO (View Classification) — CKNX.R3501

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM (View Classification) — CKNX.R7094

PANEL REY S A (View Classification) — CKNX.R21796

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD (View Classification) — CKNX.R19262

THAI GYPSUM PRODUCTS PCL (View Classification) — CKNX.R27517

UNITED STATES GYPSUM CO (View Classification) — CKNX.R1319

USG BORAL DRYWALL SFZ LLC (View Classification) — CKNX.R38438

USG MEXICO S A DE C V (View Classification) — CKNX.R16089

2A. **Gypsum Board* —** (As an alternate to Item 2, Not Shown) — Any 5/8 in. thick 4 ft wide gypsum panels that are eligible for use in Design Nos. L501, G512 or U305, supplied by the Classified Companies listed below shown in the **Gypsum Board*** (CKNX) category. Applied vertically and attached to studs and bearing plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board.
CGC INC

UNITED STATES GYPSUM CO

USG BORAL DRYWALL SFZ LLC

USG MEXICO S A DE C V

2B. **Gypsum Board* —** (As an alternate to Item 2, Not Shown) — 5/8 in. thick 4 ft wide gypsum panels applied vertically and attached to studs and bearing plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board.

AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C, LightRoc

CABOT MANUFACTURING ULC — Type X, 5/8 Type X, Type Blueglass Exterior Sheathing

CERTAINTEED GYPSUM INC — Type C, Type X, Type X-1, Easi-Lite Type X-2

GEORGIA-PACIFIC GYPSUM L L C — Types X, Veneer Plaster Base-Type X, Water Rated-Type X, Sheathing Type-X, Soffit-Type X, Type X ComfortGuard Sound Deadening Gypsum Board.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types PG-11, PGS-WRS, PGI.

THAI GYPSUM PRODUCTS PCL — Type C or Type X

2C. **Gypsum Board* —** (As an alternate to Item 2, Not Shown) — For Use with Item 5A only - 5/8 in. thick 4 ft wide gypsum panels applied horizontally and attached to studs and bearing plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screws 1 in.and 4 in. from edges of board. Finish Rating is 25 min.
CABOT MANUFACTURING ULC — 5/8 Type X, Type Blueglass Exterior Sheathing

GEORGIA-PACIFIC GYPSUM L L C — Type X, Veneer Plaster Base-Type X, Water Rated-Type X, Sheathing Type-X, Soffit-Type X

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types PG-11, PGS-WRS, PGI

2D. **Gypsum Board* —** (As an alternate to Item 2) — Not to be used with item 7. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically only and fastened to the studs and plates with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 1/4 in. diam heads, 7 in. OC.
NATIONAL GYPSUM CO — Type SBWB

2E **Gypsum Board* —** (As an alternate to Items 2 through 2D) — Nominal 5/8 in. thick, 4 ft wide panels, secured as described in Item 2.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock ES.

2F. **Gypsum Board* —** (As an alternate to Item 2) — Not to be used with item 7. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically or horizontally and fastened to the studs and plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board.
CERTAINTEED GYPSUM INC — Type SilentFX

2G. **Wall and Partition Facings and Accessories* —** (As an alternate to Items 2 through 2F) — Nominal 5/8 in. thick, 4 ft wide panels, secured as described in Item 2.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527.

2H. **Gypsum Board* —** (As an alternate to Item 2) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 10 in. OC with the last two screws 4 and 1 in. from the edges of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally.

CERTAINTEED GYPSUM INC — Type LGFC6A (finish rating 21 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX

2I. **Gypsum Board* —** (As an alternate to Item 2) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths of other than 48 in., gypsum boards are to be installed horizontally.
AMERICAN GYPSUM CO — Types AGX-1 (finish rating 25 min.), M-Glass (finish rating 25 min.), AG-C (finish rating 25 min.), LightRoc (finish rating 25 min.)

NATIONAL GYPSUM CO — Type FSK, Type FSK-G, Type FSW, Type FSW-3, Type FSW-5, Type FSW-G, Type FSK-C, Type FSW-C, Type FSMR-C, Type FSW-6, Type FSL

2J. **Gypsum Board* —** (As an alternate to Item 2) - 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread steel screws spaced a max 8 in. OC with the last screw 1 in. from edge of board. When used in widths other than 48 in., gypsum boards are to be installed horizontally.
CERTAINTEED GYPSUM INC — Type C, Type X or Type X-1(finish rating 26 min), Easi-Lite Type X (finish rating 24 min), Easi-Lite Type X-2, Type EGRG or GlasRoc or GlasRoc Sheathing (finish rating 23 min)

3. **Joints and Fastener Heads —** (Not Shown) — Gypsum board joints covered with tape and joint compound. Fastener heads covered with joint compound.

4. **Batts and Blankets* —** Mineral fiber or glass fiber insulation, 3-1/2 in. thick, pressure fit to fill wall cavities between studs and plates. Mineral fiber insulation to be unfaced and to have a min density of 3 pcf. Glass fiber insulation to be faced with aluminum foil or kraft paper and to have a min density of 0.9 pcf (min R-13 thermal insulation rating).
See **Batts and Blankets*** (BKNV) Category in the Building Materials Directory and **Batts and Blankets*** (BZJZ) Category in the Fire Resistance Directory for names of Classified Companies.

4A. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 4) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft^3. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft^3, in accordance with the application instructions supplied with the product.
U S GREENFIBER L L C — INS735 and INS745 for use with wet or dry application. INS515LD, INS541LD, INS735, INS745, INS765LD, and INS773LD are to be used for dry application only.

4B. **Fiber, Sprayed* —** As an alternate to Item 4 and 4A — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 4.58 lb/ft^3.
NU-WOOL CO INC — Cellulose Insulation

4C. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 4) — Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft^3.
INTERNATIONAL CELLULOSE CORP — Celbar-RL

4D. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 4) — Spray applied, granulated mineral fiber material. The fiber is applied with adhesive, at a minimum density of 4.0 pcf, to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CCAZ).
AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus

5. **Wood Structural Panel Sheathing —** Min 7/16 in. thick, 4 ft wide wood structural panels, min grade "C-D" or "Sheathing". Installed with long dimension of sheet (strength axis) or face grain of plywood parallel with or perpendicular to studs. Vertical joints centered on studs. Horizontal joints backed with nom 2 by 4 in. wood blocking. Attached to studs on exterior side of wall with 6d cement coated box nails spaced 6 in. OC at perimeter of panels and 12 in. OC along interior studs.

5A. **Mineral and Fiber Boards* —** As an alternate to Item 5 - Min 1/2 in. thick, 4 ft wide sheathing, installed vertically to studs. Vertical joints centered on studs. Horizontal joints backed with nom 2 by 4 in. wood blocking. Attached to studs on exterior side of wall with 1-1/2 in. long galvanized roofing nails spaced 6 in. OC at perimeter of panels and 12 in. OC along interior studs. As an option a weather resistive barrier may be applied over the Mineral and Fiber Boards.

6. **Exterior Facings —** Installed in accordance with the manufacturer's installation instructions. One of the following exterior facings is to be applied over the sheathing:

A. **Vinyl Siding — Molded Plastic* —** Contoured rigid vinyl siding having a flame spread value of 20 or less.
See **Molded Plastic** (BTAT) category in the Building Materials Directory for names of manufacturers.

B. **Particle Board Siding —** Hardboard exterior sidings including patterned panel or lap siding.

C. **Wood Structural Panel or Lap Siding —** APA Rated Siding, Exterior, plywood, OSB or composite panels with veneer faces and structural wood core, per PS 1 or APA Standard PRP-108, including textured, rough sawn, medium density overlay, brushed, grooved and lap siding.

D. **Cementitious Stucco —** Portland cement or synthetic stucco systems with self-furring metal lath or adhesive base coat. Thickness from 3/8 to 3/4 in., depending on system.

E. **Brick Veneer —** Any type on nom 4 in. wide brick veneer. When brick veneer is used, the rating is applicable with exposure on either face. Brick veneer fastened with corrugated metal wall ties attached over sheathing to wood studs with 8d nail per tie: ties spaced not more than each sixth course of brick and max 32 in. OC horizontally. One in. air space provided between brick veneer and sheathing.

F. **Exterior Insulation and Finish System (EIFS) —** Nom 1 in. **Foamed Plastic*** insulation bearing the UL Classification Marking, attached over sheathing and finished with coating system, or Portland cement or synthetic stucco systems, in accordance with manufacturer's instructions. See **Foamed Plastic** (BRYX and CCVW) categories for names of Classified companies.

G. **Siding —** Aluminum or steel siding attached over sheathing to studs.

H. **Fiber-Cement Siding —** Fiber-cement exterior sidings including smooth and patterned panel or lap siding.

I. **Wall and Partition Facings and Accessories* —** Stone veneer is mortar bonded to a lath, scratch coat and water resistant barrier applied to sheathing, installed in accordance with the manufacturers installation instructions, and meeting the requirements of local code agencies.
ELDORADO STONE OPERATIONS L L C — Type Eldorado Stone

J. **Cementitious Backer Units —** 1/2 in. or 5/8 in., min. 32 in. wide.- Applied vertically or horizontally with vertical joints centered over studs. Fastened to studs and runners with cement board screws of adequate length to penetrate stud by a minimum 3/4 in., spaced a max of 8 in. OC. Horizontal joints need not be backed by framing. When Cementitious Backer Units are used, the rating is applicable with exposure on either face. Cementitious Backer Units for use as substrate for exterior finishes such as ceramic tile, slate, marble, natural stone, manufactured stone, thin brick, or Portland cement or synthetic stucco.

Garbee Architecture
PH: 423.364.2830

Revisions		
#	REVISION	DATE

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)

400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

MA&A
March Adams & Associates
Consulting Engineers

310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

9/03/2021

DRAWN: EG
CHECKED: EG
JOB No. 21-008
DATE: SEPTEMBER 3, 2021

ALS-1.8

BUILDING - A

UL Detail
U356

NATIONAL GYPSUM CO — Type PermaBase

6A. **Building Units* — As an alternate to Exterior Facing Item 6 —** Insulated steel panels, 12 through 42 in. wide. Attached over sheathing through retainer clips to studs or support steel with No. 14 hex head self-tapping screws located at each joint in the concealed lip of the units and spaced in accordance with the structural design requirements. KINGSPAN INSULATED PANELS INC — Types 200, 300, 400, 900, or KS series, 2 through 6 in. thickness; CWP-V, H, 2 through 3 in. nominal thickness or Designwall 2000 or Designwall 4000, 2 and 3 in. nominal thickness.

7. **Steel Framing Members* —** (Optional, Not Shown) — Furring Channels and Steel Framing Members as described below:

a. **Furring Channels —** Formed of No. 25 MSG galv steel, 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 2.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7A) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75).

7A. **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 7) — Furring channels and Steel Framing Members as described below:

a. **Furring Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. Two layers of gypsum board attached to furring channels as described in Item 2.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Aa) to interior side of studs. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.
KINETICS NOISE CONTROL INC — Type Isomax.

7B. **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 7) — Furring channels and Steel Framing Members as described below:

a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 2.

b. **Steel Framing Members* —** Used to attach furring channels (Item a) to studs. Clips spaced 48 in. OC. Genie clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
PLITEQ INC — Type Genie Clip

7C. **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 7) — Furring channels and Steel Framing Members as described below:

a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.Gypsum board attached to furring channels as described in Item 2.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Ca) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

7D. **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 7) — Furring channels and Steel Framing Members as described below:

a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 7Db. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 2.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Da) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
REGUPOL AMERICA — Type SonusClip

7E. **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 7) — Resilient channels and Steel Framing Members as described below:

a. **Resilient Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 2.

b. **Steel Framing Members* —** Used to attach resilient channels (Item 7Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.
KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

7F **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 7) — Furring channels and Steel Framing Members as described below:

a **Furring Channels —** Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. or 1-1/2 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 2.

b **Steel Framing Members* —** Used to attach furring channels (Item 7Fa) to studs. Clips spaced maximum 48 in. OC. Clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips.

CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

8. **Non-Bearing Wall Partition Intersection —** (Optional) — Two nominal 2 by 4 in. stud or nominal 2 by 6 in. stud nailed together with two 3in. long 10d nails spaced a max. 16 in. OC. vertically and fastened to one side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max 16 in. OC. vertically. Intersection between partition wood studs to be flush with the 2 by 4 in. studs. The wall partition wood studs are to be framed by with a second 2 by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Maximum one non-bearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.

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

Last Updated on 2020-10-07

Revisions

#	REVISION	DATE

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)

400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

March Adams & Associates
Consulting Engineers

310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

EDMUND G. GARBEE — REGISTERED ARCHITECT — STATE OF TENNESSEE
9/03/2021

DRAWN:	EG
CHECKED:	EG
JOB No.	21-008
DATE:	SEPTEMBER 3, 2021

ALS-1.9

BUILDING - A

UL Detail U356

Garbee Architecture
PH: 423.364.2830

UL Product iQ™

BXUV.U901 - Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

Fire-resistance Ratings - ANSI/UL 263

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

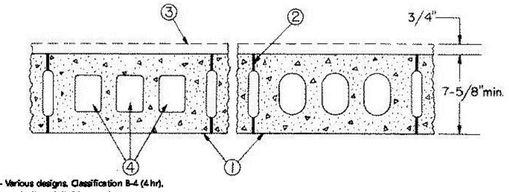
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. U901

January 11, 2022

Bearing Wall Rating — 4 HR.
Nonbearing Wall Rating — 4 HR.
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 Canada, a load restriction factor shall be used — See Guide 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. Concrete Blocks* — Various designs. Classification 8-4 (4 hr).
See Concrete Blocks category for lists of eligible manufacturers.

2. Mortar — Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.

3. Portland Cement Stucco or Gypsum Plaster — If used, add 1/2 hr. to Classification.

4. Loose Masonry Fill — If all core spaces are filled with loose dry expanded slag, burned clay or shale (rotary kiln process), water repellant vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation, Class D-2 (2 hr) or C-3 (3 hr) concrete blocks will provide a 4 hr fire resistance rating.

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

Last Updated on 2022-01-11

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)

400 GALLERIA PARKWAY
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EDMUND G. GARBEE — REGISTERED ARCHITECT — STATE OF TENNESSEE
9/03/2021

DRAWN:	EG
CHECKED:	EG
JOB No.	21-008
DATE:	SEPTEMBER 3, 2021

Garbee Architecture
PH: 423.364.2830

1

ALS-1.10

BUILDING - A

UL Detail U901

UL Product iQ™

BXUV.P562 - Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

Fire-resistance Ratings - ANSI/UL 263

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

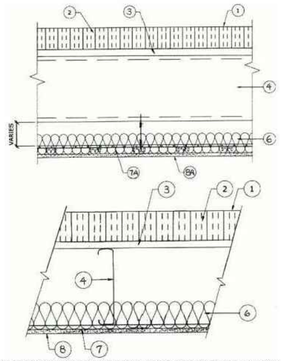
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. **P562**

February 7, 2022

Unrestrained Assembly Rating — 1 Hr.
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 Canada, a load restriction factor shall be used — See Guide 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. Roof Covering* — Consisting of hot-mopped or cold-application materials compatible with insulation(s) described herein which provide **Class A, B or C** coverings. See Roofing Materials and Systems Directory–Roof Covering Materials (TEVT).

1A. Roofing Membrane* — (Not Shown) — In lieu of Item 1, single-ply membrane that is either ballasted, adhered or mechanically attached to the insulation(s) described herein as permitted under the respective company's Classification. See Fire Resistance Directory-Roofing Membranes (CHCI) Category.

1B. Metal Roof Deck Panels* — In Lieu of or in addition to Items 1 and 1A, the roof covering may consist of mechanically fastened galv or painted steel roof deck panels. Panels may be installed above a steel purlin assembly per metal roof deck manufacturer's specifications. Steel purlin assembly to be installed transverse to steel roof joists (Item 4). A line of sealant or tape may be used at panel side and end laps. See Metal Roof Deck Panels Category in the Roofing Materials and Systems Directory (TJPV) or Fire Resistance Directory (CETW) for names of manufacturers.

2. Roof Insulation — Foamed Plastic* — Any polyisocyanurate foamed plastic insulation boards bearing the UL Classification Marking. Min thickness is 1 in., with no limit on max overall thickness. Boards installed over the gypsum sheathing (Item 3A) with the end-joints staggered in adjacent rows. When applied in more than one layer, each layer of board to be offset in both directions from layer below in order to lap all joints. Boards loosely laid, adhered or mechanically fastened to gypsum sheathing and Structural Cement-Fiber (Item 3). See Foamed Plastic (CCVW) Category in the Fire Resistance Directory.

2A. **Roof Insulation — Foamed Plastic* —** (Not Shown) — As an alternate to Item 2 —Any polystyrene foamed plastic insulation boards bearing the UL Classification Marking. Min thickness is 1 in., with no limit on max overall thickness. Boards installed over the gypsum sheathing (Item 3A), with the end-joints staggered in adjacent rows. When applied in more than one layer, each layer of board to be offset in both directions from layer below in order to lap all joints. Boards loosely laid, adhered or mechanically fastened to gypsum sheathing and Structural Cement-Fiber (Item 3). See Foamed Plastic (BRYX) category in the Building Materials Directory or Foamed Plastic (CCVW) category in the Fire Resistance Directory.

2B. **Roof Insulation — Mineral and Fiber Boards* —** (Not Shown) — As an alternate to Item 2 — Mineral wool, glass fiber or perlite insulation boards, 24 by 48 in. min size, applied in one or more layers. Min thickness is 1 in., with no limit on max overall thickness. Boards installed over the gypsum sheathing (Item 3A), with the end-joints staggered in adjacent rows. When applied in more than one layer, each layer of board to be offset in both directions from layer below in order to lap all joints. Boards loosely laid, adhered or mechanically fastened to gypsum sheathing and Structural Cement-Fiber (Item 3). See Mineral and Fiber Boards (BQXR) Category in the Building Materials Directory or Mineral and Fiber Boards (CERZ) Category in the Fire Resistance Directory.

3. **Structural Cement-Fiber Units* —** Nom 3/4 in. thick, with long edges tongue and grooved. Long dimension of panels to be perpendicular to joists with end joints staggered a min of 2 ft and centered over the joists. Panels secured to steel joists with 1-5/8 in. long No. 8 self-drilling, self-countersinking steel screws spaced a max of 12 in. OC in the field with a screw located 1 in. and 2 in. from each edge, and 8 in. OC on the perimeter with a screw located 2 in. from each edge, located 1/2 in. from the side edges of the panel.
As an alternate to the 1-5/8" long No. 8 fastener, the following power-actuated pins may be used for min. 1/8" thick, hot-rolled A36 steel sections for joist specified in Item 4J:

Hilti pin model X-U 32MX with a min. 0.157" shank diameter min. 1-1/4" long, DeWalt pin model S045B-PWR with a min. 0.157" shank diameter min. 1-1/4" long or Aerosmith model 5324HPG with a min. 0.145 shank diameter min. 1-1/4" long.

UNITED STATES GYPSUM CO — Types STRUCTO-CRETE, USGSP

3A. **Gypsum Board* (Not Shown) —** Min 1/2 in. thick gypsum board, Classified as to Surface Burning Characteristics. Boards loosely laid, adhered or mechanically attached to Structural Cement-Fiber Units. Joints between Structural Cement Fiber Units and of Gypsum Board staggered a min of 6 in. See Gypsum Board (BWFR) Category in the Building Materials Directory or Roofing Systems (TGFU) in the Roofing Material Directory or Gypsum Board (CKNX) Category in the Fire Resistance Directory.
UNITED STATES GYPSUM CO — Type FRX-G

4. **Structural Steel Members —** Channel-shaped, min 10 in. deep with min 1-5/8 in. wide flanges and 1/2 in. long stiffening flanges. Fabricated from min No. 16 MSG galv steel. Min yield strength of 50,000 psi. Joists spaced max 24 in. OC. Supplied with appropriate rim tracks of same size and gauge.

4A. **Structural Steel Members —** (Not Shown) -As an alternate to Item 4 - For maximum clear spans not exceeded 8 ft. Channel-shaped, min 6 in. deep with min 1-9/16 in. wide flanges and 3/8 in. long stiffening flanges. Fabricated from min No. 18 MSG galv steel. Min yield strength of 33,000 psi. Joists spaced max 24 in. OC. Supplied with appropriate rim tracks of same size and gauge.

4B. **Structural Steel Members —** (Not Shown) -As an alternate to Item 4 - Channel-shaped, min 8 in. deep with min 1-9/16 in. wide flanges and 3/8 in. long stiffening flanges. Fabricated from min No. 16 MSG galv steel. Min yield strength of 33,000 psi. Joists spaced max 24 in. OC. Supplied with appropriate rim tracks of same size and gauge.

4C. **Structural Steel Members* —** (Not Shown) - As an alternate to item 4 only - The joists are channel-shaped, 10 in. min depth. Joists are fabricated from min No. 16 MSG galv steel. Joists spaced max 24 in. OC. Joists attached to rim joist with a minimum of three #10 3/4 in. long self-drilling screws at the rim track clip to the outside of the web joist, and a #10 1/2 in. long screw through the top and bottom flange of the joists to the top and bottom flange of the rim track. At rim joist splices bearing on supports, rim joists are connected using an overlapping section of a 12 in. long splice plate (a joist piece), with a minimum of six 3/4 in. long self-drilling #10 screws to each rim piece.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Type SSCJ floor joists, SSRT rim joists or Type SSTT rim joists. When Type SSTT rim joists are used, secured to preformed clip tabs in accordance with manufacturers installation instructions.

4D. **Clip Angles —** (Not Shown) - No. 16 MSG, 9-3/4 in. long steel angles with 2 in. legs. Secured to track and joist with eight No.10, 3/4 in. long, self-drilling, hex head screws, located 1 in. from each end of clip angle, with the other two screws on each leg evenly spaced. Only one clip angle per joist end.

4E. **Clip Angles —** (Not Shown) - As an alternate to Item 4D, for use with 6 or 8 in. deep joists (Item 4A or 4B). No. 16 MSG, 5-1/2 in. long steel angles with 1-1/2 in. legs for 6 in. deep joists and No. 18 MSG, 7-1/4 in. long steel angles with 1-1/2 in. legs for 8 in. deep joists. Secured to track and joist with six No.10, 3/4 in. long, self-drilling, hex head screws, located 1 in. from each end of the clip angle and at the centerline. Only one clip angle per joist end.

4F. **Structural Steel Members* —** (Not Shown) - As an alternate to Item 4 only. The proprietary joists are channel-shaped, min 9-1/4 in. deep. Joists are fabricated from min No. 16 MSG galv steel. Joists spaced max 24 in. OC. Joists attached to joist rim with three min 3/4 in. long No. 10 x 16 self-drilling steel TEK screws through tab to the outside of the web. At joist rim splices bearing on supports, joists rims are connected using an overlapping section of a 12 in. long splice plate (a joist piece), with four min 3/4 in. long No. 10 x 16 self-drilling steel TEK screws to each rim piece.
CLARKDIETRICH BUILDING SYSTEMS — Types TDJ24, TDW24, TDJ48, TDW48 Floor Joists, TD Rim Joist

4G. **Structural Steel Members* —** (Not Shown) - As an alternate to Item 4, 4A, 4B, 4C and 4F - Pre-fabricated light gauge steel truss system consisting of cold-formed, galv steel chord and web sections. Trusses fabricated in various sizes, depths and from various steel thickness spaced a maximum of 24 in. OC.
AEGIS METAL FRAMING, DIV OF MITEK — Ultra-Span, Pre-fabricated Light Gauge Steel Truss System

TRUSSTEEL, DIV OF ITW BUILDING COMPONENTS INC — TrusSteel

4H. **Structural Steel Members* —** (Not Shown) - As an alternate to Item 4, 4A, 4B, 4C, 4F and 4G, - Pre-fabricated steel truss system consisting of cold-formed, galvanized steel chord and web sections. Truss top and bottom chords min. 4 in. high by 1-11/16 in. wide by 18 ga. Truss webs min. 1-1/2 in. by 1-1/2 in. by 20 ga. square tube bent and triangulated as shown. Chords and web connected by fillet welds. Overall truss depth min. 12 in. Trusses spaced a max of 24 in. OC. Truss ends placed over and secured to Bearing Seats (Item 4H1) with two min. #10 by 3/4 in. long screws on each side of Bearing Seats. Allowable loading must be calculated so as to stress the steel trusses to a maximum of 98% of the stress calculated in accordance with the allowable stress design approach outlined in the manufacturer's load tables.
EISEN PANEL SYSTEMS L L C — Type Gateway Panel pre-fabricated steel truss system.

4H1. **Bearing Seats* —** (Not Shown) — Galvanized steel tube, min. 1 in. by 2-1/2 in. by 13 ga., oriented vertically and welded to min. 4 in. by 4 in. by 10 ga., galvanized steel plate. Bearing seats spaced 24 in. OC and attached to bearing supports by welding or screw attaching the steel plate to the bearing supports.
EISEN PANEL SYSTEMS L L C — Type Gateway Panel bearing seat.

4H2. **Bracing —** (Not Shown) - For use with Item 4H — Galvanized channel-shaped steel sections, min. 1-1/2 in. wide with 1/4 in. flanges, min. 16 ga. Bracing attached to underside of trusses with min. #10 by 3/4 in. long screws through truss bottom chord. Bracing installed in truss cavities by scoring, bending and flattening the ends to form a tab for attachment to truss top and bottom chords. Two pieces of bracing crossed and tabs secured to truss chords with min. #10 by 3/4 in. long screws. Location and spacing of underside and crossed bracing to be specified on truss engineering.

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

at

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KNOXVILLE, TN 37917

for

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ATTN: JOHN PATEL (PRES)
400 GALLERIA PARKWAY
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EDMUND G. GARBEE — REGISTERED ARCHITECT — STATE OF TENNESSEE
9/03/2021

DRAWN:	EG
CHECKED:	EG
JOB No.	21-008
DATE:	SEPTEMBER 3, 2021

Garbee Architecture
PH: 423.364.2830

ALS-1.11

BUILDING - A

UL Detail P562

4I. **Steel Trusses —** As an alternate to Items 4, 4A, 4B, 4C, 4F, 4G and 4H - Cold-formed galvanized steel truss chord and web sections manufactured from steel conforming to ASTM A653 Grade 33 or higher yield strength. Steel thickness of truss chord and web sections as required by design to meet governing code requirements. Truss members connected together with No. 10-16 (min size) self-drilling screws or equivalent. Truss chord and web members to be designed in accordance with the American Iron and Steel Institute's Specification for the Design of Cold-Formed Steel Structural Members, 1996 Edition. Trusses spaced a max of 24 in. OC. Where the truss intersects with the interior face of the exterior walls, the min truss depth shall be 12 in.

4J. **Steel Joists —** As an alternate to Items 4, 4A, 4B, 4C,4F, 4G, 4H and 4I, minimum 12K1, spaced a max 24 in. OC.

4K. **Structural Steel Members* —** As an alternate to Item 4 - Limited to the 1 Hour Ratings. Pre-fabricated light gauge steel truss system consisting of cold-formed, galv steel cord and web sections. Trusses fabricated in various sizes, depths and from various steel thickness. Trusses spaced a max of 24 in. OC. Location of lateral bracing for truss chord and web sections to be specified on truss engineering.
TRUSS LINK INC — Truss Link

5. **Joist Bridging —** (Not Shown) - For use with Item 4 and 4B - Installed immediately after joists are erected and before construction loads are applied. The bridging consisting of joist sections cut to length and placed between outer supports, adjacent to openings and at mid span with 8 ft OC max spacing. Bridging channels are screw-attached at each end to joist web using angle clips. V-bracing of 1-1/2 in. by 20-ga galvanized steel is screw-attached to bottom joist flange between bridging channels.

5A. **Joist Bridging —** (Not Shown) - For use with Item 4A - Installed immediately after joists are erected and before construction loads are applied. The bridging consisting of rim track sections cut to length, with two 4 in. long folded back flanges, and placed between outer supports, adjacent to openings and at mid span with 10 ft OC max spacing. Bridging channels are screw-attached to each of the four top and bottom joist flanges with two No. 8 by 1/2 in. long wafer head steel screws.

5B. **Joist Bridging —** (Not Shown) - For use with Item 4A and 4B - 1-1/2 in. wide strips formed from 20 MSG - The structural bridging is installed perpendicular to and on the bottom surface of the joists at mid-span with one #10 x 3/4 in. long hex head steel screw at each interface.

5C. **Joist Bridging —** Not shown — For use with item 4C. Installed immediately after joists are erected and before construction loads are applied. The structural bridging, Type CEMCO Sure Bridging, consisting of No. 18 MSG galv steel, 2-1/2 in. wide by 25-1/2 in. long with 1-5/16 in. long legs structural bridging staggered between the steel joists and attached to the bottom joist flange with two #10 1/2 in. long self-drilling screws at each end tab of bridging. Solid bridging consisting of cut to length joist sections placed between outer joists and at center joist with 8 ft OC max spacing. Solid bridging is seated in the structural bridging and is screw-attached at joist web using Type CEMCO Sure-Support Clips (1-1/2 in. by 1-1/2 in. by 7 in. long, 16 MSG, min 50 ksi support clip) with three #10 3/4 in. long self-drilling screws per leg on one side and the other side with Type CEMCO Sure-Support Clips (4 in. by 1-1/2 in. by 7 in. long, 16 MSG, min 50 ksi support clip) with three #10 3/4 in. long self-drilling screws per leg.

5D. **Joist Bridging — (**Not Shown) —For use with Item 4F. Installed at the center of the joist span immediately after joists are erected and before construction loads are applied. The bridging (2-1/2 TDS818) consists of No. 18 MSG galv steel channels, 2-1/2 in. wide by 1-1/4 in. deep by 21-3/4 in. long with 2-1/8 in. long web extensions at each end for screw-attachment to the bottom flange of the steel joists with a min 3/4 in. long No. 10 x 16 self-drilling steel TEK screw. Solid bridging consisting of cut-to-length joist sections placed between the outermost joists and between the centermost joists with a max spacing of 8 ft OC. Solid blocking is screw-attached at joist web using a No. 16 MSG, min 50 ksi steel support clip (EasyClip S-Series) with three min 3/4 in. long No. 10 x 16 self-drilling steel TEK screws per leg on the outside of the joist web, and with a No. 16 MSG, min 50 ksi steel support clip (EasyClip E-Series) with three min 3/4 in. long No. 10 x 16 self-drilling steel TEK screws per leg on the inside of the joist web. Alternatively, blocking may consist of min 925JB24 prefabricated joist blocking attached with two No. 10-16 TEK screws at each connection angle.

5E. **Bridging —** (Not Shown)—For use with Item 4G - Location of lateral bracing for truss chord and web sections to be specified on truss engineering.

6. **Batts and Blankets* —** Glass fiber insulation, min 3-1/2 in. thick, bearing the UL Classification Marking for Surface Burning Characteristics. Min density of 0.5 pcf. The insulation shall be fitted in the concealed space, draped over the resilient channel (Item 7) or steel frame members (Item 7A) and gypsum board (Item 8) ceiling membrane. See **Batts and Blankets** (BKNV) category in the Building Materials Directory for names of manufacturers.

7. **Resilient Channels —** Formed of No. 25 MSG galv steel, 1/2 in. deep, spaced max 12 in. OC, perpendicular to joists. Channel splices located beneath joists and overlapped 4 in. Channels secured to each joist with one 1/2 in. long Type S-12 low profile steel screw. Two channels, spaced 6 in. OC, oriented opposite each gypsum board end joint as shown on the illustration above. Additional channels shall extend min 6 in. beyond each side edge of board.

7A. **Steel Framing Members* —** (Optional) — When it is desired to drop the ceiling below the bottom plane of the structural steel members (Item 4), a suspension system may be used in lieu of the resilient channels. Main runners, cross tees, cross channels and wall angle as listed below:
a. **Main Runners —** Nom 10 or 12 ft long , 15/16 in. or 1-1/2 in. wide face, spaced 4 ft. OC. Main runners suspended by min 12 SWG galv steel hanger wires spaced 24 in. OC a min of 4 in. below bottom flange of joists, twist tied to #10 - 3/4 in. long screws installed in the web, 1/2 in. from the bottom flange of the steel joists. Hanger wires to be located adjacent to main runner/cross tee intersections.

b. **Cross Tees —** Nom 4 ft long, 1-1/2 in. wide face, installed perpendicular to the main runners, spaced 16 in. OC. Additional cross tees or cross channels used at 8 in. from each side of butted gypsum panel end joints. The cross tees or cross channels may be riveted or screw attached to the wall angle or channel to facilitate the ceiling installation.

c. **Cross Channels —** Nom 4 ft or 12 ft long, installed perpendicular to main runners, spaced 16 in. OC.

d. **Wall Angle or Channel —** Painted or galv steel angle with 1 in. legs or channel with 1 in. legs, 1-9/16 in. deep attached to walls at perimeter of ceiling with fasteners 16 in. OC. To support steel framing member ends and for screw-attachment of the gypsum panel.
CGC INC — Type DGL or RX

USG INTERIORS LLC — Type DGL or RX

7B. **Steel Framing Members* —** (Optional, Not Shown) — As an alternate to Item 7 — Furring channels and Steel Framing Members as described below:
a. **Furring channels —** Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced 12 in. OC, perpendicular to joists. Channel secured to joists as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. Additional channels shall be positioned so that the distance from the end of the board to the center of the first channel is 3 in. and from the board end to the center of the next channel is 12 in.

b. **Steel Framing Members* —** Used to attach furring channels (Item a) to joists (Item 4). Clips spaced 48 in. OC and secured to the bottom chord of joists with min 1-5/8 in. long No. 8 self-drilling, self-tapping, bugle, flat or hex head screw through the center grommet. Furring channels are friction fitted into clips. Additional clips required to hold furring channel that supports the gypsum board butt joints.
PLITEQ INC — Type Genie Clip

7C. **Alternate Steel Framing Members* —** (Optional, Not Shown) — As an alternate to Items 7 to 7B, furring channels and Steel Framing Members as described below.
a. **Furring channels —** Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 12 in. OC, perpendicular to joists. Channels secured to joists as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap.

b. **Steel Framing Members* —** Used to attach furring channels (Item a) to the steel joists (Item 4). Clips spaced a max of 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to alternating joists with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clips for use with 2-23/32 in. wide furring channels. Adjoining channels are overlapped as described in Item a. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the wallboard butt joints, as described in Item 8.
PAC INTERNATIONAL L L C — Types RSIC-1 or RSIC-1 (2.75)

8. **Gypsum Board* —** One layer of nom 5/8 in. thick by 48 in. wide gypsum panels installed with long dimension perpendicular to resilient/furring channels. Gypsum panels secured to resilient/furring channels with 1 in. long Type S bugle-head screws spaced 8 in. OC, with screws located 4 in. from and on each side of the gypsum panel mid-span, and 1-1/2 in. from side edges of the board. End joints secured to both resilient/furring channels as shown in end joint detail. When **Steel Framing Members** (Item 7B or 7C) are used, the butt joints in the gypsum board shall be supported by two furring channels. The two furring channels shall be spaced approximately 3-1/2 in. OC, and be attached to underside of the joist with one RSIC-1, RSIC-1 (2.75) or Genie clip at each end of the channel.
CGC INC — Types C, IP-X2, IPC-AR,

CGC INC — Type ULIX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, ULIX

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

8A **Gypsum Board* —** For use when Steel Framing Members* (Item 7A) are used - One layer of 5/8 in. thick, 4 ft wide, installed with long dimension perpendicular to cross tees with side edges centered over main runners and joints centered over cross tees or channels. Fastened to cross tees or channels with 1 in. long Type S screws bugle-head screws spaced 8 in. OC with the screws located 4 in. from the mid-span of the cross tee or channel, and 1-1/2 in. from side edges of gypsum panel. Fastened to main runners with 1 in. long Type S bugle-head screws spaced midway between cross tees or channels. End joints of gypsum panels shall be staggered not less than 4 ft OC with adjacent gypsum panels end joints.
CGC INC — Types C, IP-X2, IPC-AR

CGC INC — Type ULIX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, ULIX

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

9. **Finishing System - (Not Shown) —** Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads. Nom 2 in. wide paper tape 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 panels.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**
Last Updated on 2022-02-07

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Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)

400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

March Adams & Associates
Consulting Engineers

310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

EDMUND G. GARBEE — REGISTERED ARCHITECT — STATE OF TENNESSEE
9/03/2021

DRAWN:	EG
CHECKED:	EG
JOB No.	21-008
DATE:	SEPTEMBER 3, 2021

1

ALS-1.12

BUILDING - A

UL Detail P562

Garbee Architecture
PH: 423.364.2830

UL Product iQ™

BXUV.P938 - Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

Fire-resistance Ratings - ANSI/UL 263

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

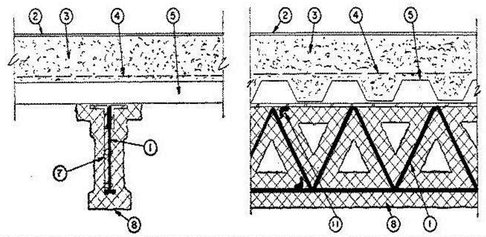
See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. P938

December 2, 2021

Restrained Assembly Ratings — 1, 1-1/2 or 2 Hr.
(See Items 1, 4, 5 and 8)
Unrestrained Assembly Rating — 0, 1-1/2, or 2 Hr. (See Item 5)
Unrestrained Beam Ratings — 1, 1-1/2 or 2 Hr.
(See Items 1, 4, 5, 7A and 8)



1. Steel Beam — W6x16, W8x10, W8x18 or W8x28, min size or Types 10K1, 12J4, 14K4 or 16K3 min size steel joists. See Item 8. As alternate to wide flange steel beams, joist girders-(Not shown)-20 in. min depth and 13 lb/ft min weight.

2. Roof Covering* — Consisting of hot mopped or cold application materials compatible with insulation(s) described herein which provide Class A, B or C coverings. See Roofing Materials and Systems Directory-Roof Covering Materials (TEVT).

2A. In lieu of Item 2, roof covering consisting of single-ply Roofing Membrane* — that is either ballasted, adhered or mechanically attached as permitted under the respective manufacturer's Classification. See Fire Resistance Directory-Roofing Membranes (CHCI).

3. Insulating Concrete — various types of insulating concrete prepared and applied in the thickness indicated below:
A. **Vermiculite Concrete** — 6 cu ft of vermiculite aggregate* to 94 lb of Portland cement and 0.11 lb of air entraining agent mixed with approx 2.5 gal of water. Min compressive strength shall be 125 psi when tested in accordance with ASTM C495. Vermiculite concrete shall be poured to a depth sufficient to provide a min thickness of 2-1/4 in. to the crests of steel roof deck units (Item 5) and to provide a min volume of 24.5 cu ft per 100 sq ft of roof deck area.
ELASTIZELL CORP OF AMERICA — Types MS16-U, MSV200.

MANDOVAL LTD

MANDOVAL VERMICULITE PRODUCTS INC

PALMETTO VERMICULITE CO

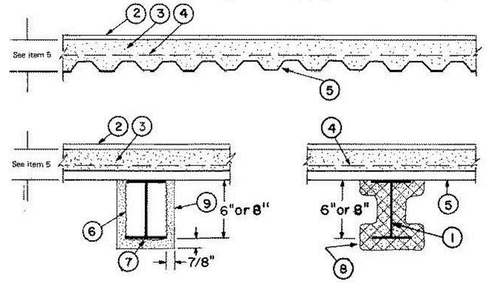
SIPLAST INC

THE STRONG CO INC

VERMICULITE PRODUCTS INC

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 Canada, a load restriction factor shall be used — See Guide 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.**



B. **Cellular Concrete — Roof Topping Mixture*** — Foam concentrate mixed with water and Portland cement per manufacturer's specifications. Cast dry density and 28-day compressive strength of min 190 psi as determined in accordance with ASTM C495-66. Thickness to be 2-3/4 in. min from the top plane of steel roof deck.
CELCORE INC — Type Celcore with cast dry density of 31 (+ or - 3.0) pcf or Type Celcore MF with cast dry density of 29 (+ or - 3.0) pcf.

CELLULAR CONCRETE SOLUTIONS L L C — Cast dry density 37 (+ or -) 3.0 pcf.

ELASTIZELL CORP OF AMERICA — Type II. Mix #1 of cast dry density 39 (+ or -) 3.0 pcf, Mix #2 of cast dry density 40 (+ or -) 3.0 pcf, Mix #3 of cast dry density 47 (+ or -) 3.0 pcf.

SIPLAST INC — Mix #2. Cast dry density of 36 (+ or -) 3.0 pcf.

C. **Perlite Concrete** — 6 cu ft of perlite aggregate* to 94 lb of Portland cement and 1-1/2 pints of air entraining agent. Thickness of perlite concrete topping to be 2-1/4 in. min as measured to the top plane of the steel form units.
See **Perlite Aggregate** (CFFX) in Fire Resistance Directory for names of manufacturers.

D. **Cellular Concrete — Roof Topping Mixture*** — Foam Concentrate mixed with water, Portland Cement and UL Classified Vermiculite Aggregate per manufacturer's application instructions. Cast dry density of 33 (+ or -) 3.0 pcf and 28-day compressive strength of min 250 psi as determined in accordance with ASTM C495-86. The cellular concrete topping thickness shall be 2-3/4 in. min from the top plane of steel roof deck.
CELLULAR CONCRETE SOLUTIONS L L C — Mix #3.

SIPLAST INC — Mix #3.

4. Reinforcing Mesh — No. 19 SWG galv steel wire twisted to form hexagons 2 in. wide in addition, straight 16 SWG galv steel wire woven into the mesh and spaced 3 in. apart for stiffness. Mesh installed without attachment and overlapped 6 in. at the sides.
Stiffeners installed parallel with corrugations. As an alternate, 4x8, 12/14 SWG or 2x2. 14/14 SWG welded wire fabric may be used. The reinforcing mesh may be omitted for the 1 hr ratings when the steel roof deck (Item 5) is loaded not more than 75 percent of its bending capacity.

5. Steel Roof Deck — (Unclassified) — Noncomposite design, 9/16, 15/16 in., 1-5/16 in. or 1-1/2 in. deep galv units, min. Welded to supports with 3/8 in. puddle welds through weld washers spaced 15 in. OC. Adjacent units overlapped one corrugation. Steel thickness to be No. 24 MSG min when supports are spaced not more than 8 ft OC, No. 26 MSG min when supports are spaced not more than 6 ft O.C, No. 28 MSG min when supports are spaced not more than 4 ft OC. When 9/16 or 15/16 in. deep units are used, their loadings shall be limited to produce a 75 percent max bending stresses in the steel, and the Restrained Assembly Rating shall not exceed 1-1/2 H. H Classified Steel Floor and Form Units*, which conform to the same installation, steel thickness, and loading requirements as described for unclassified units may be used. Joint cover shall be 2 in. wide cloth adhesive tape applied following the contour of the steel form units. The Unrestrained Assembly Rating is 2 Hr when 1-5/16 in. deep corrugated units with clear spans not more than 7 ft, 7 in. are supported by Type 12J4 steel joists. The loading of the steel roof deck shall not product more than 75 percent of the allowable bending stress of the steel when the reinforcing mesh (Item 4) is not used for the 1 hr rating. Perforated cellular units 6 in. deep, 24 in. wide, 18/18 MSG galv steel,with 2-1/2 in. thickness of vermiculite concrete as measured to the crests of the units may be used with spray-applied fireproofing on beam under the following conditions and subject to above installation specifications: (1) Floor units covering only single spans. A steel plate, min 26 MSG, shall be placed between ends of units over beam to prevent flow of hot gases through cells of units over beam. (2) To provide anchoring for fireproofing a line of steel studs with discs must be welded to underside of floor units on each side of beam approx 9 in. from edge of beam flange and spaced 24 in. OC. The studs shall be 1-1/8 in. long, 12 SWG galv steel wire with 28 MSG, 1-3/16 in. diam galv steel disc spot-welded to one end. Other end of stud

Revisions

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EDMUND G. GARBEE — REGISTERED ARCHITECT — STATE OF TENNESSEE
9/03/2021

DRAWN:	EG
CHECKED:	EG
JOB No.	21-008
DATE:	SEPTEMBER 3, 2021

1 ALS-1.13

BUILDING - A

UL Detail P938

GA Garbee Architecture
PH: 423.364.2830

welded to floor units. (3) The applicable required thickness of sprayed material shall extend onto the floor units for a 12 in. width beyond edges of beam upper flange and/or joist upper chord. (See Items 8, 8A, 8B below).
ASC STEEL DECK, DIV OF ASC PROFILES L L C — 32 in. wide Type CP32; 36 in. wide Types 8H-36, 8HN-36, 8HN-35-1/4, DG8-36, 8-36, 8N-36, 8N-35-1/4.

CANAM STEEL CORP — Type P-3606, P-3615, or P-3012

CANAM STEEL CORP — Types B, N, UFS, UFX, UFX-36.

DECK WEST INC — 36 in. wide Type B-DW, BA-DW, 2-DW or 3-DW.

EPIC METALS CORP — Types "Metricform" , MFB40, ER2R, ER3.5, Epicore A, 3.5 Epicore A, E324, E450, E600, E750, EP324, EP450, EP600, EP750, ED324, ED450, ED600, ED750, EDP324, EDP450, EDP600, EDP750, W450, W600, W750, WP450, WP600, WP750.

H H ROBERTSON — Types 3, 21, 2" QL-99, 3" QL-99, 6" ADC.

MARLYN STEEL DECKS INC — Types B, EF, F, HF, N, NV, SF.

NEW MILLENNIUM BUILDING SYSTEMS L L C — Types EHD, HD, S, SD, SDR.

ROOF DECK INC — Types A, B-1, B-2, EHD Multi-Rib, F, LOK-2, LOK-3.

VERCO DECKING INC - A NUCOR CO — Deck types PLB, HSB, PLN3, HSN3, PLN, N, Shallow or Deep VERCOR™, Deep VERCOR VENTLOK; FORMLOK™ deck types PLB, B, PLN3, N3, PLN, N. Units may be galvanized, phos./ptd. or mill finish. Deck may be vented or non-vented. Types 2.0D, 3.5D.

VULCRAFT, DIV OF NUCOR CORP — Types 0.6C, 0.6CPR, 1.0C, 1.3C, 1.5C, 2C, 3C, 1.5B, 1.5BI, 3N, 3NI; Types 2.0D, 3.5D.

6. **Hanger Wire —** No. 6 SWG galv steel wire, spaced 16 in. OC.

7. **Metal Lath —** (Optional) — Metal lath is used to facilitate the spray application of protection material on steel bar joists and trusses. The diamond mesh, 3/8 in. expanded steel lath, 1.7 to 3.4 lb per sq yd is secured to one side of each steel joist with 18 SWG galv steel wire at joist web and bottom chord members, spaced 15 in. OC max. When used, the metal lath is to be fully covered with protection material with no min thickness requirements, unless specified.

7A. **Non-Metallic Fabric Mesh —** (Optional, Not Shown) — As an alternate to metal lath, glass fiber fabric mesh, weighing approximately 2.5 oz per sq yd, polypropylene fabric mesh, weighing approximately 1.25 oz per sq yd or equivalent, is used to facilitate the spray application. The mesh is secured to one side of each joist web member. The method of attaching the mesh must be sufficient to hold the mesh and the spray-applied protection material in place during application until it has cured. An acceptable method to attach the mesh is by embedding the mesh in minimum 1/4 in. long beads of hot melted glue. The beads of glue shall be spaced a maximum of 12 in. OC along the top chord of the bar joist. Another method to secure the mesh is by 1-1/4 in. long by 1/2 in. wide hairpin clips formed from No. 18 SWG or heavier steel wire.

ETEX MIDDLE EAST LLC — Types PFM2 or PFTG. Types PFM2 and PFTG investigated for exterior use.

PROMAT INC — Types F5, F5T, PFM2 and PFTG. Types F5, F5T, PFM2 and PFTG investigated for exterior use.

PROMAT AUSTRALIA PTY LTD — Type PFM2, investigated for exterior use.

PROSTAR CONTRACT SERVICES PTE LTD — Types PFM2 or PFTG. Types PFM2 and PFTG investigated for exterior use.

SHIN SUNG MINERAL CO LTD — Types PFM2 or PFTG. Types PFM2 and PFTG investigated for exterior use.

8B. **Spray-Applied Fire Resistive Materials* —** Applied by spraying with water, in one or more coats, to a final thickness as listed below. Crest areas of steel roof units shall be filled with protection material above the beam or joist. Beam and Joist surface must be clean and free of dirt, loose scale and oil. For method of density determination, refer to Design Information Section.
Min thicknesses are shown in the table below.

Restrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Min Mtl Thkns on 8x28 Beam in.
1	1	1/2
1-1/2 or 2	1-1/2	13/16
2	2	1-1/4

Restrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Min Thkns on 10K1 Joist in.*
1	1	15/16
1-1/2 or 2	1-1/2	1-1/2
2	2	2-5/16

*Protection material directly applied to joist following joist contours. As an option, metal lath (Item 7) or glass fiber mesh (Item 7A) secured to one side of joist to catch overspray when spraying following joist contours. Metal lath to be fully covered with material but with no min thickness requirements.

PROMAT INC — Types FC and DF

9. **Vermiculite Gypsum Plaster —** Hand applied. Scratch and brown coat 2 cu ft of **Vermiculite Aggregate*** to 100 lb of fibered gypsum plaster.

8. **Spray-Applied Fire Resistive Materials* —** Applied by mixing with water and spraying in one or more coats to the beam or joist surfaces which are free of oil, dirt or loose scale to the thicknesses shown in the table below. All areas between the steel deck and top flange of beam or joist shall be sprayed. Min average density of 17.5 and min individual value of 16 for Types PC3C, F3, RS or DS. Min average and min individual density of 22 and 19 pcf, respectively, for Types PC4C of F4. For method of density determination, see Design Information Section, Sprayed Material.

Restrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Min Thkns on Beam in. W6x16	Min Thkns * on 10K1 Joist in.
1	1	7/16	15/16 (1-1/16)
1-1/2 or 2	1-1/2	3/4	1-1/2
2	2	1-1/16	1-13/16

*Spray-Applied Fire Resistive Materials directly applied to joist contours. As an alternate, metal lath or nonmetallic fabric mesh secured to one side of joist to catch overspray when spraying following joist contours. Metal lath to be fully covered with Spray-Applied Fire Resistive Materials but with no min thickness requirements.

FLAMTECHNIC CO LTD — Type PC3C.

ETEX MIDDLE EAST LLC — Types PC3C or PC4C.

PROMAT INC — Types F3, RS, DS or F4.

8A. **Spray-Applied Fire Resistive Materials* —** Applied by mixing with water and spraying or troweling in one or more coats to a final thickness as shown in the table below, to steel surfaces which must be clean and free of dirt, loose scale and oil. Min avg density of 44 pcf with min ind value of 40 pcf for Types PFM2 of F5. Min avg density of 44 pcf with min ind value of 42 pcf for Types PFTG or FST. For method of density determination, see Design Information Section.

Restrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Min Mtl Thkns on 8x28 Beam in.
1	1	9/16
1-1/2 or 2	1-1/2	13/16
2	2	1-1/4

FLAMTECHNIC CO LTD — Types PFM2 or PFTG. Types PFM2 and PFTG investigated for exterior use.

MARLEY BUILDING SYSTEMS — Type PFM2, investigated for exterior use.

MOY YUAN INDUSTRIAL LTD — Types PFM2 or PFTG. Types PFM2 and PFTG investigated for exterior use.

PALMETTO VERMICULITE CO

GCP APPLIED TECHNOLOGIES INC

10. **Foamed Plastic* —** (Not shown) — Optional — Rigid foamed plastic insulation, 2 by 4 ft boards. May be bonded to the membrane or installed without adhesion after final asphalt glaze coat has cooled. When applying more than one layer, successive layers shall be installed over preceding layer without attachment.
OC CELFORTEC LP — Max thickness 8 in. covered with crushed stone or concrete pavers at a rate of 10 psf, min.

OWENS CORNING SPECIALTY & FOAM PRODUCTS — Max thickness 8 in. The boards shall be covered with crushed stone or concrete pavers, at a rate of 10 psf, min.

T CLEAR CORP — 4-3/8 in. thick, concrete mortar faced extruded polystyrene Lightguard Boards.

11. **Steel Bridging —** Number, size and spacing in accordance with current Steel Joist Institute specifications. Continuous steel angle welded to top and bottom chords. Bridging coated with same thickness of protection material as required on joist.

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

Last Updated on 2021-12-02

Revisions

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EDMUND G. GARBEE — REGISTERED ARCHITECT — STATE OF TENNESSEE
11/03/2021

DRAWN:	EG
CHECKED:	EG
JOB No.	21-008
DATE:	SEPTEMBER 3, 2021

1

ALS-1.14

BUILDING - A

UL Detail P938

Garbee Architecture
PH: 423.364.2830

UL Product iQ™

BXUV.D925 - Fire-resistance Ratings - ANSI/UL 263

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Fire-resistance Ratings - ANSI/UL 263

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

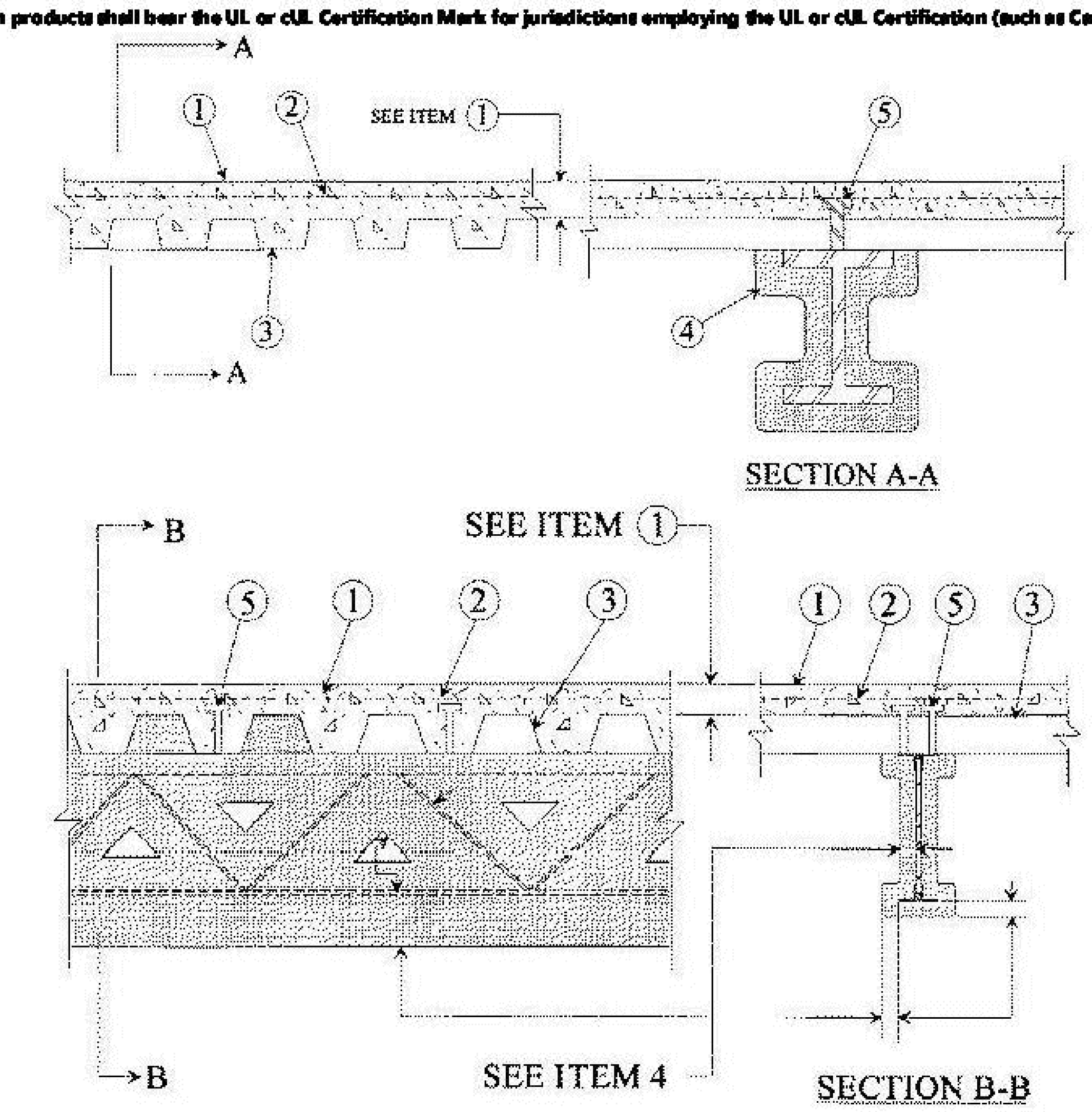
Design No. D925

December 16, 2021

Restrained Assembly Ratings — 3/4, 1, 1-1/2, 2 or 3 Hr (See Items 1, 3A, 6, 10 and 11)
Unrestrained Assembly Rating — 0 Hr (See Items 3, 3A, 4, 4A, 10 and 11)
Unrestrained Beam Ratings — 1, 1-1/2, 2, 3 and 4 Hr (See Items 4, 4A, 10 and 11)
Restricted Load Condition — See Supports and Item 4C

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 Canada, a load restriction factor shall be used — See Guide 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.**



Supports — W8x28,W12x16 or alternate (per Section IV.6 in the front of the Fire Resistance Directory) steel beam or min 8K1 steel joists when joist substitution applied.

1. **Normal Weight or Lightweight Concrete —** Normal weight concrete carbonate or siliceous aggregate, 3500 psi compressive strength, vibrated. Lightweight concrete, expanded shale, or slate aggregate by rotary-kiln method, or expanded clay aggregate by rotary-kiln or sintered-grate method, or pumice aggregate, 3000 psi compressive strength, vibrated, 4 to 7 percent entrained air.

Restrained Assembly Rating Hr	Concrete (Type)	Concrete Unit Weight pcf	Concrete Thkns In.
1	Normal Weight	147-153	3-1/2
1-1/2	Normal Weight	147-153	4
2	Normal Weight	147-153	4-1/2
3	Normal Weight	147-153	5-1/4
3/4 or 1	Lightweight	107-113	2-1/2
1	Lightweight	107-120	2-5/8
1-1/2	Lightweight	107-113	3
2	Lightweight	107-113	3-1/4
2	Lightweight	107-116	3-1/4*
2	Lightweight	114-120	3-1/2
3	Lightweight	107-113	4-3/16
3	Lightweight	114-120	4-7/16

*For use with 2 or 3 in. steel floor and form units only.

2. **Welded Wire Fabric —** 6 x 6, 10 x 10 SWG.

2A. **Negative Reinforcement —** - (Not Shown) - Optional - For 3/4, 1, 1-1/2 and 2 Hr Restrained Assembly Rating Only. Used in lieu of Item 2 and with Items 2B or 2C. For floor spans with concrete cast continuous over the supporting beams. Deformed bars designed to resist the support moments of the concrete slab in accordance with the latest ACI Building Code Specifications.

2B. **Fiber Reinforcement* —** - (Not Shown) - For 3/4, 1, 1-1/2 and 2 Hr Restrained Assembly Rating Only. Required with Item 2A. Engineered synthetic fibers added to concrete mix to control shrinkage cracks in concrete. Fibers added to concrete mix at rate of 5 lbs of fiber for each cubic yard of concrete.
GCP APPLIED TECHNOLOGIES INC — Type Strux 90/40.

2C. **Fiber Reinforcement* —** (Not Shown) - For 3/4, 1, 1-1/2 and 2 Hr Restrained Assembly Rating Only. Required with Item 2A. Engineered synthetic fibers added to concrete mix to control shrinkage cracks in concrete. Fibers added to concrete mix at rate of 1 lbs of fiber for each cubic yard of concrete (Fibermesh 150) or 1.5 lbs of fiber for each cubic yard of concrete (Fibermesh 300).
PROPEX OPERATING CO L L C — Types Fibermesh 150 and Fibermesh 300.

3. **Steel Floor and Form Units* —** Composite or Non-Composite, 1-1/2, 1-5/8, 2 or 3 in. deep galv units or 4-1/2 in. deep non-composite galv units. Fluted units may be uncoated or phosphatized/painted. Min gauges are 22 MSG for fluted and 20/20 MSG for cellular units. The following combinations of units may be used:
(1) All 18, 24, 26 28 or 36 in. wide cellular.

(2) All fluted.

(3) One or two 3 in. deep, 12 in. wide, 18/18 MSG min cellular units, alternating with 3 in. deep fluted or other cellular.

(4) Any blend of fluted and 18, 24, 26, 28, or 36 in. wide cellular.

(5) 3 in. deep, 30 in. wide cellular with 8-1/8 in. wide valley alongside joints may be used when 3/8 in. diam reinforcing bars are placed 1-1/2 in. to each side of side joints and 1 in. above bottom of units.

(6) Corrugated, 1-5/16 in. deep, 30 in. wide, 24 MSG min galv units with shear wires factory welded to deck corrugations. Welded to supports 12 in. OC. through welding washers. For shear wire spacing of 8 in. or less the steel deck stress shall not exceed 20 KSI. For shear wire spacing greater than 8 in. OC. but less than or equal to 12 in. OC. steel deck stress shall not exceed 12 KSI.

ASC STEEL DECK, DIV OF ASC PROFILES L L C — 32 in. wide Types NH-32, NHN-32, NHF-32; 36 in. wide Types BH-36, BHN-36, BHN-35-1/4, BHF-36, BHF-36A, 2WH-36, 2WHS-36, 2WHF-36, 2WHF-36A, 3WxH-36, 3WxHF-36, 3WxHF-36A, 3WH-36, 3WHF-36, 3W-36, 3WF-36, DG3W-36, DG3WF-36. All units may be galvanized or Prime Shield. Non-cellular decks may be vented designated with a "V" suffix to the product name. Cellular deck top and bottom sections may be riveted together (designated with "Fr") vs. arc spot welded, "F".

CANAM GROUP INC — 36 in. wide Type P-3623, P-3606, P-3615 and 24 in wide Type P-2432 composite; 24 or 36 in. wide Type 3 in. LOK-Floor; 36 in. wide Types 1.5B, 1.5BI, 1.5BL and 1.5BL.

CANAM STEEL CORP — 24 in. wide, Types 1-1/2, 2 or 3 in. LOK-Floor and LOK-Floor Cell; 36 in. wide, Types 2 or 3 in. LOK-Floor and LOK-Floor Cells; 24 in. wide, Types N-LOK and N-LOK Cell; 24, 30 or 36 in. wide, Type 1-1/2 in. B-LOK and B-LOK Cell.

NEW MILLENNIUM BUILDING SYSTEMS L L C — 24 in. wide Type Versa-Dek.

DECK WEST INC — 36 in. wide Type B-DW, 2-DW or 3-DW. Side joints of 2-DW and 3-DW may be fastened together with min 1 in. long No. 12 x 14 self-drilling, self-tapping steel screw 36 in. OC.

DESIGN ASSISTANCE CONSTRUCTION SYSTEMS INC — 36 in. wide Type DACS1.5CD, or 24 in. wide Type DACS2.0CD, or DACS3.0CD.

EPIC METALS CORP — 24 in. wide Types EC150, ECP150, EC300, ECP300, EC366, ECP366, EC150, EC300 inverted, Epicore A; 30 in. wide Types ECB150, ECBR150; 36 in. wide Types EC266.

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)
400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

MA &A
March Adams & Associates
Consulting Engineers
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

9/03/2021

DRAWN:	EG
CHECKED:	EG
JOB No.	21-008
DATE:	SEPTEMBER 3, 2021

1

ALS-1.15

BUILDING - A

UL Detail D925

Garbee Architecture
PH: 423.364.2830

H H ROBERTSON — QL Types, 24 in. wide 3 or 3 inverted, UKX, UKX-3, 2 in. 99, AKX, 21 or 21 inverted, 121, NKX, TKX; 24 or 30 in. wide GKX, GKX-A; 36 in. wide 99, AKX, WKX; 24 26, 94, 36 in. wide NKX, 1.5NKC, NKC, AKX, 2 or 3 in. TKC; 12 in. wide noncomposite Sec. 12; 17 in. wide 21; 26 or 28 in. wide UKX, 87.5 cm wide. Side joints of QL, 99, 121, WKX, TKX, TKC, and Metric units — QL-77-900; QLC-78-900; may be welded together 60 in. OC. Side joints of 99, AKX, WKX, GKX, GKX-A, TCX and Metric units — QL-77-900 and QLC-78-900 may be fastened together with min 1 in. long No. 12x14 self-drilling, self-tapping steel screws 36 in. OC.

HAMBRO STRUCTURAL SYSTEMS, DIV OF CANAM STEEL CORP — 36 in. wide, 1-1/2 in. Type P3615H8. The max superimposed loadings for Type P3615H8 units shall not exceed 250 PSF. For single spans, the use of the units shall be limited to 5 ft. 6 in., 6 ft 0 in. and 6 ft 6 in. max spans for the 22, 20 and 18 gauge units, respectively. For multiple spans, 18 gauge units may be used on a max 7 ft 6 in. span with a max total superimposed loading of 240 PSF.

KAM INDUSTRIES LTD, DBA CORDECK — 24 in. wide Types 2 or 3 in. WDR.

MARLYN STEEL DECKS INC — Type 1.5 CF, 2.0 CF or 3.0 CF.

NEW MILLENNIUM BUILDING SYSTEMS L L C — 24 or 36 in. wide Types 2.0CD, 3.0CD, 2.0CFD, 3.0CFD, 3.0CFDES; 24, 30 or 36 in. wide Types 1.5CD, 1.5CDI, 1.5CDR, 1.5CFD. Fluted units may be uncoated, phos/painted or galvanized.

STEEL MASTERS INTERNATIONAL DEPENDABLE STEEL — 36 in. wide Types 2WH-36, 3WH-36. Units may be phos/painted or galvanized.

VALLEY JOIST+DECK — 24 or 36 in. wide Types WVC 1-1/2 or WVC 2.

VERCO DECKING INC - A NUCOR CO — FORMLOK™ deck types PLB, B, BR, PLN3, N3, PLN, N, PLW2, W2, PLW3, W3. Units may be galvanized, phos./ptd, or mill finish. Units may be cellular or acoustical cellular, with the suffix "CD" or "CD-AC" added to the product name, respectively. All non-cellular deck may be vented or non-vented.12 in. wide PLW2, W2, PLW3 or W3 units may be blended with 24 or 36 in. wide PLW2, W2, PLW3 or W3 units, respectively; or Types N3, PLN3, N3-CD, PLN3-CD.

VULCRAFT, DIV OF NUCOR CORP — 24, 30 or 36 in. wide, Type 1.5 VL, 1.5 VLI, 1.5PLVLI, 1.5 VLP, 1.5PLVLP; 24 or 36 in. wide. Types 2VLI, 2.0PLVLI, 2VLP, 2.0PLVLP, 3VLI, 3.0PLVLI, 3 VLP, 3.0PLVLP. 36 in. wide Types 1.5 SB, 1.5 SBR; 24 or 36 in wide Types 2.0 SB, 3.0 SB, 36 in. wide Type High Strength 1.5 SBI, 36 in. wide Type High Strength 1.5 SBN.

Components for field-assembled cellular metal raceway units:

Raceway Bottom — 24 or 36 in. wide Types 212 VS, 312 VS .

Raceway Cover Plate — Types CP-12, CP-16.

Raceway Divider — Type DC-20, DC-25.

Raceway Isolation Trough — Types T-20, T-25, T-30.

Spacing of welds attaching units to supports shall be 12 in. OC for 12, 24 and 36 in. wide units, four welds per sheet for 30 in. wide units, 6 in. OC for 18 in. wide and Sec. 12 units. Unless noted otherwise, adjacent units button-punched or welded together 36 in. OC alongside joints. Adjacent 18 in. wide units welded together 30 in. OC alongside joints. For 3 Hr Rating, units with overlapping type side joints welded together 24 in. OC max.

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	W8x28 Beam (see Note #1)	All Fluted Floor Units w/Light weight Concrete	Fluted Floor Units and Normal Weight Concrete Only	W12x16 Beam (see Note #1)	All Fluted Floor Unit (see Note #1)
1	1	1	1/2,	5/16,	5/16	11/16,	5/8,
			11/16#	11/16#		1-1/8#	1#
1-1/2	1	1	1/2,	5/16,	5/16	11/16,	5/8,
			11/16#	11/16#		1-1/8#	1#
1-1/2	1-1/2	1-1/2	13/16,	11/16,	5/8	1-1/8,	1,
			1-1/16#	1#		1-7/16#	1-3/8#
2	1	1	1/2,	5/16,	5/16	11/16,	5/8,
			11/16#	11/16#		1-1/8#	1#
2	2	2	1-1/16,	1,	7/8	1-7/16,	1-3/8,
			1-5/16#	1-3/16#		1-13/16#	1-9/16#
3	1-1/2	1-1/2	13/16	11/16	5/8	1-1/8	1
3	3	3	1-9/16	1-5/16	1-7/16	2-1/8	1-3/4
3	3	4	2	1-5/8	2	2-11/16	2-3/16

Note #1: Joists from the N series designs may be substituted for the listed beam. When joists are substituted, the restrained rating of the joist must be equal to or greater that the restrained rating of the assembly. Additional joist substitution requirements are contained in the front of the Fire Resistance Directory.

#This thickness applies when optional Item 10 is used over 3-1/4 in. light weight concrete topping.

The thicknesses of Spray-Applied Fire Resistive Materials shown in the table below are applicable when the thickness applied to the beams' lower flange edges is reduced to one-half that shown in the table.

The Unrestrained Assembly Rating is equal to the Unrestrained Beam Rating for a max of 3 Hr and is limited to the following floor units and spans:

(a) 1-1/2, 2 and 3 in. deep, 24 in. wide, 22 MSG or thicker fluted with clear spans not more than 7 ft, 8 in.

(b) 1-1/2, 2 and 3 in. deep, 24 in. wide, 20 MSG or thicker fluted with clear spans not more than 8 ft, 8 in.

(c) 1-1/2 and 2 in. deep, 24 in. wide, 16 MSG or thicker fluted and 18/18 MSG or thicker cellular with clear spans not more than 9 ft, 11 in.

(d) 3 in. deep, 36 in. wide, 18 MSG or thicker fluted and 24 in. wide, 20/18 MSG or thicker cellular with clear spans not more than 13 ft, 2 in.
For assemblies utilizing 3-1/4 in. lightweight concrete topping with a max Restrained Assembly Rating of 2 Hr, the Unrestrained Assembly Rating is equal to the Unrestrained Beam Rating and is limited to the following floor units and spans:

(a) 1-1/2, 2, and 3 in. deep, 24 or 36 in. wide, 22 MSG fluted and 20/20 MSG cellular with clear spans not more than 9 ft, 6 in.

(b) 2 and 3 in. deep, 24 or 36 in. wide 20 MSG fluted and 20/20 MSG cellular with clear spans not more than 10 ft, 0 in.

(c) 3 in. deep, 24 in. wide, 20 MSG fluted and 20/20 MSG cellular with clear spans not more than 13 ft, 2 in.

3A. **Steel Floor and Form Units* —** (not Shown) - As an alternate to Item 3. Nom 8 or 9 in. deep composite, galv steel units. Min thickness 0.0375 inch (20 MSG). Side joints of adjacent units fully overlapping, fastened together by using 1-1/4 in. long self-drilling, self-tapping steel screws driven through Shear-Bond Clips (not shown) at 13-3/4 in. OC. Steel end closures flashings (not shown) made of min 0.056 inch thick (16 MSG) galv steel, fixed to the steel work before decking is placed.
In addition to the Steel Floor and Form Units, the following components are required:

(a) Welded Wire Fabric — 6 X 6 - Min wire thickness W2.9 X W2.9 slab reinforcement. As an alternate, max # 4 bars spaced 12-in. OC in both directions shall be used. When re-bars are used, the concrete slab thickness shall be increased a minimum 5/16 in.

(b) Rib Reinforcement —Min. #4 rebar. Min concrete cover below the steel reinforcement shall be 1-9/16 in. Reinforcement support chairs spaced at max 41-1/2 inches OC.
The flute areas above the beam/joist are to be : (1) filled with concrete, (2) filled with Spray-Applied Fire Resistive Material or (3) the beam/joist coated with Spray-Applied Fire Resistive Material installed as described in the design to thickness required when all cellular Steel Floor and Form Units are used.

See Design No. D989 for a typical illustration of the components. Consult the deck manufacturer for comprehensive load tables and design parameters referencing UL Design D989.

BAILEY METAL PRODUCTS LTD — Type COMSLAB™ 210 and COMSLAB™ 225, Steel End Closure Flashing

4. **Spray-Applied Fire Resistive Materials —** Applied by mixing with water and spraying in one or more coats to a final thickness as shown in the tables below, to steel beam surfaces which must be clean and free of dirt, loose scale and oil. Min avg and min ind density of 15/14 pcf, respectively for Types MK-6/HY, MK-6/HY Extended Set, MK-6/HB, MK-6s, MK-6 GF, MK-6 GF Extended Set, MK-10 HB, MK-10 HB Extended Set, MK-1000/HB, MK-1000/HB Extended Set, RG. Min avg and min ind density of 22/19, respectively for Types Z-106, Z-106/G. For method of density determination, refer to Design Information Section.

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	W8x28 Beam Supporting (see Note #1)	W8x28 Beam Supporting All Fluted Floor Units w/Lightweight Concrete	W12x16 Beam Supporting (see Note #1)	W12x16 Beam Supporting All Fluted Floor Unit
1	1	1	9/16	7/16+	3/4	5/8
1-1/2	1	1	9/16	7/16+	3/4	5/8
1-1/2	1-1/2	1-1/2	7/8	3/4	1-3/16	1
2	1	1	9/16	7/16+	3/4	5/8
2	2	2	1-3/16	1	1-5/8	1-3/8
3	1-1/2	1-1/2	7/8	3/4	1-3/16	1
3	3	3	1-3/4	1-9/16	2-3/8	2-1/8
3	3	4	2-5/16	2-1/16	3-1/8	2-3/4

+Thickness applied to beams' lower flange edges shall be a minimum of 1/4 in.

ARABIAN VERMICULITE INDUSTRIES — Types MK-6/HY, MK-6/HY Extended Set, MK-6/HB, MK-6s, MK-6 GF, MK-6 GF Extended Set, MK-10 HB, MK-10 HB Extended Set, MK-1000/HB, MK-1000/HB Extended Set, Z-106, Z-106/G.

GCP KOREA INC — Types MK-6/HY, MK-6/HY Extended Set, MK-6/HB, MK-6s, MK-6 GF, MK-6 GF Extended Set, MK-10 HB, MK-10 HB Extended Set, MK-1000/HB, MK-1000/HB Extended Set, Z-106/G, Z-106.

GCP APPLIED TECHNOLOGIES INC — Types MK-6/HY, MK-6/HY Extended Set, MK-6/HB, MK-6s, MK-6 GF, MK-6 GF Extended Set, MK-10 HB, MK-10 HB Extended Set, MK-1000/HB, MK-1000/HB Extended Set, RG, Z-106/G, Z-106.

4A. **Alternate Spray-Applied Fire Resistive Materials —** Applied by mixing with water and spraying in one or more coats to a final thickness as shown in the tables below to steel beam surfaces which must be clean and free of dirt, loose scale and oil. The thicknesses shown in the table below are applicable to beams supporting all fluted floor or form units. Min avg and min ind density of 22/19 pcf respectively for Z-106/HY. For density determination refer to Design Information Section.

Restrained	Unrestrained	Unrestrained	W8x28 Beam Supporting (see Note #1)

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)

400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

March Adams & Associates
Consulting Engineers

310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

EDMUND G. GARBEE — REGISTERED ARCHITECT — STATE OF TENNESSEE
9/03/2021

DRAWN:	EG
CHECKED:	EG
JOB No.	21-008
DATE:	SEPTEMBER 3, 2021

Garbee Architecture
PH: 423.364.2830

1

ALS-1.16

BUILDING - A

UL Detail D925

Assembly Rating Hr	Assembly Rating Hr	Beam Rating Hr	All Fluted Floor Units w/Lightweight Concrete	Fluted Floor Units and Normal Weight Concrete Only
1	1	1	5/16, 11/16##	5/16
1-1/2	1-1/2	1-1/2	11/16, 1##	5/8
2	1	1	5/16, 11/16##	5/16
2	2	2	1, 1-3/16##	7/8
3	1-1/2	1-1/2	11/16	5/8
3	3	3	1-5/16	1-7/16
3	3	4	1-5/8	2

Note #1: Joists from the N series designs may be substituted for the listed beam. When joists are substituted, the restrained rating of the joist must be equal to or greater that the restrained rating of the assembly. Additional joist substitution requirements are contained in the front of the Fire Resistance Directory.

##This thickness applies when optional Item 10 is used over 3-1/4 in. light weight concrete topping.

ARABIAN VERMICULITE INDUSTRIES — Types Z-106/HY

GCP APPLIED TECHNOLOGIES INC — Type Z-106/HY.

GCP KOREA INC — Type Z-106/HY.

4B. **Alternate Spray-Applied Fire Resistive Materials —** Applied by mixing with water and spraying in one or more coats to a final thickness as shown in the tables below to steel beam surfaces which must be clean and free of dirt, loose scale and oil. The thicknesses shown in the table below are applicable to beams supporting all fluted floor or form units. Min avg and min ind density of 40/36 pcf respectively for Types AV-650, Z-146, Z-146PC and Z-146T cementitious mixture. Min avg and min ind density of 50/45 pcf respectively for Types AV800, Z-156, Z-156T and Z-156PC. For density determination refer to Design Information Section.

			W8x28 Beam Supporting (see Note #1)	
Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	All Fluted Floor Units w/Lightweight Concrete	Fluted Floor Units and Normal Weight Concrete Only
1	1	1	5/16, 11/16##	5/16
1-1/2	1-1/2	1-1/2	11/16, 1##	5/8
2	1	1	5/16, 11/16##	5/16
2	2	2	1, 1-3/16##	7/8
3	1-1/2	1-1/2	11/16	5/8
3	3	3	1-5/16	1-7/16
3	3	4	1-5/8	2

Note #1: Joists from the N series designs may be substituted for the listed beam. When joists are substituted, the restrained rating of the joist must be equal to or greater that the restrained rating of the assembly. Additional joist substitution requirements are contained in the front of the Fire Resistance Directory.

##This thickness applies when optional Item 10 is used over 3-1/4 in. light weight concrete topping.

ARABIAN VERMICULITE INDUSTRIES — Types AV-650, AV-800 and Z-146 investigated for exterior use.

GCP APPLIED TECHNOLOGIES INC — Type Z-146, Z-146T, Z146PC, Z-156, Z-156T and Z-156PC investigated for exterior use.

GCP KOREA INC — Type Z-146 investigated for exterior use.

4C. **Sprayed Fiber[a] —** (Optional, Not Shown) Sprayed Fiber, Classified for Surface Burning Characteristics (BNST), having a maximum applied density of 3.5 pcf applied over both Steel Floor and Form Units (Item 3 and 3A) and over Spray-Applied Fire Resistive Material (Item 4 through 4B) on Supports. Sprayed Fiber may be applied to the underside of Steel Floor and Form Units (Item 3 and 3A) at an unlimited thickness. Sprayed Fiber may be applied over Spray-Applied Fire Resistive Material (Item 4 through 4B) on Supports according to the following table:

Allowable Sprayed Fiber Thickness over SFRM applied to Beams

Installed SFRM Thickness (in.) on Beam	SFRM Density (lb/ft^3) 15	22	40	50
	Sprayed Fiber Thickness (in.)			
5/16	8	8	8	8
7/16	8	8	8	8
1/2	8	8	8	8
9/16	8	8	8	8
5/8	8	8	8	8
11/16	8	8	8	8
3/4	8	8	8	8
13/16	8	8	8	8
7/8	8	8	8	8
1	8	8	8	8
1-1/16	8	8	8	8
1-1/8	8	8	8	8
1-3/16	8	8	8	8
1-5/16	7-3/4	8	8	8
1-3/8	7-1/2	8	8	8
1-7/16	7-1/4	8	8	8
1-9/16	6-11/16	8	8	8
1-5/8	6-7/16	8	7-7/8	8
1-3/4	5-7/8	8	6-7/16	8
1-13/16	5-5/8	8	5-11/16	7-1/8
2	4-13/16	7-1/16	3-9/16	4-7/16
2-1/16	4-9/16	6-11/16	2-7/8	3-9/16
2-1/8	4-5/16	6-5/16	2-1/8	2-11/16
2-3/16	4	5-7/8	1-7/16	1-13/16
2-5/16	3-1/2	5-1/8	0	0
2-3/8	3-3/16	4-11/16	0	0
2-11/16	1-14/16	2-12/16	0	0
2-3/4	1-10/16	2-6/16	0	0
3-1/8	0	0	0	0

INTERNATIONAL CELLULOSE CORP — Type K13, URE-K, or SonaSpray FC

4D. **Sprayed Fiber[a] —** (Optional, Not Shown) Sprayed Fiber, Classified for Surface Burning Characteristics (BNST), having a maximum applied density of 2.8 pcf applied over both Steel Floor and Form Units (Item 3 and 3A) and over Spray-Applied Fire Resistive Material (Item 4 through 4B) on Supports. Sprayed Fiber may be applied to the underside of Steel Floor and Form Units (Item 3 and 3A) at an unlimited thickness. Sprayed Fiber may be applied over Spray-Applied Fire Resistive Material (Item 4 through 4B) on Supports according to the following table:

Allowable Sprayed Fiber Thickness over SFRM applied to Beams

Installed SFRM Thickness (in.) on Beam	SFRM Density (lb/ft^3) 15	22	40	50
	Sprayed Fiber Thickness (in.)			
5/16	5	5	5	5
7/16	5	5	5	5
1/2	5	5	5	5
9/16	5	5	5	5
5/8	5	5	5	5
11/16	5	5	5	5
3/4	5	5	5	5
13/16	5	5	5	5
7/8	5	5	5	5
1	5	5	5	5
1-1/16	5	5	5	5
1-1/8	5	5	5	5
1-3/16	5	5	5	5
1-5/16	5	5	5	5
1-3/8	5	5	5	5

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)
400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

March Adams & Associates
Consulting Engineers
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

EDMUND G. GARBEE — REGISTERED ARCHITECT — STATE OF TENNESSEE
9/03/2021

DRAWN:	EG
CHECKED:	EG
JOB No.	21-008
DATE:	SEPTEMBER 3, 2021

1

ALS-1.17

BUILDING - A

UL Detail D925

Garbee Architecture
PH: 423.364.2830

1-7/16	5	5	5	5
1-9/16	5	5	5	5
1-5/8	5	5	5	5
1-3/4	5	5	5	5
1-13/16	5	5	5	5
2	5	5	4 7/16	5
2-1/16	5	5	3 9/16	4 7/16
2-1/8	5	5	2 11/16	3 3/8
2-3/16	5	5	1 13/16	2 1/4
2-5/16	4 3/8	5	0	0
2-3/8	4	5	0	0
2-11/16	2 3/8	3 7/16	0	0
2-3/4	2	2 15/16	0	0
3-1/8	0	0	0	0

MONOGLASS INC — Type Monoglass

4E. **Sprayed Fiber* —** (Optional, Not Shown) Sprayed Fiber, Classified for Noncombustible Building Materials (BICW), having a maximum applied density of 3.5 pcf applied over both Steel Floor and Form Units (Item 3 and 3A) and over Spray-Applied Fire Resistive Material (Item 4 through 4B) on Supports. Sprayed Fiber may be applied to the underside of Steel Floor and Form Units (Item 3 and 3A) at an unlimited thickness. Sprayed Fiber may be applied over Spray-Applied Fire Resistive Material (Item 4 through 4B) on Supports according to the following table:

Allowable Sprayed Fiber Thickness over SFRM applied to Beams

Installed SFRM Thickness (in.) on Beam	SFRM Density (lb/ft³) 15	22	40	50
	Sprayed Fiber Thickness (in.)			
5/16	5	5	5	5
7/16	5	5	5	5
1/2	5	5	5	5
9/16	5	5	5	5
5/8	5	5	5	5
11/16	5	5	5	5
3/4	5	5	5	5
13/16	5	5	5	5
7/8	5	5	5	5
1	5	5	5	5
1-1/16	5	5	5	5
1-1/8	5	5	5	5
1-3/16	5	5	5	5
1-5/16	5	5	5	5
1-3/8	5	5	5	5
1-7/16	5	5	5	5
1-9/16	5	5	5	5
1-5/8	5	5	5	5
1-3/4	5	5	5	5
1-13/16	5	5	5	5
2	4-13/16	5	3-9/16	4-7/16
2-1/16	4-9/16	5	2-7/8	3-9/16
2-1/8	4-5/16	5	2-1/8	2-11/16
2-3/16	4	5	1-7/16	1-13/16
2-5/16	3-1/2	5	0	0
2-3/8	3-3/16	4-11/16	0	0
2-11/16	1-7/8	2-3/4	0	0
2-3/4	1-5/8	2-3/8	0	0
3-1/8	0	0	0	0

THERMACOUSTIC IND. — Type TC-417

5. **Shear-Connector-Studs-Optional —** Studs 3/4 in. diam by 3 in. long, for 1-1/2 in. deep form units to 5-1/4 in. long for 3 in. deep form units, headed type or equivalent per AISC specifications. Welded to the top flange of the beam through the steel form units.

6. **Electrical Inserts —** (Not shown) Classified as "Outlet Boxes and Fittings Classified for Fire Resistance".
H H ROBERTSON — Preset Inserts.

For use with 2-1/2 in. lightweight concrete topping over QL-WKX steel floor units. Installed over factory-punched holes in floor units per accompanying installation instructions. Spacing shall not be more than one insert in each 14 sq ft of floor area with spacing along floor units not less than 48 in. OC. The holes cut in insert cover for passage of wires shall be no more than 1/8 in. larger diam than wire. Restrained Assembly Rating is 3/4 hr with Tapmate II-FS-1 and 1 hr with Tapmate II-FS-2 inserts.

H H ROBERTSON — Tapmate II-FS-1, II-FS-2; Series KEB.

WIREMOLD CO — After set Inserts. Single-service after set inserts installed per accompanying installation instructions in 2-1/2 in. diam hole core-drilled through min 3-1/4 in. thick concrete topping to top of cell of any min 3 in. deep cellular steel floor unit specified under Item 3. Spacing shall be no more than one insert in each 10 sq ft of floor area in each span with a min center to center spacing of 16 in. If the high potential and low potential raceways of the cellular steel floor unit are separated by a valley filled with concrete, the center to center spacing of the high potential and low potential single-service after set inserts may be reduced to a min of 7-1/2 in. Restrained Assembly Rating is 2 hr or less with internally protected Type 436 after set insert with Type M4-, M6- or M8- Series single-service activation fitting.

WIREMOLD CO — — Internally protected Type 436 after set insert with Type M4-, M6- or M8- Series single-service activation fitting.

7. **Roof Covering Materials* —** (Optional, not shown) Consisting of materials compatible with insulations described herein which provide Class A, B or C coverings. See Roofing Materials and Systems Directory - Roof Covering Materials (TEVT).

8. **Insulating Concrete —** (not shown) Optional. Various types of insulating concrete prepared and applied in the thickness indicated:
A. **Vermiculite Concrete** — (not shown) Optional.
1. Blend 6 to 8 cu ft of Vermiculite Aggregate* to 94 lb Portland Cement and air entraining agent. Min thickness of 2 in. as measured to the top surface of the structural concrete or foamed plastic (Item 9) when it is used.
SIPLAST INC

VERMICULITE PRODUCTS INC

2. Blend 3.5 cu ft. of Type NVC Concrete Aggregate* or Type NVS Vermiculite Aggregate* to 94 lb Portland Cement. Slurry coat, 1/8 in. thickness beneath foamed plastic (Item 9) when used, 1 in. min topping thickness.
SIPLAST INC

VERMICULITE PRODUCTS INC

Vermiculite concrete may be covered with Roof Covering Materials (Item 7).

B. **Cellular Concrete-Roof Topping Mixture* —** Concentrate mixed with water and Portland Cement per manufacturers specifications. Min. thickness of 2-in. as measured to the top surface of the structural concrete or foamed plastic (Item 9) when used. 28-day min compressive strength of 190 psi as determined with ASTM C495-66.
CELCORE INC — Type Celcore with cast dry density of 31 (+ or - 3.0) pcf or Type Celcore MF with cast dry density of 29 (+ or - 3.0) pcf.

AERIX INDUSTRIES — Cast dry density of 37 (+ or -) 3.0 pcf.

ELASTIZELL CORP OF AMERICA — Type II. Mix #1 of cast dry density 39 (+ or -) 3.0 pcf, Mix #2 of cast dry density 40 (+ or -) 3.0 pcf, Mix #3 of cast dry density 47 (+ or -) 3.0 pcf.

SIPLAST INC — Mix No. 1 or 2. Cast dry density of 32+3 (Mix No. 1) or 36+3 (mix No. 2) pcf.

C. **Perlite Concrete —** Mix consists of 6.2 cu ft Perlite Aggregate* to 94 lbs of Portland cement and 1-1/2 pt air entraining agent. Compressive strength 80 psi min.
See Perlite Aggregate (CFFX) category for names of Classified companies.

D. **Cellular Concrete-Roof Topping Mixture* —** Foam Concentrate mixed with water, Portland Cement and UL Classified Vermiculite Aggregate per manufacturer's application instructions. Cast dry density of 33 (+ or -) 3.0 pcf and 28-day compressive strength of min 250 psi as determined in accordance with ASTM C495-86.
AERIX INDUSTRIES — Mix No. 3.

SIPLAST INC — Mix No. 3.

E. **Floor Topping Mixture* (Optional, not shown) —** Approx 4.5 gal of water to 41 lbs of NVS Premix floor topping mixture. Slurry coat 1/8 in. thickness beneath foamed plastic (Item 9) when used, 1 in. min topping thickness.
SIPLAST INC

Floor Topping Mixture may be covered with Built-Up or Single Membrane Roof Covering.

9. **Foamed Plastic* —** (Optional-not shown) For use only with vermiculate or cellular concretes or Floor Topping mixture (Item 8E) -Rigid polystyrene foamed plastic insulation having slots and/or holes sandwiched between vermiculite concrete slurry which is applied to the normal or lightweight concrete surface and concrete topping.
SIPLAST INC

VERMICULITE PRODUCTS INC

10. **Roof Insulation-Mineral and Fiber Boards* or Foamed Plastic* —** (Optional, not shown, Not for use with Item 3A)) — Mineral and fiber boards or polyisocyanurate roof insulation applied over concrete floor with no restriction on board thickness. When mineral and fiber boards or polyisocyanurate roof insulation are used the unrestrained beam rating shall be increased by a min of 1/2 hr. See Mineral and Fiber Boards (CERZ) or Foamed Plastic (CCVW) category for names of Manufacturers.

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)
400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

March Adams & Associates
Consulting Engineers
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

EDMUND G. GARBEE — REGISTERED ARCHITECT — STATE OF TENNESSEE
9/03/2021

DRAWN:	EG
CHECKED:	EG
JOB No.	21-008
DATE:	SEPTEMBER 3, 2021

1

ALS-1.18

BUILDING - A

UL Detail D925

Garbee Architecture
PH: 423.364.2830

11. **Roof Insulation-Mineral and Fiber Boards* or Foamed Plastic* —** (Optional, not shown, Not for use with Item 3A)) — Mineral and fiber boards or polyisocyanurate roof insulation applied over concrete floor with no restriction on board thickness. When mineral and fiber boards or polyisocyanurate roof insulation are used the thickness of Spray-Applied Fire Resistive Materials shown in the table below are applicable when the thickness applied to the beams' lower flange edges is reduced by one-half and the beams are supporting solid concrete slabs or floor assemblies containing only fluted floor or form units with lightweight concrete. The table below is applicable when W8x28 or alternate (per BXUV Category Guide in the front of the Fire Resistance Directory) steel beam is used. See Mineral and Fiber Boards (CERZ) or Foamed Plastic (CCVW) category for names of Manufacturers.

Min Thkns in.

Rating Hr	Restrained Beam	Unrestrained Beam
1	7/16+	3/4
1-1/2	11/16	1
2	15/16	1-1/4
3	1-7/16	1-11/16

+ Thickness applied to beams' lower flange edges shall be a min of 1/4 in.

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

Last Updated on 2021-12-16

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)

400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

March Adams & Associates
Consulting Engineers

310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

EDMUND G. GARBEE — REGISTERED ARCHITECT — STATE OF TENNESSEE
3/03/2021

DRAWN:	EG
CHECKED:	EG
JOB No.	21-008
DATE:	SEPTEMBER 3, 2021

Garbee Architecture
PH: 423.364.2830

1

ALS-1.19

BUILDING - A

UL Detail D925

UL Product iQ™

BXUV.U902 - Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

Fire-resistance Ratings - ANSI/UL 263

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

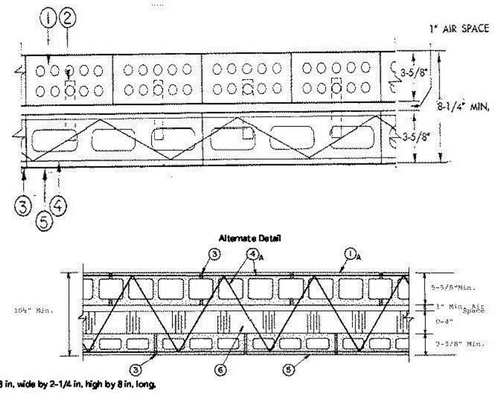
See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. U902

Bearing Wall Rating — 4 HR.
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 Canada, a load restriction factor shall be used — See Guide 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. Clay Face Brick — 3-5/8 in. wide by 2-1/4 in. high by 8 in. long.

1A. Concrete Blocks* — Various designs, Classification D-2 (2 h).
See Concrete Blocks category for list of eligible manufacturers.

2. Brick Ties — 3/4 in. wide, 7 in. long corrugated 26 MSG galv steel. Spaced one to each brick in every second course of blocks.

3. Mortar — Bricks and blocks laid in full bed of mortar nom. 3/8 in. thick of not less than 2-1/4 and not more than 3-1/2 parts clean sharp sand to 1 part Portland cement (proportioned by vol) and not more than 50 percent hydrated lime (by cement vol). Vertical joints staggered.

4. Reinforcement — Parallel and diagonal rods, 0.130 in. min diam with welded joints a max 16 in. OC. Placed the width of concrete block wall in every second course of blocks alternately with brick ties.

4A. **Masonry Reinforcement —** Prefabricated steel reinforcement, truss or ladder type, used for embedment in every second horizontal mortar joint. Placed the full width of wall assembly. Side and cross rods No. 9 (0.150 in.) min diam with welded joints a max 16 in. OC.

5. **Concrete Blocks* —** Various designs Classification D-2 (2 h). See Concrete Blocks category for list of eligible manufacturers.

6. **Foamed Plastic* —** (Optional — Not shown with clay face brick detail) Rigid polystyrene insulation for use between brick and/or concrete blocks. One or more layers of rigid extruded polystyrene insulation, 4 in. thick max having 1 in. min air space with face brick or blocks.
ATLAS MOLDED PRODUCTS, A DIVISION OF ATLAS ROOFING CORPORATION — Type ThermalStar

OC CELFORTEC LP

OWENS CORNING SCIENCE AND TECHNOLOGY, LLC — Types 150 or 250

DUPONT DE NEMOURS, INC. — Type Styrofoam

6A. **Foamed Plastic* —** (Optional-Not shown with clay face brick detail). Rigid polyisocyanurate insulation for use between brick and/or concrete blocks. One or more layers of rigid extruded polystyrene insulation, 4 in. thick max having 1 in. min air space with face brick or blocks.
ATLAS ROOFING CORP — "EnergyShield Pro Wall Insulation", "EnergyShield Pro 2 Wall Insulation", EnergyShield CGF Pro and EnergyShield Ply Pro

CARLISLE COATINGS & WATERPROOFING INC — Type R2+ SHEATHE

DUPONT DE NEMOURS, INC. — Type Thermax Sheathing, Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax ci Exterior Insulation, Thermax XARMOR ci Exterior Insulation, Thermax IH Insulation, Thermax Plus Liner Panel, Thermax Heavy Duty Plus (HDP), TUFF-R™ ci Insulation, Thermax Butler Stylwall Insulation Board and Thermax Morton Heavy Duty Insulation Board

FIRESTONE BUILDING PRODUCTS CO L L C — "Enverge™ CI Foil Exterior Wall Insulation" and "Enverge™ CI Glass Exterior Wall Insulation"

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — Type "Xci-Class A", "Xci 286", "Xci Foil (Class A)", "Xci CG", "Xci Foil", "Xci CG NH", "Xci Foil NH"

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — — Types "TSX-8500", "ECOMAXci FR", "TSX-8510", "ECOMAX xi FR White", "ECOMAXci", "ECOMAXci FR Air Barrier", "Thermasheath-XP", "Thermasheath", "Durasheath", "Thermasheath-3", "Durasheath-3".

JOHNS MANVILLE — Type "AP Foil-Faced Foam Sheathing"

6B. **Foamed Plastic* —** (Optional-Not shown with clay face brick detail). Two-component foamed plastic formed from NCFI 11-001, NCFI 11-002, NCFI 11-015, NCFI 11-016 or NCFI11-017 spray applied between brick and/or concrete blocks at a nominal density of 2.1 pcf, 4 in. thick max, having a 1 in. min air space with face brick or blocks.
NCFI POLYURETHANES

6C. **Foamed Plastic* —** (Optional-Not shown with clay face brick detail). Spray applied, foamed plastic insulation spray applied between brick and/or concrete blocks, having a 1 in. min air space with face brick or blocks.
BASF CORP — Enertite® NM, Enertite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, FE137®, FE158®, Spraytite® 158, Spraytite® SP and Spraytite® 81205.

6D. **Building Unit* —** (Optional-Not shown with clay face brick detail). Rigid polyisocyanurate composite insulation for use between brick and/or concrete blocks.
HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — Type "Xci NB" and "Xci Ply"

LAMINATORS INC — Type "Omega ci"

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — "Thermasheath-Si", "ECOBASEci", "ThermaBase-CI", "ECOMAXci FR Ply", "ECOMAXci Ply".

6E. **Foamed Plastic* —** (Optional-Not shown with clay face brick detail) — Expanded polystyrene insulation installed to a maximum nominal density of 2.0 lb/ft^2.

BASF CORP STYRENIC FOAMS DIV — Type Neopor "F" Series

6F. **Insulation* —** (Optional - Not shown - Used in lieu of item 6) - Mineral wool insulation boards, min. 1 inch thick, max. 4 in. thick.
THERMAFIBER INC — Types RainBarrier 45, RainBarrier HD, RainBarrier ci High Compressive, Rain Barrier ci High Compressive Plus, RainBarrier ci High Compressive Max

6G. **Insulation — Mineral and Fiber Boards * —** (Optional - Not shown - Used in lieu of item 6) - Mineral wool insulation boards, min. 1 inch thick, max. 4 in. thick.
ROCKWOOL — Type Comfortboard

7. Wall and Partition Facing and Accessories — (Not Shown) Installed in accordance with the manufacturers installation instructions. Min. 0.25 in. (6 mm) thick panel fastened to the exterior surface.
KEENE BUILDING PRODUCTS CO INC — Types Driwall Rainscreen 020, Driwall Rainscreen 10 and CAV-AIR-ATOR

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**
Last Updated on 2021-06-24

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)

400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

March Adams & Associates
Consulting Engineers

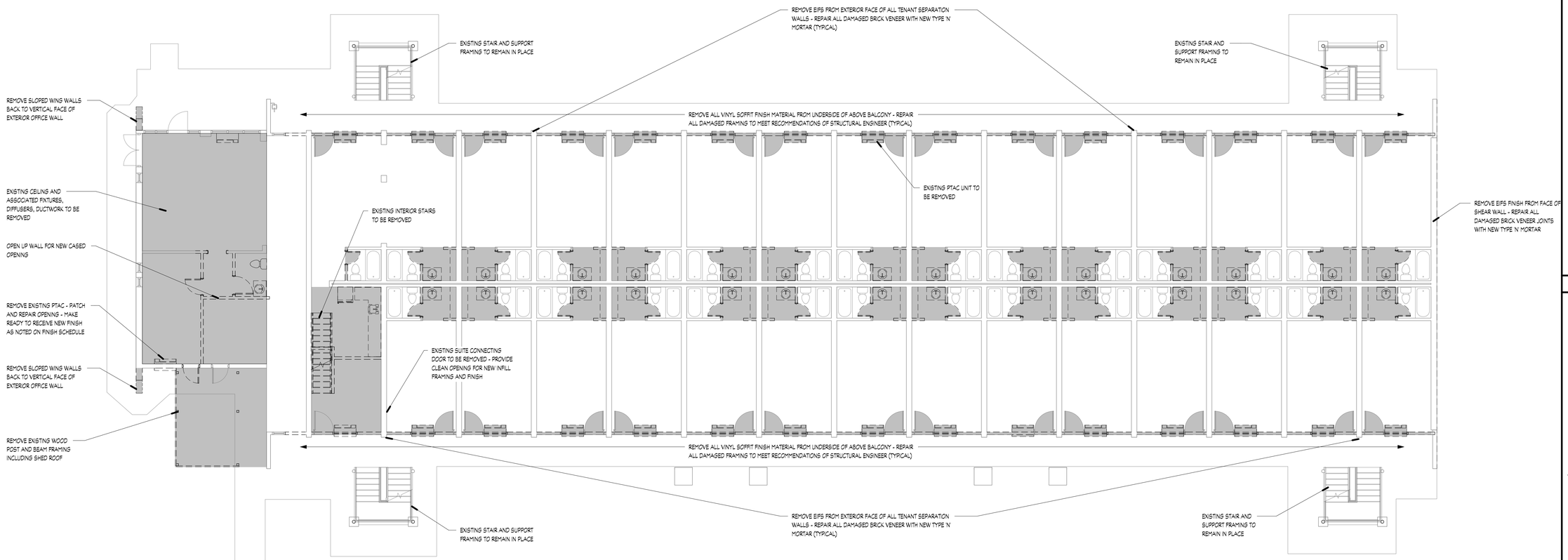
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

EDMUND G. GARBEE — REGISTERED ARCHITECT — STATE OF TENNESSEE
9/03/2021

DRAWN:	EG
CHECKED:	EG
JOB No.	21-008
DATE:	SEPTEMBER 3, 2021

Garbee Architecture
PH: 423.364.2830

1
ALS-1.20
BUILDING - A
UL Detail U902



1 Level 1 Demolition Plan

1/8" = 1'-0"

DEMOLITION PLAN LEGEND

- SPECIFIC ITEM TO BE DEMOLISHED/REMOVED
- AREA CONTAINING DEMOLITION WORK
- DEMOLITION NOTE INDICATING SPECIFIC WORK

GENERAL DEMOLITION NOTES

1. GENERAL DEMOLITION NOTES APPLY TO THE OVERALL TENANT SPACE HOWEVER SPECIFIC NOTES MAY BE INDICATED ON THE DEMOLITION FLOOR PLAN.

2. CONTRACTOR TO LIMIT DEMOLITION TO IMMEDIATE AREA AFFECTED BY ITEM NOTED FOR DEMOLITION UNLESS NOTED OTHERWISE.

3. WHERE DEMOLITION REQUIRES EQUIPMENT TO BE REMOVED CONTRACTOR SHALL REPAIR REMAINING SURFACES (WALLS, FLOORS, ROOF STRUCTURE) TO PROVIDE A CLEAN SMOOTH SURFACE READY TO RECEIVE NEW FINISHES AS NOTED ON FINISH SCHEDULE

4. REMOVE EXISTING LIGHTING FIXTURES THAT CONFLICT WITH NEW WALL LOCATIONS. SAVE FIXTURES FOR POSSIBLE REUSE.

5. EXISTING PLUMBING FIXTURES TO REMAIN IN PLACE UNLESS NOTED OTHERWISE.

6. WHERE EXISTING PLUMBING FIXTURES HAVE BEEN REMOVED, CAP ABANDONED LINES AND/OR REMOVE TO PROVIDE ROOM FOR NEW PLUMBING INSTALLATION.

7. ALL DOORS SHOWN ON DEMOLITION PLAN SHALL BE REMOVED AND STORED AT OWNER'S DIRECTION UNLESS NOTED OTHERWISE.

8. WHERE EXISTING ELECTRICAL OUTLETS ARE LOCATED IN EXISTING ROOMS, REMOVE OUTLET COVERS AND PREPARE WALL FOR NEW FINISHES.

9. CLEAN AND REPAIR ALL EXISTING WALL SURFACES AND PREPARE EXISTING SURFACE FOR APPLICATION OF NEW FINISHES AS NOTED ON FINISH SCHEDULE.

10. REMOVE ALL EXISTING TILE AND UNDERLAYMENT IN TOILETS. PREPARE SUB-FLOOR TO RECEIVE NEW FINISHES.

11. WHERE EXISTING OPENINGS PENETRATE A WALL TO REMAIN, ALL OPENINGS ARE TO BE PATCHED WITH NEW CONSTRUCTION TO MATCH FINISHED PRODUCT.

12. WHERE IDENTIFIED ON DEMOLITION PLAN BY GREY SHADED AREA, ALL DEMOLITION WORK TO REMOVE EXISTING FINISHES, SURFACES, FIXTURES, ELECTRICAL, PLUMBING AND MECHANICAL COMPONENTS. EXISTING STRUCTURAL FRAMING TO REMAIN IN PLACE UNLESS NOTED OTHERWISE.

13. ALL INTERIOR ROOMS TO HAVE EXISTING FLOOR FINISHES REMOVED DOWN TO SUB-FLOOR - REMAINING SURFACES TO BE CLEANED AND PREPARED FOR NEW FINISH INSTALLATION.

14. WHERE DEMOLITION EXPOSES DAMAGED OR WEAKENED FRAMING, CONTRACTOR TO CONFERE WITH ARCHITECT PRIOR TO COMMENCING WITH REPLACEMENT FRAMING MATERIAL.

15. CONTRACTOR TO CONFIRM HEIGHT AND BALUSTER SPACING OF EXISTING BALCONY RAILING - ALL RAILING TO BE REMOVED WHERE HEIGHT IS LESS THAN 42" AFF AND BALUSTER SPACING IS LESS THAN 4" O/C HORIZONTAL (TYP.)

16. CONTRACTOR TO REMOVE ALL EXTERIOR LIGHTING WITH THE EXCEPTION OF FIXTURES MOUNTED ON THE EXTERIOR SHARED TENANT WALLS BETWEEN ROOMS. THESE FIXTURES TO BE CLEANED AND/OR REPAIRED AND REINSTALLED FOR CONTINUED OPERATION.

Revisions

#	REVISION	DATE

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)
400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

March Adams & Associates
Consulting Engineers
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

Garbee Architecture
PH: 423.364.2830

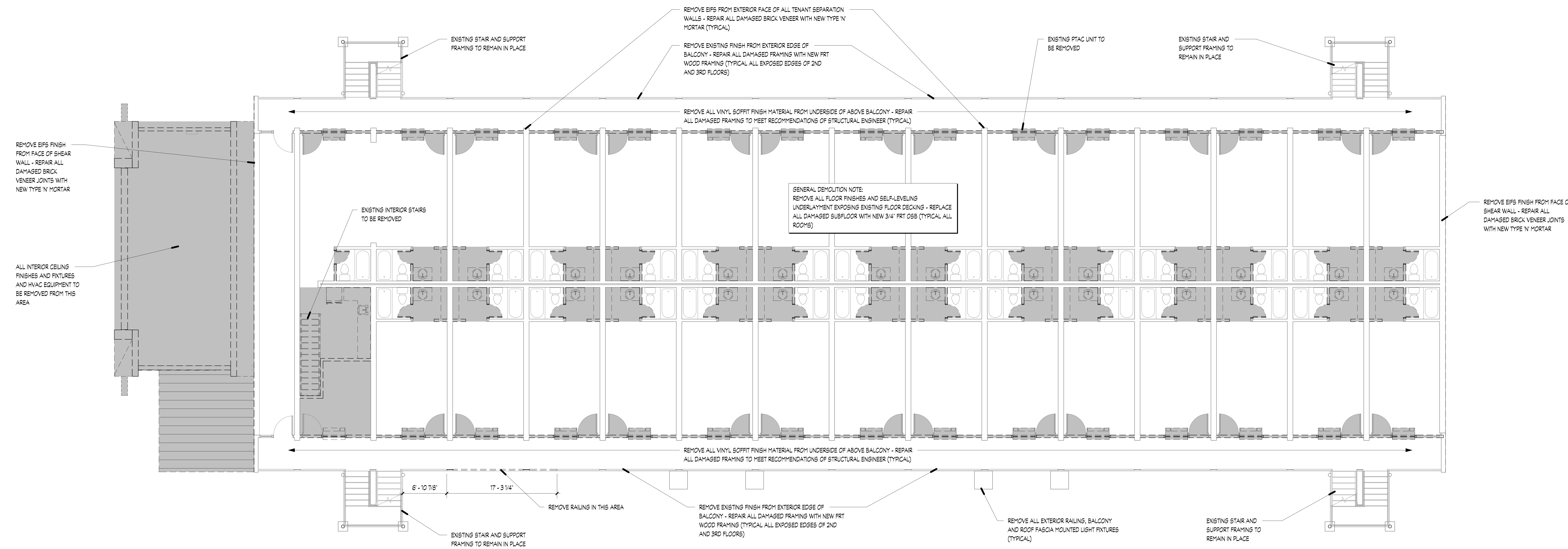
EDMUND G. GARBEE — REGISTERED ARCHITECT — STATE OF TENNESSEE
9/03/2021

DRAWN:	EG
CHECKED:	EG
JOB No.	21-008
DATE:	September 3, 2021

AD-1.1

BUILDING - A

Level 1 Demolition Plan



1 Level 2 Demolition Plan

1/8" = 1'-0"

DEMOLITION PLAN LEGEND

- SPECIFIC ITEM TO BE DEMOLISHED/REMOVED
- AREA CONTAINING DEMOLITION WORK
- DEMOLITION NOTE INDICATING SPECIFIC WORK

GENERAL DEMOLITION NOTES

1. GENERAL DEMOLITION NOTES APPLY TO THE OVERALL TENANT SPACE HOWEVER SPECIFIC NOTES MAY BE INDICATED ON THE DEMOLITION FLOOR PLAN.

2. CONTRACTOR TO LIMIT DEMOLITION TO IMMEDIATE AREA AFFECTED BY ITEM NOTED FOR DEMOLITION UNLESS NOTED OTHERWISE.

3. WHERE DEMOLITION REQUIRES EQUIPMENT TO BE REMOVED CONTRACTOR SHALL REPAIR REMAINING SURFACES (WALLS, FLOORS, ROOF STRUCTURE) TO PROVIDE A CLEAN SMOOTH SURFACE READY TO RECEIVE NEW FINISHES AS NOTED ON FINISH SCHEDULE

4. REMOVE EXISTING LIGHTING FIXTURES THAT CONFLICT WITH NEW WALL LOCATIONS. SAVE FIXTURES FOR POSSIBLE REUSE.

5. EXISTING PLUMBING FIXTURES TO REMAIN IN PLACE UNLESS NOTED OTHERWISE.

6. WHERE EXISTING PLUMBING FIXTURES HAVE BEEN REMOVED, CAP ABANDONED LINES AND/OR REMOVE TO PROVIDE ROOM FOR NEW PLUMBING INSTALLATION.

7. ALL DOORS SHOWN ON DEMOLITION PLAN SHALL BE REMOVED AND STORED AT OWNER'S DIRECTION UNLESS NOTED OTHERWISE.

8. WHERE EXISTING ELECTRICAL OUTLETS ARE LOCATED IN EXISTING ROOMS, REMOVE OUTLET COVERS AND PREPARE WALL FOR NEW FINISHES.

9. CLEAN AND REPAIR ALL EXISTING WALL SURFACES AND PREPARE EXISTING SURFACE FOR APPLICATION OF NEW FINISHES AS NOTED ON FINISH SCHEDULE.

10. REMOVE ALL EXISTING TILE AND UNDERLAYMENT IN TOILETS. PREPARE SUB-FLOOR TO RECEIVE NEW FINISHES.

11. WHERE EXISTING OPENINGS PENETRATE A WALL TO REMAIN, ALL OPENINGS ARE TO BE PATCHED WITH NEW CONSTRUCTION TO MATCH FINISHED PRODUCT.

12. WHERE IDENTIFIED ON DEMOLITION PLAN BY GREY SHADED AREA, ALL DEMOLITION WORK TO REMOVE EXISTING FINISHES, SURFACES, FIXTURES, ELECTRICAL, PLUMBING AND MECHANICAL COMPONENTS. EXISTING STRUCTURAL FRAMING TO REMAIN IN PLACE UNLESS NOTED OTHERWISE.

13. ALL INTERIOR ROOMS TO HAVE EXISTING FLOOR FINISHES REMOVED DOWN TO SUB-FLOOR - REMAINING SURFACES TO BE CLEANED AND PREPARED FOR NEW FINISH INSTALLATION.

14. WHERE DEMOLITION EXPOSES DAMAGED OR WEAKENED FRAMING, CONTRACTOR TO CONFERE WITH ARCHITECT PRIOR TO COMMENCING WITH REPLACEMENT FRAMING MATERIAL.

15. CONTRACTOR TO CONFIRM HEIGHT AND BALUSTER SPACING OF EXISTING BALCONY RAILING - ALL RAILING TO BE REMOVED WHERE HEIGHT IS LESS THAN 42" AFF AND BALUSTER SPACING IS LESS THAN 4" O/C HORIZONTAL (TYP.)

16. CONTRACTOR TO REMOVE ALL EXTERIOR LIGHTING WITH THE EXCEPTION OF FIXTURES MOUNTED ON THE EXTERIOR SHARED TENANT WALLS BETWEEN ROOMS. THESE FIXTURES TO BE CLEANED AND/OR REPAIRED AND REINSTALLED FOR CONTINUED OPERATION.

Revisions

#	REVISION	DATE

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)
400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

MA &A
March Adams & Associates
Consulting Engineers
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

9/03/2021

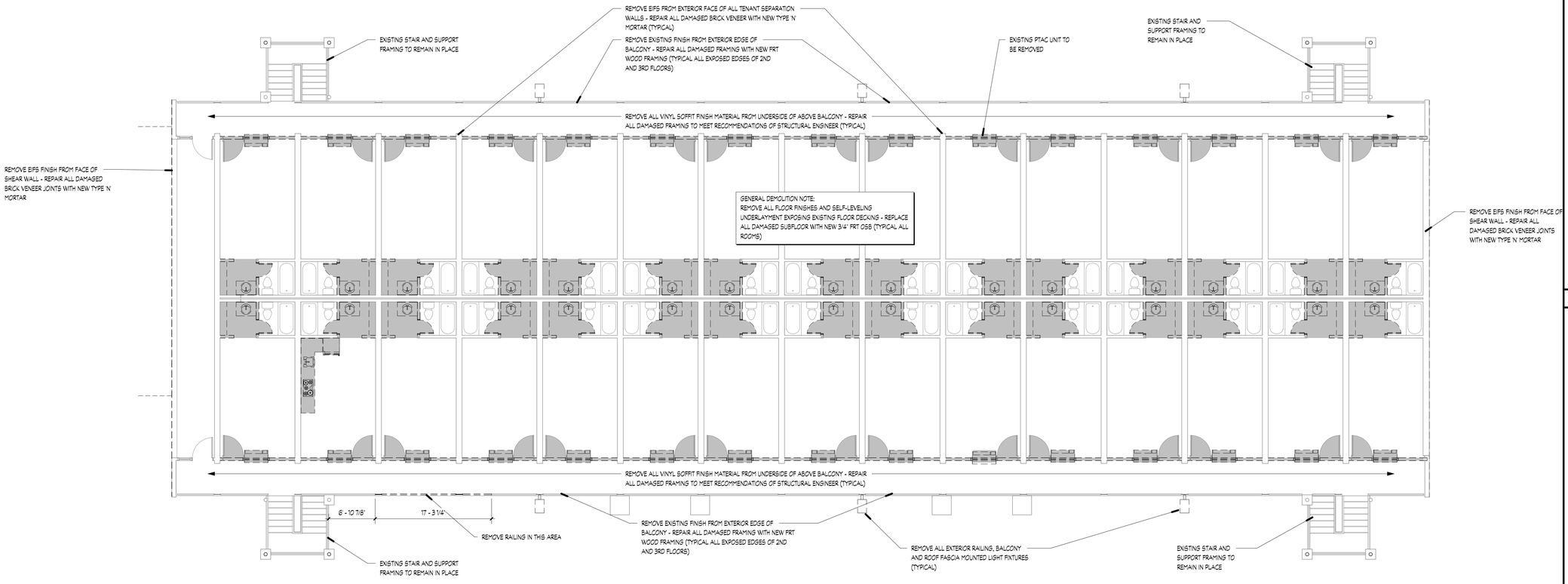
DRAWN:	EG
CHECKED:	EG
JOB No.	21-008
DATE:	September 3, 2021

AD-1.2

BUILDING - A

Level 2 Demolition Plan

Garbee Architecture
PH: 423.364.2830



1 Level 3 Demolition Plan

1/8" = 1'-0"

DEMOLITION PLAN LEGEND

- SPECIFIC ITEM TO BE DEMOLISHED/REMOVED
- AREA CONTAINING DEMOLITION WORK
- DEMOLITION NOTE INDICATING SPECIFIC WORK

GENERAL DEMOLITION NOTES

1. GENERAL DEMOLITION NOTES APPLY TO THE OVERALL TENANT SPACE HOWEVER SPECIFIC NOTES MAY BE INDICATED ON THE DEMOLITION FLOOR PLAN.

2. CONTRACTOR TO LIMIT DEMOLITION TO IMMEDIATE AREA AFFECTED BY ITEM NOTED FOR DEMOLITION UNLESS NOTED OTHERWISE.

3. WHERE DEMOLITION REQUIRES EQUIPMENT TO BE REMOVED CONTRACTOR SHALL REPAIR REMAINING SURFACES (WALLS, FLOORS, ROOF STRUCTURE) TO PROVIDE A CLEAN SMOOTH SURFACE READY TO RECEIVE NEW FINISHES AS NOTED ON FINISH SCHEDULE

4. REMOVE EXISTING LIGHTING FIXTURES THAT CONFLICT WITH NEW WALL LOCATIONS. SAVE FIXTURES FOR POSSIBLE REUSE.

5. EXISTING PLUMBING FIXTURES TO REMAIN IN PLACE UNLESS NOTED OTHERWISE.

6. WHERE EXISTING PLUMBING FIXTURES HAVE BEEN REMOVED, CAP ABANDONED LINES AND/OR REMOVE TO PROVIDE ROOM FOR NEW PLUMBING INSTALLATION.

7. ALL DOORS SHOWN ON DEMOLITION PLAN SHALL BE REMOVED AND STORED AT OWNER'S DIRECTION UNLESS NOTED OTHERWISE.

8. WHERE EXISTING ELECTRICAL OUTLETS ARE LOCATED IN EXISTING ROOMS, REMOVE OUTLET COVERS AND PREPARE WALL FOR NEW FINISHES.

9. CLEAN AND REPAIR ALL EXISTING WALL SURFACES AND PREPARE EXISTING SURFACE FOR APPLICATION OF NEW FINISHES AS NOTED ON FINISH SCHEDULE.

10. REMOVE ALL EXISTING TILE AND UNDERLAYMENT IN TOILETS. PREPARE SUB-FLOOR TO RECEIVE NEW FINISHES.

11. WHERE EXISTING OPENINGS PENETRATE A WALL TO REMAIN, ALL OPENINGS ARE TO BE PATCHED WITH NEW CONSTRUCTION TO MATCH FINISHED PRODUCT.

12. WHERE IDENTIFIED ON DEMOLITION PLAN BY GREY SHADED AREA, ALL DEMOLITION WORK TO REMOVE EXISTING FINISHES, SURFACES, FIXTURES, ELECTRICAL, PLUMBING AND MECHANICAL COMPONENTS. EXISTING STRUCTURAL FRAMING TO REMAIN IN PLACE UNLESS NOTED OTHERWISE.

13. ALL INTERIOR ROOMS TO HAVE EXISTING FLOOR FINISHES REMOVED DOWN TO SUB-FLOOR - REMAINING SURFACES TO BE CLEANED AND PREPARED FOR NEW FINISH INSTALLATION.

14. WHERE DEMOLITION EXPOSES DAMAGED OR WEAKENED FRAMING, CONTRACTOR TO CONFERE WITH ARCHITECT PRIOR TO COMMENCING WITH REPLACEMENT FRAMING MATERIAL.

15. CONTRACTOR TO CONFIRM HEIGHT AND BALUSTER SPACING OF EXISTING BALCONY RAILING - ALL RAILING TO BE REMOVED WHERE HEIGHT IS LESS THAN 42" AFF AND BALUSTER SPACING IS LESS THAN 4" O/C HORIZONTAL (TYP.)

16. CONTRACTOR TO REMOVE ALL EXTERIOR LIGHTING WITH THE EXCEPTION OF FIXTURES MOUNTED ON THE EXTERIOR SHARED TENANT WALLS BETWEEN ROOMS. THESE FIXTURES TO BE CLEANED AND/OR REPAIRED AND REINSTALLED FOR CONTINUED OPERATION.

Revisions

#	REVISION	DATE

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)
400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

March Adams & Associates
Consulting Engineers
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

Garbee Architecture
PH: 423.364.2830

EDMUND G. GARBEE — REGISTERED ARCHITECT — STATE OF TENNESSEE

9/03/2021

DRAWN:	EG
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JOB No.	21-008
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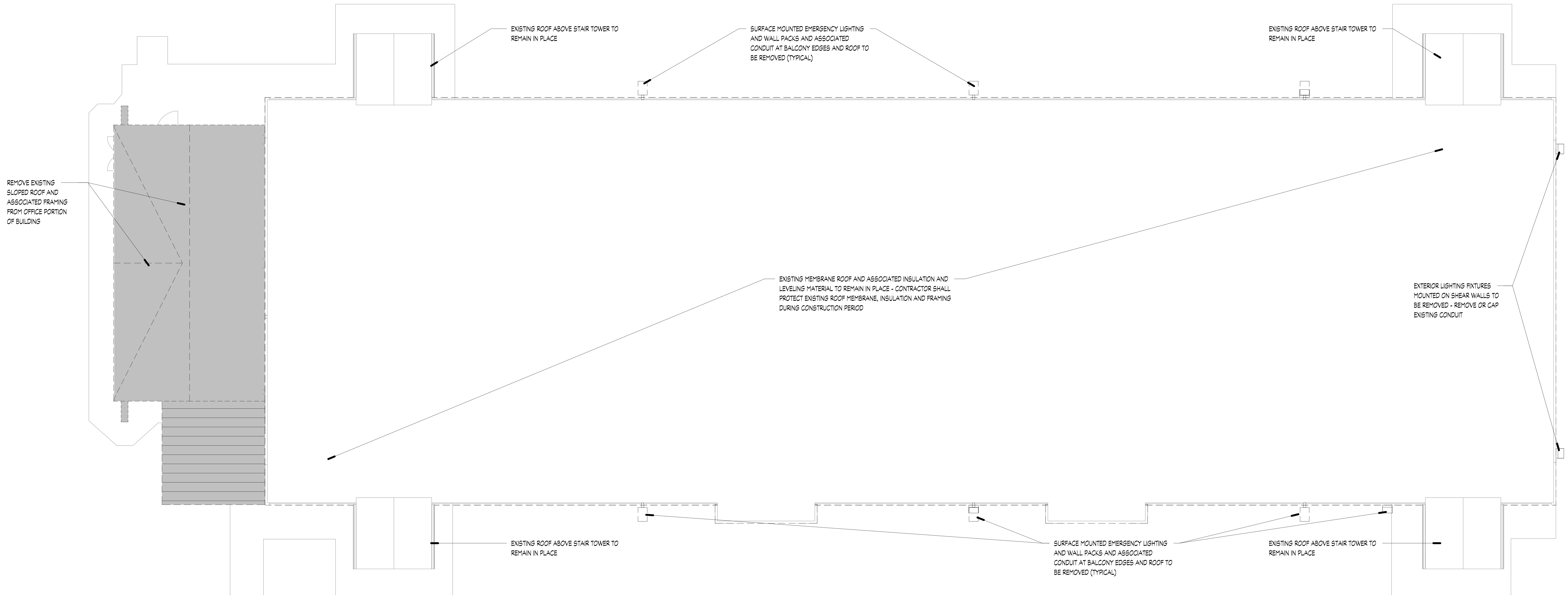
AD-1.3

BUILDING - A

Level 3 Demolition Plan



1 Roof Demolition Plan
1/8" = 1'-0"

DEMOLITION PLAN LEGEND

- ---- SPECIFIC ITEM TO BE DEMOLISHED/REMOVED
- AREA CONTAINING DEMOLITION WORK
- DEMOLITION NOTE INDICATING SPECIFIC WORK

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Garbee Architecture
PH: 423.364.2830

Revisions

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KNOXVILLE, TN 37917

for

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9/03/2021

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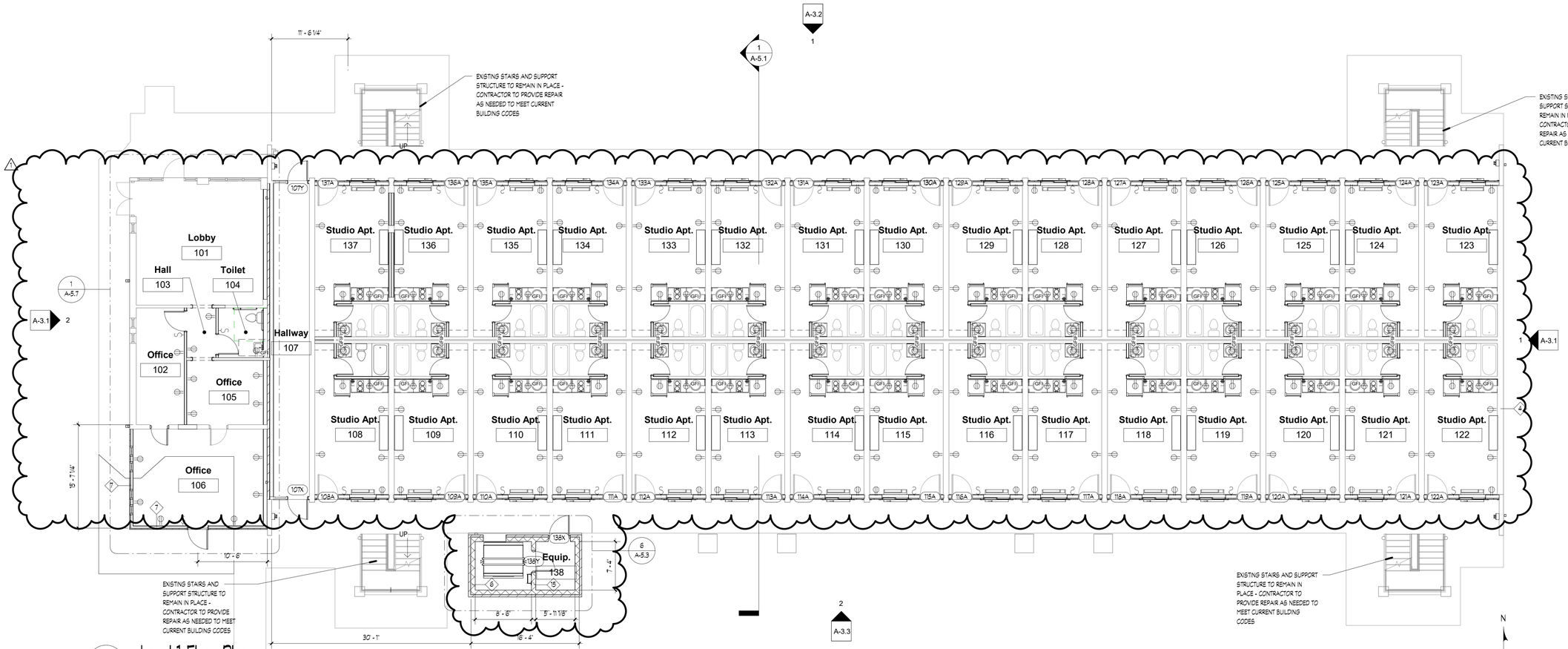
AD-1.4

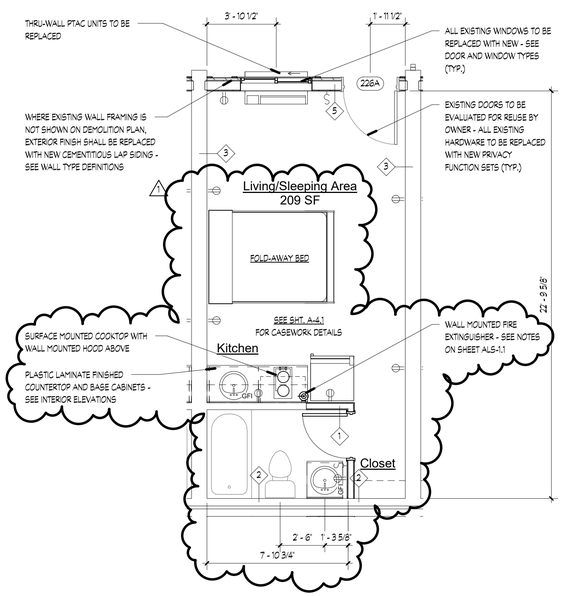
BUILDING - A

Roof Demolition Plan



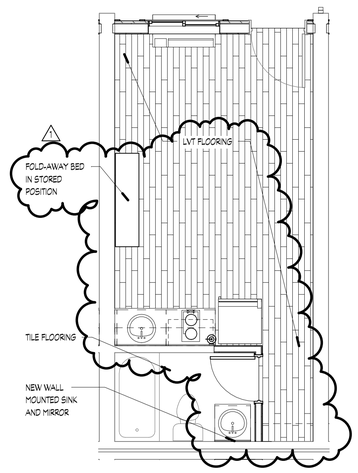
1 Level 1 Floor Plan

1/8" = 1'-0"



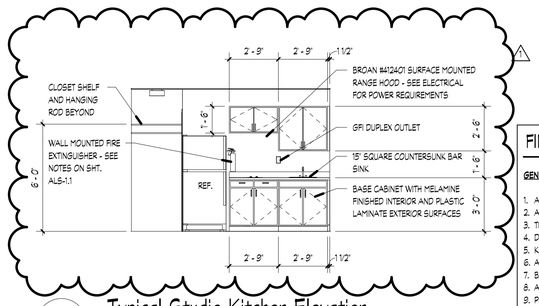
2 Typical Studio Unit

1/4" = 1'-0"



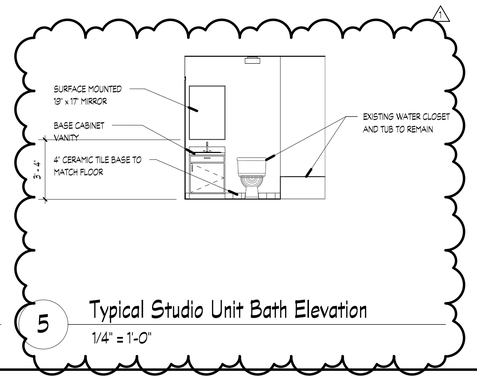
3 Typical Studio Unit Finish Plan

1/4" = 1'-0"



4 Typical Studio Kitchen Elevation

1/4" = 1'-0"



5 Typical Studio Unit Bath Elevation

1/4" = 1'-0"

FINISH NOTES:

GENERAL FINISH NOTES AND MATERIAL INSTALLATION:

1. ALL WALLS UNLESS NOTED OTHERWISE: PAINTED DRYWALL
2. ALL CEILINGS UNLESS NOTED OTHERWISE: PAINTED DRYWALL
3. TUB SURROUND WALLS: CERAMIC OR PORCELAIN TILE
4. DOORS AND WINDOWS: PAINTED
5. KITCHEN AND BATHROOM LAVATORY BACKSPLASH: CERAMIC OR PORCELAIN TILE
6. ALL FLOORS UNLESS NOTED OTHERWISE: LUXURY VINYL TILE
7. BATHROOM FLOORS: CERAMIC OR PORCELAIN TILE
8. ALL NEW WALL CONSTRUCTION TO RECEIVE 5/8" TYPE X GYPSUM BOARD.
9. PROVIDE NEW LIGHTING FIXTURES, SMOKE DETECTORS, TOILET EXHAUST FANS AND VANITY MIRROR ABOVE COUNTERTOP AND SINK.
10. PROVIDE NEW LAVATORY SINK.
11. PROVIDE NEW CLOSET HANGER AND SHELF.
12. EACH UNIT TO HAVE NEW SURFACE MOUNTED COOKTOP.
13. ALL UNITS TO RECEIVE NEW LIGHT SWITCH OUTLET COVERS.

PLAN LEGEND

- WALL CONSTRUCTION
- 118X — DOOR SCHEDULE TAG
- 1 — WALL TYPE TAG
- FE — WALL MOUNTED FIRE EXTINGUISHER
- 2 / A3.01 — DETAIL SECTION TAG WITH SHEET NUMBER
- RECEPTACLE OUTLET - SEE ELECTRICAL DRAWINGS
- WALL MOUNTED LIGHT SWITCH - SEE ELECTRICAL DRAWINGS
- WALL MOUNTED FIRE EXTINGUISHER

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)
400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

March Adams & Associates
Consulting Engineers
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

EDMUND G. GARBEE — REGISTERED ARCHITECT — STATE OF TENNESSEE
9/03/2021

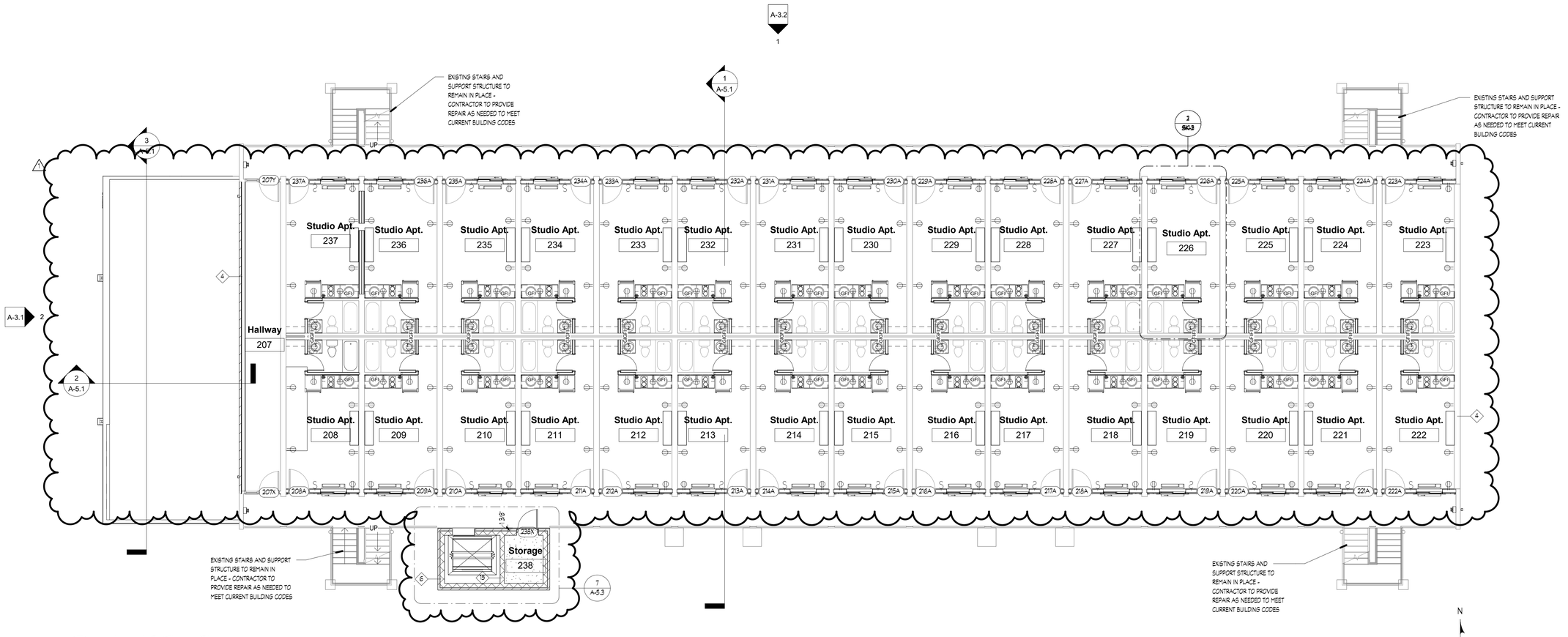
DRAWN:	EG
CHECKED:	EG
JOB No.	21-008
DATE:	September 3, 2021

A-1.1

BUILDING - A

Level 1 Floor Plan

Garbee Architecture
PH: 423.364.2830



1 Level 2 Floor Plan

1/8" = 1'-0"

FINISH NOTES:

GENERAL FINISH NOTES AND MATERIAL INSTALLATION:

1. ALL WALLS UNLESS NOTED OTHERWISE: PAINTED DRYWALL
2. ALL CEILINGS UNLESS NOTED OTHERWISE: PAINTED DRYWALL
3. TUB SURROUND WALLS: CERAMIC OR PORCELAIN TILE
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PLAN LEGEND

- WALL CONSTRUCTION
- 118X — DOOR SCHEDULE TAG
- 1 — WALL TYPE TAG
- FE — WALL MOUNTED FIRE EXTINGUISHER
- 2 / A301 — DETAIL SECTION TAG WITH SHEET NUMBER
- RECEPTACLE OUTLET - SEE ELECTRICAL DRAWINGS
- WALL MOUNTED LIGHT SWITCH - SEE ELECTRICAL DRAWINGS
- WALL MOUNTED FIRE EXTINGUISHER

Revisions

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EDMUND G. GARBEE — REGISTERED ARCHITECT — STATE OF TENNESSEE
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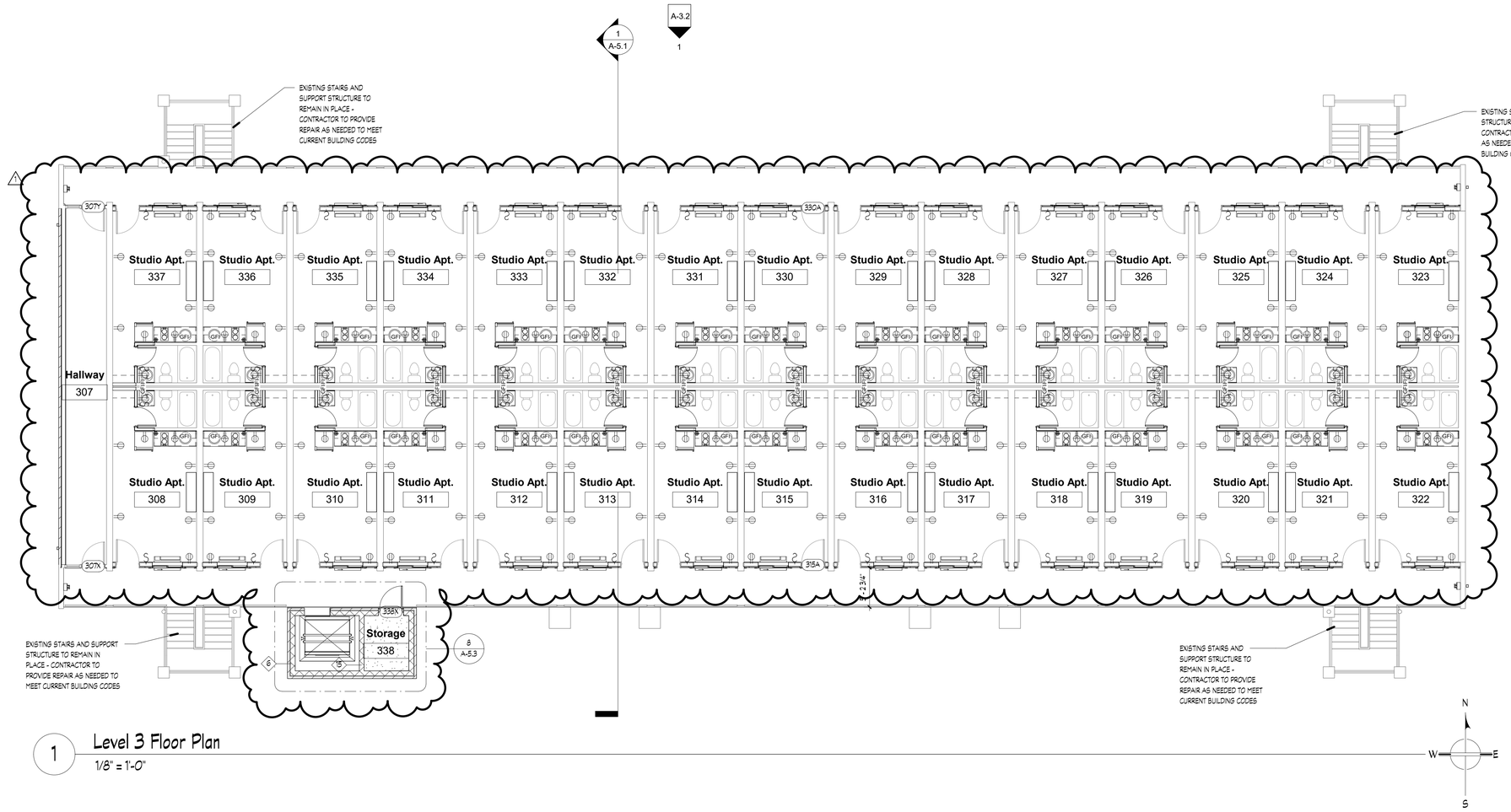
DATE:	September 3, 2021

A-1.2

BUILDING - A

Level 2 Floor Plan

Garbee Architecture
PH: 423.364.2830



1 Level 3 Floor Plan

1/8" = 1'-0"

PLAN LEGEND

- WALL CONSTRUCTION
- 118X — DOOR SCHEDULE TAG
- 1 — WALL TYPE TAG
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- RECEPTACLE OUTLET - SEE ELECTRICAL DRAWINGS
- WALL MOUNTED LIGHT SWITCH - SEE ELECTRICAL DRAWINGS
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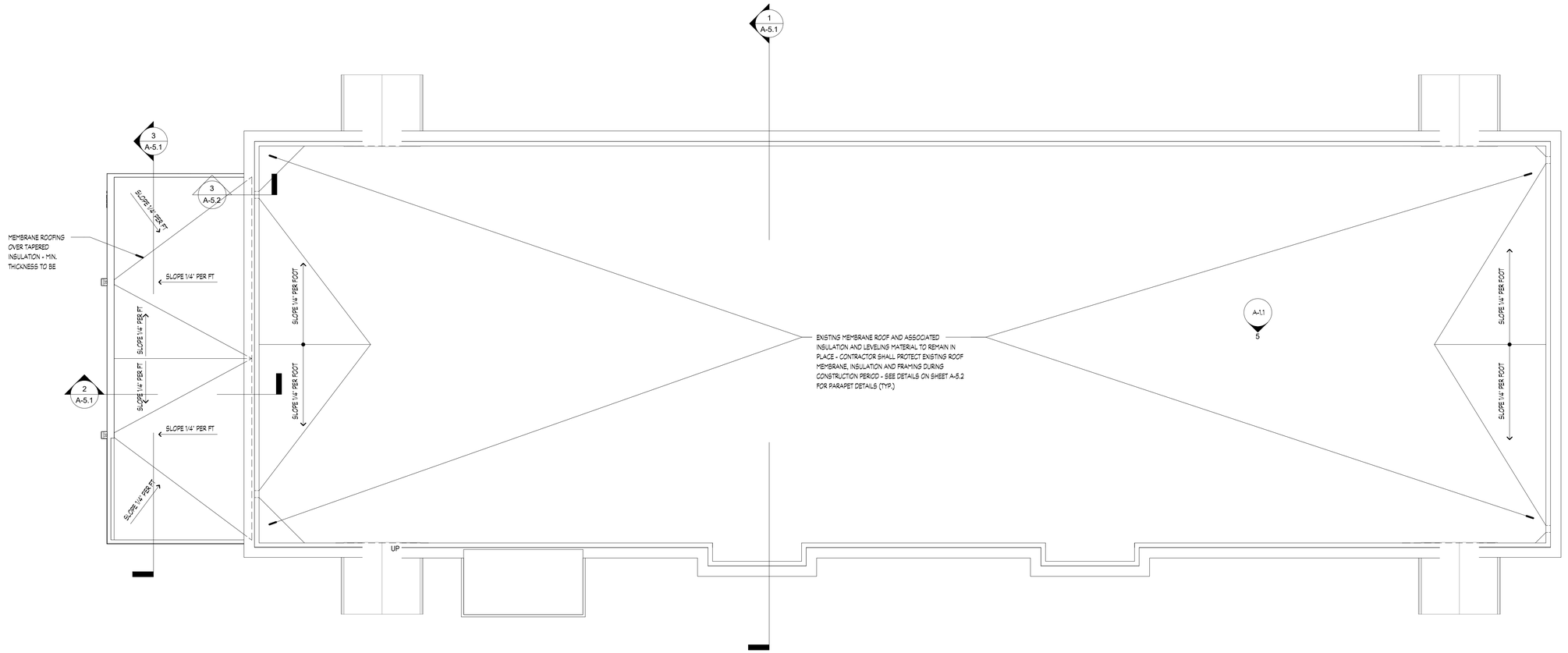
A-1.3

BUILDING - A

Level 3 Floor Plan

Garbee Architecture
PH: 423.364.2830



1 **Roof Plan**

1/8" = 1'-0"

Revisions

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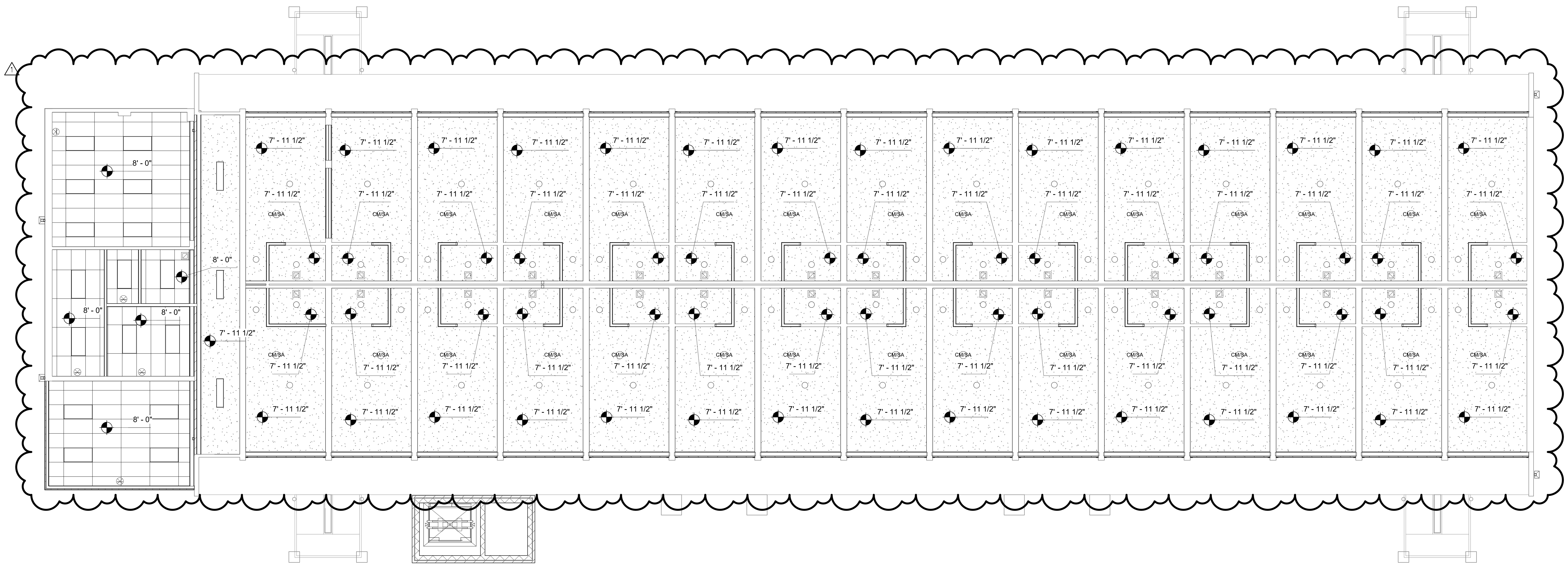
A-1.4

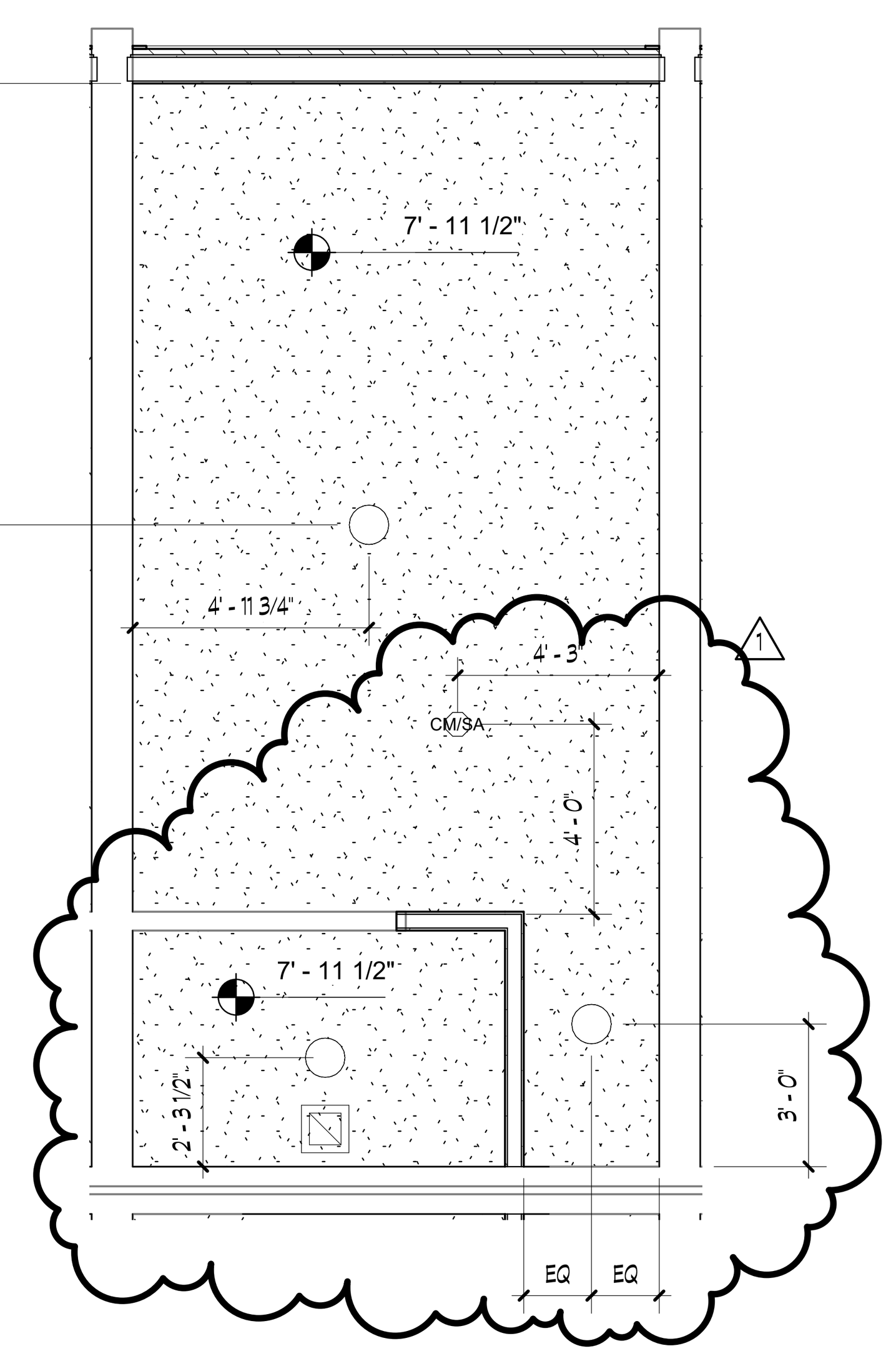
BUILDING - A

Roof Plan

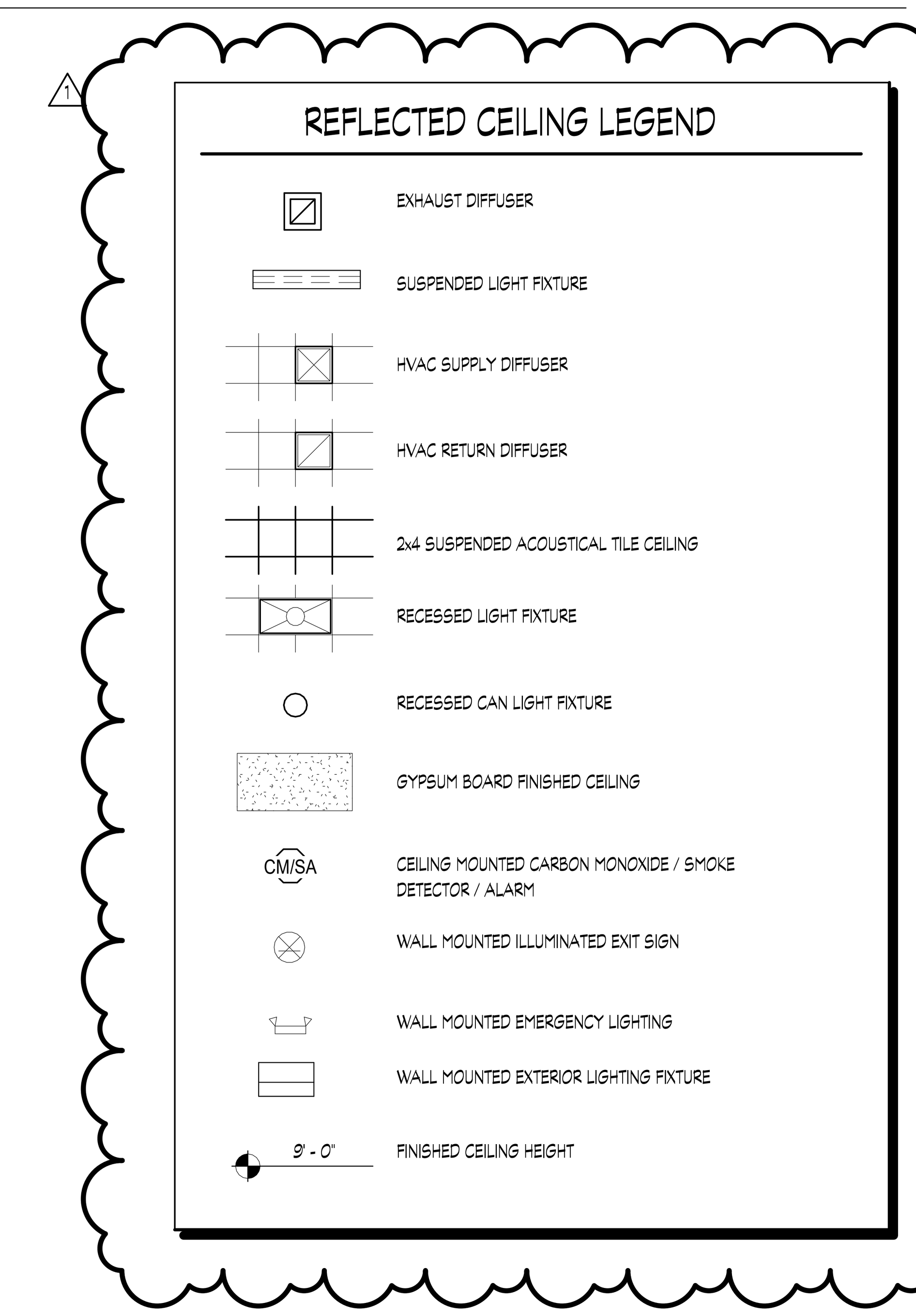
Garbee Architecture
PH: 423.364.2830



1 Level 1 Ceiling Plan
1/8" = 1'-0"



2 Typical Unit Ceiling Plan
1/4" = 1'-0"



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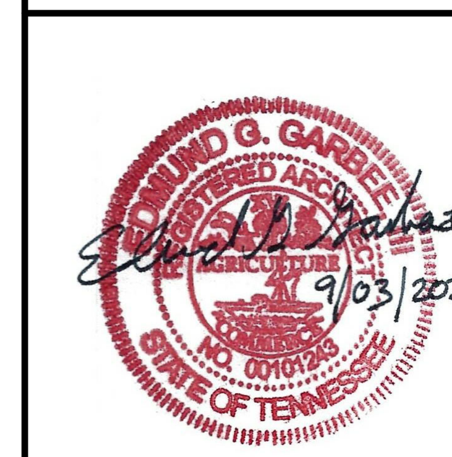

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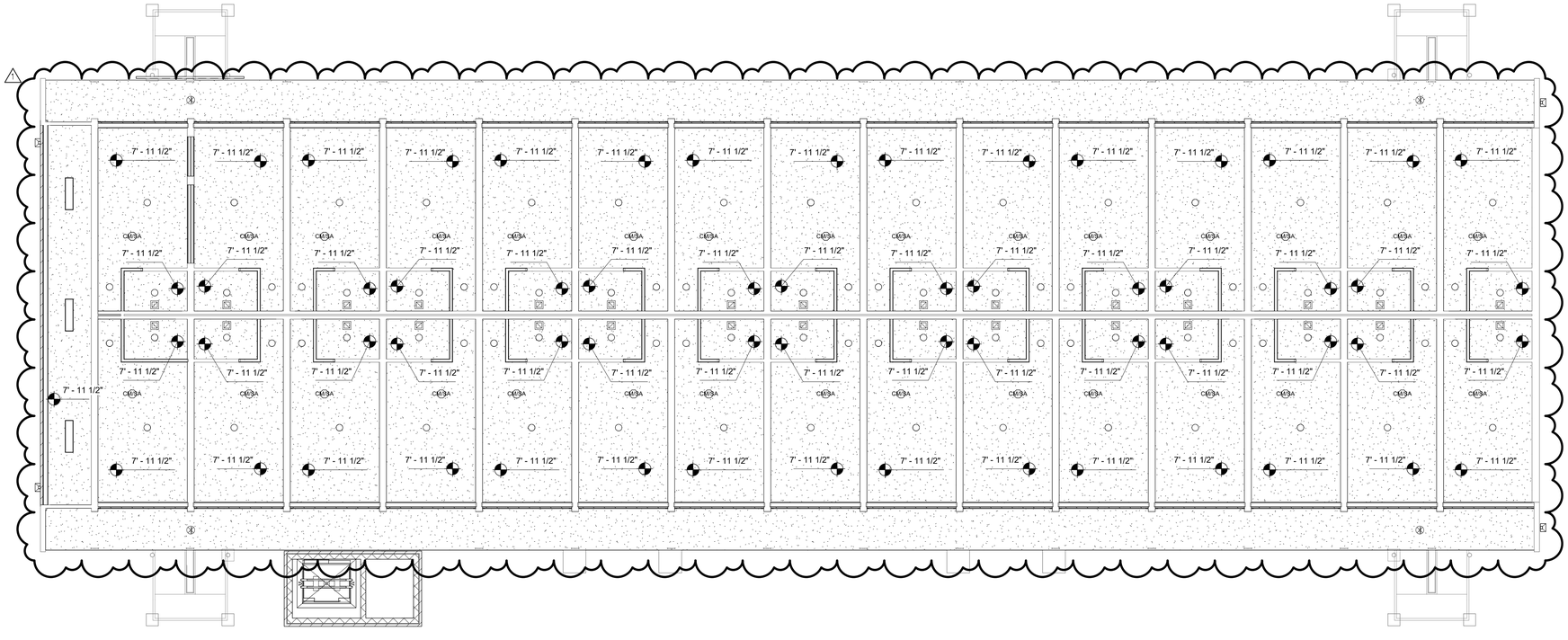
A-2.1

BUILDING - A

Level 1 Ceiling Plan

Garbee Architecture
PH: 423.364.2830



1 Level 2 Ceiling Plan

1/8" = 1'-0"

REFLECTED CEILING LEGEND

- EXHAUST DIFFUSER
- SUSPENDED LIGHT FIXTURE
- HVAC SUPPLY DIFFUSER
- HVAC RETURN DIFFUSER
- 2x4 SUSPENDED ACOUSTICAL TILE CEILING
- RECESSED LIGHT FIXTURE
- RECESSED CAN LIGHT FIXTURE
- GYPSUM BOARD FINISHED CEILING
- CMISA — CEILING MOUNTED CARBON MONOXIDE / SMOKE DETECTOR / ALARM
- WALL MOUNTED ILLUMINATED EXIT SIGN
- WALL MOUNTED EMERGENCY LIGHTING
- WALL MOUNTED EXTERIOR LIGHTING FIXTURE
- 9' - 0" — FINISHED CEILING HEIGHT

Garbee Architecture
PH: 423.364.2830

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EDWARD G. GARBEE
REGISTERED ARCHITECT
No. 6010
STATE OF TENNESSEE
9/03/2021

DRAWN:	EG
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A-2.2

BUILDING - A

Level 2 Ceiling Plan

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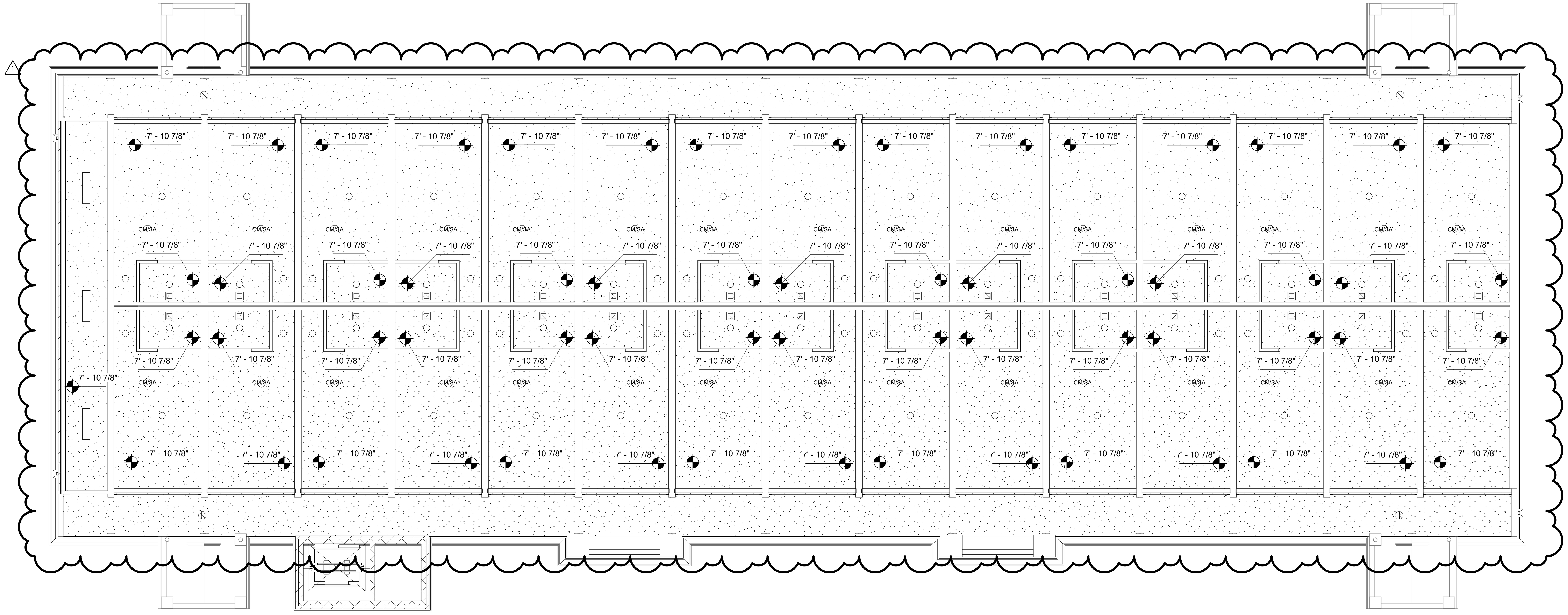
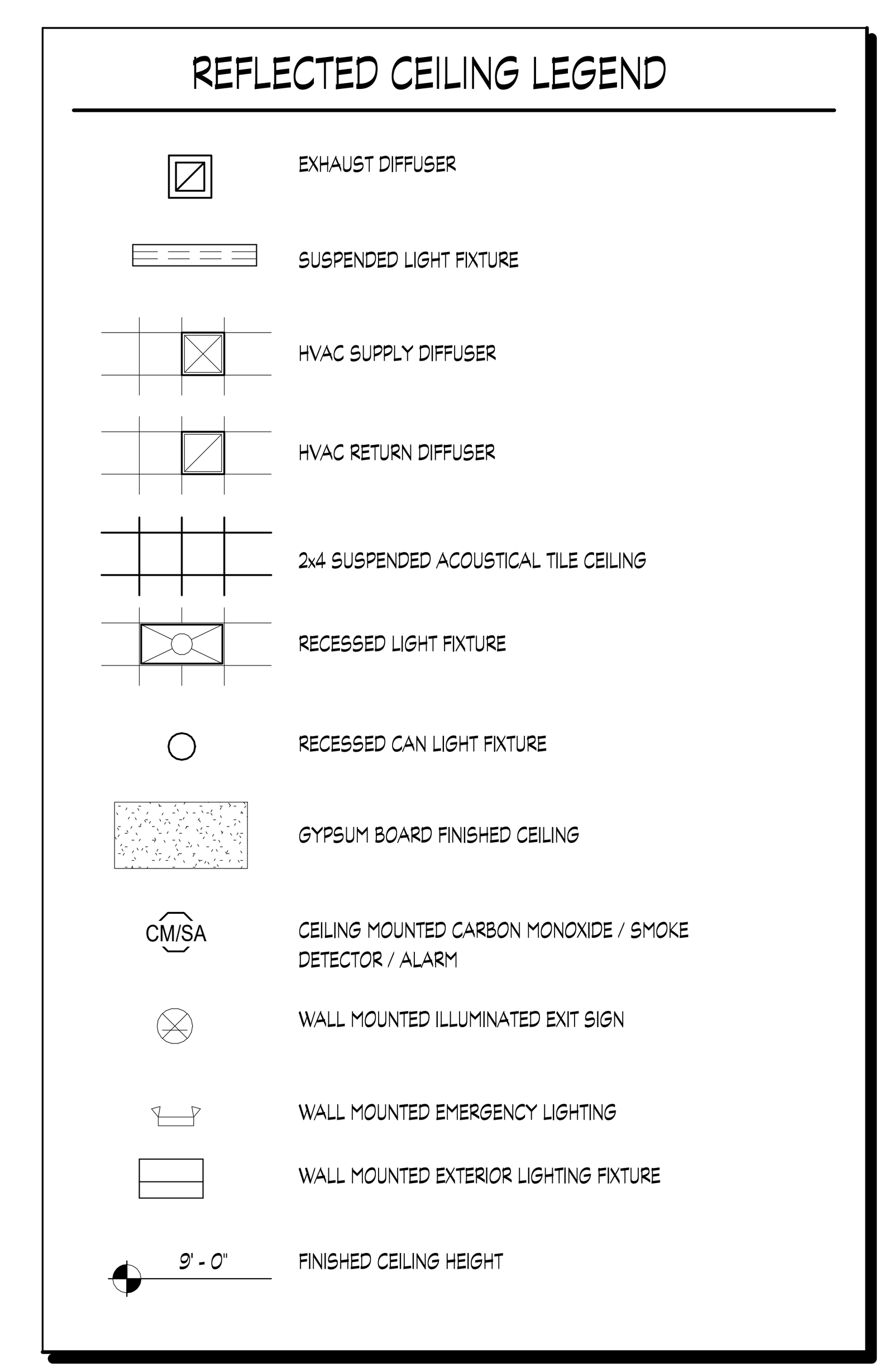


1 Level 3 Ceiling Plan
1/8" = 1'-0"



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BUILDING - A

Level 3 Ceiling Plan

Garbee Architecture
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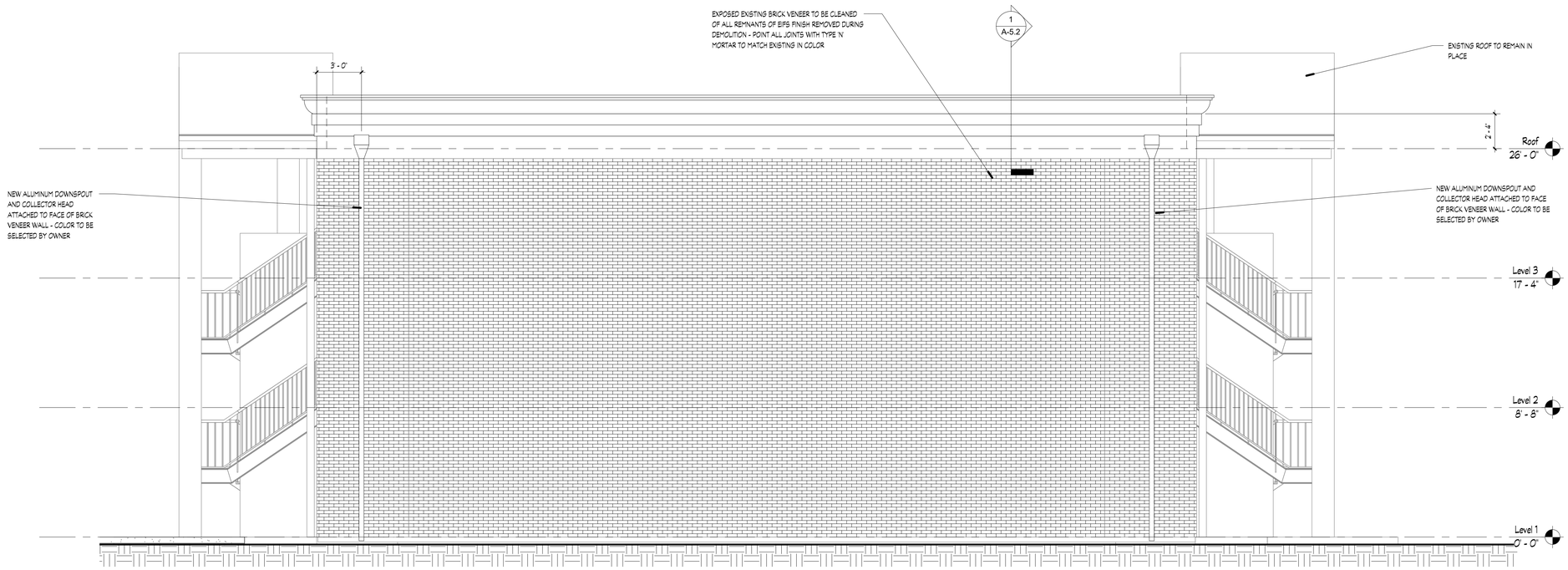
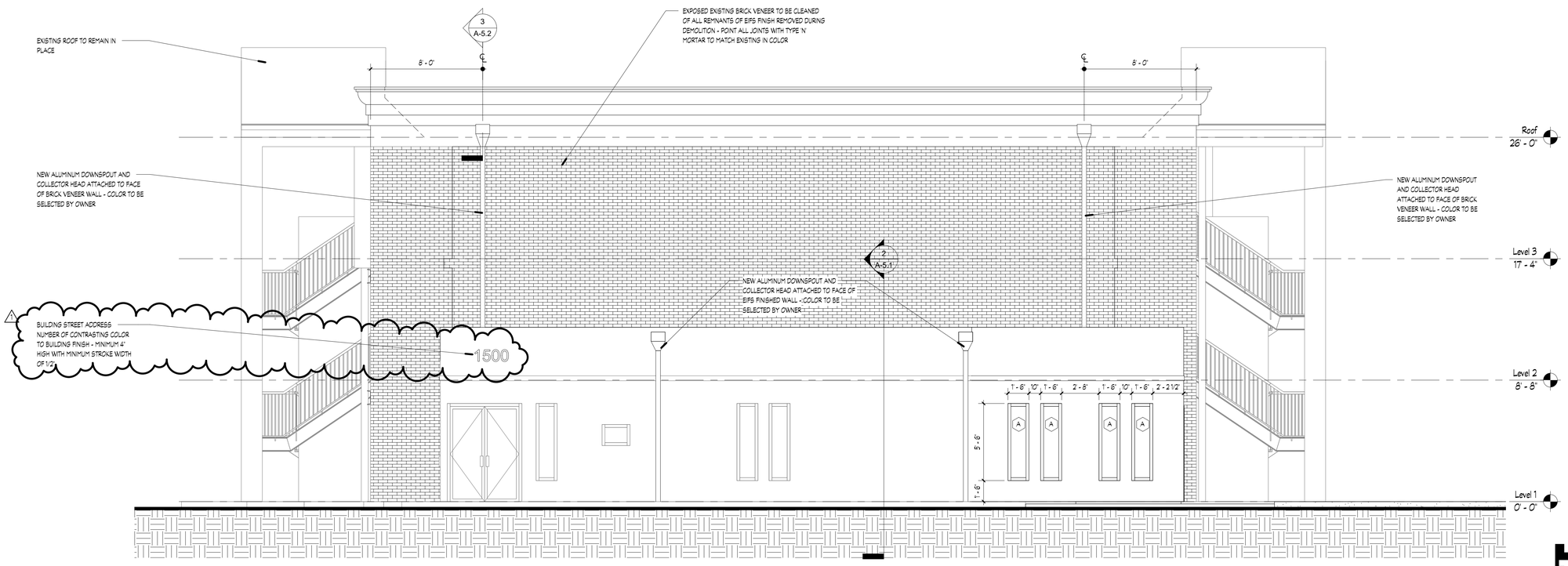


1 Building A East Elevation

1/4" = 1'-0"



2 Building A West Elevation

1/4" = 1'-0"

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at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)

400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

March Adams & Associates
Consulting Engineers

310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

EDWARD G. GARBEE
REGISTERED ARCHITECT
No. 6010
STATE OF TENNESSEE
9/03/2021

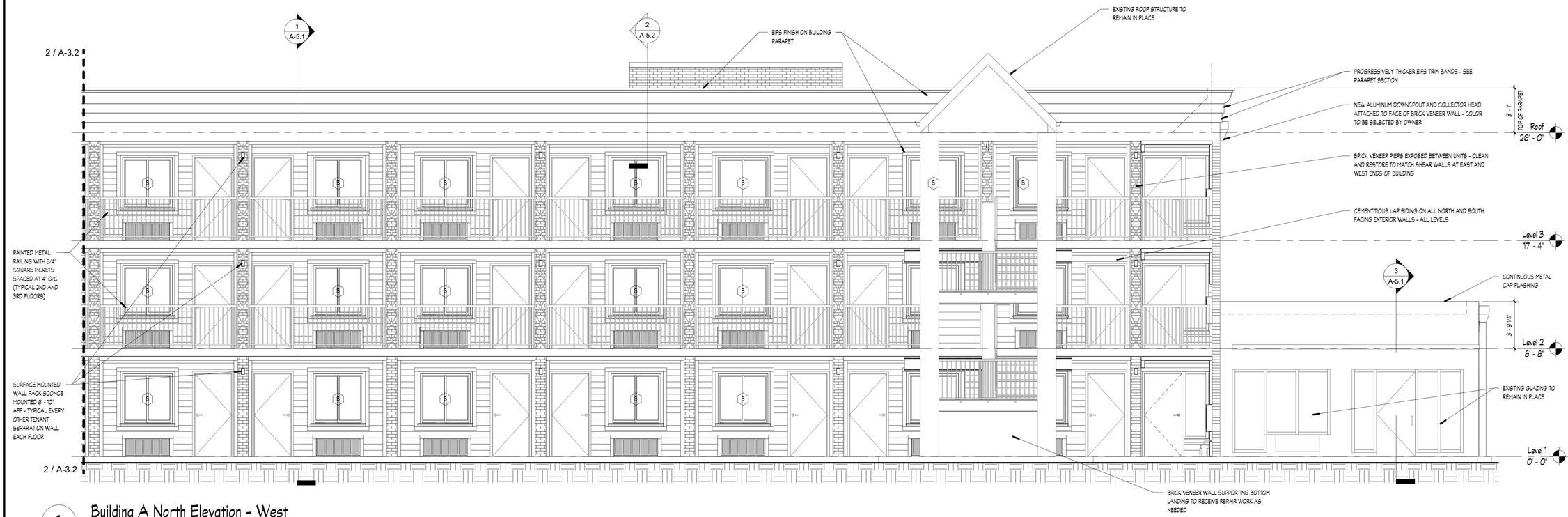
DRAWN:	EG
CHECKED:	EG
JOB No.	21-008
DATE:	September 3, 2021

A-3.1

BUILDING - A

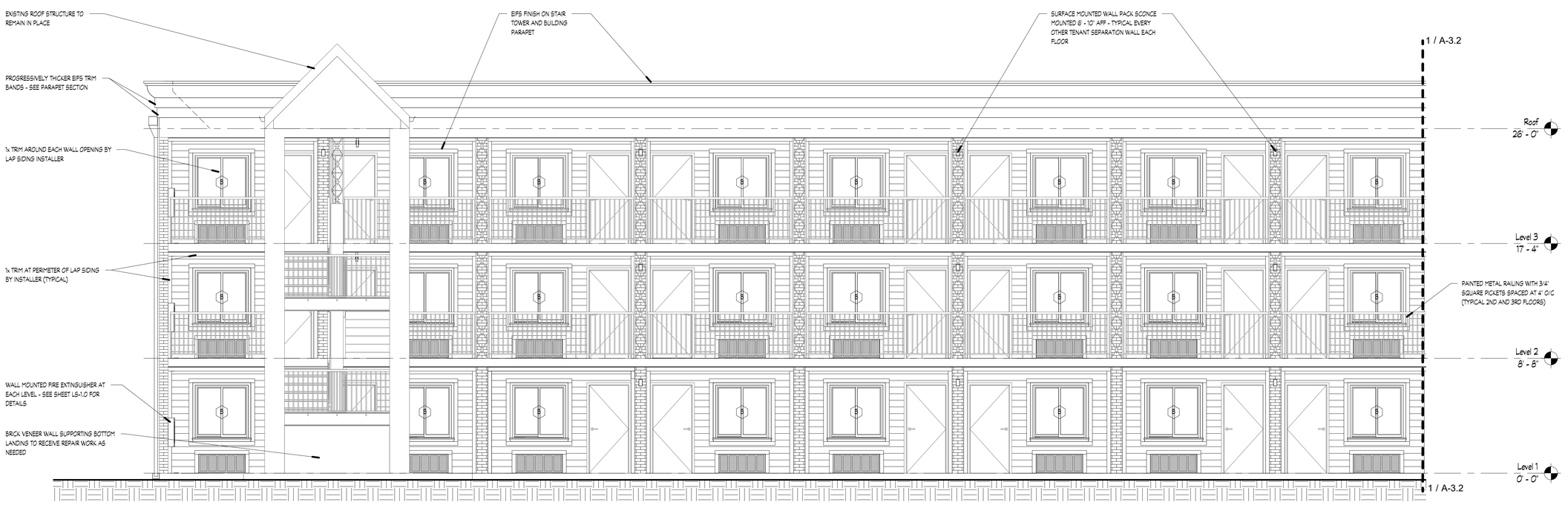
Exterior Elevations

Garbee Architecture
PH: 423.364.2830



1 Building A North Elevation - West

1/4" = 1'-0"



2 Building A North Elevation - East

1/4" = 1'-0"

Garbee Architecture
PH: 423.364.2830

Revisions

#	REVISION	DATE

KNOXVILLE INN RENOVATIONS

at

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KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
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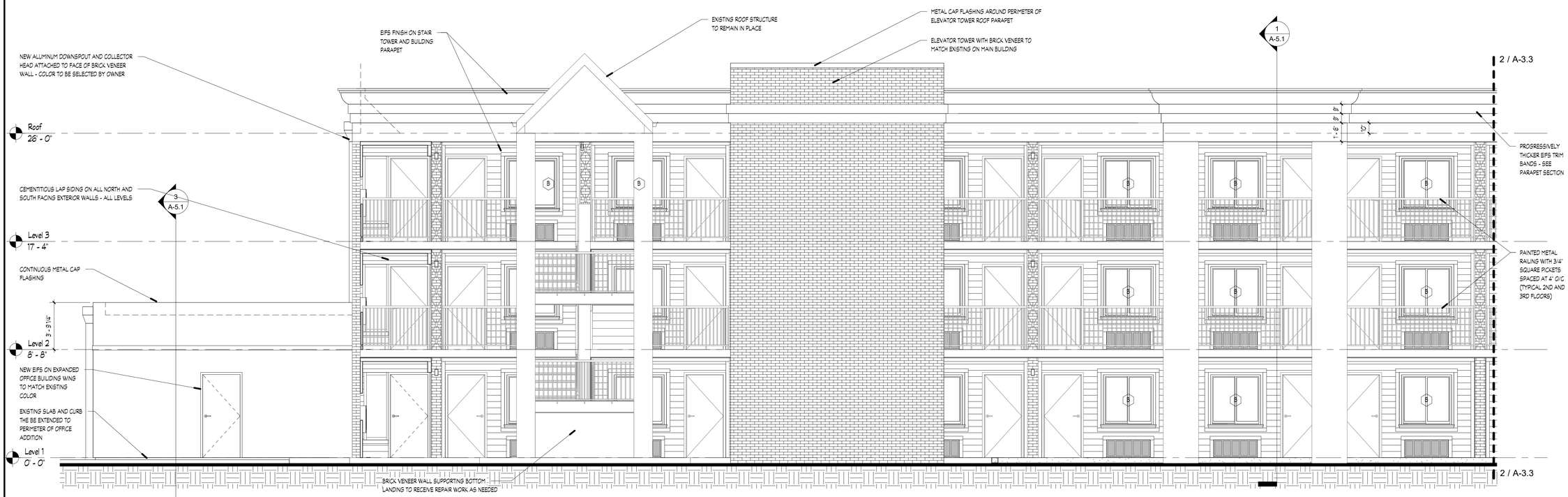
EDWARD G. GARBEE
REGISTERED ARCHITECT
No. 07010
STATE OF TENNESSEE
9/03/2021

DRAWN:	EG
CHECKED:	EG
JOB No.	21-008
DATE:	September 3, 2021

A-3.2

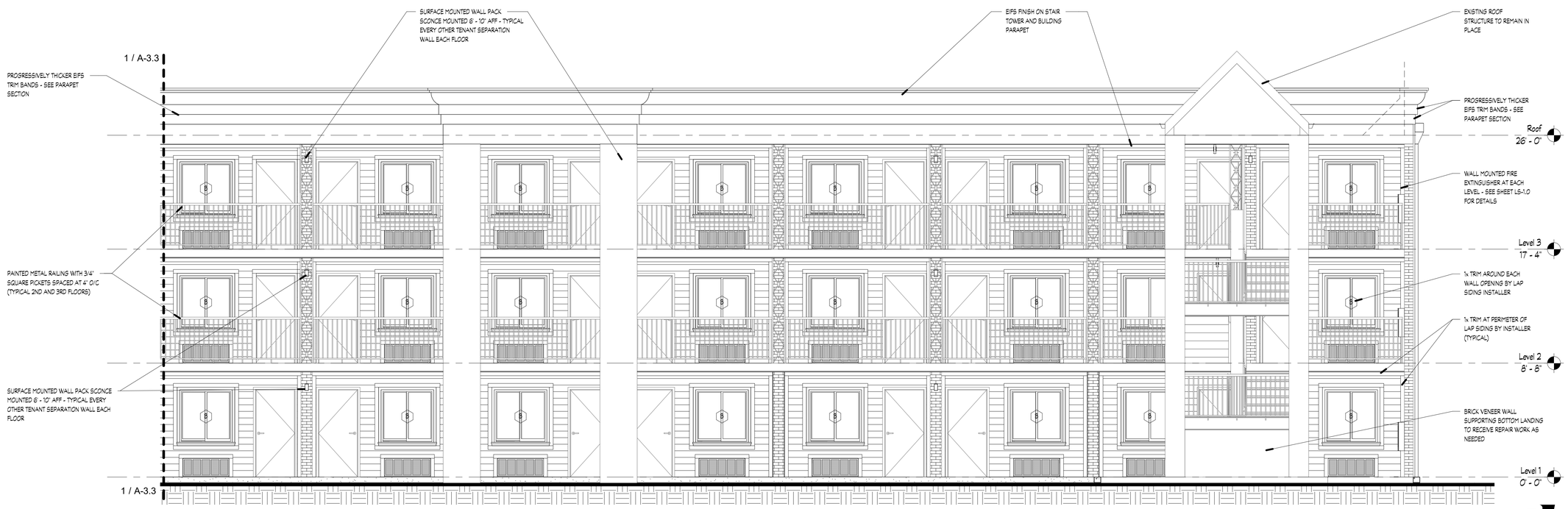
BUILDING - A

Exterior Elevations



1 Building A South Elevation - West

1/4" = 1'-0"



2 Building A South Elevation - East

1/4" = 1'-0"

Revisions

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KNOXVILLE INN RENOVATIONS

at

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KNOXVILLE, TN 37917

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EDWARD G. GARBEE
REGISTERED ARCHITECT
No. 07010
STATE OF TENNESSEE
9/03/2021

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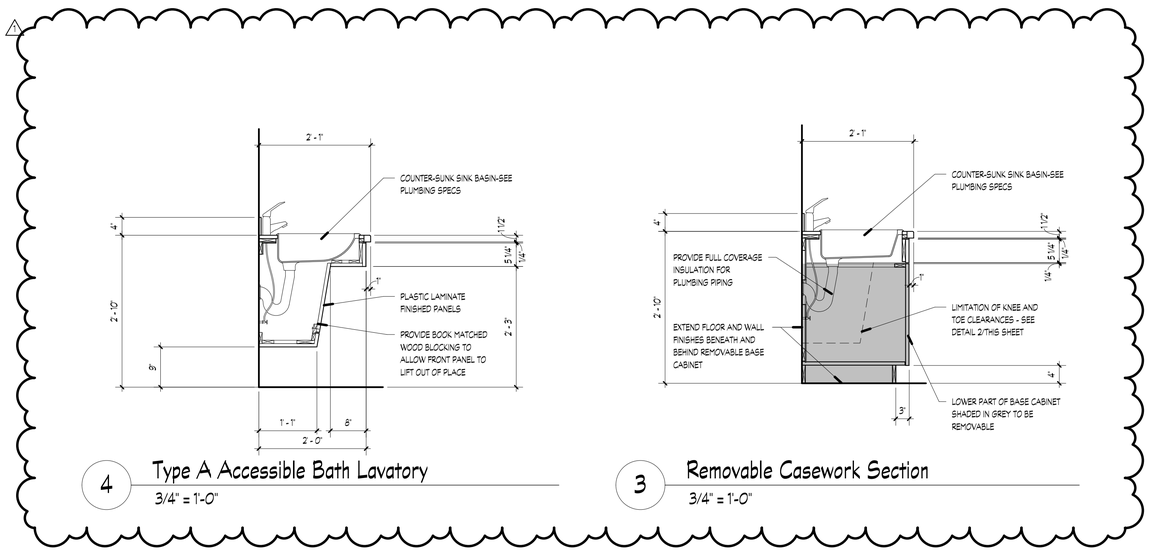
JOB No.	21-008
DATE:	September 3, 2021

A-3.3

BUILDING - A

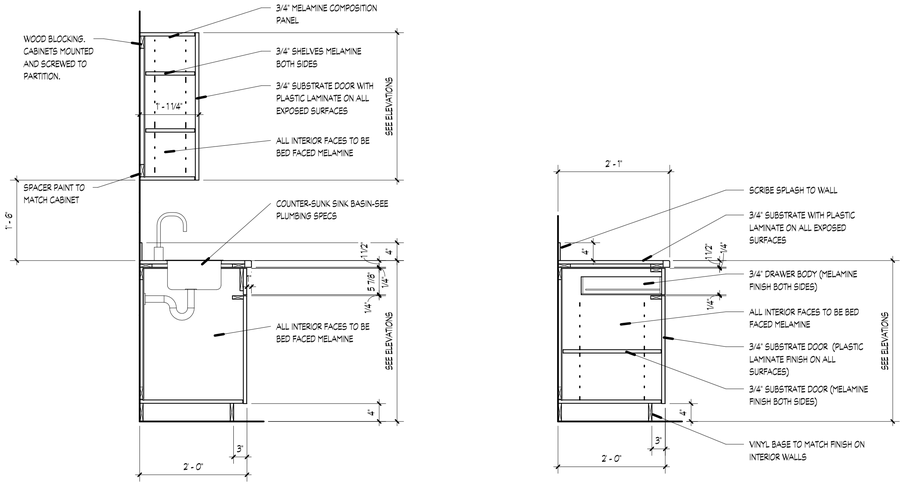
Exterior Elevations

Garbee Architecture
PH: 423.364.2830

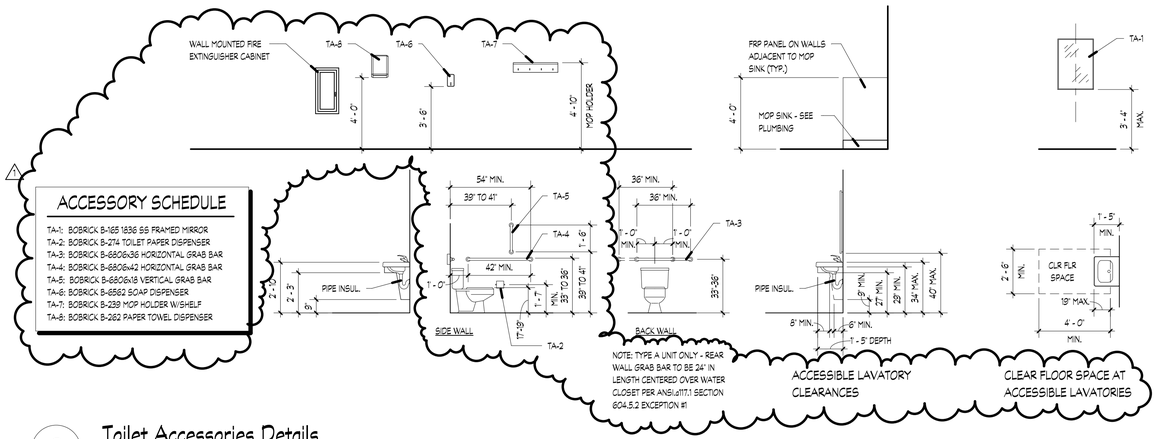


4 Type A Accessible Bath Lavatory
3/4" = 1'-0"

3 Removable Casework Section
3/4" = 1'-0"



1 Casework Section
3/4" = 1'-0"



2 Toilet Accessories Details
1/4" = 1'-0"

Revisions		
#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

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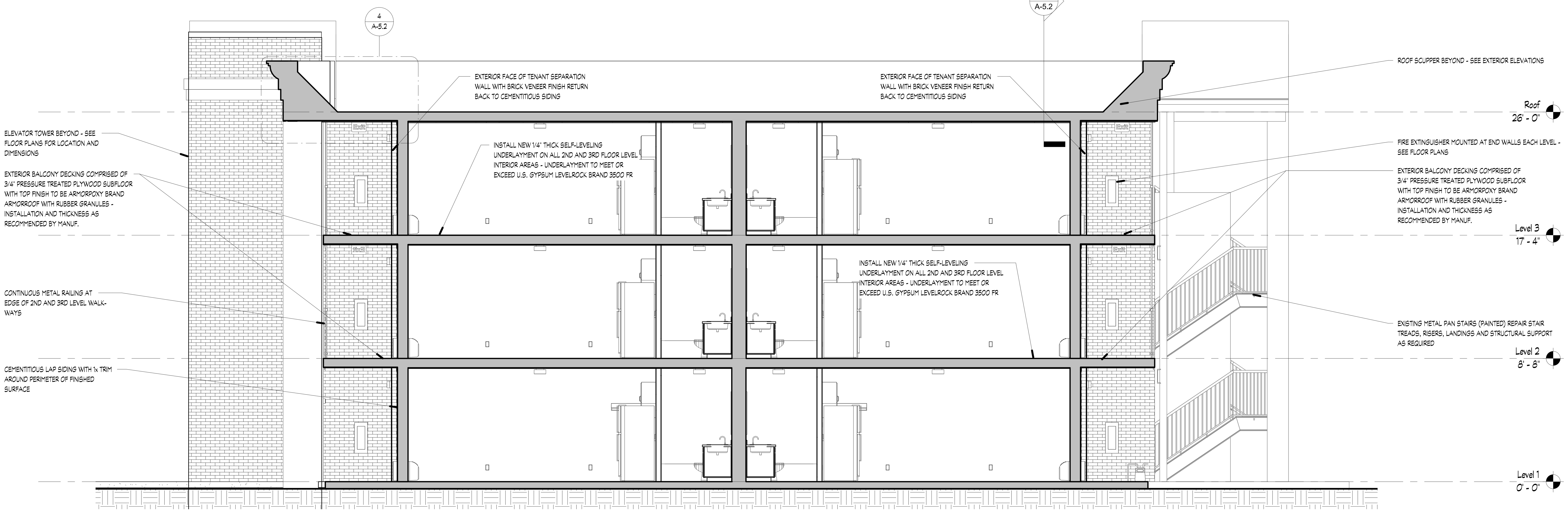
EDMUND G. GARBEE — REGISTERED ARCHITECT — 9/03/2021 — STATE OF TENNESSEE

DRAWN:	EG
CHECKED:	EG
JOB No.	21-008
DATE:	September 3, 2021

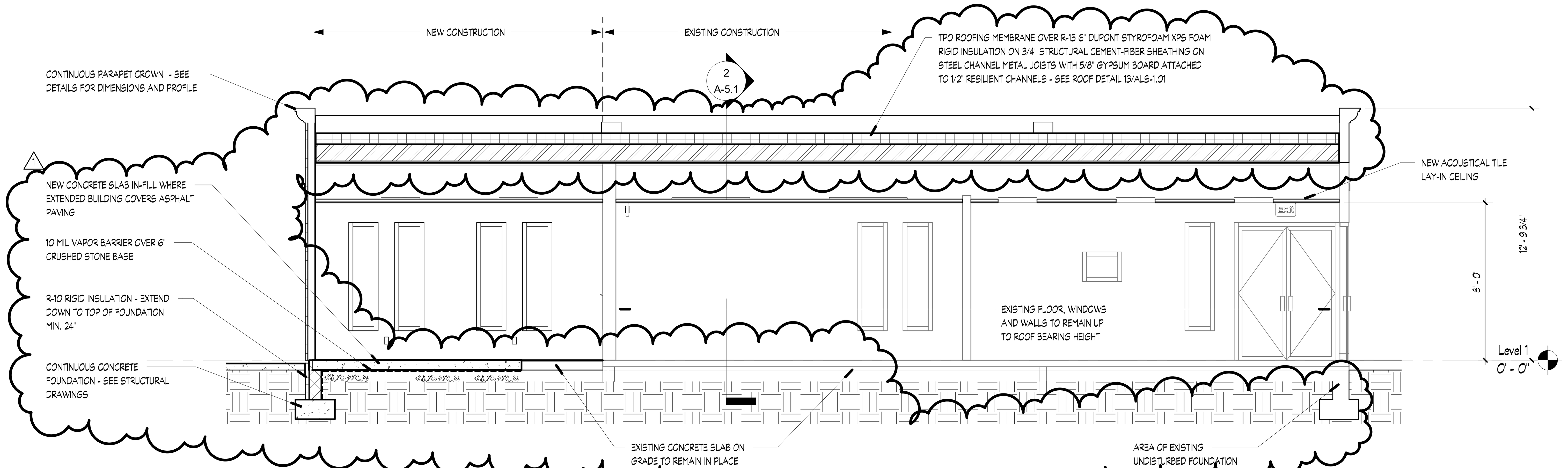
A-4.1

BUILDING - A
Casework Details and Accessory Schedules

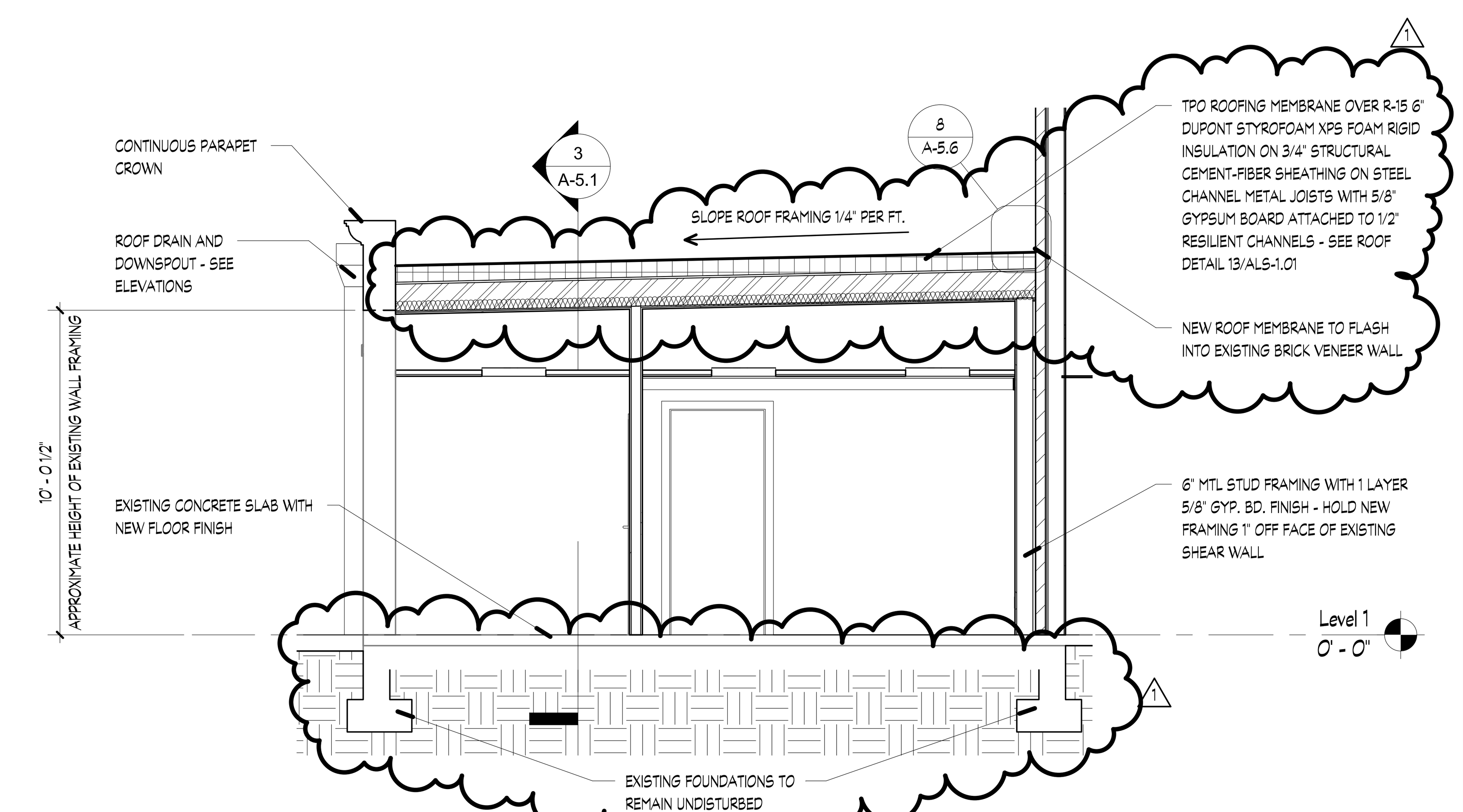
Garbee Architecture
PH: 423.364.2830



1 North/South Section @ Apartment Building A
1/4" = 1'-0"



3 North/South Section @ Office
1/4" = 1'-0"



2 East/West Section @ Office
1/4" = 1'-0"

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

at

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KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)

400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

MA &A
March Adams & Associates
Consulting Engineers
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

9/03/2021

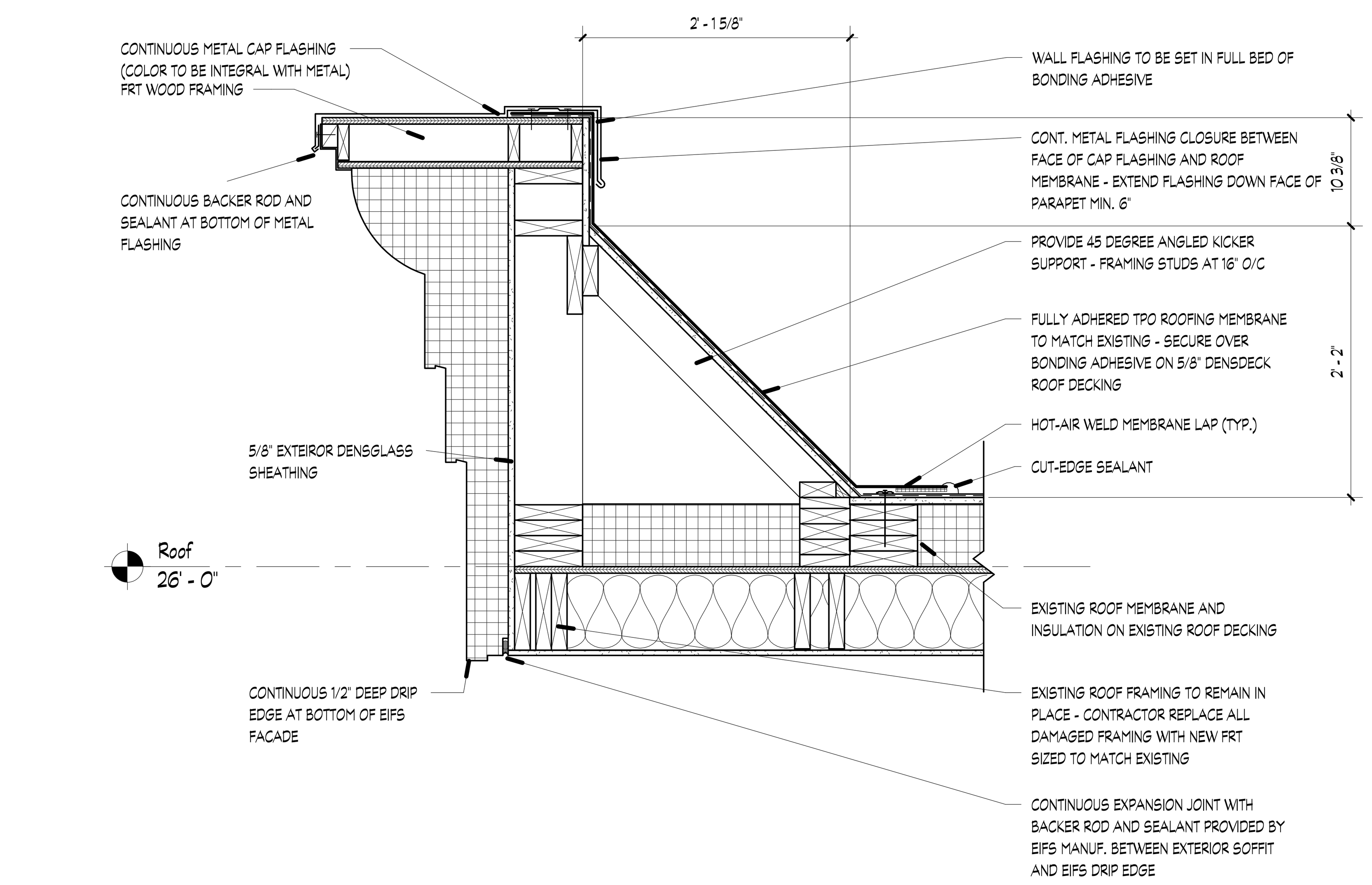
DRAWN:	EG
CHECKED:	EG
JOB No.	21-008
DATE:	September 3, 2021

A-5.1

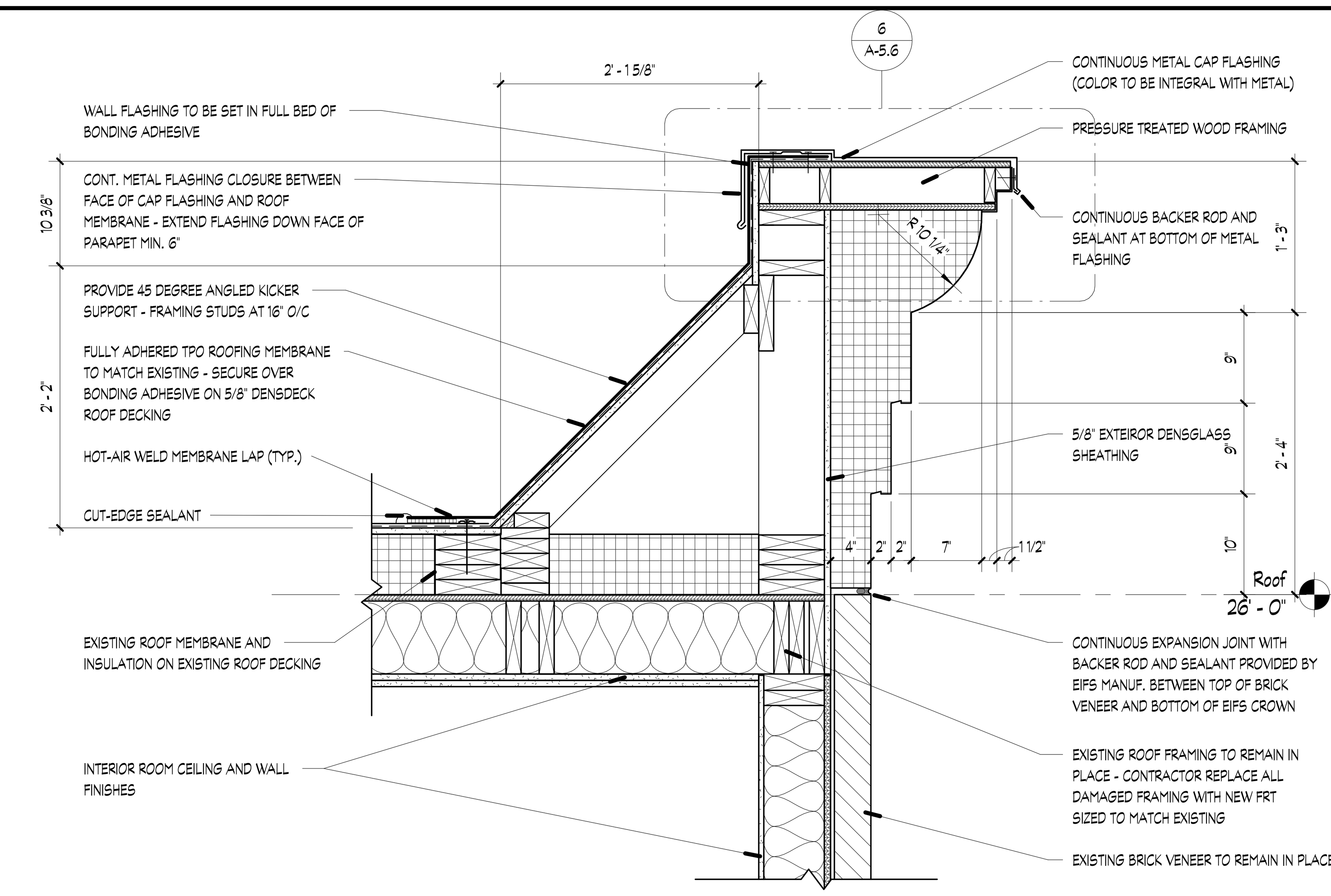
BUILDING - A

Building Sections

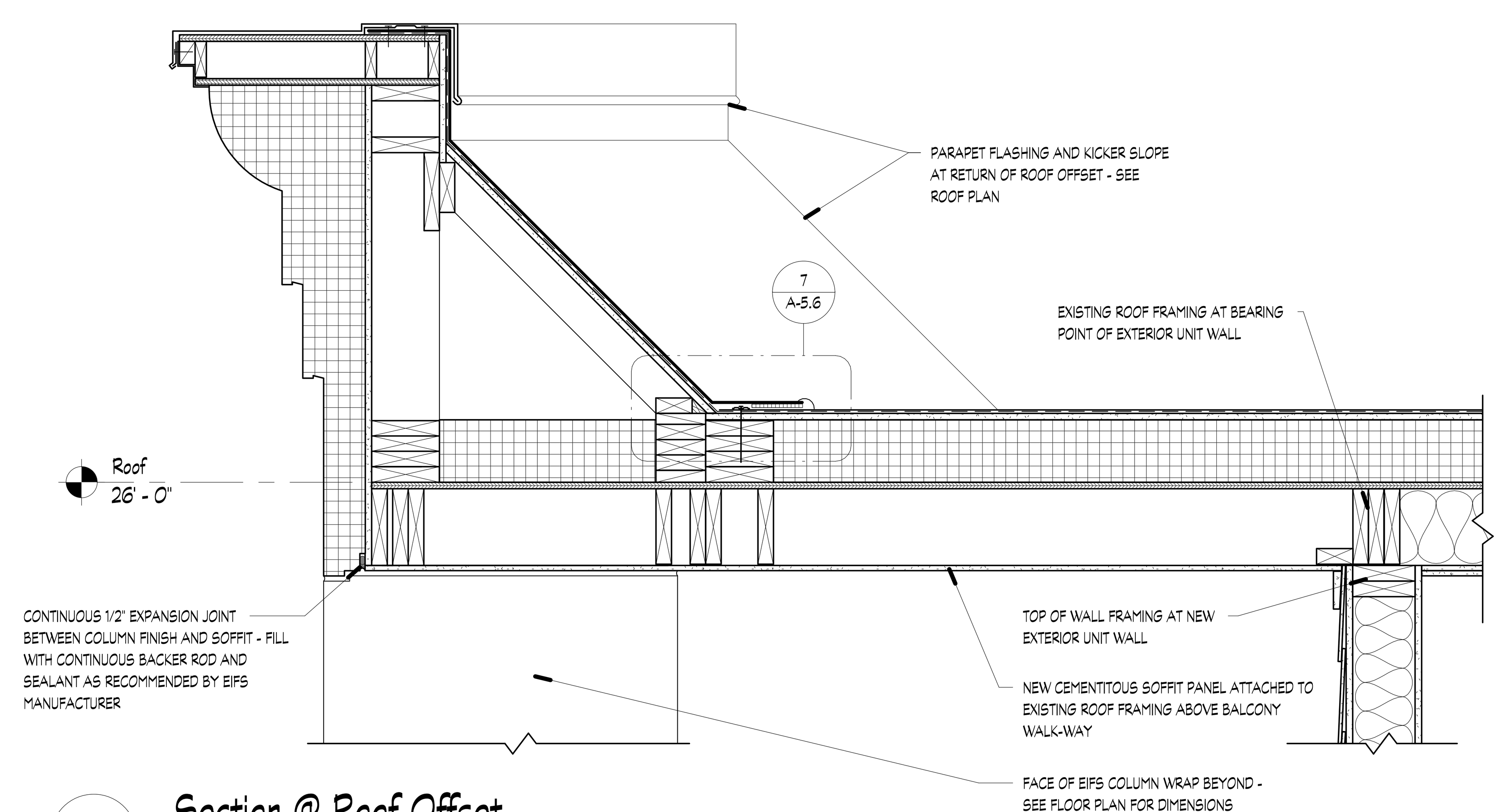
Garbee Architecture
PH: 423.364.2830



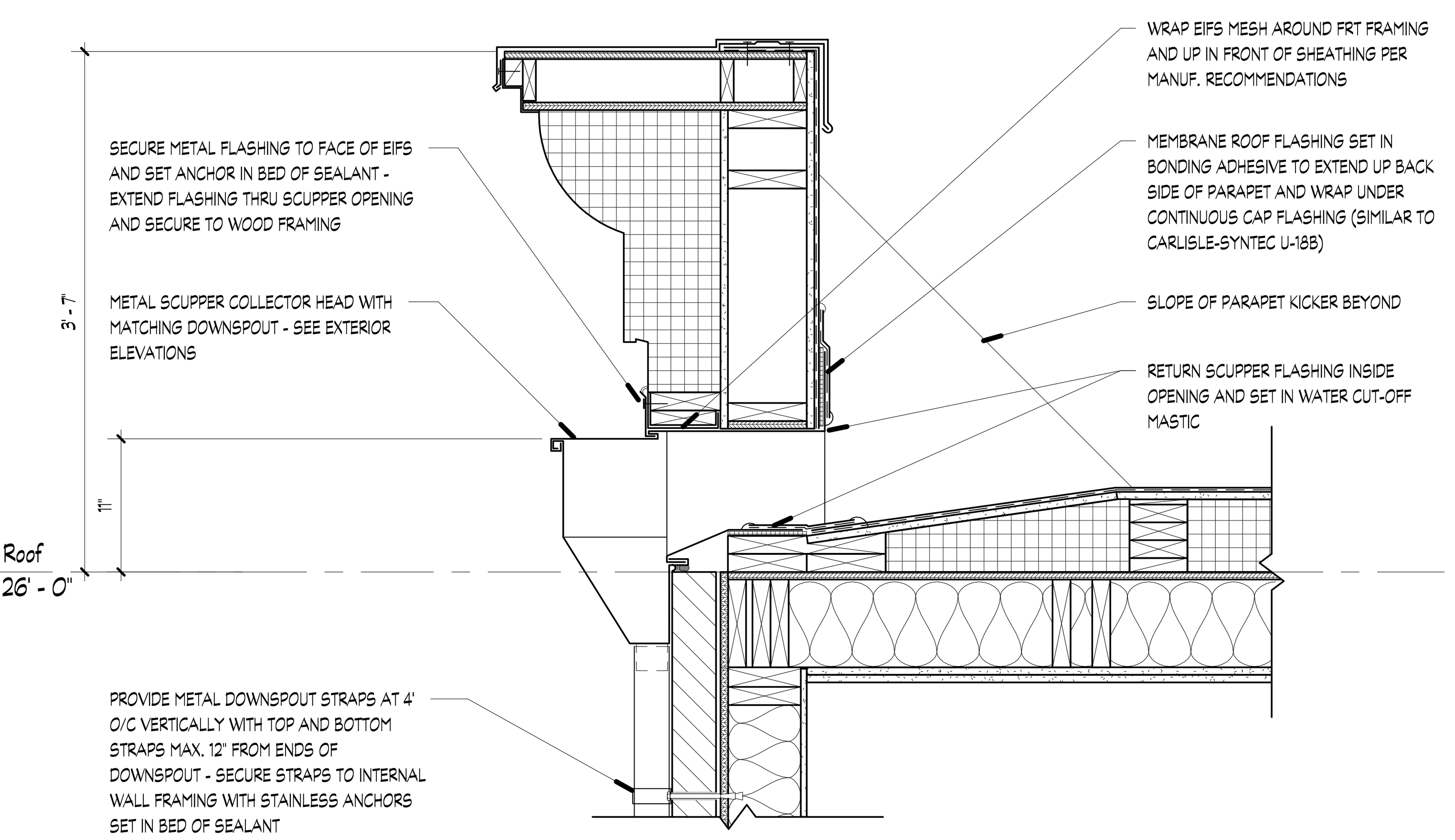
2 Section @ North Parapet Wall
1" = 1'-0"



1 Section @ East Parapet Wall
1" = 1'-0"



4 Section @ Roof Offset
1" = 1'-0"



3 Section @ Roof Scupper
1" = 1'-0"

Revisions		
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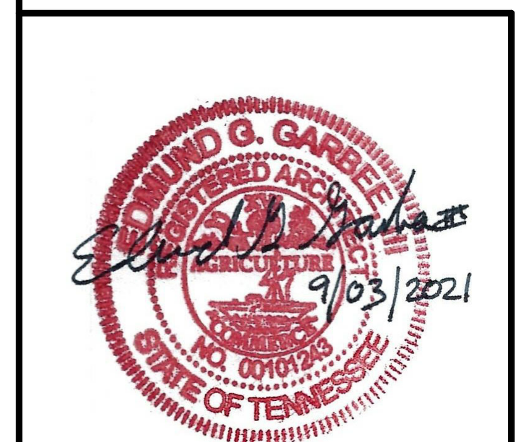
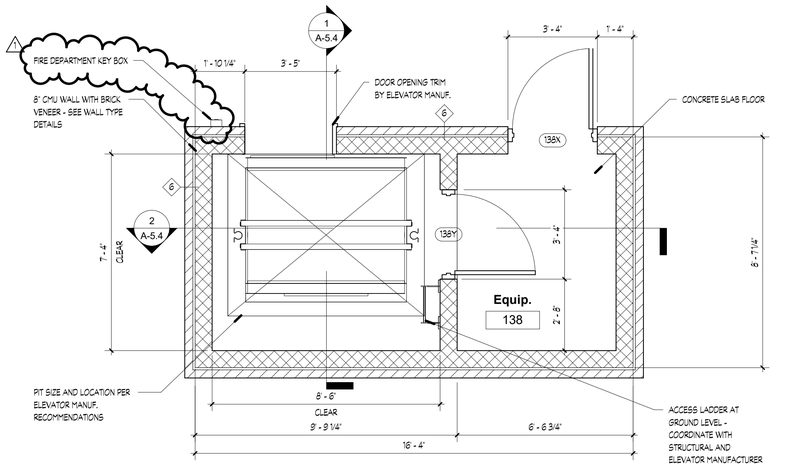


DRAWN:	EG
CHECKED:	EG
JOB No.	21-008
DATE:	September 3, 2021

A-5.2

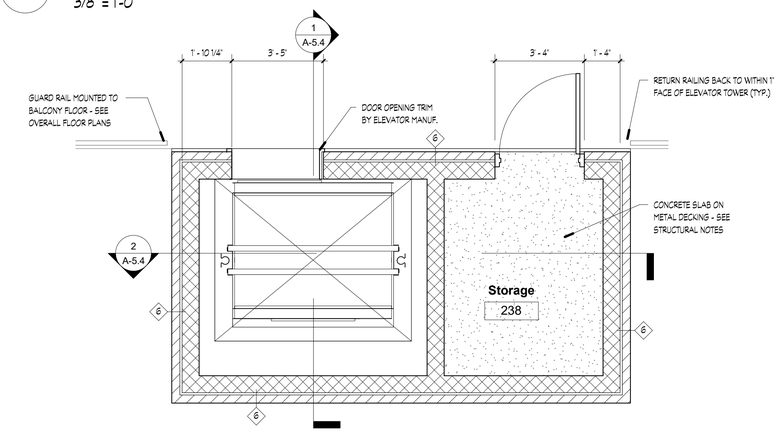
BUILDING - A
Large Scale Wall Sections and Details

Garbee Architecture
PH: 423.364.2830



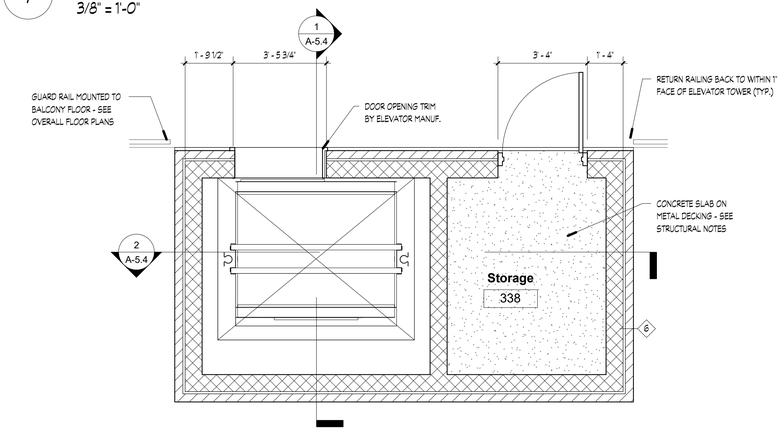
6 Level 1 Elevator Core Floor Plan

3/8" = 1'-0"



7 Level 2 Elevator Core Floor Plan

3/8" = 1'-0"



8 Level 3 Elevator Core Floor Plan

3/8" = 1'-0"

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

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EDMUND G. GARBEE REGISTERED ARCHITECT STATE OF TENNESSEE
9/03/2021

DRAWN:	EG
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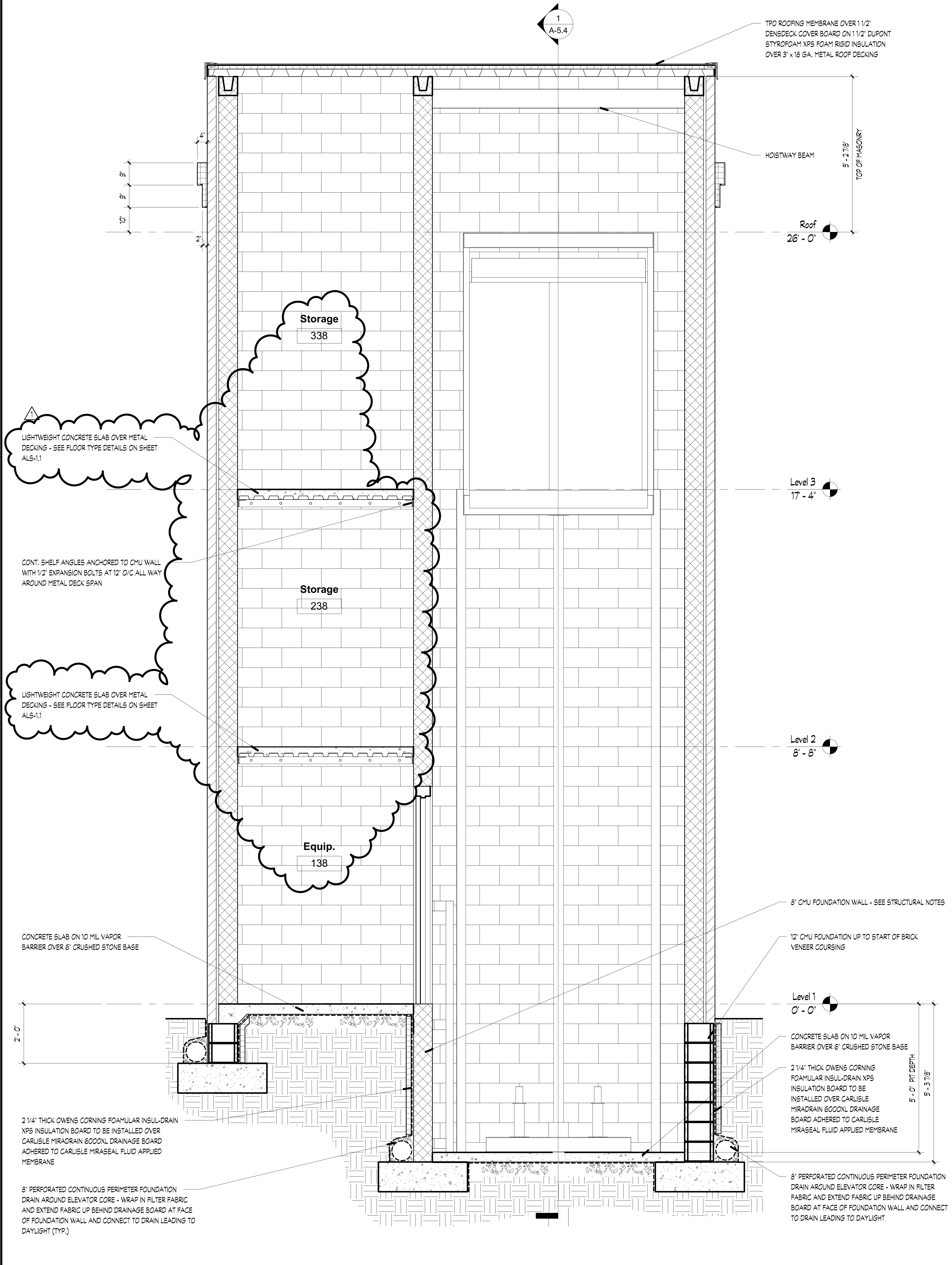
JOB No.	21-008
DATE:	September 3, 2021

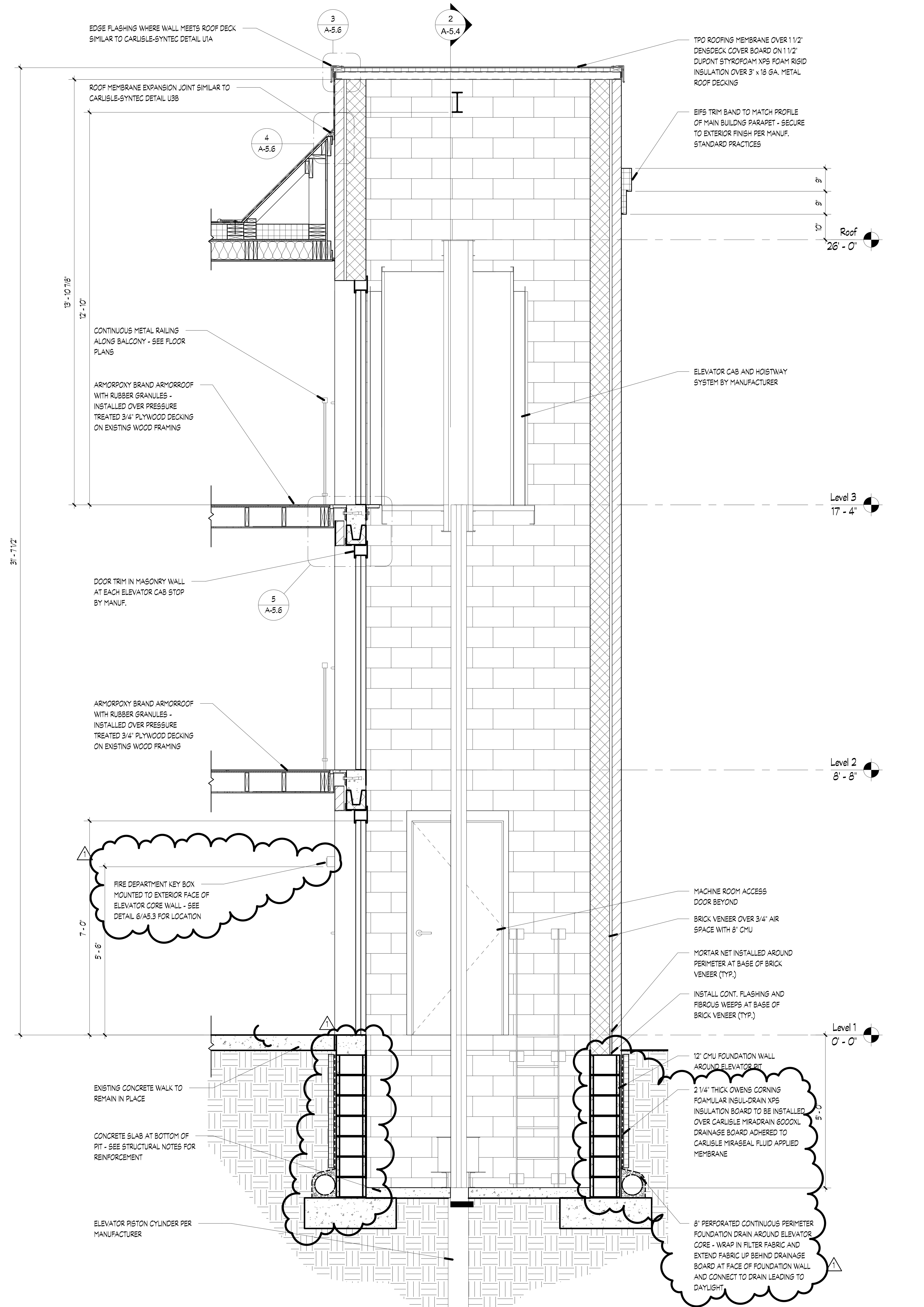
A-5.3

BUILDING - A
Large Scale Elevator Plans

Garbee Architecture
PH: 423.364.2830



2 Section 4
1/2" = 1'-0"



1 Section 3
1/2" = 1'-0"

Garbee Architecture
PH: 423.364.2830

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

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KNOXVILLE, TN 37917

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9/03/2021

DRAWN:	EG
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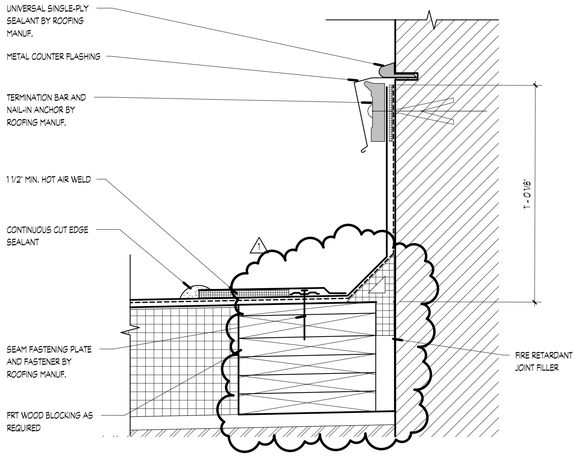
JOB No.	21-008
DATE:	September 3, 2021

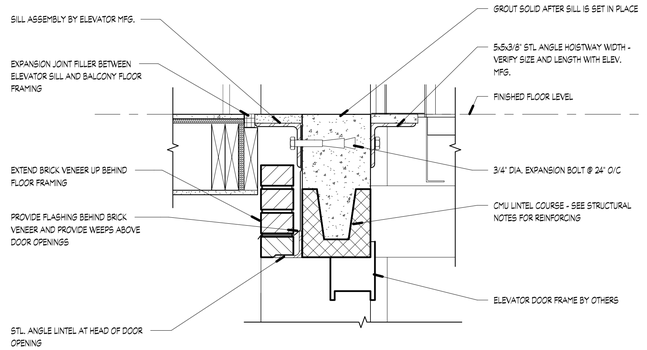
A-5.4

BUILDING - A
Large Scale Elevator Sections



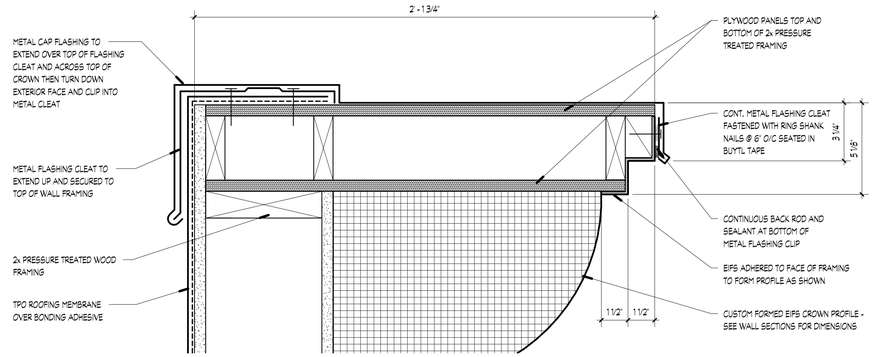
8 Detail @ Membrane to Brick Veneer Flashing

3" = 1'-0"



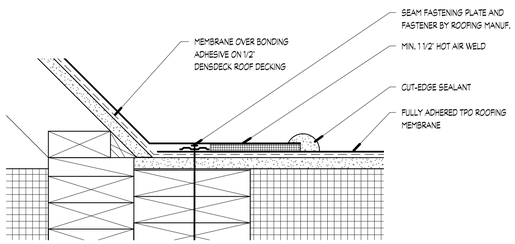
5 Section 3 - Callout 3

1 1/2" = 1'-0"



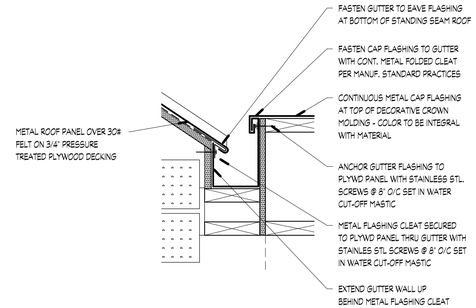
6 Detail @ Building Crown Cap Flashing

3" = 1'-0"



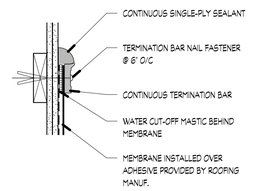
7 Detail @ Roof Membrane Parapet Flashing

3" = 1'-0"



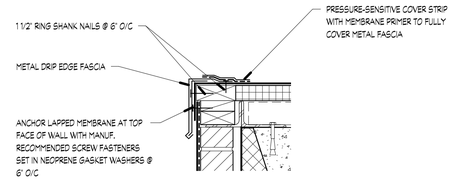
1 Detail @ Roof Gutter Flashing

1 1/2" = 1'-0"



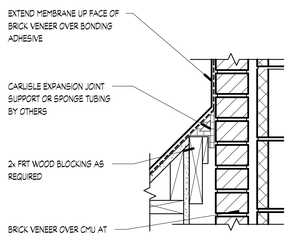
2 Detail @ Membrane Termination

1 1/2" = 1'-0"



3 Detail @ Membrane Drip Edge Flashing

1 1/2" = 1'-0"



4 Detail @ Roof to Wall Expansion Joint

1 1/2" = 1'-0"

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

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for

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ATTN: JOHN PATEL (PRES)
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EDMUND G. GARBEE III REGISTERED ARCHITECT 9/03/2021 STATE OF TENNESSEE

DRAWN:	EG
CHECKED:	EG
JOB No.	21-008
DATE:	September 3, 2021

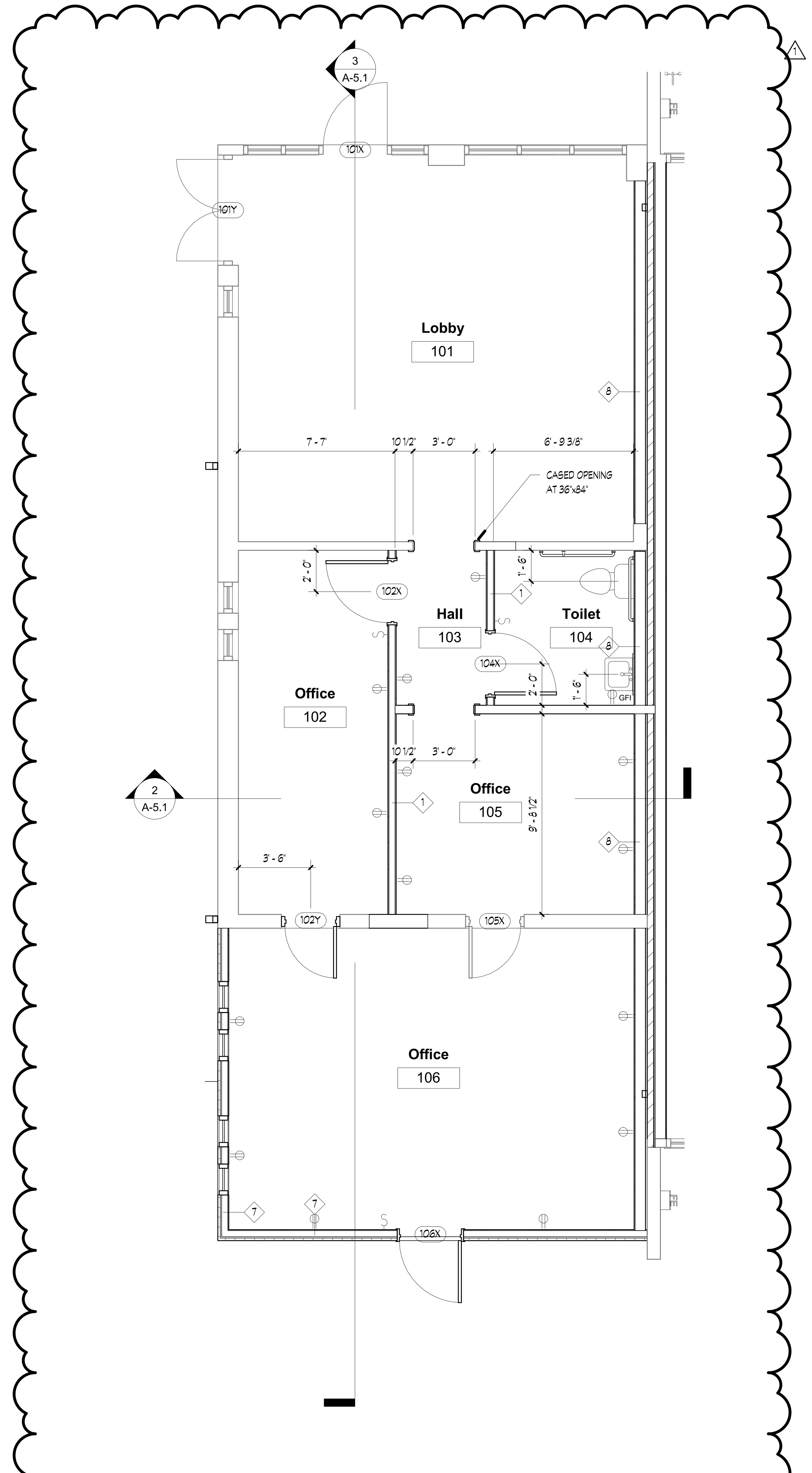
A-5.6

BUILDING - A

Large Scale Details

Garbee Architecture
PH: 423.364.2830

Revisions		
#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22



1 Large Scale Office Plan
1/4" = 1'-0"

KNOXVILLE INN RENOVATIONS

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KNOXVILLE, TN 37917

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MA &A
March Adams & Associates
Consulting Engineers
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Chattanooga, Tennessee 37404
PH: (423)698-6675

DRAWN:	Author
CHECKED:	Checker
JOB No.	21-008
DATE:	September 3, 2021

A-5.7

BUILDING - A

Large Scale Office Plan

Garbee Architecture
PH: 423.364.2830

HARDWARE SCHEDULE

TYPE 1: STORAGE
A. 1 1/2 PAIR HAGER BALL BEARING BB1279-4 1/2 x 4 1/2 x US26D
B. 1 SCHLAGE AL70PD SAT (CLASSROOM), US26D FINISH
C. 3 GLYNN JOHNSON SILENCERS
D. 1 SCHLAGE 1013 STRIKE 1 1/2" LIP LENGTH

TYPE 2: TOILET (PRIVACY)
A. 1 1/2 PAIR HAGER BALL BEARING BB1279-4 1/2 x 4 1/2 x US26D
B. 1 SCHLAGE AL40S SAT (PRIVACY LOCK), US26D FINISH
C. 3 GLYNN JOHNSON SILENCERS
D. 1 IVES #407 1/2 US26D FINISH WALL STOP - WHERE REQUIRED
E. 1 SCHLAGE 1013 STRIKE 1 1/2" LIP LENGTH

TYPE 3: OFFICE
A. 1 1/2 PAIR HAGER BALL BEARING BB1279-4 1/2 x 4 1/2 x 626
B. 1 SCHLAGE AL50PD SAT (ENTRANCE, OFFICE), US26D FINISH
C. 3 GLYNN JOHNSON SILENCERS
D. 1 BALDWIN 4210 FLOOR STOP
E. 1 SCHLAGE 1013 STRIKE 1 1/2" LIP LENGTH

TYPE 4: ALUMINUM STOREFRONT
A. 1 PAIR IVES#7215-INT INTERMEDIATE OFFSET PIVOTS
B. 1 GENERAL LOCK BRAND ADL SERIES MORTISE DEADLATCH
C. 1 GENERAL LOCK BRAND API SERIES PUSH/PULL PADDLE
D. 1 LCN PARALLEL ARM CLOSER 4050 SERIES, US26D FINISH
E. 1 BOTTOM DOOR SWEEPS
F. 1 KAWNEER A 1/2"x6 3/4" ALUMINUM MILL FINISH THRESHOLD

TYPE 5: ALUMINUM STOREFRONT
A. 2 PAIR IVES #7215-INT INTERMEDIATE OFFSET PIVOTS
B. 1 ADAMS-RITE #1850S SERIES MS DEADLOCK
C. 1 KAWNEER CONTROLLER LOCKING DEVICE
D. 1 PAIR BOTTOM DOOR SWEEPS
E. 2 LCN 4040XP SURFACE CLOSER WITHOUT ADJUSTABLE HOLD-OPEN
F. 1 SET PER DOOR CO-12 PULL WITH CP-I PUSH BAR
G. 1 KAWNEER A 1/2"x6 3/4" ALUMINUM MILL FINISH THRESHOLD

TYPE 6: APARTMENT PRIVACY
A. 1 1/2 PAIR HAGER BALL BEARING BB1279-4 1/2 x 4 1/2 x US26D
B. 1 SCHLAGE AL40S SAT (BATH/BEDROOM PRIVACY), US26D FINISH
C. 3 GLYNN JOHNSON SILENCERS
D. 1 SCHLAGE 1013 STRIKE 1 1/2" LIP LENGTH

TYPE 7: CLOSET
A. 1 1/2 PAIR HAGER BALL BEARING BB1279-4 1/2 x 4 1/2 x US26D
B. 1 SCHLAGE AL10S SAT (PASSAGE), US26D FINISH
C. 3 GLYNN JOHNSON SILENCERS
D. 1 SCHLAGE 1013 STRIKE 1 1/2" LIP LENGTH

TYPE 8: APARTMENT ENTRANCE
A. 1 1/2 PAIR HAGER BALL BEARING BB1279-4 1/2 x 4 1/2 x US26D
B. 1 HOTEL KEYCARD OPERATION DOOR SET
C. 3 GLYNN JOHNSON SILENCERS
D. 1 SCHLAGE 1013 STRIKE 1 1/2" LIP LENGTH
E. 1 ALUMINUM THRESHOLD
F. WEATHER STRIPPING

TYPE 9: ENTRANCE/OFFICE LOCK
A. 1 1/2 PAIR HAGER BALL BEARING BB1279-4 1/2 X 4 1/2 x US26D
B. 1 SCHLAGE AL50PD SAT (ENTRANCE, OFFICE), US26D FINISH
C. 3 GLYNN JOHNSON SILENCERS
D. 1 SCHLAGE 1013 STRIKE 1 1/2" LIP LENGTH
E. 1 ALUMINUM THRESHOLD
F. WEATHER STRIPPING

TYPE 10: ALUMINUM STOREFRONT
A. 1 PAIR IVES#7215-INT INTERMEDIATE OFFSET PIVOTS
B. 1 ADAMS RITE 8200 SERIES NARROW STILE VERTICAL ROD EXIT DEVICE
C. 1 ADAMS RITE PUSH BAR, US32D FINISH WITH MATCHING END CAPS
D. 1 LCN PARALLEL ARM CLOSER 4050 SERIES, US26D FINISH
E. 1 BOTTOM DOOR SWEEPS
F. 1 KAWNEER A 1/2"x6 3/4" ALUMINUM MILL FINISH THRESHOLD

Door Schedule

Mark	Phase Created	Width	Height	Door Type	Thickness	Head Detail	Jamb Detail	Hardware Schedule	Comments
101X	Existing	3' - 11 1/4"	6' - 9 1/2"	D4				4	
101Y	Existing	4' - 11"	6' - 9 1/2"	D3				5	
102X	New Construction	3' - 0"	6' - 8"	D1	1 3/4"			3	
102Y	New Construction	2' - 6"	7' - 0"	D1	1 3/4"			3	
104X	New Construction	3' - 0"	6' - 8"	D1	1 3/4"			2	
105X	Existing	2' - 6"	7' - 0"	D1	1 3/4"			3	
106X	New Construction	3' - 0"	6' - 8"	D2	1 3/4"	6	6	9	
107X	New Construction	3' - 0"	6' - 8"	D4	1 3/4"			10	
107Y	New Construction	3' - 0"	6' - 8"	D4	1 3/4"			10	
108A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
108C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
109A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
109C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
110A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
110C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
111A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
111C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
112A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
112C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
113A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
113C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
114A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
114C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
115A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
115C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
116A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
116C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
117A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
117C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
118A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
118C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
119A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
119C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
120A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
120C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
121A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
121C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
122A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
122C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
123A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
123C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
124A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
124C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
125A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
125C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
126A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
126C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
127A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
127C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
128A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
128C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
129A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
129C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
130A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
130C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
131A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
131C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
132A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
132C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
133A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
133C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
134A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
134C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
135A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
135C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
136A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
136C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
137A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
137C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
138X	New Construction	3' - 0"	7' - 0"	D2	1 3/4"	8	8	1	3/4 HR RATED
138Y	New Construction	3' - 0"	7' - 0"	D2	1 3/4"	9	9	1	1 HR RATED
207X	Existing	3' - 0"	6' - 8"	D4	1 3/4"			4	
207Y	Existing	3' - 0"	6' - 8"	D4	1 3/4"			4	
208A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
208C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
209A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
209C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
210A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
210C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
211A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
211C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
212A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
212C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
213A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
213C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
214A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
214C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
215A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
215C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
216A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
216C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
217A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
217C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
218A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
218C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
219A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
219C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
220A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
220C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	

Door Schedule

Mark	Phase Created	Width	Height	Door Type	Thickness	Head Detail	Jamb Detail	Hardware Schedule	Comments
221A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
221C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
222A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
222C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
223A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
223C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
224A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
224C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
225A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
225C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
226A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
226C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
227A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
227C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
228A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
228C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
229A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
229C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
230A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
230C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
231A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
231C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
232A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
232C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
233A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
233C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
234A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
234C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
235A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
235C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
236A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
236C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
237A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
237C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
238X	New Construction	3' - 0"	6' - 8"	D2	1 3/4"	8	8	1	3/4 HR RATED
307X	Existing	3' - 0"	6' - 8"	D4	1 3/4"			4	
307Y	Existing	3' - 0"	6' - 8"	D4	1 3/4"			4	
308A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
308C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
309A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
309C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
310A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
310C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
311A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
311C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
312A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
312C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
313A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
313C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
314A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
314C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
315A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
315C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
316A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
316C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
317A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
317C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
318A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
318C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
319A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
319C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
320A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
320C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
321A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
321C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
322A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
322C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
323A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
323C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
324A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
324C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
325A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
325C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
326A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
326C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
327A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
327C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
328A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
328C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
329A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
329C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
330A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
330C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
331A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
331C	Existing	2' - 0"	6' - 8"	D1	1 3/4"	1	1	6	
331C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
332A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
332C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
333A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
333C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
334A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
334C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
335A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
335C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
336A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
336C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
337A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
337C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
338X	New Construction	3' - 0"	6' - 8"	D2	1 3/4"	8	8	1	3/4 HR RATED

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)

400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

March Adams & Associates
Consulting Engineers

310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

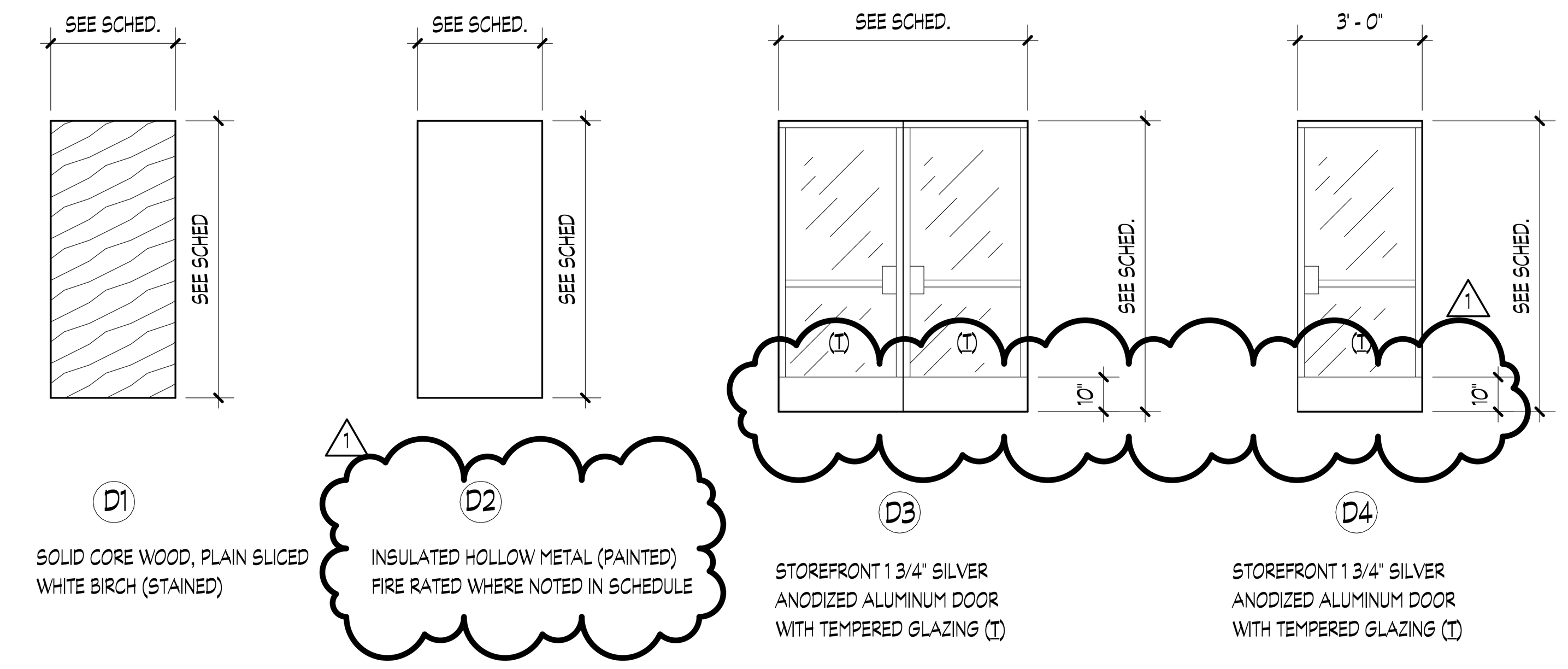
EDMUND G. GARBEE III — REGISTERED ARCHITECT — 9/03/2021 — STATE OF TENNESSEE

DRAWN:	EG
CHECKED:	EG
JOB No.	21-008
DATE:	September 3, 2021

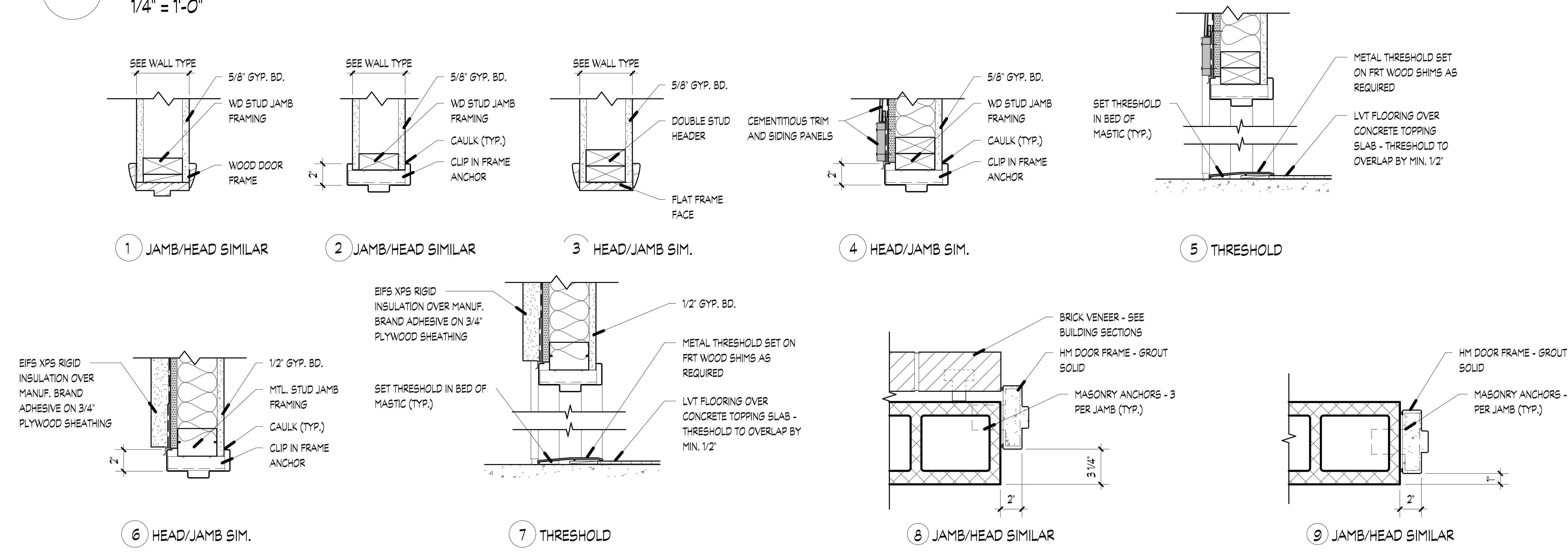
A-6.1

BUILDING - A
Door Schedule and Hardware

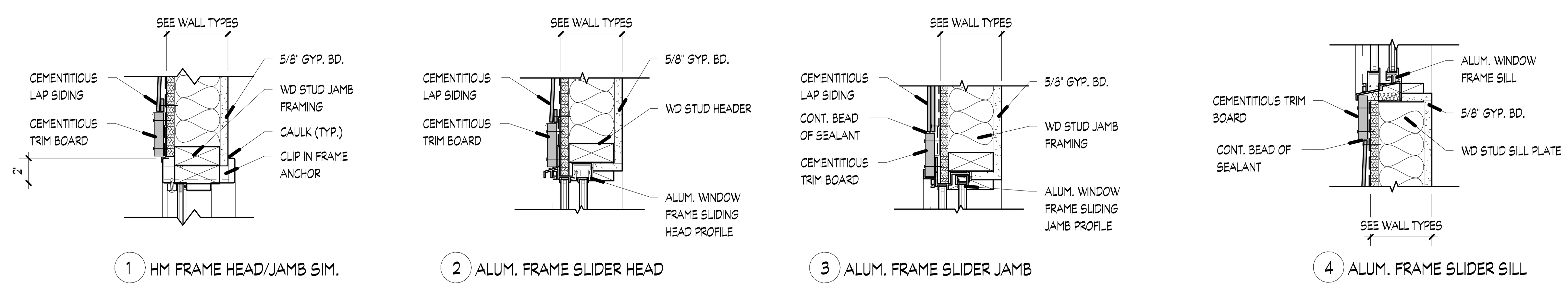
Garbee Architecture
PH: 423.364.2830



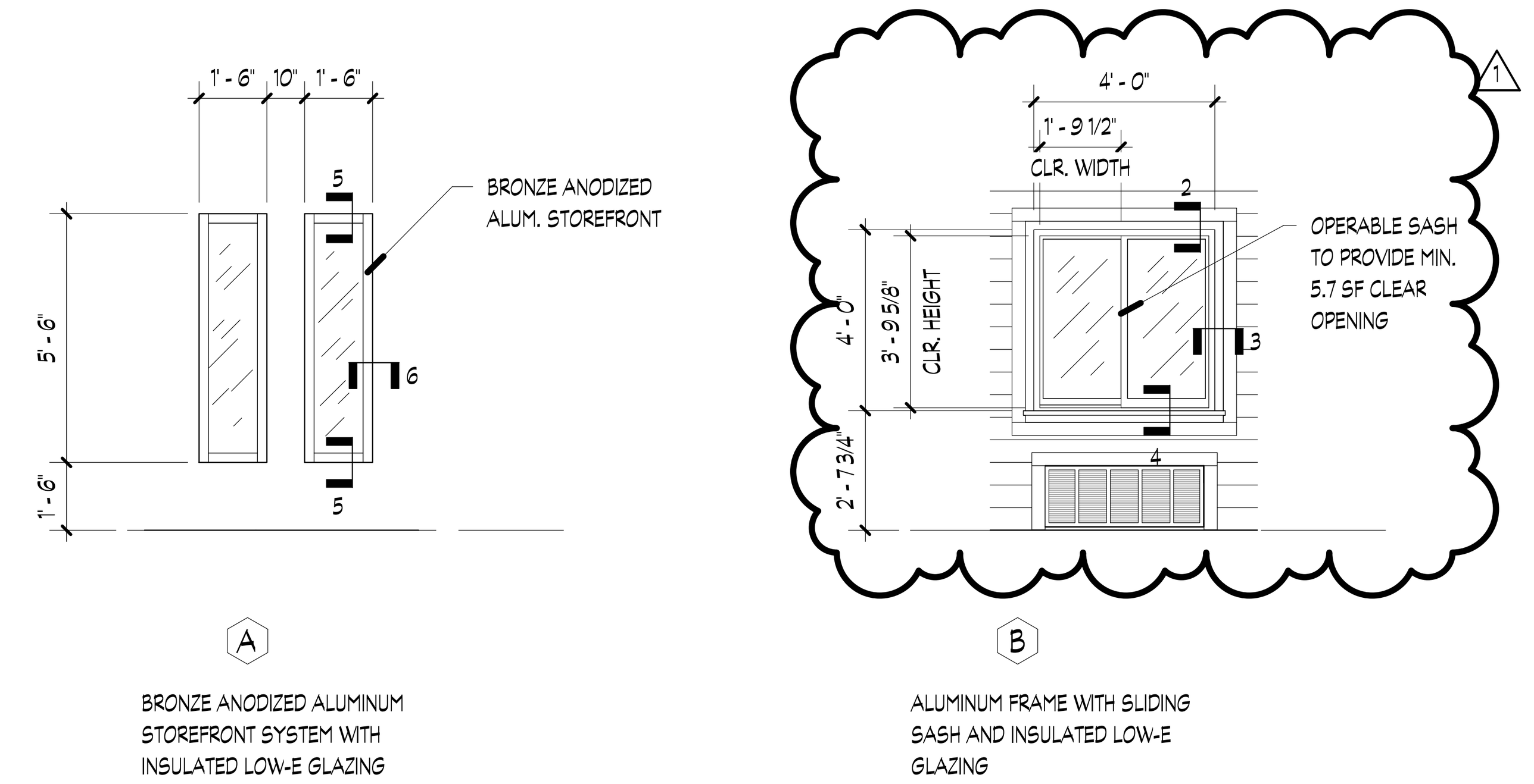
1 Door Types
1/4" = 1'-0"



2 Door Details
1 1/2" = 1'-0"



3 Window Details
1 1/2" = 1'-0"



4 Window Types
1/4" = 1'-0"

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)
400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

MA &A
March Adams & Associates
Consulting Engineers
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

9/03/2021

DRAWN:	EG
CHECKED:	EG
JOB No.	21-008
DATE:	September 3, 2021

A-6.2

BUILDING - A
Door and Window Types and Details

Garbee Architecture
PH: 423.364.2830

DESIGN CRITERIA
GOVERNING BUILDING CODE – 2018 EDITION OF THE INTERNATIONAL BUILDING CODE

DESIGN LOADS

LIVE LOADS:
STORAGE = 125 PSF
CEILING LOAD = 10 PSF

DEAD LOADS:
COLLATERAL LOAD = 10 PSF

WIND LOADS:
BASIC WIND SPEED = 115 MPH
WIND IMPORTANCE FACTOR (I) = 1.5
WIND EXPOSURE = B
INTERNAL PRESSURE FACTOR = ± 0.18

EARTHQUAKE DESIGN DATA:
SEISMIC USE GROUP/OCCUPANCY CATEGORY = II
IMPORTANT FACTOR = 1.0
SITE CLASS = D
SPECTRAL RESPONSE COEFFICIENTS
S_S = 0.415g
S_1 = 0.125g
DESIGN CATEGORY = D
BASIC SEISMIC-FORCE RESISTING SYSTEM:
LIGHT FRAMED WALL USING FLAT STRAP BRACING AND/OR PLWOOD/OSB SHEETING AND ORDINARY REINFORCED MASONRY SHEAR WALLS

ANALYSIS PROCEDURE – EQUIVALENT LATERAL FORCE

GENERAL NOTES:
1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO STARTING WORK.
2. DRAWING NOTES ARE INSTRUCTIONS TO THE CONTRACTOR AND APPLY GENERALLY TO ALL THE WORK UNLESS MORE SPECIFIC INFORMATION IS SHOWN ELSEWHERE ON THE DRAWINGS OR WRITTEN IN SPECIFICATIONS.
3. SECTIONS AND DETAILS SHOWN FOR ONE CONDITION SHALL APPLY TO ALL LIKE AND SIMILAR CONDITIONS.
4. CONFORM TO THE 2012 EDITION OF THE INTERNATIONAL BUILDING CODE AND ANY AMENDMENTS ADOPTED BY THE LOCAL GOVERNING AUTHORITY.
5. TAKE DIMENSIONS TO CENTERS OF COLUMNS, BEAMS, PIERS, AND PILASTERS; FACES OF WALLS; AND TO EDGES OF OPENINGS UNLESS SHOWN OTHERWISE.
6. THE CONTRACTOR SHALL COORDINATE THESE STRUCTURAL DRAWINGS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, LANDSCAPE, AND OTHER DRAWINGS; AND FABRICATION AND FIELD CONDITIONS. WHERE DISCREPANCIES EXIST BETWEEN STRUCTURAL AND OTHER DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER IMMEDIATELY AND WAIT FOR INSTRUCTION.
7. THE ROOF SHALL BE SLOPED TO DRAIN MINIMUM 1/8" PER FOOT, OR AS SHOWN ON ARCHITECTURAL DRAWINGS. SLOPE ON FLAT ROOF FRAMING SHALL BE ATTAINED THROUGH TAPERED INSULATION.
8. ROOF DRAINS SHALL BE KEPT UNCLOGGED BY REGULAR MAINTENANCE TO PREVENT WATER BUILD-UP ON ROOF.
9. SEE MECHANICAL AND ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS IN ROOF, FLOORS, AND WALLS NOT SHOWN ON THESE DRAWINGS. OPENINGS LARGER THAN 12" MUST BE REINFORCED, UNLESS NOTED OTHERWISE ON PLAN.
10. IF CONDITIONS ENCOUNTERED DURING CONSTRUCTION DIFFER FROM WHAT IS SHOWN ON THE CONTRACT DRAWINGS, THE STRUCTURAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY AND WORK SHALL NOT PROGRESS UNTIL ALL PROBLEMS ARE RESOLVED TO THE SATISFACTION OF THE STRUCTURAL ENGINEER.
11. THE CONTRACTOR SHALL PROVIDE ALL SHORING AND BRACING REQUIRED TO MAINTAIN THE SAFETY AND STABILITY OF THE STRUCTURE THROUGHOUT CONSTRUCTION.
12. STRUCTURAL WORK SUPPORTING MECHANICAL EQUIPMENT SHALL BE VERIFIED WITH THE EQUIPMENT SUPPLIER AND MECHANICAL ENGINEER PRIOR TO FABRICATION AND CONSTRUCTION.
13. THE STRUCTURAL CONSTRUCTION DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO: BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES FOR THE PROCEDURE OF CONSTRUCTION, OR THE SAFETY PRECAUTIONS AND THE PROGRAMS INCIDENT THERETO (NOR SHALL OBSERVATION VISITS TO THE SITE INCLUDE INSPECTION OF THESE ITEMS).
14. NOTES AND DETAILS ON THESE DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.
15. IN THE EVENT THAT DISCREPANCIES EXIST THE STRICTER OR MOST CONSERVATIVE REQUIREMENT SHALL BE FOLLOWED. IN ALL OTHER CASES THE CONTRACTOR SHALL INFORM THE ARCHITECT OR STRUCTURAL ENGINEER AND AWAIT INSTRUCTION. DISCREPANCIES SHALL NOT BE PERMITTED AS A BASIS FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THE REQUIREMENTS OF THE PROJECT OR AS A BASIS FOR CLAIMS FOR ADDITIONAL WORK.

FOUNDATIONS AND RETAINING WALLS
1. THE STRUCTURAL ENGINEER ASSUME NO RESPONSIBILITY FOR THE TRUTH OF THE SUBSURFACE CONDITIONS PRESENTED ON THE DRAWINGS AND IN BORING OR TEST PIT REPORTS. THE DATA IS INTENDED FOR THE PREPARATION OF BIDS AND SUBSEQUENT CONSTRUCTION. THEY REPRESENT CONDITIONS ONLY AT THOSE SPECIFIC LOCATIONS AT THE TIME THEY WERE MADE.
2. ALL FOUNDATION/RETAINING WALLS SHALL BE ADEQUATELY BRACED DURING CONSTRUCTION TO MAINTAIN SAFETY AND STABILITY. BACKFILLING SHALL NOT BE PERMITTED UNTIL FLOOR STRUCTURES ARE COMPLETED AND CONCRETE HAS ACHIEVED 7 DAY STRENGTH.
3. CARRY EXTERIOR FOUNDATIONS DOWN AT LEAST 12 INCHES BELOW THE LOWEST EXTERIOR GRADE WITHIN 6 FEET OF THE FACE OF FOOTING.
4. PREVENT SOILS SUPPORTING FOUNDATIONS FROM FREEZING. REMOVE ANY FROZEN SOIL AND REPLACE WITH CONCRETE IF UNDER FOOTINGS OR WITH COMPACTED GRANULAR FILL IF UNDER SLABS ON GRADE.
5. VAPOR BARRIER UNDER SLABS ON GRADE SHALL BE IN ACCORDANCE WITH THE FOUNDATION PLAN. VAPOR BARRIER LAP JOINTS SHALL BE AT LEAST 6 INCHES.

EARTHWORK AND EXCAVATION
1. THE MINIMUM SOIL BEARING PRESSURE SHALL BE NO LESS THAN 1500 PSF. COMPACTED SOILS SHALL BE COMPACTED TO 95% STANDARD PROCTOR.
2. THE SITE WITHIN THE FOOTPRINT OF ALL PROPOSED CONSTRUCTION SHALL BE CLEARED OF ALL VEGETATION AND ORGANIC MATERIAL UNTIL ACCEPTABLE SUB-GRADE MATERIAL IS MET THAT CONFORMS ENGINEER'S RECOMMENDATIONS.
3. ALL FILL AND BACKFILL BEING USED UNDER SLABS, OR OTHER STRUCTURAL APPLICATIONS, SHALL BE TESTED FOR SUITABILITY. A SOIL CLASSIFICATION IS TO BE DEVELOPED USING ASTM D442 AND D2488. IF THE SOILS CONTAIN MORE THAN 10% SILTS OR CLAYS, THEN D2487 SHALL BE USED TO CLASSIFY THEM.
4. OTHER SOILS MAY BE CONSIDERED FOR USE IF THEY ARE EVALUATED AND ACCEPTED BY A GEO-TECHNICAL ENGINEER. THE REPORT SHALL CONTAIN RECOMMENDATIONS FOR HANDLING AND PLACEMENT AND BE SEALED BY A LICENSED ENGINEER.
5. NO FILL OR BACKFILL CONTAINING STONES OVER 3", FROZEN MATERIAL, DEBRIS, OR ORGANIC MATTER WILL BE PERMITTED.
6. ALL FILL WITHIN 6" OF THE BOTTOM OF SLABS SHALL BE "NON-FROST SUSCEPTIBLE". UNIFIED CLASSIFICATION GROUPS GW, SW, GP, AND SP WITH A MAXIMUM OF 3% PASSING THE #200 SIEVE MEET THIS REQUIREMENT. THESE ARE CLEAN SANDS AND GRAVEL.
7. FILL BELOW 6" SHALL BE FREE-DRAINING. THESE MAY INCLUDE SANDS AND GRAVEL WITH SOME NON-PLASTIC FINES OR INORGANIC SILTS.
8. THE MAXIMUM COMPACTION AND OPTIMUM MOISTURE OF THE SOIL SHALL BE DETERMINED USING ASTM D1557 OR D4253/4254, WHICHEVER IS MORE SUITABLE.
9. THE FILL OR BACKFILL SHALL BE REQUIRED AS PER GEO-TECHNICAL ENGINEER AND GEO-TECHNICAL REPORT. UNDER NO CIRCUMSTANCES WILL DEEP FILLS OR COMPACTING USING PUDDLING OR PONDING METHOD BE ALLOWED.
10. ALL SOILS TESTS, DENSITY TESTS, AND FIELD INSPECTION OF COMPACTION PROCEDURES SHALL BE PERFORMED BY A TESTING LABORATORY EMPLOYED AND PAID BY THE OWNER.
11. ELEVATIONS SHOWN ON THE DRAWINGS ARE MINIMUM REQUIRED DEPTHS. EXCAVATE DEEPER, IF NEEDED, TO REACH SOIL WITH THE SPECIFIED BEARING STRENGTH OR INCREASE FOOTING SIZE AT THE DIRECTION OF THE STRUCTURAL ENGINEER.
12. DO NOT EXCAVATE FOR FOOTINGS BELOW A LINE INCLINED DOWN 30 DEGREES FROM NEARBY FOOTINGS UNLESS THE EVACUATION IS ADEQUATELY BRACED OR APPROVED BY THE STRUCTURAL ENGINEER.

CONCRETE
1. COMPLY WITH THE LATEST EDITION OF THE STANDARD SPECIFICATION FOR STRUCTURAL CONCRETE IN BUILDINGS, ACI 301; AND THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 318.
2. CENTER FOOTINGS AND PIERS UNDER SUPPORTED MEMBERS, UNLESS SHOWN OTHERWISE.
3. CONTRACTOR SHALL COORDINATE WITH WORK OF ALL OTHER TRADES AND WHERE REQUIRED INSTALL ALL BUILT-IN WORK, SLEEVES, INSERTS, ETC. AS REQUIRED. INSTALL ONLY STEEL, CAST IRON PIPE, OR PVC PIPE SLEEVES IN CONCRETE SLABS, BEAMS AND WALLS. ALL UTILITY PIPES THAT PENETRATE THE FOUNDATION SHALL PENETRATE THE CONCRETE STEM WALL ABOVE THE FOOTING. WHERE UTILITY PIPE IS LOWER IN ELEVATION THAN TOP OF FOOTING, THE FOOTING SHALL BE STEPPED TO A LOWER ELEVATION TO ACCOMMODATE THE PENETRATION.
4. SEAT CONCRETE BEAMS AT LEAST 4 INCHES INTO WALLS. REINFORCE BEAM TO WALL JOINTS WITH 2-#6 BARS TOP AND BOTTOM.
5. PROPORTION, MIX, AND PLACE CONCRETE UNDER THE SUPERVISION OF AN APPROVED CONCRETE CONTROL ENGINEER.
6. ALL STRUCTURAL MEMBERS SHALL BE POURED FOR THEIR FULL DEPTHS IN ONE OPERATION.
7. PROVIDE CONCRETE WITH 28 DAY COMPRESSIVE STRENGTHS FOR THE FOLLOWING USES:

USE	STRENGTH (PSI)
FOOTINGS AND FOUNDATIONS	4000
CONCRETE SLABS	4000
COMPOSITE FLOOR SLAB BY COMPOSITE FLOOR MANUFACTURER	(3000 MINIMUM)

8. CONTRACTOR SHALL SUBMIT CONCRETE MIX REPORT WITH COMPRESSION TEST RESULTS TO STRUCTURAL ENGINEER FOR REVIEW PRIOR TO START OF FOUNDATION CONSTRUCTION. REPRESENTATIVE TEST CYLINDERS SHALL BE TAKEN FROM THE CONCRETE IN ACCORDANCE WITH ACI CONCRETE RECOMMENDATIONS. TESTING SHALL BE PERFORMED AT 7 AND 28 DAYS.
9. PROVIDE 6% AIR ENTRAINED CONCRETE EXPOSED TO EARTH OR WEATHER.
10. PROVIDE DOWELS INTO FOOTINGS/PILE CAP/GRADE BEAM TO MATCH VERTICAL BARS.
11. DO NOT OMIT, RELOCATE, OR ADD CONSTRUCTION JOINTS UNLESS APPROVED BY THE STRUCTURAL ENGINEER. EXPANSION JOINTS ARE MANDATORY AS SHOWN.
12. PROVIDE DOWELS, 2" X 4" MINIMUM KEY WAYS, AND 24 BAR DIAMETER LAP MINIMUM OF REINFORCEMENT AT ALL CONSTRUCTION JOINTS. ALLOW 48 HOURS TO ELAPSE BETWEEN ADJACENT SLAB POURS. PROVIDE WATER STOPS IN SLABS ON GRADE AND FOUNDATION WALLS.
13. PROVIDE KEYED CONSTRUCTION JOINTS NO GREATER THAN 40 FEET APART IN FOUNDATION WALLS.
14. SLAB ON GRADE TO BE POURED IN STRIPS. CONSTRUCTION OR CONTROL JOINTS SHALL FOR SLAB ON GRADE(CONTROL JOINT NOT ALLOWED IN GROUND AND FLOOR STRUCTURAL SLAB) HAVE SPACING IN EITHER DIRECTION IN ACCORDANCE WITH THE FOLLOWING CHART:

SLAB THICKNESS	SPACING (+/- 2 FEET)
4"	10'-0"
5"	12'-0"
6"	15'-0"
7"	17'-0"
8"	20'-0"
9"	22'-0"
10"	25'-0"
GREATER THAN 10"	30'-0" MAXIMUM

15. ALL WALL AND PIER FOOTINGS SHALL HAVE A MINIMUM THICKNESS OF 12" AND PROJECT 6" BEYOND PIER OR WALL FACES, UNLESS NOTED OTHERWISE.
16. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED. MAXIMUM SLUMP OF 4 1/2" FOR CONCRETE WITHOUT PLASTICIZER. IF PLASTICIZER IS USED, A HIGHER FINAL SLUMP MAY BE ALLOWED UPON APPROVAL OF THE STRUCTURAL ENGINEER. NO FLY ASH ADDITIVE IS ALLOWED.
17. TOP OF ALL FOUNDATION WALLS AND PIERS SHALL BE LEVEL.
18. ALL EXPOSED EDGES OF CONCRETE ABOVE FINISHED FLOOR SHALL HAVE A 3/4" X 3/4" CHAMFER.
19. PROVIDE #3 NOSING BAR AT EACH CONCRETE STEP.

REINFORCING STEEL
1. CONFORM TO THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, ACI 315; THE STANDARD SPECIFICATION FOR STRUCTURAL CONCRETE IN BUILDINGS, ACI 301; AND THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 318.
2. SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.
3. PROVIDE REINFORCING STEEL MEETING THE STANDARDS OF ASTM A615 GRADE 60.
4. PROVIDE WELDED WIRE FABRIC IN FLAT SHEETS MEETING THE STANDARDS OF ASTM A185.
5. LAP SPLICES, UNLESS NOTED OTHERWISE, SHALL BE CLASS "B" TENSION LAP SPLICES. RUN REINFORCING BARS CONTINUOUSLY LAPPED AT SPLICES AND AROUND CORNERS. DOWEL INTO INTERSECTING WALLS AND HOOK AT ENDS. STAGGER SPLICES MINIMUM OF ONE LAP LENGTH WHEREVER POSSIBLE.
6. AT EDGES OF OPENINGS PROVIDE 2-#5 IN SLABS (TOP AND BOTTOM) AND 2-#6 IN WALLS AND GRADE BEAMS (ONE EACH FACE) EXTENDING 2'-0" BEYOND OPENING OR HOOKED IF NEEDED.
7. PROVIDE, AND SCHEDULE ON SHOP DRAWINGS, ACCESSORIES TO HOLD REINFORCING IN POSITION. SPACE HIGH CHAIRS NO MORE THAN 48" APART, WIRE TO BOTTOM REINFORCING. PROVIDE #5 SUPPORT BARS ON HIGH CHAIRS. SPACE SLAB BOLSTERS NO MORE THAN 3'-6" APART.
8. CLEARANCE OF MAIN REINFORCING BARS FROM ADJACENT CONCRETE SURFACES SHALL BE:

STRUCTURAL ELEMENT AND CONDITION	MINIMUM COVER
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
CONCRETE EXPOSED TO WEATHER	
#6 THROUGH #18 BARS	2"
#5 BAR, W31, OR D31, AND SMALLER	$1\frac{1}{2}$"
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	
SLABS, WALLS, AND JOISTS: #11 BAR AND SMALLER	$\frac{3}{4}$"
BEAMS, COLUMNS: PRIMARY REINF., TIES, STIRRUPS, AND SPIRALS	$1\frac{1}{2}$"*

* CARRY TOPS OF STIRRUPS IN CONCRETE BEAMS TO WITHIN 1" OF CONCRETE SURFACE. THE MAXIMUM ALLOWABLE DEVIATION FROM THE FIGURES ABOVE, WHEN PLACING REINFORCING IN THE FORMS SHALL BE $\frac{1}{4}$" FOR CONCRETE SHAPES 10" OR LESS IN DEPTH OR WIDTH AND $\frac{1}{2}$" FOR CONCRETE SHAPES MORE THAN 10" IN DEPTH OR WIDTH.
9. WHERE NOT SCHEDULED, PROVIDE #3 STIRRUPS AT 12" O.C. STIRRUPS ARE CLOSED UNLESS NOTED OTHERWISE.
10. PLACE TEMPERATURE BARS PERPENDICULAR TO ALL MAIN REINFORCING BARS AND LAP 36 BAR DIAMETERS. PLACE TEMPERATURE BARS IN UPPER LAYER FOR BOTTOM STEEL AND IN LOWER LAYER FOR TOP STEEL.
11. DO NOT CUT OR DISPLACE REINFORCING STEEL TO ACCOMMODATE THE INSTALLATION OF EMBEDDED ITEMS WITHOUT APPROVAL FROM THE STRUCTURAL ENGINEER.

STRUCTURAL STEEL NOTES:
1. STRUCTURAL STEEL SHALL CONFORM TO ASTM A572 GRADE 50, SQUARE STRUCTURAL TUBES SHALL CONFORM TO ASTM A500 GRADE B. STRUCTURAL PIPES SHALL CONFORM TO ASTM A53 GRADE B, AND STRUCTURAL CHANNELS, PLATES AND ANGLES SHALL CONFORM TO ASTM A36 UNLESS OTHERWISE NOTED ON DRAWINGS
2. STRUCTURAL STEEL DETAILING, FABRICATION, AND ERECTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "MANUAL OF STEEL CONSTRUCTION" OF THE AMERICAN INSTITUTE STEEL CONSTRUCTION. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW. MOMENT CONNECTIONS SHALL BE DESIGNED BY A ENGINEER REGISTERED IN THE STATE WHERE PROJECT IS BEING BUILT. SUBMIT SIGNED AND SEALED CALCULATIONS IN WITH SHOP DRAWINGS. SHOP DRAWINGS SHALL SHOW COMPLETE WELDING INFORMATION, BOTH SHOP AND FIELD, USING AMERICAN WELDING SOCIETY SYMBOLS UNLESS OTHERWISE INDICATED OR SHOWN. BOLTED CONNECTIONS SHALL BE MADE USING 3/4" DIAMETER BOLTS CONFORMING TO ASTM A325 UNLESS OTHERWISE NOTED. THEY SHALL BE INSTALLED AND INSPECTED IN STRICT CONFORMANCE TO THE AISC SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS.
3. CONNECTIONS FOR BEAMS WHICH CANNOT CONFORM TO THE TYPICAL CONNECTION DETAILS SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
A. WHERE BEAM REACTIONS ARE NOT SHOWN ON THE DRAWINGS, CONNECTIONS SHALL BE DETAILED FOR THE MAXIMUM UNIFORM LOAD WHICH THE BEAM WILL SUPPORT (AS SIMPLE SPAN) FOR THE SPAN SHOWN ON THE DRAWINGS. WITH COMPOSITE BEAMS, USE 1 1/2 THESE VALUES.
B. WHERE BEAM REACTIONS ARE SHOWN ON THE DRAWINGS THE CONNECTIONS SHALL DEVELOP THE REACTIONS SHOWN.
C. WHERE CONNECTIONS ARE SUBJECT TO ECCENTRICITY, SUCH ECCENTRICITY SHALL BE TAKEN INTO ACCOUNT WHEN DETAILING THE CONNECTION.
D. CONNECTIONS FOR BEAMS WHICH CANNOT CONFORM TO THE TYPICAL CONNECTION DETAILS SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
4. STRUCTURAL STEEL HAS BEEN DESIGNED USING THE ASD METHOD.
5. ALL WELDS SHALL BE MADE BY AWS CERTIFIED WELDER WITH CERTIFICATION DATED NO LESS THAN 6 MONTHS PRIOR TO THE DATE WELDS ARE MADE. CURRENT WELDERS CERTIFICATIONS SHALL BE PRESENTED TO OWNER OR CONTRACTOR FOR FILE PRIOR TO MAKING WELDS.

HOLLOW LOAD BEARING MASONRY
1. HOLLOW LOAD BEARING MASONRY UNITS SHALL CONFORM TO ASTM C90, LIGHTWEIGHT, WITH A MINIMUM COMPRESSIVE STRENGTH OF f'm = 1500 PSI ON THE NET BLOCK AREA.
2. MORTAR SHALL CONFORM TO ASTM C270 CEMENT LIME, TYPE M OR S.
3. VERTICAL CELL, LINTELS AND BOND BEAMS SHALL BE FILLED WITH GROUT AND GROUT SHALL CONFORM TO ASTM C476 WITH A MINIMUM AGGREGATE SIZE OF $\frac{3}{8}$" AND A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
4. REINFORCING SHALL BE LAPPED IN ACCORDANCE WITH CLASS "B" TENSION SPLICES UNLESS NOTED OTHERWISE.
5. HORIZONTAL REINFORCING SHALL BE #9 TRUSS WIRE REINFORCING SPACED AT 16" ON CENTER VERTICAL. LAPS IN TRUSS WIRE REINFORCING SHALL BE 16" MINIMUM.
6. WHERE NOT OTHERWISE SHOWN, MASONRY WALL FOOTING SHALL BE 10" THICK AND HAVE A MINIMUM OF $3\frac{1}{4}$" PROJECTION ON EACH SIDE OF THE WALL AND SHALL BE REINFORCED WITH 2-#5 CONTINUOUS.
7. CONCRETE MASONRY HAS BEEN DESIGN TO BE INSPECTED. INSPECTION SHALL INCLUDE GENERAL INSPECTION OF WORK IN PROGRESS TO CONFIRM THAT THE MATERIALS, CONSTRUCTION, AND WORKMANSHIP ARE IN COMPLIANCE WITH PLANS AND GOOD CONSTRUCTION PRACTICES. ADDITIONALLY, MORTAR MAY BE SAMPLED IN 2" DIAMETER x 4" CYLINDERS AND TESTED IN ACCORDANCE WITH ASTM C780. EACH TEST SHALL CONSIST OF THREE SPECIMENS AND FOLLOW THIS SCHEDULE: ONE TEST PER DAY FOR THE FIRST THREE DAYS; ONE TEST PER WEEK OR PER EVERY 2500 SQUARE FEET OF WALL WHICHEVER OCCURS FIRST. MORTAR SHALL TEST AT 1500 PSI MINIMUM COMPRESSIVE STRENGTH. INSPECTION SERVICES SHALL BE PERFORMED BY A BUILDING MATERIALS TESTING ENGINEERING FIRM AND SHALL BE PAID FOR BY THE OWNER.

INTEGRATED STRUCTURAL SERVICES, INC.
40 STAGECOACH ROAD
RINGGOLD, GA 30736
PHONE: 423-991-1474
EMAIL: COMPANY@ISSIGA.COM

REVISIONS

#	REVISION	DATE
1	ADD #1 City Review Comments	3/25/22

KNOXVILLE INN RENOVATIONS
at
1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)
400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

MA &A
March Adams & Associates
Consulting Engineers
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

STEVEN B. SANDLIN
STATE OF TENNESSEE
9/3/21

DRAWN: SS
CHECKED: MS
JOB No.
DATE: 9/3/21

S0

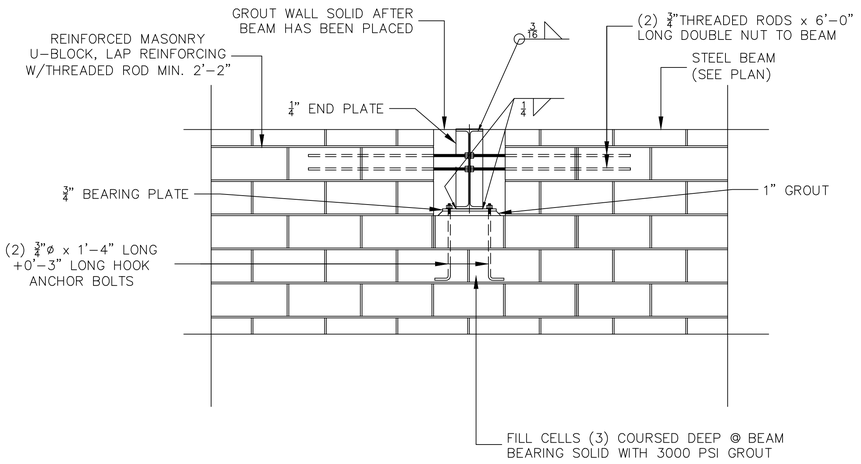
GENERAL NOTES

TIMBER NOTES:

1. ALL TIMBER SHALL BE #2 SOUTHERN YELLOW PINE (MOISTURE CONTENT–19% MAX.) OR EQUAL UNLESS NOTED OTHERWISE ON DRAWINGS.
2. ALL JOIST TO BEAM, BEAM TO COLUMN, AND COLUMN TO FOUNDATION CONNECTIONS SHALL EMPLOY METAL ANCHORS. TOE OR END NAILING OF JOISTS SHALL NOT BE PERMITTED. METAL ANCHORS SHALL BE AS MANUFACTURED BY SIMPSON STRONG–TIE COMPANY OR EQUAL.
3. PROVIDE ONE ROW OF BRIDGING FOR EACH 8'–0" SPAN OF FLOOR JOISTS.
4. CUTS IN JOISTS TO INSTALL PLUMBING OR WIRING SHALL BE IN ACCORDANCE WITH APPLICABLE BUILDING CODE.
5. LVL BEAMS SHALL BE BOLTED TOGETHER USING 2 ROWS OF 1/2"ø BOLTS @ 12" O.C. AND TWO ADDITIONAL BOLTS AT EACH END, UNLESS NOTED OTHERWISE.
6. ALL MICRO–LAM HEADERS AND BEAMS SHALL BE LAMINATED VENEER LUMBER (LVL) AS MANUFACTURED IN ACCORDANCE WITH APA PRODUCT REPORT PR–L–301 AND SHALL PROVIDE STRESS VALUES THAT MEET OR EXCEED THE FOLLOWING MINIMUM VALUES :

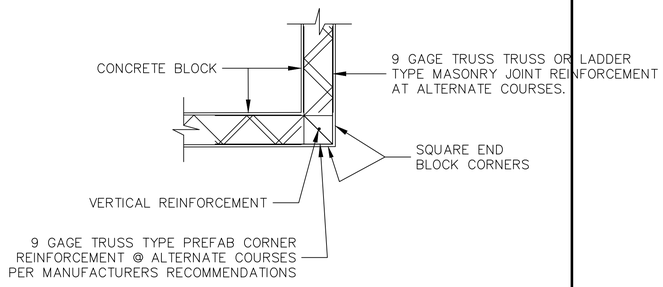
   F_b = 2850 PSI
   E = 1,700,000 PSI

7. WOOD DECKING SHALL BE NOMINAL 5/8" THICK (0.594" ACTUAL), STRUCTURAL I 24" SPAN RATED ORIENTED STRAND BOARD SHEETING LAMINATING ADHESIVE SHALL BE 100% EXTERIOR WATERPROOF TYPE.
8. TRUSS MEMBERS AND CONNECTOR PLATES SHALL BE DESIGNED IN ACCORDANCE WITH TRUSS PLATE INSTITUTE FOR THE LOADING STATED IN THE DESIGN LOADS FOR THIS PROJECT. CONNECTOR PLATES WITHIN 1" OF EDGE OF END OF MEMBER AT ANY JOINT SHALL NOT BE CONSIDERED IN DEVELOPING STRESS.



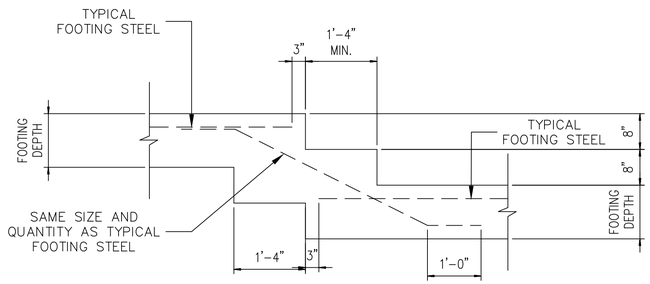
TYPICAL BEAM BEARING PERPENDICULAR TO WALL

N.T.S.



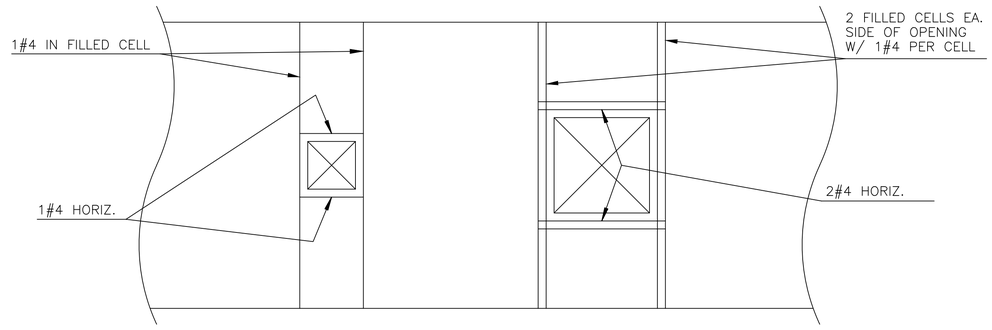
TYPICAL CONCRETE BLOCK CORNER DETAIL

N.T.S.



STEPPED FOOTING DETAIL

N.T.S.



CASE 1 CASE 2

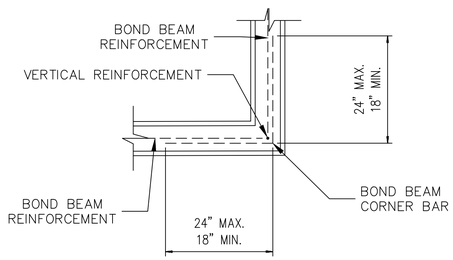
TYPICAL REINFORCEMENT AROUND WALL OPENINGS DETAIL

NOT TO SCALE:

CASE 1. NON–STRUCTURAL PARTITIONS & OPENINGS 2'–0" OR LESS IN STRUCTURAL PARTITIONS OR EXTERIOR WALLS.

CASE 2. OPENINGS IN STRUCTURAL PARTITIONS & EXTERIOR WALLS WHICH EXCEED 2'–0" IN EITHER DIRECTION. ALSO APPLIES TO DOOR OPENINGS IN ELEVATOR SHAFTS.

NOTE: FOR BOTH CASES, A LINTEL OR BOND BEAM MAY CONSTITUTE HORIZONTAL REINFORCING.



TYPICAL BOND BEAM CORNER REINFORCING DETAIL

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)
400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

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310 Dodds Ave.
P.O. Box 3689
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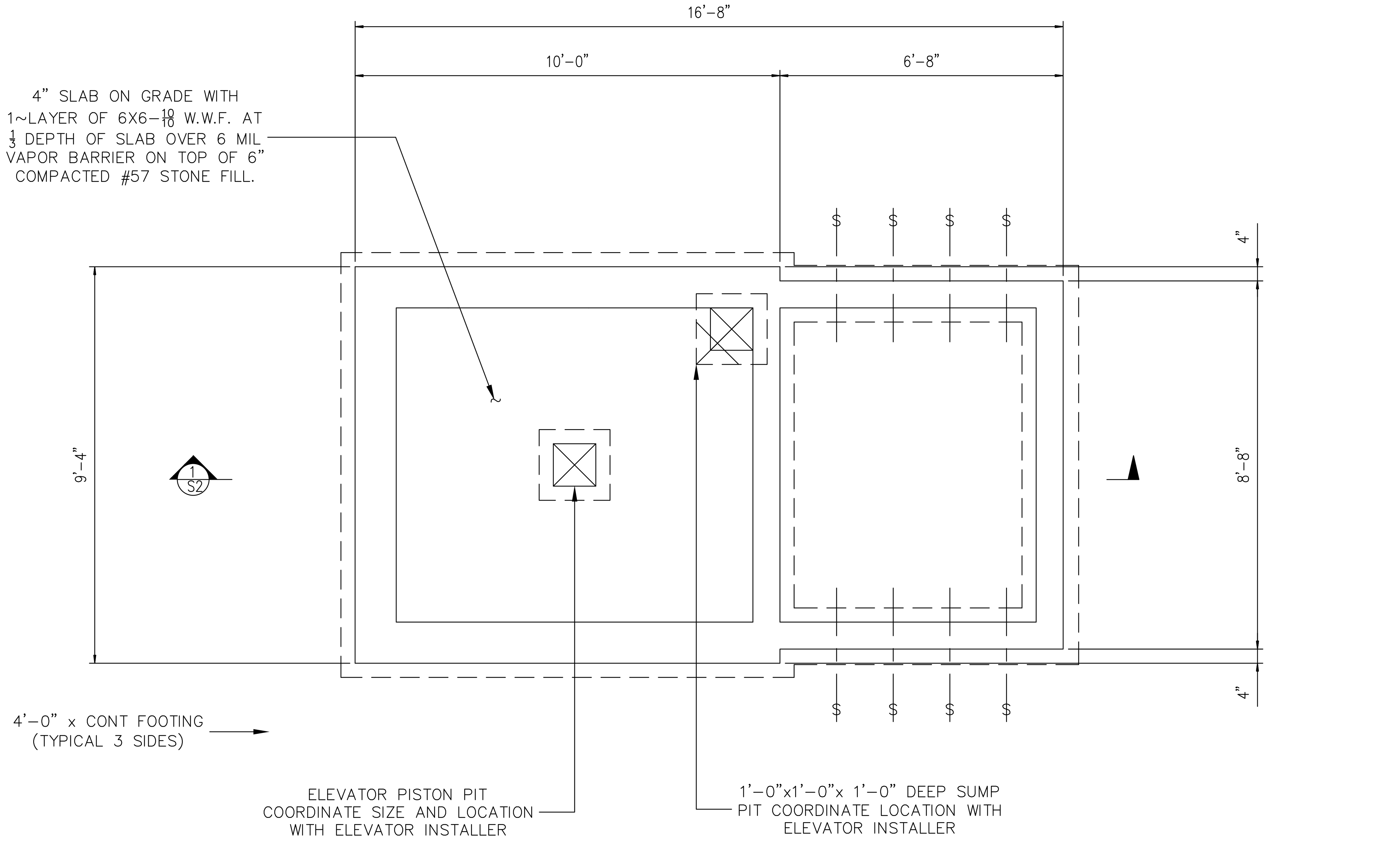
40 STAGECOACH ROAD
RINGGOLD, GA 30736
PHONE: 423-991-1474
EMAIL: COMPANY@ISSIGA.COM

STEVEN R. SANDIFER — REGISTERED PROFESSIONAL ENGINEER — AGRICULTURE — 9/3/21 — STATE OF TENNESSEE

DRAWN:	SS
CHECKED:	MS
JOB No.	
DATE:	9/3/21

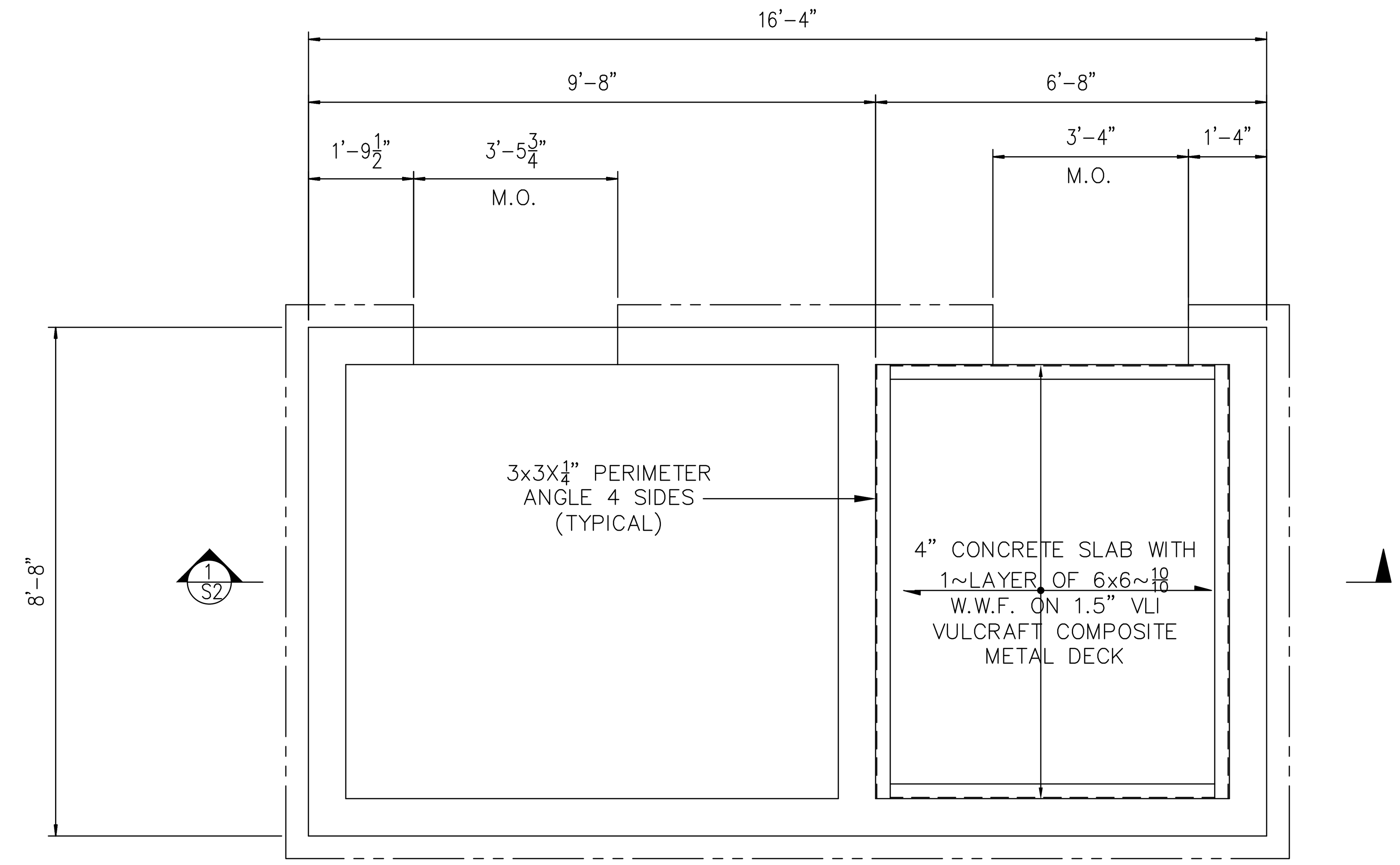
S0.1

GENERAL NOTES

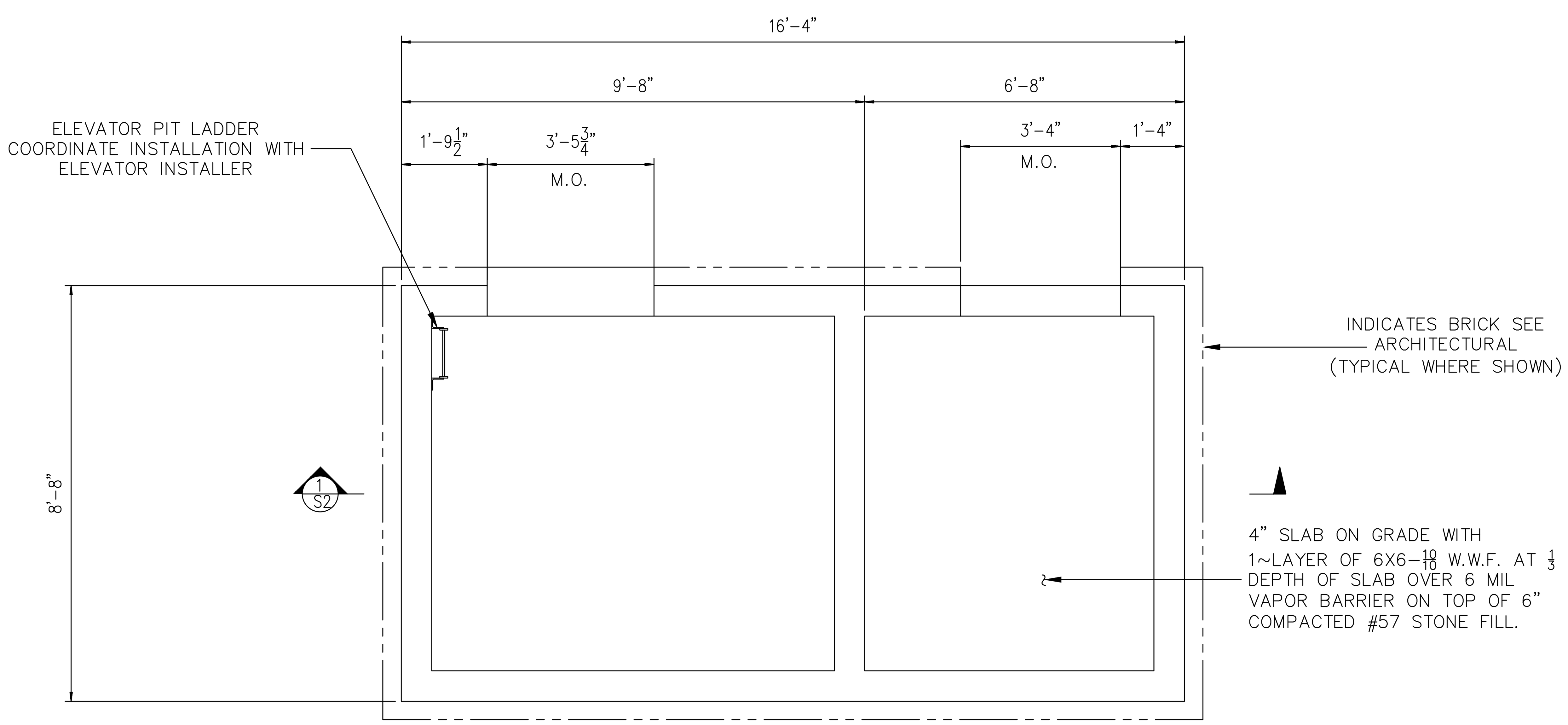


FOUNDATION PLAN
1/2"=1'-0"

NOTES:
1. —S—INDICATES FOOTING STEP (RECOMMENDED). STEPS AS REQUIRED BY CONTRACTOR.

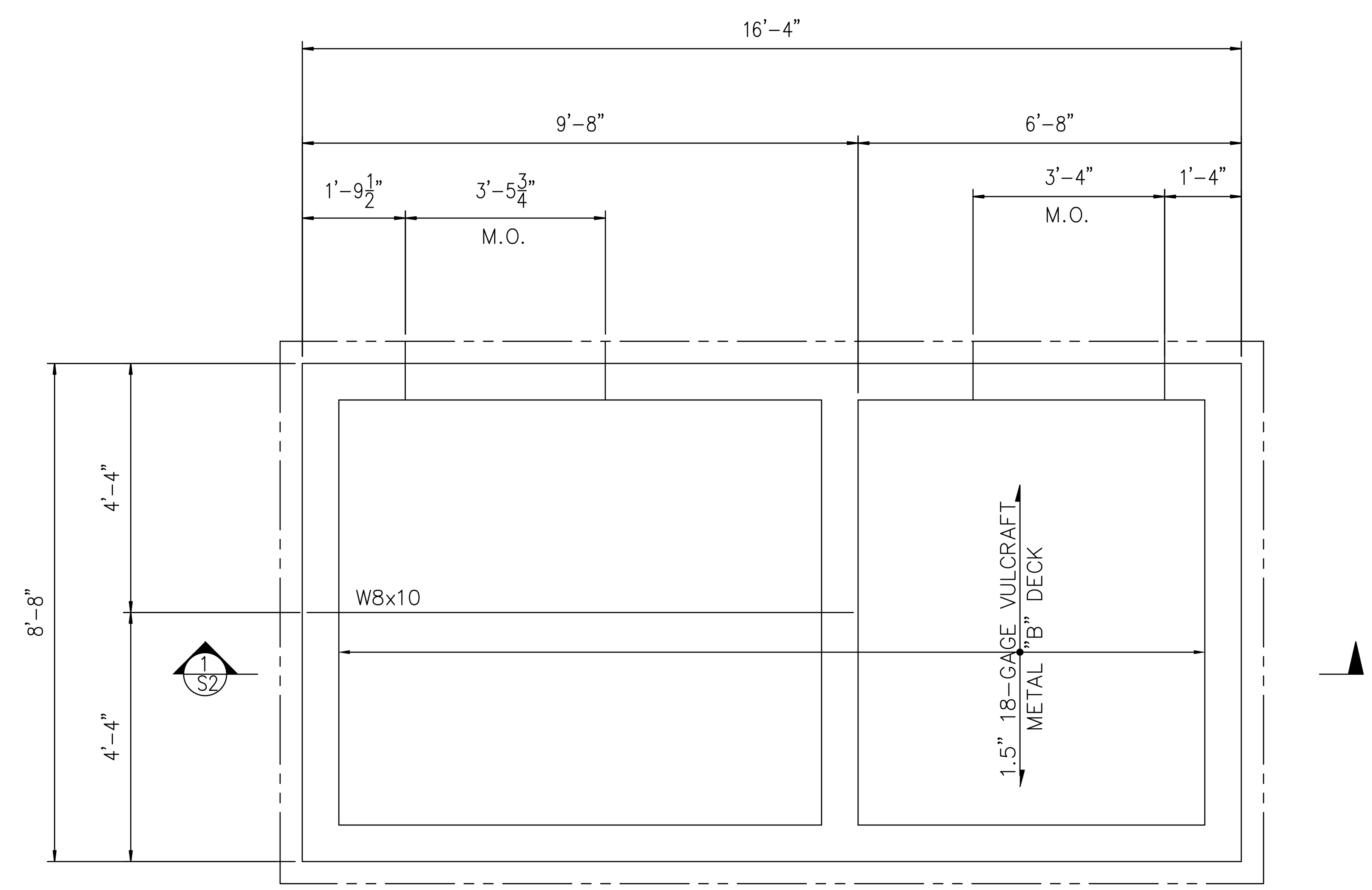


SECOND AND THIRD FLOOR PLAN
1/2"=1'-0"



FIRST FLOOR PLAN
1/2"=1'-0"

NOTES:
1. M.O. INDICATES MASONRY OPENING.



ROOF PLAN
1/2"=1'-0"

INTEGRATED STRUCTURAL SERVICES, INC.
40 STAGECOACH ROAD
RINGGOLD, GA 30736
PHONE: 423-991-1474
EMAIL: COMPANY@ISSIGA.COM

KNOXVILLE INN RENOVATIONS

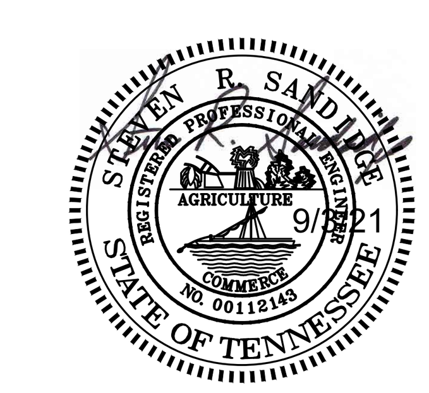
at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)
400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

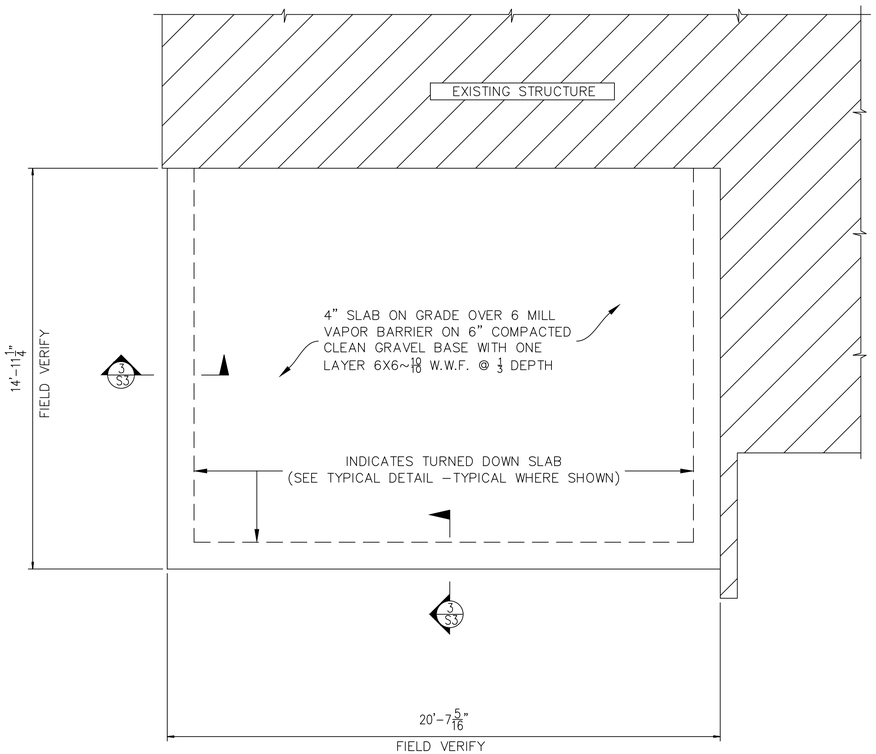
MA&A
March Adams & Associates
Consulting Engineers
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675



DRAWN: SS
CHECKED: MS
JOB No.
DATE: 9/3/21

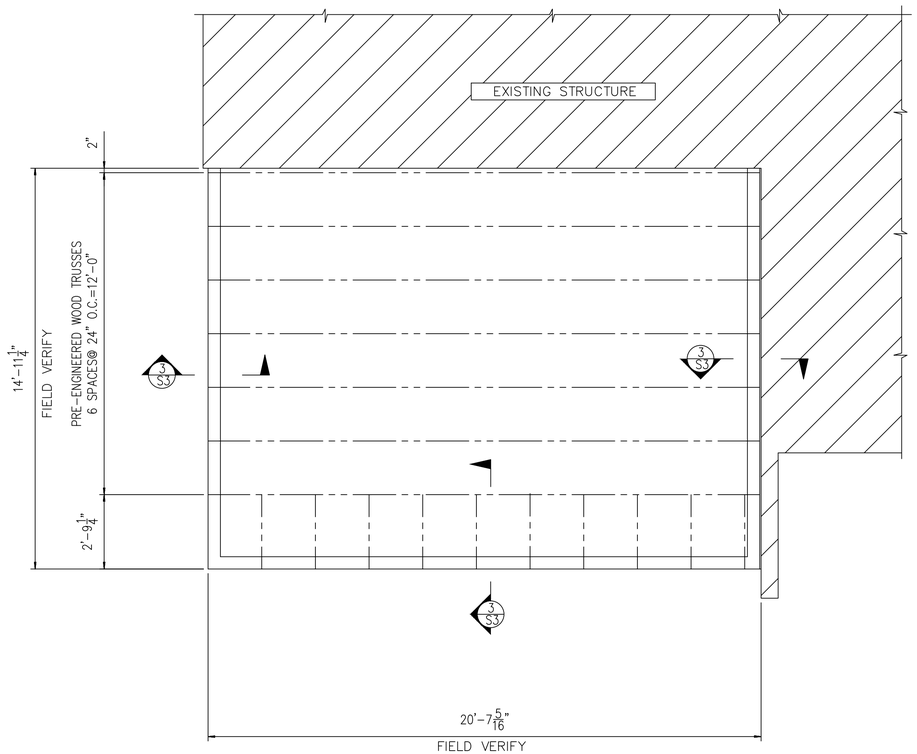
S1

ELEVATOR FOUNDATION AND FLOOR PLANS



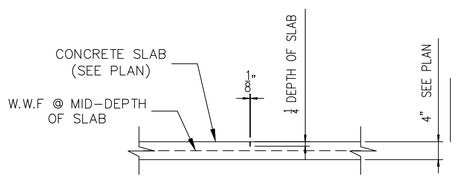
FOUNDATION PLAN

3/32"=1'-0"



ROOF FRAMING PLAN

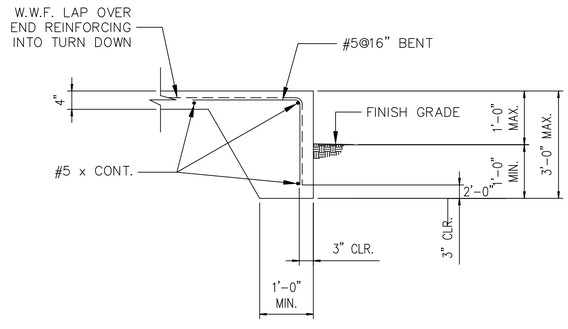
3/32"=1'-0"



SLAB SHALL BE SAWN AS SOON AS THE CONCRETE WILL SAFELY SUPPORT PERSONEL AND MACHNERY.

SAWED CONTROL JOINT

N.T.S.



TYPICAL TURNED DOWN SLAB

N.T.S.

KNOXVILLE INN RENOVATIONS

at

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KNOXVILLE, TN 37917

for

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ATLANTA, GA 30339

March Adams & Associates
Consulting Engineers
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

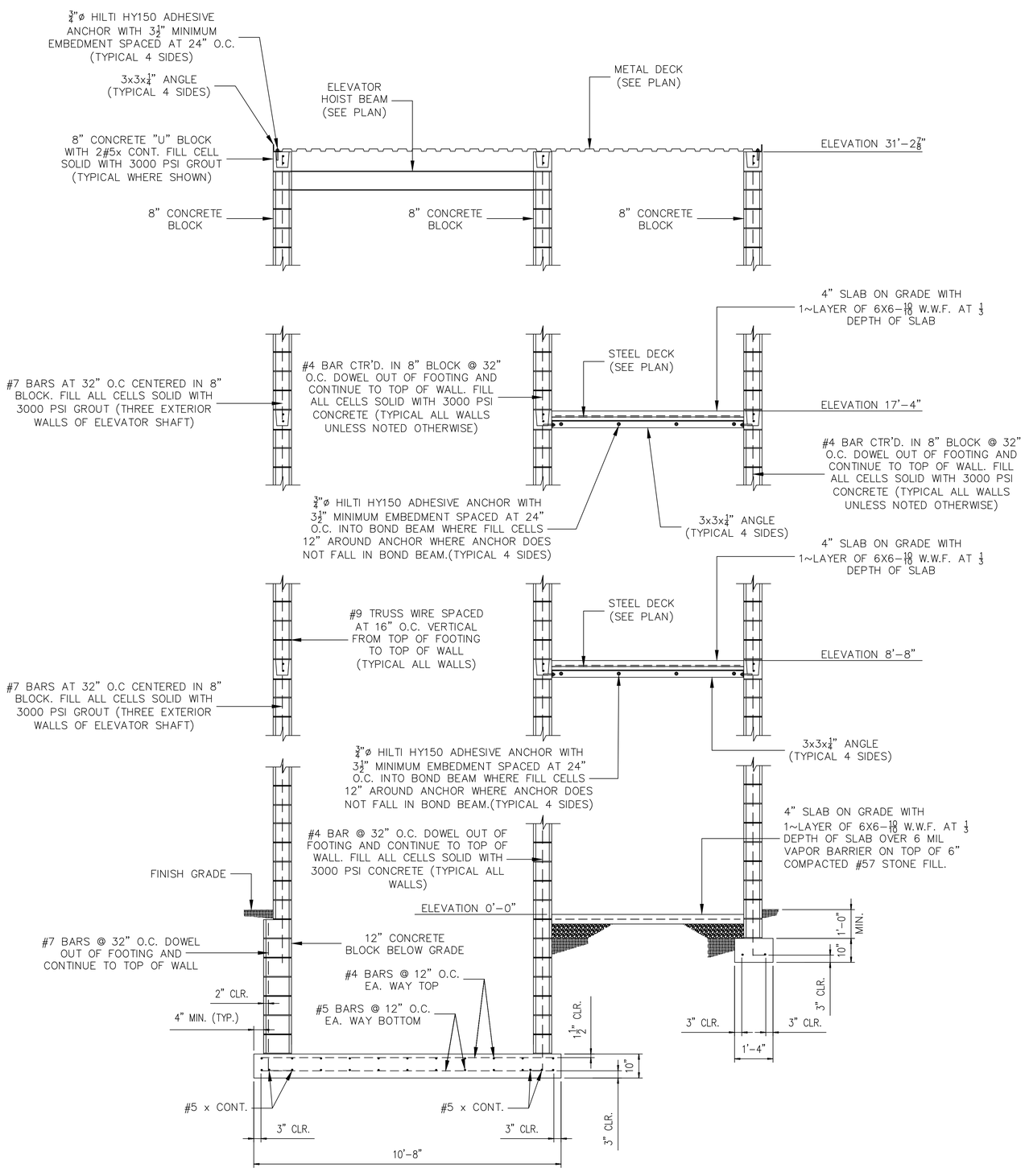
STEVEN P. SANDIFER — REGISTERED PROFESSIONAL ENGINEER — AGRICULTURE — COMMERCE — UTILITIES — 9/3/21 — STATE OF TENNESSEE

DRAWN:	SS
CHECKED:	MS
JOB No.	
DATE:	9/3/21

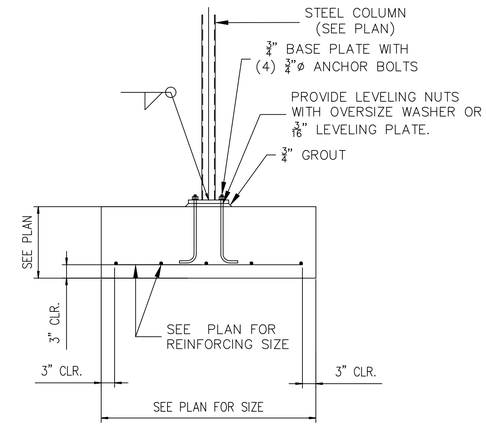
S1.1

STAIR FOUNDATION AND FLOOR PLANS

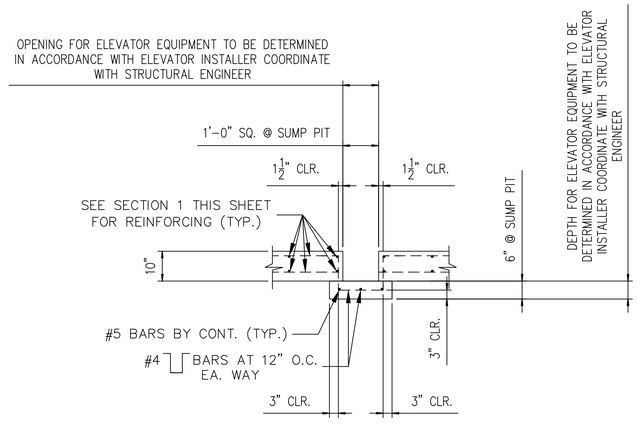
INTEGRATED STRUCTURAL SERVICES, INC.
40 STAGECOACH ROAD
RINGGOLD, GA 30736
PHONE: 423-991-1474
EMAIL: COMPANY@ISSIGA.COM



SECTION 1
1/2"=1'-0"



TYPICAL COLUMN AND FOOTING DETAIL
N.T.S.



TYPICAL SUMP PIT AND ELEVATOR EQUIPMENT PIT DETAIL
NTS

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)
400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

March Adams & Associates
Consulting Engineers
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

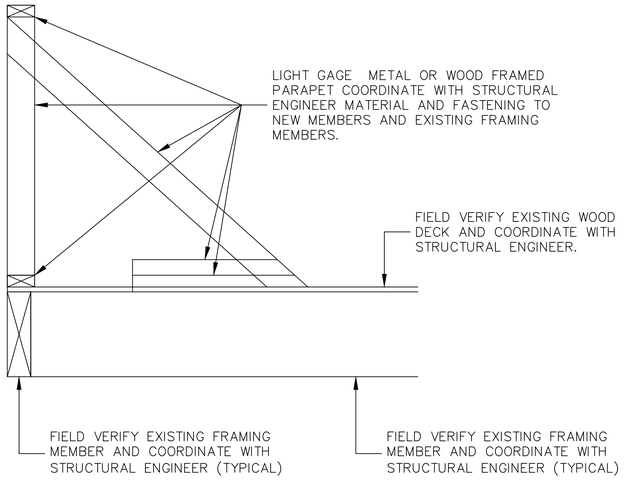
STEVEN B. SANDERS — PROFESSIONAL ENGINEER — AGRICULTURE — COMMERCE — No. 0011478 — 9/3/21 — STATE OF TENNESSEE

INTEGRATED STRUCTURAL SERVICES, INC.
40 STAGECOACH ROAD
RINGGOLD, GA 30736
PHONE: 423-991-1474
EMAIL: COMPANY@ISSIGA.COM

DRAWN: SS
CHECKED: MS
JOB No.
DATE: 9/3/21

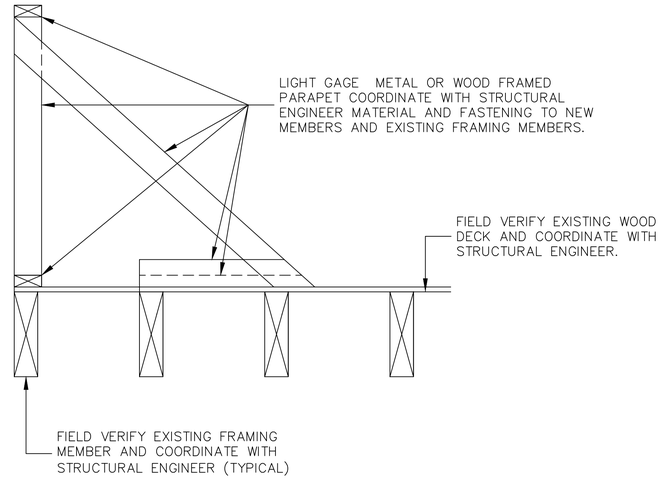
S2

SECTIONS AND DETAILS



TYPICAL PARAPET PARALLEL TO STRUCTURAL FRAMING DETAIL

N.T.S.



TYPICAL PARAPET PERPENDICULAR TO STRUCTURAL FRAMING DETAIL

N.T.S.

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)

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SUITE 1140
ATLANTA, GA 30339

March Adams & Associates
Consulting Engineers

310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

STEVEN P. SANDIFER — REGISTERED PROFESSIONAL ENGINEER — STATE OF TENNESSEE — 9/3/21

DRAWN:	SS
CHECKED:	MS
JOB No.	
DATE:	9/3/21

S3

SECTIONS AND DETAILS

INTEGRATED STRUCTURAL SERVICES, INC.
40 STAGECOACH ROAD
RINGGOLD, GA 30736
PHONE: 423-991-1474
EMAIL: COMPANY@ISSIGA.COM

Rooftop Unit Schedule - Gas Heat

Mark	Manufacturer	Model	Air Flow: Supply Air	Air Flow: Outdoor Air	External Static Pressure	Cooling: Nominal Capacity	Cooling: Net Total	Cooling: Net Sensible	Energy Efficiency Rating	Gas Heating: Stages	Gas Heating: Input	Gas Heating: Output	Gas Heating: Connection Size	Filter	Electrical: Voltage	Electrical: Number of Poles	Electrical: MCA	Electrical: MOCP	Operating Weight	Notes
RTU1	Trane	YSC036G3	1200 CFM	150 CFM	0.75 in-wg	3.0 ton	35,610 Btu/h	28,440 Btu/h	14	2	100,000 Btu/h	81,000 Btu/h	1/2"	Throwaway	208 V	3	20 A	30 A	747 lb	1-6

1

Approved Alternates: Carrier, York

Notes:
1. 7-Day Programmable Thermostat
2. Roof Curb, Coordinate Curb Height w/Roof Insulation Thickness (Minimum 14")
3. Hinged Service Access
4. Condenser Coil Guards
5. Disconnect
6. Powered Convenience Outlet

Approved Alternates: York, Carrier

High-Wall Ductless Split System Schedule

Outdoor Section: Mark	Model	Manufacturer	Nominal Cooling Capacity	Cooling Coil: Total	Cooling Coil: Sensible	Ratings: SEER	Ratings: HSPF	Ratings: COP	Electrical: Voltage	Electrical: Number of Poles	Electrical: MCA	Electrical: MOCP	Operating Weight	Indoor Section: Mark	Model	Air Flow	Operating Weight	Notes
DSO1	PKA-A12HA	Mitsubishi Electric	12,000 Btu/h	12,000 Btu/h	5,800 Btu/h	20.8	12	3.5	208 V	1	11 A	15 A	92 lb	DSI-1	PKA-A12HA7	370 CFM	29 lb	1-5
DSO2	PKA-A12HA	Mitsubishi Electric	12,000 Btu/h	12,000 Btu/h	5,800 Btu/h	20.8	12	3.5	208 V	1	11 A	15 A	92 lb	DSI-2	PKA-A12HA7	370 CFM	29 lb	1-5

Notes:
1. Provide w/Variable Speed Inverter Driven Compressor
2. Provide w/Low Ambient Controls (Side and/or Front Wind Baffle)
3. Provide w/Digital, 7-Day Programmable Thermostat
4. Provide w/Integral Condensate Pump
5. Electrical Shall Provide Conduit Pull String for Low Power Wiring by Mechanical

Approved Alternates: Daikin, Carrier, Mitsubishi, or Equivalent

Package Terminal Heat Pump (PTHP) Schedule

Mark	Manufacturer	Model	Airflow (High)	Outside Air	Capacity: Total Cooling	Capacity: Sensible Cooling	Capacity: Reverse Cycle Heating (24°F)	Rating: EER	Rating: COP	Electric: Electric Heat	Electric: Voltage	Electric: Phase	Electric: MCA	Electric: MOCP	Count	Notes
PTHP1	Amana	PMH073G	340 CFM	35 CFM	7,600 Btu/h	7,600 Btu/h	6,800 Btu/h	11.8	3.3	2.10 kW	208 V	1	14.1 A	15 A	184	1-5
PTHP2	Amana	PMH123G	340 CFM	75 CFM	12,000 Btu/h	12,000 Btu/h	11,500 Btu/h	10.4	3.1	2.10 kW	208 V	1	14.1 A	15 A	2	1-5

Notes:
1. NO SUBSTITUTIONS PERMITTED
2. Provide with manufacturer makeup air fan
3. Provide with manfuacturere architectural louver, color by owner.
4. Provide with "DigiAir" module for continuous dehumidification.
5. Provide with manufacturer thermostat, pull strings by electrical to be wired by mechanical.
6. Provide manufacturer condensate kit

Electric Wall Heater Schedule

Mark	Manufacturer	Model	Watts	BTUs	Voltage	Number of Poles	Operating Weight	Mounting	Control	Notes
EWH1	Markel	HF3325TD-RP	2.25 kW	7,677 Btu/h	208 V	1	29 lb	Surface	Integral T-Stat	1-2

Notes:
1. Provide With Disconnect Switch
2. Recess Mount To Wall

Approved Alternates: QMark, Dayton

Air Terminal Schedule

Mark	Manufacturer	Model	Description	Material	Size	Count
EC1	Seiho	SFB 4	Dryer Vent Cap with Cap Cover w/Flapper Damper	Aluminum	4"ø	5
RG1	Price	80	Ceiling Return Grille	Steel	12"x24"	3
~~SD1~~	~~Price~~	~~SCD~~	~~Rectangular Face Ceiling Supply Diffuser - 24"x24" Face~~	~~Steel~~	~~6"ø~~	~~5~~
SD2	Price	SCD	Rectangular Face Ceiling Supply Diffuser - 24"x24" Face	Steel	8"ø	3

1

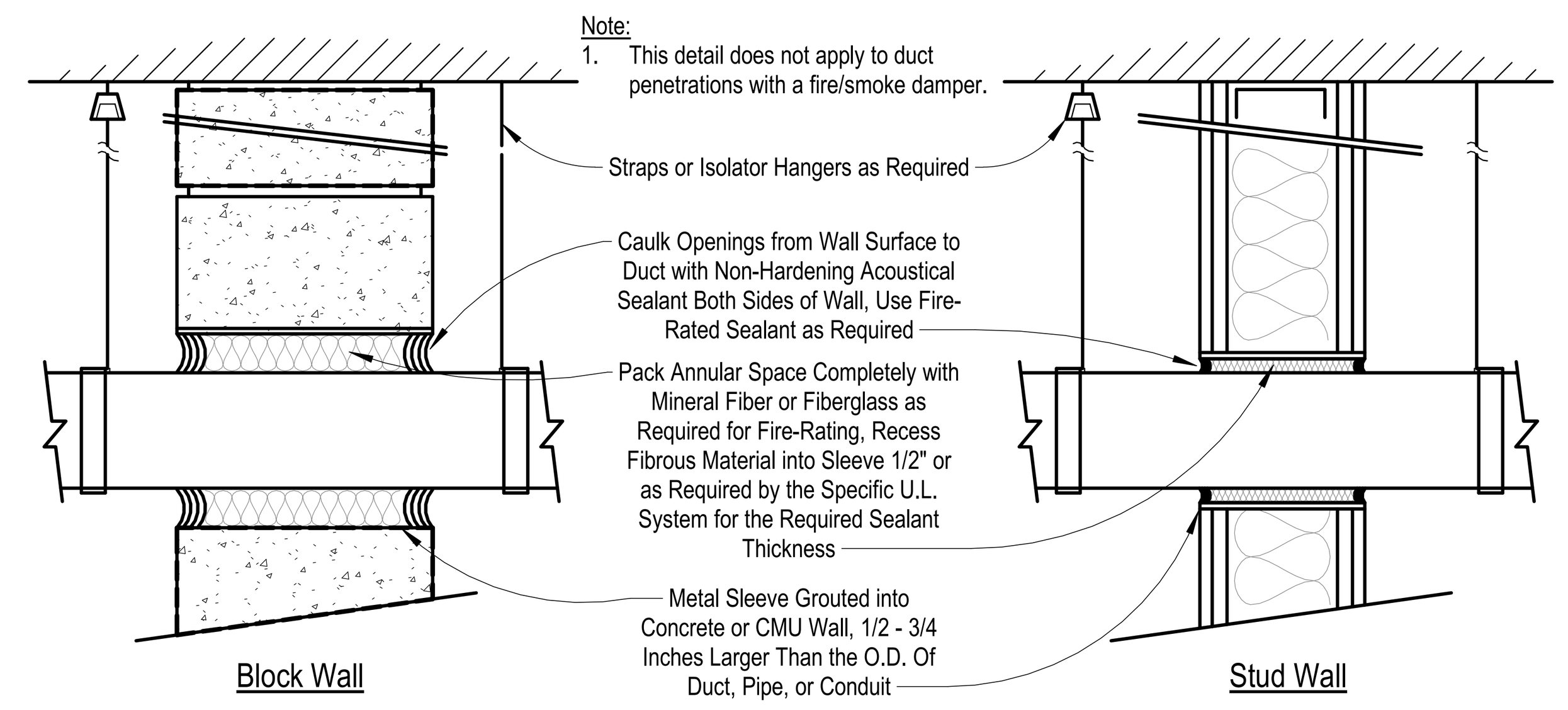
Notes:
1. Noise Criteria Shall Not Exceed 25
2. Contractor Shall Coordinate Border with Ceiling Type (Lay-In Or Gyp.)
3. Refer to Mechanical Floor Plan(s) For CFM
4. Air Devices Are 4-Way Throw (Unless Noted Otherwise on Mechanical Floor Plans)
5. Supply Air Terminals Shall Be Supplied with Opposed Blade Damper
6. Provide Manual Volume Damper at Main Trunk Take-Off For Balancing; Supply and Return
7. Air Terminal Finishes Shall Be Per Architect

Approved Alternates: Metalaire, Titus

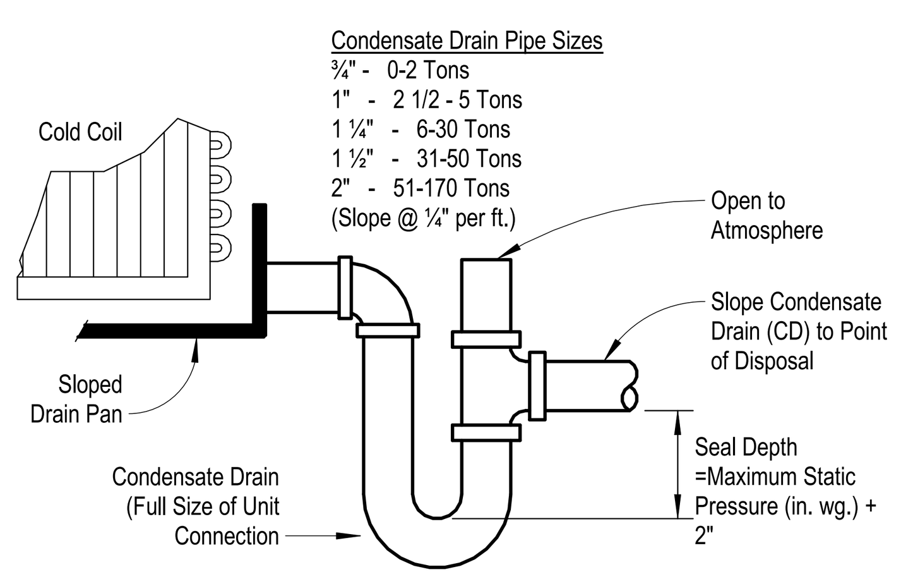
Fan Schedule

Mark	Manufacturer	Model	Description	Air Flow	E.S.P.	Motor RPM	Electrical: Power	Electrical: Volt	Electrical: # Poles	Control	Sones	Weight	Notes
EF1	Air King	BFQ50W	Wall Exhaust Fan	50 CFM	0.10 in-wg	1064	16 W	120 V	1	Light Switch	0.8	5 lb	1-5
EF2	Greenheck	SP-B90	Ceiling Exhaust Fan	70 CFM	0.25 in-wg	692	20 W	115 V	1	Light Switch	1.3	11 lb	6-15

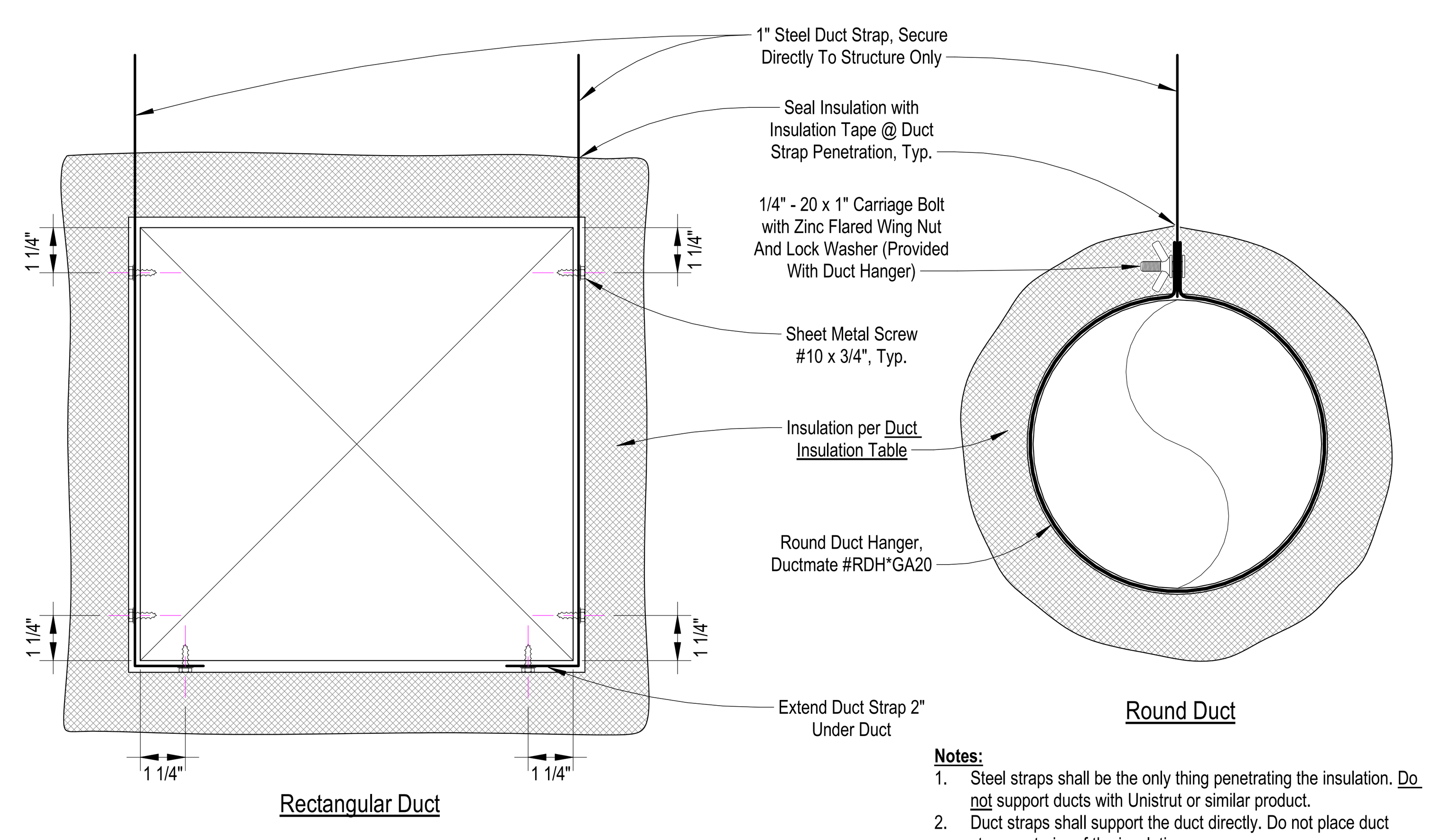
Notes:
1. Provide w/Manufacturer Grille Unless Noted Otherwise by Architect
2. Provide w/One Piece Polymeric Wheel 5 1/8" Diameter, 2 3/8" Wide
3. Provide w/Heavy Duty, Permanently Split Capacitor, Plug-In, 4 Pole Motor, Suitable for Continuous Operation.
4. Provide w/PC/ABS Ploymetric Fan Housing
5. Provide w/Manufacturer Oval Duct Collar
6. Motor with Thermal Overload
7. Motor with CSA Approval
8. Motor with 40 Degree C Ambient Temperature
9. Motor Rated for Continuous Use
10. UL/cUL 507 Listed - Electric Fan
11. Solid State Speed Control, 6 Amp, Shipped Loose
12. Designer Grille
13. Round Duct Connection
14. Polypropylene Wheel Material
15. Energy Star Rated



1 Acoustical Duct Wall Penetration
NTS

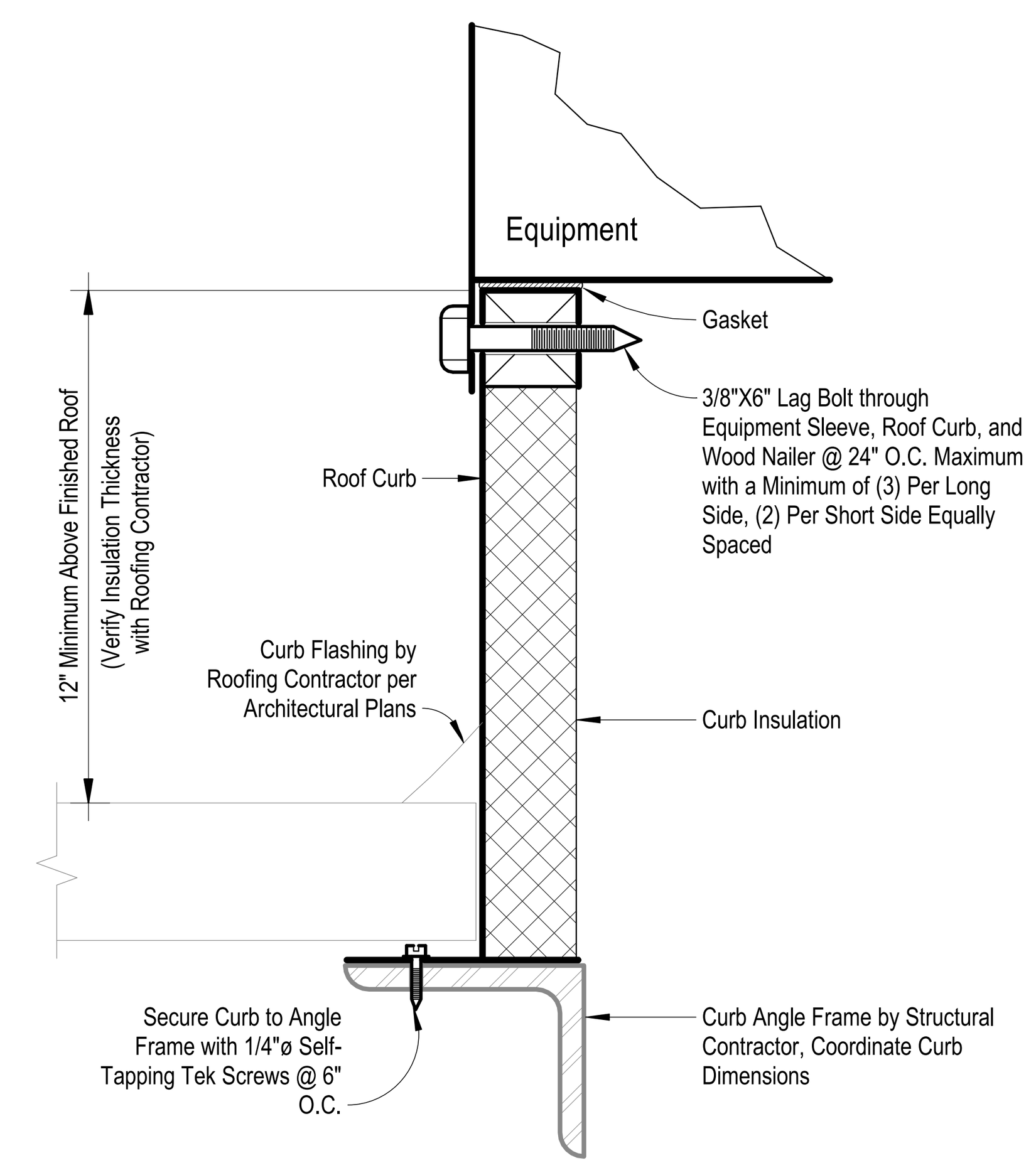


2 Coil Condensate Drain Piping
NTS

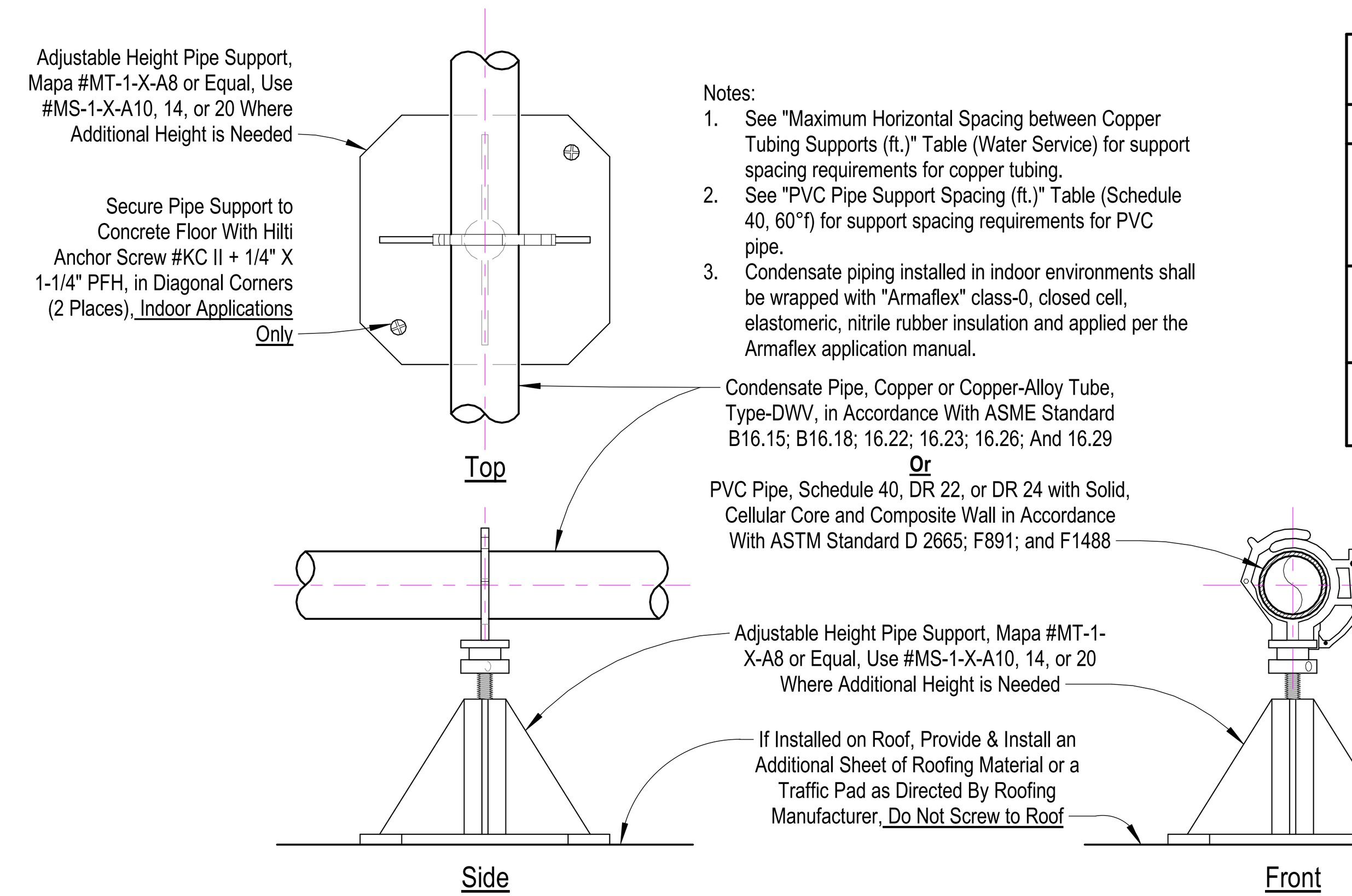


Notes:
1. Steel straps shall be the only thing penetrating the insulation. Do not support ducts with Unistrut or similar product.
2. Duct straps shall support the duct directly. Do not place duct straps exterior of the insulation.
3. Provide duct supports for horizontal ducts within 24 inches of elbows and with 48 inches of branch intersections. Straight lengths of horizontal duct shall be supported a minimum of every 10 ft.

3 Duct Hangers
NTS



4 Roof Equipment Securement
NTS



5 Condensate Piping Support
NTS

Mechanical Symbols

Sections

- SIM — Indicates Similar to Noted View When Present
- 1 — View Number on Sheet
- M301 — Sheet on Which Detail Appears

Air Terminals

- CD1 — Mark (See Air Terminal Schedule)
- 6"ø — Duct Connection Size
- 125 — Air Flow (cfm)
- Supply Air Duct Up | Supply Air Duct Down
- Return / Outdoor Air Duct Up | Return / Outdoor Air Duct Down
- Exhaust Air Duct Up | Exhaust Air Duct Down
- Duct Centerline (Round Duct)
- B — Damper in Ductwork, if Damper is Unlabeled, Assume Balancing Damper, Manual (B)

Damper Types:
- **B** = Balancing Damper, Manual
- **2-P** = 2-Position Damper, Motorized Actuator
- **M** = Full Modulating Damper, Motorized Actuator
- **F** = Fire Damper
- **FS** = Combination Fire / Smoke Damper

- Ceiling Diffuser with Flexible Duct Connection and 4-Way Throw Direction Arrows, if Throw Indication Arrows Are Not Present, Assume 4-Way Throw
- Direction of Air Flow
- Door Undercut (3/4" Unless Otherwise Indincated)
- Mitered Rectangular Duct Elbow with Turning Vanes (Provide Turning Vanes in All Rectangular Supply Ductwork Even if Vanes Are Not Indicated, Turning Vanes Not Required in Return Air, Outdoor Air, And Exhaust Air Ducts Unless Indicated)
- 18"x12" | 18"ø — Rectangular Duct with Dimensions | Round Duct with Dimensions
- T +48" A.F.F. <RTU-*> — Thermostat - Wall Mounted with Unit Designation and Mounting Height to Bottom of Thermostat (Mounting Height 48" A.F.F. Unless Noted Otherwise on Plans)
- T — Thermostat in Lockbox
- CD — Condensate Drain Piping (CD)

Sequences of Operation

Exhaust fans:
Exhaust fans in toilet rooms shall be controlled by light switches.

Heaters:
Wall heaters shall be controlled by built in thermostat.

HVAC: (RTU)
Air conditioning units shall have room thermostat furnished by unit manufacturer and shall control heating and cooling in sequence with automatic switchover as required maintaining room temperature. A fan switch shall allow blower fan to run continuously or cycle.

HVAC: (PTHP)
Room airconditioning units shall have room thermostats furnished by unit manufacturer and shall control heating and cooling in sequence with automatic switchover as required to maintain room temperature. A fan switch shall allow blower fan to run continuously or cycle.

HVAC: (Ductless Split)
Room air conditioning units shall have room thermostats furnished by unit manufacturer and shall control heating and cooling in sequence with automatic switchover as required to maintain room temperature. A fan switch shall allow blower fan to run continuously or cycle.

HVAC Gas Demand Schedule

Mark	Manufacturer	Gas Input
RTU1	Trane	100,000 Btu/h
		100,000 Btu/h

1

Mechanical Project Notes

1. All mechanical work shall be done in accordance with all state and local laws and ordinances and in a manner satisfactory to the authority having jurisdiction. It shall be the responsibility of the Mechanical contractor to obtain all required permits, inspections and pay all applicable fees.
2. The mechanical contractor shall coordinate the routing of ductwork with other trades and ensure there is available space for all involved occupations before fabrication of ductwork begins. Ductwork sizes noted on mechanical plans are net clear inside dimensions.
3. The mechanical contractor shall not pass ductwork, piping, or place mechanical equipment directly over any electrical panels or electrical equipment. Coordinate with the electrical contractor to maintain clearances as required by codes.
4. Fire dampers are required where ductwork penetrates a one or more hour fire resistance rated assembly. [International Mechanical Code section 607 and International Building code 716.5]. Fire dampers may be omitted in 1-hour rated fire partitions where the duct penetrating the wall is not larger than 100 in², the duct does not terminate at a wall register, steel duct material is at least 0.0217 in. thick, and the duct is located above a ceiling [International Building Code 716.5.4 and International Mechanical Code 607.5.3]. Fire dampers are also required where ducts pass through fire rated floor assemblies. Coordinate placement of all fire dampers with rated assemblies indicated on the architectural plans.
5. Coordinate the location of all ceiling mounted air terminals with architectural reflected ceiling plans.
6. The mechanical contractor shall furnish all labor, materials, equipment, services and incidentals required for a complete and operating facility.
7. All mechanical equipment shall be provided complete with electrical starter, protective devices, and interlocks required for complete operable system.
8. Mechanical equipment placement shall allow for full service/maintenance as recommended by the equipment manufacturer.
9. Color and finish of air terminals, louvers, and wall caps shall be coordinated with the architect.
10. The mechanical contractor is responsible for the testing, adjusting and balancing of all air systems.
11. All ductwork shall be connected to mechanical equipment with flexible U.L. listed connectors.
12. Outdoor air intakes shall not be located within 10'-0" of exhaust/relief louvers, wall caps, plumbing vents, or roof caps.
13. Units with air flows above 2,000 cfm must have a duct mounted smoke detector mounted in the supply duct downstream of all filters [2002 NFPA 90a 6.4.2.1]. Smoke detectors are also required in the return air stream prior to any exhausting from the building or mixing with outdoor air unless all portions of the building served by the air distribution system are protected by area smoke detectors connected to a fire alarm system in accordance with the international fire code [International Mechanical Code 606.2.1 and exception]. These smoke detectors must be wired to a fire alarm system when one is provided in a constantly attended location for supervisory signals [International Mechanical Code 606.4.1 and 2002 NFPA 90a 6.4.4]. Local ordinances may have more stringent requirements. Coordinate with electrical contractor. See electrical drawings for locations.
14. Insulating materials shall have a flame spread index not more than 25 and a smoke-developed index not exceeding 450 in accordance with ASTM E 84.
15. The mechanical contractor shall provide access panels in non-lay-in type ceiling (example gypsum ceilings) for all mechanical valves and dampers.
16. Where ductwork is visible through registers and grilles, the mechanical contractor shall prime and paint the interior of the ductwork black.
17. The mechanical contractor shall size refrigerant line sets in accordance with the equipment manufacturer's guidelines.
18. Furnish mechanical as-built drawings as well as Operations & Maintenance manuals for all mechanical systems to the owner within 90 days of system acceptance by the authority having jurisdiction.

HVAC Submittals

The mechanical contractor shall provide the HVAC equipment submittals with an electrical summary sheet for use by the electrical engineer. The sheet shall indicate voltage, phase, MCA, and MOCP for all HVAC equipment submitted. Electrical values that conflict with information provided in the HVAC equipment submittals is sole responsibility of the mechanical contractor.

Design Conditions

Outdoor	
Design Data Location	Knoxville, TN
Heating db (99.6%)	16.4
Cooling db (0.4%)	92.7
Mean Coincident wb (0.4%)	73.6
Weather Station	Knoxville Tyson, TN, USA
Current Energy Code	2012 IECC
Climate Zone	4A
Indoor	
Heating db	70
Cooling db	72
Cooling Relative Humidity	55% (Maximum)

db: Dry Bulb °F
wb: Wet Bulb °F
Note: Outdoor conditions based upon ASHRAE Climatic Design Conditions 2021.

Duct Insulation Schedule

Service	Location	R-Value	Description
Rectangular / Round - Supply, Return, Outside Air	Interior / Concealed	R=6.0 Minimum	External Duct Insulation - Wrap: Owens-Corning Softr Duct Wrap Insulation Type 75, 2.2" Thick, 3/4 lbs/CF Density with Type FRK Facing (or Equal.) First 15 Ft from Mechanical Equipment Shall Have an Internal Acoustical Liner, Certain-Teed (or Equal) "Ultralite" Heavy Graduated Density, 1" Thick. Liner Shall Meet ASTM G21 And G22 for Micro-Biological Treatment.
Diffuser Necks, Boots and Boxes for Grilles and Registers	Interior / Concealed	R=6.8 Minimum	External Duct Insulation - Wrap: Owens-Corning Softr Duct Wrap Insulation Type 75, 2.2" Thick, 3/4 lbs/CF Density with Type FRK Facing (Or Equal)
Flexible Ductwork	Interior / Concealed	R=6.0 Minimum	Insulated Flexible Air Duct with 2", 0.76 lb. Minimum Density Fiberglass Blanket and Fiberglass Scrim Reinforced Aluminized Polyester Film Vapor Barrier

Mechanical Sheet List

1

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

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ATTN: JOHN PATEL (PRES)
400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

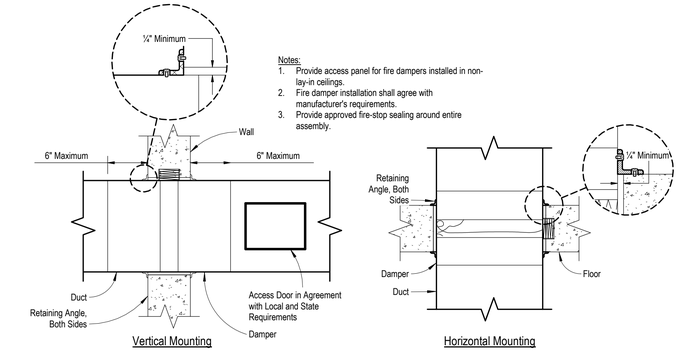
MA&A
March Adams & Associates
Consulting Engineers
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

C. JEFFREY WESTBROOK
REGISTERED PROFESSIONAL ENGINEER
AGRICULTURE
COMMERCE
NO. 110599
STATE OF TENNESSEE
03/25/2022

DRAWN:	TCLJ
CHECKED:	CJW
JOB No.	21205
DATE:	02-18-2022

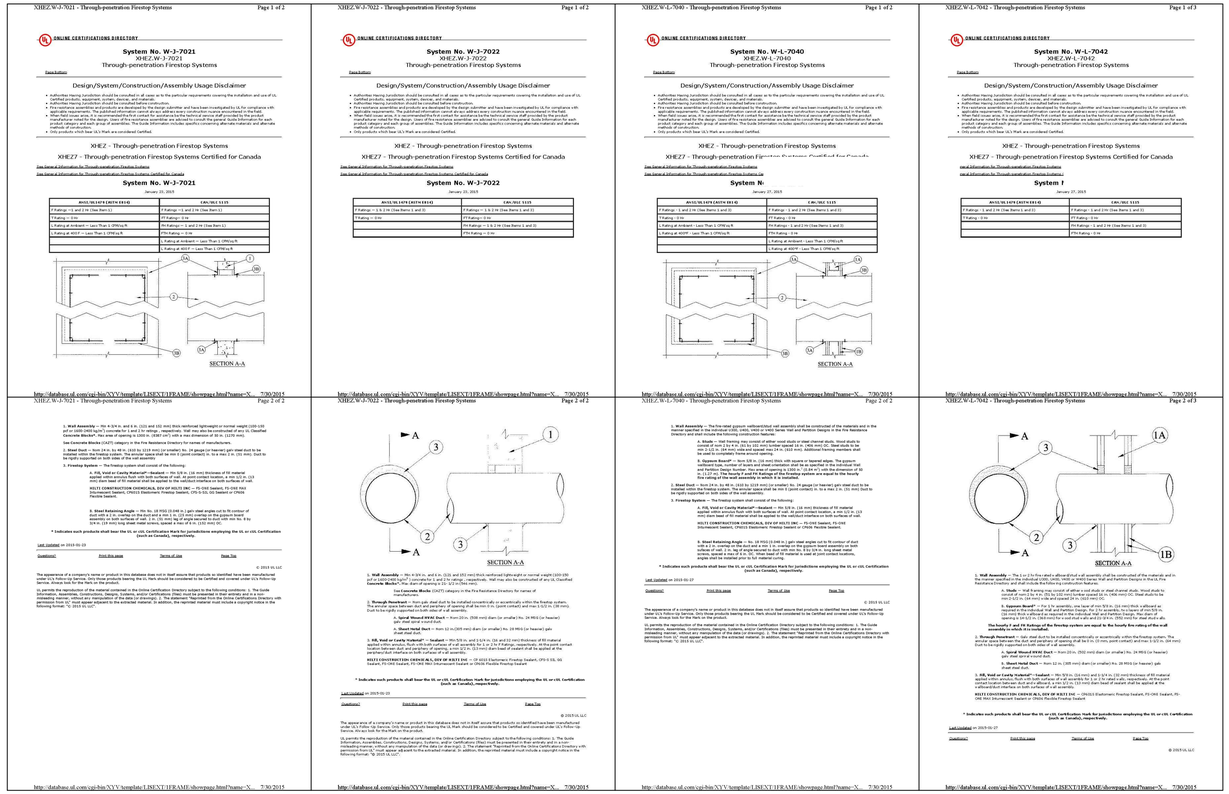
M-0.1

MECHANICAL PROJECT SCHEDULES & NOTES



Notes:
1. Provide access panel for fire dampers installed in non-lay-in ceilings.
2. Fire damper installation shall agree with manufacturer's requirements.
3. Provide approved fire-stop sealing around entire assembly.

② Fire Damper
NTS



XHEZ.W-J-7021 - Through-penetration Firestop Systems Page 1 of 2

ONLINE CERTIFICATIONS DIRECTORY

System No. W-J-7021
XHEZ.W-J-7021
Through-penetration Firestop Systems

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Classified Firestop Systems, Devices, Systems, and/or Certifications.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable criteria for use in fire resistance rated assemblies. Users should not assume use of these systems will result in a fire rated assembly.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer listed in the Online Certifications Directory. The manufacturer can provide information about the scope of the listing, product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate constructions.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

See General Information for Through-penetration Firestop Systems
See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-J-7021

January 15, 2015

ASSA/ULI479 (ASTM E814)	CAN/ULC S115
F Ratings – 1 and 2 Hr (See Item 1)	F Ratings – 1 and 2 Hr (See Item 1)
T Rating – 0 Hr	FT Rating – 0 Hr
L Rating at Ambient – Less Than 1 CFM/sq ft	FH Ratings – 1 and 2 Hr (See Item 1)
L Rating at 400°F – Less Than 1 CFM/sq ft	FTH Rating – 0 Hr
	L Rating at Ambient – Less Than 1 CFM/sq ft
	L Rating at 400°F – Less Than 1 CFM/sq ft

XHEZ.W-J-7021 - Through-penetration Firestop Systems Page 2 of 2

1. **Wall Assembly** — Min 4 3/4 in. and 6 in. (121 and 152 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete for 1 and 2 hr ratings , respectively. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max area of opening is 1000 in. (6387 cm²) with a max dimension of 60 in. (1270 mm).

See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. **Firestop System** — The firestop system shall consist of the following:

A. **Fill, Void or Cavity Material*—Sealant** — Min 5/8 in. (16 mm) thickness of fill material applied within annular space, flush with both surfaces of wall. Min 5/8 in. (16 mm) thickness of fill material shall be applied to the wall/duct interface on both surfaces of wall.

HILTI CORPORATION CHEMICAL, DIV OF HILTI INC — FS-ONE Sealant, FS-ONE Mid Movement Sealant, CP6015 Elastomeric Firestop Sealant, CFS-S SIL GG Sealant or CP606 Flexible Sealant.

B. **Steel Retaining Angle** — Min No. 18 MSG (0.048 in.) galv steel angle cut to fit contour of duit with a 2 in. overlap on the duct and a min 1 in. (25 mm) overlap on the gypsum board perimeter. Secure angle to gypsum board at 6 in. (152 mm) OC with min No. 6 by 5/8 in. (16 mm) long sheet metal screws, spaced a max of 6 in. (152 mm) OC.

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

Last Updated on 2013-01-23

Questions? Print this page Terms of Use Page Top

XHEZ.W-J-7022 - Through-penetration Firestop Systems Page 1 of 2

ONLINE CERTIFICATIONS DIRECTORY

System No. W-J-7022
XHEZ.W-J-7022
Through-penetration Firestop Systems

Design/System/Construction/Assembly Usage Disclaimer

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XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

See General Information for Through-penetration Firestop Systems
See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-J-7022

January 15, 2015

ASSA/ULI479 (ASTM E814)	CAN/ULC S115
F Ratings – 1 & 2 Hr (See Items 1 and 2)	F Ratings – 1 & 2 Hr (See Items 1 and 2)
T Rating – 0 Hr	FT Rating – 0 Hr
	FH Ratings – 1 & 2 Hr (See Items 1 and 2)
	FTH Rating – 0 Hr

XHEZ.W-J-7022 - Through-penetration Firestop Systems Page 2 of 2

1. **Wall Assembly** — Min 4 3/4 in. and 6 in. (121 and 152 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete for 1 and 2 hr ratings , respectively. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max area of opening is 1000 in. (6387 cm²) with a max dimension of 60 in. (1270 mm).

See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. **Through Penetrant** — Item 1 or 2 – Steel pipe, steel duct to be installed concentrically or eccentrically within the firestop system. The annular space between duct and penetrant of opening shall be min 0 in. (point contact) and max 1-1/2 in. (38 mm). Duct to be rigidly supported on both sides of the wall assembly.

A. **Steel Pipe Penetrant-Round Pipe** — Nom 20-in. (508 mm) diam (or smaller) No. 24 MSG (or heavier) galv steel pipe.

B. **Sheet Metal Duct** — Nom 12 in.(305 mm) diam (or smaller) No. 18 MSG (or heavier) galv sheet steel duct.

3. **Fill, Void or Cavity Material* – Sealant** — Min 5/8 in. and 1-1/4 in. (16 and 32 mm) thickness of fill material applied within annular space, flush with both surfaces of wall assembly. Min 1-1/4 in. (32 mm) thickness of fill material shall be applied to the contact location between duct and penetrant, of which 1/2 in. (13 mm) diam bead of sealant shall be applied at the wall/duct interface on both surfaces of all assemblies.

HILTI CORPORATION CHEMICAL, DIV OF HILTI INC — CP 606S Elastomeric Firestop Sealant, CFS-S SIL GG Sealant, FS-ONE Sealant, FS-ONE Mid Movement Sealant or CP606 Flexible Firestop Sealant.

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

Last Updated on 2015-01-23

Questions? Print this page Terms of Use Page Top

XHEZ.W-L-7040 - Through-penetration Firestop Systems Page 1 of 2

ONLINE CERTIFICATIONS DIRECTORY

System No. W-L-7040
XHEZ.W-L-7040
Through-penetration Firestop Systems

Design/System/Construction/Assembly Usage Disclaimer

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- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer listed in the Online Certifications Directory. The manufacturer can provide information about the scope of the listing, product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate constructions.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

See General Information for Through-penetration Firestop Systems
See General Information for Through-penetration Firestop Systems Certified for Canada

System N-

January 27, 2015

ASSA/ULI479 (ASTM E814)	CAN/ULC S115
F Ratings – 1 and 2 Hr (See Items 1 and 2)	F Ratings – 1 and 2 Hr (See Items 1 and 2)
T Rating – 0 Hr	FT Rating – 0 Hr
L Rating at Ambient – Less Than 1 CFM/sq ft	FH Ratings – 1 and 2 Hr (See Items 1 and 2)
L Rating at 400°F – Less Than 1 CFM/sq ft	FTH Rating – 0 Hr
	L Rating at Ambient – Less Than 1 CFM/sq ft
	L Rating at 400°F – Less Than 1 CFM/sq ft

XHEZ.W-L-7040 - Through-penetration Firestop Systems Page 2 of 2

1. **Wall Assembly** — The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U305, U405, V405 or W405 Series Wall and Partition Designs in the Fire Resistance Directory and shall include the following construction features:

A. **Studs** — Wall framing may consist of either steel 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 24 in. (610 mm) OC. Additional framing members shall be used to completely frame around opening.

B. **Gypsum Board*** — Nom 1/2 in. (13 mm) thick with square or tapered edges. The gypsum wallboard type, number of layers and panel orientation shall be as specified in the individual Wall Design. Wallboard shall be installed with the long dimension parallel to studs. Cut pieces shall be as small as practical, but not less than 4 in. (102 mm) wide. **The Gauge Rating of and Fit Ratings of the Firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.**

2. **Steel Deck** — Nom 24 in. by 60 in. (610 by 1219 mm) (or smaller) No. 24 gauge (or heavier) galv steel deck to be the cellular or fluted type. Deck to be supported on all four sides. Deck shall be min 2 inch-(51 mm) thick lightweight concrete poured over the deck. Deck shall be min 2 (51 mm) thick to be rigidly supported on both sides of the wall assembly.

3. **Firestop System** — The firestop system shall consist of the following:

A. **Fill, Void or Cavity Material*—Sealant** — Min 5/8 in. (16 mm) thickness of fill material applied within annular space, flush with both surfaces of wall assembly. Min 5/8 in. (16 mm) thickness of fill material shall be applied to the wall/duct interface on both surfaces of wall.

HILTI CORPORATION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant, FS-ONE Mid-movement Sealant, CP6015 Elastomeric Firestop Sealant or CP606 Flexible Sealant.

B. **Steel Retaining Angle** — No. 18 MSG (0.048 in.) galv steel angle cut to fit contour of duct with a 2 in. overlap on the duct and a min 1 in. (25 mm) overlap on the gypsum board perimeter. Secure angle to gypsum board at 6 in. (152 mm) OC with min No. 6 by 5/8 in. (16 mm) long sheet metal screws, spaced a max of 6 in. (152 mm) OC.

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

Last Updated on 2013-01-23

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XHEZ.W-L-7042 - Through-penetration Firestop Systems Page 1 of 3

ONLINE CERTIFICATIONS DIRECTORY

System No. W-L-7042
XHEZ.W-L-7042
Through-penetration Firestop Systems

Design/System/Construction/Assembly Usage Disclaimer

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- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer listed in the Online Certifications Directory. The manufacturer can provide information about the scope of the listing, product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate constructions.
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XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

See General Information for Through-penetration Firestop Systems
See General Information for Through-penetration Firestop Systems Ce

System f

January 27, 2015

ASSA/ULI479 (ASTM E814)	CAN/ULC S115
F Ratings – 1 and 2 Hr (See Items 1 and 2)	F Ratings – 1 and 2 Hr (See Item 1 and 2)
T Rating – 0 Hr	FT Rating – 0 Hr
	FH Ratings – 1 and 2 Hr (See Items 1 and 2)
	FTH Rating – 0 Hr

XHEZ.W-L-7042 - Through-penetration Firestop Systems Page 2 of 3

1. **Wall Assembly** — The 1-or-2-hr-fire-rated-s allowed-dfrall-s-all assembly shall be constructed of the materials and in the manner specified in the individual U305, U405, V405 or W405 Series Wall and Partition Designs in the Fire Resistance Directory and shall include the following construction features:

A. **Studs** — Wall framing may consist of either steel 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 24 in. (610 mm) OC.

B. **Gypsum Board*** — Nom 5/8 in. (16 mm) thick gypsum board panels, one layer of min 5/8 in. (16 mm) thick wallboard as required in the individual Wall and Partition Design, that shall be installed vertically or horizontally with the long dimension parallel to studs. Wood studs to be nom 2-1/2 in. (64 mm) wide and spaced 24 in. (610 mm) OC.

C. **Gypsum Board*** — For 1-hr assembly, one layer of min 5/8 in. (16 mm) thick wallboard as required in the individual Wall and Partition Design, that shall be installed vertically or horizontally with the long dimension parallel to studs. Wood studs to be nom 2-1/2 in. (64 mm) wide and spaced 24 in. (610 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced 24 in. (610 mm) OC.

The hourly F and TH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.

2. **Through Penetrant** — Item 1 or 2 – Steel pipe, steel duct to be installed concentrically or eccentrically within the firestop system. The annular space between the duct and perimeter of opening shall be 0 in. (0 mm, point contact) and max 1-1/2 in. (38 mm). Duct to be rigidly supported on both sides of the wall assembly.

A. **Steel Round Pipe** — Nom 20-in. (508 mm) diam (or smaller) No. 24 MSG (or heavier) galv steel pipe.

B. **Sheet Metal Duct** — Nom 12 in.(305 mm) diam (or smaller) No. 18 MSG (or heavier) galv sheet steel duct.

3. **Fill, Void or Cavity Material* – Sealant** — Min 5/8 in. and 1-1/4 in. (16 and 32 mm) thickness of fill material applied within annular space, flush with both surfaces of wall assembly for 1-or-2-hr-rated walls, respectively. Min 1-1/4 in. (32 mm) thickness of fill material shall be applied to the contact location between duct and penetrant, of which 1/2 in. (13 mm) diam bead of sealant shall be applied at the wall/duct interface on both surfaces of all assemblies.

HILTI CORPORATION CHEMICALS, DIV OF HILTI INC — CP 606S Elastomeric Firestop Sealant, CFS-S SIL GG Sealant, FS-ONE Sealant, FS-ONE Mid-movement Sealant or CP606 Flexible Firestop Sealant.

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Last Updated on 2015-01-27

Questions? Print this page Terms of Use Page Top

① Firestop Details
6" = 1'-0"

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)

400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

March Adams & Associates
Consulting Engineers

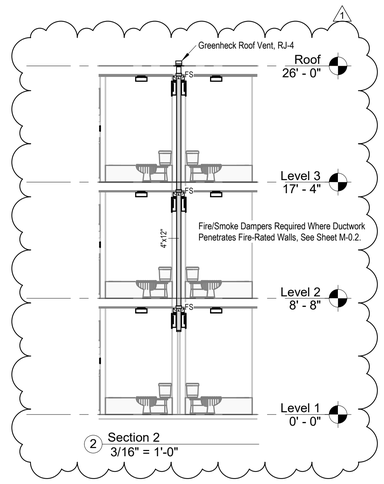
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

JEFFREY WESLEY CHRISTY — REGISTERED PROFESSIONAL ENGINEER — AGRICULTURAL — 115939 — STATE OF TENNESSEE — 03/25/2022

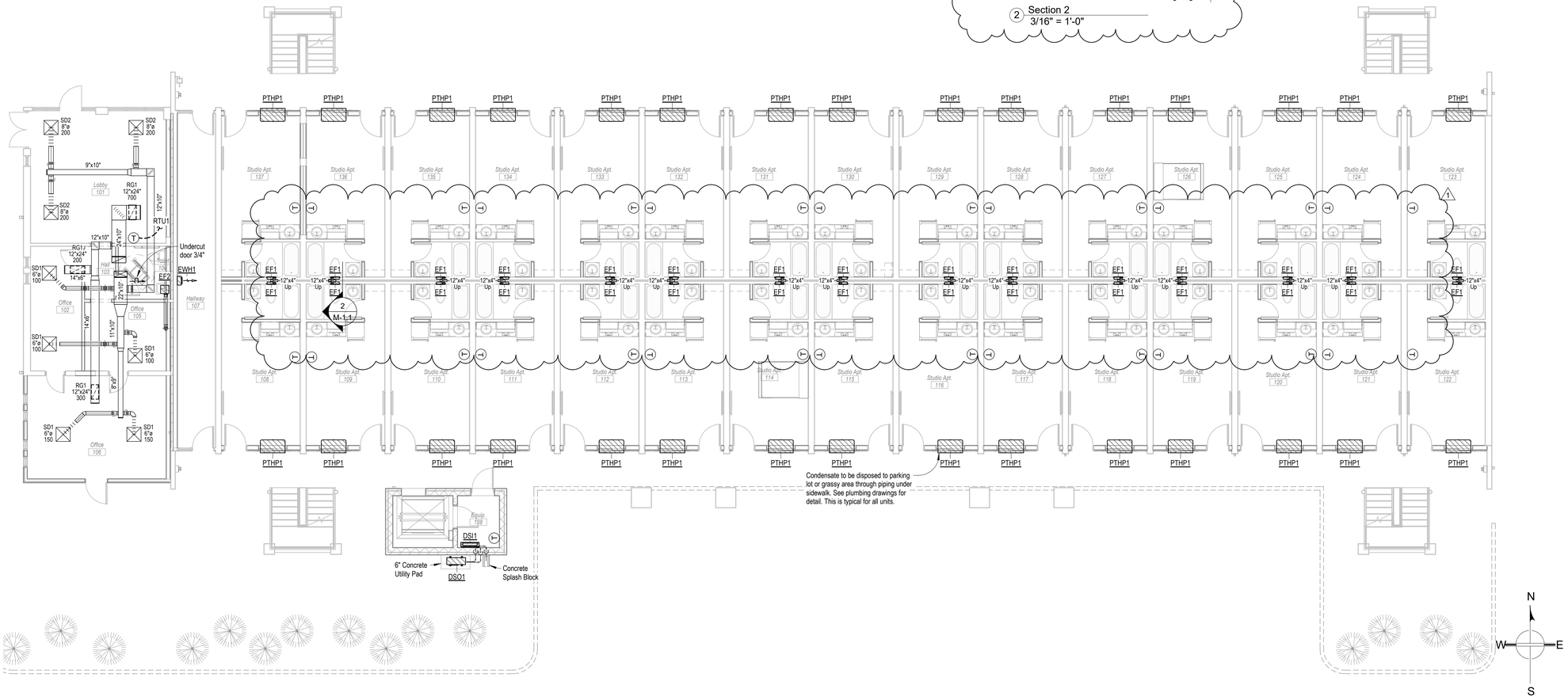
DRAWN:	TCLJ
CHECKED:	CJW
JOB No.	21205
DATE:	02-18-2022

M-0.2

FIRESTOP DETAILS



2 Section 2
3/16" = 1'-0"



1 Level 1 Mechanical Plan - Building A
1/8" = 1'-0"

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)

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ATLANTA, GA 30339

March Adams & Associates
Consulting Engineers

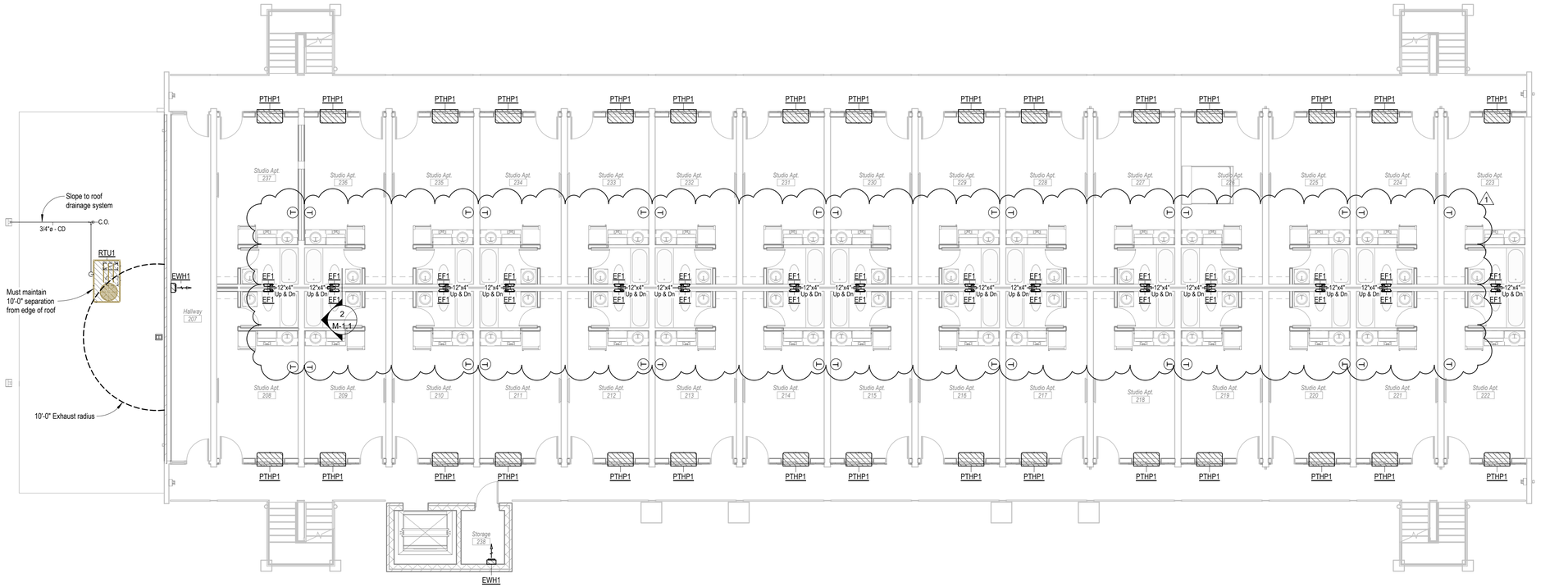
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

JEFFREY WESLEY JOHNSON — PROFESSIONAL ENGINEER — AGRICULTURE — No. 110599 — STATE OF TENNESSEE
03/25/2022

DRAWN:	TCLJ
CHECKED:	CJW
JOB No.	21205
DATE:	02-18-2022

M-1.1

LEVEL 1 MECHANICAL PLAN - BLDG A



1 Level 2 Mechanical Plan - Building A
1/8" = 1'-0"

Revisions		
#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)

400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

March Adams & Associates
Consulting Engineers

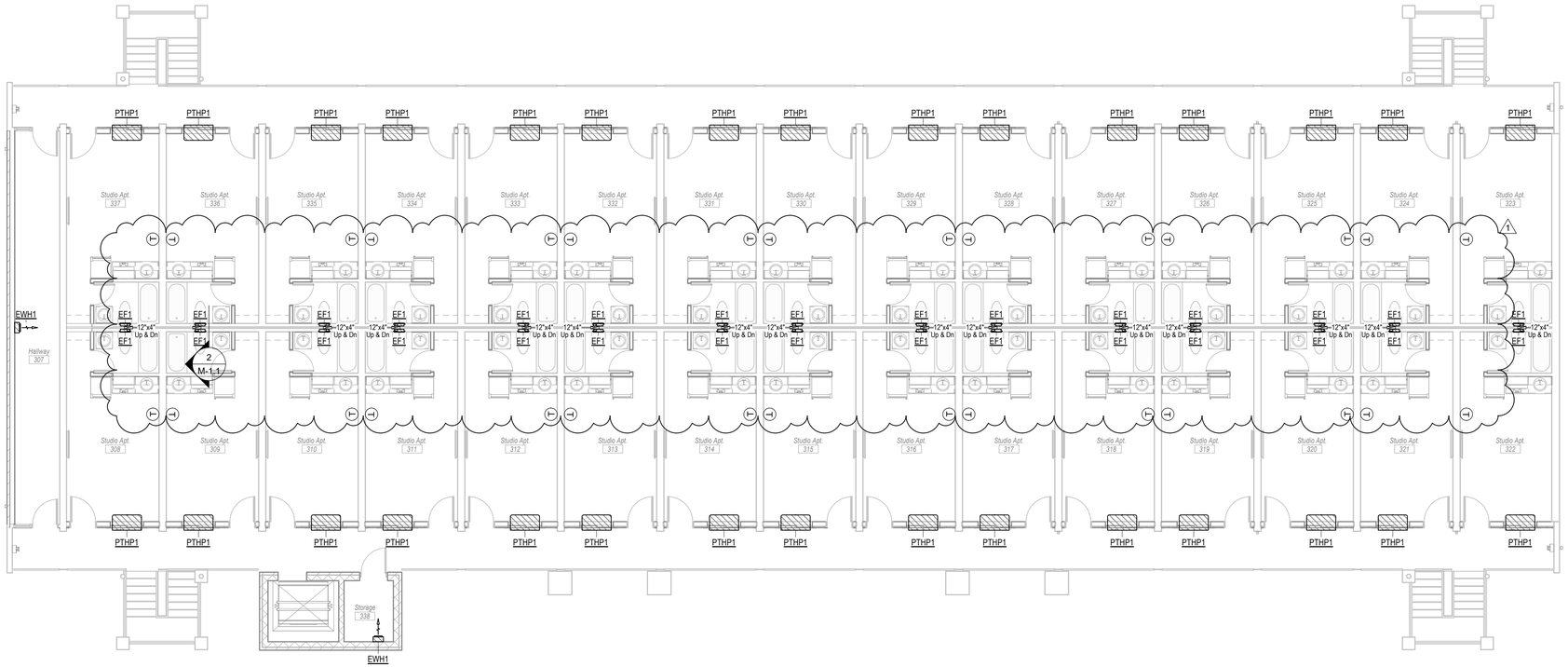
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

CHRISTOPHER JEFFREY WESTBROOK
REGISTERED PROFESSIONAL ENGINEER
AGRICULTURE
SEAL NO. 110539
STATE OF TENNESSEE
03/25/2022

DRAWN:	TCLJ
CHECKED:	CJW
JOB No.	21205
DATE:	02-18-2022

M-1.2

LEVEL 2 MECHANICAL PLAN - BLDG A



N
W E
S

1 Level 3 Mechanical Plan - Building A
1/8" = 1'-0"

Revisions		
#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)
400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

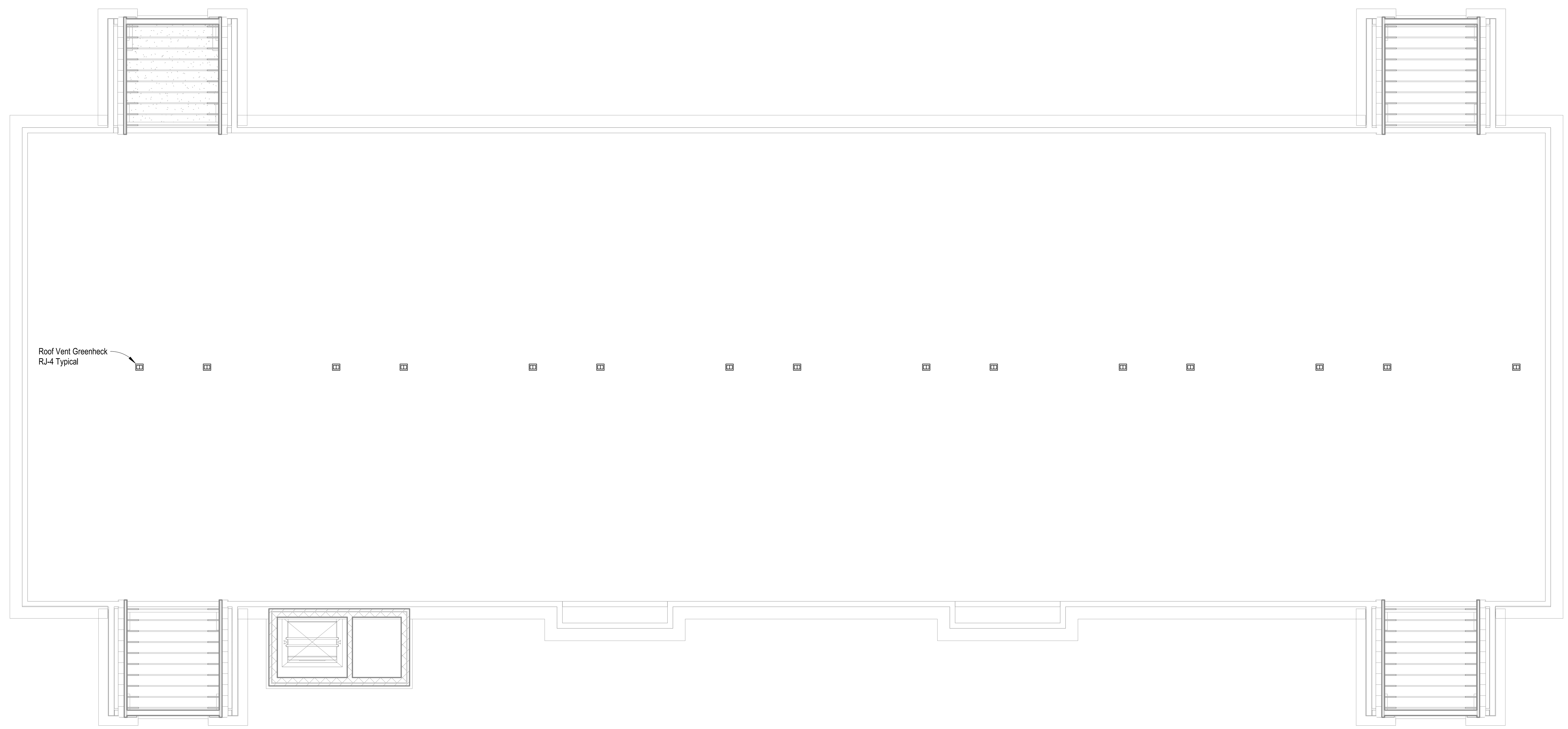
March Adams & Associates
Consulting Engineers
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

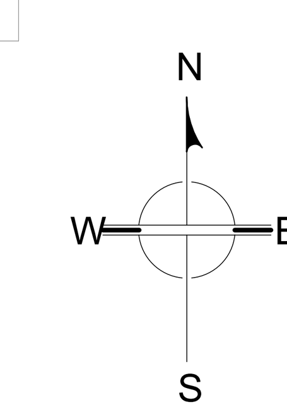
CJW FREY WEST PRICE
REGISTERED PROFESSIONAL ENGINEER
AGRICULTURE
03/25/2022
No. 110599
STATE OF TENNESSEE

DRAWN:	TCLJ
CHECKED:	CJW
JOB No.	21205
DATE:	02-18-2022

M-1.3

LEVEL 3 MECHANICAL PLAN - BLDG A





1 Roof Mechanical Plan - Building A
1/8" = 1'-0"

Revisions		
#	REVISION	DATE

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)

400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

March Adams
& Associates
Consulting Engineers

310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

C. JEFFREY WESTBROOK
STATE OF TENNESSEE
09/03/2021

DRAWN:	HSW
CHECKED:	HSW/CJW
JOB No.	21205
DATE:	09-03-21

M-1.4

ROOF MECHANICAL PLAN - BLDG A

DRAINAGE FIXTURE UNITS BUILDING A

FIXTURE TYPE	FIXTURE UNIT VALUE	NO. OF FIXTURES	TOTAL VALUE
BATHROOM GROUP (FLUSH TANK)	5	90	450
KITCHEN SINK (PRIVATE)	2	90	180
LAVATORY (PRIVATE)	1	1	1
WATER CLOSET (PRIVATE FLUSH TANK)	4	1	4
FLOOR DRAIN	2	1	2

BASED ON 2018 IPC

DRAINAGE FIXTURE UNITS= 577
BUILDING DRAIN PIPE SIZE= 8" (SPLIT INTO 5x 4" LINES)

DRAINAGE FIXTURE UNITS BUILDING B

FIXTURE TYPE	FIXTURE UNIT VALUE	NO. OF FIXTURES	TOTAL VALUE
BATHROOM GROUP (FLUSH TANK)	5	94	470
KITCHEN SINK (PRIVATE)	2	94	188
LAUNDRY TRAY	4	5	20
FLOOR DRAIN	2	3	6

BASED ON 2018 IPC

DRAINAGE FIXTURE UNITS= 684
BUILDING DRAIN PIPE SIZE= 8" (SPLIT INTO 7x 4" LINES)

PIPE SCHEDULE

DWV	SCHEDULE 40 PVC OR CAST IRON
STORM WATER PIPING	SCHEDULE 40 PVC OR CAST IRON
DOMESTIC WATER PIPING	ALL ABOVE AND BELOW GROUND DOMESTIC WATER PIPING SHALL BE TYPE K COPPER PIPE.
NATURAL GAS PIPING	SCHEDULE 40 STEEL

NOTES:
1. THE BASIS OF DESIGN FOR DOMESTIC WATER PIPE IS COPPER PIPE
2. PIPING MUST BE SECURELY ANCHORED TO PREVENT MOVEMENT AND ENSURE NO PIPE IS WITHIN 6" OF ANY HEAT SOURCE; LIKE LIGHT FIXTURES.
3. FINAL CONNECTIONS MUST BE ANCHORED SO STOPS DO NOT MOVE.
4. IF PVC IS USED IN LIEU OF CAST IRON, INSULATION WITH A SOUND TRANSMISSON CLASS (STC) OF 26 OR GREATER MUST BE INSTALLED AROUND PIPING TO PROVIDE EQUIVALENT NOISE REDUCTION.

WATER SUPPLY FIXTURE UNITS BUILDING A

FIXTURE	COLD	HOT	TOTAL	NO. OF FIXTURES	TOTAL VALUE
BATHROOM GROUP (FLUSH TANK)	2.7	1.5	3.6	90	324
ICE MAKER BOX	0.25	0	0.25	90	22.5
KITCHEN SINK (PRIVATE)	1.0	1.0	1.4	90	126
LAVATORY (PRIVATE)	0.5	0.5	0.7	1	0.7
WATER CLOSET (PRIVATE, FLUSH TANK)	2.2	0	2.2	1	2.2

BASED ON 2018 IPC

WATER SUPPLY FIXTURE UNITS= 475.4
DOMESTIC WATER SUPPLY PIPE SIZE= 2-1/2"
GALLONS PER MINUTE= 124 gpm

WATER SUPPLY FIXTURE UNITS BUILDING B

FIXTURE	COLD	HOT	TOTAL	NO. OF FIXTURES	TOTAL VALUE
BATHROOM GROUP (FLUSH TANK)	2.7	1.5	3.6	94	338.4
ICE MAKER BOX	0.25	0	0.25	94	23.5
KITCHEN SINK (PRIVATE)	1.0	1.0	1.4	94	131.6
WASHING MACHINE	3.0	3.0	4.0	5	20

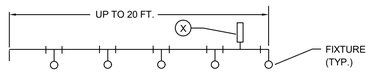
BASED ON 2018 IPC

WATER SUPPLY FIXTURE UNITS= 505.5
DOMESTIC WATER SUPPLY PIPE SIZE= 3"
GALLONS PER MINUTE= 125 gpm

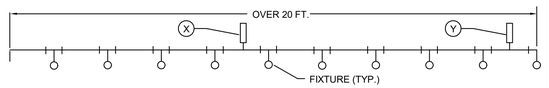
WATER HAMMER ARRESTER SCHEDULE

P.D.I. SYMBOL	MANUFACTURER	MODEL NO.	CONNECTION SIZE	FIXTURE UNIT RATING	REMARKS
"A"	ZURN	Z1700-100	3/4"	1-11	THREADED NIPPLE CONNECTION
"B"	ZURN	Z1700-200	1"	12-32	THREADED NIPPLE CONNECTION
"C"	ZURN	Z1700-300	1"	33-60	THREADED NIPPLE CONNECTION

RULE 1:
THE PREFERRED PLACEMENT LOCATION IS AT THE END OF THE BRANCH LINE BETWEEN THE LAST TWO FIXTURES IN A BRANCH LESS THEN 20 FEET.



RULE 2:
IN LINES THAT EXCEED 20 FT. IN LENGTH. THE SUM OF THE FIXTURE UNIT RATINGS OF UNITS (X) & (Y) SHALL BE EQUAL TO OR GREATER THAN THE DEMAND OF BRANCH.



PLUMBING LEGEND

SYMBOL	DESCRIPTION
	COLD WATER PIPING (CW)
	HOT WATER PIPING (HW)
	HOT WATER RECIRCULATED PIPING (HWR)
	SOIL/WASTE PIPING
	VENT PIPING (V)
SD	STORM DRAIN PIPING (SD)
G	GAS PIPING (G)
	PIPE RISE
	PIPE DROP
	CONCENTRIC TRANSITION
	SHUT-OFF VALVE
	SOLENOID ACTUATED VALVE
	CHECK VALVE
	DIELECTRIC UNION
	GAS COCK
GM	GAS METER
	CONNECTION TO CIVIL

GAS DEMAND SCHEDULE BUILDING A

TAG	DESCRIPTION	BTU DEMAND
WH1	WATER HEATER	750,000
RTU-1	MAKE UP AIR UNIT	100,000

BASED ON 2 psig 100 feet developed length

TOTAL BTU DEMAND= 850,000
NATURAL GAS PIPE SIZE= 1"

GAS DEMAND SCHEDULE BUILDING B

TAG	DESCRIPTION	BTU DEMAND
WH1	WATER HEATER	750,000

BASED ON 2 psig 250 feet developed length

TOTAL BTU DEMAND= 750,000
NATURAL GAS PIPE SIZE= 1"

1

PLUMBING FIXTURE SCHEDULE

MARK	MANUFACTURER	MODEL	DESCRIPTION
FD1	ZURN	Z415-6B	6" ZURN FLOOR DRAIN WITH "TYPE B" ROUND STRAINER.
IMB	IPS CORPORATION	MIB1AB	ICE MAKER BOX SYSTEM WITH QUARTER TURN ARRESTER VALVE AND 1/2" SWEAT CONNECTION
L1			PROVIDED BY OWNER
S1			PROVIDED BY OWNER
SH1			PROVIDED BY OWNER
T1			PROVIDED BY OWNER
W1			PROVIDED BY OWNER
WMB	IPS Corporation	MWB26	1/2" 1/4 Turn Sweat Valve Top Mount Installed w/Hammer Arresters, 2" Slipnut Drain Kit
YCO	ZURN	Z1400	"LEVEL-TROL" ADJUSTABLE FLOOR CLEANOUT, DURA-COATED CAST IRON BODY WITH GAS AND WATERTIGHT ABS TAPERED THREAD PLUG AND ROUND SCORIATED CAST IRON EXTRA-HEAVY-DUTY SECURED TOP ADJUSTABLE TO FINISHED FLOOR.

WATER HEATER SCHEDULE

MARK	MANUFACTURER	MODEL	DESCRIPTION
P1	GRUNDFOS	UPS26-99 SFC	GRUNDFOS UPS26-99 SFC 2 GPM 28' HEAD, STAINLESS STEEL, 1/6TH HP, USE BRONZE DIELECTRIC ISOLATION BALL VALVE SET ON INLET AND OUTLET
P2	LIBERTY PUMPS	ELV280	LIBERTY ELV280, 1/2 HP ELEVATOR SUMP PUMP SYSTEM
WH1	INTELLIHOT	iQ251	INTELLIHOT GAS CONDENSING TANKLESS DIRECT VENT WATER HEATER. MAX. BTU: 250,000. EFF: 96%. BUFFER TANK & RECIRC PUMP. MIN. FLOW: 0.6 GPM. PROVIDE CONDENSATE NEUTRALIZATION.

PIPE INSULATION

SERVICE	MATERIAL	THICKNESS	FIELD APPLIED JACKET	VAPOR RETARDER REQUIRED	FINISH
DOMESTIC COLD WATER	OWENS-CORNING "ONE PIECE" FIBERGLASS PIPE INSULATION WITH ASJ JACKET WITH SELF-SEALING LAP.	1/2" FOR PIPE 1 1/2" OR SMALLER* 1" FOR PIPE LARGER THAN 1 1/2" *	NONE	NONE	NONE
DOMESTIC HOT WATER OPERATING TEMPERATURE: 60 TO 140 DEG. F	OWENS-CORNING "ONE PIECE" FIBERGLASS PIPE INSULATION WITH ASJ JACKET WITH SELF-SEALING LAP.	1" FOR PIPE 1 1/2" OR SMALLER* 1 1/2" FOR PIPE LARGER THAN 1 1/2" *	NONE	YES (FOSTER 30-35)	NONE
SANITARY PIPE, EXCLUDING CAST IRON.	OWENS-CORNING "ONE PIECE" FIBERGLASS PIPE INSULATION WITH ASJ JACKET WITH SELF-SEALING LAP.	1" *	NONE	YES (FOSTER 30-35)	NONE
EXPOSED SANITARY DRAINS AND DOMESTIC WATER SUPPLIES AND STOPS FOR FIXTURES FOR THE DISABLED	"LAV-GUARD" AS MANUFACTURED BY TRUBRO.		PVC P-TRAP AND SUPPLY COVERS	YES	WHITE

PLUMBING GENERAL NOTES:

1. THESE DRAWINGS HAVE BEEN DEVELOPED FROM THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY ALL FIELD CONDITIONS, DIMENSIONS, CLEARANCES, LOCATION OF EXISTING UTILITIES, ETC. PRIOR TO BIDDING, FABRICATION, OR INSTALLATION. DO NOT SCALE FROM THESE DRAWINGS. COORDINATE ALL STUB-UPS AND CONNECTIONS WITH MANUFACTURER INSTALLATION DATA.

2. COORDINATE PLUMBING INSTALLATION AMONG TRADES TO AVOID INTERFERENCES.

3. ALL COLD, HOT AND RECIRCULATING WATER PIPING SHALL BE INSULATED W/CLOSED CELL INSULATION. INSULATE ALL ABOVE GROUND DOMESTIC WATER PER SPECIFICATIONS SECTION 15090.

4. THE CONTRACTOR SHALL FURNISH ALL LABOR, INSTALL ALL MATERIAL AND EQUIPMENT AND INCLUDE SERVICES AND INCIDENTALS TO THE INSTALLATION OF WORK INVOLVED FOR A COMPLETE AND OPERATING FACILITY.

5. CONTRACTOR SHALL BE RESPONSIBLE FOR ASSEMBLING ANY EQUIPMENT SHIPPED IN SECTIONS, IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS, INSPECTIONS, AND PAY ALL FEES REQUIRED FOR THIS JOB.

7. THE PIPING SYSTEM SHALL BE ARRANGED SO AS TO PREVENT WATER HAMMER. EACH ISOLATED FIXTURE SHALL HAVE A WATER HAMMER ARRESTOR ON THE WATER CONNECTION. ALL GROUPS OF FIXTURES SHALL CONNECT TO A WATER BRANCH WHICH SHALL END WITH A FULL SIZE WATER HAMMER ARRESTOR.

8. THE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL STANDARD 1/2"x3/8" COMPRESSION ANGLE STOPS ON ALL WATER LINES UNLESS ANOTHER TYPE OF VALVE IS SPECIFIED.

9. ALL WASTE PIPING ABOVE GRADE SHALL BE APPROVED CAST IRON OR PVC SOIL PIPE, AND ALL VENT PIPING ABOVE GRADE SHALL BE "PVC" OR "ABS". CAST IRON ONLY IN PLENUM RETURN SPACES.

10. ALL VENTS THROUGH ROOF (VTR) SHALL EXTEND A MINIMUM OF 12" ABOVE ROOF AND BE MAINTAINED A MINIMUM OF 10'-0" FROM ALL OUTSIDE AIR INTAKES, EXCEPT 20' FROM 100% MAU INTAKES.

11. ALL ROOF PENETRATIONS FOR PLUMBING PIPING SHALL BE MADE IN ACCORDANCE WITH ROOF SYSTEM MANUFACTURER GUIDELINES. COORDINATE WITH ARCHITECTURAL.

12. COPPER PIPING JOINTS SHALL BE SOLDERED USING SOLDER FILLER METAL (ASTM B-32) 95-5 TIN ANTIMONY.

13. ALL PENETRATIONS THROUGH MASONRY WALLS WILL BE CORE DRILLED AND SLEEVED.
(A) SLEEVES ARE REQUIRED WHERE A PIPE PASSES THROUGH A WALL OR FLOOR. PIPES PASSING THROUGH A WALL OR FLOOR MUST BE INDIVIDUALLY SLEEVED UNLESS APPROVED BY ARCHITECT.
(B) SLEEVES SHALL FINISH FLUSH WITH THE WALL FINISH AND SHALL FINISH 1/4" ABOVE FINISH FLOOR.
(C) SLEEVES SHALL BE AS FOLLOWS:
· THROUGH MASONRY WALLS - GALVANIZED STEEL PIPE.
· THROUGH PARTITIONS AND FLOOR - 22 GAUGE GALVANIZED SHEET METAL.

14. ALL FLOOR DRAINS, FLOOR SINKS, AND HUB DRAINS SHALL BE INSTALLED WITH A TRAP PRIMER CONNECTION AND PROVIDED WITH A TRAP PRIMER, TO BE "PRECISION PLUMBING PRODUCTS" (PRIMERITE PR-500) OR EQUIVALENT. USE DISTRIBUTION BLOCKS AS REQUIRED. TRAP PRIMERS SHALL BE LOCATED AS TO FACILITATE EASE OF MAINTENANCE AND CONCEALED FROM DIRECT VIEW.

15. GAS SERVICE CONNECTION LOCATION(S) SHOWN ON ENGINEERING DRAWINGS IS BASED ON THE BEST INFORMATION AVAILABLE FROM THE CIVIL ENGINEER. GAS CONTRACTOR IS TO CONFIRM THE GAS SERVICE CONNECTION LOCATION(S) WITH THE GAS COMPANY PROVIDING SERVICE, PRIOR TO CONSTRUCTION. GAS CONTRACTOR SHALL COORDINATE THE GAS PIPING SERVICE LOCATION WITH THE SITE CONTRACTOR.

16. PORTIONS OF FUEL GAS PIPING INSTALLED IN CONCEALED LOCATIONS SHALL NOT HAVE UNIONS, TUBING FITTINGS, RIGHT AND LEFT COUPLINGS, BUSHINGS, COMPRESSION COUPLINGS AND SWING JOINTS MADE BY COMBINATIONS OF FITTINGS OR OTHERWISE THE FUEL GAS PIPING MUST BE SLEEVED AND THE SLEEVE MUST VENT TO ATMOSPHERE. VENTING OF THE SLEEVE SHALL BE ACCOMPLISHED AS TO PREVENT THE ENTRANCE OF WATER OR INSECTS.

17. ALL GAS PIPING INSTALLED OUTDOORS SHALL BE ELEVATED NOT LESS THAN 3 1/2" ABOVE GROUND AND WHERE INSTALLED ACROSS ROOF SURFACES, SHALL BE ELEVATED NOT LESS THAN 31/2" ABOVE THE ROOF SURFACE.

18. ALL HOT AND COLD WATER PIPING DROPPING OR RISING TO SERVE PLUMBING FIXTURES SHALL BE SUPPLIED WITH SHOCK STOPS TO PREVENT WATER HAMMER IN PIPING.

19. EQUIPMENT AND APPLIANCES NOT HAVING AIR GAP SHALL BE PROTECTED WITH AN APPROVED BACKFLOW PREVENTOR.

20. PROVIDE ALL TUBS AND SHOWER VALVES WITH PRESSURE BALANCE MIXING VALVES. SEE SPECIFICATIONS.

21. PLUMBING CONTRACTOR SHALL PROVIDE VENTILATION FOR EXHAUST AND COMBUSTION FOR WATER HEATERS. PROVIDE DIRECT VENT SYSTEM AS DESCRIBED IN MANUFACTURER'S PUBLISHED INSTRUCTIONS.

Revisions

#	REVISION	DATE
1	ADD #1 CITY REVIEW COMMENTS	3/25/22

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)
400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

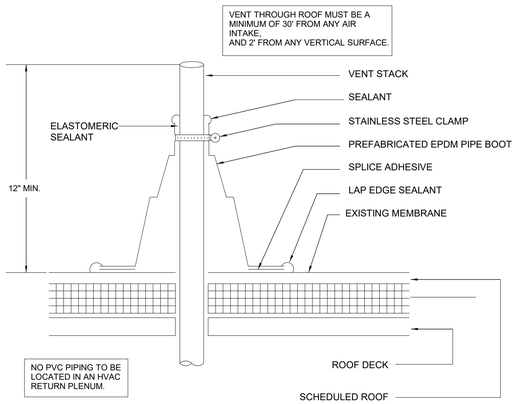
March Adams & Associates
Consulting Engineers
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

C. JEFFREY WESTBROOK
REGISTERED PROFESSIONAL ENGINEER
AGRICULTURE
COMMERCE
No. 110599
STATE OF TENNESSEE
3-25-2022

DRAWN:	RML
CHECKED:	CJW
JOB No.	21205
DATE:	3-25-2022

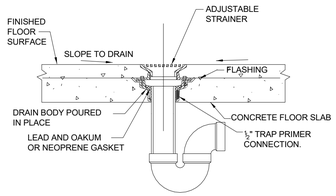
P-0.1

Plumbing Notes and Schedules



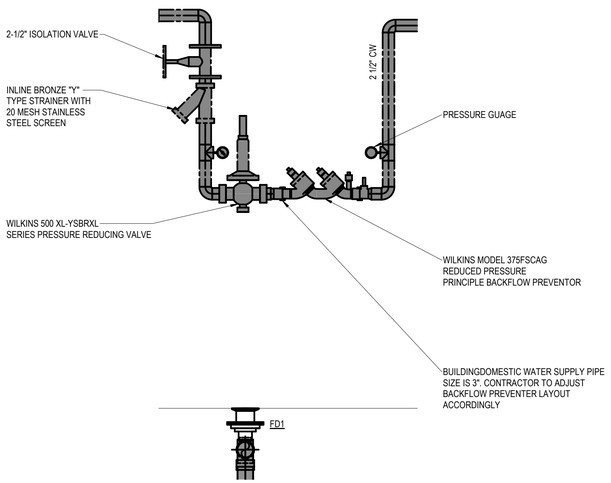
VENT THRU ROOF DETAIL (VTR)

SCALE: NONE

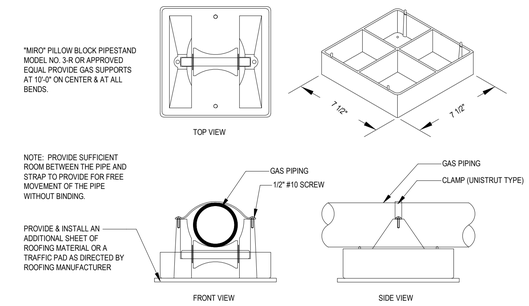


FLOOR DRAIN INSTALLATION DETAIL

SCALE: NONE

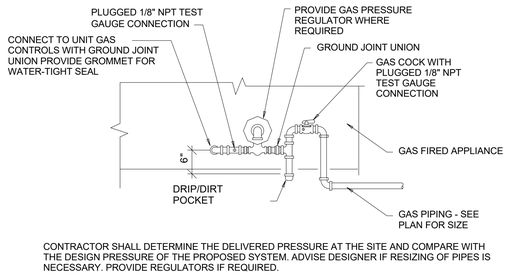


2 BACKFLOW PREVENTOR/ PRV ASSEMBLY DETAIL
3/4" = 1'-0"



GAS PIPING
ROOF SUPPORT DETAIL

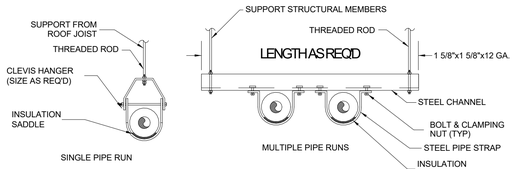
SCALE: NONE



CONTRACTOR SHALL DETERMINE THE DELIVERED PRESSURE AT THE SITE AND COMPARE WITH THE DESIGN PRESSURE OF THE PROPOSED SYSTEM. ADVISE DESIGNER IF RESIZING OF PIPES IS NECESSARY. PROVIDE REGULATORS IF REQUIRED.

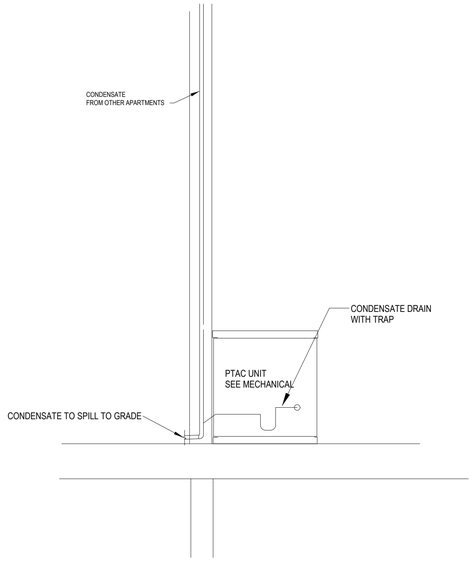
TYPICAL GAS CONNECTION DETAIL

SCALE: NONE

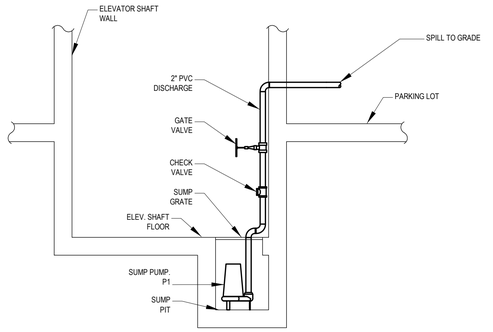


PIPE HANGERS DETAIL

SCALE: NONE



MECHANICAL ROOM DETAIL



ELEVATOR SUMP PUMP DETAIL

SCALE: NONE

Revisions

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KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)

400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

March Adams & Associates
Consulting Engineers

310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

DRAWN:	RML
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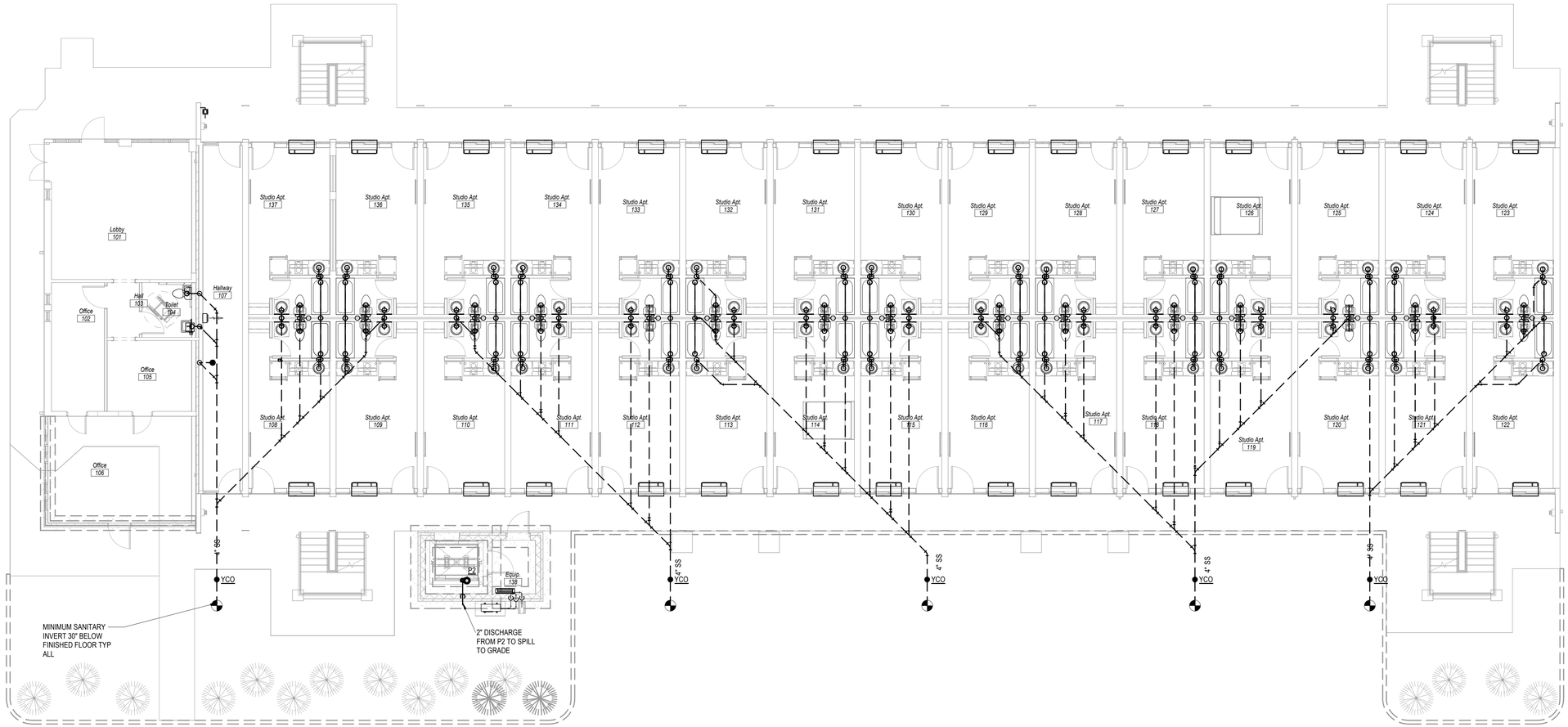
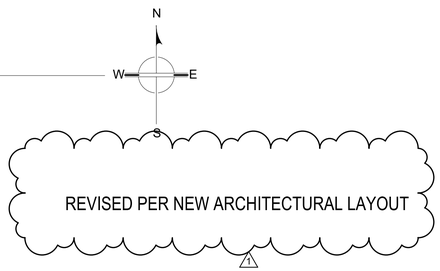
P-0.2

Plumbing Details



1 Level 1 Sanitary Plan Building A
1/8" = 1'-0"



REVISED PER NEW ARCHITECTURAL LAYOUT
1

Revisions

#	REVISION	DATE
1	ADD #1 CITY REVIEW COMMENTS	3/25/22

KNOXVILLE INN RENOVATIONS

at

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KNOXVILLE, TN 37917

for

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C. JEFFREY WESTBROOK
REGISTERED PROFESSIONAL ENGINEER
AGRICULTURE
CHEMICAL
COMPOSITE
COMMERCE
NO. 110599
STATE OF TENNESSEE
3-25-2022

DRAWN:	RML
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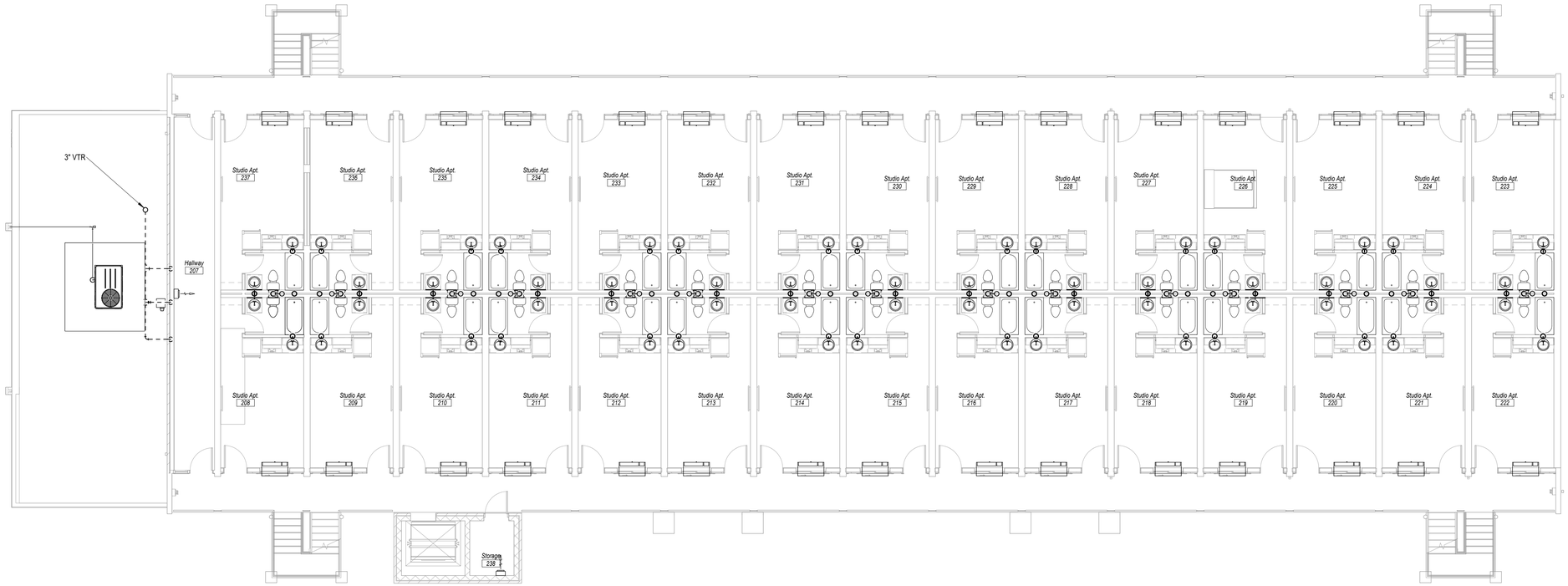
P-1.1

Level 1 Sanitary Plan-Building A



1 Level 2 Sanitary Plan Building A
1/8" = 1'-0"

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AGRICULTURE
COMMERCIAL
No. 110599
STATE OF TENNESSEE
3/25/2022

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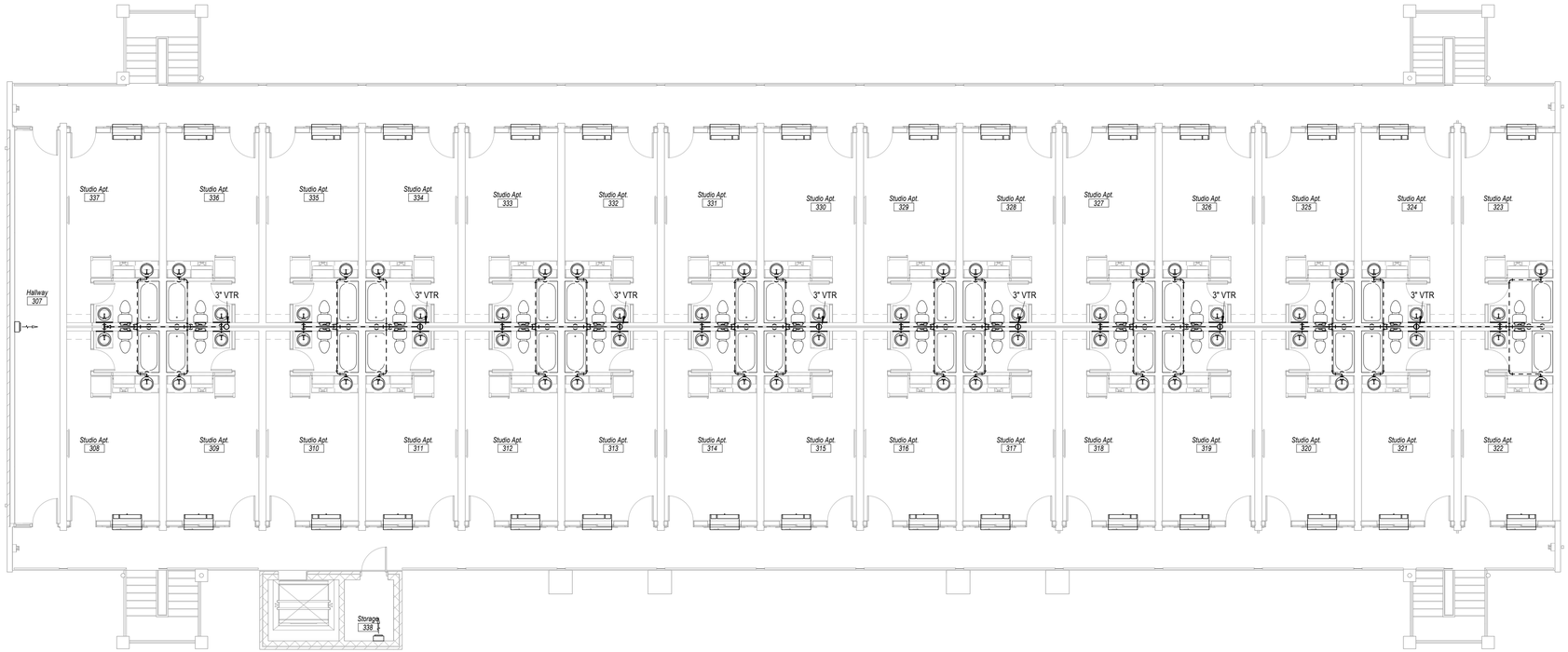
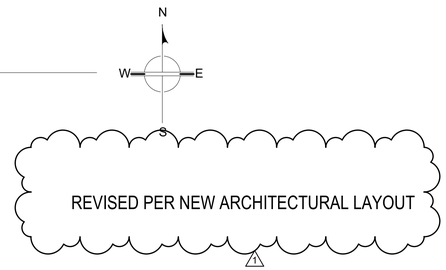
P-1.2

Level 2 Sanitary Plan-Building A



1 Level 3 Sanitary Plan Building A
1/8" = 1'-0"



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C. JEFFREY WESTBROOK — REGISTERED PROFESSIONAL ENGINEER — AGRICULTURE — No. 110599 — STATE OF TENNESSEE — 3/25/2022

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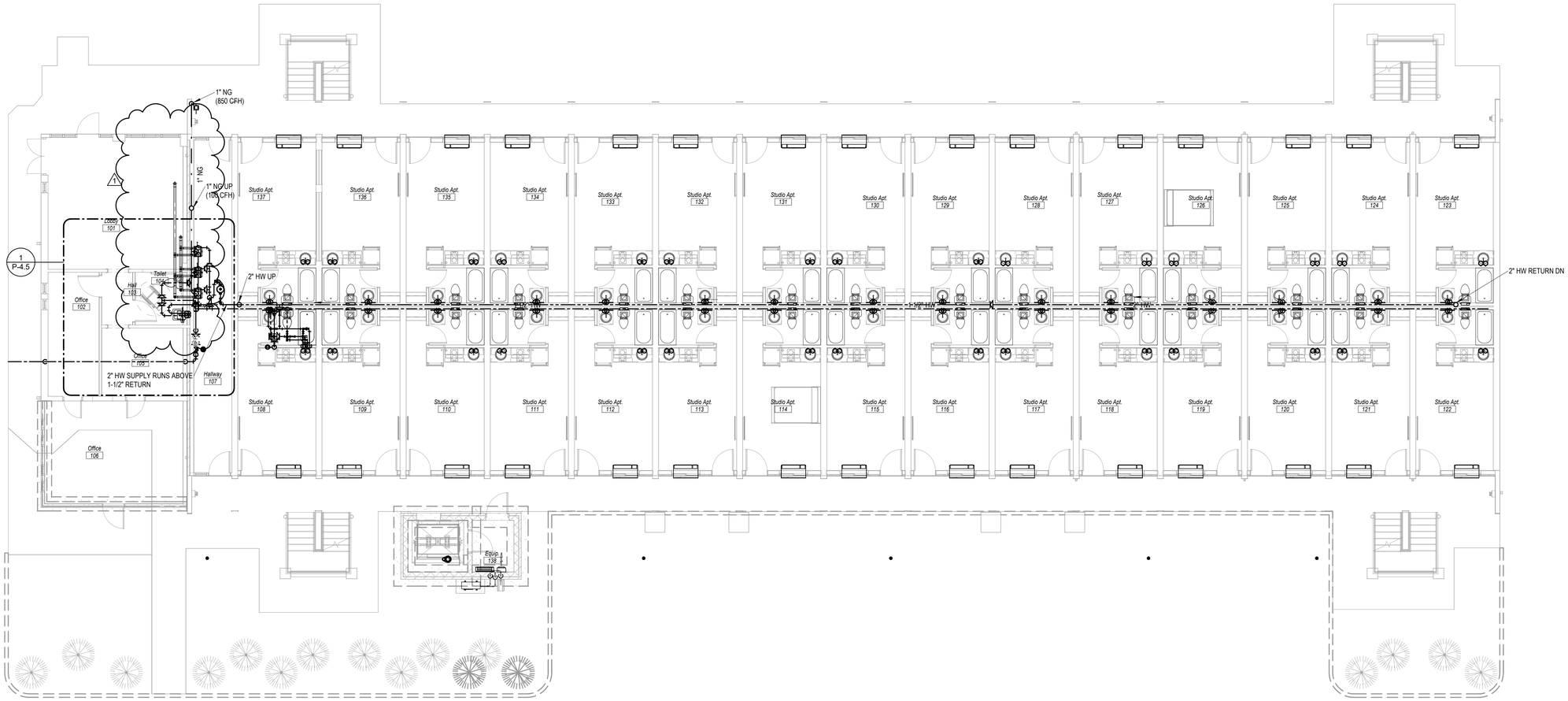
P-1.3

Level 3 Sanitary Plan-Building A



1 Level 1 Domestic Water Plan Building A
1/8" = 1'-0"

REVISED PER NEW ARCHITECTURAL LAYOUT
1

Revisions		
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KNOXVILLE INN RENOVATIONS

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KNOXVILLE, TN 37917

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3-25-2022

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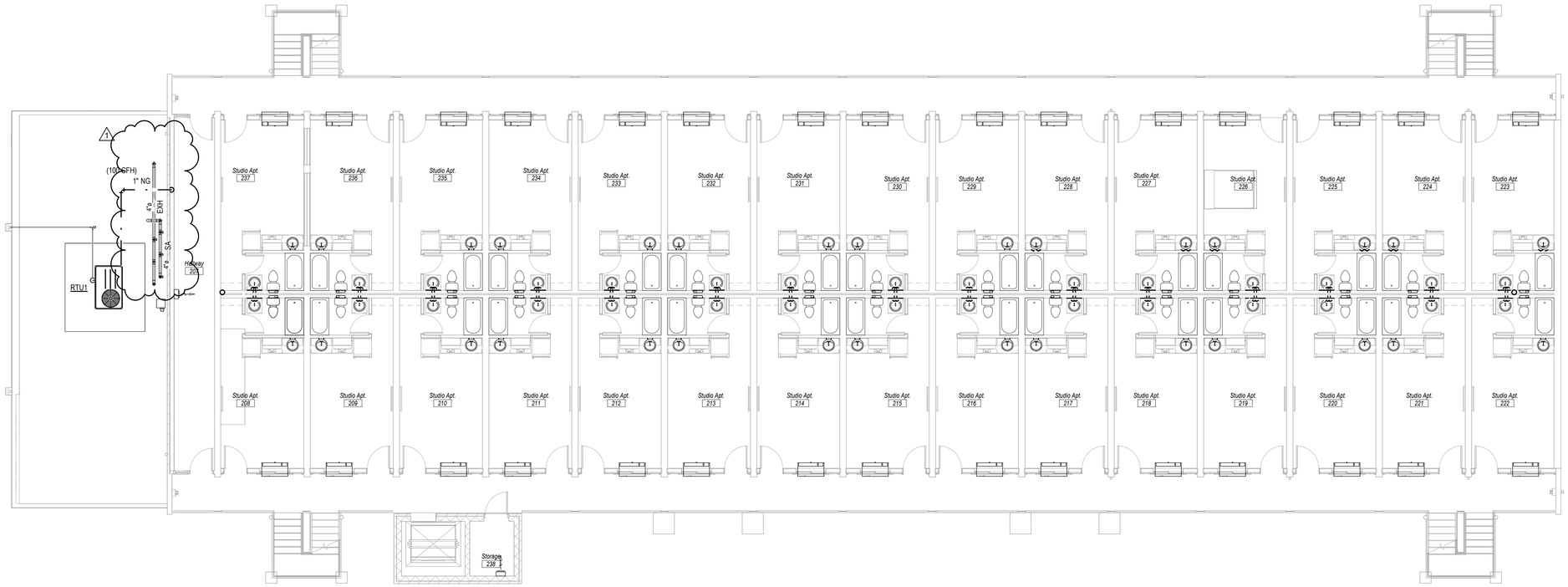
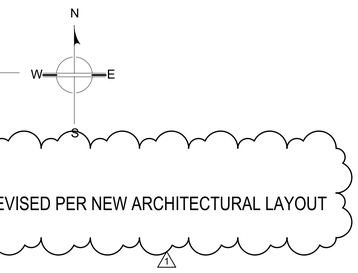
P-2.1

Level 1 Domestic Water Plan- Building A



1 Level 2 Domestic Water Plan Building A
1/8" = 1'-0"



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KNOXVILLE INN RENOVATIONS

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COMMERCE
No. 110599
STATE OF TENNESSEE
3/25/2022

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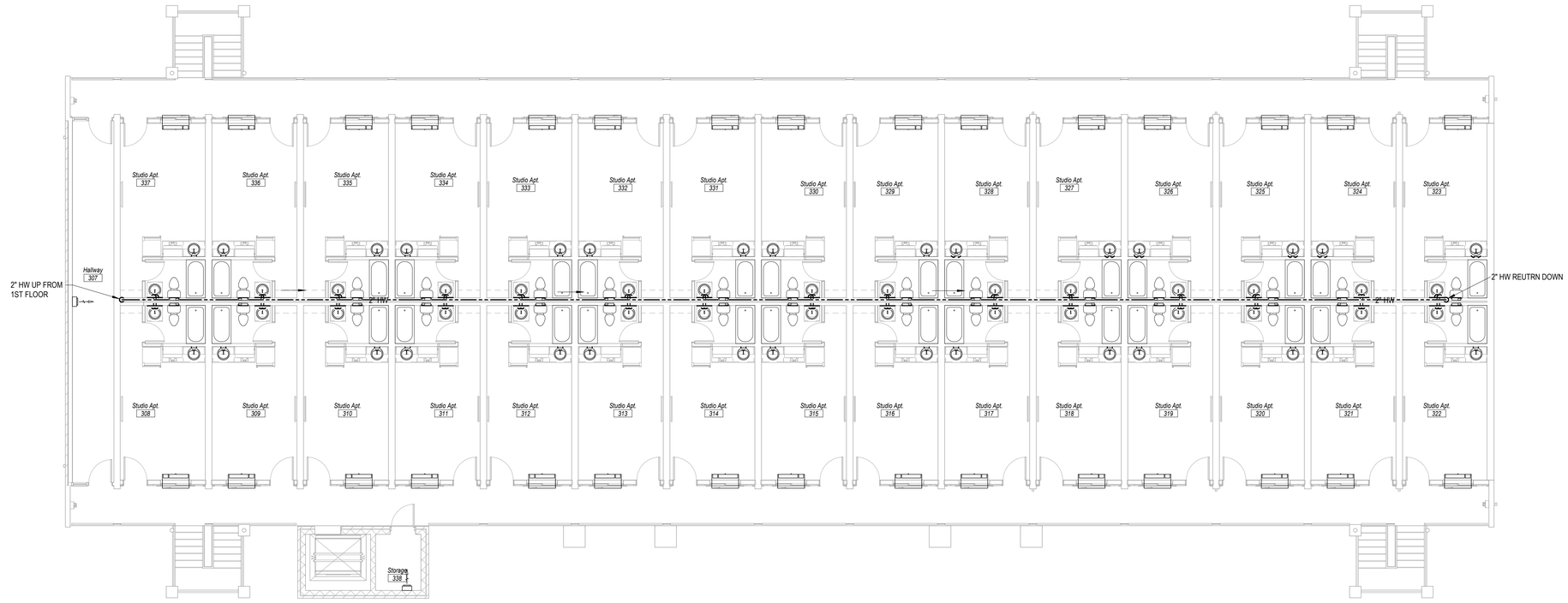
P-2.2

Level 2 Domestic Water Plan- Building A



1 Level 3 Domestic Water Plan Building A
1/8" = 1'-0"

N
W E
S

REVISED PER NEW ARCHITECTURAL LAYOUT
1

Revisions

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KNOXVILLE, TN 37917

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C. JEFFREY WESTBROOK REGISTERED PROFESSIONAL ENGINEER AGRICULTURE COMMERCIAL No. 110599 STATE OF TENNESSEE 2022

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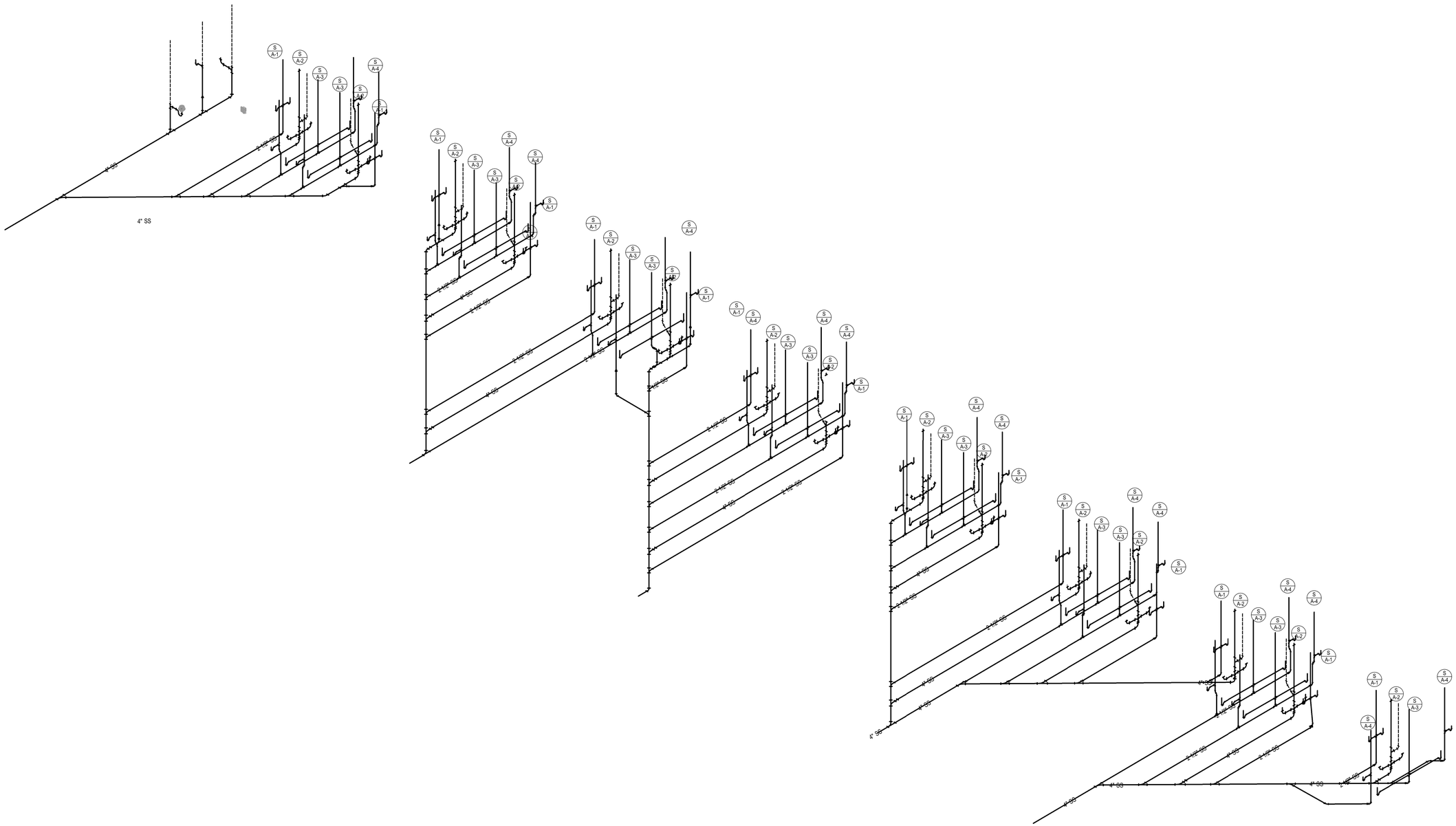
JOB No.	21205
DATE:	3-25-2022

P-2.3

Level 3 Domestic Water Plan- Building A



1 Level 1 Sanitary Isometric-Building A

REVISED PER NEW ARCHITECTURAL LAYOUT
1

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KNOXVILLE INN RENOVATIONS

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P-4.2

Level 1 Sanitary Isometric- Building A

GENERAL ELECTRICAL PROJECT NOTES

GENERAL:
1. VERIFY ALL DOOR SWINGS WITH THE ARCHITECTURAL DRAWINGS BEFORE ROUGHING IN LIGHT SWITCHES TO INSURE PROPER LOCATION. VERIFY ALL CASEWORK HEIGHTS TO INSURE THAT ALL OUTLETS ABOVE CASEWORK ARE AT THE PROPER HEIGHT.

2. VERIFY THE EXACT LOCATION OF ALL MOTORS AND EQUIPMENT OF ELECTRICAL AND OTHER TRADES BEFORE ROUGHING IN ELECTRICAL WORK. ALSO ADVISE OTHER TRADES OF THE LOCATIONS OF ELECTRICAL WORK WHICH WILL AFFECT THEIR WORK, PRIOR TO THE INSTALLATION OF THE ELECTRICAL WORK. COORDINATE LIGHT FIXTURE LOCATION WITH OTHER TRADES AND ARCHITECTURAL.

3. ALL DIMENSIONS AFFECTING ELECTRICAL WORK ARE TO BE CAREFULLY CHECKED AND VERIFIED WITH THE GENERAL CONTRACTOR BEFORE ANY WORK IS DONE.

4. UNLESS OTHERWISE NOTED IN THE WRITTEN SPECIFICATIONS OR ON THE DRAWINGS, ALL ELECTRICAL WORK AND ELECTRICAL EQUIPMENT ARE TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR.

5. FIRE WALL MEMBRANE PENETRATIONS SHALL CONFORM WITH IBC.

WIRE/CONDUIT:
1. ELECTRICAL CONTRACTOR IS TO PROVIDE CONDUITS AND BOXES FOR THERMOSTAT AND SENSOR LOCATIONS. COORDINATE WITH MECHANICAL FOR LOCATIONS, MOUNTING HEIGHTS, BOXES, & CONDUIT SIZE. PROVIDE MEASURED PULL STRINGS. STUB OUT IN 1/2"C.

2. PROVIDE MEASURED PULL STRINGS IN ALL CONDUIT TO BE LEFT EMPTY.

3. PROVIDE SEPARATE GROUND WIRES FOR ALL CIRCUITS. NO RACEWAY GROUNDS.

4. CONTRACTOR IS REQUIRED TO PROVIDE CONDUIT SLEEVE PENETRATIONS THRU RATED WALLS FOR USE BY HIMSELF AND OTHER TRADES. COORDINATE SIZE AND LOCATION OF CONDUITS REQUIRED BY OTHER TRADES. THE INTERIOR OF ALL CONDUIT SLEEVES PENETRATING RATED WALLS ARE TO BE SEALED AROUND WIRING AND TO THE INTERIOR OF THE CONDUIT AT EACH END WITH FIRE STOP MATERIAL TO PRESERVE THE RATING INTEGRITY OF THE WALL; SEALING IS TO BE DONE ONLY AFTER ALL WIRING IS COMPLETE BOTH BY THE ELECTRICAL CONTRACTOR AND OWNER.

5. CONDUIT ROUTING IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ROUTING SHOWN ON THESE DRAWINGS ARE FOR SCHEMATIC PURPOSES ONLY. THE ONLY EXCEPTION TO THIS IS THAT NO SURFACE MOUNTED CONDUIT WILL BE PROVIDED EXCEPT AS INDICATED ON THESE DRAWINGS UNLESS APPROVAL IS GIVEN BY OWNERS REP OR ENGINEER. CONDUIT SIZES INDICATED ON THESE DRAWINGS ARE MINIMUM SIZES FOR INDIVIDUAL HOMERUNS. CONTRACTOR IS FREE TO COMBINE DIFFERENT HOMERUNS IN SAME CONDUIT AND RESIZE ACCORDING TO NEC REQUIREMENTS. CONTRACTOR IS TO PROVIDE MULTIPLE RUNS OF CONDUIT AT HIS EXPENSE TO REPLACE LARGER INDIVIDUAL RUNS OF CONDUIT INDICATED ON THESE DRAWINGS WHERE FIELD CONDITIONS WILL NOT ALLOW THEM TO BE INSTALLED IN THE SIZES SHOWN. ELECTRICAL CONTRACTOR FREE TO USE LEAST EXPENSIVE WIRING METHOD AS ALLOWED BY CODE IN RUNNING DOWN HOTEL CORRIDORS AND ABOVE ELEVATOR LOBBIES FROM PANELS, AND FOR LOW VOLTAGE OR COMMUNICATIONS. ROUTE OVER REST ROOM AREAS OR DOWN CORRIDORS AS SPACE ALLOWS. COORDINATE WITH OTHER TRADES FOR INSTALLATION SO THAT NO TRADES INSTALLED PIPING, DUCTWORK, OR RECESSED LIGHTING FIXTURES INTERFERES WITH THE ARCHITECTS REQUIRED MINIMUM CEILING HEIGHT.CONTRACTOR IS TO PUNCH THRU WALLS WITH CONDUIT RUNS AS REQUIRED BY FIELD CONDITIONS. LOCATE WALL PENETRATIONS ABOVE CEILING AREAS UNLESS OTHERWISE INDICATED. FIRE STOP AS REQUIRED.

6. CONTRACTOR IS FREE TO USE 1/2"C. WHERE ALLOWED BY NUMBER AND SIZE OF CONDUCTORS, FOLLOW NEC. CONTRACTOR IS ALSO FREE TO ROUTE CONDUITS IN THE SLAB IN PVC AS HE DEEMS APPROPRIATE. SEE WIRE/CONDUIT NOTE 6 ABOVE AND ELBOW REQUIREMENTS IN SPECIFICATIONS.

7. ALL 120V, 20A HOMERUNS OVER 120' SHALL BE #10 AWG; ALL RUNS BELOW 120' ARE TO BE #12. 1

POWER/SYSTEMS:
1. PROVIDE SERVICE ENTRANCE GROUNDING IN ACCORDANCE WITH NEC.

2. ELECTRICAL CONTRACTOR TO PROVIDE METER SOCKET IF NOT AVAILABLE THROUGH POWER CO. PROVIDE CT CAN IF REQUIRED BY POWER CO.

3. ALL COMMUNICATIONS SYSTEMS ARE TO BE PROVIDED BY OWNER. THE ELECTRICAL CONTRACTOR IS TO PROVIDE ALL CONDUIT AND STANDARD BACKBOXES IDENTIFIED IN ELECTRICAL DOCUMENTS.

4. VERIFY LOCATION OF ALL TV ELECTRICAL AND CABLE CONNECTIONS WITH ARCHITECT PRIOR TO DOING ANY WORK. ELECTRICAL CONTRACTOR RESPONSIBLE FOR ANY COST ASSOCIATED WITH RELOCATING ELECTRICAL AND CABLE CONNECTIONS DUE TO FAILURE TO COORDINATE WITH OWNER.

5. CONTRACTOR TO MARK CIRCUIT NUMBERS ON ALL J BOXES. MARK ON EXTERIOR IF NOT PAINTED, INTERIOR IF PAINTED.

6. PROVIDE TAMPERPROOF OUTLETS AS REQUIRED BY CODE.

LIGHTING:
1. CONTRACTOR IS TO VERIFY LIGHT FIXTURE COLOR/FINISHES WITH OWNER PRIOR TO ORDER.

2. ALL LIGHT FIXTURES ARE TO BE CHECKED BEFORE ROUGHING IN TO INSURE THAT THEY CAN BE MOUNTED AS DIRECTED BY THE DRAWINGS AND THAT THERE IS ENOUGH SPACE TO ALLOW SUCH.

3. RECESSED LIGHT FIXTURES IN RATED CEILINGS MUST BE PROTECTED OR BE LISTED FOR USE IN A RATED ASSEMBLY. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL FIRE RATED ENCLOSURES OVER ALL RECESSED LIGHT FIXTURES IN FIRE RATED CEILINGS. ENCLOSURES CAN BE HAND CONSTRUCTED OUT OF SHEET ROCK OR A PRE-FAB ASSEMBLY SUCH AS IN THE FOLLOWING LINK CAN BE USED: https://www.tenmatusa.com/fire-rated-light-enclosures/. CONTRACTOR SOLELY RESPONSIBLE FOR DETERMINING LOCATION OF FIRE RATED CEILINGS AND PROVIDING THE PROTECTION AS DESCRIBED. EACH FLOOR/CEILING IS A 1-HOUR RATED ASSEMBLY WITH GYP ON THE UNDERSIDE OF THE STRUCTURE. ANY FINISHED CEILING LOWER THAN THAT (ie: CORRIDORS, GUEST BATHROOMS, MOST CEILINGS ON THE FIRST FLOOR, ETC) ARE NOT FIRE RATED. FIELD VERIFY ALL RATED CEILING LOCATIONS WITH ARCHITECTURAL PLANS PRIOR TO DOING ANY WORK.

4. RECESSED LIGHT FIXTURES IN INSULATED CEILINGS MUST BE I.C. RATED.

5. CONTRACTOR IS RESPONSIBLE FOR COORDINATING LOCATION OF HIS LIGHT FIXTURES WITH OTHER TRADES AND ARCHITECTURAL DRAWINGS PRIOR TO ANY INSTALLATION.

6. PROVIDE PHOTOCELL ON ROOF FOR SWITCHING OF EXTERIOR LIGHTING. SWITCH THRU TIMECLOCK ALSO PROVIDED BY CONTRACTOR.

ELECTRICAL SYMBOLS LEGEND

1'x4' SURFACE MOUNTED LIGHTING FIXTURE.

ROUND SURFACE MOUNTED LIGHTING FIXTURE.

EXIT SIGN, SEE LIGHTIING SCHEDULE FOR INCLUSION OF EMERGENCY BATTERY PACKS. SHADING INDICATES NUMBER AND ORIENTATION OF FACES UNIVERSAL MOUNTING KIT. ARROW INDICATES PROVIDE KNOCKOUT FOR DIRECTIONAL ARROW IN THE DIRECTION SHOWN.

S — WALL MOUNTED SWITCH, MOUNT 48" A.F.F. UNLESS OTHERWISE NOTED. NUMBER INDICATES TYPE (3-WAY, ETC.). PROVIDE NYLON FACEPLATES.

PANELBOARDS; RECESSED OR SURFACE MOUNTED AS NOTED IN PANEL SCHEDULE. UNLESS OTHERWISE NECESSARY BY HEIGHT OF CABINET, MOUNT SO THAT TOP IS AT 6'-0" A.F.F.. 3'-0" HORIZONTAL CLEARANCE MUST BE MAINTAINED FROM FLOOR TO CEILING IN FRONT OF ELECTRICAL PANELS.

A-12 — HOMERUN TO PANELBOARD IN CONDUIT. LETTER INDICATES PANEL, NUMBER INDICATES CIRCUIT NUMBER. CROSS HATCHES INDICATE NUMBER OF CONDUCTORS TO BE #12 AWG UNLESSOTHERWISE NOTED. ALSO PROVIDE PHASE WIRES. LONG LINE INDICATES NEUTRAL. SEPARATE GROUND WIRES FOR ALL CIRCUITS, SIZE PER NEC.

CONDUIT IN FLOOR SLAB OR UNDERGROUND, 3/4" UNLESS OTHERWISE NOTED.

SURFACE MOUNTED EXPOSED CONDUIT, 3/4" UNLESS OTHERWISE NOTED.

J — JUNCTION BOX, SIZE AND USE AS REQUIRED.

DISCONNECT SWITCH. FUSE SIZE SHOWN ON DRAWINGS.

DUPLEX RECEPTACLE OUTLET MOUNTED 18" A.F.F. TO CENTER OF BOX. PROVIDE COMMERICAL GRADE BACK AND SIDE WIRED RECEPTACLES.
"C" INDICATES MOUNTING AT COUNTER TOP HEIGHT, 6" ABOVE BACKSPLASH, VERIFY COUNTER HEIGHTS WITH ARCHITECT PRIOR TO DOING ANY WORK.
"WP" INDICATES A WEATHERPROOF DEVICE MOUNTED HORIZONTALLY. OUTDOOR DEVICES NOT UNDER BUILDING EVES TO BE MOUNTED IN A BUBBLE COVER.
"G" INDICATES GROUND FAULT PROTECTED DEVICE OR BREAKER (SEE PANEL SCH.).
GROUNDS TO LOCATED UP ON ALL RECEPTACLES.
THE USE OF QUICK PLUG TAIL RECEPTACLES ARE ALLOWED AS A LABOR SAVING FEATURE.

TELEPHONE OUTLET, MOUNT AT 18" A.F.F. TO CENTER OF BOX, PROVIDE MEASURED PULL STRING, UNLESS OTHERWISE SHOWN. CABLE & FACE PLATES BY OWNER.

SPECIAL PURPOSE RECEPTACLE. CONTRACTOR TO PROVIDE RECEPTACLE TO MATCH NEMA CONFIGURATION OF CORD & PLUG OF DEVICE TO BE PLUGGED INTO RECEPTACLE.
"C" INDICATES MOUNTING AT COUNTER TOP HEIGHT, 6" ABOVE BACKSPLASH.

C — CABLE TELEVISION CONNECTION. PROVIDE EMPTY SINGLE GANG BOX IN WALL AT SAME HEIGHT AS RECEPTACLES. PROVIDE RECEPTACLE AND EMPTY BOX UNDER SINGLE COVERPLATE.

$ — 20A MOTOR RATED SWITCH WITH HANDLE LOCKING GUARD.

SS — COMBINATION SMOKE & CARBON MONOXIDE DETECTOR. 120V DEVICE WITH BATTERY BACKUP AND SOUNDER BASE. 1

LEGEND NOTES:
1. VERIFY ALL WIRING DEVICES AND COVERPLATES FINISHES WITH THE OWNER PRIOR TO ORDER.

LIGHTING FIXTURE SCHEDULE

Type	MFG	Model	Description
A	SIGNIFY (DAY-BRITE)	2FPZ43L840-4-DS-UNV-DIM	2'x4' RECESSED FLAT PANEL. LED. 30W. 4,300 LUMENS. 3,500K. UNIVERSAL VOLT. 0-10V DIMMING.
AE	SIGNIFY (DAY-BRITE)	2FPZ43L840-4-DS-UNV-DIM-BSL10LST	2'x4' RECESSED FLAT PANEL. LED. 30W. 4,300 LUMENS. 3,500K. UNIVERSAL VOLT. 0-10V DIMMING. PROVIDE WITH EMERGENCY BATTERY PACK.
B	OWNER PROVIDED	OWNER PROVIDED	1'x4' SURFACE MOUNT. LED. 120V.
BE	OWNER PROVIDED	OWNER PROVIDED	1'x4' SURFACE MOUNT. LED. 120V. PROVIDE WITH EMERGENCY BATTERY PACK.
D	OWNER PROVIDED	OWNER PROVIDED	DECORATIVE SURFACE MOUNT. LED. 120V.
D2	OWNER PROVIDED	OWNER PROVIDED	DECORATIVE SURFACE MOUNT. LED. 120V. RATED FOR USE IN A SHOWER.
E	OWNER PROVIDED	OWNER PROVIDED	WALL/CEILING MOUNT EMERGENCY LIGHT. LED. 120V.
F	OWNER PROVIDED	OWNER PROVIDED	EXTERIOR SURFACE MOUNT. LED. 120V.
PTA	SIGNIFY (STONCO)	VWXL-14-NW-G1-8	WALL MOUNTED VAPORTIGHT JELLY JAR. LED. 14W. 600 LUMENS. 4,000K. 120V. GREY FINISH. CAST ALUMINUM HOUSING WITH CORROSION-RESISTANT PAINT. SEALED & GASKETED. FROSTED GLASS DIFFUSER.
PTB	SIGNIFY (DAY-BRITE)	FSWEZ-4-40L-835-UNV	4' STRIP. LED. 40W. 4,231 LUMENS. 3,500K. UNIVERSAL VOLT. 010V DIMMING. FROSTED ACRYLIC LENS.
X	OWNER PROVIDED	OWNER PROVIDED	EXIT SIGN. LED. 120V.

HVAC Unit Wiring Table

Mark	MCA	Wire	Ground	Conduit	Disconnect	Fuse	Enclosure	Volts	Phase	Breaker	Watts	CFM	Tons	HP
DSI-1					SEE TABLE NOTE 5							370		
DSO-1	11.0 A	#12	#12	3/4"	30A/2P	15 A	NEMA 3R	208 V	1	20A/2P	1830			
EF1		#12	#12	3/4"	20A MRS		NEMA 1	120 V	1	W/ LIGHTS	16	50		
EF2		#12	#12	3/4"	20A MRS		NEMA 1	120 V	1	W/ LIGHTS	20	70		0
EWH-1		#10	#10	3/4"	HARDWIRED			208 V	1	30A/2P	2250			
PTHP-1	14.1 A	#12	#12	3/4"	SEE TABLE NOTE 4	15 A		208 V	1	15A/2P	2346	340		
PTHP-2	14.1 A	#12	#12	3/4"	SEE TABLE NOTE 4	15 A		208 V	1	15A/2P	2346	340		
RTU-1	20.0 A	#8	#10	1"	SEE TABLE NOTE 6			208 V	3	30A/3P	5763	1200	3	

TABLE NOTES:
1. THE ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE WITH THE MECHANICAL CONTRACTOR CONCERNING THE ELECTRICAL INFO OF ALL MECHANICAL DEVICES REQUIRING AN ELECTRICAL CONNECTION PRIOR TO DOING ANY WORK. ANY DISCREPANCIES BETWEEN THE FIELD OBTAINED INFORMATION AND THE INFORMATION SHOWN ON THE ELECTRICAL PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO DOING ANY WORK.

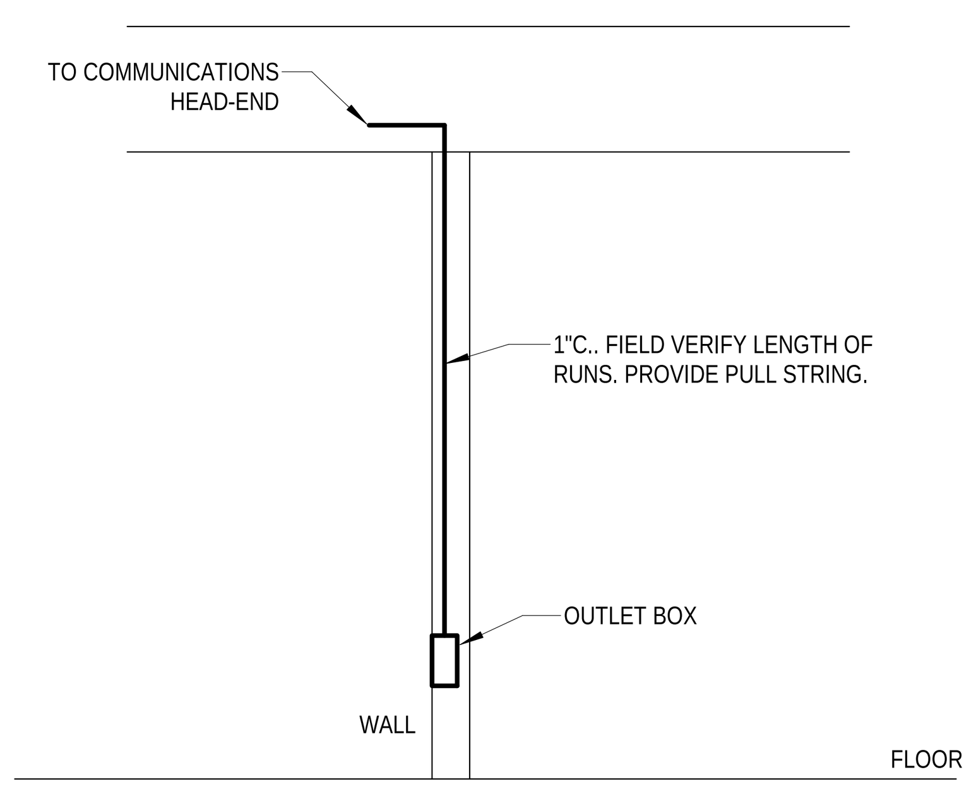
2. PROVIDE NEUTRALS ON AS REQUIRED BASIS, FIELD VERIFY.

3. ALL DISCONNECTS 100A & BELOW ARE TO BE GENERAL DUTY AND 200A & ABOVE ARE TO BE HEAVY DUTY. FUSES TO BE RK-5 TYPE, SUBMIT SHOP DRAWINGS. BUSSMAN FRN-R-(AMP) IS SPECIFIED.

4. PTHP UNIT IS TO BE PLUG WIRED. PROVIDE RECEPTACLE TO MATCH NEMA CONFIGURATION OF CORD & PLUG SUPPLIED WITH UNIT. RECEPTACLE TO BE CONCEALED IN UNIT SUB-BASE.

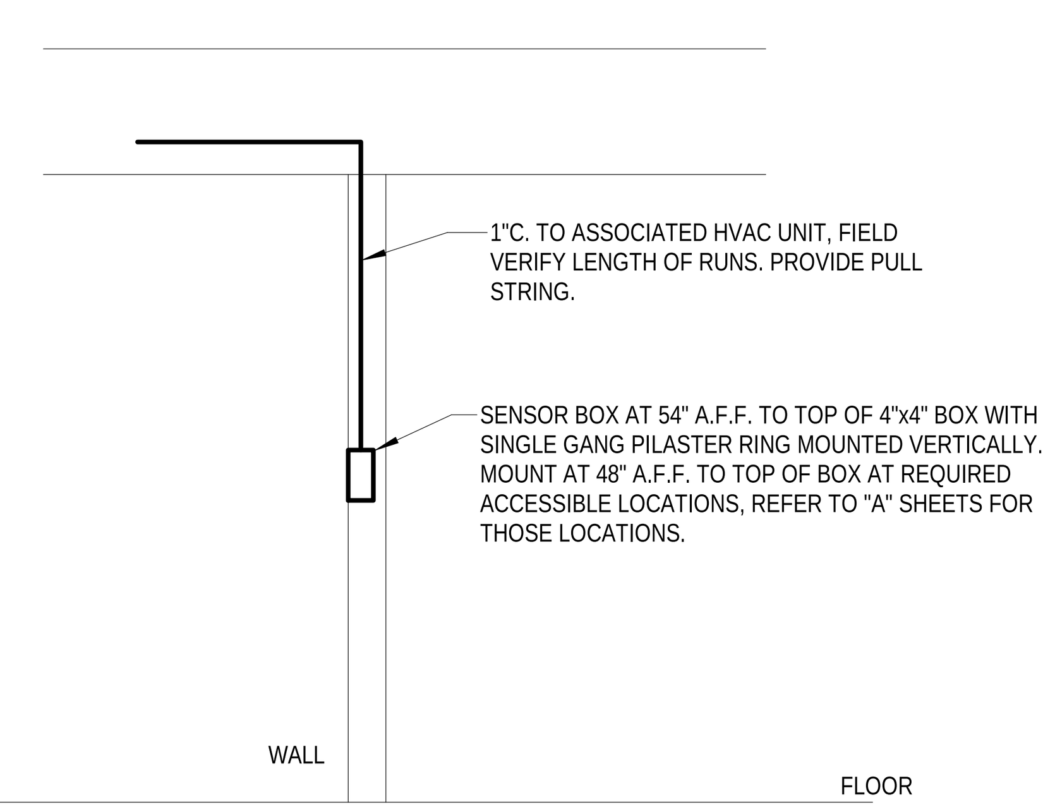
5. UNIT IS POWERED FROM ITS OUTDOOR UNIT. FIELD COORDINATE UNIT PAIRINGS WITH THE MECHANICAL CONTRACTOR PRIOR TO DOING ANY WORK. THE ELECTRICAL CONTRACTOR IS TO RUN SOLID WIRE FROM THE PANEL TO THE DISCONNECT AT THE CONDENSER. THE ELECTRICAL CONTRACTOR IS TO PROVIDE RACEWAY OR PENETRATIONS AS REQUIRE FOR USE BY THE MECHANICAL CONTRACTOR IN HIS WIRING OFTHE INDOOR UNIT. THE ELECTRICAL CONTRACTOR TO PROVIDE MOTOR RATED SWITCH AT THE INDOOR FOR LOCAL DISCONNECTING MEANS, BUT THIS IS TO BE WIRED BY THE MECHANICAL CONTRACTOR AS PART OF HIS CONNECTIONS FORM THE OUTDOOR UNIT TO THE INDOOR UNIT.

6. THE RTU IS TO BE SUPPLIED WITH A FACTORY INSTALLED & WIRED NON-FUSED DISCONNECT. THE ELECTRICAL CONTRACTOR IS TO LAND WIRING ON LUGS AS PER MANUFACTURER SPECS.

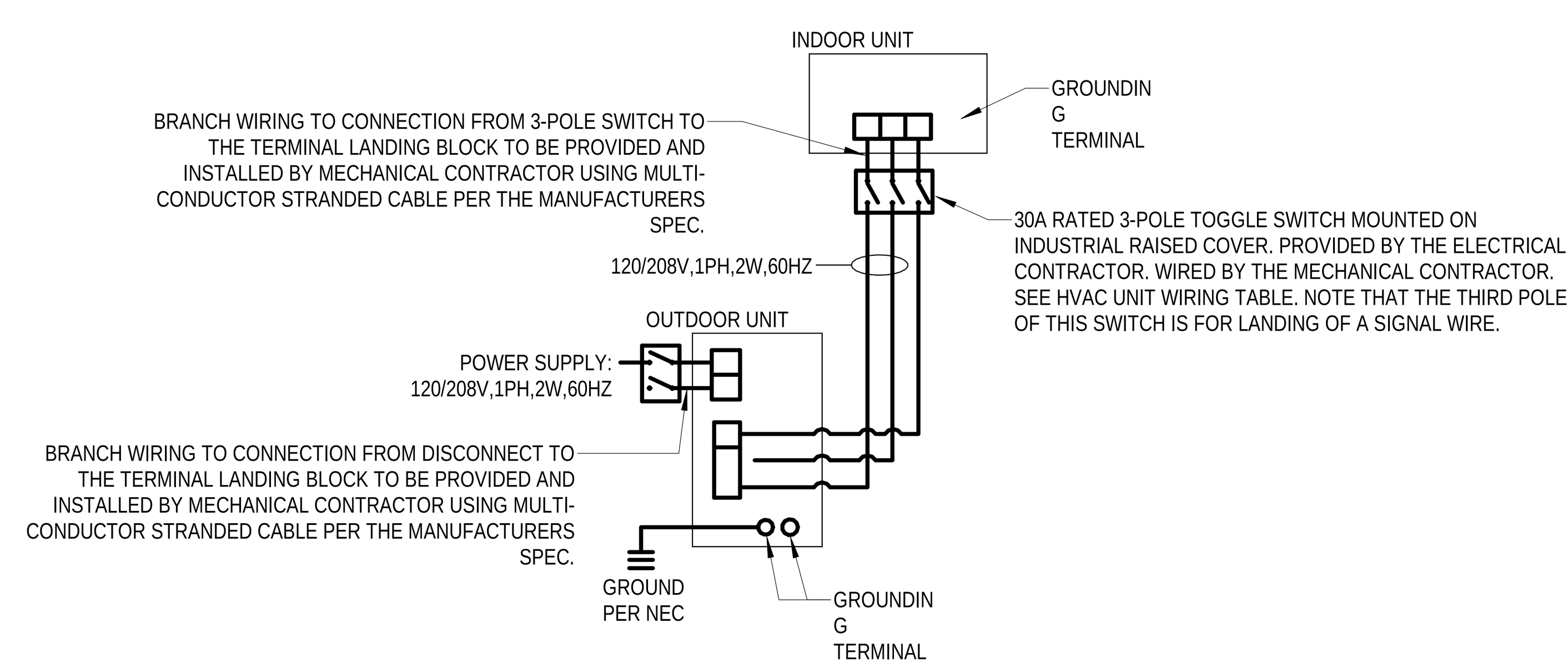


COMMUNICATIONS OUTLET, 16" A.F.F. TO BOTTOM OF BOX UNLESS OTHERWISE NOTED ON DWGS. PROVIDE PULL STRING. CABLE AND FACEPLATE BY OWNER.

3 COMMUNICATION WALL OUTLET DETAIL
N.T.S.



4 THERMOSTAT WALL BOX DETAIL
N.T.S.



2 HVAC Ductless Split Wiring Diagram
N.T.S.

SHEET LIST - ELECTRICAL

NUMBER	NAME
E-0.1	ELECT. PROJECT SCHED. AND NOTES
E-1.1	LEVEL 1 LIGHTING PLAN - BLDG A
E-1.2	LEVEL 2 LIGHTING PLAN - BLDG A
E-1.3	LEVEL 3 LIGHTING PLAN - BLDG A
E-1.4	LEVEL 1 LIGHTING PLAN - BLDG B
E-1.5	LEVEL 2 LIGHTING PLAN - BLDG B
E-1.6	LEVEL 3 LIGHTING PLAN - BLDG B
E-2.1	LEVEL 1 POWER PLAN - BLDG A
E-2.2	LEVEL 2 POWER PLAN - BLDG A
E-2.3	LEVEL 3 POWER PLAN - BLDG A
E-2.4	LEVEL 1 POWER PLAN - BLDG B
E-2.5	LEVEL 2 POWER PLAN - BLDG B
E-2.6	LEVEL 3 POWER PLAN - BLDG B
E-3.1	ELECTRICAL SERVICE RISER DIAGRAM
E-4.1	PANEL SCHEDULES
E-4.2	PANEL SCHEDULES
E-4.3	PANEL SCHEDULES

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)
400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

MA &A
March Adams & Associates
Consulting Engineers
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

STEVEN BOYD SABASKY — STATE OF TENNESSEE — AGRICULTURE COMMERCE — No. 111301 — 03/25/22

DRAWN:	JLH
CHECKED:	GWE
JOB No.	21205
DATE:	09-03-21

E-0.1

ELECT. PROJECT SCHED. AND NOTES

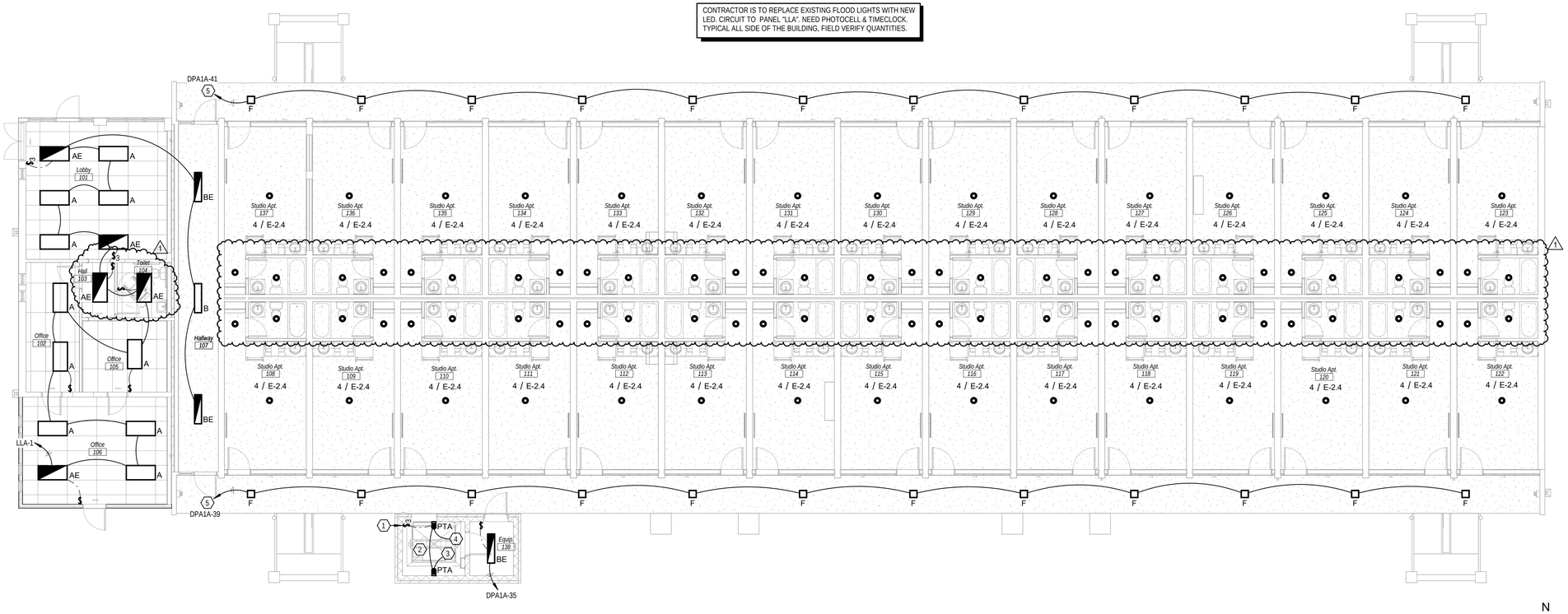
PUBLIC AREA LIGHTING CONTROLS

PUBLIC AREA LIGHTING IS TO BE CONTROLLED AS FOLLOWS:
- EXTERIOR WALKWAY LIGHTING TO BE CONTROLLED BY A PHOTOCELL VIA A LIGHTING CONTACTOR.
- THE ENCLOSED HALLWAY LIGHTING (BETWEEN THE EXTERIOR WALKWAYS) TO BE ON 24/7.

KEYNOTE LEGEND

KEY	KEYNOTE TEXT
1	LOCATE LIGHT SWITCH ADJACENT TO PIT LADDER. FIELD VERIFY LADDER LOCATION PRIOR TO DOING ANY WORK.
2	LIGHT FIXTURES IN THE BOTTOM OF THE SHAFT ARE TO BE LOCATED SO AS TO BE MOUNTED ON THE WALL BELOW THE BOTTOM MOST POINT OF THE ELEVATOR CAR. FIELD COORDINATE WITH ELEVATOR INSTALLER AND ELEVATOR PLANS.
3	RUN WIRING TO LIGHT FIXTURES AT TOP OF SHAFT.
4	CONNECT TO GFCI OUTLET IN BOTTOM OF SHAFT.
5	RUN CIRCUIT THRU LIGHTING CONTACTOR. CONTACTOR IS TO BE CONTROLLED BY PHOTOCELL.

CONTRACTOR IS TO REPLACE EXISTING FLOOD LIGHTS WITH NEW LED. CIRCUIT TO PANEL "LLA". NEED PHOTOCELL & TIMECLOCK. TYPICAL ALL SIDE OF THE BUILDING, FIELD VERIFY QUANTITIES.



1 Level 1 Lighting Plan - Building A
1/8" = 1'-0"

N
W E
S

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

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ATLANTA, GA 30339

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Consulting Engineers
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

STATE OF TENNESSEE — EDWIN BOYD SALVADOR — REGISTERED — AGRICULTURE — ARCHITECT — COMMERCE — No. 111105 — 03/25/22

DRAWN:	JLH
CHECKED:	GWE
JOB No.	21205
DATE:	09-03-21

E-1.1

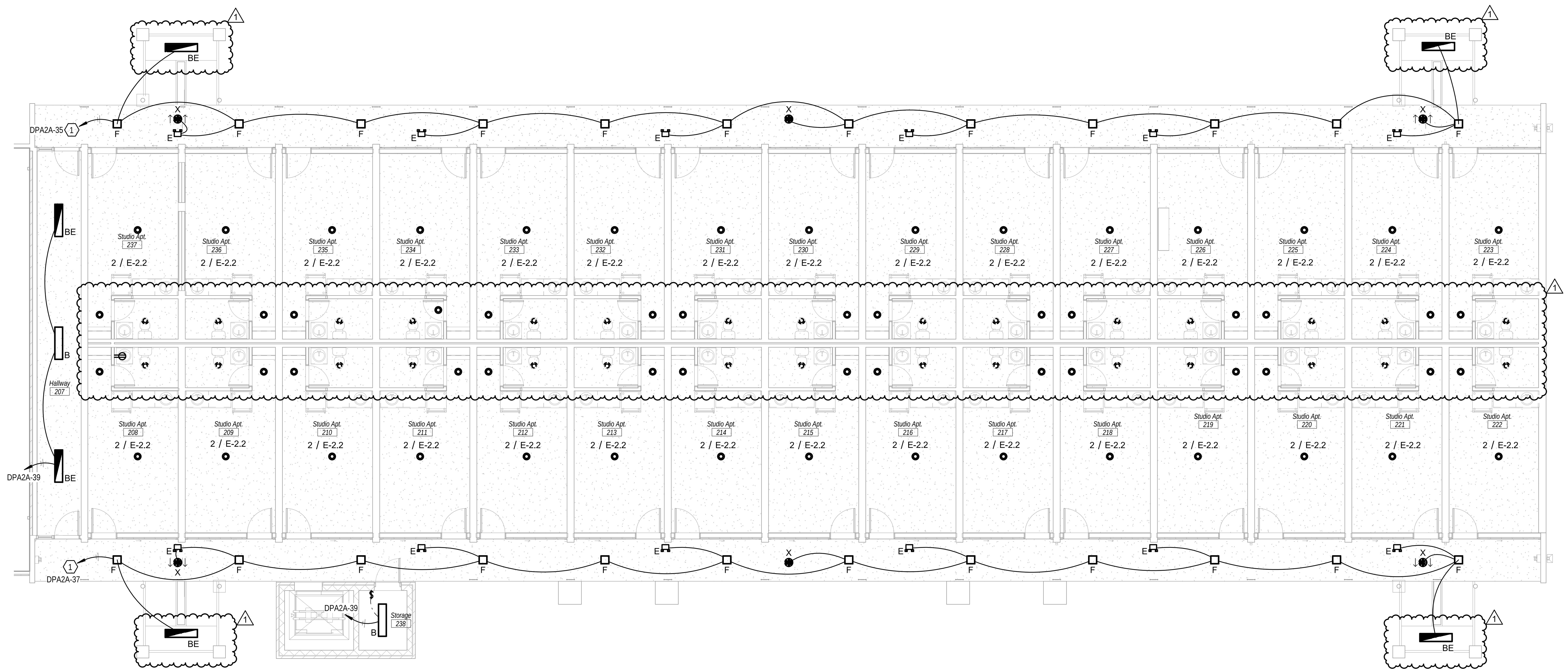
LEVEL 1 LIGHTING PLAN - BLDG A

PUBLIC AREA LIGHTING CONTROLS

PUBLIC AREA LIGHTING IS TO BE CONTROLLED AS FOLLOWS:
- EXTERIOR WALKWAY LIGHTING TO BE CONTROLLED BY A PHOTOCELL VIA A LIGHTING CONTACTOR.
- THE ENCLOSED HALLWAY LIGHTING (BETWEEN THE EXTERIOR WALKWAYS) TO BE ON 24/7.

KEYNOTE LEGEND

KEY	KEYNOTE TEXT
1	RUN CIRCUIT THRU LIGHTING CONTACTOR. CONTACTOR IS TO BE CONTROLLED BY PHOTOCELL.



1 Level 2 Lighting Plan - Building A
1/8" = 1'-0"

N
W
E
S

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

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STEVEN BOYD SABARSKY
STATE OF TENNESSEE
03/25/22

DRAWN:	JLH
CHECKED:	GWE
JOB No.	21205
DATE:	09-03-21

E-1.2

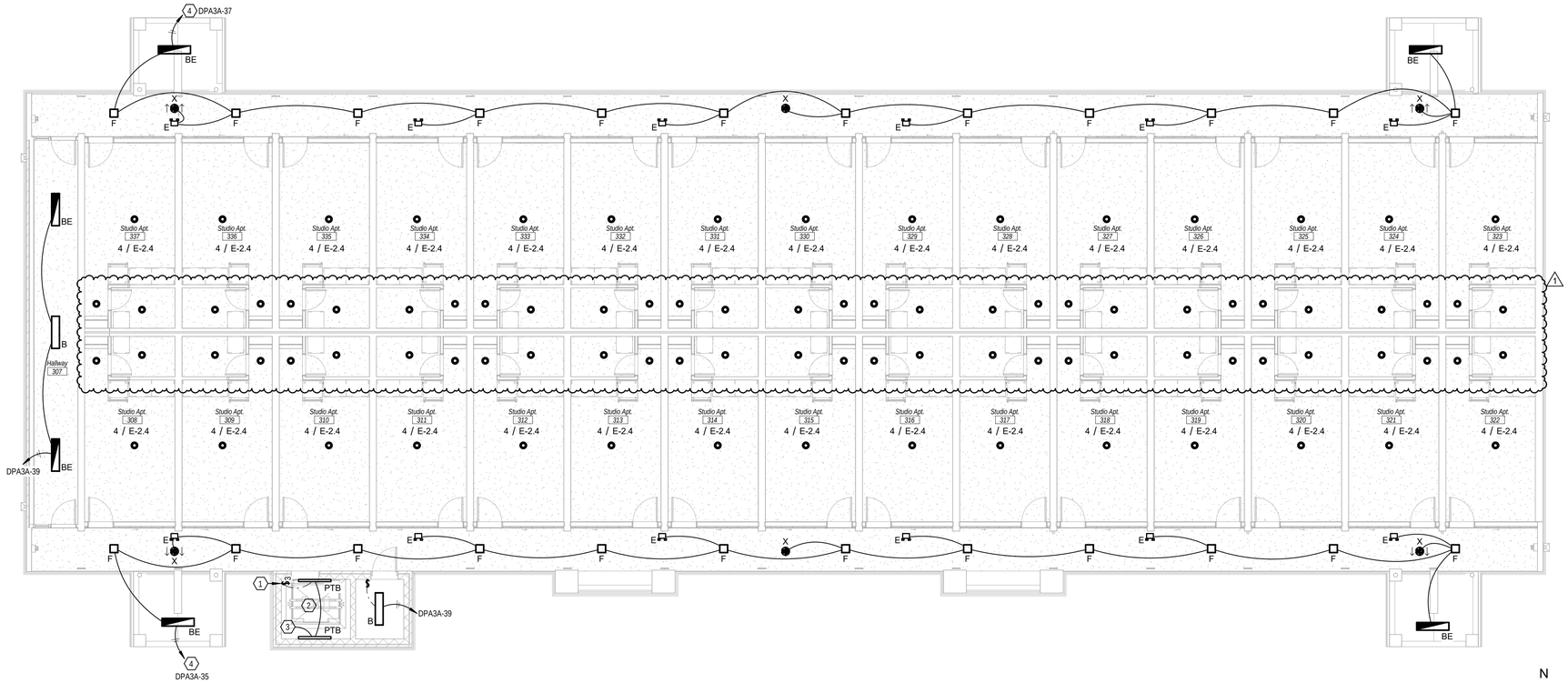
LEVEL 2 LIGHTING PLAN - BLDG A

PUBLIC AREA LIGHTING CONTROLS

PUBLIC AREA LIGHTING IS TO BE CONTROLLED AS FOLLOWS:
- EXTERIOR WALKWAY LIGHTING TO BE CONTROLLED BY A PHOTOCELL VIA A LIGHTING CONTACTOR.
- THE ENCLOSED HALLWAY LIGHTING (BETWEEN THE EXTERIOR WALKWAYS) TO BE ON 24/7.

KEYNOTE LEGEND

KEY	KEYNOTE TEXT
1	LOCATE LIGHT SWITCH ADJACENT TO SHAFT ACCESS HATCH (FIELD LOCATE). SWITCH IS TO OPERATE WITH 3-WAY IN PIT. ALL LIGHTS IN SHAFT ARE TO TURN ON/OFF TOGETHER.
2	LIGHT FIXTURES AT THE TOP OF THE SHAFT ARE TO BE LOCATED SO AS TO BE MOUNTED MOUNTED ON THE WALL ABOVE THE TOP MOST POINT OF THE ELEVATOR CAR. FIELD COORDINATE WITH ELEVATOR INSTALLER AND ELEVATOR PLANS.
3	CONNECT TO LIGHTS AT BOTTOM OF SHAFT.
4	RUN CIRCUIT THRU LIGHTING CONTACTOR. CONTACTOR IS TO BE CONTROLLED BY PHOTOCELL.



1 Level 3 Lighting Plan - Building A
1/8" = 1'-0"

Revisions		
#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

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KNOXVILLE, TN 37917

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400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

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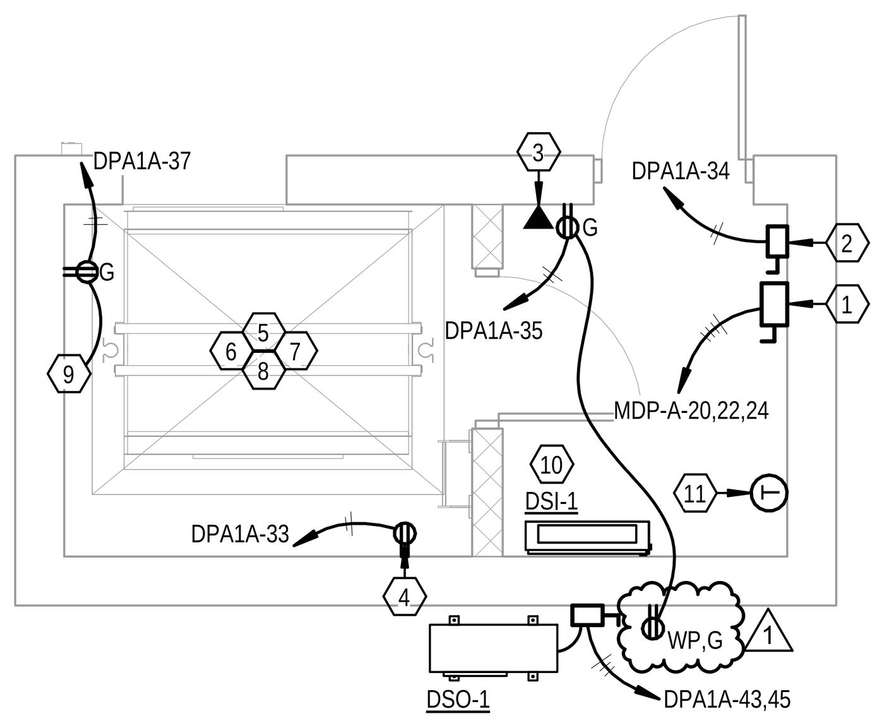
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

STEVEN BOYD SALVADOR
REGISTERED
AGRICULTURE
COMMERCE
STATE OF TENNESSEE
03/25/22

DRAWN:	JLH
CHECKED:	GWE
JOB No.	21205
DATE:	09-03-21

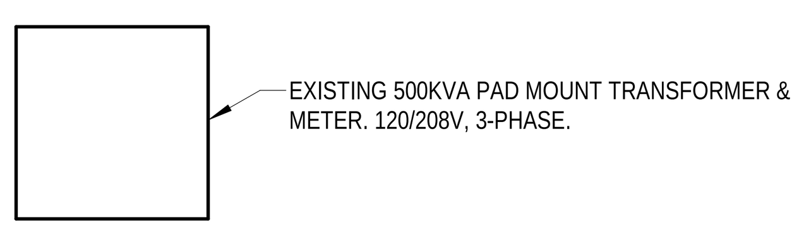
E-1.3

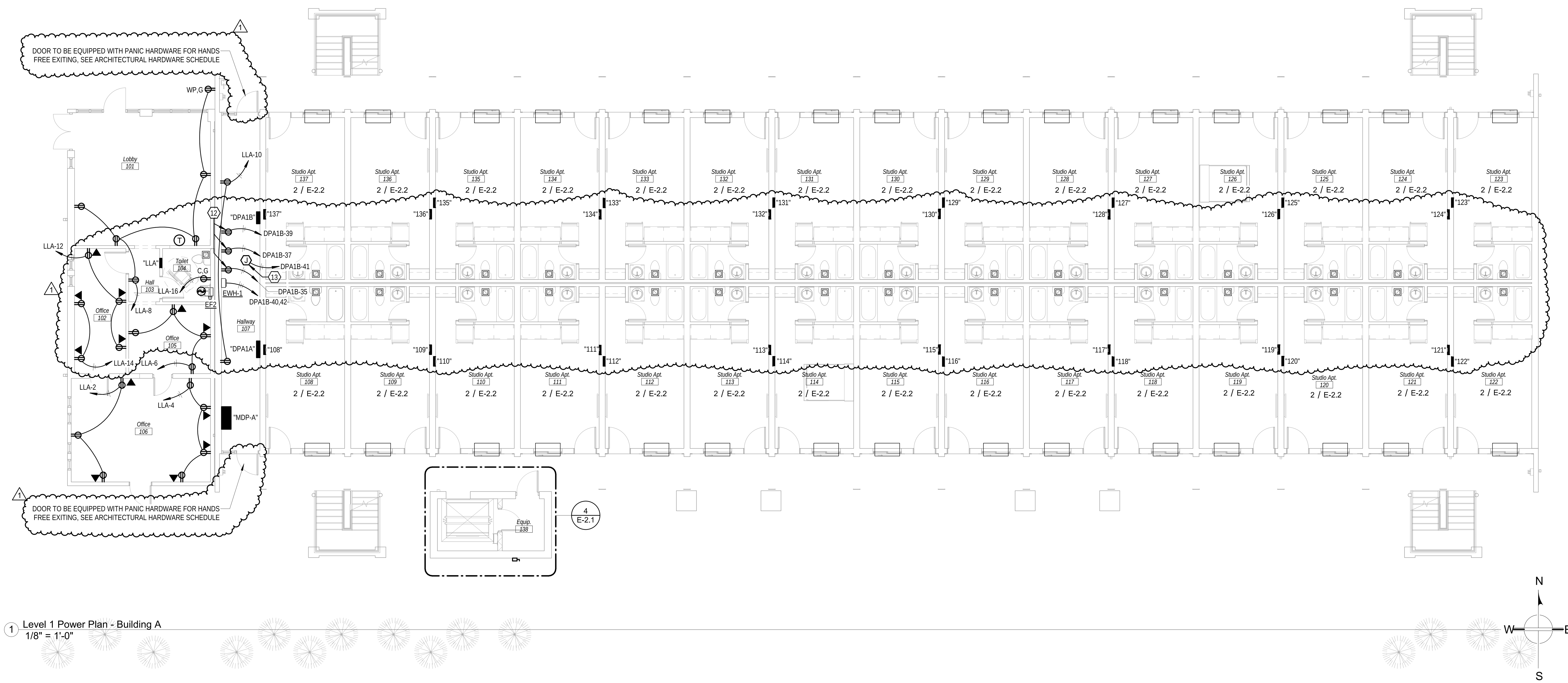
LEVEL 3 LIGHTING PLAN - BLDG A



4 ENLARGED POWER PLAN - ELEVATOR PIT & MACHINE ROOM - Bldg A
1/4" = 1'-0"

KEY	KEYNOTE TEXT
1	PROVIDE 100A/3P DISCONNECT SWITCH WITH 100A DUAL ELEMENT, TIME DELAY, LOW PEAK BUSSMAN #LPN-RK1 FUSE FOR USE AT ELEVATOR MOTOR. ROUTE 4#3 CU. IN 1-1/2"C.. PROVIDE FULL SIZE NEUTRALS AND GROUNDS. DISCONNECT TO BE 4 POLE. PROVIDE N.O. AUX CONTACT FOR USE WITH LOWERING DEVICE. BRANCH WIRE TO ELEVATOR CONTROLLER FROM DISCONNECT.
2	FUSING AND SAFETY SWITCH FOR ELEVATOR CAR LIGHTING AND HVAC. PROVIDE 30A/1P SAFETY SWITCHES FUSED AT 15A. WIRE WITH #10 WIRE IN 3/4"C. AND CIRCUIT AS SHOWN. PROVIDE DRY CONTACTS AS REQUIRED. BREAKER IN PANEL TO BE GFCI TYPE. WIRE TO APPROPRIATE PART OF CONTROLLER.
3	PROVIDE 3/4"C AND BOX FOR USE WITH OWNER PROVIDED TELEPHONE LINE. ROUTE CONDUIT TO ABOVE NEAREST LAY-IN CEILING SPACE AND PROVIDE PULL STRING.
4	PROVIDE WEATHERPROOF NON-GFCI PROTECTED RECEPTACLE FOR ELEVATOR SUMP PUMP. MOUNT RECEPTACLE IN ELEVATOR PIT. COORDINATE WITH ELEVATOR EQUIPMENT SUPPLIER FOR EXACT MOUNTING AND ELECTRICAL ROUGH-IN.
5	COORDINATE LOCATIONS OF ALL EQUIPMENT IN ELEVATOR PIT WITH ELEVATOR SHOP DRAWINGS PRIOR TO ROUGH-IN.
6	ELECTRICAL CONTRACTOR SHALL REFERENCE ELEVATOR SPECIFICATIONS AND COORDINATE ALL REQUIREMENTS WITH ELEVATOR MANUFACTURER FOR ALL ELECTRICAL REQUIREMENTS PRIOR TO ROUGH-IN.
7	CONNECT EMERGENCY SHUT-DOWN OF ELEVATOR AS REQUIRED. SEQUENCE EQUIPMENT TO SHUT-DOWN THE ELEVATOR BY SMOKE DETECTORS WHEN REQUIRED.
8	ALL FITTINGS IN ELEVATOR PIT ARE TO BE COMPRESSION TYPE AND BE NEMA 4 RATED.
9	RUN WIRING TO OUTLET AT TOP OF SHAFT.
10	UNIT IS POWERED FROM ITS OUTDOOR UNIT. REFER TO HVAC UNIT WIRING TABLE NOTE #5 ON SHEET E-0.1. WIRE SYSTEM AS PER MANUFACTURER SPECS.. SEE DETAIL ON SHEET E-0.1.
11	HVAC UNIT THERMOSTAT. REFER TO DETAIL ON SHEET E-0.1. FIELD COORDINATE EXACT LOCATION WITH THE MECHANICAL CONTRACTOR.
12	OUTLET FOR USE WITH GAS TANKLESS WATER HEATER. FIELD COORDINATE LOCATION WITH THE PLUMBING CONTRACTOR.
13	PROVIDE 120V CONNECTION AT HOT WATER RECIRCULATION PUMP. FIELD COORDINATE LOCATION WITH THE PLUMBING CONTRACTOR. PROVIDE 20A SWITCH AT UNIT.





1 Level 1 Power Plan - Building A
1/8" = 1'-0"

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

at

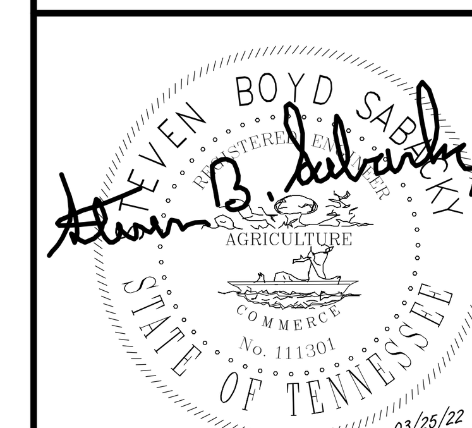
1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)

400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

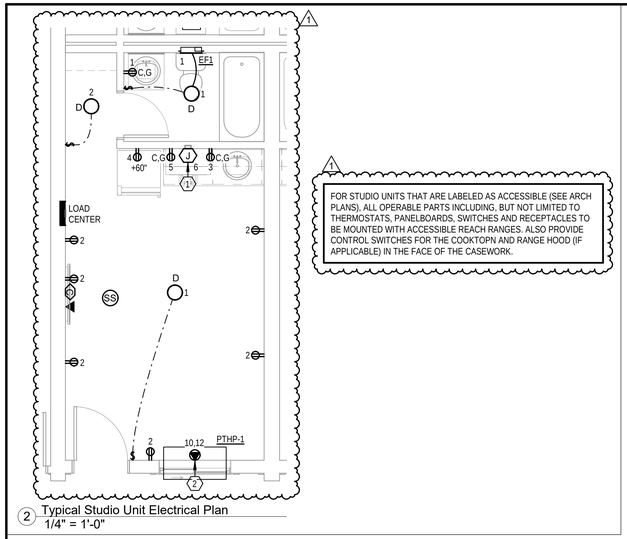
March Adams & Associates
Consulting Engineers
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675



DRAWN:	JLH
CHECKED:	GWE
JOB No.	21205
DATE:	09-03-21

E-2.1

LEVEL 1 POWER PLAN - BLDG A

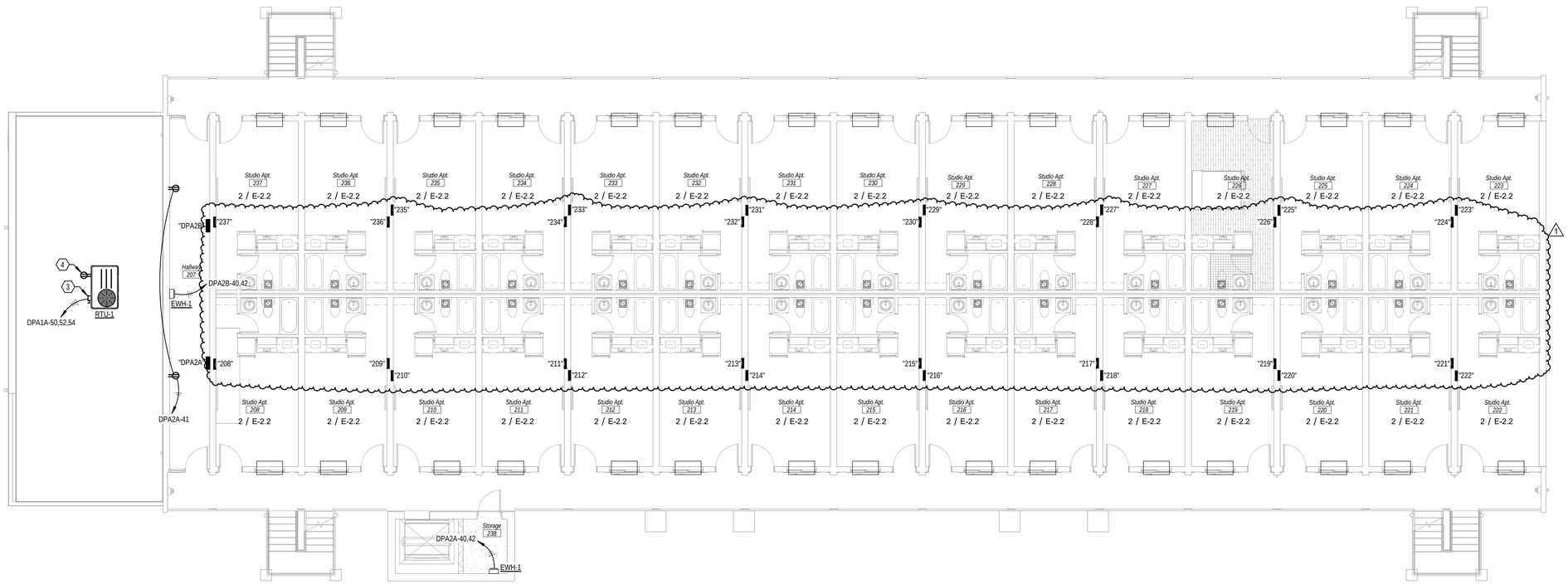


2 Typical Studio Unit Electrical Plan
1/4" = 1'-0"

1 FOR STUDIO UNITS THAT ARE LABELED AS ACCESSIBLE (SEE ARCH PLANS), ALL OPERABLE PARTS INCLUDING, BUT NOT LIMITED TO THERMOSTATS, PANELBOARDS, SWITCHES AND RECEPTACLES TO BE MOUNTED WITH ACCESSIBLE REACH RANGES. ALSO PROVIDE CONTROL SWITCHES FOR THE COOKTOPN AND RANGE HOOD (IF APPLICABLE) IN THE FACE OF THE CASEWORK.

KEYNOTE LEGEND

KEY	KEYNOTE TEXT
1	PROVIDE 120V CONNECTION BELOW COUNTER FOR USE WITH COOKTOP. RUN #10 CU. WITH #10 CU. GROUND IN 3/4"C. TO PANEL. WIRE AS PER MANUFACTURER SPECS.. FIELD VERIFY LOCATION.
2	PROVIDE 120/208V, 1-PHASE ELECTRICAL CONNECTION TO HVAC UNIT. UNIT BY MECHANICAL. WIRING BY ELECTRICAL CONTRACTOR. REFER TO HVAC WIRING TABLE ON SHEET E-4.02 FOR ELECTRICAL INFORMATION..
3	FACTORY INSTALLED & WIRED NON-FUSED DISCONNECT. LAND WIRE ON LUGS AS PER MANUFACTURER SPECS..
4	FACTORY INSTALLED & WIRED CONVENIENCE OUTLET. SHOWN FOR REFERENCE ONLY.



1 Level 2 Power Plan - Building A
1/8" = 1'-0"

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)
400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

March Adams & Associates
Consulting Engineers
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

STEVEN BOYD SABO
REGISTERED
AGRICULTURE
ENGINEER
COMMERCE
STATE OF TENNESSEE
03/25/22

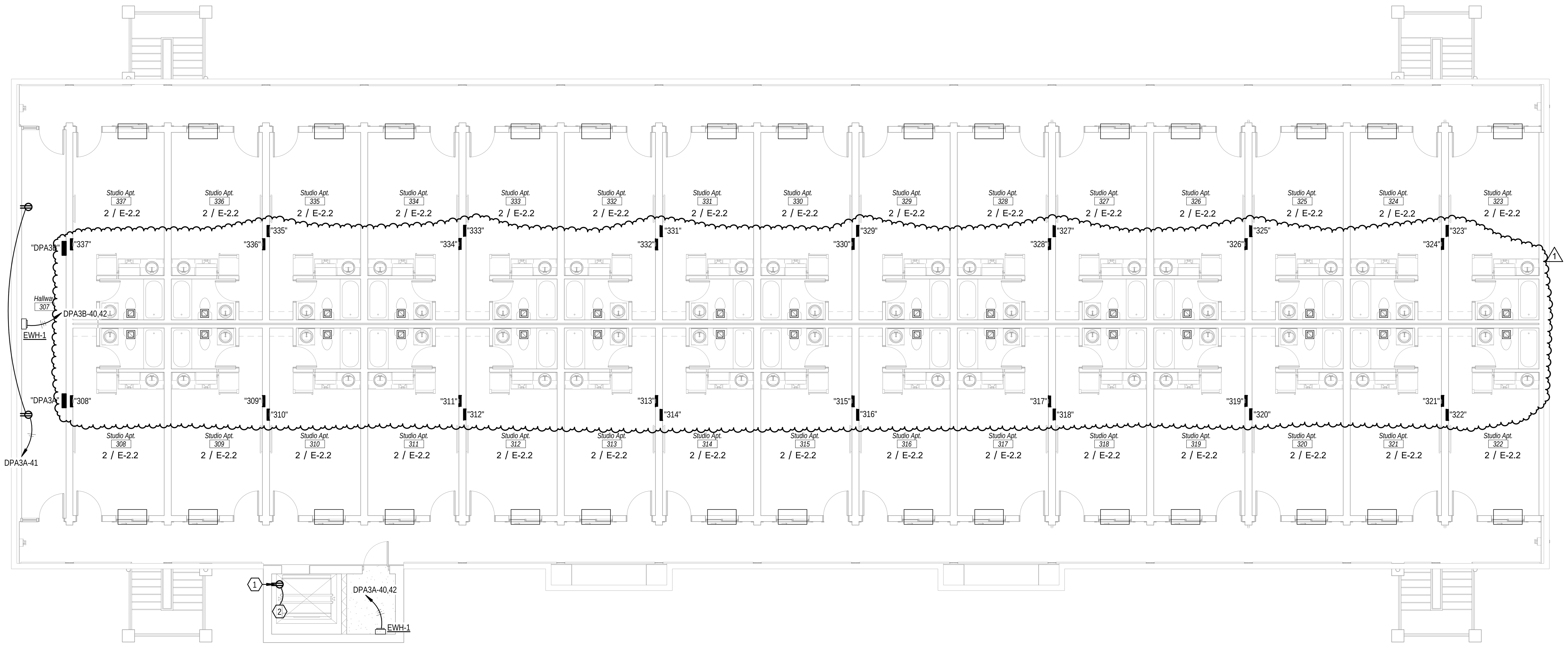
DRAWN:	JLH
CHECKED:	GWE
JOB No.	21205
DATE:	09-03-21

E-2.2

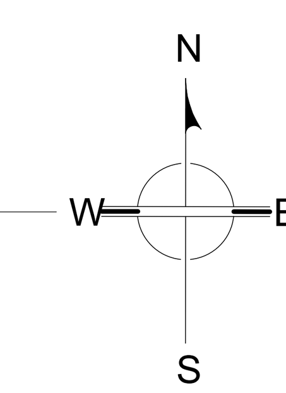
LEVEL 2 POWER PLAN - BLDG A

KEYNOTE LEGEND

KEY	KEYNOTE TEXT
1	OUTLET AT TOP OF SHAFT NEXT TO SHAFT ACCESS HATCH (FIELD LOCATE).
2	CONNECT TO GFCI OUTLET IN BOTTOM OF SHAFT.



1 Level 3 Power Plan - Building A
1/8" = 1'-0"



Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)
400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

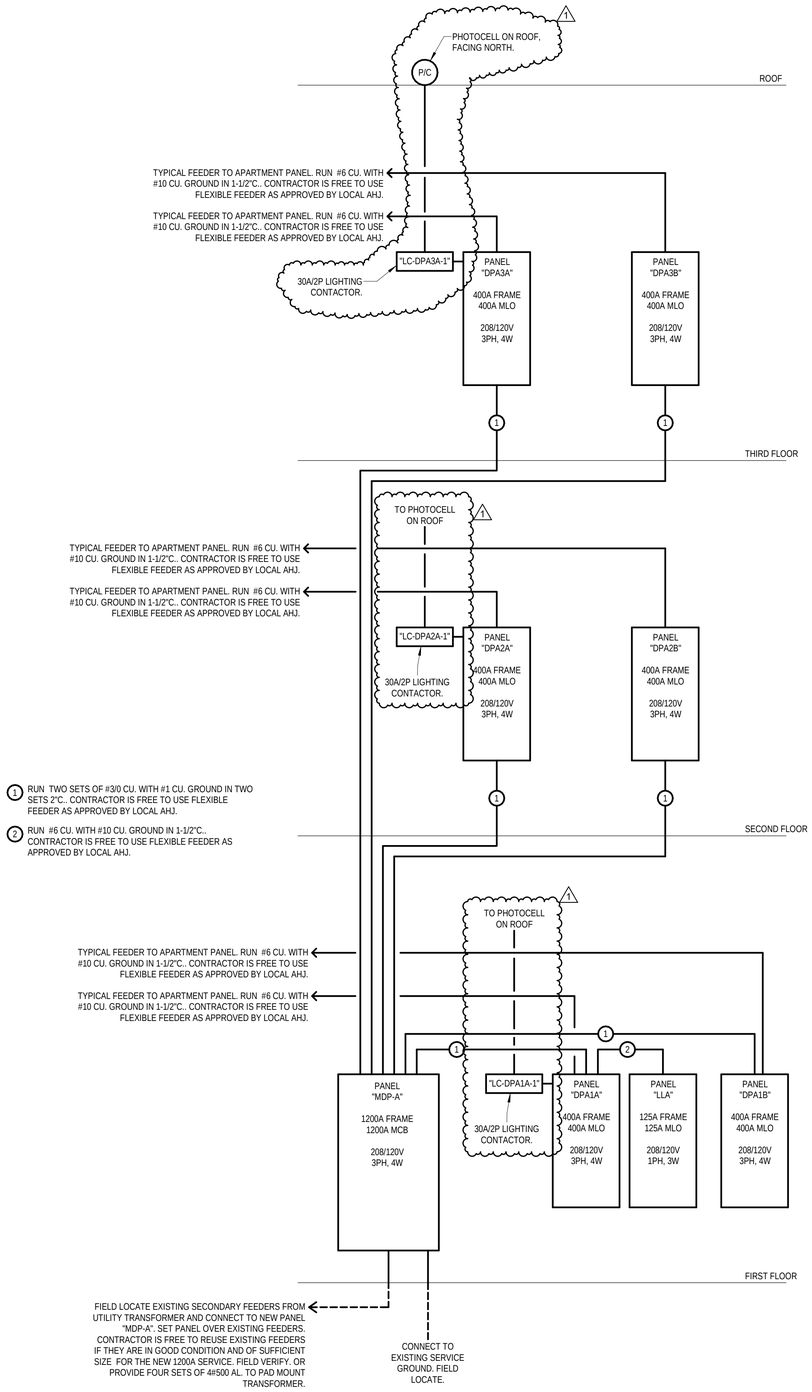
MA &A
March Adams & Associates
Consulting Engineers
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

STEVEN BOYD SABARSKY — STATE OF TENNESSEE — AGRICULTURE — COMMERCE — No. 111301
03/25/22

DRAWN:	JLH
CHECKED:	GWE
JOB No.	21205
DATE:	09-03-21

E-2.3

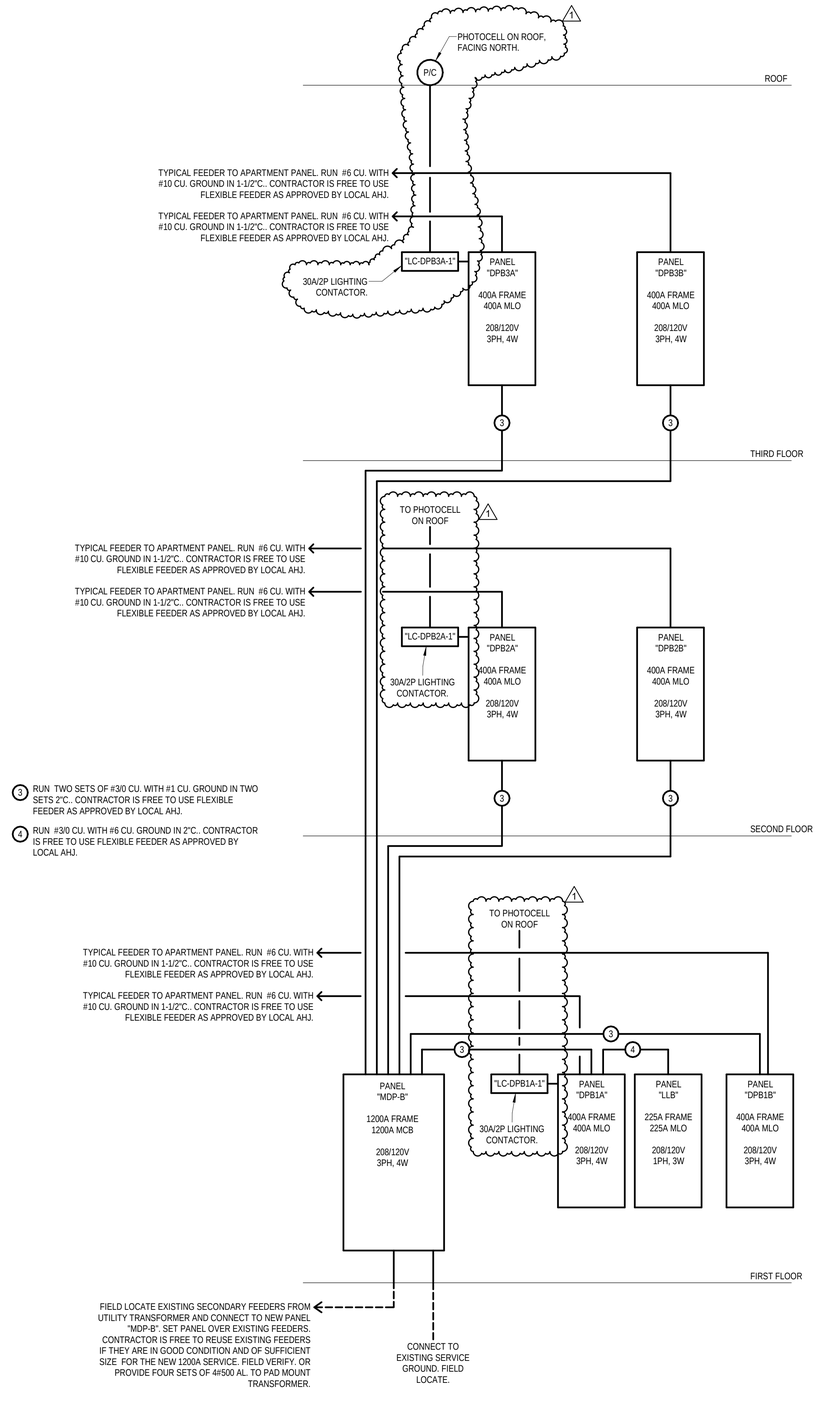
LEVEL 3 POWER PLAN - BLDG A



1 RUN TWO SETS OF #3/0 CU. WITH #1 CU. GROUND IN TWO SETS 2"C.. CONTRACTOR IS FREE TO USE FLEXIBLE FEEDER AS APPROVED BY LOCAL AHJ.

2 RUN #6 CU. WITH #10 CU. GROUND IN 1-1/2"C.. CONTRACTOR IS FREE TO USE FLEXIBLE FEEDER AS APPROVED BY LOCAL AHJ.

1 Electrical Service Riser Diagram - Building A
N.T.S.



3 RUN TWO SETS OF #3/0 CU. WITH #1 CU. GROUND IN TWO SETS 2"C.. CONTRACTOR IS FREE TO USE FLEXIBLE FEEDER AS APPROVED BY LOCAL AHJ.

4 RUN #3/0 CU. WITH #6 CU. GROUND IN 2"C.. CONTRACTOR IS FREE TO USE FLEXIBLE FEEDER AS APPROVED BY LOCAL AHJ.

2 Electrical Service Riser Diagram - Building B
N.T.S.

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)
400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

March Adams & Associates
Consulting Engineers
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

STEVEN BOYD SHARPLEY — LICENSED PROFESSIONAL ENGINEER — No. 115391 — STATE OF TENNESSEE — 03/25/22

DRAWN:	JLH
CHECKED:	GWE
JOB No.	21205
DATE:	09-03-21

E-3.1

ELECTRICAL SERVICE RISER DIAGRAM

PANEL SCHEDULE CODE LEGEND

F - PROVIDE RED PAD LOCK DEVICE.
G - PROVIDE GFCI RATED BREAKER.
K - PROVIDE LOCKING DEVICE ON BREAKER.
L - RUN CIRCUIT THRU LIHTING CONTACTOR.

Panel: DPA1A

Location: Hallway 107 **Volts:** 120/208 Wye **A.I.C. Rating:** Series Rated at 65K.
Supply From: MDP-A **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Frame Rating:** 400 A
Enclosure: Type 1 **MLO Rating:** 400 A

Notes:
Provide typewritten panel schedules with plastic cover. Circuit names to be exactly as listed here. Provide engraved nameplate on face of panel.

CODE	CKT	Circuit Description	Trip	PLS	A		B		C		PLS	Trip	Circuit Description	CKT	CODE
	1	Panel "108"	60	2	3670	3670					2	60	Panel "109"	2	
	3						3670	3670						4	
	5	Panel "110"	60	2					3670	3670	2	60	Panel "111"	6	
	7				3670	3670								8	
	9	Panel "112"	60	2			3670	3670			2	60	Panel "113"	10	
	11								3670	3670				12	
	13	Panel "114"	60	2	3670	3670					2	60	Panel "115"	14	
	15						3670	3670						16	
	17	Panel "116"	60	2					3670	3670	2	60	Panel "117"	18	
	19				3670	3670								20	
	21	Panel "119"	60	2			3670	3670			2	60	Panel "118"	22	
	23								3670	3670				24	
	25	Panel "120"	60	2	3670	3670					2	60	Panel "121"	26	
	27						3670	3670						28	
	29	Panel "122"	60	2					3670	2544	2	60	Panel "LLA" 1	30	
	31				3670	2520								32	
	33	Elev Shaft Sump Pump	20	1			180	750			1	20	Elevator Car	34	
	35	Elev. Machine Room	20	1					398	0	1	20	Spare	36	
	37	Elevator Shaft	20	1	451	0					1	20	Spare	38	
L	39	LTS - Walkway	20	1			30	0			1	20	Spare	40	
L	41	LTS - Walkway	20	1					360	0	1	20	Spare	42	
	43	DSI-1/DSO-1	20	2	915	0					1	20	Spare	44	
	45						915	0			1	20	Spare	46	
	47	Spare	20	1					0	0	1	20	Spare	48	
	49	Spare	20	1	0	1921					3	30	RTU-1	50	
	51	Spare	20	1			0	1921						52	
	53	Spare	20	1					0	1921				54	
		Total Connected Load (VA):			46177 VA		40495 VA		38235 VA						
		Total Connected Load (A):			388 A		340 A		319 A						

Legend:

PANEL CONNECTED LOAD TOTALS

Total Connected Load:	124906 VA	347 A

Notes:

Panel: DPA1B

Location: Hallway 107 **Volts:** 120/208 Wye **A.I.C. Rating:** Series Rated at 65K.
Supply From: MDP-A **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Frame Rating:** 400 A
Enclosure: Type 1 **MLO Rating:** 400 A

Notes:
Provide typewritten panel schedules with plastic cover. Circuit names to be exactly as listed here. Provide engraved nameplate on face of panel.

CODE	CKT	Circuit Description	Trip	PLS	A		B		C		PLS	Trip	Circuit Description	CKT	CODE
	1	Panel "137"	60	2	3670	3670					2	60	Panel "136"	2	
	3						3670	3670						4	
	5	Panel "135"	60	2					3670	3670	2	60	Panel "134"	6	
	7				3670	3670								8	
	9	Panel "133"	60	2			3670	3670			2	60	Panel "132"	10	
	11								3670	3670				12	
	13	Panel "131"	60	2	3670	3670					2	60	Panel "130"	14	
	15						3670	3670						16	
	17	Panel "129"	60	2					3670	3670	2	60	Panel "128"	18	
	19				3670	3670								20	
	21	Panel "127"	60	2			3670	4336			2	60	Panel "126"	22	
	23								3670	2553				24	
	25	Panel "125"	60	2	3670	3670					2	60	Panel "124"	26	
	27						3670	3670						28	
	29	Panel "123"	60	2					3670	0	--	--	Space Only	30	--
	31				3670	0					--	--	Space Only	32	--
--	33	Space Only	--	--			0	0			--	--	Space Only	34	--
	35	Rcps. - Water Heater	20	1					900	0	--	--	Space Only	36	--
	37	Rcps. - Water Heater	20	1	900	0					--	--	Space Only	38	--
	39	Rcps. - Water Heater	20	1			900	1000			2	30	EWH-1	40	
	41	Recirc Pump	20	1					150	1000				42	
		Total Connected Load (VA):			41270 VA		39071 VA		33768 VA						
		Total Connected Load (A):			351 A		332 A		281 A						

Legend:

PANEL CONNECTED LOAD TOTALS

Total Connected Load:	114105 VA	317 A

Notes:

Panel: DPA2A

Location: Hallway 207 **Volts:** 120/208 Wye **A.I.C. Rating:** Series Rated at 65K.
Supply From: MDP-A **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Frame Rating:** 400 A
Enclosure: Type 1 **MLO Rating:** 400 A

Notes:
Provide typewritten panel schedules with plastic cover. Circuit names to be exactly as listed here. Provide engraved nameplate on face of panel.

CODE	CKT	Circuit Description	Trip	PLS	A		B		C		PLS	Trip	Circuit Description	CKT	CODE
	1	Panel "208"	60	2	3670	3670					2	60	Panel "209"	2	
	3						3670	3670						4	
	5	Panel "210"	60	2					3670	3670	2	60	Panel "211"	6	
	7				3670	3670								8	
	9	Panel "212"	60	2			3670	3670			2	60	Panel "213"	10	
	11								3670	3670				12	
	13	Panel "214"	60	2	3670	3670					2	60	Panel "215"	14	
	15						3670	3670						16	
	17	Panel "216"	60	2					3670	3670	2	60	Panel "217"	18	
	19				3670	3670								20	
	21	Panel "218"	60	2			3670	3670			2	60	Panel "219"	22	
	23								3670	3670				24	
	25	Panel "220"	60	2	3670	3670					2	60	Panel "221"	26	
	27						3670	3670						28	
	29	Panel "222"	60	2					3670	0	--	--	Space Only	30	--
	31				3670	0					--	--	Space Only	32	--
--	33	Space Only	--	--			0	0			--	--	Space Only	34	--
L	35	LTS - Walkway	20	1					360	0	--	--	Space Only	36	--
L	37	LTS - Walkway	20	1	360	0					--	--	Space Only	38	--
	39	LTS - Hall	20	1			160	1000			2	30	EWH-1	40	
	41	Rcps. - Hall	20	1					360	1000				42	
		Total Connected Load (VA):			40712 VA		37658 VA		34539 VA						
		Total Connected Load (A):			343 A		318 A		288 A						

Legend:

PANEL CONNECTED LOAD TOTALS

Total Connected Load:	112906 VA	313 A

Notes:

Panel: DPA2B

Location: Hallway 207 **Volts:** 120/208 Wye **A.I.C. Rating:** Series Rated at 65K.
Supply From: MDP-A **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Frame Rating:** 400 A
Enclosure: Type 1 **MLO Rating:** 400 A

Notes:
Provide typewritten panel schedules with plastic cover. Circuit names to be exactly as listed here. Provide engraved nameplate on face of panel.

CODE	CKT	Circuit Description	Trip	PLS	A		B		C		PLS	Trip	Circuit Description	CKT	CODE
	1	Panel "237"	60	2	3670	3670					2	60	Panel "236"	2	
	3						3670	3670						4	
	5	Panel "235"	60	2					3670	3670	2	60	Panel "234"	6	
	7				3670	3670								8	
	9	Panel "233"	60	2			3670	3670			2	60	Panel "232"	10	
	11								3670	3670				12	
	13	Panel "231"	60	2	3670	3670					2	60	Panel "230"	14	
	15						3670	3670						16	
	17	Panel "229"	60	2					3670	3670	2	60	Panel "228"	18	
	19				3670	3670								20	
	21	Panel "227"	60	2			3670	3670			2	60	Panel "226"	22	
	23								3670	3670				24	
	25	Panel "225"	60	2	3670	3670					2	60	Panel "224"	26	
	27						3670	3670						28	
	29	Panel "223"	60	2					3670	0	--	--	Space Only	30	--
	31				3670	0					--	--	Space Only	32	--
--	33	Space Only	--	--			0	0			--	--	Space Only	34	--
--	35	Space Only	--	--					0	0	--	--	Space Only	36	--
--	37	Space Only	--	--	0	0					--	--	Space Only	38	--
--	39	Space Only	--	--			0	1000			2	30	EWH-1	40	
--	41	Space Only	--	--					0	1000				42	
		Total Connected Load (VA):			40370 VA		37505 VA		33835 VA						
		Total Connected Load (A):			341 A		317 A		282 A						

Legend:

PANEL CONNECTED LOAD TOTALS

Total Connected Load:	111706 VA	310 A

Notes:

Panel: DPA3A

Location: Hallway 307 **Volts:** 120/208 Wye **A.I.C. Rating:** Series Rated at 65K.
Supply From: MDP-A **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Frame Rating:** 400 A
Enclosure: Type 1 **MLO Rating:** 400 A

Notes:
Provide typewritten panel schedules with plastic cover. Circuit names to be exactly as listed here. Provide engraved nameplate on face of panel.

CODE	CKT	Circuit Description	Trip	PLS	A		B		C		PLS	Trip	Circuit Description	CKT	CODE
	1	Panel "308"	60	2	3670	3670					2	60	Panel "309"	2	
	3						3670	3670						4	
	5	Panel "310"	60	2					3670	3670	2	60	Panel "311"	6	
	7				3670	3670								8	
	9	Panel "312"	60	2			3670	3670			2	60	Panel "313"	10	
	11								3670	3670				12	
	13	Panel "314"	60	2	3670	3670					2	60	Panel "315"	14	
	15						3670	3670						16	
	17	Panel "316"	60	2					3670	3670	2	60	Panel "317"	18	
	19				3670	3670								20	
	21	Panel "318"	60	2			3670	3670			2	60	Panel "319"	22	
	23								3670	3670				24	
	25	Panel "320"	60	2	3670	3670					2	60	Panel "321"	26	
	27						3670	3670						28	
	29	Panel "322"	60	2					3670	0	--	--	Space Only	30	--
	31				3670	0					--	--	Space Only	32	--
--	33	Space Only	--	--			0	0			--	--	Space Only	34	--
L	35	LTS - Stairs, Walkway	20	1					440	0	--	--	Space Only	36	--
L	37	LTS - Stairs, Walkway	20	1	440	0					--	--	Space Only	38	--
	39	LTS - Hall	20	1			160	1000			2	30	EWH-1	40	
	41	Rcps. - Hall	20	1					360	1000				42	
		Total Connected Load (VA):			40788 VA		37658 VA		34616 VA						
		Total Connected Load (A):			344 A		318 A		288 A						

Legend:

PANEL CONNECTED LOAD TOTALS

Total Connected Load:	113058 VA	314 A

Notes:

Panel: DPA3B

Location: Hallway 307 **Volts:** 120/208 Wye **A.I.C. Rating:** Series Rated at 65K.
Supply From: MDP-A **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Frame Rating:** 400 A
Enclosure: Type 1 **MLO Rating:** 400 A

Notes:
Provide typewritten panel schedules with plastic cover. Circuit names to be exactly as listed here. Provide engraved nameplate on face of panel.

CODE	CKT	Circuit Description	Trip	PLS	A		B		C		PLS	Trip	Circuit Description	CKT	CODE
	1	Panel "337"	60	2	3670	3670					2	60	Panel "336"	2	
	3						3670	3670						4	
	5	Panel "335"	60	2					3670	3670	2	60	Panel "334"	6	
	7				3670	3670								8	
	9	Panel "333"	60	2			3670	3670			2	60	Panel "332"	10	
	11								3670	3670				12	
	13	Panel "331"	60	2	3670	3670					2	60	Panel "330"	14	
	15						3670	3670						16	
	17	Panel "329"	60	2					3670	3670	2	60	Panel "328"	18	
	19				3670	3670								20	
	21	Panel "327"	60	2			3670	3670			2	60	Panel "326"	22	
	23								3670	3670				24	
	25	Panel "325"	60	2	3670	3670					2	60	Panel "324"	26	
	27						3670	3670						28	
	29	Panel "323"	60	2					3670	0	--	--	Space Only	30	--
	31				3670	0					--	--	Space Only	32	--
--	33	Space Only	--	--			0	0			--	--	Space Only	34	--
--	35	Space Only	--	--					0	0	--	--	Space Only	36	--
--	37	Space Only	--	--	0	0					--	--	Space Only	38	--
--	39	Space Only	--	--			0	1000			2	30	EWH-1	40	
--	41	Space Only	--	--					0	1000				42	
		Total Connected Load (VA):			40370 VA		37505 VA		33835 VA						
		Total Connected Load (A):			341 A		317 A		282 A						

Legend:

PANEL CONNECTED LOAD TOTALS

Total Connected Load:	111706 VA	310 A

Notes:

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

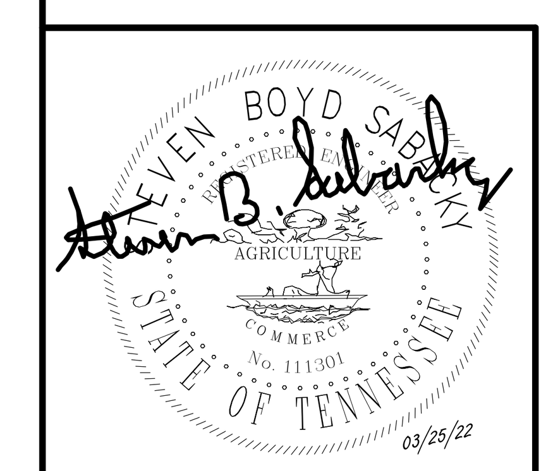
at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)
400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

March Adams & Associates
Consulting Engineers
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675



DRAWN:	JLH
CHECKED:	GWE
JOB No.	21205
DATE:	09-03-21

E-4.1

PANEL SCHEDULES

PANEL SCHEDULE CODE LEGEND

F - PROVIDE RED PAD LOCK DEVICE.
G - PROVIDE GFCI RATED BREAKER.
K - PROVIDE LOCKING DEVICE ON BREAKER.
L - RUN CIRCUIT THRU LIHTING CONTACTOR.

Panel: DPB1A

Location: Hallway 100 **Volts:** 120/208 Wye **A.I.C. Rating:** Series Rated at 65K.
Supply From: MDP-B **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Frame Rating:** 400 A
Enclosure: Type 1 **MCB Rating:** 400 A

Notes:
Provide typewritten panel schedules with plastic cover. Circuit names to be exactly as listed here. Provide engraved nameplate on face of panel.

CODE	CKT	Circuit Description	Trip	PLS	A	A	B	B	C	C	PLS	Trip	Circuit Description	CKT	CODE
	1	Panel "102"	60	2	3670	3670					2	60	Panel "103"	2	
	3						3670	3670						4	
	5	Panel "104"	60	2					3670	3670	2	60	Panel "105"	6	
	7				3670	3670								8	
	9	Panel "106"	60	2			3670	3670			2	60	Panel "107"	10	
	11								3670	3670				12	
	13	Panel "108"	60	2	3670	3670					2	60	Panel "109"	14	
	15						3670	3670						16	
	17	Panel "110"	60	2					3670	3670	2	60	Panel "111"	18	
	19				3670	3670								20	
	21	Panel "112"	60	2			3670	3670			2	60	Panel "113"	22	
	23								3670	3670				24	
	25	Panel "114"	60	2	3670	3670					2	60	Panel "115"	26	
	27						3670	3670						28	
	29	Panel "116"	60	2					3670	13145	2	60	Panel "LLB"	30	
	31				3670	14414								32	
--	33	Space Only	--	--			0	0			--	--	Space Only	34	--
--	35	Space Only	--	--					0	0	--	--	Space Only	36	--
--	37	Space Only	--	--	0	0					--	--	Space Only	38	--
--	39	Space Only	--	--			0	390			1	20	LTS - Walkway	40	L
--	41	Space Only	--	--					0	390	1	20	LTS - Walkway	42	L
		Total Connected Load (VA):			54784 VA		37071 VA		46546 VA						
		Total Connected Load (A):			469 A		309 A		400 A						

Legend:

PANEL CONNECTED LOAD TOTALS

Total Connected Load:	138400 VA	384 A

Notes:

Panel: DPB1B

Location: Hallway 100 **Volts:** 120/208 Wye **A.I.C. Rating:** Series Rated at 65K.
Supply From: MDP-B **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Frame Rating:** 400 A
Enclosure: Type 1 **MCB Rating:** 400 A

Notes:
Provide typewritten panel schedules with plastic cover. Circuit names to be exactly as listed here. Provide engraved nameplate on face of panel.

CODE	CKT	Circuit Description	Trip	PLS	A	A	B	B	C	C	PLS	Trip	Circuit Description	CKT	CODE
	1	Panel "117"	60	2	3670	3670					2	60	Panel "118"	2	
	3						3670	3670						4	
	5	Panel "119"	60	2					3670	3670	2	60	Panel "120"	6	
	7				3670	3670								8	
	9	Panel "121"	60	2			3670	3670			2	60	Panel "122"	10	
	11								3670	3670				12	
	13	Panel "123"	60	2	3670	3670					2	60	Panel "124"	14	
	15						3670	3670						16	
	17	Panel "125"	60	2					3670	3670	2	60	Panel "126"	18	
	19				3670	3670								20	
	21	Panel "127"	60	2			3670	3670			2	60	Panel "128"	22	
	23								3670	3670				24	
	25	Panel "129"	60	2	3670	3670					2	60	Panel "130"	26	
	27						3670	3670						28	
	29	Panel "131"	60	2					3670	915	2	20	DSI-1/DSO-1	30	
	31				3670	915								32	
--	33	Space Only	--	--			0	0			--	--	Space Only	34	--
--	35	Space Only	--	--					0	0	--	--	Space Only	36	--
--	37	Space Only	--	--	0	0					--	--	Space Only	38	--
--	39	Space Only	--	--			0	1000			2	30	EWH-1	40	
--	41	Space Only	--	--					0	1000				42	
		Total Connected Load (VA):			41285 VA		37505 VA		34750 VA						
		Total Connected Load (A):			348 A		316 A		290 A						

Legend:

PANEL CONNECTED LOAD TOTALS

Total Connected Load:	113536 VA	315 A

Notes:

Panel: DPB2A

Location: Hallway 200 **Volts:** 120/208 Wye **A.I.C. Rating:** Series Rated at 65K.
Supply From: MDP-B **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Frame Rating:** 400 A
Enclosure: Type 1 **MCB Rating:** 400 A

Notes:
Provide typewritten panel schedules with plastic cover. Circuit names to be exactly as listed here. Provide engraved nameplate on face of panel.

CODE	CKT	Circuit Description	Trip	PLS	A	A	B	B	C	C	PLS	Trip	Circuit Description	CKT	CODE
	1	Panel "201"	60	2	3670	3670					2	60	Panel "202"	2	
	3						3670	3670						4	
	5	Panel "203"	60	2					3670	3670	2	60	Panel "204"	6	
	7				3670	3670								8	
	9	Panel "205"	60	2			3670	3670			2	60	Panel "206"	10	
	11								3670	3670				12	
	13	Panel "207"	60	2	3670	3670					2	60	Panel "208"	14	
	15						3670	3670						16	
	17	Panel "209"	60	2					3670	3670	2	60	Panel "210"	18	
	19				3670	3670								20	
	21	Panel "211"	60	2			3670	3670			2	60	Panel "212"	22	
	23								3670	3670				24	
	25	Panel "213"	60	2	3670	3670					2	60	Panel "214"	26	
	27						3670	3670						28	
	29	Panel "215"	60	2					3670	3670	2	60	Panel "216"	30	
	31				3670	3670								32	
	33	Spare	20	1			0	0			1	20	Spare	34	
L	35	LTS - Walkway	20	1					390	0	1	20	Spare	36	
L	37	LTS - Walkway	20	1	390	0					1	20	Spare	38	
	39	LTS - Hall	20	1			158	1000			2	30	EWH-1	40	
	41	Rcps. - Hall	20	1					360	1000				42	
		Total Connected Load (VA):			44411 VA		37663 VA		38237 VA						
		Total Connected Load (A):			371 A		314 A		319 A						

Legend:

PANEL CONNECTED LOAD TOTALS

Total Connected Load:	120308 VA	334 A

Notes:

Panel: DPB2B

Location: Hallway 200 **Volts:** 120/208 Wye **A.I.C. Rating:** Series Rated at 65K.
Supply From: MDP-B **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Frame Rating:** 400 A
Enclosure: Type 1 **MCB Rating:** 400 A

Notes:
Provide typewritten panel schedules with plastic cover. Circuit names to be exactly as listed here. Provide engraved nameplate on face of panel.

CODE	CKT	Circuit Description	Trip	PLS	A	A	B	B	C	C	PLS	Trip	Circuit Description	CKT	CODE
	1	Panel "232"	60	2	3670	3670					2	60	Panel "231"	2	
	3						3670	3670						4	
	5	Panel "230"	60	2					3670	3670	2	60	Panel "229"	6	
	7				3670	3670								8	
	9	Panel "228"	60	2			3670	3670			2	60	Panel "227"	10	
	11								3670	3670				12	
	13	Panel "226"	60	2	3670	3670					2	60	Panel "225"	14	
	15						3670	3670						16	
	17	Panel "224"	60	2					3670	3670	2	60	Panel "223"	18	
	19				3670	3670								20	
	21	Panel "222"	60	2			3670	3670			2	60	Panel "221"	22	
	23								3670	3670				24	
	25	Panel "220"	60	2	3670	3670					2	60	Panel "219"	26	
	27						3670	3670						28	
	29	Panel "218"	60	2					3670	3670	2	60	Panel "217"	30	
	31				3670	3670								32	
--	33	Space Only	--	--			0	0			--	--	Space Only	34	--
--	35	Space Only	--	--					0	0	--	--	Space Only	36	--
--	37	Space Only	--	--	0	0					--	--	Space Only	38	--
--	39	Space Only	--	--			0	1000			2	30	EWH-1	40	
--	41	Space Only	--	--					0	1000				42	
		Total Connected Load (VA):			44040 VA		37505 VA		37505 VA						
		Total Connected Load (A):			367 A		313 A		313 A						

Legend:

PANEL CONNECTED LOAD TOTALS

Total Connected Load:	119046 VA	330 A

Notes:

Panel: DPB3A

Location: Hallway 300 **Volts:** 120/208 Wye **A.I.C. Rating:** Series Rated at 65K.
Supply From: MDP-B **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Frame Rating:** 400 A
Enclosure: Type 1 **MCB Rating:** 400 A

Notes:
Provide typewritten panel schedules with plastic cover. Circuit names to be exactly as listed here. Provide engraved nameplate on face of panel.

CODE	CKT	Circuit Description	Trip	PLS	A	A	B	B	C	C	PLS	Trip	Circuit Description	CKT	CODE
	1	Panel "301"	60	2	3670	3670					2	60	Panel "302"	2	
	3						3670	3670						4	
	5	Panel "303"	60	2					3670	3670	2	60	Panel "304"	6	
	7				3670	3670								8	
	9	Panel "305"	60	2			3670	3670			2	60	Panel "306"	10	
	11								3670	3670				12	
	13	Panel "307"	60	2	3670	3670					2	60	Panel "308"	14	
	15						3670	3670						16	
	17	Panel "309"	60	2					3670	3670	2	60	Panel "310"	18	
	19				3670	3670								20	
	21	Panel "311"	60	2			3670	3670			2	60	Panel "312"	22	
	23								3670	3670				24	
	25	Panel "313"	60	2	3670	3670					2	60	Panel "314"	26	
	27						3670	3670						28	
	29	Panel "315"	60	2					3670	3670	2	60	Panel "316"	30	
	31				3670	3670								32	
--	33	Space Only	--	--			0	0			--	--	Space Only	34	--
L	35	LTS - Stairs, Walkway	20	1					430	0	--	--	Space Only	36	--
L	37	LTS - Stairs, Walkway	20	1	470	0					--	--	Space Only	38	--
	39	LTS - Hall	20	1			158	1000			2	30	EWH-1	40	
	41	Rcps. - Hall	20	1					360	1000				42	
		Total Connected Load (VA):			44487 VA		37663 VA		38276 VA						
		Total Connected Load (A):			372 A		314 A		320 A						

Legend:

PANEL CONNECTED LOAD TOTALS

Total Connected Load:	120422 VA	334 A

Notes:

Panel: DPB3B

Location: Hallway 300 **Volts:** 120/208 Wye **A.I.C. Rating:** Series Rated at 65K.
Supply From: MDP-B **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Frame Rating:** 400 A
Enclosure: Type 1 **MCB Rating:** 400 A

Notes:
Provide typewritten panel schedules with plastic cover. Circuit names to be exactly as listed here. Provide engraved nameplate on face of panel.

CODE	CKT	Circuit Description	Trip	PLS	A	A	B	B	C	C	PLS	Trip	Circuit Description	CKT	CODE
	1	Panel "332"	60	2	3670	3670					2	60	Panel "331"	2	
	3						3670	3670						4	
	5	Panel "330"	60	2					3670	3670	2	60	Panel "329"	6	
	7				3670	3670								8	
	9	Panel "328"	60	2			3670	3670			2	60	Panel "327"	10	
	11								3670	3670				12	
	13	Panel "326"	60	2	3670	3670					2	60	Panel "325"	14	
	15						3670	3670						16	
	17	Panel "324"	60	2					3670	3670	2	60	Panel "323"	18	
	19				3670	3670								20	
	21	Panel "322"	60	2			3670	3670			2	60	Panel "321"	22	
	23								3670	3670				24	
	25	Panel "320"	60	2	3670	3670					2	60	Panel "319"	26	
	27						3670	3670						28	
	29	Panel "318"	60	2					3670	3670	2	60	Panel "317"	30	
	31				3670	3670								32	
--	33	Space Only	--	--			0	0			--	--	Space Only	34	--
--	35	Space Only	--	--					0	0	--	--	Space Only	36	--
--	37	Space Only	--	--	0	0					--	--	Space Only	38	--
--	39	Space Only	--	--			0	1000			2	30	EWH-1	40	
--	41	Space Only	--	--					0	1000				42	
		Total Connected Load (VA):			44040 VA		37505 VA		37505 VA						
		Total Connected Load (A):			367 A		313 A		313 A						

Legend:

PANEL CONNECTED LOAD TOTALS

Total Connected Load:	119046 VA	330 A

Notes:

Revisions

#	REVISION	DATE

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)

400 GALLERIA PARKWAY
SUITE 1140
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09/03/21

DRAWN:	JLH
CHECKED:	GWE
JOB No.	21205
DATE:	09-03-21

E-4.2

PANEL SCHEDULES

PANEL SCHEDULE CODE LEGEND

F - PROVIDE RED PAD LOCK DEVICE.
G - PROVIDE GFCI RATED BREAKER.
K - PROVIDE LOCKING DEVICE ON BREAKER.
L - RUN CIRCUIT THRU LIHTING CONTACTOR.

Panel: LLA

Location: Hall 103 **Supply From:** DPA1A **Mounting:** Recessed **Enclosure:** NEMA 1
Volts: 120/208 Single **Phases:** 1 **Wires:** 3
A.I.C. Rating: Series Rated at 22K. **Mains Type:** MLO **Frame Rating:** 125 A **MLO Rating:** 125 A (1)

Notes:
Provide typewritten panel schedules with plastic cover. Circuit names to be exactly as listed here. Provide engraved nameplate on face of panel.

CODE	CKT	Circuit Description	Trip	PLS	A	A	B	B	PLS	Trip	Circuit Description	CKT	CODE
	1	LTS - Office Area	20	1	565	540			1	20	Rcps. - Office #106	2	
	3	Spare	20	1			0	720	1	20	Rcps. - Office #106	4	
	5	Spare	20	1	0	720			1	20	Rcps. - Office #105	6	
	7	Spare	20	1			0	1080	1	20	Rcps. - Lobby	8	
	9	Spare	20	1	0	360			1	20	Rcps. - Hall	10	
	11	Spare	20	1			0	540	1	20	Rcps. - Office #102	12	
	13	Spare	20	1	0	360			1	20	Rcps. - Office #102	14	
	15	Spare	20	1			0	180	1	20	Rcps. - R.R.	16	
	17	Spare	20	1	0	0			1	20	Spare	18	
	19	Spare	20	1			0	0	1	20	Spare	20	
	21	Spare	20	1	0	0			1	20	Spare	22	
	23	Spare	20	1			0	0	1	20	Spare	24	
		Total Connected Load (VA):			2544 VA		2520 VA						
		Total Connected Load (A):			24 A		24 A						

Legend:

PANEL CONNECTED LOAD TOTALS

Total Connected Load:	5064 VA	24 A

Notes:

Panel: LLB

Location: Room 334 **Supply From:** DPB1A **Mounting:** Recessed **Enclosure:** NEMA 1
Volts: 120/208 Single **Phases:** 1 **Wires:** 3
A.I.C. Rating: Series Rated at 22K. **Mains Type:** MLO **Frame Rating:** 225 A **MLO Rating:** 225 A (1)

Notes:
Provide typewritten panel schedules with plastic cover. Circuit names to be exactly as listed here. Provide engraved nameplate on face of panel.

CODE	CKT	Circuit Description	Trip	PLS	A	A	B	B	PLS	Trip	Circuit Description	CKT	CODE
	1	LTS - Exercise, Laundry, Hall	20	1	308	720			1	20	Rcps. - Hall	2	
	3	Rcps. - Exercise	20	1			540	1200	1	20	Washer	4	
	5	Rcps. - Exercise (Equip)	20	1	180	1200			1	20	Washer	6	
	7	Rcps. - Exercise (Equip)	20	1			180	1200	1	20	Washer	8	
	9	Rcps. - Exercise (Equip)	20	1	180	1200			1	20	Washer	10	
	11	Rcps. - Exercise (Equip)	20	1			180	1200	1	20	Washer	12	
	13	Rcps. - Exercise (Equip)	20	1	180	2000			2	30	Dryer	14	
	15	Rcps. - Exercise PTAC	20	2			1173	2000				16	
	17				1173	2000			2	30	Dryer	18	
	19	Elevator Mach Rm.	20	1			398	2000				20	
	21	Elevator Shaft	20	1	451	2000			2	30	Dryer	22	
	23	Elevator Car	20	1			750	2000				24	
	25	Elev Shaft Sump Pump	20	1	180	2000			2	30	Dryer	26	
	27	Spare	20	1			0	2000				28	
	29	Spare	20	1	0	2000			2	30	Dryer	30	
	31	Spare	20	1			0	2000				32	
	33	Spare	20	1	0	1173			2	20	Rcps. - Laundry PTAC	34	
	35	Rcps. - Water Heater	20	1			900	1173				36	
	37	Rcps. - Water Heater	20	1	900	0			1	20	Spare	38	
	39	Rcps. - Water Heater	20	1			900	0	1	20	Spare	40	
	41	Recirc Pump	20	1	500	0			1	20	Spare	42	
		Total Connected Load (VA):			18345 VA		19794 VA						
		Total Connected Load (A):			176 A		188 A						

Legend:

PANEL CONNECTED LOAD TOTALS

Total Connected Load:	38139 VA	183 A

Notes:

Panel: Typ. Unit Panel

Location: Unit **Supply From:** DPA1B **Mounting:** Recessed **Enclosure:** NEMA 1
Volts: 120/208 Single **Phases:** 1 **Wires:** 3
A.I.C. Rating: Series Rated at 22K. **Mains Type:** MLO **Frame Rating:** 225 A **MCB Rating:** 225 A

Notes:

CODE	CKT	Circuit Description	Trip	PLS	A	A	B	B	PLS	Trip	Circuit Description	CKT	CODE
A	1	Lights	20	1	45	540			1	20	Rcps. - Living/Bedroom	2	A
A	3	Rcps. - Kit. Counter & Hood	20	1			180	1200	1	20	Rcps. - Refrigerator	4	A
A	5	Rcps. - Kit. Counter	20	1	180	2400			1	30	Cooktop	6	A
--	7	Space Only	--	--			0	0	--	--	Space Only	8	--
--	9	Space Only	--	--	0	1173			2	15	PTAC	10	
--	11	Space Only	--	--			0	1173				12	
		Total Connected Load (VA):			4336 VA		2553 VA						
		Total Connected Load (A):			39 A		25 A						

Legend:

PANEL CONNECTED LOAD TOTALS

Total Connected Load:	6889 VA	33 A

Notes:

Panel: MDP-A

Location: Hallway 107 **Supply From:** Utility **Mounting:** Surface **Enclosure:** Type 1
Volts: 120/208 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: Series Rated at 65K. **Mains Type:** MCB **Frame Rating:** 1200 A **MCB Rating:** 1200 A

Notes:
Provide typewritten panel schedules with plastic cover. Circuit names to be exactly as listed here. Provide engraved nameplate on face of panel.

CODE	CKT	Circuit Description	Trip	PLS	A	A	B	B	C	C	PLS	Trip	Circuit Description	CKT	CODE
	1				46177	41270								2	
	3	Panel "DPA1A"	400	3			40495	39071			3	400	Panel "DPA1B"	4	
	5								38235	33768				6	
	7				40712	40370								8	
	9	Panel "DPA2A"	400	3			37658	37505			3	400	Panel "DPA2B"	10	
	11								34539	33835				12	
	13				40788	40370								14	
	15	Panel "DPA3A"	400	3			37658	37505			3	400	Panel "DPA3B"	16	
	17								34616	33835				18	
--	19	Space Only	--	--	0	7133								20	
--	21	Space Only	--	--			0	7133			3	100	Elevator	22	
--	23	Space Only	--	--					0	7133				24	
--	25	Space Only	--	--	0	0					--	--	Shunt Trip Device	26	--
--	27	Space Only	--	--			0	0			--	--	Space Only	28	--
--	29	Space Only	--	--					0	0	--	--	Space Only	30	--
		Total Connected Load (VA):			256820 VA		237018 VA		215958 VA						
		Total Connected Load (A):			2167 A		2002 A		1800 A						

Legend:

PANEL CONNECTED LOAD TOTALS

Total Connected Load:	709781 VA	1970 A

Notes:

Panel: MDP-B

Location: Hallway 100 **Supply From:** Utility **Mounting:** Surface **Enclosure:** Type 1
Volts: 120/208 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: Series Rated at 65K. **Mains Type:** MCB **Frame Rating:** 1200 A **MCB Rating:** 1200 A

Notes:
Provide typewritten panel schedules with plastic cover. Circuit names to be exactly as listed here. Provide engraved nameplate on face of panel.

CODE	CKT	Circuit Description	Trip	PLS	A	A	B	B	C	C	PLS	Trip	Circuit Description	CKT	CODE
	1				40370	41285								2	
	3	Panel "DPB1A"	400	3			55416	37505			3	400	Panel "DPB1B"	4	
	5								53195	34750				6	
	7				44411	44040								8	
	9	Panel "DPB2A"	400	3			37663	37505			3	400	Panel "DPB2B"	10	
	11								38237	37505				12	
	13				44487	44040								14	
	15	panel "DPB3A"	400	3			37663	37505			3	400	Panel "DPB3B"	16	
	17								38276	37505				18	
--	19	Space Only	--	--	0	7133								20	
--	21	Space Only	--	--			0	7133			3	100	Elevator	22	
--	23	Space Only	--	--					0	7133				24	
--	25	Space Only	--	--	0	0					--	--	Shunt Trip Device	26	--
--	27	Space Only	--	--			0	0			--	--	Space Only	28	--
--	29	Space Only	--	--					0	0	--	--	Space Only	30	--
		Total Connected Load (VA):			265765 VA		250384 VA		246595 VA						
		Total Connected Load (A):			2220 A		2091 A		2055 A						

Legend:

PANEL CONNECTED LOAD TOTALS

Total Connected Load:	762731 VA	2117 A

Notes:

(1)

Voltage Drop Calculations in Feeders and Branch Circuits

Branch circuit calculations, worst case:
Lighting circuit DPB1A-42
Distance from panel to furthest point on circuit: 220 feet
Load on circuit: 390 VA or 3.25 A
Wire size per note 7 under Wire/Conduit on sheet E-0.1: #10
Conductor type: copper
Voltage: 120v
Voltage drop: 2.52 volts
Actual Voltage drop percent: 2.1%

Feeder calculation, worst case:
Feeder: DPA3B to MDP-A
Distance: 45 feet
Load on feeder: 111,706 VA or 310 A
Wire size per Riser Diagram: 2 sets of #3/0
Conductor type: Copper
Voltage: 208 volt three phase
Voltage Drop: 1.14V
Voltage Drop percent: .55%

Feeder: Panel 323 to DPA3B
Distance: 202 feet
Load on feeder: 6889 VA or 33 A
Wire size per Riser Diagram:#6
Conductor Type: copper
Beginning Voltage at Panel DPA3B per above: 206.86 volt single phase
Voltage Drop from DPA3B to Panel 323: 5.255173v
Voltage Drop percent from DPA3B to Panel 323: 2.5404
Accumulated Voltage Drop Percent from MDP-A to Panel 323: 3.09%

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

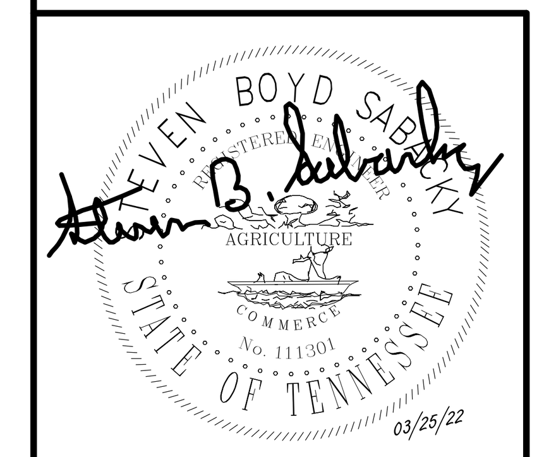
at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)
400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

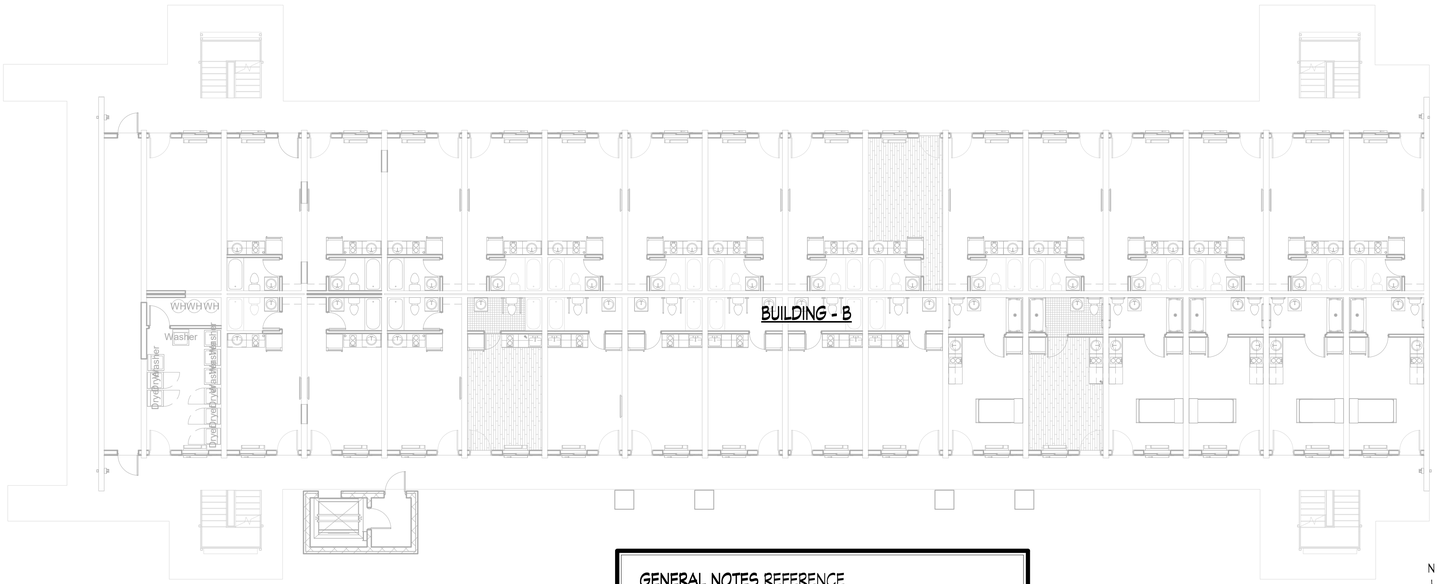
March Adams & Associates
Consulting Engineers
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675



DRAWN:	JLH
CHECKED:	GWE
JOB No.	21205
DATE:	09-03-21

E-4.3

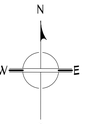
PANEL SCHEDULES

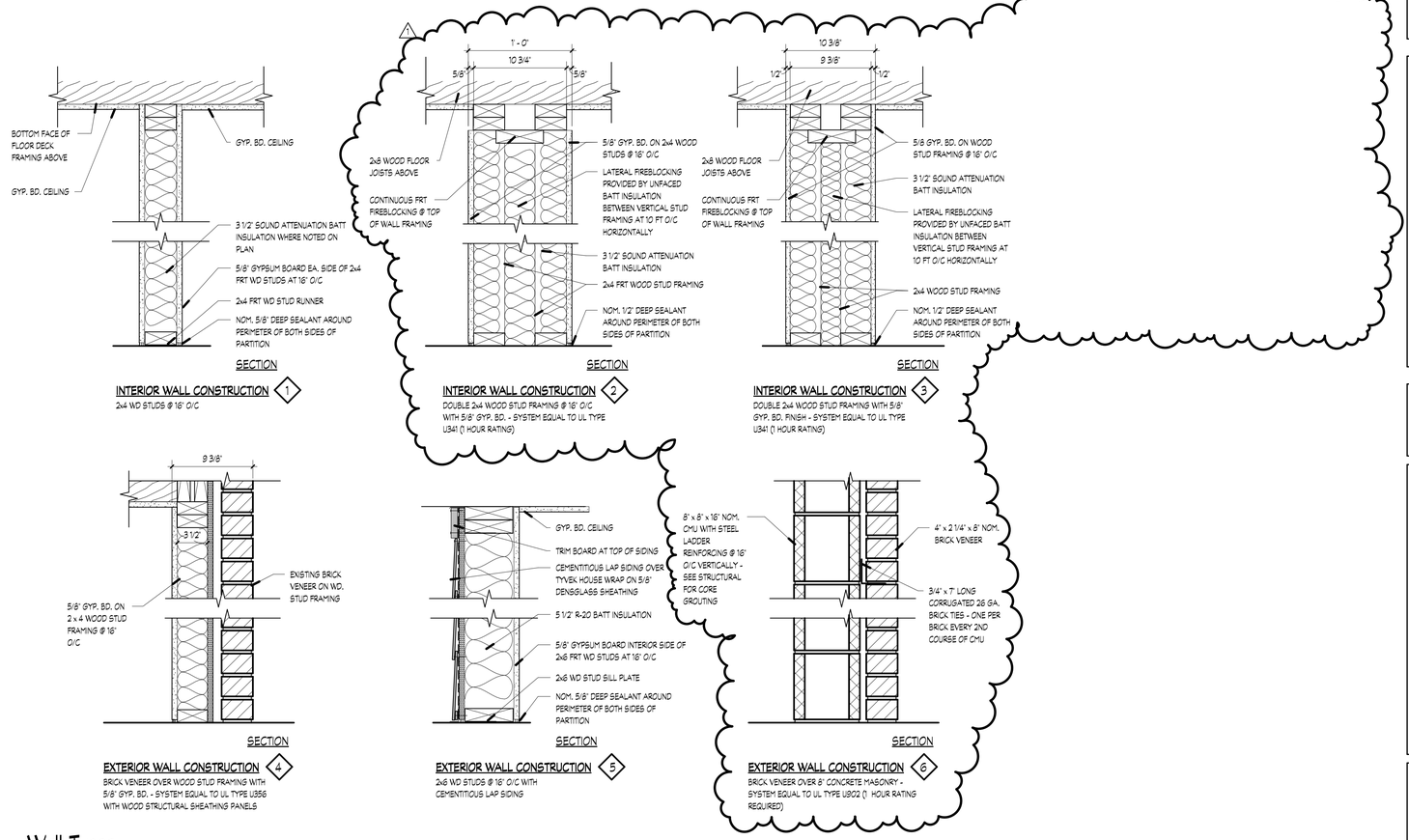


1 Building Key Plan
3/32" = 1'-0"

GENERAL NOTES REFERENCE

1. UNLESS NOTED OTHERWISE ON THIS AND FOLLOWING SHEETS, ALL CONSTRUCTION DETAILS AND NOTES PERTAINING TO SIMILAR DESIGN AND CONSTRUCTION COMPONENTS ARE REPRESENTED ON DRAWING SHEETS FOR BUILDING 'A'.





2 Wall Types
1 1/2" = 1'-0"

BUILDING CODE SUMMARY

PROJECT INFORMATION

NAME OF PROJECT:	HOME 1 APARTMENTS KNOXVILLE
ADDRESS:	ADDRESS: 1500 NORTH CHERRY STREET, KNOXVILLE, TENNESSEE 37917
PROPOSED USE:	PROPOSED USE: RESIDENTIAL APARTMENT
OWNER / CONTACT PERSON:	CONTRACTOR / CONTACT PERSON: MARC MAKWANA: (269) 277-9131
GOVERNING CODES:	2009 ICC / ANSI A117.1 2018 INTERNATIONAL ENERGY CONSERVATION CODE 2018 INTERNATIONAL BUILDING CODE 2018 INTERNATIONAL EXISTING BUILDING CODE 2017 NATIONAL ELECTRICAL CODE 2018 INTERNATIONAL FUEL GAS CODE 2018 INTERNATIONAL MECHANICAL CODE 2018 INTERNATIONAL PLUMBING CODE 2018 INTERNATIONAL PROPERTY MAINTENANCE CODE KNOXVILLE CODE OF ORDINANCES: CHAPTER 6 BUILDINGS AND BUILDING REGULATIONS, ARTICLE I, SECTION 6-5. FIRE DISTRICT 2018 INTERNATIONAL FIRE CODE

PER 2018 IEBC SECTION 301.3 ALTERATION, ADDITION OR CHANGE OF OCCUPANCY:

ALL WORK ON THIS PROJECT COMPLIES WITH METHODS LISTED IN SECTION 301.3.1 PRESCRIPTIVE COMPLIANCE AND SHALL MEET REQUIREMENTS SET FORTH IN THIS SECTION AND ASSOCIATED 2018 IBC STANDARDS.

DESIGNER OF RECORD

DESIGNER	NAME	LICENSE #	TELEPHONE #
ARCHITECTURAL	EDMUND G. GARBEE III	101243	423-364-2830
ELECTRICAL	STEVEN BOYD SABACKY	111301	423-698-6675
PLUMBING	C. JEFFERY WESTBROOK	110589	423-698-6675
MECHANICAL	C. JEFFERY WESTBROOK	110589	423-698-6675
STRUCTURAL	STEVEN R. SANDIDGE		423-991-1474
CIVIL / LANDSCAPE			
SPRINKLER / STANDPIPE	C. JEFFERY WESTBROOK	110589	423-698-6675

BUILDING DATA:

OCCUPANCY	R-2		
SEPARATED OCCUPANCY	Yes		
CONSTRUCTION TYPE	Type VA		
SPRINKLERED	Yes		
ACTUAL NO. OF STORIES	3	ALLOWED NO. STORIES	4
ACTUAL BUILDING HEIGHT	36'-0"	ALLOWED BUILDING HEIGHT	70'
MEZZANINE	No		
HIGH RISE	No		

ALLOWABLE BUILDING AREA:
EQUATION 5-2: $A_a = [A_t + (NS \times I_f)] \times S_f$
$A_a = [36{,}000 + (12{,}000 \times 0.72)] \times 3 = 44{,}460$ SF **133,920 SF** ALLOWABLE BUILDING AREA

BUILDING FRONTAGE WEIGHTED AVERAGE:
EQUATION 5-4: $W = (L_1 \times w_1 + L_2 \times w_2 + L_3 \times w_3 \ldots)/F$ F = 621.75
W = 29.75

ACTUAL GROSS BUILDING AREA:

GROUND FLOOR	11,020 SF
SECOND FLOOR	12,370 SF
THIRD FLOOR	12,370 SF
TOTAL	**35,760 SF** ACTUAL GROSS BUILDING AREA

BUILDING FRONTAGE INCREASE:
EQUATION 5-5: $I_f = [F/P - 0.25]W/30$ F = 621.75 P = 637.25 W = 29.75
$I_f = [621.75 / 637.25 - 0.25]29.75 / 30$
$I_f = [0.98 - 0.25]0.99$
$I_f = 0.72$

FIRE RESISTANCE RATINGS:

FIRE RESISTANCE RATINGS OF BUILDING ELEMENTS	REQUIRED HOURLY
PRIMARY STRUCTURAL FRAME	1
BEARING WALLS	
EXTERIOR	1
INTERIOR	1
NONBEARING WALLS AND PARTITIONS	
EXTERIOR	0 - SEPARATION DISTANCE > 30 FT
NONBEARING WALLS AND PARTITIONS	
INTERIOR	0
FLOOR CONST. AND ASSOC. SECONDARY MEMBERS	1
ROOF CONST. AND ASSOC. SECONDARY MEMBERS	1
DWELLING UNIT SEPARATION	1
EXIT ACCESS CORRIDORS	0.5
ELEVATOR LOBBY	N / A
CEILING-FLOOR ASSEMBLY	1

LIFE SAFETY SYSTEM:

EMERGENCY LIGHTING AND EXIT SIGNS	YES
FIRE ALARM AND SMOKE DETECTOR SYSTEMS	YES
PANIC HARDWARE	YES

EXIT REQUIREMENTS:

DEAD END LIMIT - MAXIMUM CONDITION ALLOWED:	50' (SECTION 1020.4, EXCEPTION #2)
TRAVEL DISTANCE TO EXIT - MAXIMUM CONTITION ALLOWED:	250' (TABLE 1017.2)
COMMON PATH OF TRAVEL	125' (TABLE 1006.2.1)

OCCUPANCY CALCULATION

OCCUPANCY:	FLOOR	OCC. CLASS	
	1st FLOOR	BUSINESS (B-2)	OCCUPANCY COUNT TOTAL = 1
	1st FLOOR	BUSINESS (B)	OCCUPANCY COUNT TOTAL = 10
	1st FLOOR	APARTMENT (R-2)	1 PERSON PER UNIT x 30 = 30
	2nd FLOOR	APARTMENT (R-2)	1 PERSON PER UNIT x 32 = 32
	3rd FLOOR	APARTMENT (R-2)	1 PERSON PER UNIT x 32 = 32
TOTAL OCCUPANCY:			105

EXIT WIDTH REQUIREMENTS:

	STAIR REQUIRED	STAIR PROVIDED	(BALCONY) CORRIDOR REQUIRED	CORRIDOR PROVIDED
GROUND FLOOR	N / A	N / A	N / A	N / A
SECOND FLOOR	*64 OCC. x 0.3 = 19.2"	44"	32 OCC. x 0.2 = 6.4"	44"
THIRD FLOOR	32 OCC. x 0.3 = 9.6"	44"	32 OCC. x 0.2 = 6.4"	44"

*(INCLUDES CUMULATIVE LOAD FROM 2ND AND 3RD LEVELS)

SITE PARKING DATA:

TOTAL PARKING REQUIRED:	N / A
TOTAL PARKING PROVIDED:	N / A
HANDICAP SPACES REQUIRED:	N / A
HANDICAP SPACES PROVIDED:	N / A

Garbee Architecture
PH: 423.364.2830

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

HOME 1 APARTMENTS KNOXVILLE
at
1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

1500 Cherry St. Lodge LLC
ATTN: JOHN PATEL (PRES)
400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

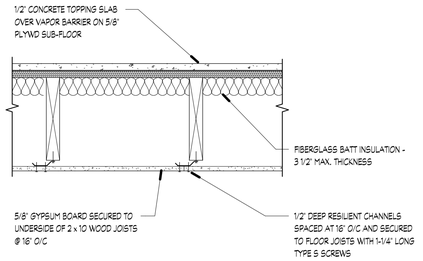
March Adams & Associates
Consulting Engineers
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

EDMUND G. GARBEE III — REGISTERED ARCHITECT — STATE OF TENNESSEE
9/03/2021

DRAWN:	57
CHECKED:	Checker
JOB No.	21-008
DATE:	September 3, 2021

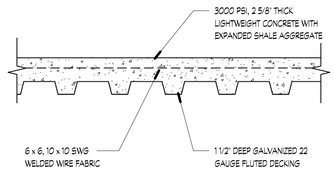
BLS-1.0

BUILDING - B
Building Code Summary and Life/Safety Plan



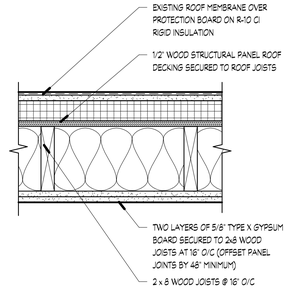
RATED FLOOR DETAIL 9

1500 PSI TOPPING SLAB OVER 0.03 IN. THICK ASPHALT FELT ON 5/8" PLYWOOD SUBFLOOR SUPPORTED BY 2x10 WOOD JOISTS @ 16" O/C WITH 5/8" GYP. BD CEILING BELOW - ASSEMBLY EQUAL TO UL TYPE MB18 SYSTEM #1 ALTERNATE CONSTRUCTION (1 HOUR RATING)



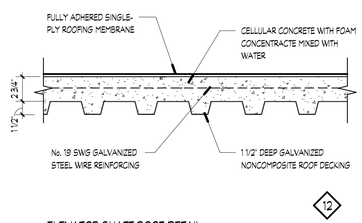
ELEVATOR TOWER STORAGE FLOOR DETAIL 10

2.5/8" THICK LIGHTWEIGHT CONCRETE, EXPANDED SHALE AGGREGATE AT 3000 PSI COMPRESSIVE STRENGTH WITH 6x6, 10 x 10 SWG WELDED WIRE FABRIC ON COMPOSITE 1 1/2" DEEP GALVANIZED 22 GAUGE FLUTED DECKING - ASSEMBLY EQUAL TO UL TYPE D925 CONSTRUCTION (1 HOUR RATING)



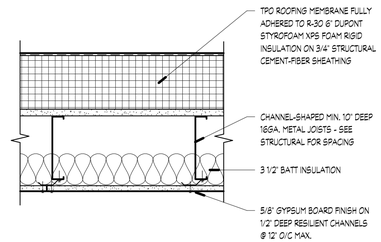
RATED ROOF DETAIL 11

PER IBC 2018 SECTION 722.6.2(1) ROOF ASSEMBLY PROVIDES 1 HOUR RATING BY USE OF INDIVIDUAL COMPONENTS MEETING THE FOLLOWING:
A: 15/32" WOOD STRUCTURAL DECKING (TOP STRUCTURAL MEMBRANE)
B: WOOD JOIST FRAMING AT 16" O/C = 10 MINUTES
C: 1 LAYER 5/8" TYPE X GYPSUM BOARD MEMBRANE = 30 MINUTES
D: 1 LAYER 5/8" TYPE X GYPSUM BOARD MEMBRANE = 30 MINUTES



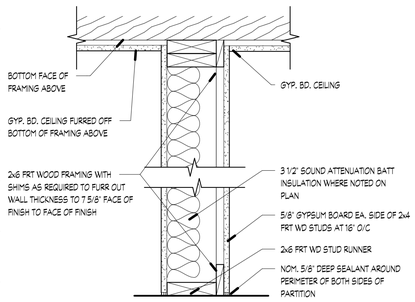
ELEVATOR SHAFT ROOF DETAIL 12

FULLY ADHERED SINGLE-PLY MEMBRANE ROOF ON 2-3/4" THICK CELLULAR CONCRETE WITH No. 19 SWG GALVANIZED STEEL WIRE REINFORCING OVER 1-1/2" DEEP GALVANIZED NONCOMPOSITE ROOF DECK - ASSEMBLY EQUAL TO UL TYPE P938 CONSTRUCTION (1 HOUR RATING)



RATED ROOF DETAIL 13

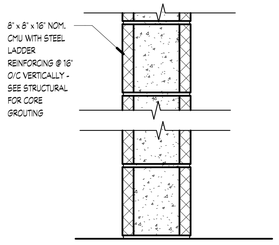
FULLY ADHERED SINGLE-PLY MEMBRANE ROOF ON R-30 6" DUPONT SYTROFOAM XPS FOAM RIGID INSULATION OVER 3/4" STRUCTURAL CEMENT-FIBER SHEATHING SUPPORTED BY 10" METAL JOISTS WITH 5/8" GYPSUM BOARD FINISH FASTENED TO JOISTS WITH 1/2" DEEP RESILIENT CHANNELS - ASSEMBLY EQUAL TO UL TYPE P562 CONSTRUCTION (1 HOUR RATING)



SECTION

INTERIOR WALL CONSTRUCTION 14

2x6 WD STUDS @ 16" O/C



SECTION

ELEVATOR SHAFT WALL CONSTRUCTION 15

8" CONCRETE MASONRY - SYSTEM EQUAL TO UL TYPE U801 (1 HOUR RATING REQUIRED)

1 Floor, Roof and Wall Assemblies

1 1/2" = 1'-0"

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)

400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

March Adams & Associates
Consulting Engineers

310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

EDMUND G. GARBEE III REGISTERED ARCHITECT 9/03/2021 STATE OF TENNESSEE

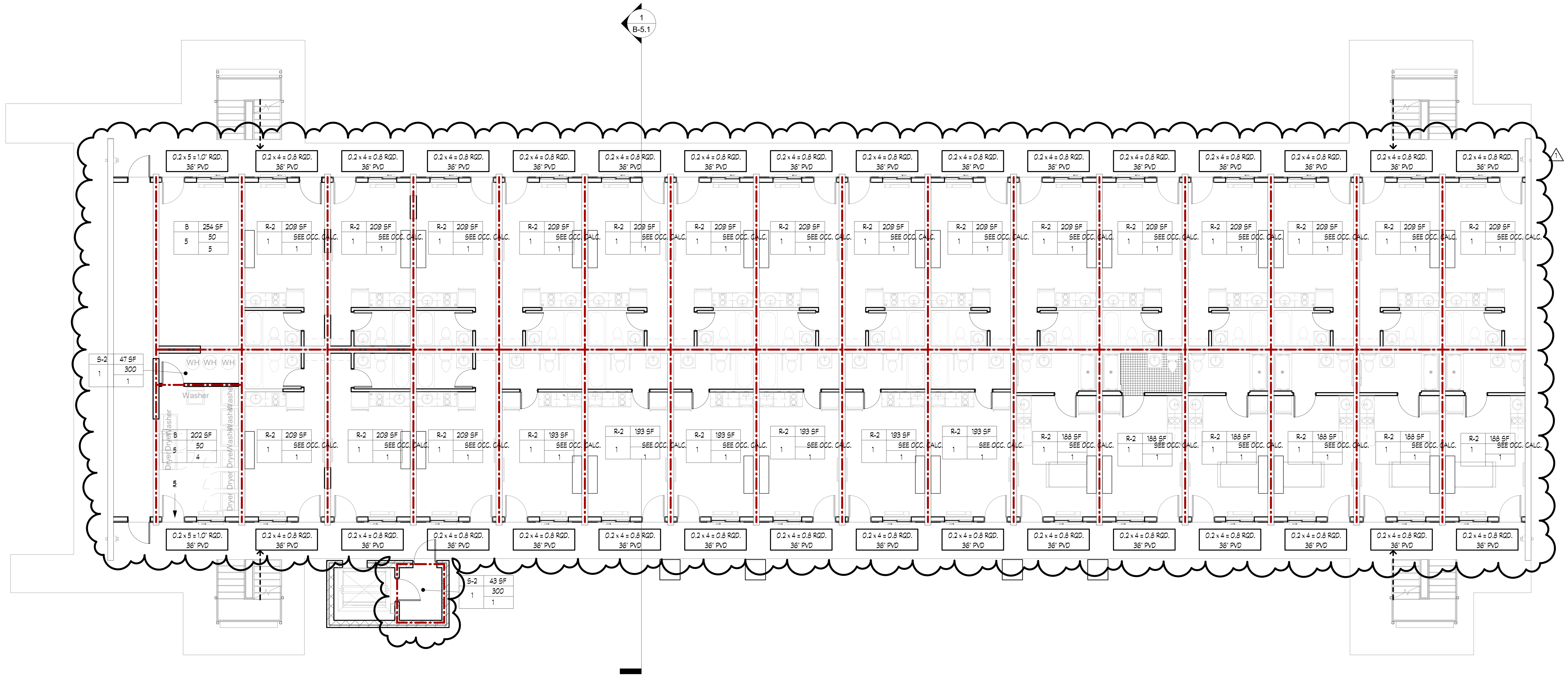
DRAWN:	Author
CHECKED:	Checker
JOB No.	21-008
DATE:	September 3, 2021

BLS-1.01

BUILDING - B

Large Scale Assembly Details

Garbee Architecture
PH: 423.364.2830



1 Level 1 Life/Safety Plan

1/8" = 1'-0"

LIFE SAFETY LEGEND

OCCUPANCY CALCULATION TAG

B	500
5	100
	5

- OCCUPANCY TYPE
- AREA SQ. FT.
- OCCUPANT LOAD FACTOR
- OCCUPANT LOAD PER ROOM
- OCCUPANTS EXITING THROUGH ROOM

PLAN SYMBOLS

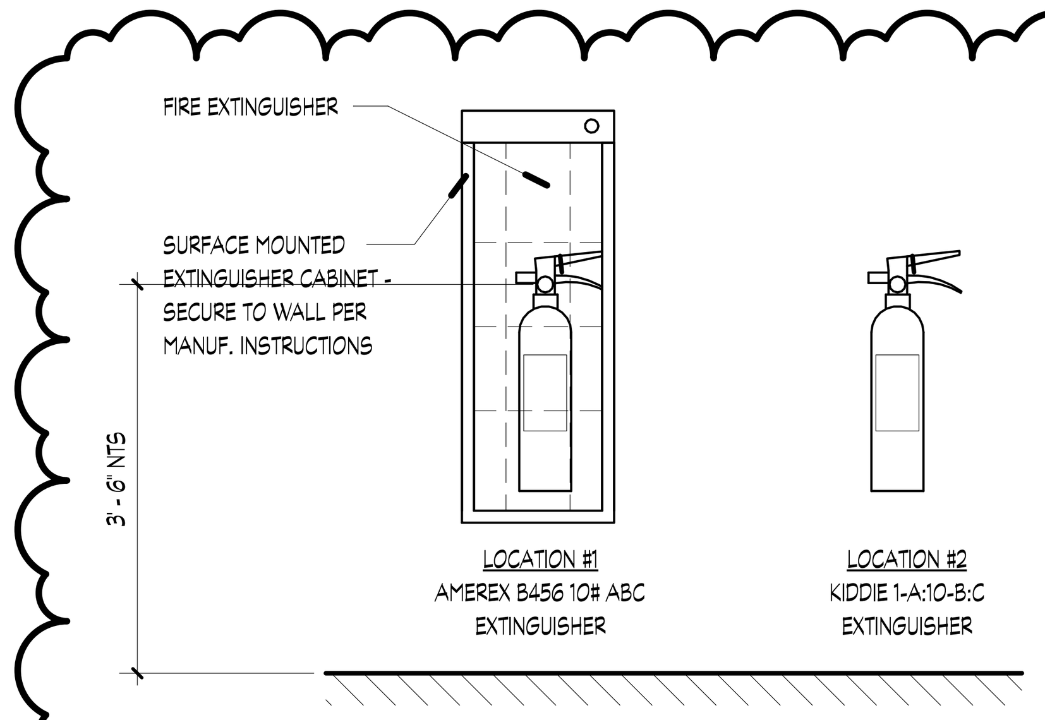
WALL MOUNTED FIRE EXTINGUISHER — FEC

18 — TOTAL OCCUPANTS EXITING INTERIOR SPACE

3 — WALL TYPE CONSTRUCTION TAG

0.2x4=0.8" RQD 36" PVD — EGRESS WIDTH PER EXIT REQUIRED / ACTUAL EGRESS WIDTH PER EXIT PROVIDED

1 HR RATED WALL CONSTRUCTION



FIRE EXTINGUISHER NOTES

EXTINGUISHER LOCATION #1

1. PROVIDE AMEREX MODEL: B456 10# ABC FIRE EXTINGUISHERS.
2. EXTERIOR BALCONY LOCATIONS AS INDICATED IN PLAN ON SHEETS ALS-1.1, ALS-1.2, ALS-1.3
3. MOUNT TO WALL WITH MEDIUM FIRETECH METAL EXTINGUISHER CABINET

EXTINGUISHER LOCATION #2

1. PROVIDE KIDDIE MODEL 1-A:10-B:C FIRE EXTINGUISHERS.
2. MOUNTED TO WALL ABOVE COUNTER ADJACENT TO KITCHEN COOKTOP AS INDICATED IN TYPICAL STUDIO UNIT DETAIL 2/A1.1
3. MOUNT PER MANUF. RECOMMENDED WALL BRACKET.

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

at

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KNOXVILLE, TN 37917

for

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MA &A
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PH: (423)698-6675

EDMUND G. GARBEE — STATE OF TENNESSEE — 9/03/2021

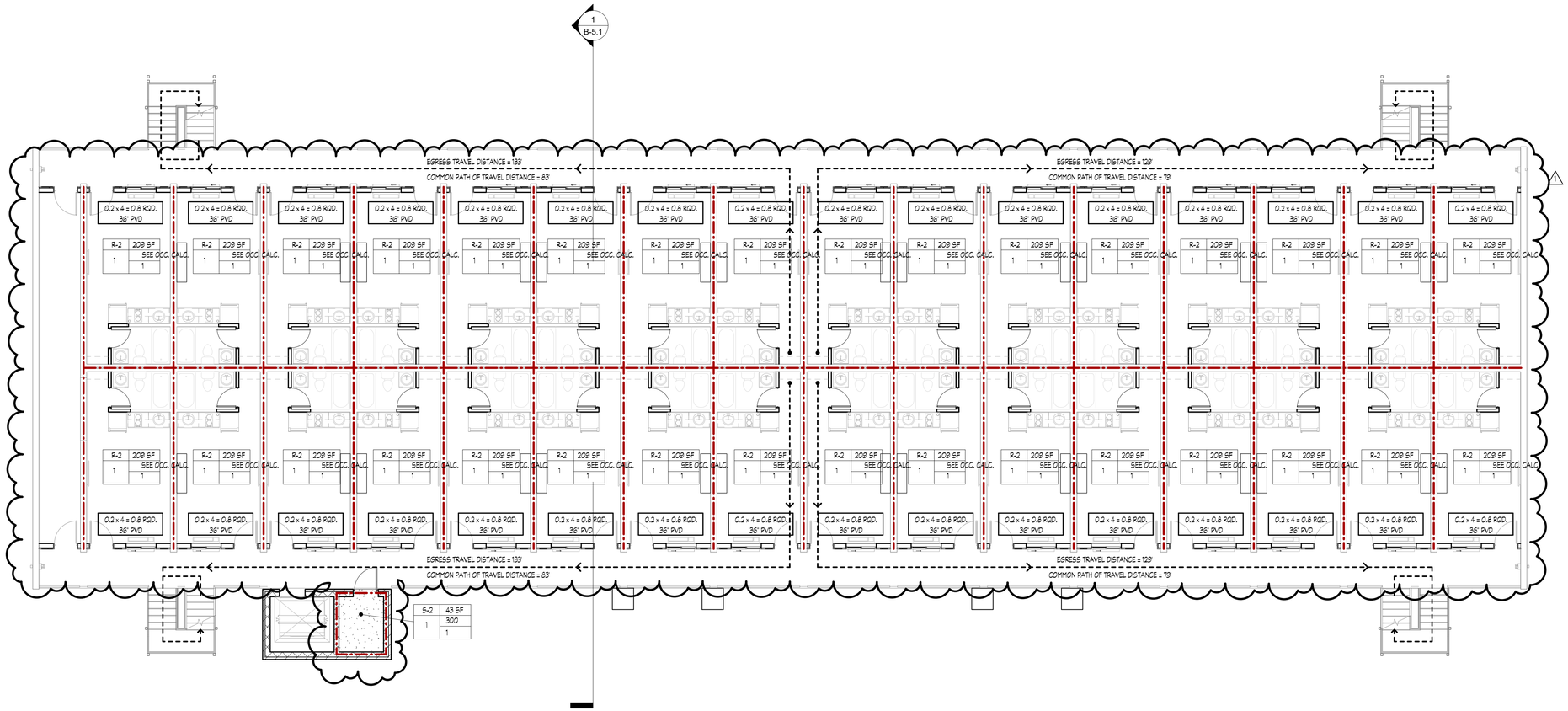
DRAWN:	58
CHECKED:	Checker
JOB No.	21-008
DATE:	September 3, 2021

BLS-1.1

BUILDING - B

Level 1 Life/Safety Plan

Garbee Architecture
PH: 423.364.2830

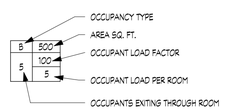


1 Level 2 Life/Safety Plan

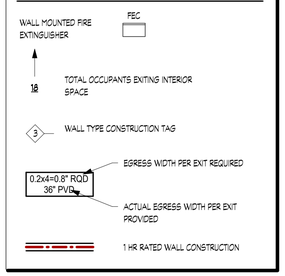
1/8" = 1'-0"

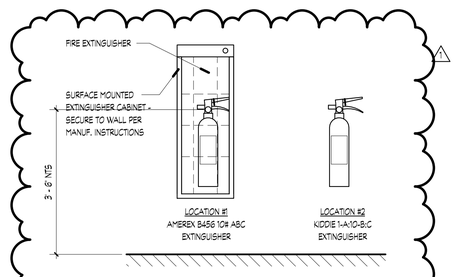
LIFE SAFETY LEGEND

OCCUPANCY CALCULATION TAG



PLAN SYMBOLS





FIRE EXTINGUISHER NOTES

EXTINGUISHER LOCATION #1

1. PROVIDE AMEREX MODEL: B456 10# ABC FIRE EXTINGUISHERS.
2. EXTERIOR BALCONY LOCATIONS AS INDICATED IN PLAN ON SHEETS ALS-1.1, ALS-1.2, ALS-1.3
3. MOUNT TO WALL WITH MEDIUM FIRETECH METAL EXTINGUISHER CABINET

EXTINGUISHER LOCATION #2

1. PROVIDE KIDDIE MODEL 1-A:10-B:C FIRE EXTINGUISHERS.
2. MOUNTED TO WALL ABOVE COUNTER ADJACENT TO KITCHEN COOKTOP AS INDICATED IN TYPICAL STUDIO UNIT DETAIL 2/A1.1
3. MOUNT PER MANUF. RECOMMENDED WALL BRACKET.

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

at

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KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)

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P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

EDMUND G. GARBEE — REGISTERED ARCHITECT — STATE OF TENNESSEE
9/03/2021

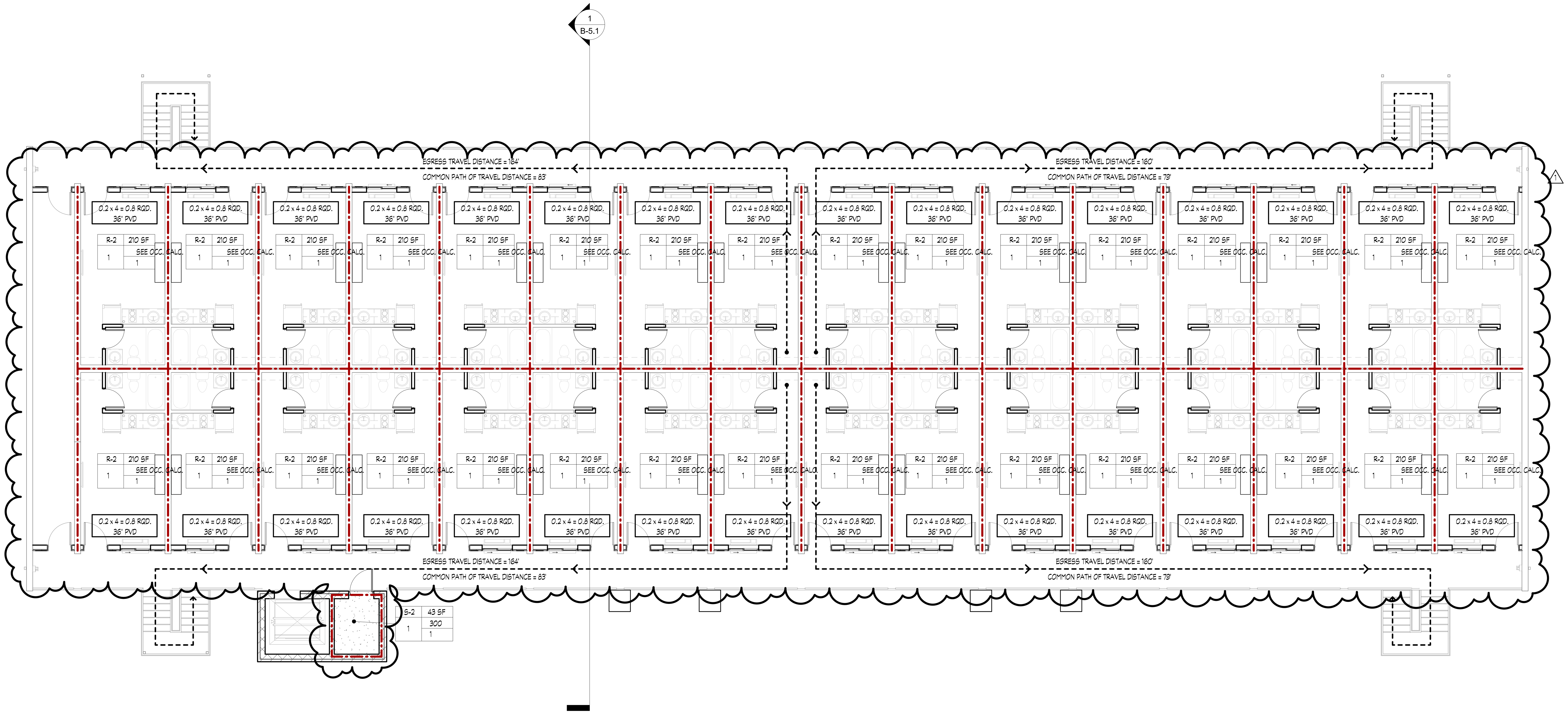
DRAWN:	59
CHECKED:	Checker
JOB No.	21-008
DATE:	September 3, 2021

BLS-1.2

BUILDING - B

Level 2 Life/Safety Plan

Garbee Architecture
PH: 423.364.2830



1 **Level 3 Life/Safety Plan**

1/8" = 1'-0"

LIFE SAFETY LEGEND

OCCUPANCY CALCULATION TAG

B	500
5	100
	5

- OCCUPANCY TYPE
- AREA SQ. FT.
- OCCUPANT LOAD FACTOR
- OCCUPANT LOAD PER ROOM
- OCCUPANTS EXITING THROUGH ROOM

PLAN SYMBOLS

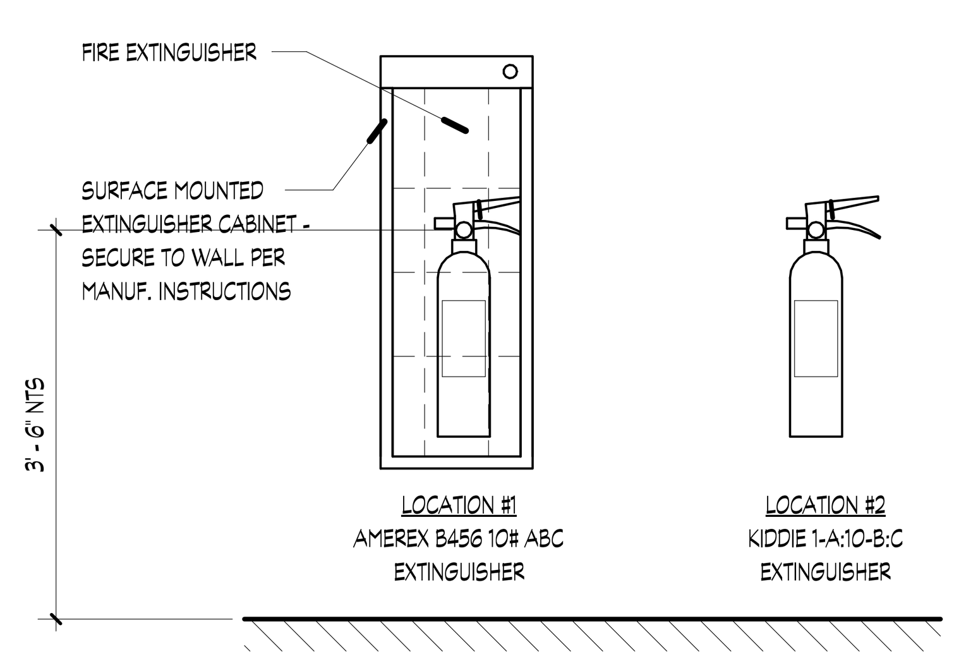
WALL MOUNTED FIRE EXTINGUISHER — FEC

18 — TOTAL OCCUPANTS EXITING INTERIOR SPACE

3 — WALL TYPE CONSTRUCTION TAG

0.2x4=0.8" RQD / 36" PVD — EGRESS WIDTH PER EXIT REQUIRED; ACTUAL EGRESS WIDTH PER EXIT PROVIDED

1 HR RATED WALL CONSTRUCTION



FIRE EXTINGUISHER NOTES

EXTINGUISHER LOCATION #1

1. PROVIDE AMEREX MODEL: B456 10# ABC FIRE EXTINGUISHERS.
2. EXTERIOR BALCONY LOCATIONS AS INDICATED IN PLAN ON SHEETS ALS-1.1, ALS-1.2, ALS-1.3
3. MOUNT TO WALL WITH MEDIUM FIRETECH METAL EXTINGUISHER CABINET

EXTINGUISHER LOCATION #2

1. PROVIDE KIDDIE MODEL 1-A:10-B:C FIRE EXTINGUISHERS.
2. MOUNTED TO WALL ABOVE COUNTER ADJACENT TO KITCHEN COOKTOP AS INDICATED IN TYPICAL STUDIO UNIT DETAIL 2/A1.1
3. MOUNT PER MANUF. RECOMMENDED WALL BRACKET.

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)
400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

MA &A
March Adams & Associates
Consulting Engineers
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

9/03/2021

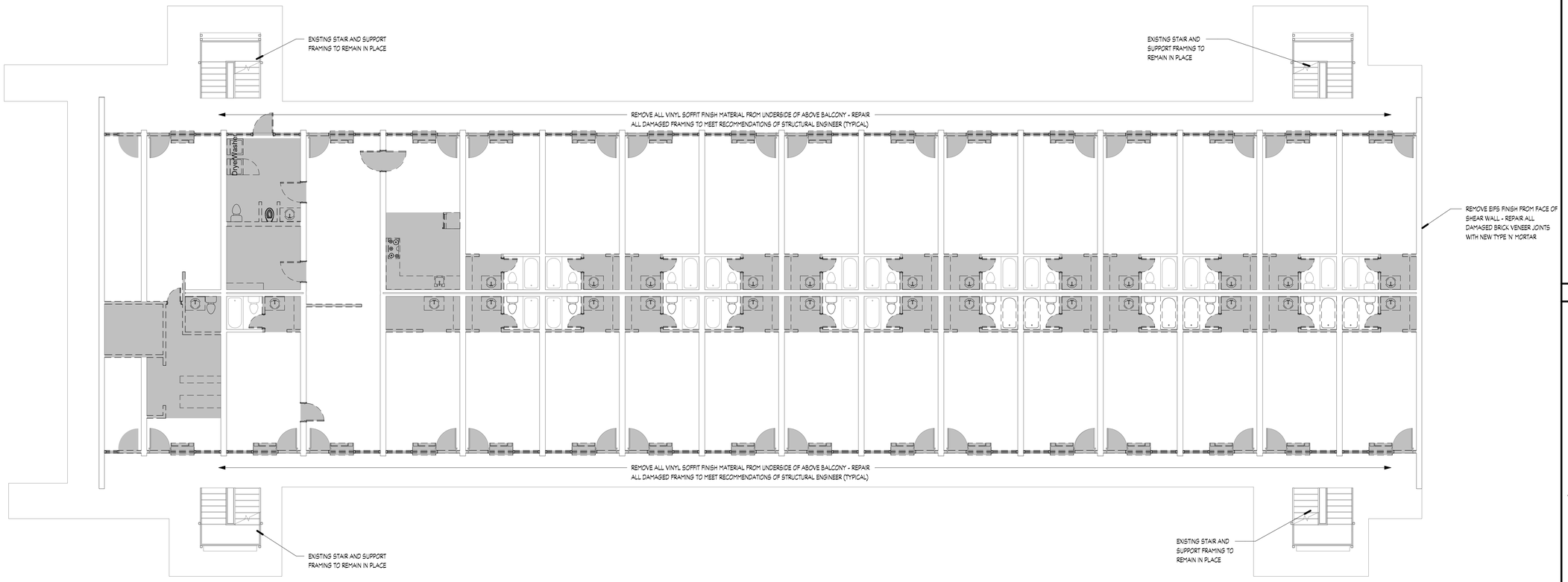
DRAWN:	60
CHECKED:	Checker
JOB No.	21-008
DATE:	September 3, 2021

BLS-1.3

BUILDING - B

Level 3 Life/Safety Plan

Garbee Architecture
PH: 423.364.2830



1 Level 1 Demolition Plan

1/8" = 1'-0"

DEMOLITION PLAN LEGEND

- SPECIFIC ITEM TO BE DEMOLISHED/REMOVED
- AREA CONTAINING DEMOLITION WORK
- DEMOLITION NOTE INDICATING SPECIFIC WORK

GENERAL DEMOLITION NOTES

1. GENERAL DEMOLITION NOTES APPLY TO THE OVERALL TENANT SPACE HOWEVER SPECIFIC NOTES MAY BE INDICATED ON THE DEMOLITION FLOOR PLAN.

2. CONTRACTOR TO LIMIT DEMOLITION TO IMMEDIATE AREA AFFECTED BY ITEM NOTED FOR DEMOLITION UNLESS NOTED OTHERWISE.

3. WHERE DEMOLITION REQUIRES EQUIPMENT TO BE REMOVED CONTRACTOR SHALL REPAIR REMAINING SURFACES (WALLS, FLOORS, ROOF STRUCTURE) TO PROVIDE A CLEAN SMOOTH SURFACE READY TO RECEIVE NEW FINISHES AS NOTED ON FINISH SCHEDULE.

4. REMOVE EXISTING LIGHTING FIXTURES THAT CONFLICT WITH NEW WALL LOCATIONS. SAVE FIXTURES FOR POSSIBLE REUSE.

5. EXISTING PLUMBING FIXTURES TO REMAIN IN PLACE UNLESS NOTED OTHERWISE.

6. WHERE EXISTING PLUMBING FIXTURES HAVE BEEN REMOVED, CAP ABANDONED LINES AND/OR REMOVE TO PROVIDE ROOM FOR NEW PLUMBING INSTALLATION.

7. ALL DOORS SHOWN ON DEMOLITION PLAN SHALL BE REMOVED AND STORED AT OWNERS DIRECTION UNLESS NOTED OTHERWISE.

8. WHERE EXISTING ELECTRICAL OUTLETS ARE LOCATED IN EXISTING ROOMS, REMOVE OUTLET COVERS AND PREPARE WALL FOR NEW FINISHES.

9. CLEAN AND REPAIR ALL EXISTING WALL SURFACES AND PREPARE EXISTING SURFACE FOR APPLICATION OF NEW FINISHES AS NOTED ON FINISH SCHEDULE.

10. REMOVE ALL EXISTING TILE AND UNDERLAYMENT IN TOILETS. PREPARE SUB-FLOOR TO RECEIVE NEW FINISHES.

11. WHERE EXISTING OPENINGS PENETRATE A WALL TO REMAIN, ALL OPENINGS ARE TO BE PATCHED WITH NEW CONSTRUCTION TO MATCH FINISHED PRODUCT.

12. WHERE IDENTIFIED ON DEMOLITION PLAN BY GREY SHADED AREA, ALL DEMOLITION WORK TO REMOVE EXISTING FINISHES, SURFACES, FIXTURES, ELECTRICAL, PLUMBING AND MECHANICAL COMPONENTS. EXISTING STRUCTURAL FRAMING TO REMAIN IN PLACE UNLESS NOTED OTHERWISE.

13. ALL INTERIOR ROOMS TO HAVE EXISTING FLOOR FINISHES REMOVED DOWN TO SUB-FLOOR - REMAINING SURFACES TO BE CLEANED AND PREPARED FOR NEW FINISH INSTALLATION.

14. WHERE DEMOLITION EXPOSES DAMAGED OR WEAKENED FRAMING, CONTRACTOR TO CONFERE WITH ARCHITECT PRIOR TO COMMENCING WITH REPLACEMENT FRAMING MATERIAL.

15. CONTRACTOR TO CONFIRM HEIGHT AND BALUSTER SPACING OF EXISTING BALCONY RAILING - ALL RAILING TO BE REMOVED WHERE HEIGHT IS LESS THAN 42" AFF AND BALUSTER SPACING IS LESS THAN 4" O/C HORIZONTAL (TYP.)

16. CONTRACTOR TO REMOVE ALL EXTERIOR LIGHTING WITH THE EXCEPTION OF FIXTURES MOUNTED ON THE EXTERIOR SHARED TENANT WALLS BETWEEN ROOMS. THESE FIXTURES TO BE CLEANED AND/OR REPAIRED AND REINSTALLED FOR CONTINUED OPERATION.

Revisions

#	REVISION	DATE

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

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Garbee Architecture
PH: 423.364.2830

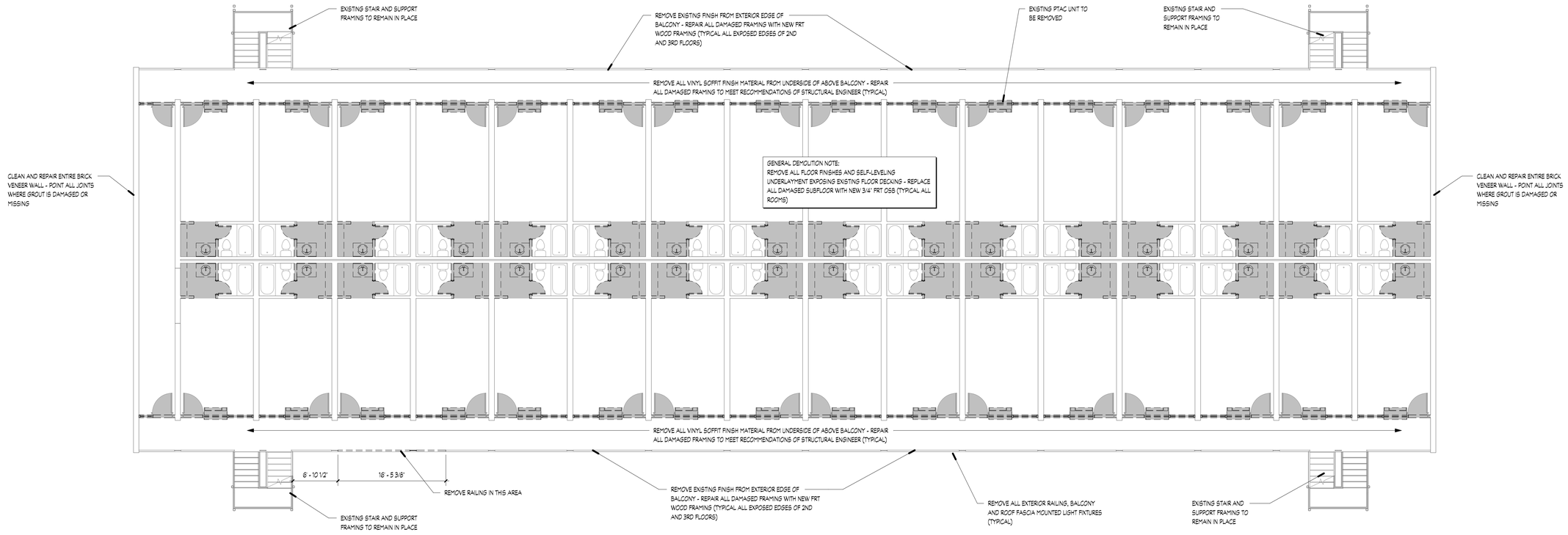
EDMUND G. GARBEE — REGISTERED ARCHITECT — 9/03/2021 — STATE OF TENNESSEE

DRAWN:	61
CHECKED:	Checker
JOB No.	21-008
DATE:	September 3, 2021

BD-1.1

BUILDING - B

Level 1 Demolition Plan



1 **Level 2 Demolition Plan**

1/8" = 1'-0"

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EDMUND G. GARBEE REGISTERED ARCHITECT 9/03/2021 STATE OF TENNESSEE

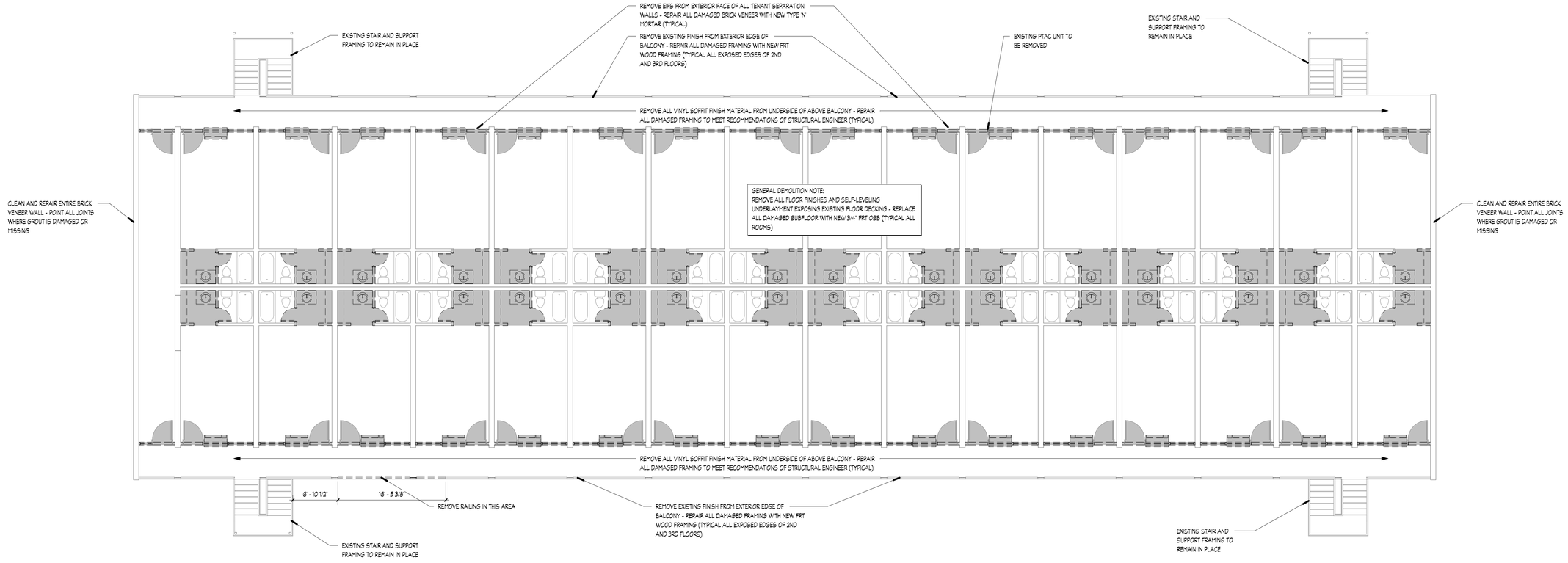
DRAWN:	62
CHECKED:	Checker
JOB No.	21-008
DATE:	September 3, 2021

BD-1.2

BUILDING - B

Level 2 Demolition Plan

Garbee Architecture
PH: 423.364.2830



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KNOXVILLE, TN 37917

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PH: (423)698-6675

Garbee Architecture
PH: 423.364.2830

EDMUND G. GARBEE — REGISTERED ARCHITECT — STATE OF TENNESSEE
9/03/2021

DRAWN:	63
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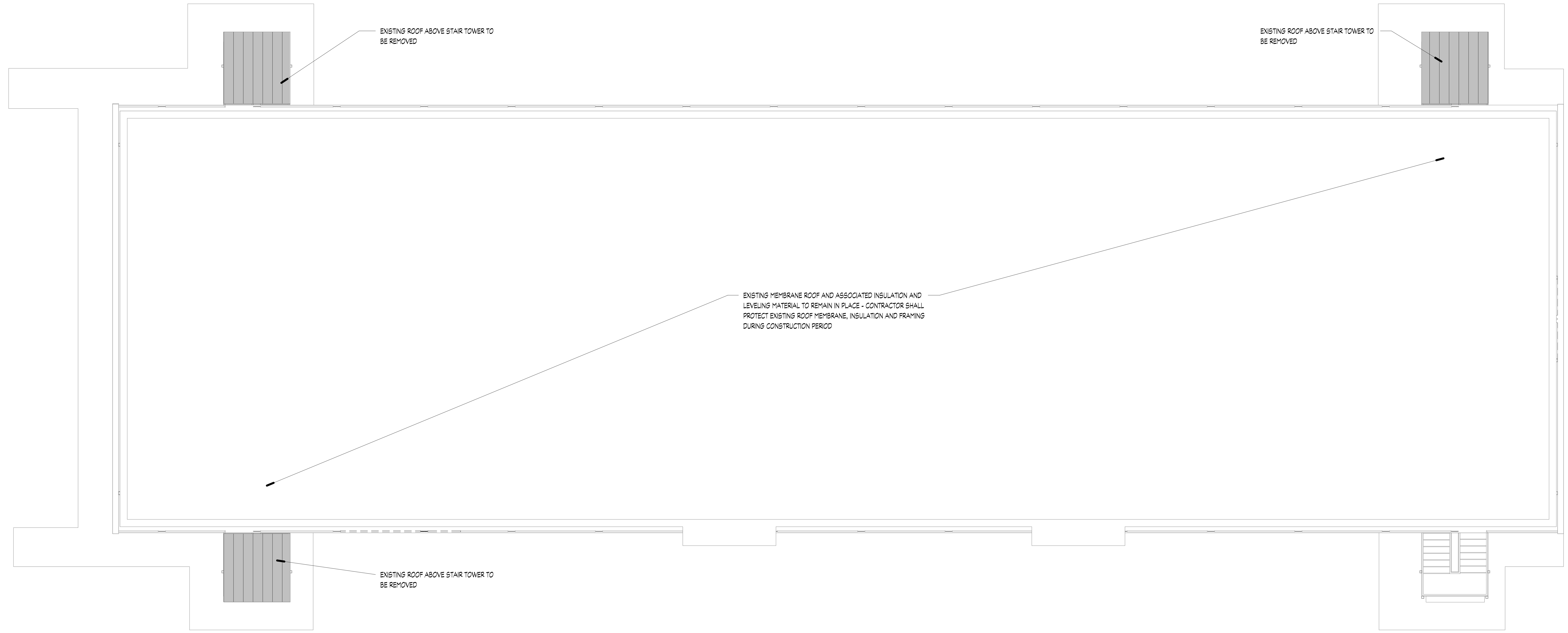
BD-1.3

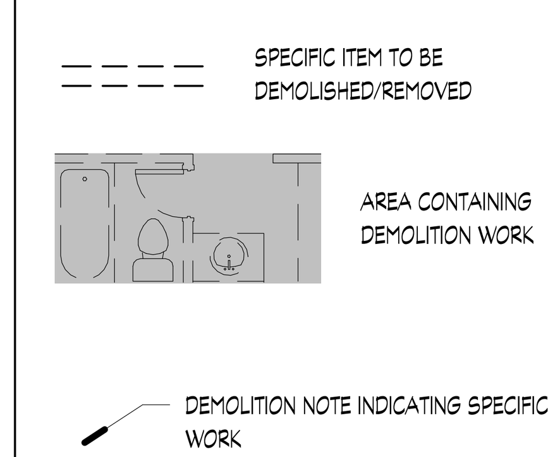
BUILDING - B

Level 3 Demolition Plan



1 Roof Demolition Plan
1/8" = 1'-0"

DEMOLITION PLAN LEGEND



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Chattanooga, Tennessee 37404
PH: (423)698-6675

9/03/2021
STATE OF TENNESSEE
NO. 00101243

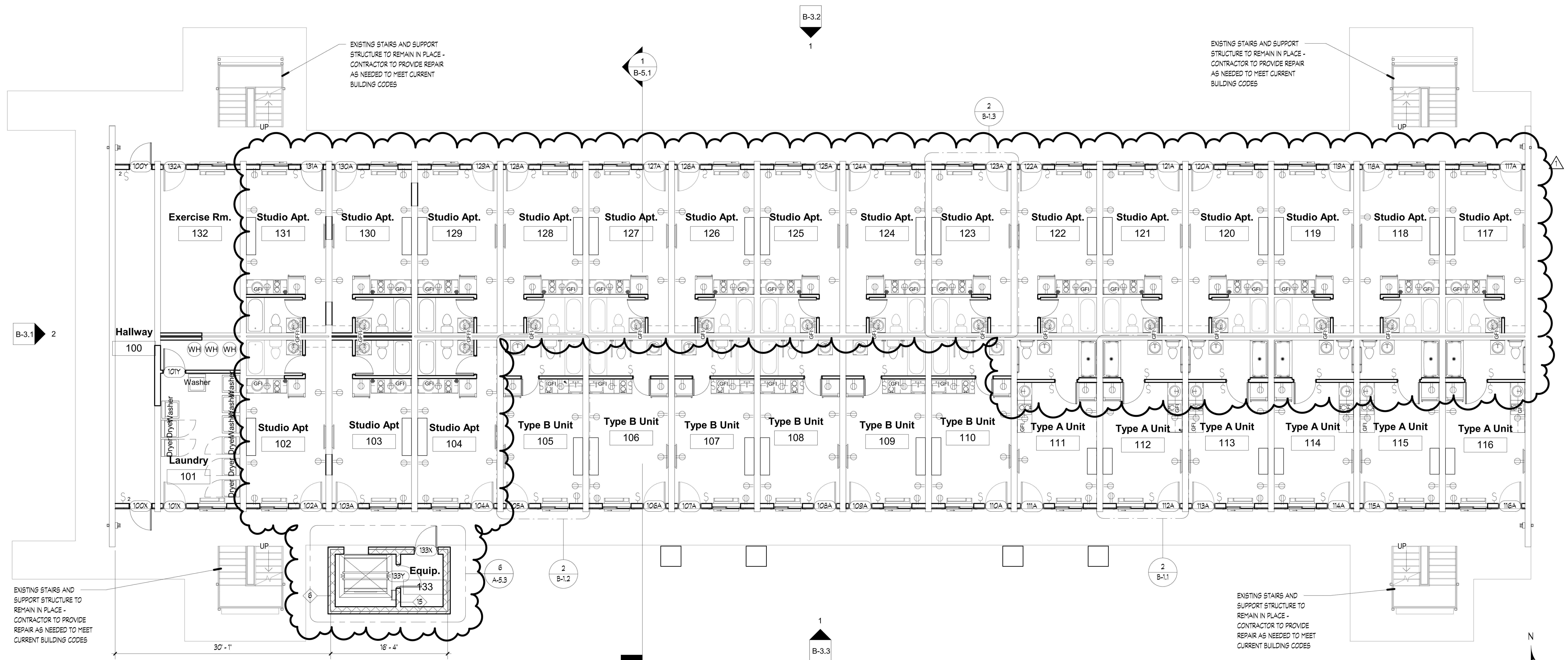
DRAWN:	64
CHECKED:	Checker
JOB No.	21-008
DATE:	September 3, 2021

BD-1.4

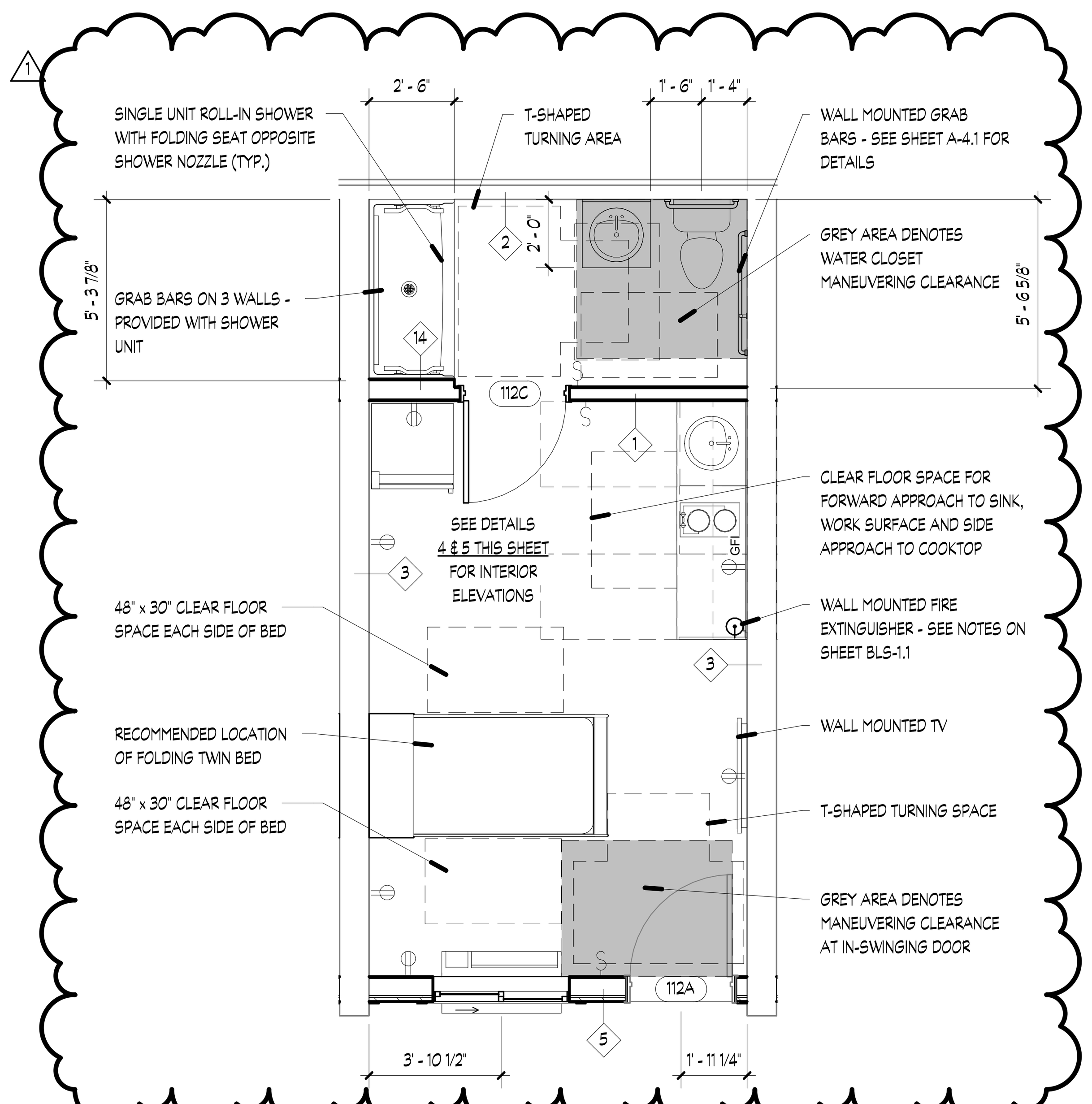
BUILDING - B

Roof Demolition PLan

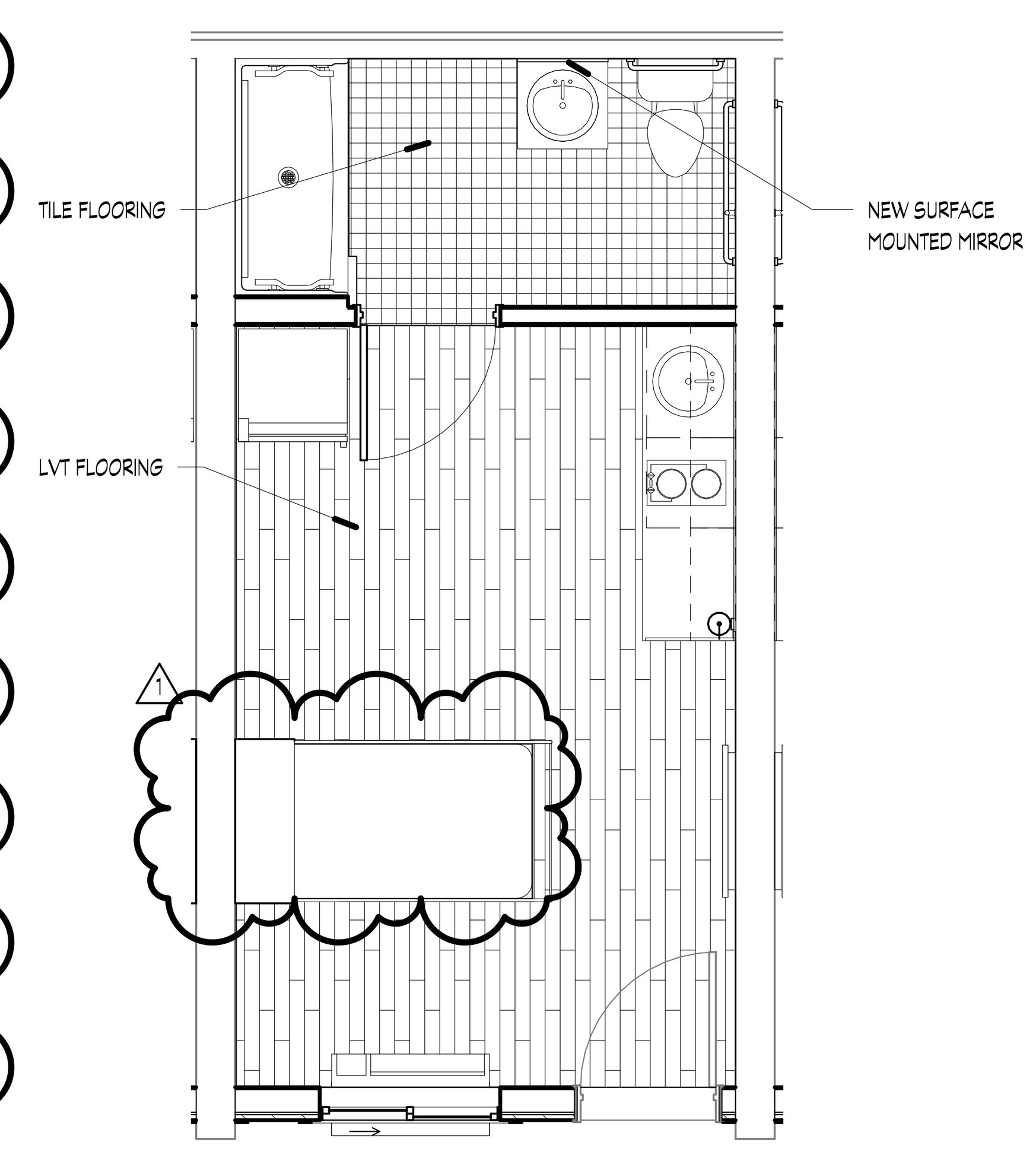
Garbee Architecture
PH: 423.364.2830



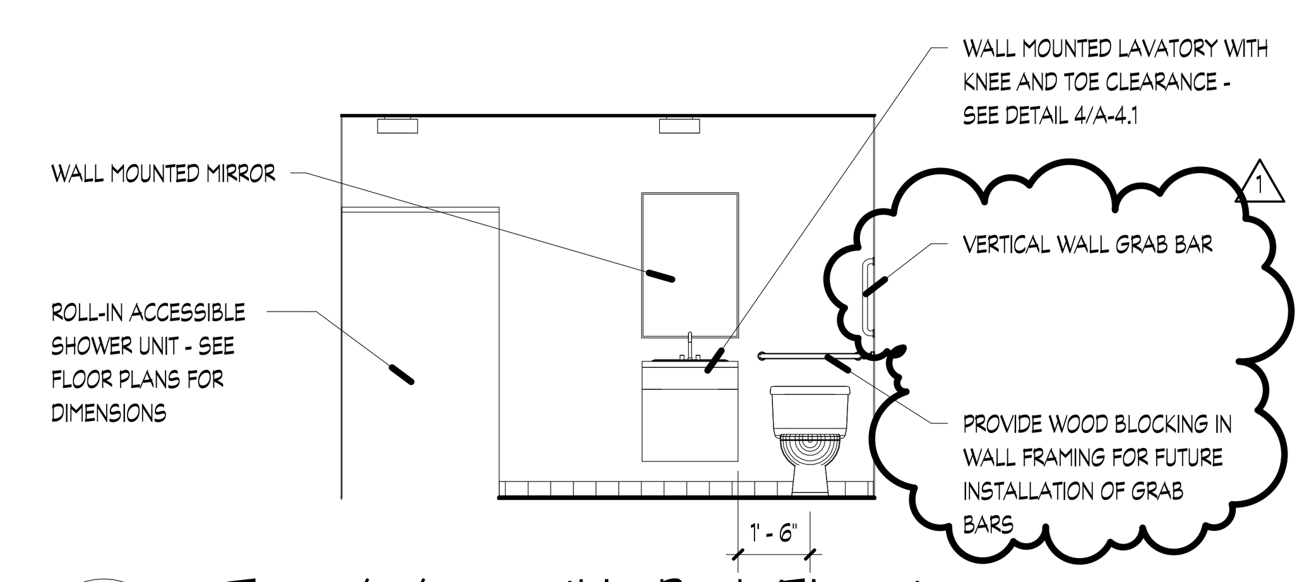
1 Level 1 Floor Plan
1/8" = 1'-0"



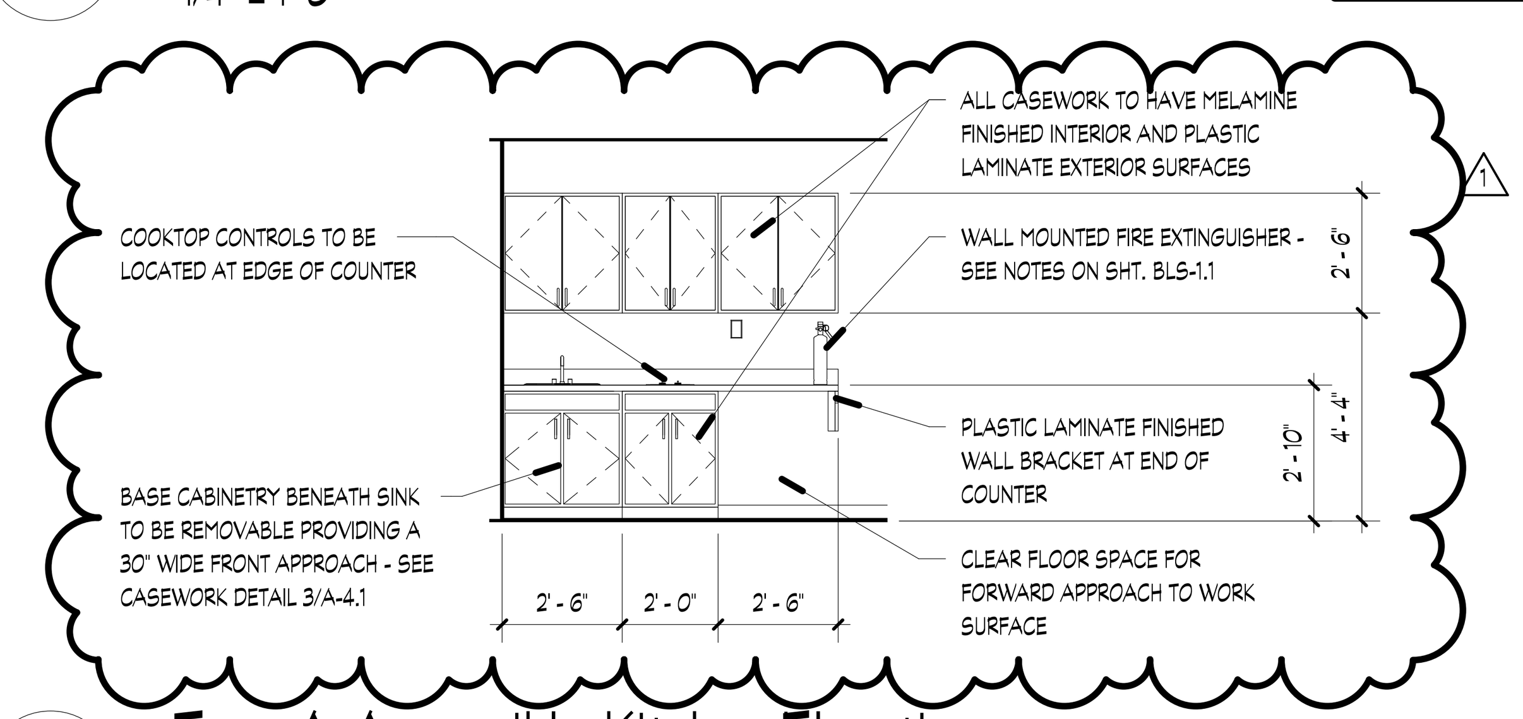
2 Type A Accessible Unit
1/4" = 1'-0"



3 Type A Accessible Unit Finish Plan
1/4" = 1'-0"



4 Type A Accessible Bath Elevation
1/4" = 1'-0"



5 Type A Accessible Kitchen Elevation
1/4" = 1'-0"

FINISH NOTES:

GENERAL FINISH NOTES AND MATERIAL INSTALLATION:

1. ALL WALLS UNLESS NOTED OTHERWISE: PAINTED DRYWALL
2. ALL CEILINGS UNLESS NOTED OTHERWISE: PAINTED DRYWALL
3. TUB SURROUND WALLS: CERAMIC OR PORCELAIN TILE
4. DOORS AND WINDOWS: PAINTED
5. KITCHEN AND BATHROOM LAVATORY BACKSPLASH: CERAMIC OR PORCELAIN TILE
6. ALL FLOORS UNLESS NOTED OTHERWISE: LUXURY VINYL TILE
7. BATHROOM FLOORS: CERAMIC OR PORCELAIN TILE
8. ALL NEW WALL CONSTRUCTION TO RECEIVE 5/8" TYPE X GYPSUM BOARD.
9. PROVIDE NEW LIGHTING FIXTURES, SMOKE DETECTORS, TOILET EXHAUST FANS AND VANITY MIRROR ABOVE COUNTERTOP AND SINK.
10. PROVIDE NEW LAVATORY SINK.
11. PROVIDE NEW CLOSET HANGER AND SHELF.
12. EACH UNIT TO HAVE NEW SURFACE MOUNTED COOKTOP.
13. ALL UNITS TO RECEIVE NEW LIGHT SWITCH OUTLET COVERS.

PLAN LEGEND

- WALL CONSTRUCTION
- 119X — DOOR SCHEDULE TAG
- WALL TYPE TAG
- FE — WALL MOUNTED FIRE EXTINGUISHER
- DETAIL SECTION TAG WITH SHEET NUMBER
- RECEPTACLE OUTLET - SEE ELECTRICAL DRAWINGS
- WALL MOUNTED LIGHT SWITCH - SEE ELECTRICAL DRAWINGS
- WALL MOUNTED FIRE EXTINGUISHER

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

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DRAWN:	65
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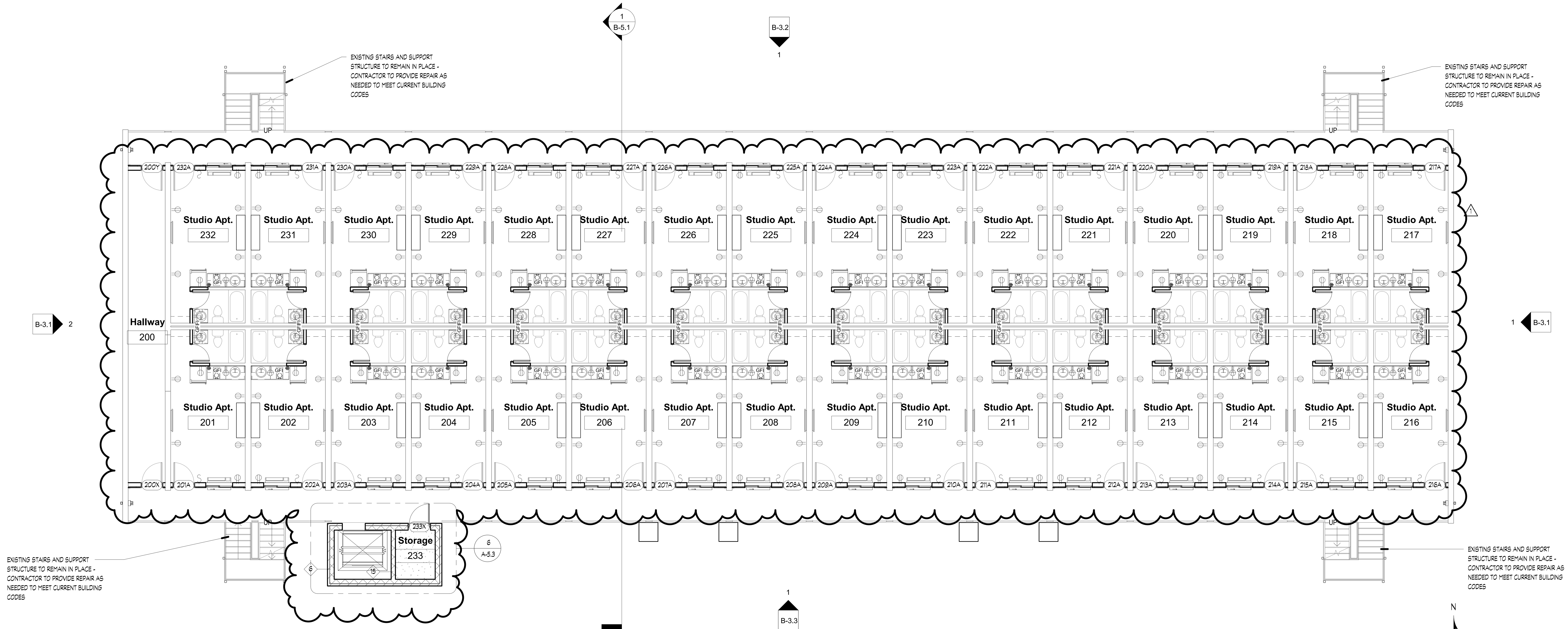
B-1.1

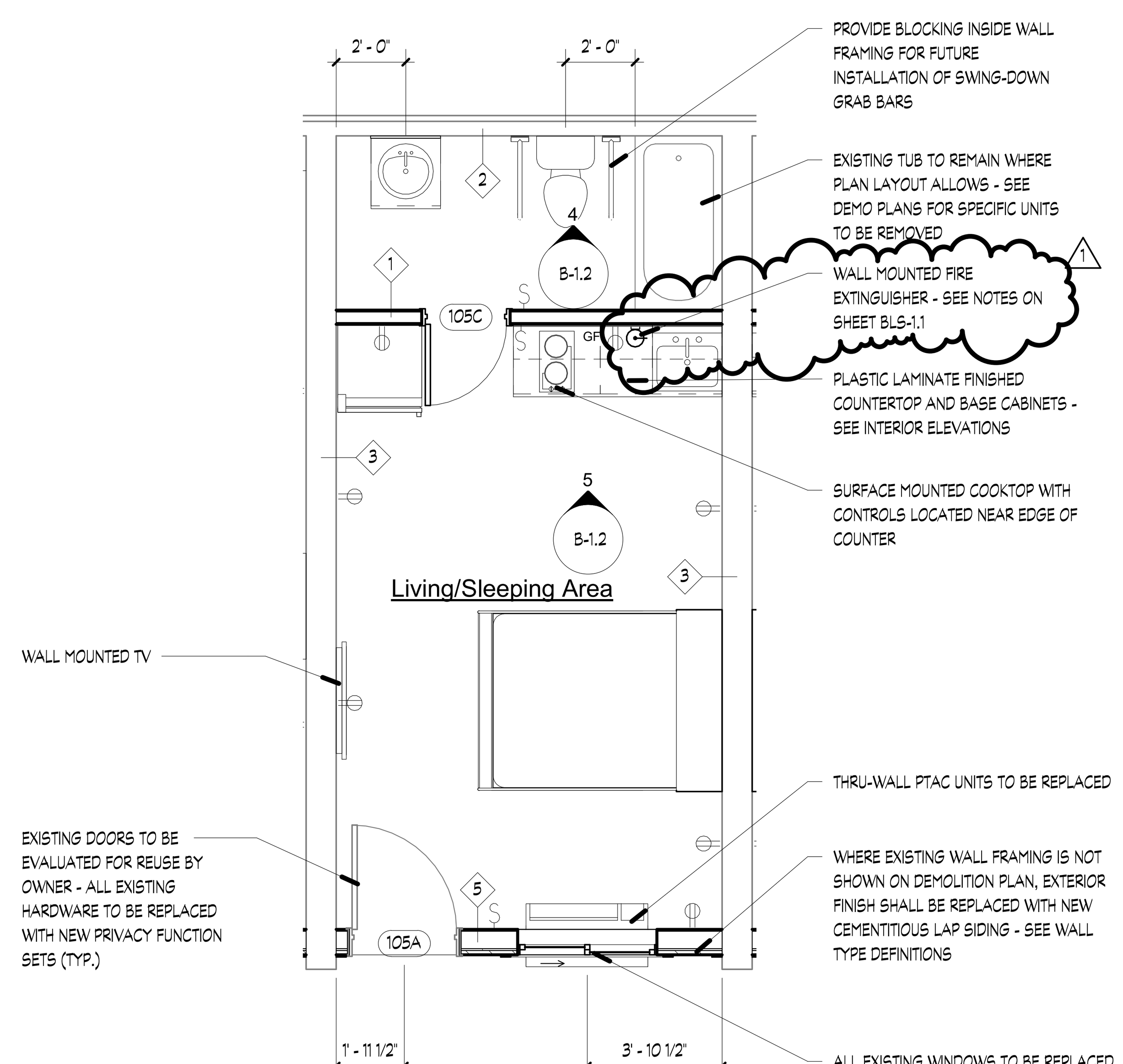
BUILDING - B

Level 1 Floor Plan

Garbee Architecture
PH: 423.364.2830



1 Level 2 Floor Plan
1/8" = 1'-0"



2 Type B Accessible Unit
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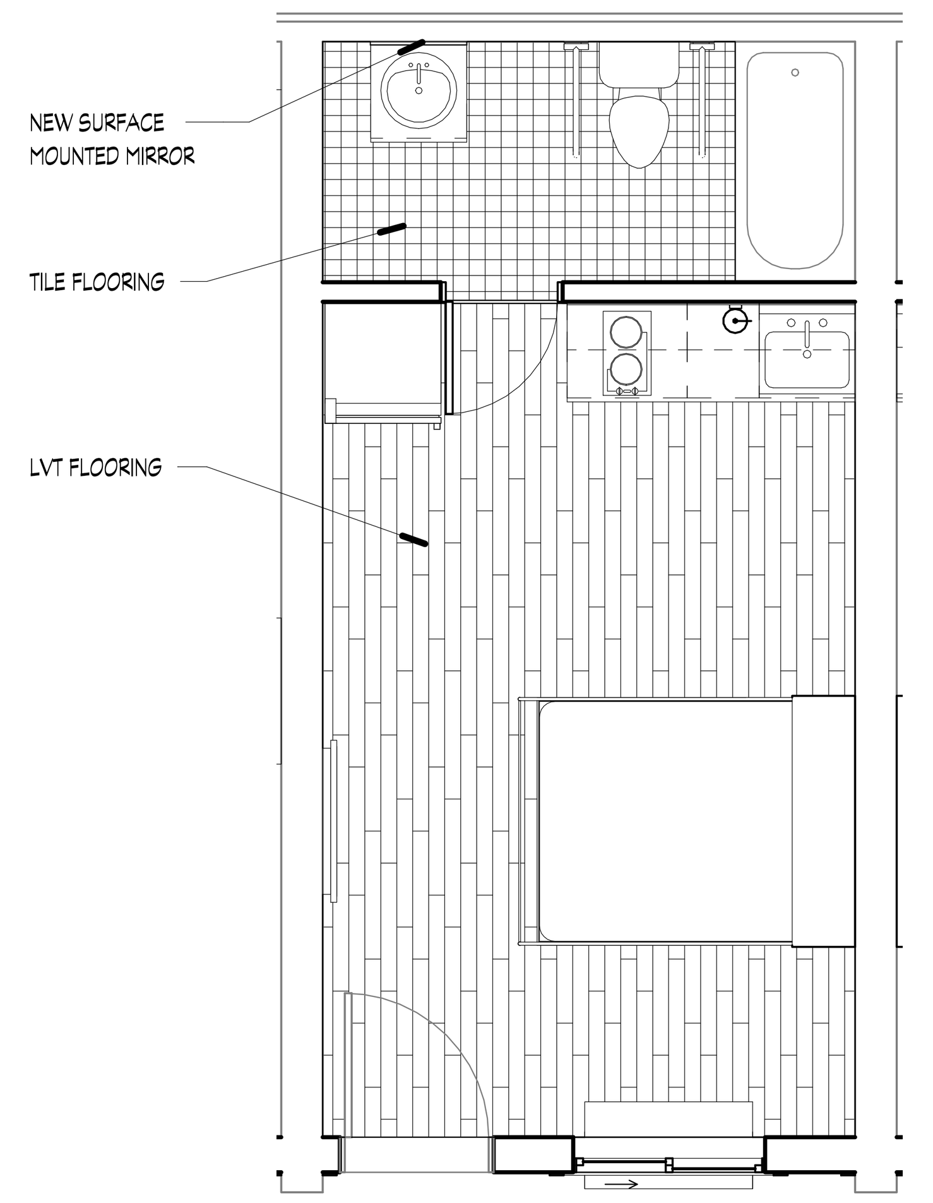

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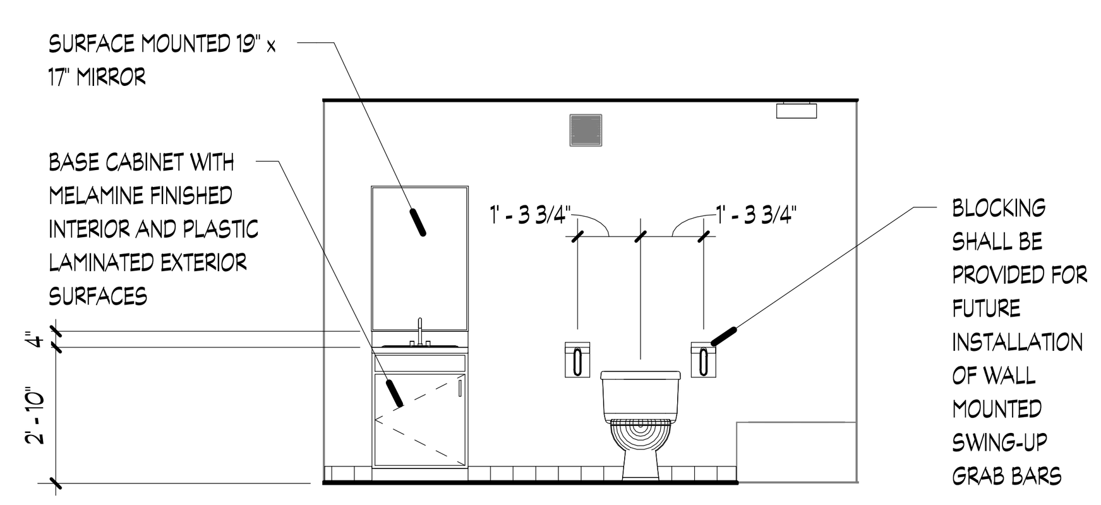

4 Type B Accessible Bath Elevation
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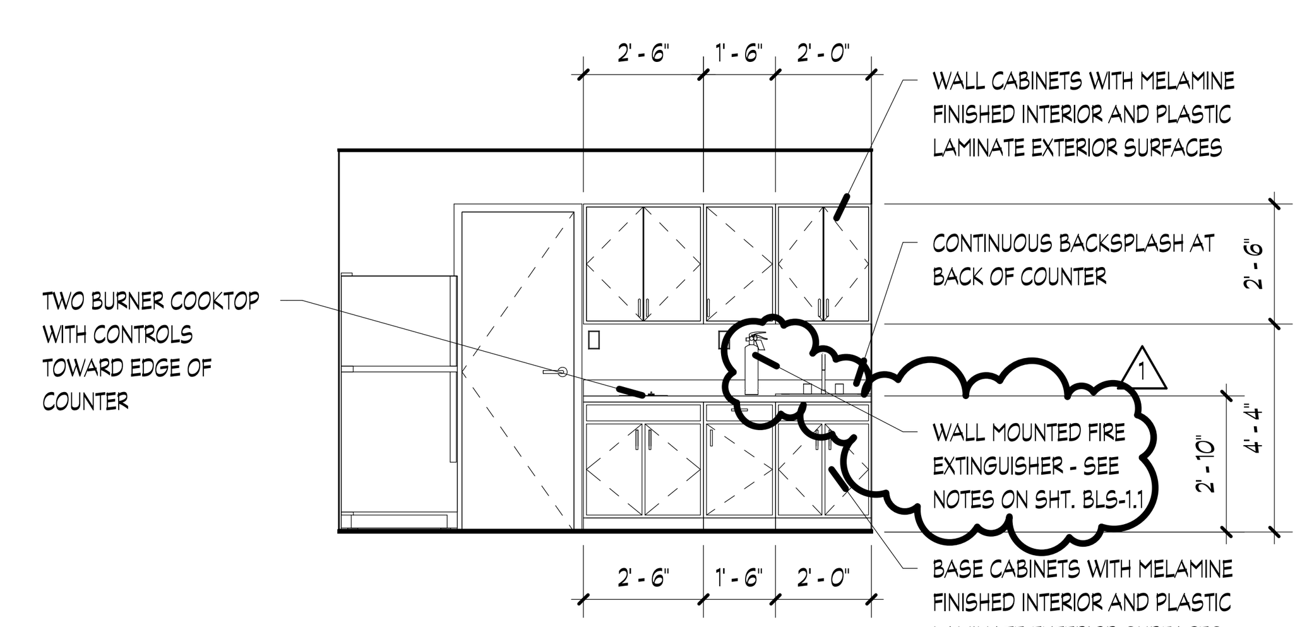

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PLAN LEGEND

Symbol	Description
(double line)	WALL CONSTRUCTION
119X	DOOR SCHEDULE TAG
1 (diamond)	WALL TYPE TAG
FE	WALL MOUNTED FIRE EXTINGUISHER
2 / A301	DETAIL SECTION TAG WITH SHEET NUMBER
(receptacle symbol)	RECEPTACLE OUTLET - SEE ELECTRICAL DRAWINGS
(switch symbol)	WALL MOUNTED LIGHT SWITCH - SEE ELECTRICAL DRAWINGS
(extinguisher symbol)	WALL MOUNTED FIRE EXTINGUISHER

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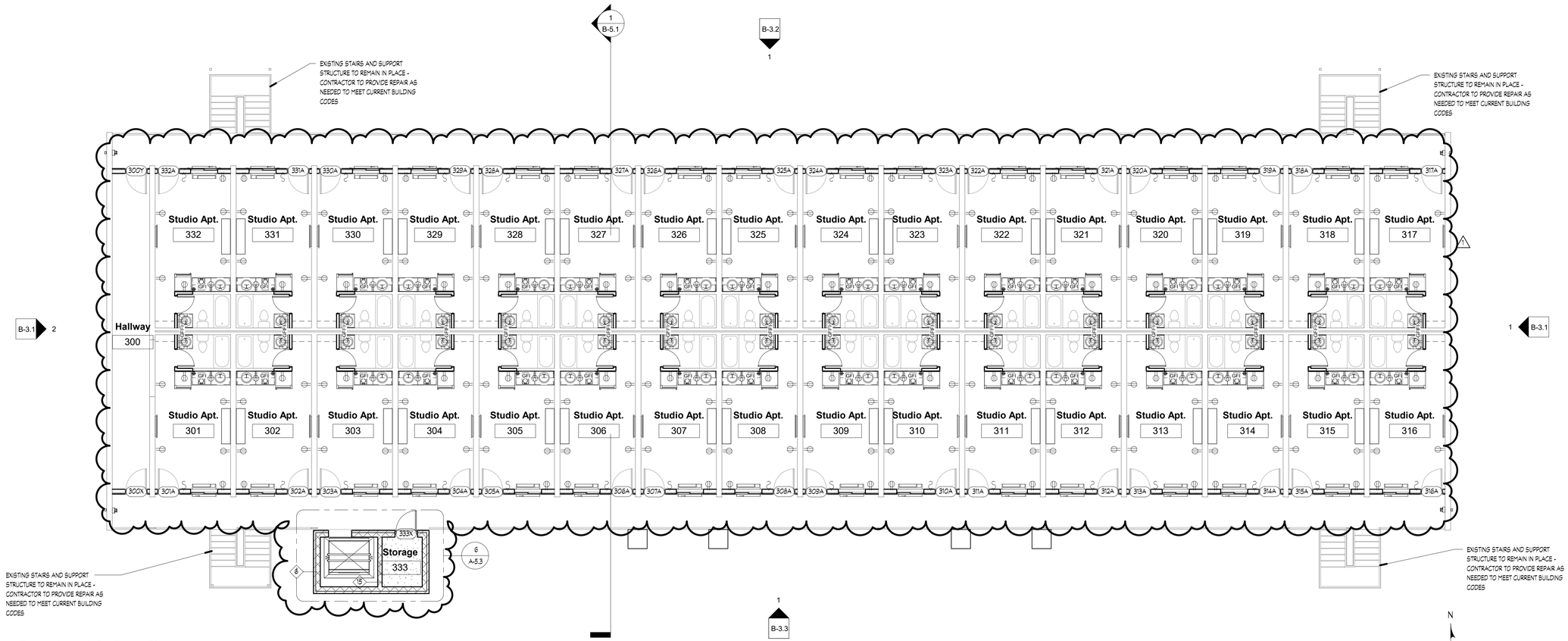
B-1.2

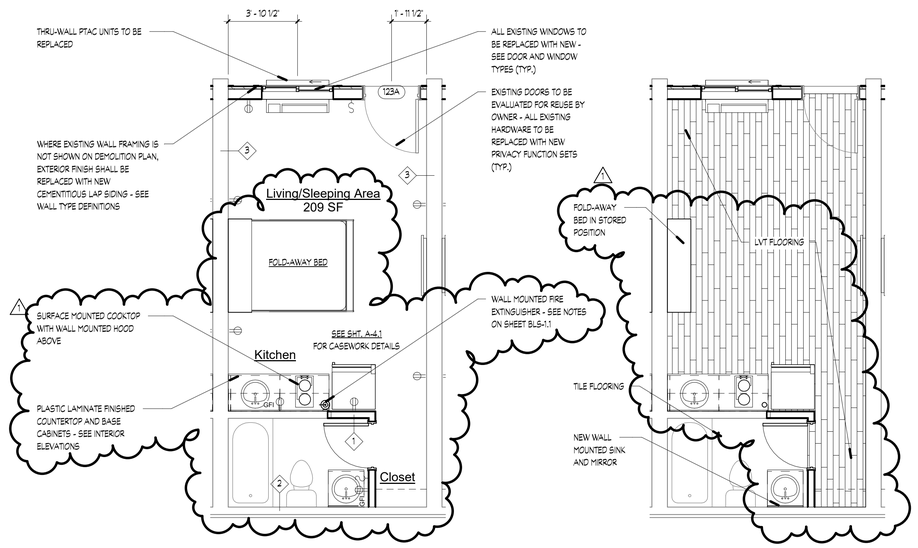
BUILDING - B

Level 2 Floor Plan



1 Level 3 Floor Plan

1/8" = 1'-0"

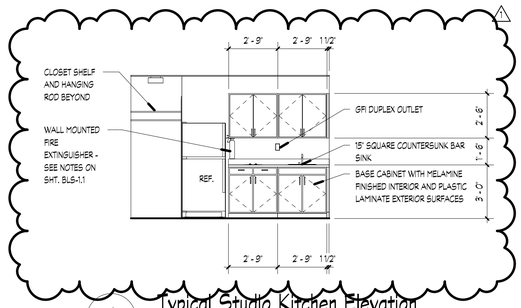


2 Typical Studio Unit

1/4" = 1'-0"

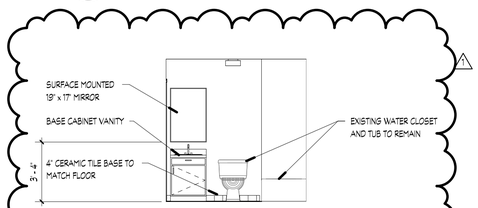
3 Typical Studio Unit Finish Plan

1/4" = 1'-0"



4 Typical Studio Kitchen Elevation

1/4" = 1'-0"



5 Typical Studio Unit Bath Elevation

1/4" = 1'-0"

FINISH NOTES:

GENERAL FINISH NOTES AND MATERIAL INSTALLATION:

1. ALL WALLS UNLESS NOTED OTHERWISE: PAINTED DRYWALL
2. ALL CEILINGS UNLESS NOTED OTHERWISE: PAINTED DRYWALL
3. TUB SURROUND WALLS: CERAMIC OR PORCELAIN TILE
4. DOORS AND WINDOWS: PAINTED
5. KITCHEN AND BATHROOM LAVATORY BACKSPLASH: CERAMIC OR PORCELAIN TILE
6. ALL FLOORS UNLESS NOTED OTHERWISE: LUXURY VINYL TILE
7. BATHROOM FLOORS: CERAMIC OR PORCELAIN TILE
8. ALL NEW WALL CONSTRUCTION TO RECEIVE 5/8" TYPE X GYPSUM BOARD.
9. PROVIDE NEW LIGHTING FIXTURES, SMOKE DETECTORS, TOILET EXHAUST FANS AND VANITY MIRROR ABOVE COUNTERTOP AND SINK.
10. PROVIDE NEW LAVATORY SINK.
11. PROVIDE NEW CLOSET HANGER AND SHELF.
12. EACH UNIT TO HAVE NEW SURFACE MOUNTED COOKTOP.
13. ALL UNITS TO RECEIVE NEW LIGHT SWITCH OUTLET COVERS.

PLAN LEGEND

- WALL CONSTRUCTION
- 118X — DOOR SCHEDULE TAG
- 1 — WALL TYPE TAG
- FE — WALL MOUNTED FIRE EXTINGUISHER
- 2 / A301 — DETAIL SECTION TAG WITH SHEET NUMBER
- RECEPTACLE OUTLET - SEE ELECTRICAL DRAWINGS
- WALL MOUNTED LIGHT SWITCH - SEE ELECTRICAL DRAWINGS
- WALL MOUNTED FIRE EXTINGUISHER

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)
400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

March Adams & Associates
Consulting Engineers
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

Garbee Architecture
PH: 423.364.2830

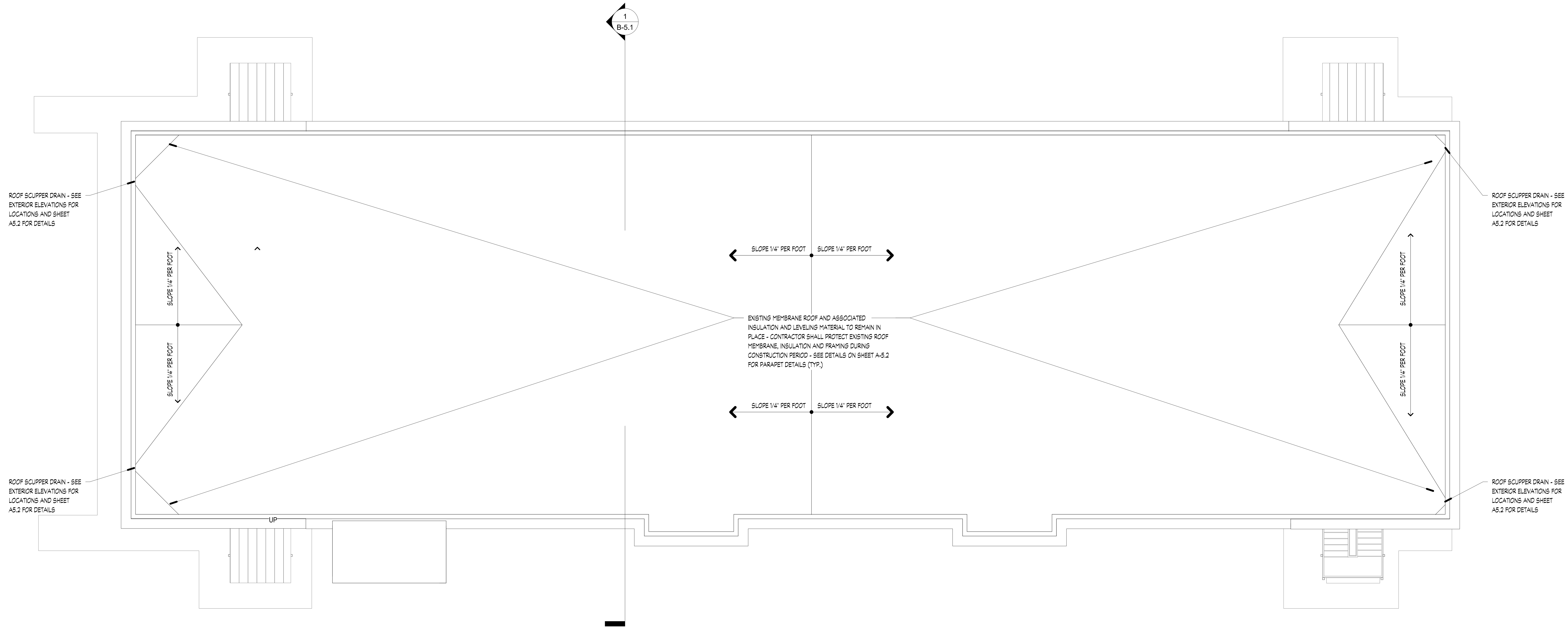
EDWARD G. GARBEE — REGISTERED ARCHITECT — STATE OF TENNESSEE — 9/03/2021

DRAWN:	67
CHECKED:	Checker
JOB No.	21-008
DATE:	September 3, 2021

B-1.3

BUILDING - B

Level 3 Floor Plan



1 Roof Plan
1/8" = 1'-0"

Revisions

#	REVISION	DATE

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)

400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

MA&A

March Adams & Associates
Consulting Engineers

310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

9/03/2021

DRAWN:	68
CHECKED:	Checker
JOB No.	21-008
DATE:	September 3, 2021

B-1.4

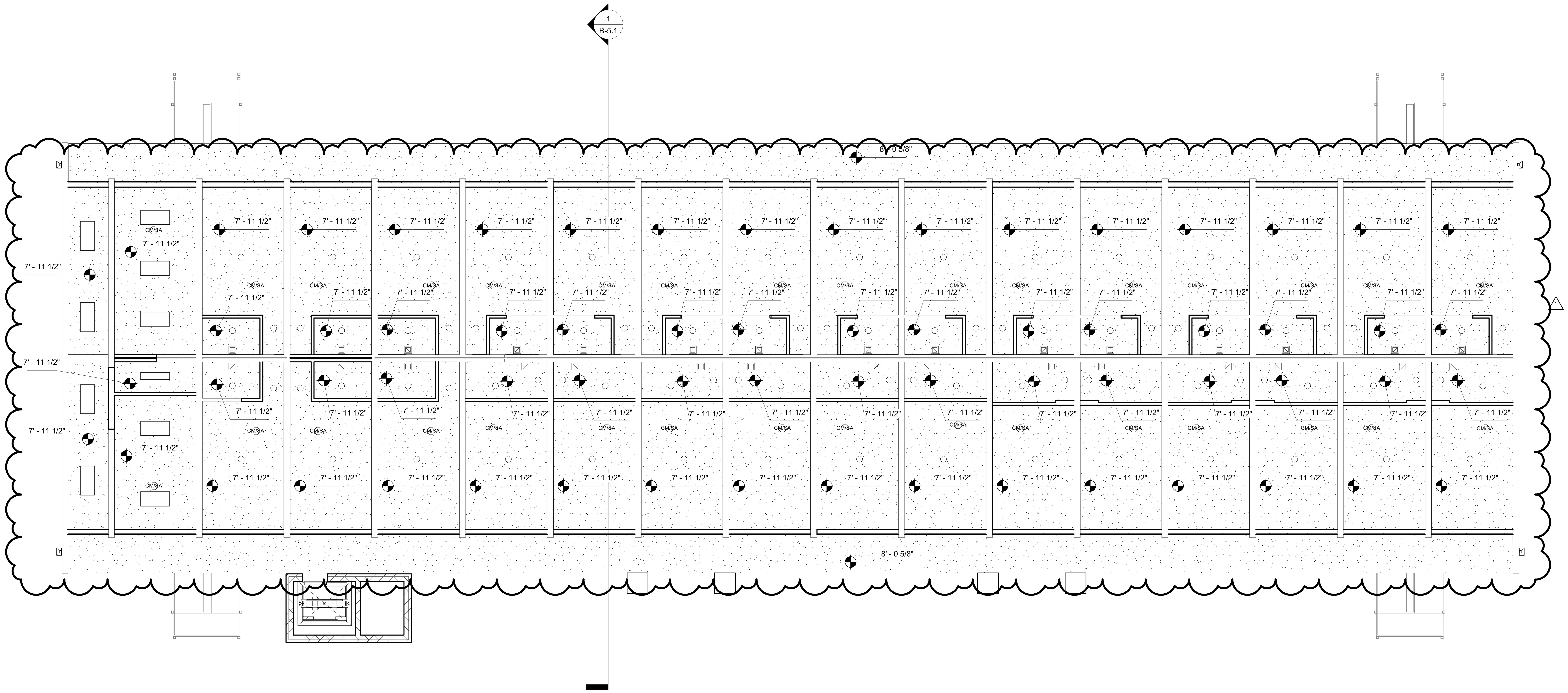
BUILDING - B

Roof Plan

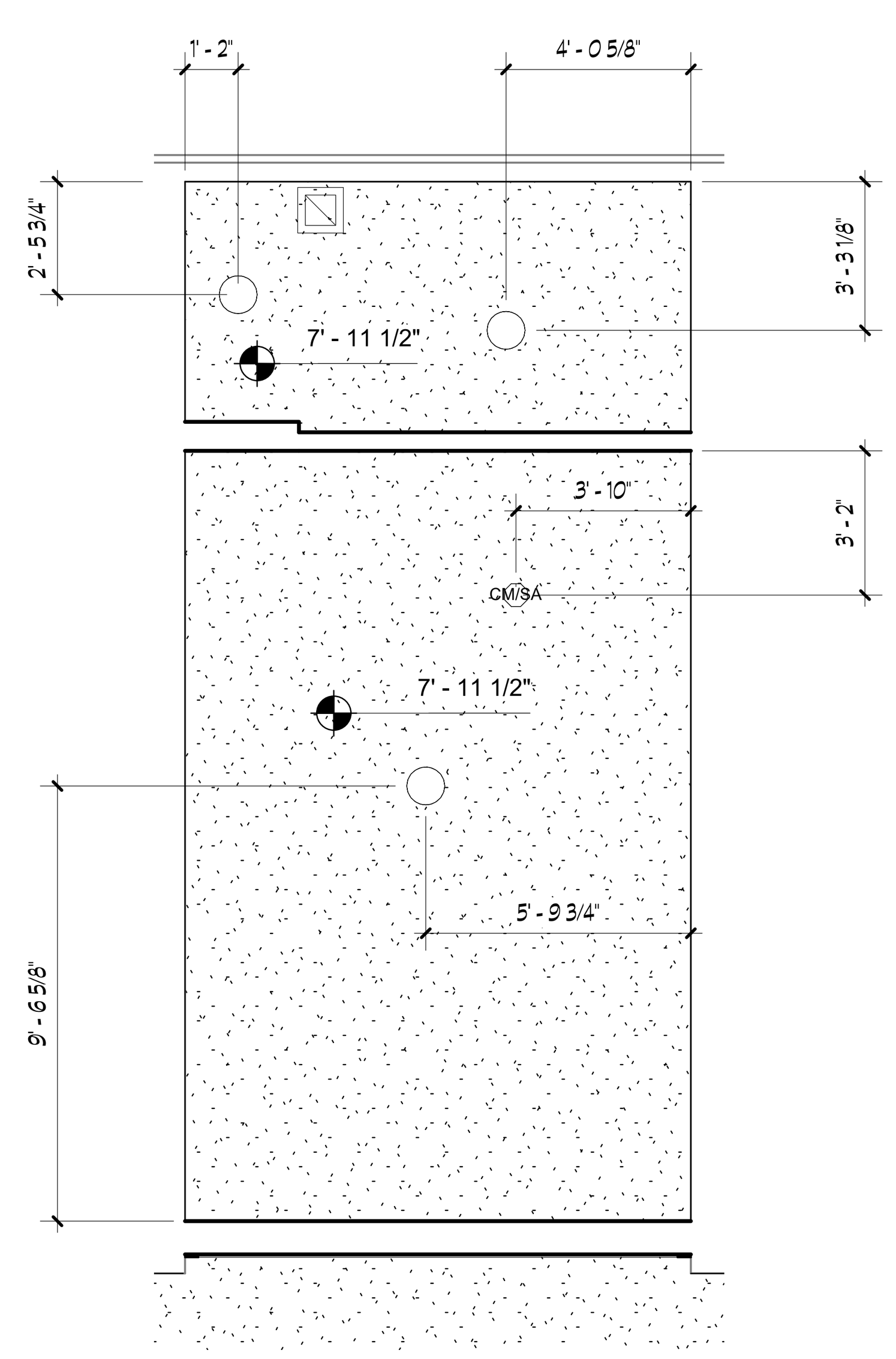
Garbee Architecture
PH: 423.364.2830

Revisions

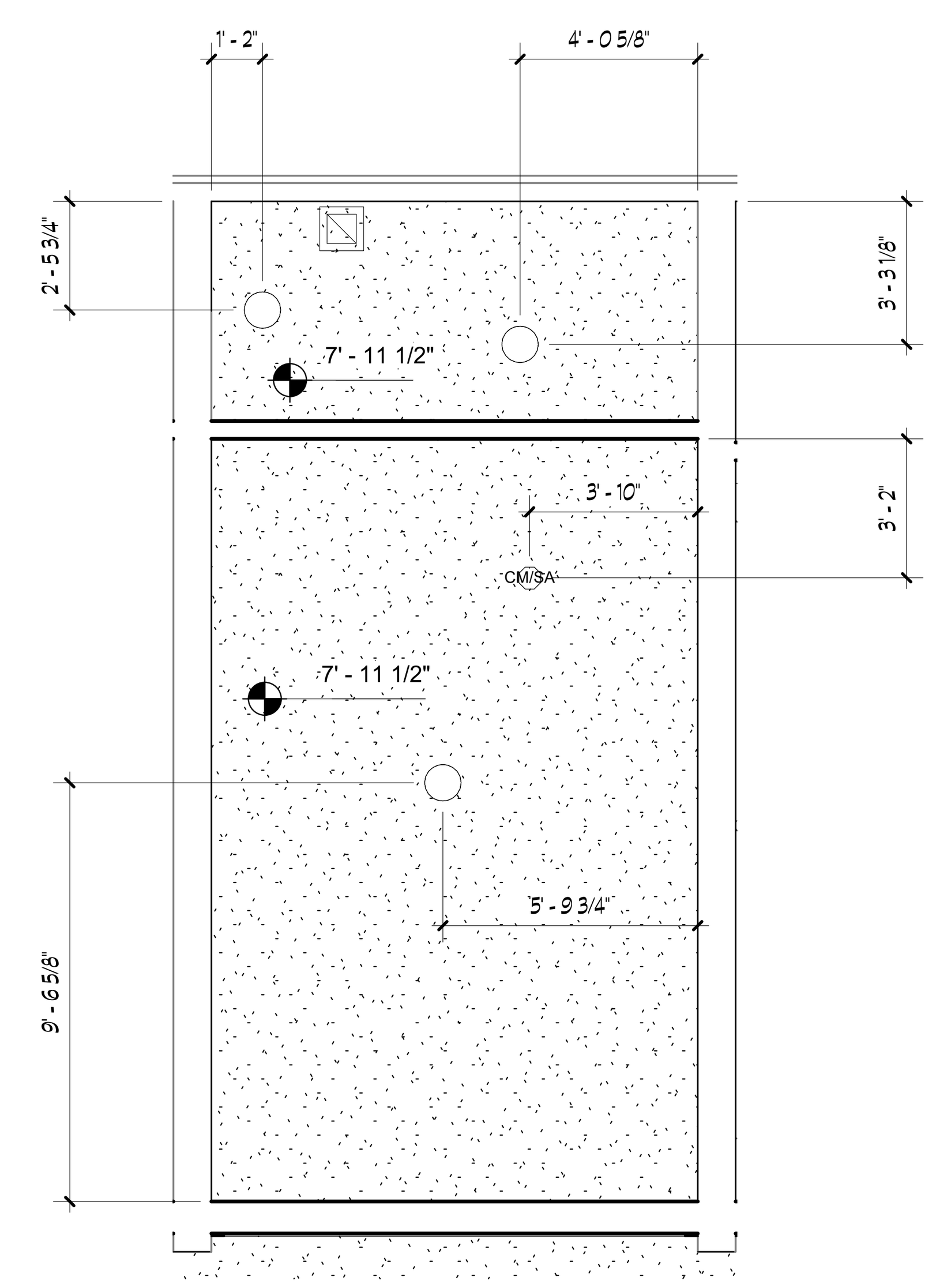
#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22



1 Level 1 Ceiling Plan
1/8" = 1'-0"



2 Typical Type A Unit Ceiling Plan
1/4" = 1'-0"



3 Typical Type B Unit Ceiling Plan
1/4" = 1'-0"

REFLECTED CEILING LEGEND

- EXHAUST DIFFUSER
- SUSPENDED LIGHT FIXTURE
- HVAC SUPPLY DIFFUSER
- HVAC RETURN DIFFUSER
- 2x4 SUSPENDED ACOUSTICAL TILE CEILING
- RECESSED LIGHT FIXTURE
- RECESSED CAN LIGHT FIXTURE
- GYPSUM BOARD FINISHED CEILING
- CM/SA — CEILING MOUNTED CARBON MONOXIDE / SMOKE DETECTOR / ALARM
- WALL MOUNTED ILLUMINATED EXIT SIGN
- WALL MOUNTED EMERGENCY LIGHTING
- WALL MOUNTED EXTERIOR LIGHTING FIXTURE
- 9' - 0" — FINISHED CEILING HEIGHT

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)

400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

MA &A
March Adams & Associates
Consulting Engineers
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

9/03/2021

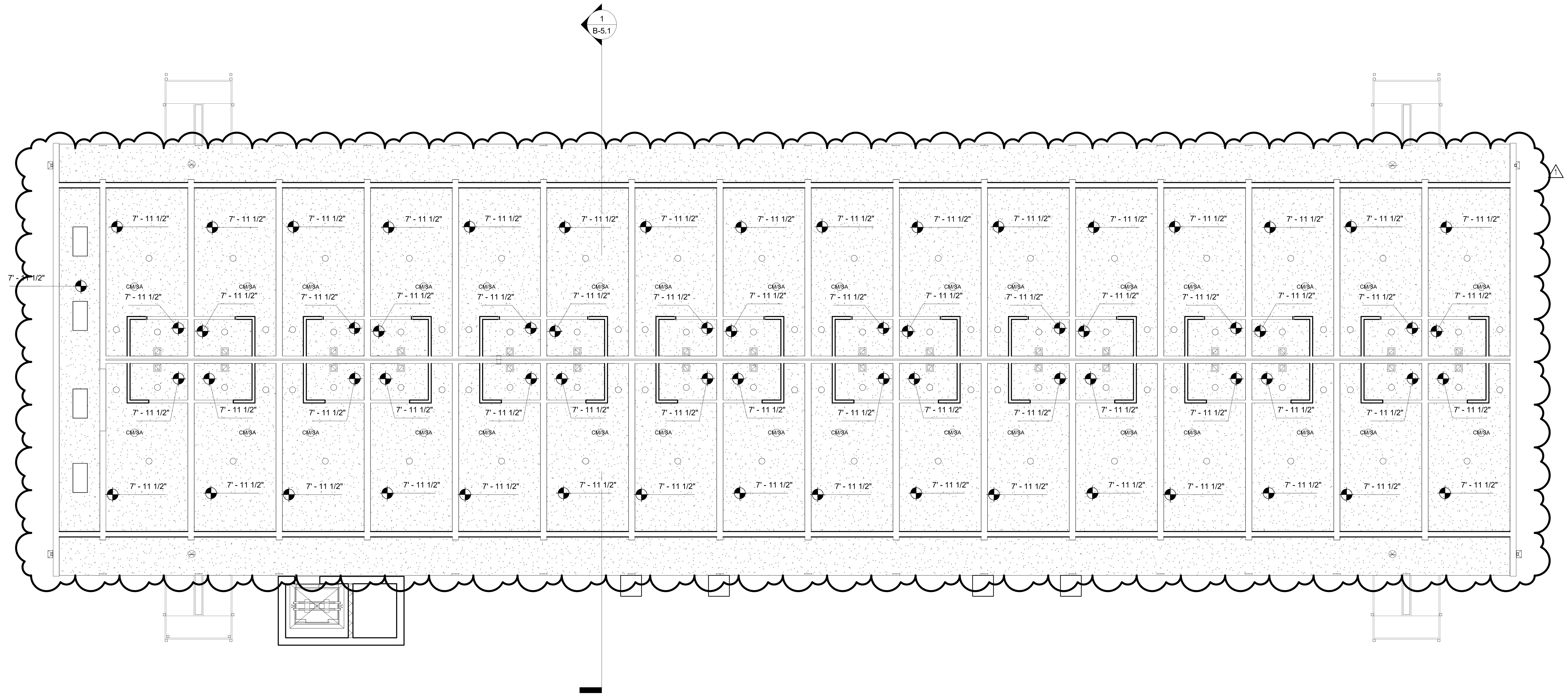
DRAWN:	69
CHECKED:	Checker
JOB No.	21-008
DATE:	September 3, 2021

B-2.1

BUILDING - B

Level 1 Ceiling Plan

Garbee Architecture
PH: 423.364.2830



1 Level 2 Ceiling Plan
1/8" = 1'-0"

REFLECTED CEILING LEGEND

	EXHAUST DIFFUSER
	SUSPENDED LIGHT FIXTURE
	HVAC SUPPLY DIFFUSER
	HVAC RETURN DIFFUSER
	2x4 SUSPENDED ACOUSTICAL TILE CEILING
	RECESSED LIGHT FIXTURE
	RECESSED CAN LIGHT FIXTURE
	GYPSUM BOARD FINISHED CEILING
CM/SA	CEILING MOUNTED CARBON MONOXIDE / SMOKE DETECTOR / ALARM
	WALL MOUNTED ILLUMINATED EXIT SIGN
	WALL MOUNTED EMERGENCY LIGHTING
	WALL MOUNTED EXTERIOR LIGHTING FIXTURE
8' - 0"	FINISHED CEILING HEIGHT

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)
400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

MA&A
March Adams & Associates
Consulting Engineers
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

9/03/2021

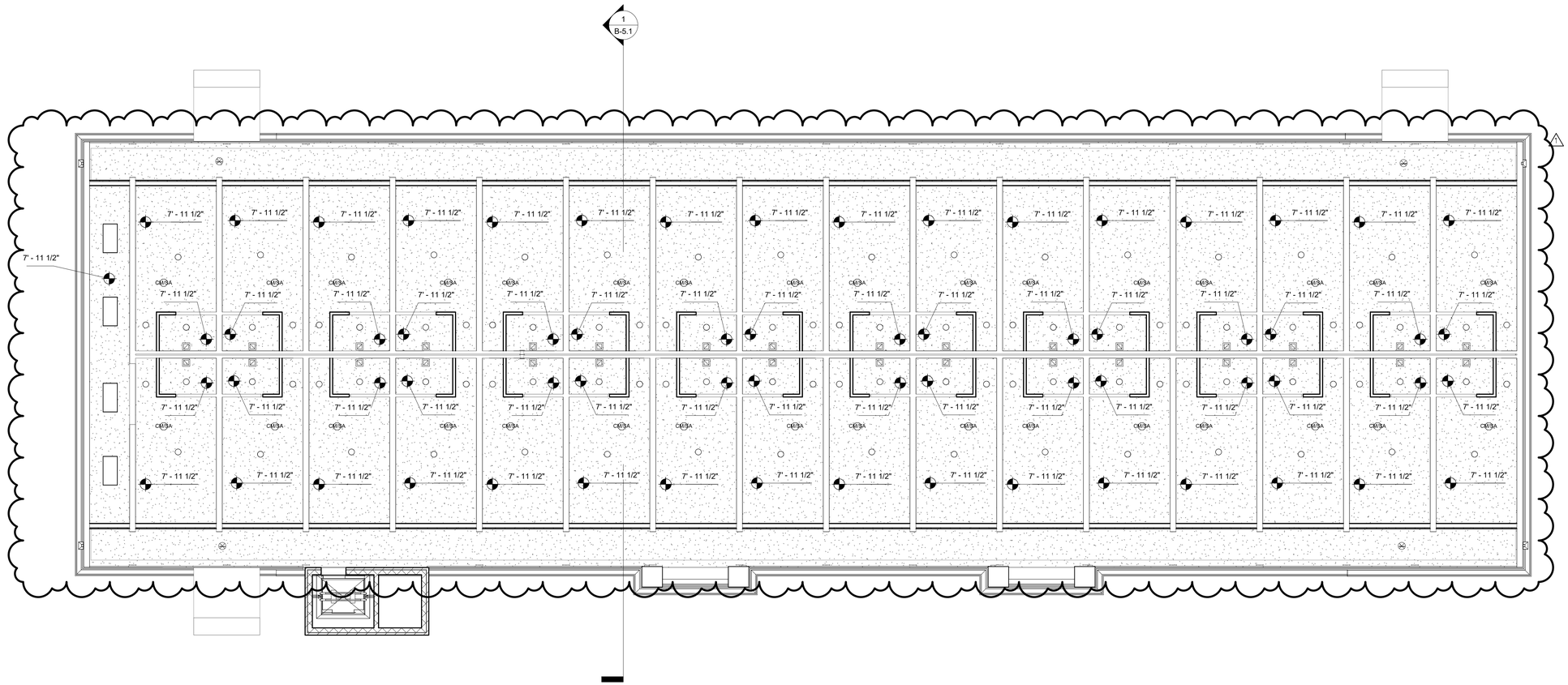
DRAWN:	70
CHECKED:	Checker
JOB No.	21-008
DATE:	September 3, 2021

B-2.2

BUILDING - B

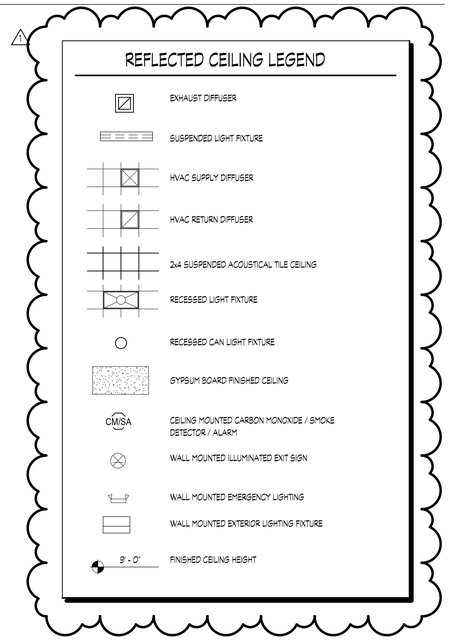
Level 2 Ceiling Plan

Garbee Architecture
PH: 423.364.2830



1 Level 3 Ceiling Plan

1/8" = 1'-0"



Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)

400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

March Adams & Associates
Consulting Engineers

310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

EDMUND G. GARBEE — REGISTERED ARCHITECT — STATE OF TENNESSEE
9/03/2021

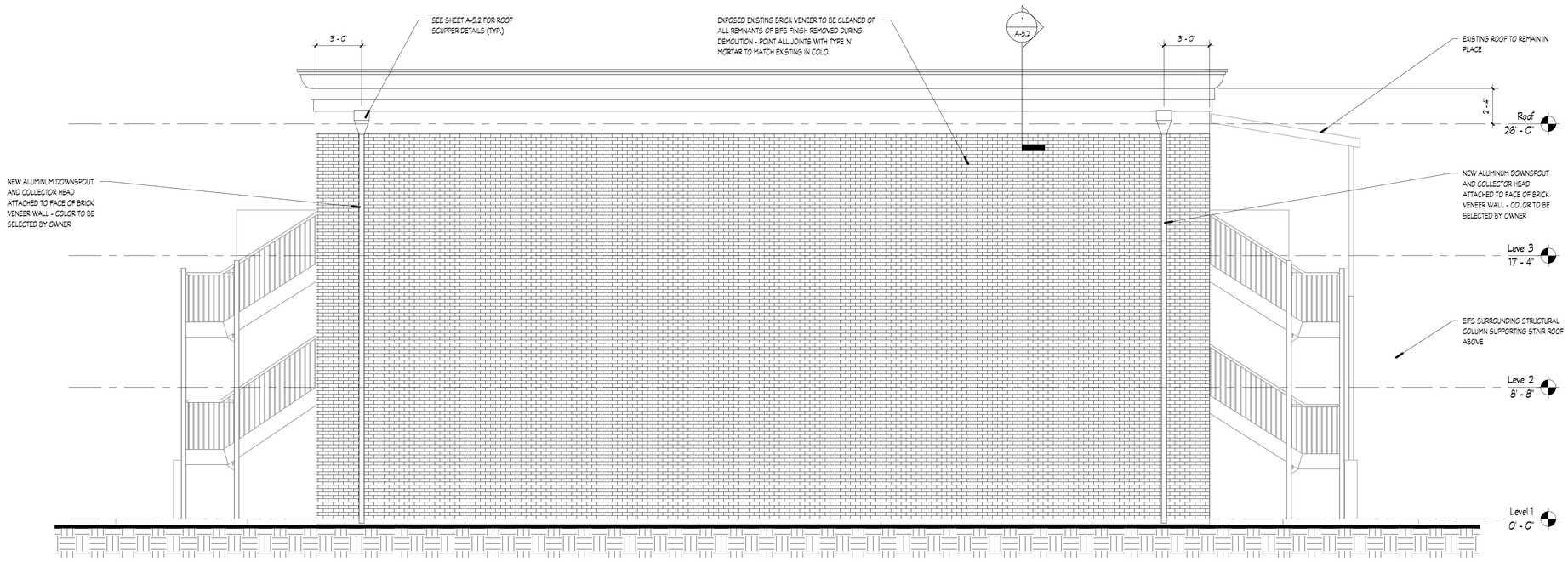
DRAWN:	71
CHECKED:	Checker
JOB No.	21-008
DATE:	September 3, 2021

B-2.3

BUILDING - B

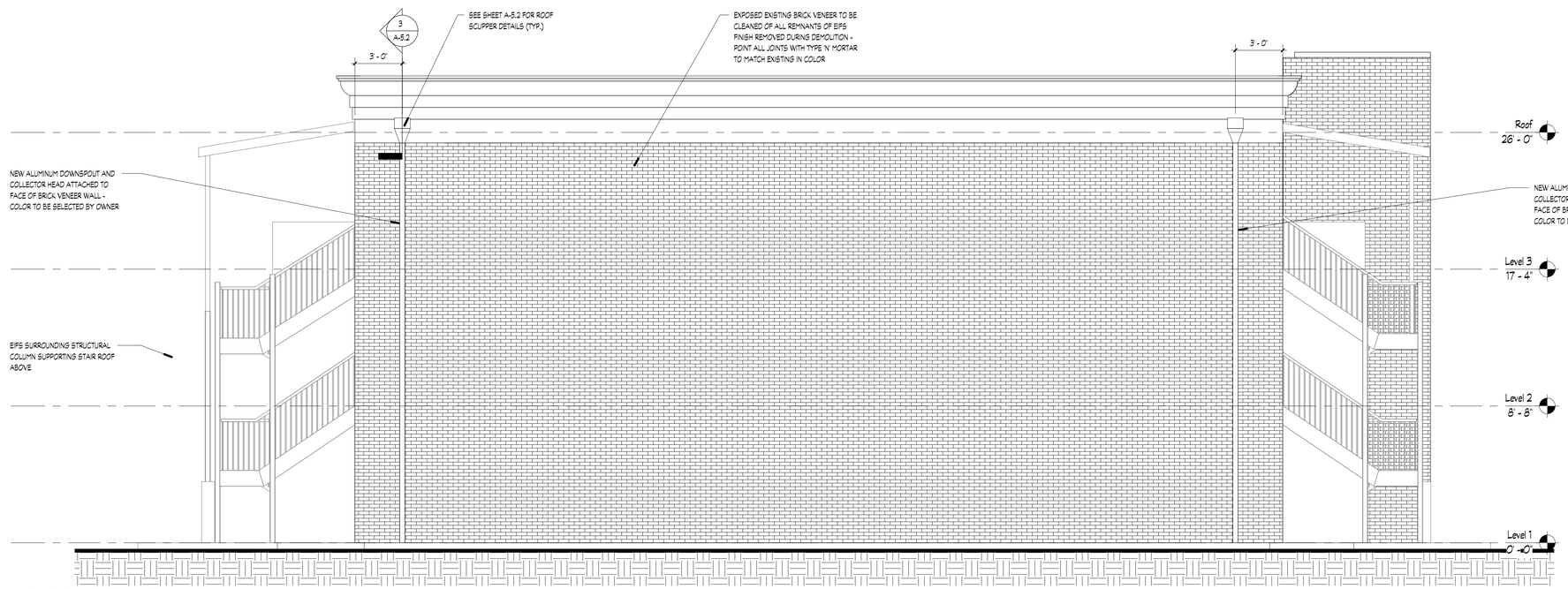
Level 3 Ceiling Plan

Garbee Architecture
PH: 423.364.2830



1 **Building B East Elevation**

1/4" = 1'-0"



2 **Building B West Elevation**

1/4" = 1'-0"

Revisions

#	REVISION	DATE

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)

400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

March Adams & Associates
Consulting Engineers

310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

EDWARD G. GARBEE
REGISTERED ARCHITECT
No. 07101
STATE OF TENNESSEE
9/03/2021

DRAWN:	72
CHECKED:	Checker
JOB No.	21-008
DATE:	September 3, 2021

B-3.1

BUILDING - B

Exterior Elevations

Garbee Architecture
PH: 423.364.2830

1 Building B North Elevation - West

1/4" = 1'-0"

2 Building B North Elevation - East

1/4" = 1'-0"

Revisions

#	REVISION	DATE

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)

400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

March Adams & Associates
Consulting Engineers

310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

EDWARD G. GARBEE
REGISTERED ARCHITECT
No. 6010
STATE OF TENNESSEE
9/03/2021

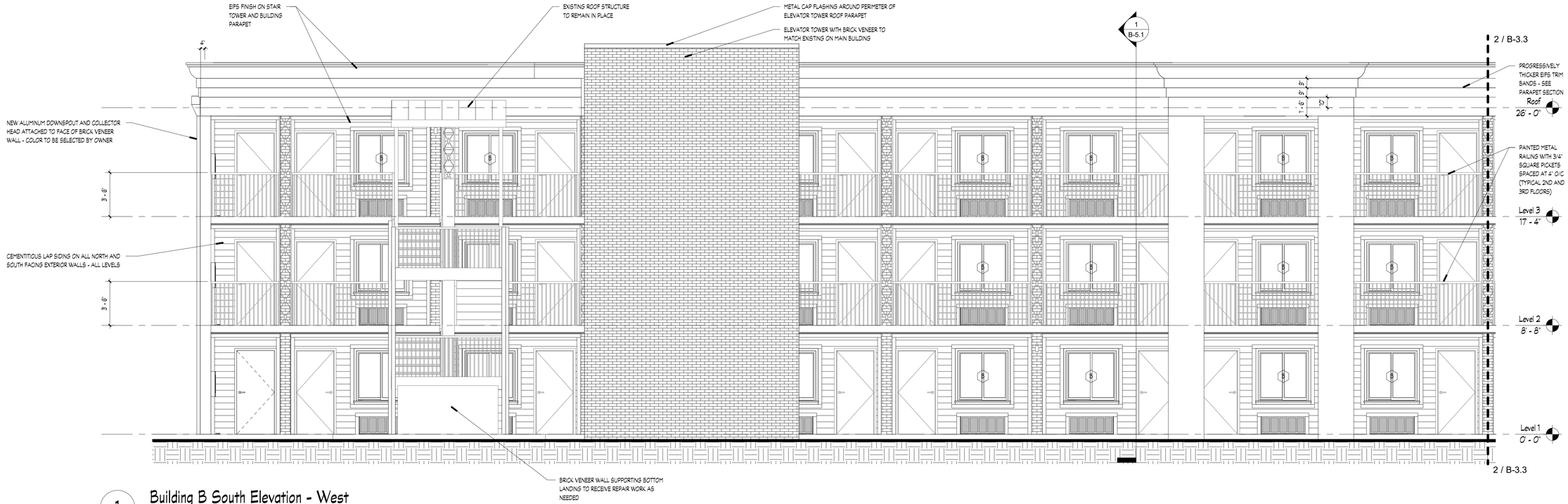
DRAWN:	73
CHECKED:	Checker
JOB No.	21-008
DATE:	September 3, 2021

B-3.2

BUILDING - B

Exterior Elevations

Garbee Architecture
PH: 423.364.2830



1 **Building B South Elevation - West**

1/4" = 1'-0"

2 **Building B South Elevation - East**

1/4" = 1'-0"

Revisions

#	REVISION	DATE

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)

400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

March Adams & Associates
Consulting Engineers

310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

EDWARD G. GARBEE
REGISTERED ARCHITECT
No. 07104
STATE OF TENNESSEE
9/03/2021

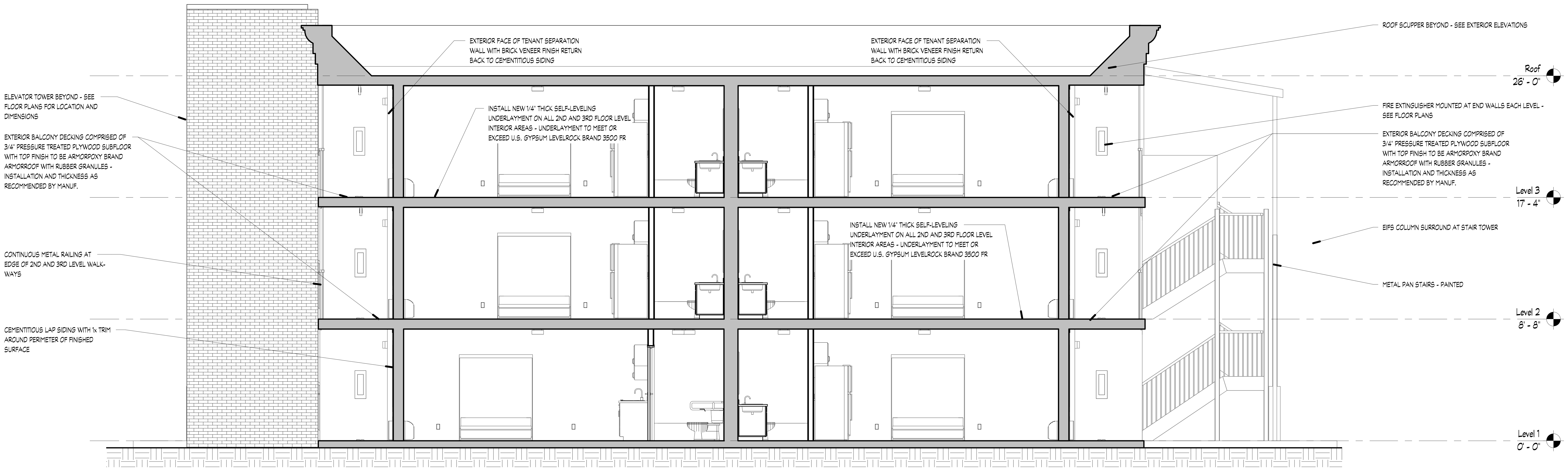
DRAWN:	74
CHECKED:	Checker
JOB No.	21-008
DATE:	September 3, 2021

B-3.3

BUILDING - B

Exterior Elevations

Garbee Architecture
PH: 423.364.2830



1 North/South Section @ Apartment Building B

1/4" = 1'-0"

Revisions		
#	REVISION	DATE

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)

400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

MA &A

March Adams & Associates
Consulting Engineers

310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

9/03/2021

DRAWN:	76
CHECKED:	Checker
JOB No.	21-008
DATE:	September 3, 2021

B-5.1

BUILDING - B

Building Section

Garbee Architecture
PH: 423.364.2830

HARDWARE SCHEDULE

TYPE 1: STORAGE
A. 1 1/2 PAIR HAGER BALL BEARING BB1279-4 1/2 x 4 1/2 x US26D
B. 1 SCHLAGE AL70PD SAT (CLASSROOM), US26D FINISH
C. 3 GLYNN JOHNSON SILENCERS
D. 1 SCHLAGE 1013 STRIKE 1 1/2" LIP LENGTH

TYPE 2: TOILET (PRIVACY)
A. 1 1/2 PAIR HAGER BALL BEARING BB1279-4 1/2 x 4 1/2 x US26D
B. 1 SCHLAGE AL40S SAT (PRIVACY LOCK), US26D FINISH
C. 3 GLYNN JOHNSON SILENCERS
D. 1 IVES #407 1/2 US26D FINISH WALL STOP - WHERE REQUIRED
E. 1 SCHLAGE 1013 STRIKE 1 1/2" LIP LENGTH

TYPE 3: OFFICE
A. 1 1/2 PAIR HAGER BALL BEARING BB1279-4 1/2 x 4 1/2 x 626
B. 1 SCHLAGE AL50PD SAT (ENTRANCE, OFFICE), US26D FINISH
C. 3 GLYNN JOHNSON SILENCERS
D. 1 BALDWIN 4010 FLOOR STOP
E. 1 SCHLAGE 1013 STRIKE 1 1/2" LIP LENGTH

TYPE 4: ALUMINUM STOREFRONT
A. 1 PAIR IVES#7215-INT INTERMEDIATE OFFSET PIVOTS
B. 1 GENERAL LOCK BRAND ADL SERIES MORTISE DEADLATCH
C. 1 GENERAL LOCK BRAND API SERIES PUSH/PULL PADDLE
D. 1 LCN PARALLEL ARM CLOSER 4050 SERIES, US26D FINISH
E. 1 BOTTOM DOOR SWEEPS
F. 1 KAWNEER A 1/2"x6 3/4" ALUMINUM MILL FINISH THRESHOLD

TYPE 5: ALUMINUM STOREFRONT
A. 2 PAIR IVES #7215-INT INTERMEDIATE OFFSET PIVOTS
B. 1 ADAMS-RITE #1850S SERIES MS DEADLOCK
C. 1 KAWNEER CONTROLLER LOCKING DEVICE
D. 1 PAIR BOTTOM DOOR SWEEPS
E. 2 LCN 4040XP SURFACE CLOSER WITHOUT ADJUSTABLE HOLD-OPEN
F. 1 SET PER DOOR CO-12 PULL WITH CP-II PUSH BAR
G. 1 KAWNEER A 1/2"x6 3/4" ALUMINUM MILL FINISH THRESHOLD

TYPE 6: APARTMENT PRIVACY
A. 1 1/2 PAIR HAGER BALL BEARING BB1279-4 1/2 x 4 1/2 x US26D
B. 1 SCHLAGE AL40S SAT (BATH/BEDROOM PRIVACY), US26D FINISH
C. 3 GLYNN JOHNSON SILENCERS
D. 1 SCHLAGE 1013 STRIKE 1 1/2" LIP LENGTH

TYPE 7: CLOSET
A. 1 1/2 PAIR HAGER BALL BEARING BB1279-4 1/2 x 4 1/2 x US26D
B. 1 SCHLAGE AL10S SAT (PASSAGE), US26D FINISH
C. 3 GLYNN JOHNSON SILENCERS
D. 1 SCHLAGE 1013 STRIKE 1 1/2" LIP LENGTH

TYPE 8: APARTMENT ENTRANCE
A. 1 1/2 PAIR HAGER BALL BEARING BB1279-4 1/2 x 4 1/2 x US26D
B. 1 HOTEL KEYCARD OPERATION DOOR SET
C. 3 GLYNN JOHNSON SILENCERS
D. 1 SCHLAGE 1013 STRIKE 1 1/2" LIP LENGTH
E. 1 ALUMINUM THRESHOLD
F. WEATHER STRIPPING

TYPE 9: ENTRANCE/OFFICE LOCK
A. 1 1/2 PAIR HAGER BALL BEARING BB1279-4 1/2 X 4 1/2 x US26D
B. 1 SCHLAGE AL50PD SAT (ENTRANCE, OFFICE), US26D FINISH
C. 3 GLYNN JOHNSON SILENCERS
D. 1 SCHLAGE 1013 STRIKE 1 1/2" LIP LENGTH
E. 1 ALUMINUM THRESHOLD
F. WEATHER STRIPPING

TYPE 10: ALUMINUM STOREFRONT
A. 1 PAIR IVES#7215-INT INTERMEDIATE OFFSET PIVOTS
B. 1 ADAMS RITE 8200 SERIES NARROW STILE VERTICAL ROD EXIT DEVICE
C. 1 ADAMS RITE PUSH BAR, US32D FINISH WITH MATCHING END CAPS
D. 1 LCN PARALLEL ARM CLOSER 4050 SERIES, US26D FINISH
E. 1 BOTTOM DOOR SWEEPS
F. 1 KAWNEER A 1/2"x6 3/4" ALUMINUM MILL FINISH THRESHOLD

Door Schedule

Mark	Phase Created	Width	Height	Door Type	Thickness	Head Detail	Jamb Detail	Hardware Schedule	Comments
100X	New Construction	3' - 0"	6' - 8"	D4	1 3/4"			10	
100Y	New Construction	3' - 0"	6' - 8"	D4	1 3/4"			10	
101X	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	1	
101Y	New Construction	3' - 0"	6' - 8"	D2	1 3/4"	1	1	1	
102A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
102C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
103A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
103C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
104A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
104C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
105A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
105C	New Construction	2' - 4"	6' - 8"	D1	1 3/4"	1	1	6	
106A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
106C	New Construction	2' - 4"	6' - 8"	D1	1 3/4"	1	1	6	
107A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
107C	New Construction	2' - 4"	6' - 8"	D1	1 3/4"	1	1	6	
108A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
108C	New Construction	2' - 4"	6' - 8"	D1	1 3/4"	1	1	6	
109A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
109C	New Construction	2' - 4"	6' - 8"	D1	1 3/4"	1	1	6	
110A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
110C	New Construction	2' - 4"	6' - 8"	D1	1 3/4"	1	1	6	
111A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
111C	New Construction	3' - 0"	6' - 8"	D1	1 3/4"	1	1	6	
112A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
112C	New Construction	3' - 0"	6' - 8"	D1	1 3/4"	1	1	6	
113A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
113C	New Construction	3' - 0"	6' - 8"	D1	1 3/4"	1	1	6	
114A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
114C	New Construction	3' - 0"	6' - 8"	D1	1 3/4"	1	1	6	
115A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
115C	New Construction	3' - 0"	6' - 8"	D1	1 3/4"	1	1	6	
116A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
116C	New Construction	3' - 0"	6' - 8"	D1	1 3/4"	1	1	6	
117A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
117C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
118A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
118C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
119A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
119C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
120A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
120C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
121A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
121C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
122A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
122C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
123A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
123C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
124A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
124C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
125A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
125C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
126A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
126C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
127A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
127C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
128A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
128C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
129A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
129C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
130A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
130C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
131A	New Construction	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
131C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
132A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	1	
133X	New Construction	3' - 0"	7' - 0"	D2	1 3/4"	8	8	1	3/4 HR RATED
133Y	New Construction	3' - 0"	7' - 0"	D2	1 3/4"	9	9	1	1 HR RATED
200X	Existing	3' - 0"	6' - 8"	D4	1 3/4"			4	
200Y	Existing	3' - 0"	6' - 8"	D4	1 3/4"			4	
201A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
201C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
202A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
202C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
203A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
203C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
204A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
204C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
205A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
205C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
206A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
206C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
207A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
207C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
208A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
208C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
209A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
209C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
210A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
210C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
211A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
211C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
212A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
212C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
213A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
213C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
214A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
214C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
215A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
215C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
216A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
216C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	

Door Schedule

Mark	Phase Created	Width	Height	Door Type	Thickness	Head Detail	Jamb Detail	Hardware Schedule	Comments
217A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
217C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
218A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
218C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
219A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
219C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
220A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
220C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
221A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
221C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
222A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
222C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
223A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
223C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
224A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
224C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
225A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
225C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
226A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
226C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
227A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
227C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
228A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
228C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
229A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
229C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
230A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
230C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
231A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
231C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
232A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
232C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
233X	New Construction	3' - 0"	6' - 8"	D2	1 3/4"	8	8	1	3/4 HR RATED
300X	Existing	3' - 0"	6' - 8"	D4	1 3/4"			4	
300Y	Existing	3' - 0"	6' - 8"	D4	1 3/4"			4	
301A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
301C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
302A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
302C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
303A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
303C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
304A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
304C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
305A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
305C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
306A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
306C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
307A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
307C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
308A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
308C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
309A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
309C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
310A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
310C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
311A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
311C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
312A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
312C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
313A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
313C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
314A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
314C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
315A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
315C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
316A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
316C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
317A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
317C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
318A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
318C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
319A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
319C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
320A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
320C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
321A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
321C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
322A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
322C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
323A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
323C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
324A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
324C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
325A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
325C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
326A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
326C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
327A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
327C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
328A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
328C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
329A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
329C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
330A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
330C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
331A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
331C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
332A	Existing	3' - 0"	6' - 8"	D2	1 3/4"	4	4	8	
332C	New Construction	2' - 6"	6' - 8"	D1	1 3/4"	1	1	6	
333X	New Construction	3' - 0"	6' - 8"	D2	1 3/4"	8	8	1	3/4 HR RATED

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)
400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

March Adams & Associates
Consulting Engineers
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

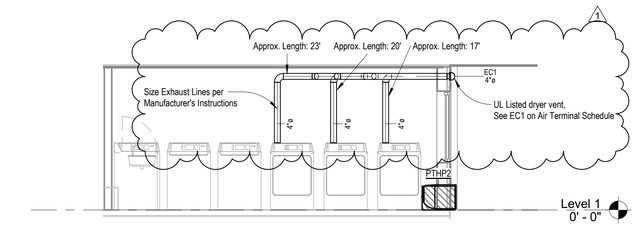
9/03/2021

DRAWN:	75
CHECKED:	Checker
JOB No.	21-008
DATE:	September 3, 2021

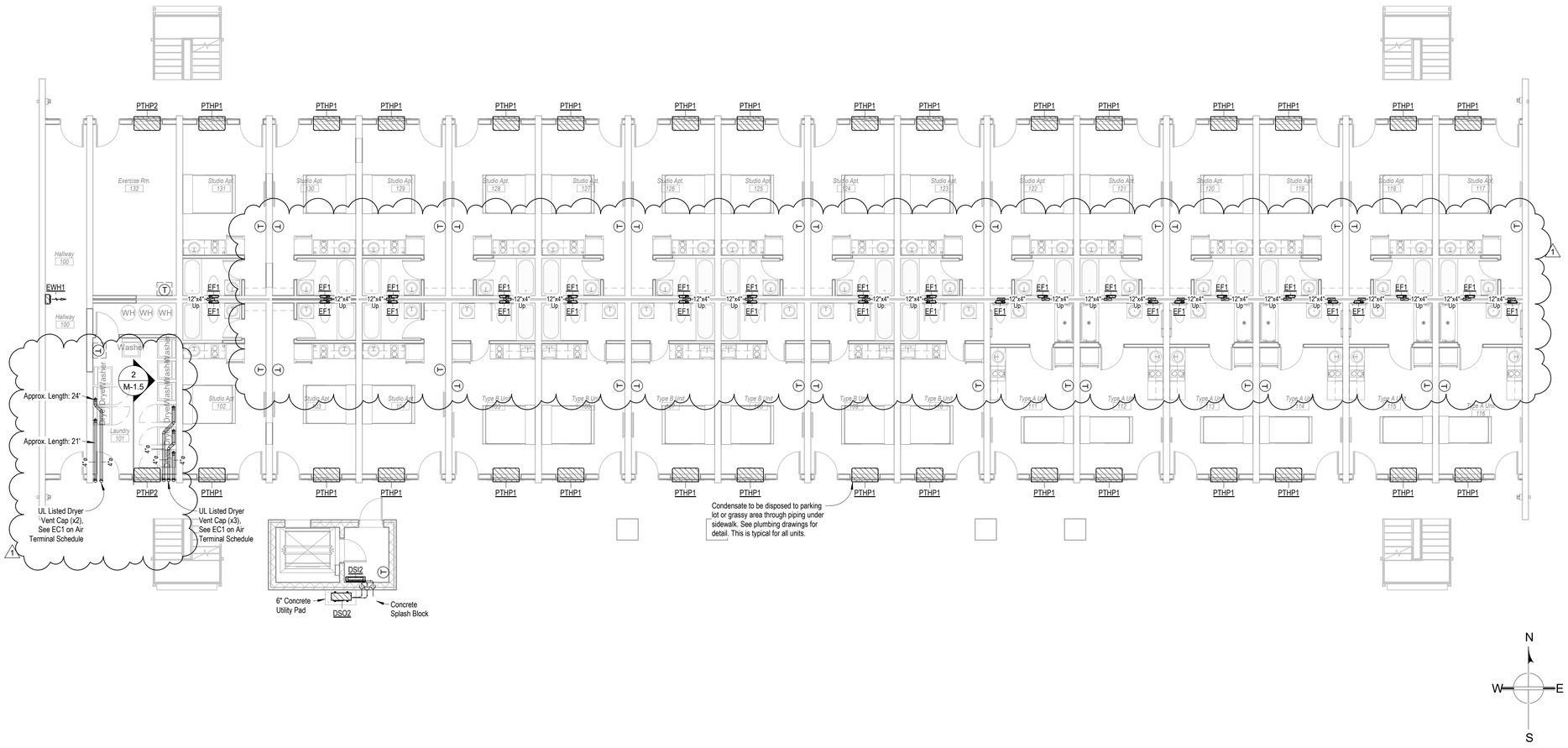
B-6.1

BUILDING - B
Door Schedule and Hardware

Garbee Architecture
PH: 423.364.2830



2 Typical Dryer Section
1/4" = 1'-0"



1 Level 1 Mechanical Plan - Building B
1/8" = 1'-0"

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)

400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

March Adams & Associates
Consulting Engineers

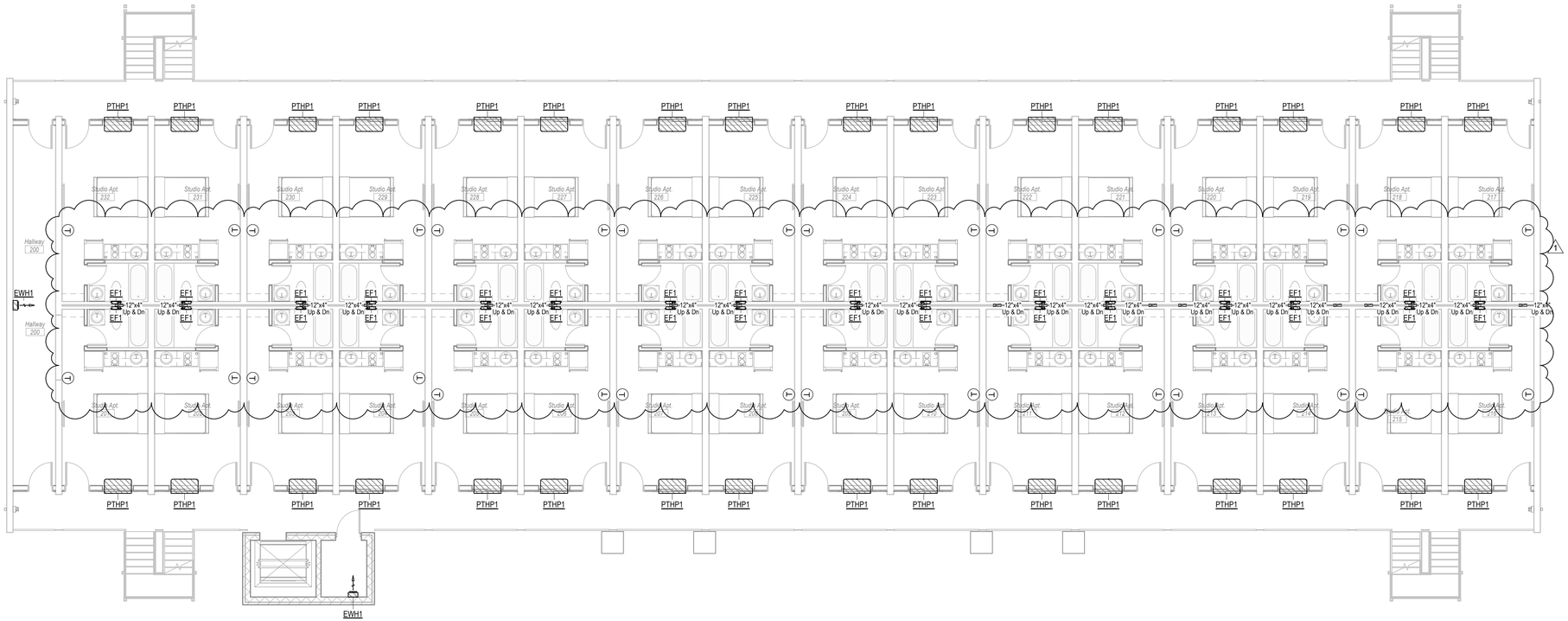
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

JEFFREY WESLEY SUMMERS
REGISTERED PROFESSIONAL ENGINEER
AGRICULTURE
03/25/2022
NO. 110599
STATE OF TENNESSEE

DRAWN:	TCLJ
CHECKED:	CJW
JOB No.	21205
DATE:	02-18-2022

M-1.5

LEVEL 1 MECHANICAL PLAN - BLDG B



1 Level 2 Mechanical Plan - Building B
1/8" = 1'-0"

Revisions		
#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)

400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

March Adams & Associates
Consulting Engineers

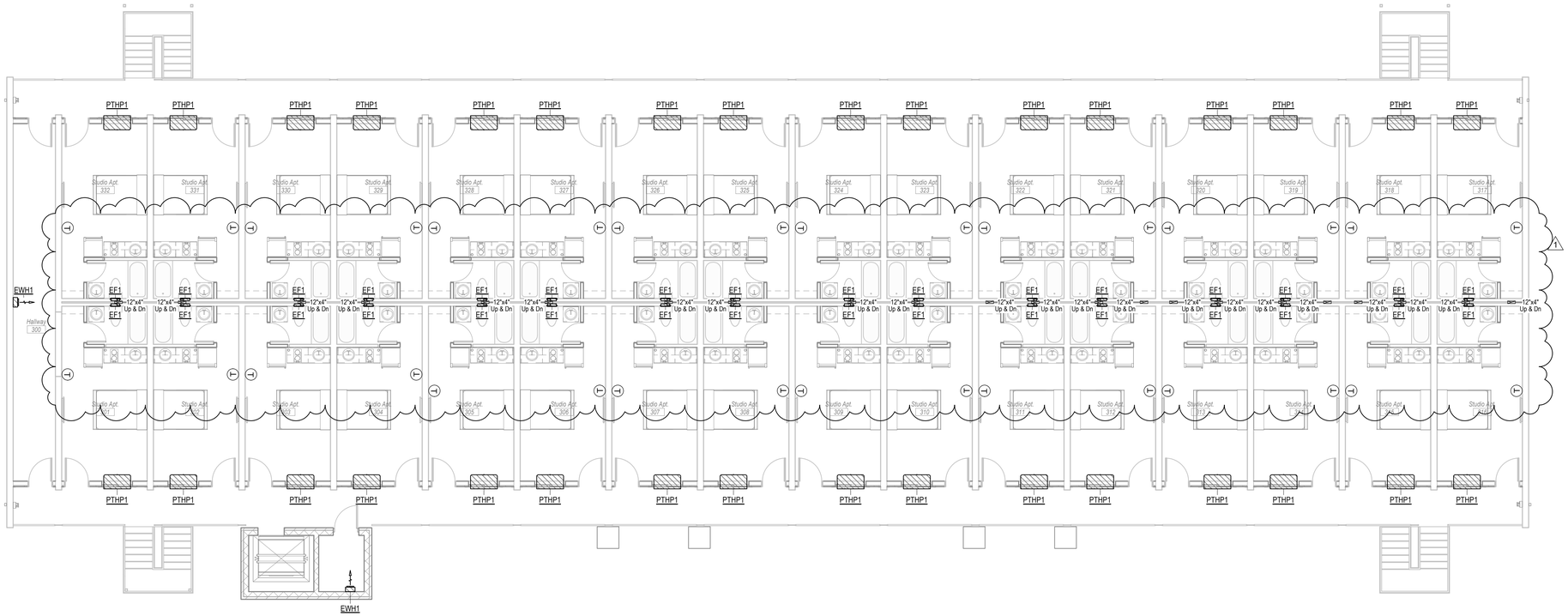
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

JEFFREY WESLEY SUMMERS — REGISTERED — AGRICULTURE — No. 110599 — STATE OF TENNESSEE
03/25/2022

DRAWN:	TCLJ
CHECKED:	CJW
JOB No.	21205
DATE:	02-18-2022

M-1.6

LEVEL 2 MECHANICAL PLAN - BLDG B



1 Level 3 Mechanical Plan - Building B
1/8" = 1'-0"

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)
400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

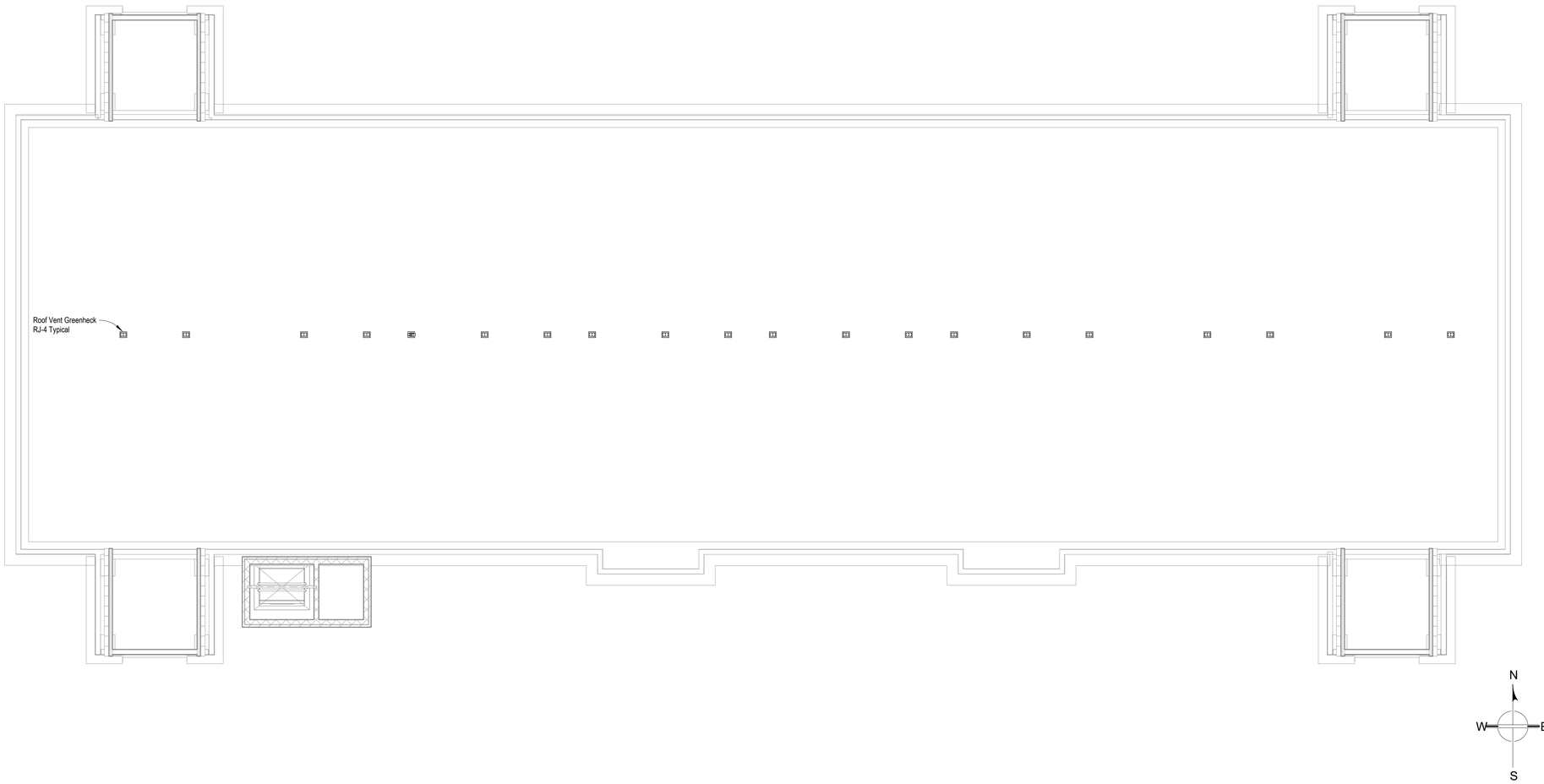
March Adams & Associates
Consulting Engineers
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

CLIFFREY WESLEY JOHNSON
REGISTERED PROFESSIONAL ENGINEER
AGRICULTURE
03/25/2022
No. 110559
STATE OF TENNESSEE

DRAWN:	TCLJ
CHECKED:	CJW
JOB No.	21205
DATE:	02-18-2022

M-1.7

LEVEL 3 MECHANICAL PLAN - BLDG B



1 Roof Mechanical Plan - Building B
1/8" = 1'-0"

Revisions

#	REVISION	DATE

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)

400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

March Adams & Associates
Consulting Engineers

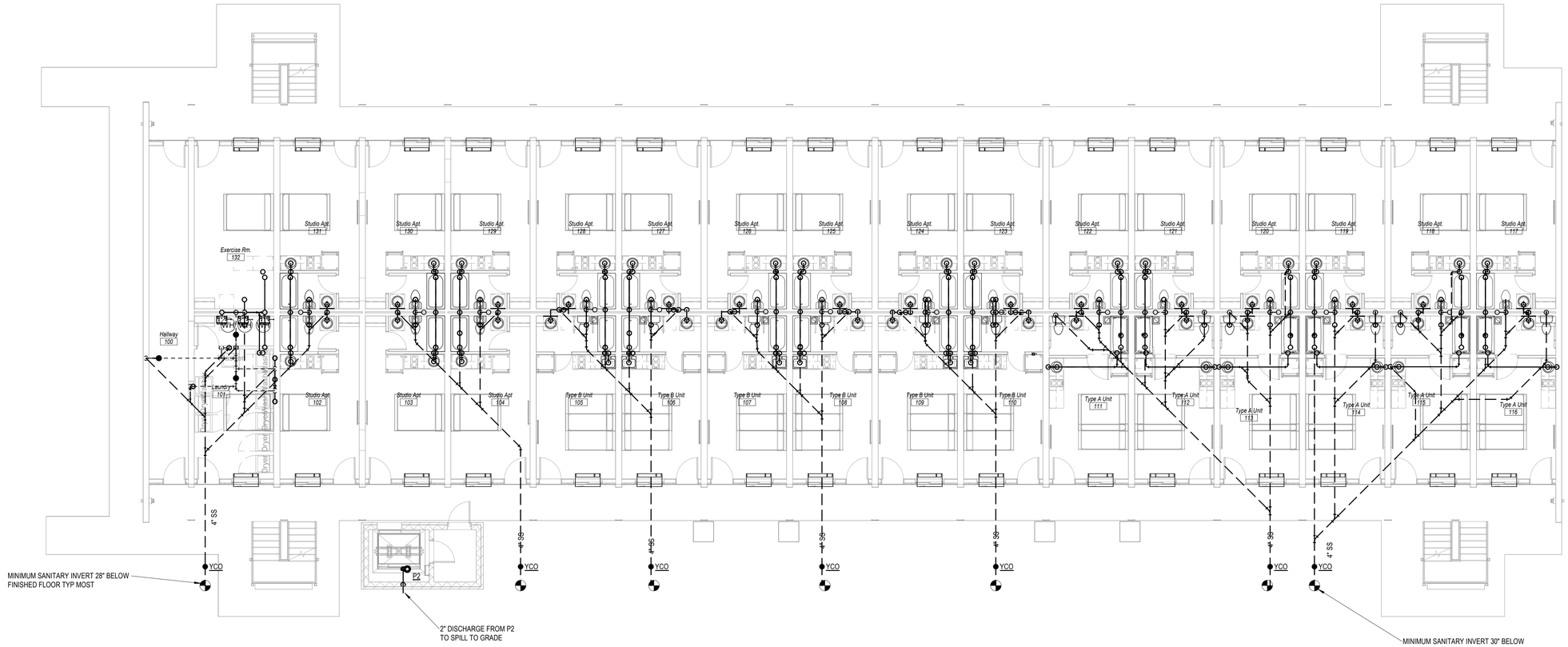
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

JEFFREY WESLEY BURGE
REGISTERED PROFESSIONAL ENGINEER
AGRICULTURE
No. 110599
STATE OF TENNESSEE
09/03/2021

DRAWN:	HSW
CHECKED:	HSW/CJW
JOB No.	21205
DATE:	09-03-21

M-1.8

ROOF MECHANICAL PLAN - BLDG B



1 Level 1 Sanitary Plan Building B
1/8" = 1'-0"

N
W E
S

REVISED PER NEW ARCHITECTURAL LAYOUT
1

Revisions

#	REVISION	DATE
1	ADD #1 CITY REVIEW COMMENTS	3/25/22

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)

400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

March Adams & Associates
Consulting Engineers

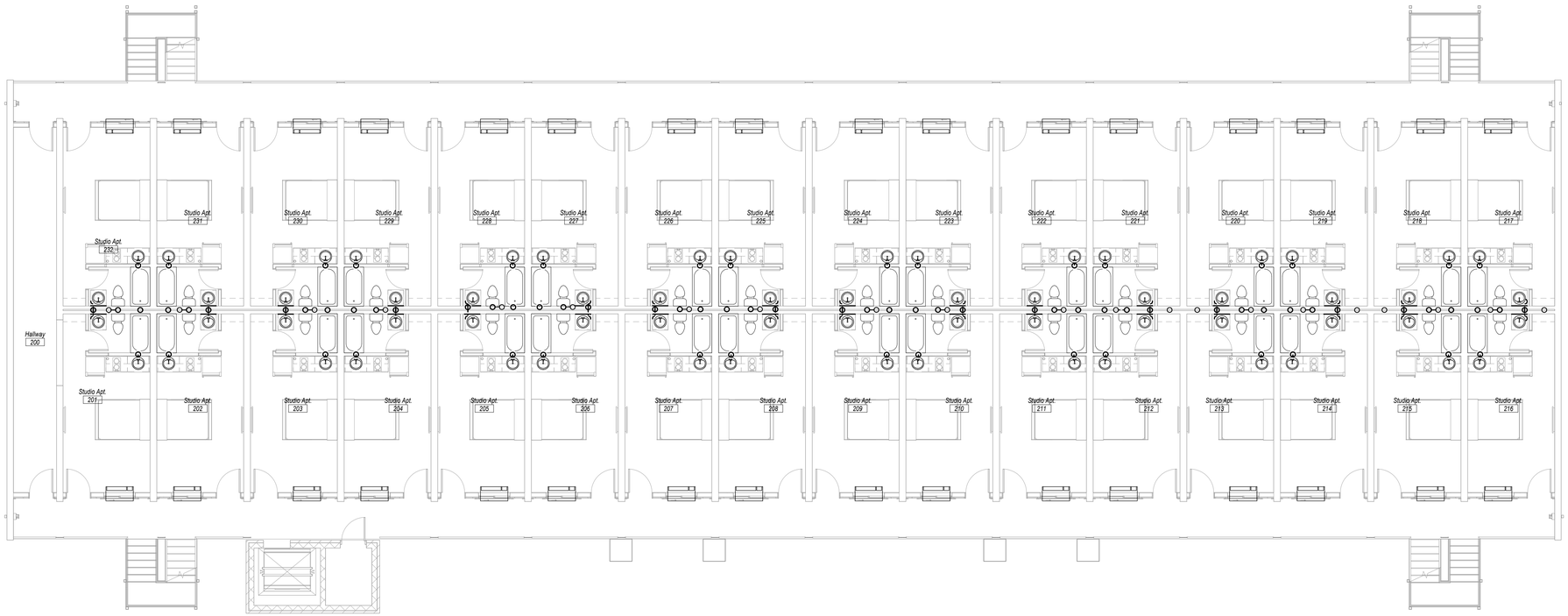
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

C. JEFFREY WEST BROOKS
REGISTERED PROFESSIONAL ENGINEER
AGRICULTURE
CIVIL
STRUCTURAL
COMMERCIAL
No. 110599
STATE OF TENNESSEE
2022

DRAWN:	RML
CHECKED:	CJW
JOB No.	21205
DATE:	3-25-2022

P-1.4

Level 1 Sanitary Plan-Building B



1 Level 2 Sanitary Plan Building B
1/8" = 1'-0"

N
W E
S

REVISED PER NEW ARCHITECTURAL LAYOUT
1

Revisions

#	REVISION	DATE
1	ADD #1 CITY REVIEW COMMENTS	3/25/22

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)

400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

March Adams & Associates
Consulting Engineers

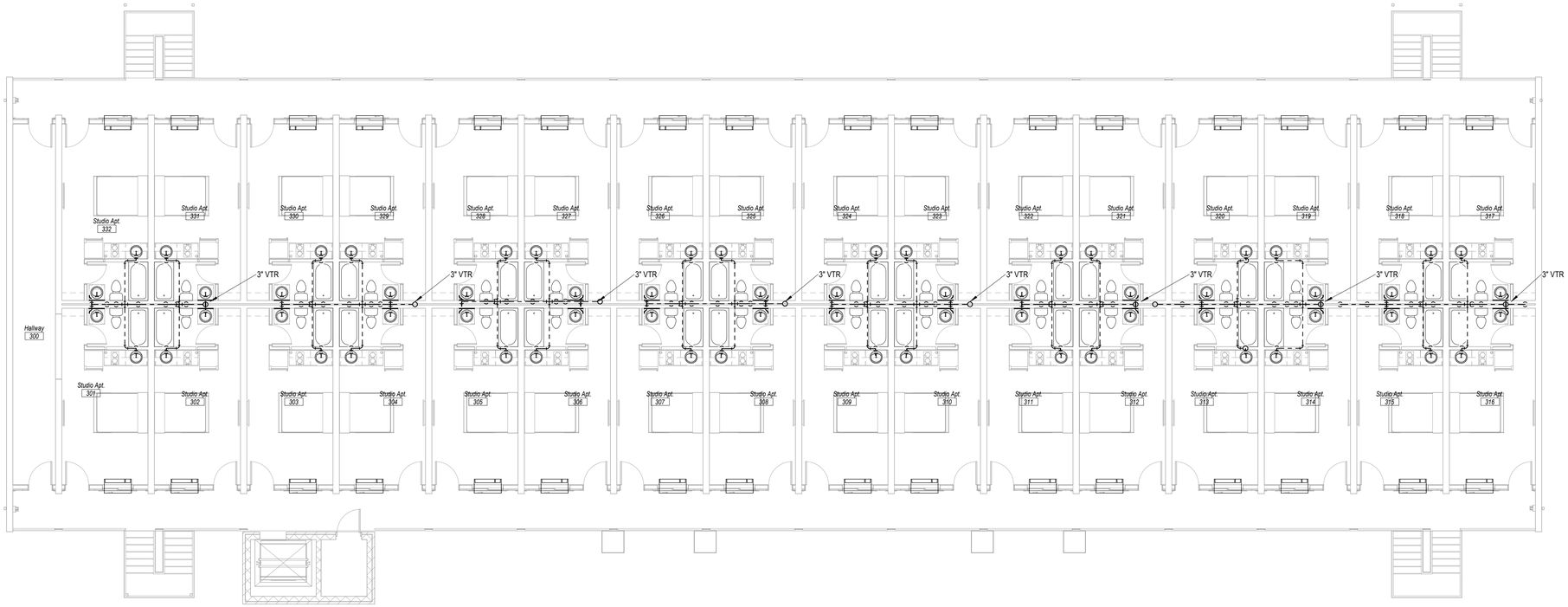
310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

C. JEFFREY WESTBROOK
REGISTERED PROFESSIONAL ENGINEER
AGRICULTURE
COMMERCE
NO. 110599
STATE OF TENNESSEE
3-25-2022

DRAWN:	RML
CHECKED:	CJW
JOB No.	21205
DATE:	3-25-2022

P-1.5

Level 2 Sanitary Plan-Building B



1 Level 3 Sanitary Plan Building B
1/8" = 1'-0"

N
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REVISED PER NEW ARCHITECTURAL LAYOUT
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Revisions

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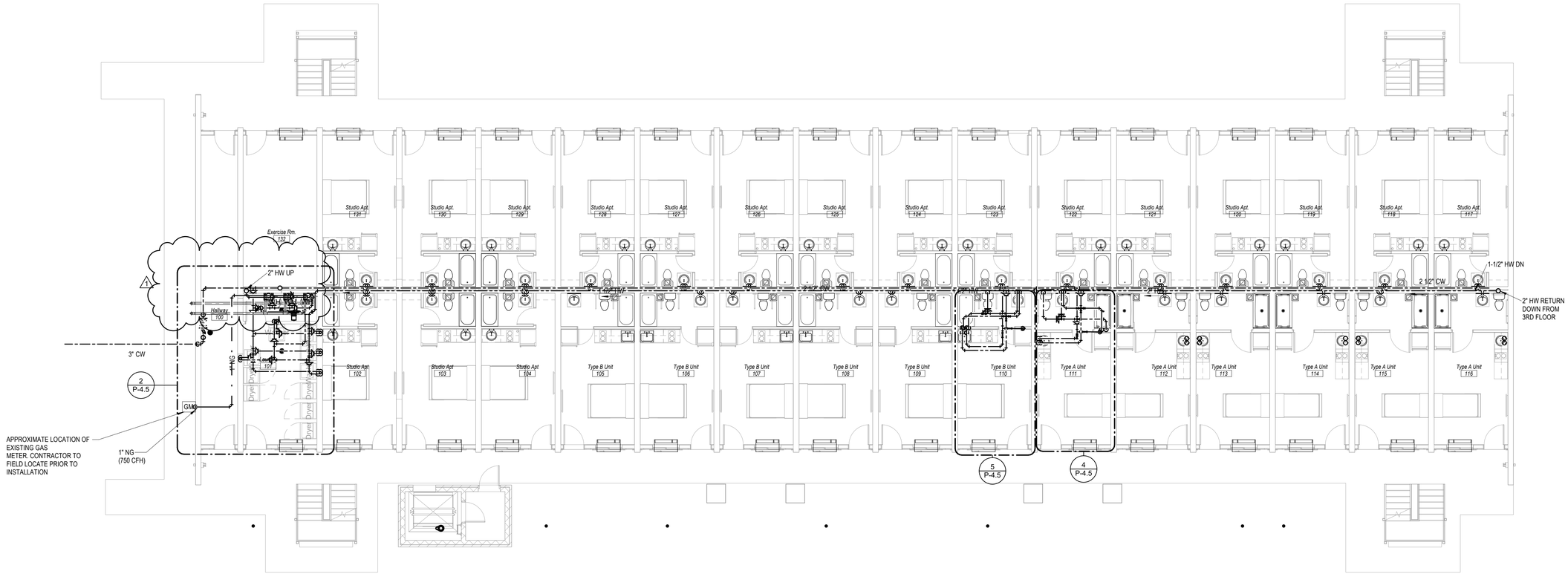
C. JEFFREY WESTBROOK
REGISTERED PROFESSIONAL ENGINEER
ARCHITECTURE
COMMERCIAL
No. 110599
STATE OF TENNESSEE
2022

DRAWN:	RML
CHECKED:	CJW
JOB No.	21205
DATE:	3-25-2022

P-1.6

Level 3 Sanitary Plan-Building B



1 Level 1 Domestic Water Plan Building B
1/8" = 1'-0"

Revisions

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KNOXVILLE INN RENOVATIONS

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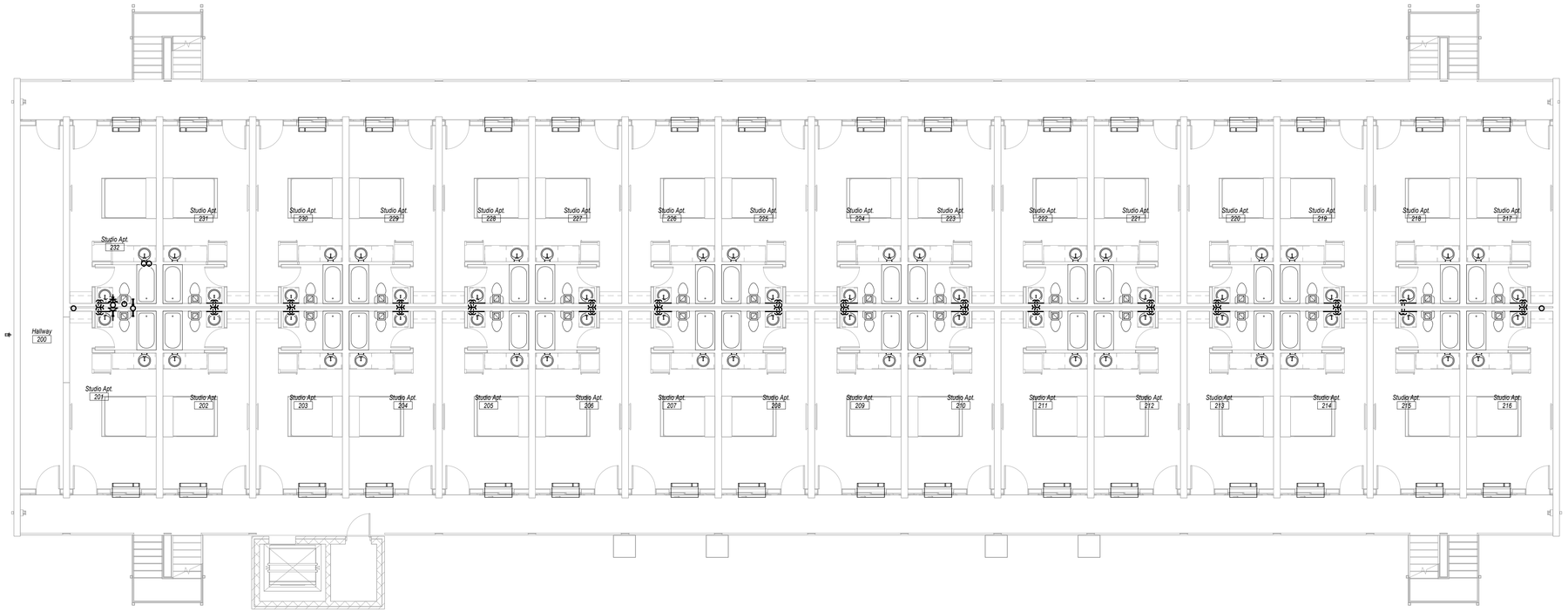
Chattanooga, Tennessee 37404
PH: (423)698-6675

C. JEFFREY WEST BROOKS
REGISTERED PROFESSIONAL ENGINEER
AGRICULTURE
COMMERCE
No. 119509
STATE OF TENNESSEE
3/25/2022

DRAWN:	RML
CHECKED:	CJW
JOB No.	21205
DATE:	3-25-2022

P-2.4

Level 1 Domestic Water Plan- Building B



1 Level 2 Domestic Water Plan Building B
1/8" = 1'-0"

N
W E
S

REVISED PER NEW ARCHITECTURAL LAYOUT
1

Revisions

#	REVISION	DATE
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KNOXVILLE INN RENOVATIONS

at

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KNOXVILLE, TN 37917

for

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ATTN: JOHN PATEL (PRES)

400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

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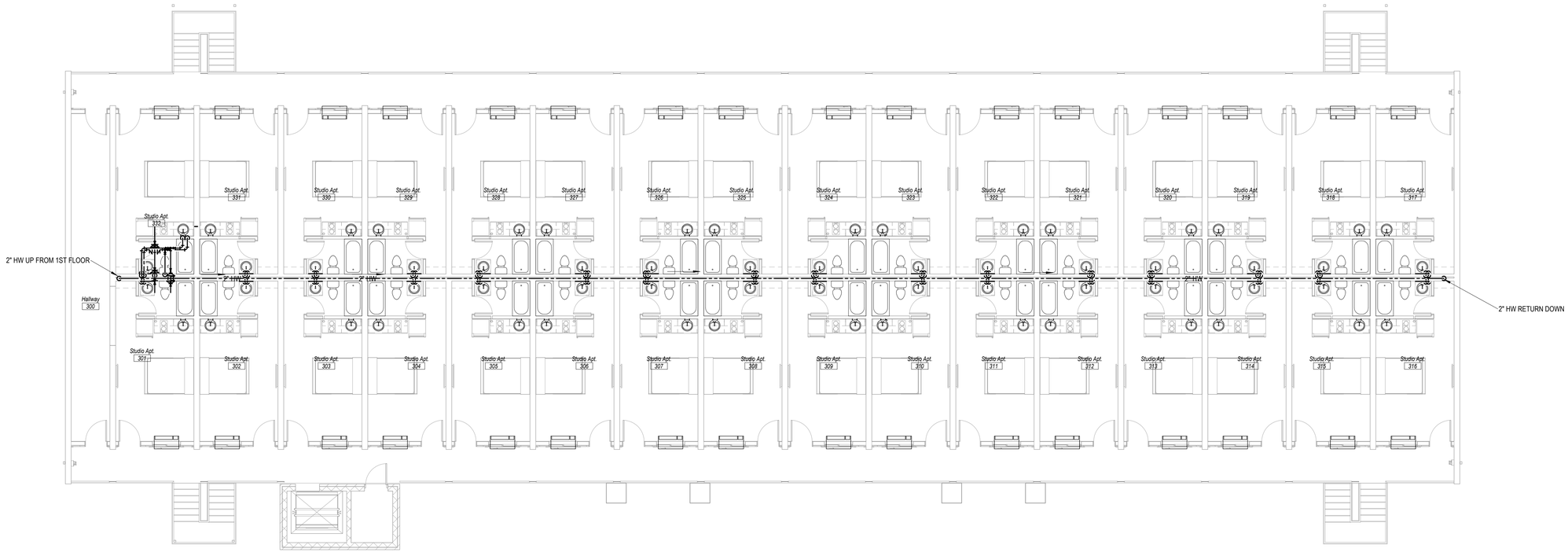
C. JEFFREY WESTBROOK REGISTERED PROFESSIONAL ENGINEER AGRICULTURE CIVIL COMMERCIAL No. 110599 STATE OF TENNESSEE 2022

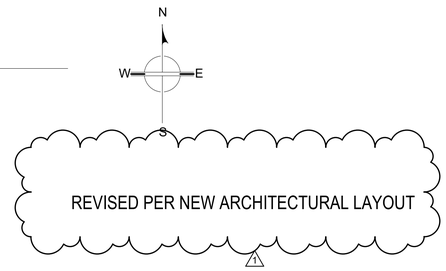
DRAWN:	RML
CHECKED:	CJW
JOB No.	21205
DATE:	3-25-2022

P-2.5

Level 2 Domestic Water Plan- Building B



1 Level 3 Domestic Water Plan Building B
1/8" = 1'-0"



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KNOXVILLE INN RENOVATIONS

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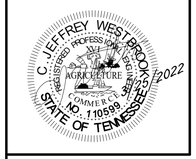
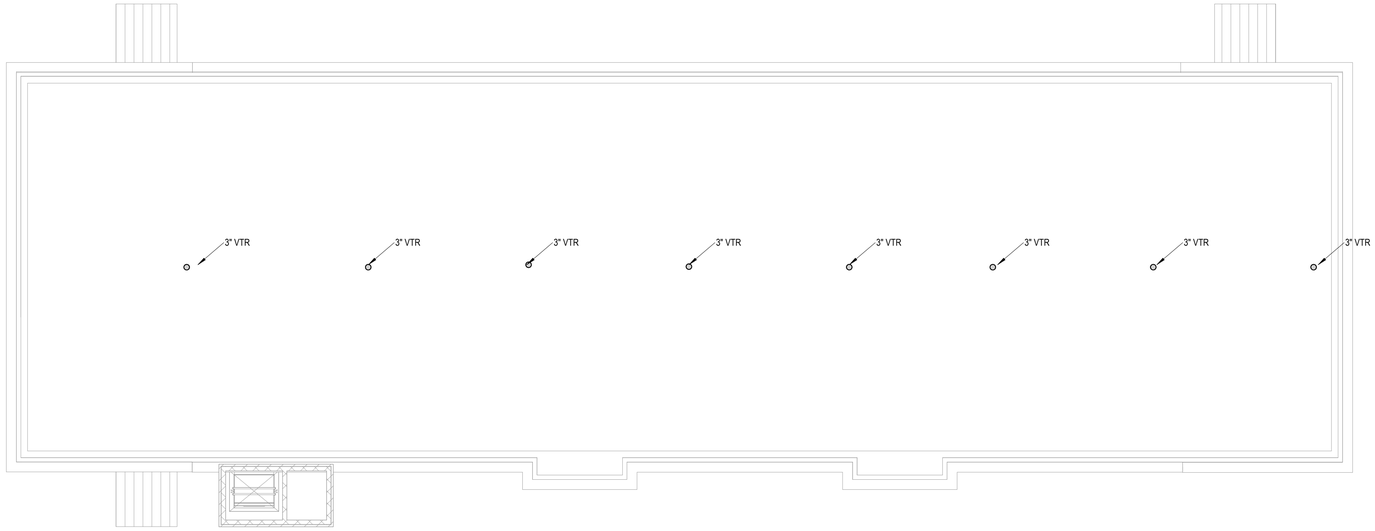
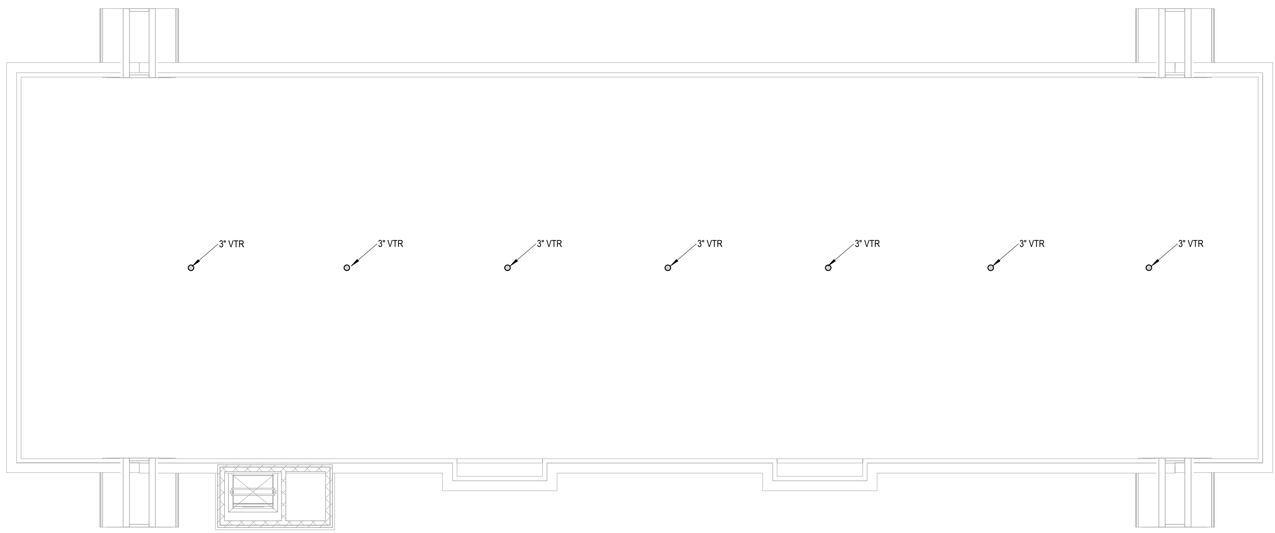


DRAWN:	RML
CHECKED:	CJW
JOB No.	21205
DATE:	3-25-2022

P-2.6

Level 3 Domestic Water Plan- Building B





1 Roof Buildings A and B
3/32" = 1'-0"

Revisions

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No. 110599
STATE OF TENNESSEE
2022

DRAWN:	RML
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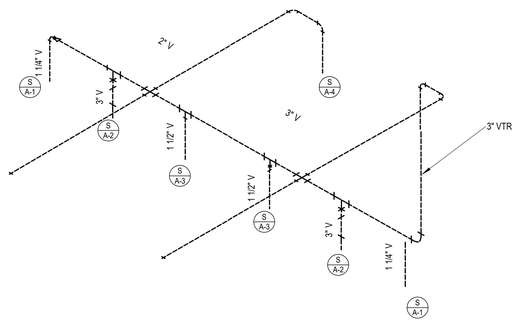
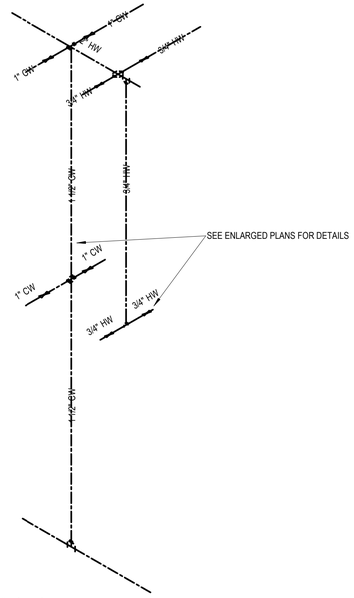
DATE:	3-25-2022

P-3.1

Roof Plan- Buildings A and B

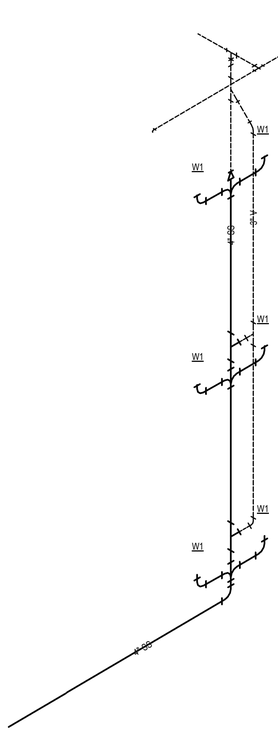


6 Vent Connections

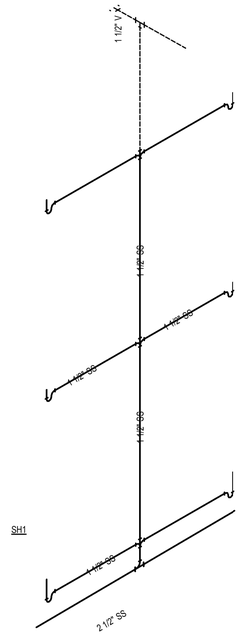


7 Domestic Water Riser

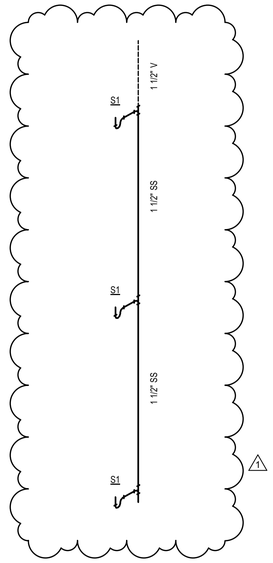
1 S-A1 Riser



2 S-A2 Riser



3 S-A3 Riser



4 S-A4 Riser

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No. 110599
STATE OF TENNESSEE
3-25-2022

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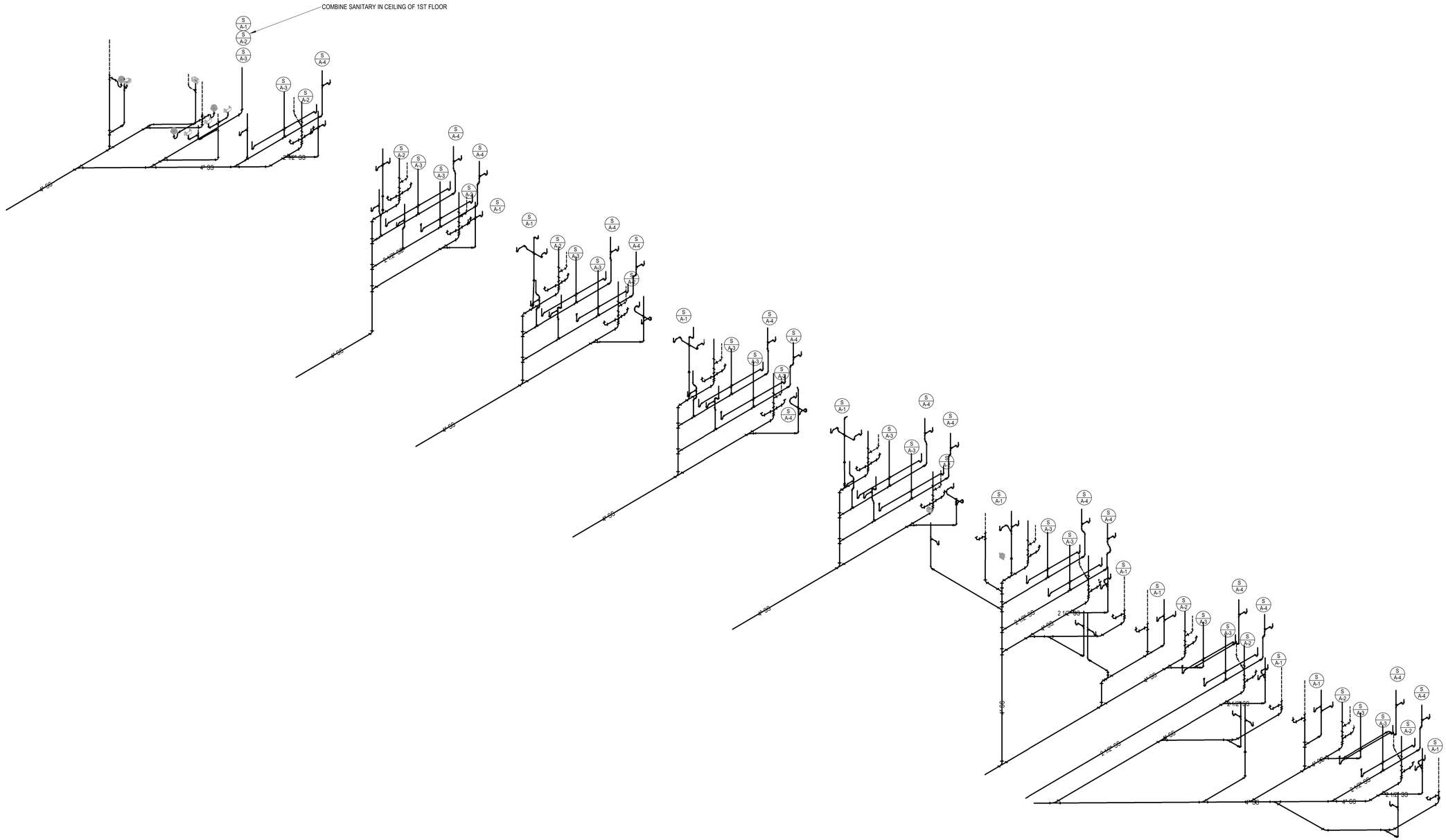
P-4.1

Plumbing Riser Diagrams



1 Level 1 Sanitary Isometric-Building B

Revisions

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COMMERCIAL
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STATE OF TENNESSEE
3/25/2022

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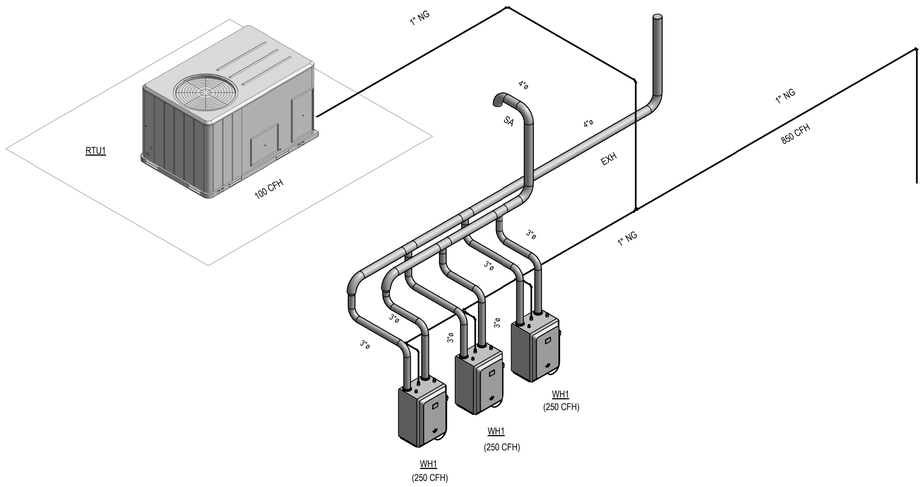
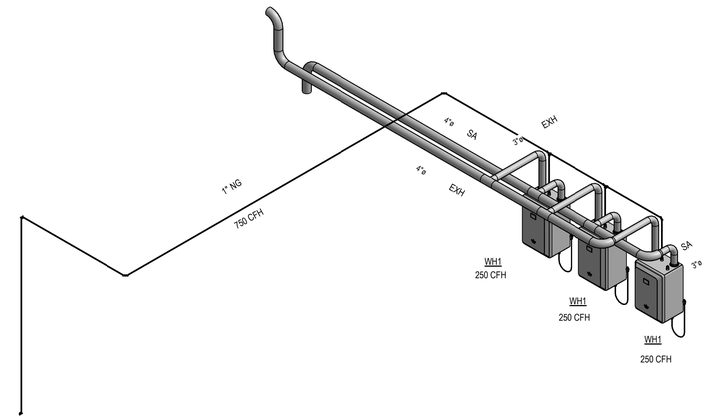
DATE:	3-25-2022

P-4.3

Level 1 Sanitary Isometric- Building B



1 Natural Gas Isometric-Building A



2 Natural Gas Isometric-Building B

NEW SHEET ISSUED 1

Revisions

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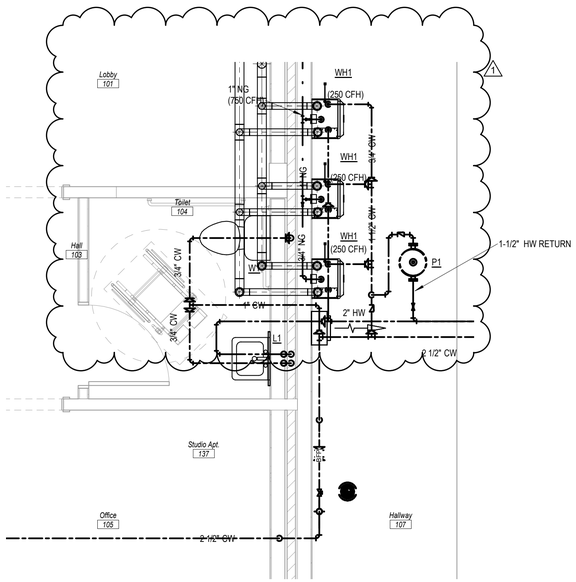
CIVIL
COMMERCIAL
NO. 110599
STATE OF TENNESSEE
3/25/2022

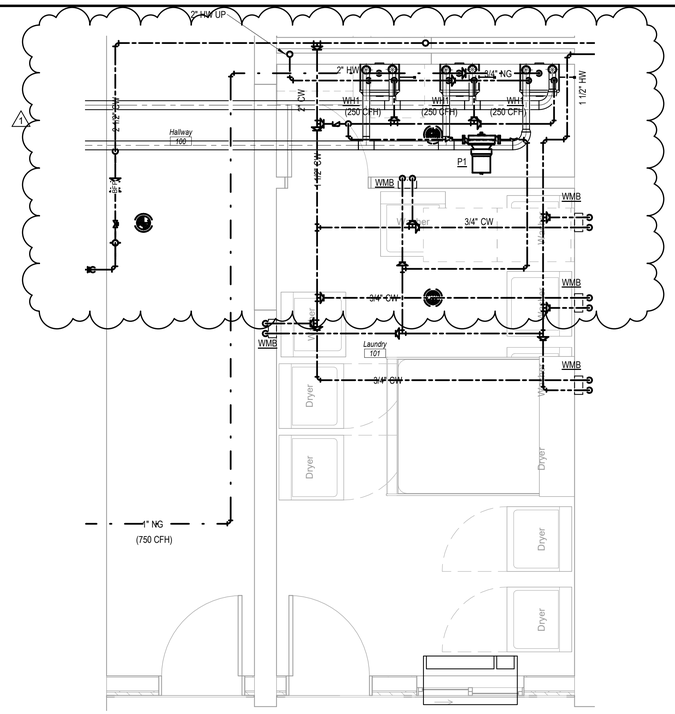
DRAWN:	RML
CHECKED:	CJW
JOB No.	21205
DATE:	3-25-2022

P-4.4

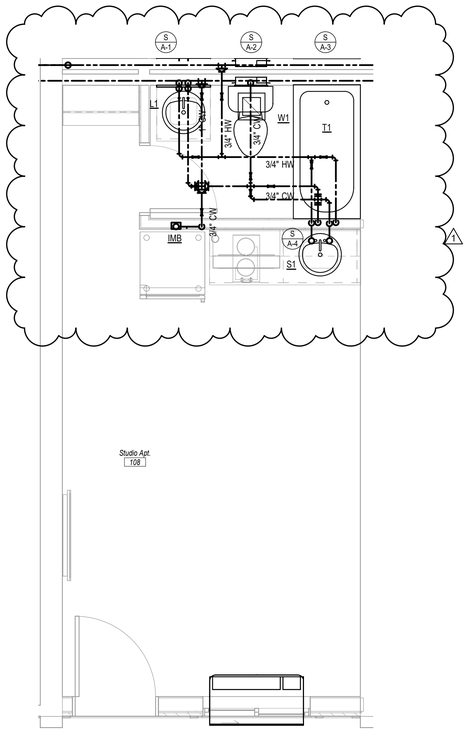
Natural Gas Isometrics



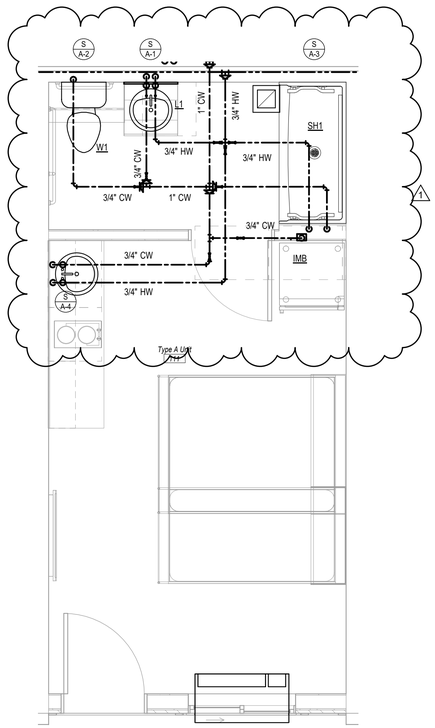
1 BUILDING A HALLWAY
3/8" = 1'-0"



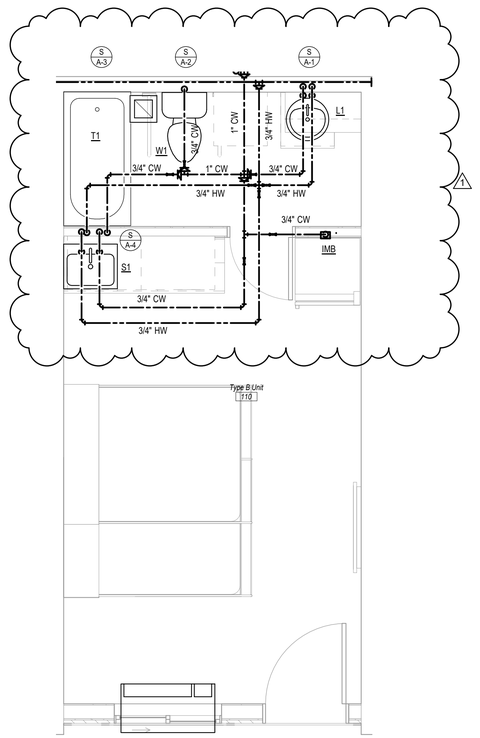
2 BUILDING B LAUNDRY
3/8" = 1'-0"



3 STUDIO APT. UNIT TYP.
3/8" = 1'-0"



4 TYPE A UNIT TYP.
3/8" = 1'-0"



5 TYPE B UNIT TYP.
3/8" = 1'-0"

Revisions

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for

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ATTN: JOHN PATEL (PRES)

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C. JEFFREY WESTBROOK
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AGRICULTURE
COMMERCIAL
No. 110599
STATE OF TENNESSEE
2022

DRAWN:	RML
CHECKED:	CJW
JOB No.	21205
DATE:	3-25-2022

P-4.5

Enlarged Plans

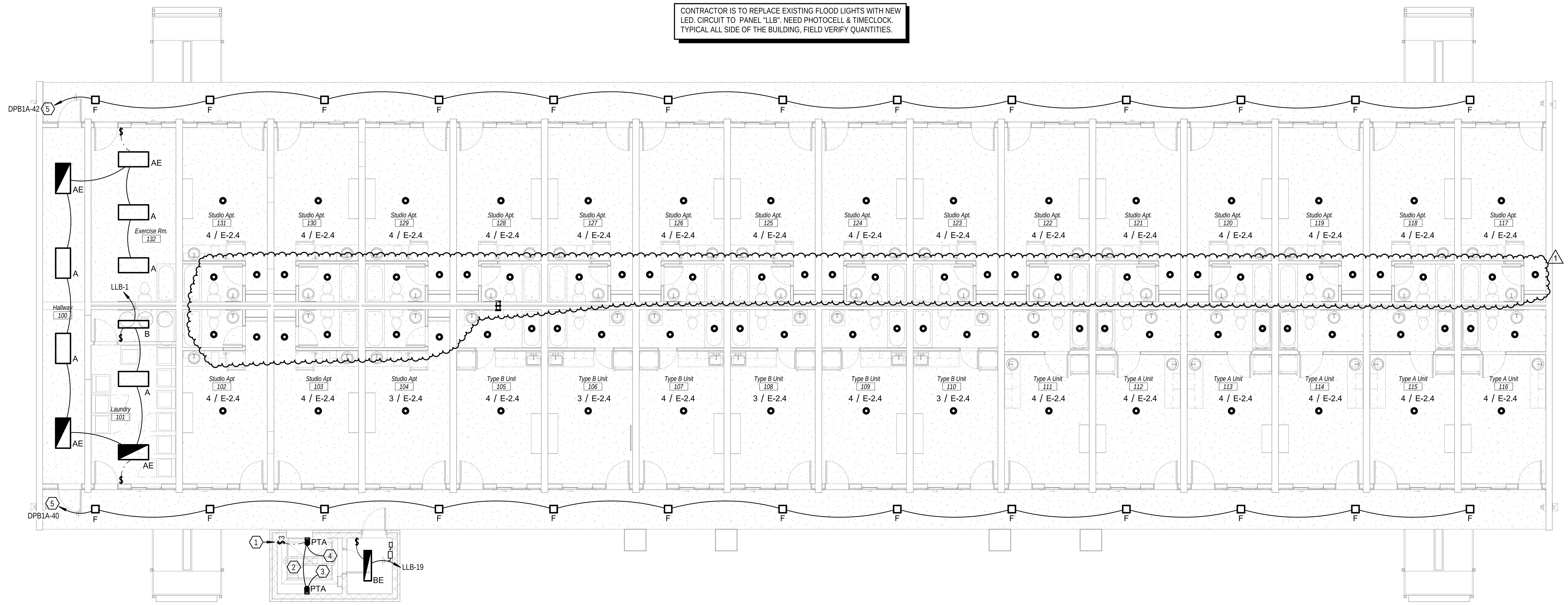
PUBLIC AREA LIGHTING CONTROLS

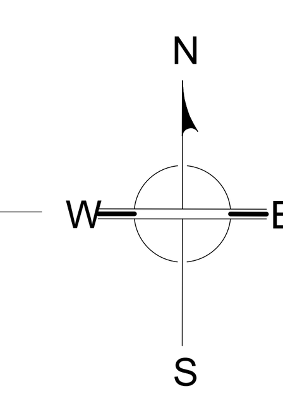
PUBLIC AREA LIGHTING IS TO BE CONTROLLED AS FOLLOWS:
- EXTERIOR WALKWAY LIGHTING TO BE CONTROLLED BY A PHOTOCELL VIA A LIGHTING CONTACTOR.
- THE ENCLOSED HALLWAY LIGHTING (BETWEEN THE EXTERIOR WALKWAYS) TO BE ON 24/7.

KEYNOTE LEGEND

KEY	KEYNOTE TEXT
1	LOCATE LIGHT SWITCH ADJACENT TO PIT LADDER. FIELD VERIFY LADDER LOCATION PRIOR TO DOING ANY WORK.
2	LIGHT FIXTURES IN THE BOTTOM OF THE SHAFT ARE TO BE LOCATED SO AS TO BE MOUNTED ON THE WALL BELOW THE BOTTOM MOST POINT OF THE ELEVATOR CAR. FIELD COORDINATE WITH ELEVATOR INSTALLER AND ELEVATOR PLANS.
3	RUN WIRING TO LIGHT FIXTURES AT TOP OF SHAFT.
4	CONNECT TO GFCI OUTLET IN BOTTOM OF SHAFT.
5	RUN CIRCUIT THRU LIGHTING CONTACTOR. CONTACTOR IS TO BE CONTROLLED BY PHOTOCELL.

CONTRACTOR IS TO REPLACE EXISTING FLOOD LIGHTS WITH NEW LED. CIRCUIT TO PANEL "LLB". NEED PHOTOCELL & TIMECLOCK. TYPICAL ALL SIDE OF THE BUILDING, FIELD VERIFY QUANTITIES.





1 Level 1 Lighting Plan - Building B
1/8" = 1'-0"

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

at

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KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)
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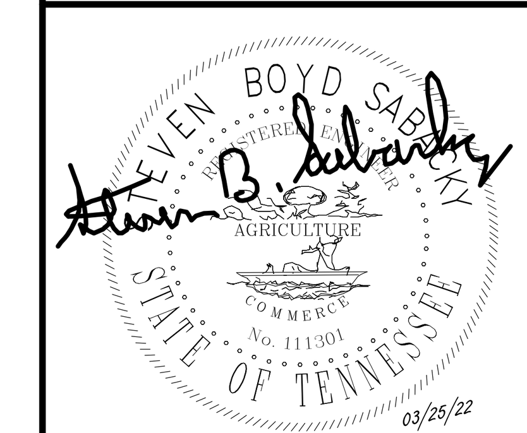


DRAWN:	JLH
CHECKED:	GWE
JOB No.	21205
DATE:	09-03-21

E-1.4

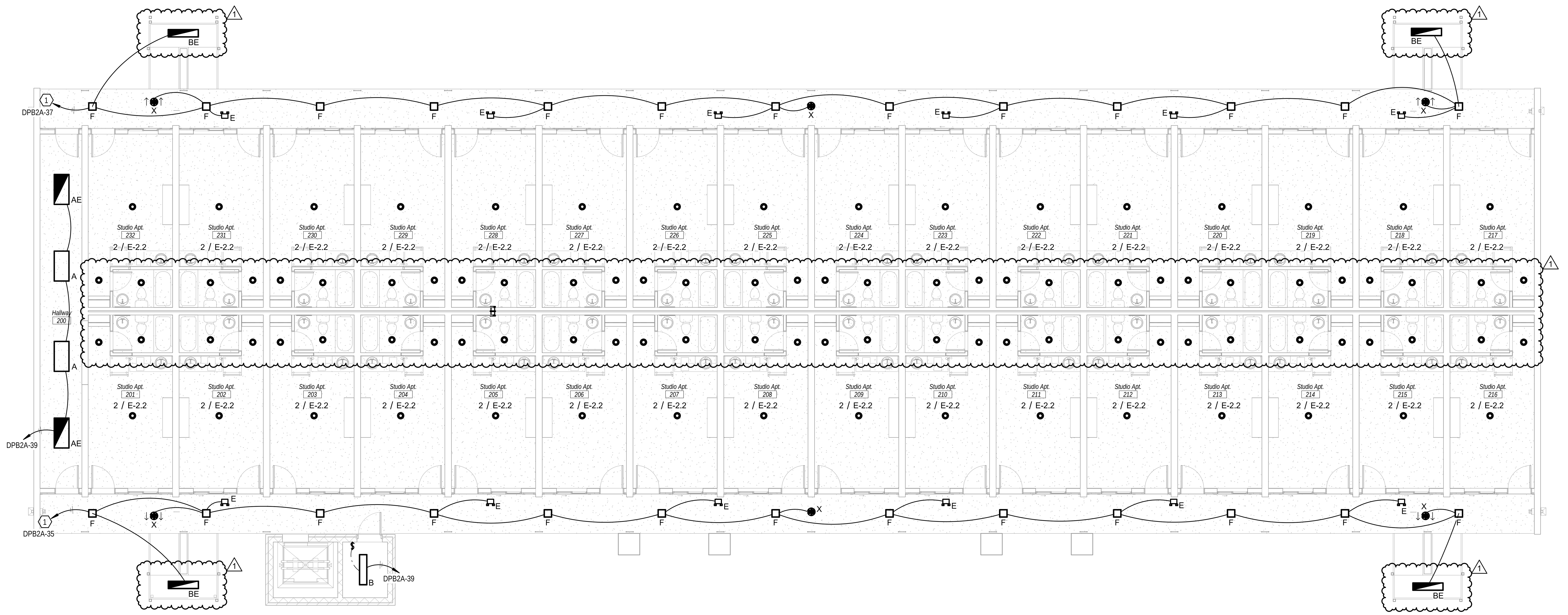
LEVEL 1 LIGHTING PLAN - BLDG B

PUBLIC AREA LIGHTING CONTROLS

PUBLIC AREA LIGHTING IS TO BE CONTROLLED AS FOLLOWS:
- EXTERIOR WALKWAY LIGHTING TO BE CONTROLLED BY A PHOTOCELL VIA A LIGHTING CONTACTOR.
- THE ENCLOSED HALLWAY LIGHTING (BETWEEN THE EXTERIOR WALKWAYS) TO BE ON 24/7.

KEYNOTE LEGEND

KEY	KEYNOTE TEXT
1	RUN CIRCUIT THRU LIGHTING CONTACTOR. CONTACTOR IS TO BE CONTROLLED BY PHOTOCELL.



1 Level 2 Lighting Plan - Building B
1/8" = 1'-0"

N
W E
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Revisions

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KNOXVILLE INN RENOVATIONS

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JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)

400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

MA &A
March Adams & Associates
Consulting Engineers

310 Dodds Ave.
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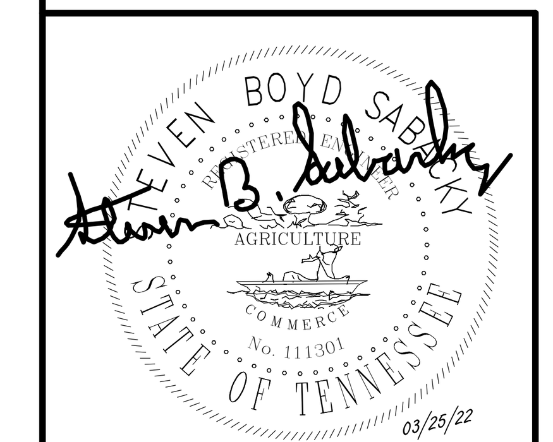
Chattanooga, Tennessee 37404
PH: (423)698-6675



DRAWN:	JLH
CHECKED:	GWE
JOB No.	21205
DATE:	09-03-21

E-1.5

LEVEL 2 LIGHTING PLAN - BLDG B

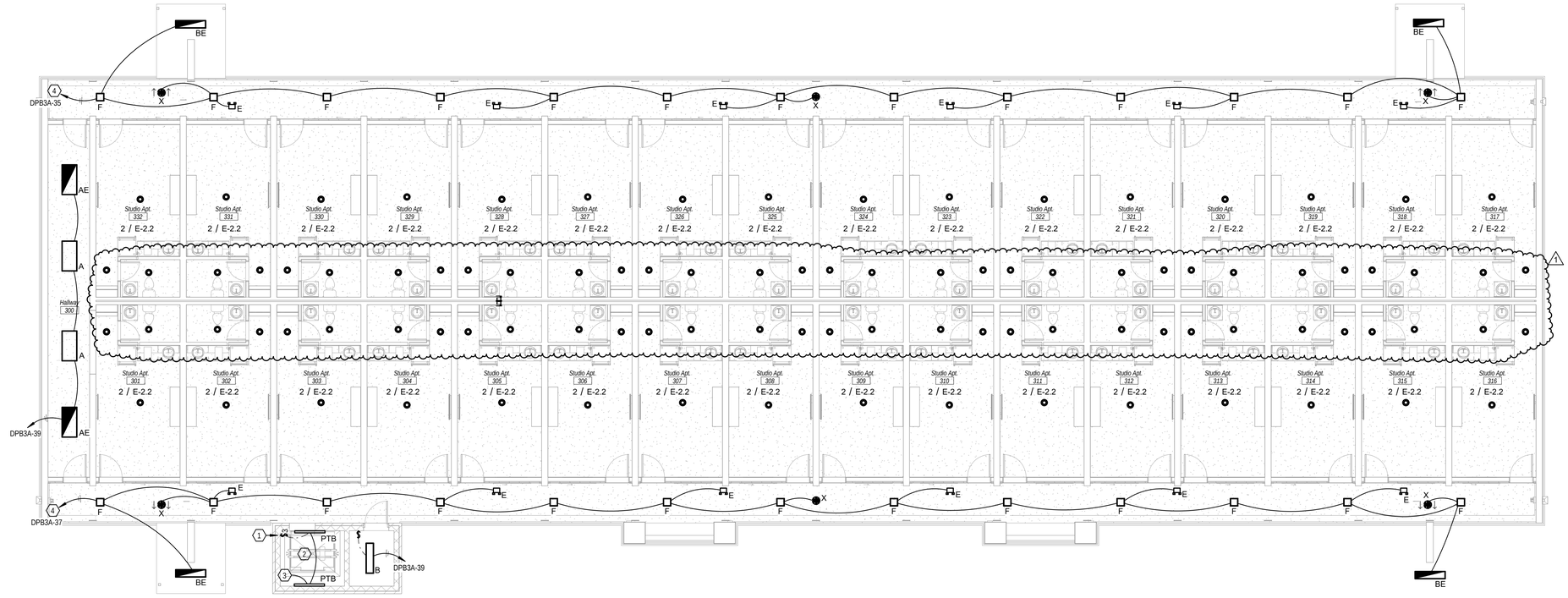
PUBLIC AREA LIGHTING CONTROLS

PUBLIC AREA LIGHTING IS TO BE CONTROLLED AS FOLLOWS:

- EXTERIOR WALKWAY LIGHTING TO BE CONTROLLED BY A PHOTOCELL VIA A LIGHTING CONTACTOR.
- THE ENCLOSED HALLWAY LIGHTING (BETWEEN THE EXTERIOR WALKWAYS) TO BE ON 24/7.

KEYNOTE LEGEND

KEY	KEYNOTE TEXT
1	LOCATE LIGHT SWITCH ADJACENT TO SHAFT ACCESS HATCH (FIELD LOCATE). SWITCH IS TO OPERATE WITH 3-WAY IN PIT. ALL LIGHTS IN SHAFT ARE TO TURN ON/OFF TOGETHER.
2	LIGHT FIXTURES AT THE TOP OF THE SHAFT ARE TO BE LOCATED SO AS TO BE MOUNTED MOUNTED ON THE WALL ABOVE THE TOP MOST POINT OF THE ELEVATOR CAR. FIELD COORDINATE WITH ELEVATOR INSTALLER AND ELEVATOR PLANS.
3	CONNECT TO LIGHTS AT BOTTOM OF SHAFT.
4	RUN CIRCUIT THRU LIGHTING CONTACTOR. CONTACTOR IS TO BE CONTROLLED BY PHOTOCELL.



1 Level 3 Lighting Plan - Building B
1/8" = 1'-0"

N
W
E
S

Revisions		
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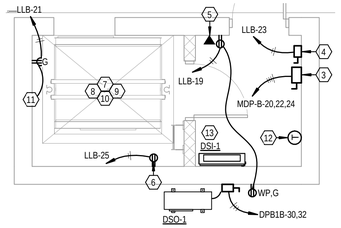
STEVEN BOYD SABLATURA — REGISTERED — AGRICULTURE — ARCHITECTURE — COMMERCE — No. 111301 — STATE OF TENNESSEE — 03/25/22

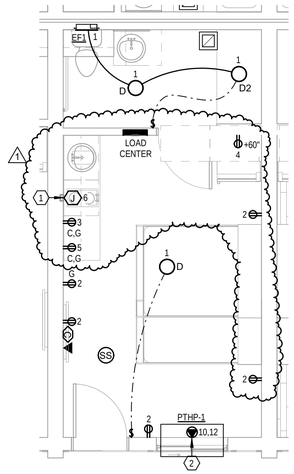
DRAWN:	JLH
CHECKED:	GWE
JOB No.	21205
DATE:	09-03-21

E-1.6

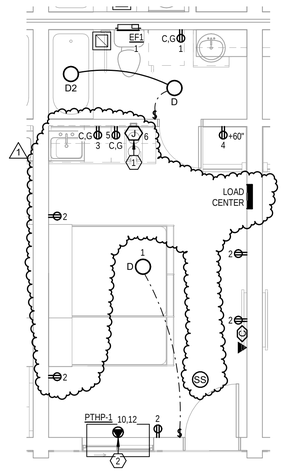
LEVEL 3 LIGHTING PLAN - BLDG B



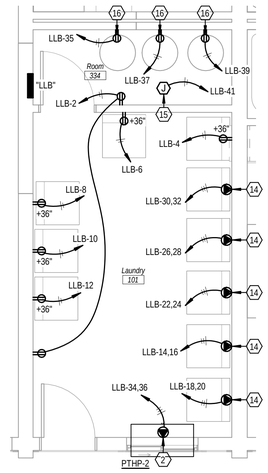
2 ENLARGED POWER PLAN - ELEVATOR PIT & MACHINE ROOM - Bldg B
1/4" = 1'-0"



3 Typical Type 'A' Unit Electrical Plan
1/4" = 1'-0"



4 Typical Type 'B' Unit Electrical Plan
1/4" = 1'-0"

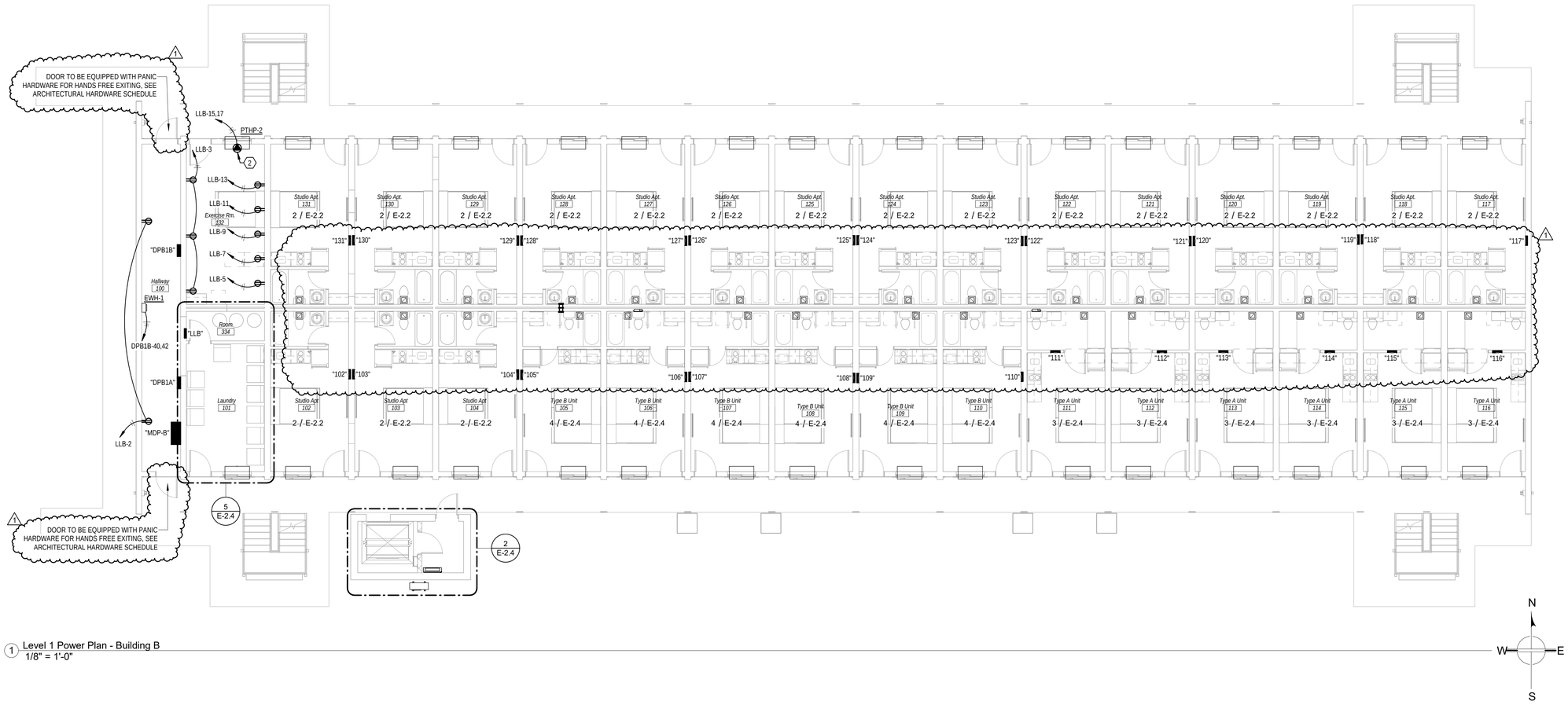


5 ENLARGED POWER PLAN - LAUNDRY
1/4" = 1'-0"

1 FOR STUDIO UNITS THAT ARE LABELED AS ACCESSIBLE (SEE ARCH PLANS), ALL OPERABLE PARTS INCLUDING, BUT NOT LIMITED TO THERMOSTATS, PANELBOARDS, SWITCHES AND RECEPTACLES TO BE MOUNTED WITH ACCESSIBLE REACH RANGES. ALSO PROVIDE CONTROL SWITCHES FOR THE COOKTOPN AND RANGE HOOD (IF APPLICABLE) IN THE FACE OF THE CASEWORK.

KEYNOTE LEGEND

KEY	KEYNOTE TEXT
1	PROVIDE 120V CONNECTION BELOW COUNTER FOR USE WITH COOKTOP. RUN #10 CU. WITH #10 CU. GROUND IN 3/4"C. TO PANEL. WIRE AS PER MANUFACTURER SPECS.. FIELD VERIFY LOCATION.
2	PROVIDE 120/208V, 1-PHASE ELECTRICAL CONNECTION TO HVAC UNIT. UNIT BY MECHANICAL. WIRING BY ELECTRICAL CONTRACTOR. REFER TO HVAC WIRING TABLE ON SHEET E-4.02 FOR ELECTRICAL INFORMATION..
3	PROVIDE 100A/3P DISCONNECT SWITCH WITH 100A DUAL ELEMENT, TIME DELAY, LOW PEAK BUSSMAN #LPN-RK1 FUSE FOR USE AT ELEVATOR MOTOR. ROUTE 4#3 CU. IN 1-1/2"C.. PROVIDE FULL SIZE NEUTRALS AND GROUNDS. DISCONNECT TO BE 4 POLE. PROVIDE N.O. AUX CONTACT FOR USE WITH LOWERING DEVICE. BRANCH WIRE TO ELEVATOR CONTROLLER FROM DISCONNECT.
4	FUSING AND SAFETY SWITCH FOR ELEVATOR CAR LIGHTING AND HVAC. PROVIDE 30A/1P SAFETY SWITCHES FUSED AT 15A. WIRE WITH #10 WIRE IN 3/4"C. AND CIRCUIT AS SHOWN. PROVIDE DRY CONTACTS AS REQUIRED. BREAKER IN PANEL TO BE GFCI TYPE. WIRE TO APPROPRIATE PART OF CONTROLLER.
5	PROVIDE 3/4"C AND BOX FOR USE WITH OWNER PROVIDED TELEPHONE LINE. ROUTE CONDUIT TO ABOVE NEAREST LAY-IN CEILING SPACE AND PROVIDE PULL STRING.
6	PROVIDE WEATHERPROOF NON-GFCI PROTECTED RECEPTACLE FOR ELEVATOR SUMP PUMP. MOUNT RECEPTACLE IN ELEVATOR PIT. COORDINATE WITH ELEVATOR EQUIPMENT SUPPLIER FOR EXACT MOUNTING AND ELECTRICAL ROUGH-IN.
7	COORDINATE LOCATIONS OF ALL EQUIPMENT IN ELEVATOR PIT WITH ELEVATOR SHOP DRAWINGS PRIOR TO ROUGH-IN.
8	ELECTRICAL CONTRACTOR SHALL REFERENCE ELEVATOR SPECIFICATIONS AND COORDINATE ALL REQUIREMENTS WITH ELEVATOR MANUFACTURER FOR ALL ELECTRICAL REQUIREMENTS PRIOR TO ROUGH-IN.
9	CONNECT EMERGENCY SHUT-DOWN OF ELEVATOR AS REQUIRED. SEQUENCE EQUIPMENT TO SHUT-DOWN THE ELEVATOR BY SMOKE DETECTORS WHEN REQUIRED.
10	ALL FITTINGS IN ELEVATOR PIT ARE TO BE COMPRESSION TYPE AND BE NEMA 4 RATED.
11	RUN WIRING TO OUTLET AT TOP OF SHAFT.
12	HVAC UNIT THERMOSTAT. REFER TO DETAIL ON SHEET E-0.1. FIELD COORDINATE EXACT LOCATION WITH THE MECHANICAL CONTRACTOR.
13	UNIT IS POWERED FROM ITS OUTDOOR UNIT. REFER TO HVAC UNIT WIRING TABLE NOTE #5 ON SHEET E-0.1. WIRE SYSTEM AS PER MANUFACTURER SPECS.. SEE DETAIL ON SHEET E-0.1.
14	PROVIDE 120/208V, 1-PHASE ELECTRICAL CONNECTION TO DRYER. RUN #8 CU. WITH #10 CU. GROUND IN 1"C. TO PANEL. PROVIDE RECEPTACLE TO MATCH NEMA CONFIGURATION OF CORD & PLUG SUPPLIED WITH UNIT.
15	PROVIDE 120V CONNECTION AT HOT WATER RECIRCULATION PUMP. FIELD COORDINATE LOCATION WITH THE PLUMBING CONTRACTOR. PROVIDE 20A SWITCH AT UNIT.
16	OUTLET FOR USE WITH GAS TANKLESS WATER HEATER. FIELD COORDINATE LOCATION WITH THE PLUMBING CONTRACTOR.



1 Level 1 Power Plan - Building B
1/8" = 1'-0"

Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

at

1500 NORTH CHERRY ST.
KNOXVILLE, TN 37917

for

JDH DEVELOPERS, INC.
ATTN: JOHN PATEL (PRES)

400 GALLERIA PARKWAY
SUITE 1140
ATLANTA, GA 30339

March Adams & Associates
Consulting Engineers

310 Dodds Ave.
P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

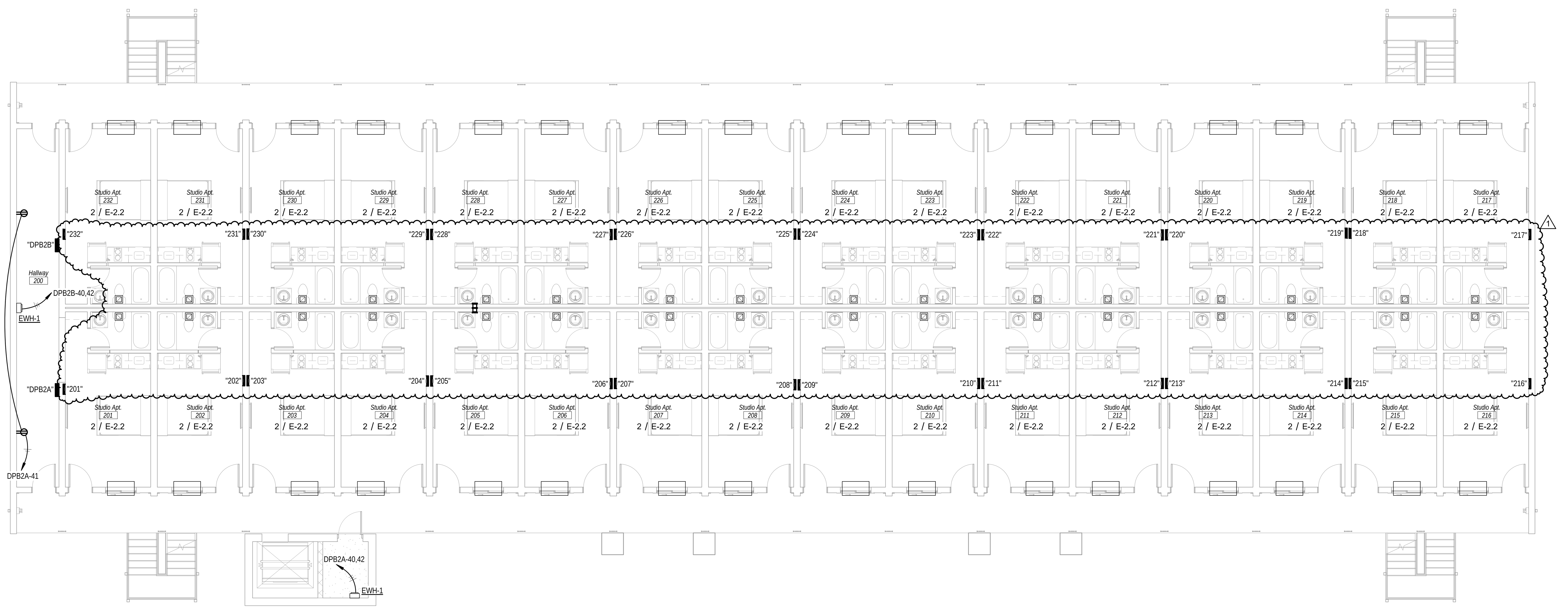
STEVEN BOYD GABBARD
REGISTERED PROFESSIONAL ENGINEER
ARCHITECTURE
STATE OF TENNESSEE
No. 111701
09/26/22

DRAWN:	JLH
CHECKED:	GWE
JOB No.	21205
DATE:	09-03-21

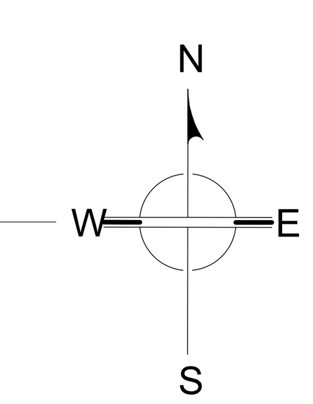
E-2.4

LEVEL 1 POWER PLAN - BLDG B

KEYNOTE LEGEND	
KEY	KEYNOTE TEXT



1 Level 2 Power Plan - Building B
1/8" = 1'-0"



Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

KNOXVILLE INN RENOVATIONS

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KNOXVILLE, TN 37917

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P.O. Box 3689
Chattanooga, Tennessee 37404
PH: (423)698-6675

03/25/22

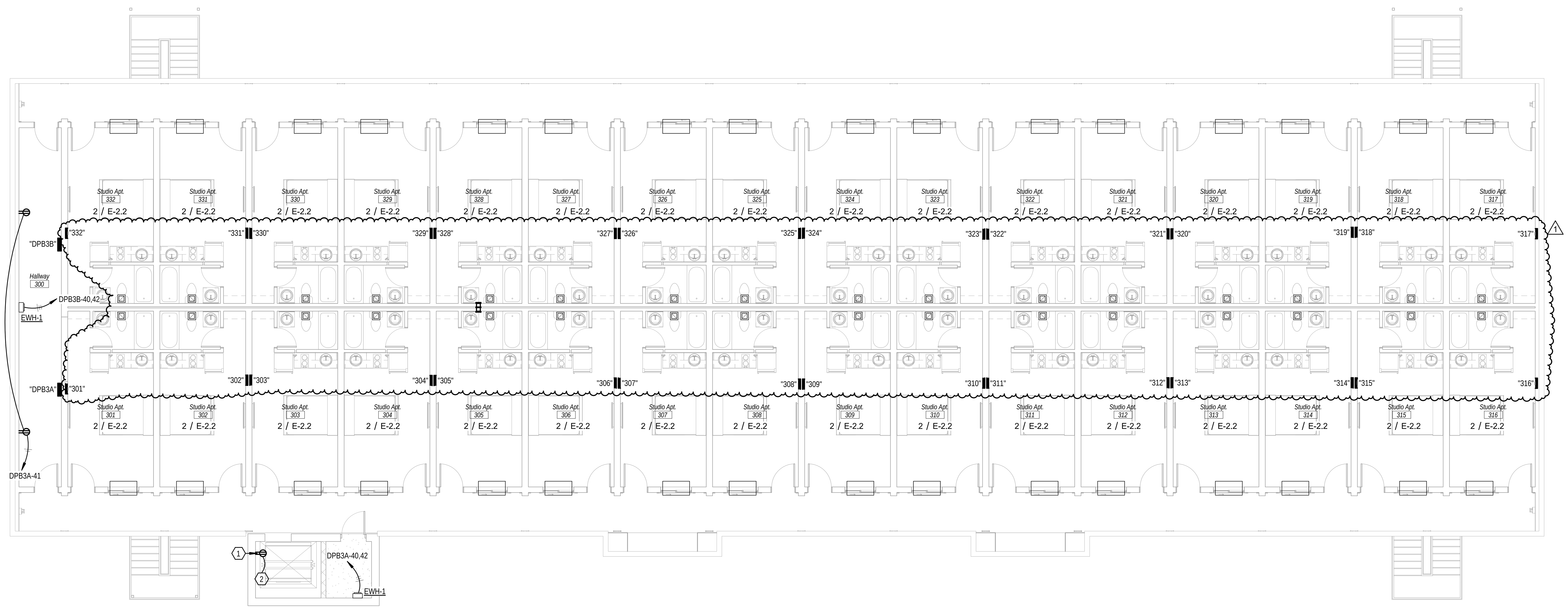
DRAWN:	JLH
CHECKED:	GWE
JOB No.	21205
DATE:	09-03-21

E-2.5

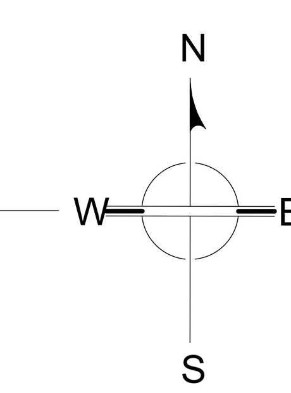
LEVEL 2 POWER PLAN - BLDG B

KEYNOTE LEGEND

KEY	KEYNOTE TEXT
1	OUTLET AT TOP OF SHAFT NEXT TO SHAFT ACCESS HATCH (FIELD LOCATE).
2	CONNECT TO GFCI OUTLET IN BOTTOM OF SHAFT.



1 Level 3 Power Plan - Building B
1/8" = 1'-0"



Revisions

#	REVISION	DATE
1	ADD #1, City Review Comments	03-25-22

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PH: (423)698-6675

DRAWN:	JLH
CHECKED:	GWE
JOB No.	21205
DATE:	09-03-21

E-2.6

LEVEL 3 POWER PLAN - BLDG B