HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

PRINTS ISSUED
04/17/2024 - CITY SUBMISSION

REVISIONS:
1 05/17/2024 CITY RESPONSE
2 06/14/2024 CITY & BRAND RESPONSE

PROJECT CERTIFICATION

I, **(David E. Hendrikse)**, hereby specify pursuant to the governing requirements of the state, that the documents intended to be authenticated by my seal are limited to:

G-001	G-201	G-301	A-105	A-202	A-401	A-501	A-702
G-002	G-202	G-302	A-106	A-203	A-402	A-502	A-703
G-003	G-203	G-303	A-107	A-300	A-403	A-503	A-704
G-004	G-204	AS-100	A-120	A-301	A-404	A-504	A-705
G-005	G-205	AS-101	A-121	A-302	A-405	A-600	A-706
G-006	G-206	AS-102	A-122	A-303	A-406	A-601	A-707
G-007	G-207	AS-103	A-123	A-304	A-407	A-602	A-708
G-100	G-208	A-101	A-124	A-305	A-408	A-603	A-710
G-101	G-209	A-102	A-125	A-306	A-410	A-604	A-711
G-102	G-210	A-103	A-200	A-307	A-415	A-700	A-715
G-103	G-300	A-104	A-201	A-400	A-500	A-701	

and I hereby disclaim any responsibility for all other plans, specifications, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural or engineering project or survey.

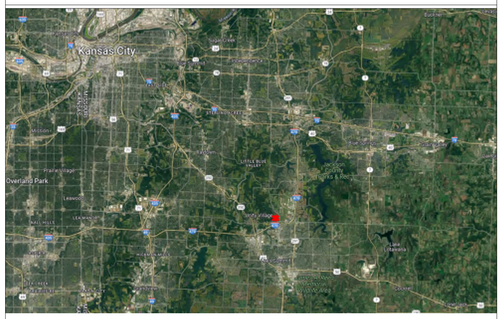
SEAL

STATE OF MISSOURI
DAVID EUGENE HENDRIKSE
NUMBER A-7305
REGISTERED ARCHITECT
06/14/2024

DAVID E. HENDRIKSE, AIA

REGIONAL MAP

VICINITY MAP



HOME2 SUITES BY HILTON
251 NE ALURA WAY
LEE'S SUMMIT, MISSOURI 64064

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GENERAL

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CIVIL UNDER SEPARATE REVIEW, REFERENCE FDP

STRUCTURAL

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PROJECT DATA

PROJECT DESIGN INFORMATION

NEW CONSTRUCTION:

ZONING: PMIX - PLANNED MIXED USE DISTRICT

CODE:
2018 INTERNATIONAL BUILDING CODE
2018 INTERNATIONAL PLUMBING CODE
2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL FUEL GAS CODE
2018 INTERNATIONAL FIRE CODE
2017 NATIONAL ELECTRIC CODE
2009 ACCESSIBILITY CODE ICC/ANSI 117-1
LEE'S SUMMIT AMENDMENTS TO ENERGY CODE
NFPA 72 & NFPA 13 / 13R

OCCUPANCY GROUP: R-1, HOTEL TRANSIENT
A-2, UNCONCENTRATED
A-4, SWIMMING POOL
B, BACK OF HOUSE

TYPE OF CONSTRUCTION: TYPE VA

ENERGY CONSERVATION:

WALLS AS PART OF BLDG ENVELOPE	R-11
FLOORS AS PART OF BLDG ENVELOPE	R-19
ROOFS AS PART OF BLDG ENVELOPE	R-19
CEILINGS AS PART OF BLDG ENVELOPE	R-30

BUILDING SUMMARY:
NUMBER: 1 TOTAL BUILDING
HEIGHT: 4 STORIES, 49'-0"

SQUARE FOOTAGES:	GROSS	NET
FIRST FLOOR	16,402 S.F.	16,079 S.F.
SECOND FLOOR	14,828 S.F.	14,529 S.F.
THIRD FLOOR	14,828 S.F.	14,529 S.F.
FOURTH FLOOR	14,828 S.F.	14,529 S.F.

UNIT SUMMARY: **107 TOTAL UNITS**

ACCESSIBLE UNITS
(4) UNITS - ACC. KING ONE BEDROOM
(2) UNITS - ACC KING STUDIO
(1) UNITS - ACC. QUEEN QUEEN STUDIO

HI/VI UNITS 2
(4) UNITS - KING STUDIO
(2) UNITS - KING STUDIO CONNECTING
(1) UNITS - KING ONE BEDROOM
(3) UNITS - QUEEN QUEEN STUDIO
(2) UNITS - QUEEN QUEEN CONNECTING

TYPE 'B' UNITS
(71) UNITS - KING STUDIO
(4) UNITS - KING STUDIO CONNECTING
(3) UNITS - KING ONE BEDROOM
(9) UNITS - QUEEN QUEEN STUDIO
(1) UNITS - QUEEN QUEEN CONNECTING

TOTAL UNITS **(107) UNITS**

SQUARE FOOTAGE:	GROSS	NET
KING STUDIO	380 S.F.	350 S.F.
KING STUDIO CON.	380 S.F.	350 S.F.
ACC. KING STUDIO	600 S.F.	555 S.F.
KING ONE BED	576 S.F.	534 S.F.
ACC. KING ONE BED	628 S.F.	581 S.F.
QUEEN QUEEN STUDIO	474 S.F.	439 S.F.
QUEEN QUEEN CON.	456 S.F.	422 S.F.
ACC. QUEEN QUEEN	600 S.F.	562 S.F.

SITE SUMMARY:

REFERENCE CIVIL FOR SITE INFORMATION

NOTE: SQUARE FOOTAGE

-GROSS - COMMON SPACE CALCULATION: OUTSIDE PERIMETER OF STUD (ENTIRE BUILDING) LESS THE TOTAL OF THE GROSS UNIT SQUARE FOOTAGE PER FLOOR.
-GROSS - UNIT CALCULATION: CENTERLINE OF PARTY WALL TO OUTSIDE OF EXTERIOR STUD WALL AND/OR OUTSIDE OF CORRIDOR STUD WALL.
-NET - PAINT-TO-PAINT AT PERIMETER,TAKEN FROM INSIDE OF DEMISING, EXTERIOR, AND CORRIDOR WALLS.

PLUMBING

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■	04/17/24	PW104	WATER & GAS PLAN - FOURTH FLOOR	2	06/14/2024
■	04/17/24	P501	PLUMBING DETAILS		
■	04/17/24	P601	PLUMBING SCHEDULES	2	06/14/2024

SOLID FILL INDICATES INCLUSION IN ISSUE
SHEET ISSUE DATE

■ | 10 / 10/ 2024 | A-000 SHEET NAME | - | 10 / 10/ 2024

SHEET NUMBER AND NAME
CURRENT REVISION NUMBER & REVISION DATE ON SHEET

SHEET INDEX LEGEND

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HOME2 SUITES BY HILTON
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SHEET TITLE
TITLE SHEET

PROJECT NUMBER: 22023

SHEET NUMBER:

G-001

ABBREVIATIONS

A

ABV	ABOVE
ACC	ACCESSIBLE
ACT	ACOUSTICAL CEILING TILE
AD	AREA DRAIN
ADA	AMERICANS WITH DISABILITIES ACT
ADAAG	ADA ACCESSIBILITY GUIDELINES
ADF	ACCESSIBLE DRINKING FOUNTAIN
ADH	ADHESIVE
ADJ	ADJUSTABLE/ADJACENT
AEWC	ACCESSIBLE ELECTRIC WATER COOLER
AFF	ABOVE FINISH FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AL	ASSISTED LIVING
ALAV	ACCESSIBLE LAVATORY
ALT	ALTERNATE
ALUM	ALUMINUM
AMI	ACCESSIBLE MIRROR
ANN	FIRE ANNUNCIATOR PANEL
ANO	ANNODIZED
APPD	APPROVED
APPROX	APPROXIMATE(LY)
ASD	ACCESSIBLE SOAP DISPENSER
ASH	ACCESSIBLE SHOWER HEAD
ATTEN	ATTENUATION
ATTN	ATTENTION
AU	ACCESSIBLE URINAL

B

B.O.	BOTTOM OF
BD	BOARD
BLDG	BUILDING
BLK	BLOCK / BLACK
BLKG	BLOCKING
BM	BENCH MARK
BO	BY OTHERS
BOD	BOTTOM OF DECK(ING)
BOH	BACK OF HOUSE
BOT	BOTTOM (OF)
BRG	BEARING
BRKT	BRACKET
BRZ	BRONZE
BSMT	BASEMENT
BTWN / BTW	BETWEEN
BUR	BUILT UP ROOFING
BUS	BUSINESS

C

C TO C	CENTER TO CENTER
CAB	CABINET
CB	CERAMIC BASE/CORNER BEAD/CHALKBOARD
CEM / CEMT	CEMENT / CEMENTITIOUS
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLO	CLOSET
CLR	CLEAR
CLRM	CLASSROOM
CMP	CORRUGATE METAL PIPE
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTERTOP
CO	CLEANOUT
COL	COLUMN
COMB	COMBINATION
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE / COORDINATOR
CORR	CORRIDOR
CPT	CARPET
CSK	COUNTERSINK / COUNTER SUNK
CT	CERAMIC TILE
CTG	COATING
CTR	CENTER
CY	CUBIC YARD(S)

D

DBL	DOUBLE
DEMO	DEMOLITION / DEMOLISH
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIMS	DIMENSIONS
DN	DOWN
DP	DEEP
DR	DOOR
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING

E

E	EAST
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
ENLG	ENLARGED
EPDM	ETHYLENE PROPYLENE DIENE TERPOLYMER
EQ	EQUAL
ES	EACH SIDE
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR

F

FA	FIRE ALARM
FACP	FIRE ACCESS CONTROL PANEL
FAWCM	FULLY ADHERED WATER CONTROL MEMBRANE
FBG	FIBERGLASS
FD	FLOOR DRAIN / FIRE DEPARTMENT
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FGL	FIBERGLASS
FH	FIRE HOSE
FHA	FAIR HOUSING ACT
FHC	FIRE HOSE CABINET
FIN	FINISH
FIXT	FIXTURE
FLASH	FLASHING
FLEX	FLEXIBLE
FLR	FLOOR
FND	FOUNDATION
FO	FACE OF
FRP	FIBER-REINFORCED PLASTIC
FT	FOOT
FTG	FOOTING

G

GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GEN	GENERAL
GFRC	GLASS FIBER REINFORCED CONCRETE
GL	GLASS
GLZ	GLAZED TILE
GPM	GALLONS/MINUTE
GR	GRADE
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
GYP BD	GYPSUM BOARD

H

HB	HOSE BIBB
HC	HOLLOW CORE
HCWD	HOLLOW CORE WOOD
HD	HEAVY DUTY OR HAND DRYER
HDBD	HARD BOARD
HDNR	HARDENER
HDW	HARDWARE
HDWD	HARDWOOD
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HOUR
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HYD	HYDRANT

I

IBC	INTERNATIONAL BUILDING CODE
ID	INTERIOR DESIGNER
ID	INSIDE DIAMETER
IDF	INDIVIDUAL DISTRIBUTION FRAME
IL	INDEPENDENT LIVING
IN	INCHES
INDIV	INDIVIDUAL
INSUL	INSULATION / INSULATED
INT	INTERIOR
INV	INVERT

J

JAN	JANITOR
JST	JOIST
JT	JOINT

K

KD	KNOCKED DOWN
KIT	KITCHEN
KN	KNOX BOX

L

LA	LANDSCAPE / LANDSCAPE ARCHITECT
LAM	LAMINATE
LAV	LAVATORY
LF	LINEAR FOOT/FEET
LG	LONG
LGTH	LENGTH
LKR	LOCKER
LSC	LIFE SAFETY CODE
LT	LIGHT

M

MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MARKER BOARD / MAIL BOX
MC	MEMORY CARE
MDF	MAIN DISTRIBUTION FRAME
MECH	MECHANICAL
MFR	MANUFACTURE(ER)
MH	MANHOLE
MI	MIRROR
MIN	MINIMUM
MO	MASONRY OPENING
MTD	MOUNTED
MTG HT	MOUNTING HEIGHT
MTL	METAL

N

N	NORTH
N/A	NOT APPLICABLE
NIC	NOT IN COUNT / NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE

O

OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFD	OVERFLOW ROOF DRAIN
OFF	OFFICE
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OSB	ORIENTED STRAND BOARD

P

PA	PUBLIC ADDRESS
PAR	PARALLEL
PCP	PORTLAND CEMENT PLASTER
PERP	PERPENDICULAR
PH	PRE-HUNG
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLBG	PLUMBING
PLBG	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
PNLG	PANELING
PR	PAIR
PRE-FIN	PRE-FINISHED
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PT	PAINT
PTD	PAINTED
PTN	PARTITION
PTR	PAPER TOWEL RECEPTACLE

R

R	RADIUS
RA	RETURN AIR
RC	RESILIENT CHANNEL
RCP	REFLECTED CEILING PLAN / REINFORCED CONCRETE PIPE(ING)
RD	ROOF DRAIN
RE / REF	REFER TO
RECPT	RECEPTACLE
RECS	RECOMMENDATION(S)
REF	REFRIGERATOR / REFER TO
REINF	REINFORCING
REQD	REQUIRED
REV	REVISION
RFG	ROOFING
RO	ROUGH OPENING
RR	RESTROOM
RTU	ROOF TOP UNIT

S

S	SOUTH
SAF	SELF ADHERED FLASHING
SAFP	SPRAYED APPLIED FIRE-PROOFING
SC	SOLID CORE
SCHED	SCHEDULE
SCR	SHOWER CURTAIN ROD
SCWD	SOLID CORE WOOD
SD	SOAP DISPENSER
SECT	SECTION
SF	SQUARE FEET
SH	SINGLE HUNG
SHR	SHOWER
SHT	SHEET
SIM	SIMILAR
SND	SANITARY NAPKIN DISPENSER
SOG	SLAB ON GRADE
SP CTG	SPECIAL COATING
SPEC	SPECIFICATION
SPKR	SPEAKER
SQ	SQUARE
SQIN	SQUARE INCHES
SST	STAINLESS STEEL
STC	SOUND TRANSMISSION COEFFICIENT
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SUBFLR	SUBFLOOR
SUSP	SUSPEND(ED)
SY	SQUARE YARD
SYM	SYMMETRICAL

T

T	TREAD
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
T.O.	TOP OF
TB	TOWEL BAR
TBD	TO BE DETERMINED
TEL / TELE	TELEPHONE
TER / TRZ	TERRAZZO (TERRACE)
TERM	TERMINATE / TERMINAL
TOC	TOP OF CURB / TOP OF CONC
TOM	TOP OF MASONRY
TOW	TOP OF WALL
TP / TPD	TOILET PAPER DISPENSER
TPO	THERMOPLASTIC POLYOLEFIN
TRANS	TRANSFORMER / TRANSPARENT / TRANSOM
TS	TUBE STEEL
TYP	TYPICAL

U

UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
UR	URINAL
US	UTILITY SHELF

V

VCT	VINYL COMPOSITE TILE
VENT	VENTILATE / VENTILATION
VER	VERIFY
VIF	VERIFY IN FIELD
VP	VISION PANEL
VTR	VENT THRU ROOF

W

W	WEST
W/	WITH
W/IN	WITHIN
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WF	WIDE FLANGE / WATER FOUNTAIN
WH	WALL HUNG / HYDRANT / WATER HEATER / WEEP HOLE
WLD	WELD(ED)
WRB	WEATHER-RESISTANT BARRIER
WT	T SECTION
WWF	WELDED WIRE FABRIC

X

X	BY (EX: 2X4)

Y

YD	YARD / YARD DRAIN

MATERIAL LEGEND AND SYMBOLS

- MASONRY BLOCK - PLAN 1/2" = 1'-0" AND BELOW
- BRICK - SECTION
- CONCRETE ABOVE 1-1/2" = 1'-0"
- STUD WALL
- GYPSUM BOARD
- PLYWOOD
- RIGID INSULATION
- BATT INSULATION
- STANDING SEAM METAL ROOF
- EARTH
- CRUSHED ROCK
- SAND
- CONTINUOUS LUMBER
- NON-CONTINUOUS LUMBER (SHIM)
- FINISH LUMBER
- STEEL OR METAL

- 9999A.2 Room Name — ROOM NUMBER
- ACCESSIBLE UNIT OR TYPE-A UNIT
- HEARING IMPAIRED UNIT
- VISUALLY IMPAIRED UNIT
- 101 — DOOR NUMBER
- A1 — WINDOW TYPE
- P7 — WALL TYPE
- 01.00 — ELEVATION KEYNOTE
- 01.00 — PLAN KEYNOTE
- ELEVATION NUMBER / SHEET NUMBER (1, A101, SIM) — SIMILAR TO WALL SECTION INDICATED; WALL SECTION CUT LINE
- ELEVATION NUMBER / SHEET NUMBER (1, A101, SIM) — SIMILAR TO BUILDING SECTION INDICATED; BUILDING SECTION CUT LINE
- ELEVATION NUMBER / SHEET NUMBER (A-101, 3) — EXTERIOR ELEVATION
- ELEVATION NUMBER / SHEET NUMBER (A-101, 3) — INTERIOR ELEVATION
- ELEVATION NUMBER / SHEET NUMBER (1, A101, SIM) — SIMILAR TO BUILDING SECTION INDICATED; ENLARGED PLAN OR DETAIL CALLOUT
- Name Elevation — ELEVATION MARK
- ARCHITECT TO VERIFY

GENERAL NOTES

STANDARDS AND REGULATIONS

1. CONTRACTOR SHALL PERFORM ALL WORK IN CONFORMANCE WITH APPLICABLE BUILDING CODES, REGULATIONS, ORDINANCES, UTILITY PROVIDER REQUIREMENTS, AND SIMILAR STANDARDS.
2. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND SIMILAR RELEASES REQUIRED FOR CONSTRUCTION AND OCCUPANCY. CONTRACTOR SHALL FURNISH ALL COPIES OF SUCH ITEMS TO OWNER AND ARCHITECT WITHIN 10 DAYS OF RECEIPT. IF PERMITS ARE ISSUED SUBJECT TO CERTAIN CONDITIONS OR REVISIONS TO THE WORK OR PERMITS ARE DELAYED FOR ANY REASON, CONTRACTOR SHALL NOTIFY CONTRACTING OFFICER IMMEDIATELY.
3. CONTRACTOR SHALL OBTAIN ALL REQUIRED INSPECTIONS OF THE WORK. CONTRACTOR SHALL REGULARLY UPDATE OWNER AND ARCHITECT REGARDING THE STATUS OF THE INSPECTIONS.
4. CONTRACTOR SHALL COORDINATE WORK WITH APPLICABLE UTILITY PROVIDERS.
5. CONTRACTOR SHALL BE FAMILIAR WITH AND WORK SHALL BE IN COMPLIANCE WITH REFERENCED FIRE-RATED ASSEMBLY TESTS AND STANDARDS.

ADMINISTRATION OF THE WORK

1. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS AND SEQUENCES OF CONSTRUCTION.
2. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SAFETY OF ALL CONSTRUCTION PERSONNEL AND AUTHORIZED VISITORS.
3. CONTRACTOR SHALL BECOME FULLY ACQUAINTED WITH THE CONDITIONS RELATED TO THE WORK. ANY KNOWN DISCREPANCIES BETWEEN THE DOCUMENTS AND ACTUAL CONDITIONS SHALL BE REPORTED TO THE OWNER FOR RESOLUTION PRIOR TO PROCEEDING WITH WORK RELATED TO THE DISCREPANCY.
4. CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL CONSTRUCTION AND DEMOLITION DEBRIS. CONTRACTOR SHALL OBTAIN APPROVAL OF OWNER (AND GOVERNING AUTHORITIES, IF APPLICABLE) FOR DETAILS RELATED TO REMOVAL OF TRASH, INCLUDING SUCH ISSUES AS PATH OF TRAVEL.
5. CONTRACTOR SHALL BECOME FAMILIAR WITH AND COMPLY WITH GOVERNMENT'S PROCEDURES FOR MAINTAINING A SECURE SITE AND BUILDING.
6. EACH INSTALLER SHALL EXAMINE SUBSTRATE CONDITION AND/OR SITE CONDITIONS WHICH AFFECT THE QUALITY OF EACH PRODUCT TO BE INSTALLED. IF ANY CONDITIONS EXIST WHICH WILL HAVE A DETRIMENTAL EFFECT ON THE QUALITY OF THE INSTALLATION, THE INSTALLER SHALL IMMEDIATELY NOTIFY THE CONTRACTOR. INSTALLATION SHALL NOT PROCEED UNTIL THE UNSATISFACTORY CONDITIONS ARE CORRECTED. PROCEEDING WITH THE INSTALLATION SHALL SIGNIFY ACCEPTANCE OF THE CONDITIONS.
7. CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS ON SITE AT ALL TIMES.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING COORDINATION EFFORTS OF ALL SUBCONTRACTORS.
9. CONTRACTOR SHALL NOT CLOSE UP CEILING UNTIL ARCHITECT HAS AN OPPORTUNITY TO INSPECT ALL WORK WHICH WILL BE CONCEALED BY CEILING. CONTRACTOR SHALL NOTIFY ARCHITECT AT LEAST TWENTY-FOUR HOURS PRIOR TO CLOSE-UP.
10. CONTRACTOR SHALL LAY OUT WORK AS SOON AS POSSIBLE. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK IN QUESTION.

USE OF CONSTRUCTION DOCUMENTS

1. CONTRACTOR SHALL NOT SCALE DRAWINGS. ONLY WRITTEN DIMENSIONS OR KEYED NOTES SHALL BE USED. CONTACT ARCHITECT IF CLARIFICATION OR ADDITIONAL INFORMATION IS REQUIRED.
2. DRAWINGS SHALL NOT BE REPRODUCED FOR SUBMITTALS. DRAWINGS OR PORTIONS OF DRAWINGS USED FOR SUBMITTALS WILL BE REJECTED AND RETURNED TO CONTRACTOR.
3. DIMENSIONS ARE AS FOLLOWS UNLESS NOTED OTHERWISE:
   A. FACE OF STUD
   B. TO CENTERLINE OF COLUMNS, PARTY WALL, WINDOWS AND DOORS
   C. TO TOP OF STRUCTURAL DECK
   D. TO BOTTOM OF FINISHED CEILING

DEFINITIONS

1. "ALIGN" AS USED IN THESE DOCUMENTS SHALL MEAN TO ACCURATELY LOCATE AND FINISH FACES IN THE SAME PLANE AND/OR TO INSTALL NEW CONSTRUCTION ADJACENT TO EXISTING CONSTRUCTION WITHOUT ANY VISIBLE JOINTS OR SURFACE IRREGULARITIES.
2. "CLEAR" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION IS NOT ADJUSTABLE WITHOUT THE APPROVAL OF THE ARCHITECT, CLEAR DIMENSIONS ARE TYPICALLY TO FINISH FACE.
3. "MAXIMUM" OR "MAX" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION IS SLIGHTLY ADJUSTABLE BUT MAY NOT VARY TO A DIMENSION OR QUANTITY GREATER THAN THAT SHOWN WITHOUT APPROVAL OF THE ARCHITECT.
4. "MINIMUM" OR "MIN." AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION IS SLIGHTLY ADJUSTABLE BUT MAY NOT VARY TO A DIMENSION OR QUANTITY LESS THAN THAT SHOWN WITHOUT APPROVAL OF THE ARCHITECT.
5. "TYPICAL" OR "TYP" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION OR DIMENSION IS THE SAME OR REPRESENTATIVE FOR SIMILAR CONDITIONS THROUGHOUT.
6. "+/-" AS USED IN THESE DOCUMENTS SHALL MEAN THE DIMENSION OR QUANTITY IS SLIGHTLY ADJUSTABLE TO ACCOMMODATE ACTUAL CONDITIONS.

GENERAL CONSTRUCTION ISSUES

1. HATCHED AREAS INDICATE AREA TO BE FURRED DOWN ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
2. ALL PLUMBING SUPPLY LINES IN EXTERIOR WALLS TO RECEIVE FULL INSULATION.
3. DO NOT ALLOW EXTERIOR SHEATHING TO BE IN CONTACT WITH CONCRETE SURFACE.
4. HOLD ALL WOOD TRIM A MINIMUM OF 1/4-INCH ABOVE CONTACT WITH HORIZONTAL CONCRETE SURFACES.

PASSIVE SUB SLAB DEPRESSURIZATION RADON CONTROL SYSTEM

1. PROVIDE UNDERSLAB RADON MITIGATION SYSTEM WITH REQUIRED VENTING.
2. DESIGN OF SUB SLAB DEPRESSURIZATION RADON CONTROL SYSTEM WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. PROVIDE ELECTRICAL JUNCTION BOX IN ATTIC FOR POSSIBLE FUTURE INSTALLATION OF WARNING DEVICE FOR EACH VERTICAL STACK.
4. PROVIDE 15 AMP, 115 VOLT ELECTRIC CIRCUIT AND JUNCTION BOX FOR FUTURE INSTALLATION OF VENT FAN.
5. ALL CONCRETE SLABS THAT COME IN CONTACT WITH THE GROUND SHALL BE LAID OVER A GAS PERMEABLE MATERIAL MADE UP OF EITHER A MINIMUM 4" THICK UNIFORM OF CLEAN AGGREGATE OR A MINIMUM 4" THICK UNIFORM LAYER OF SAND, OVERLAIN BY A LAYER OR STRIPS OF MANUFACTURED MATTING DESIGNED TO ALLOW THE LATERAL FLOW OF SOIL GASES.
6. ALL CONCRETE FLOOR SLABS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH LOCAL BUILDING CODES.
7. ALL OPENINGS, GAPS, AND JOISTS IN FLOOR AND WALL ASSEMBLIES IN CONTACT WITH SOIL OR GAPS AROUND PIPES, TOILETS, BATHTUBS OR DRAINS PENETRATING THESE ASSEMBLIES SHALL BE FILLED OR CLOSED WITH MATERIALS THAT PROVIDE A PERMANENT AIR-TIGHT SEAL. SEAL LARGE OPENINGS WITH NON-SHRINK MORTAR, GROUTS OR EXPANDING FOAM MATERIALS AND SMALLER GAPS WITH ELASTOMERIC JOINTS SEALANT, AS DEFINED ASTM C920-A7.
8. VENT PIPES SHALL BE INSTALLED SO THAT ANY RAINWATER OR CONDENSATION DRAINS DOWNWARD INTO THE GROUND BENEATH THE SLAB OR SOIL - GAS - RETARDER MEMBRANE.
9. EXHAUST CLEARANCES MUST CONFORM TO THE CURRENT NATIONAL STANDARD PLUMBING CODE, FOR EXHAUST TERMINATION LIMITATION AND REQUIREMENTS.

PRINTS ISSUED
04/17/2024 - CITY SUBMISSION

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STATE OF MISSOURI — DAVID EUGENE HENDRIKSE — NUMBER A-7305 — REGISTERED ARCHITECT
04/17/2024

HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
GENERAL INFORMATION

PROJECT NUMBER: 22023

SHEET NUMBER:

G-002

KEYNOTE LEGEND (FULL PROJECT)

1	PTAC UNIT
01.00	DIVISION 01 - GENERAL REQUIREMENTS
4	MANUAL BLACK OUT ROLLER SHADE TO EXTEND 6" BEYOND WINDOW OPENING; SHEER ROLLER SHADE TO BE MOUNTED INSIDE WINDOW OPENING
5	SHOWER ENCLOSURE W/TEMPERED GLASS DOOR
7	PREMANUFACTURED SHOWER PAN
9	ALTERNATE LOCATION OF DOOR FOR CONNECTING ROOMS TO ACCESSIBLE ROOMS--REFER TO OVERALL PLANS FOR LOCATION OF ACCESSIBLE ROOMS
10	DEDICATED CIRCUIT FOR DISHWASHER
11	RANGE TOP STYLE MICROWAVE AFFIXED TO WALL
12	MIRROR
14	SWITCH CONTROLLING GARBAGE DISPOSAL GANGED WITH DUPLEX - REFER TO HADG FOR ACCESSIBLE ROOM REQUIREMENTS
15	DEDICATED CIRCUIT FOR GARBAGE DISPOSAL
16	FIRE HORN IN STANDARD ROOMS. FIRE HORN/STROBE IN COMMUNICATION FEATURES ROOMS
19	TOILET EXHAUST GRILLE
20	MAKE-UP AIR DIFFUSER
21	EXTENT OF SLEEPER SOFA
23	ROOM SIGNAGE
24	HARD WIRED THERMOSTAT FOR PTAC. MOUNTED 48" MAX TO TOP OF DEVICE. COMMUNICATION BETWEEN THERMOSTAT AND PTAC MAY BE WIRELESS.
25	EXTEND J-BOX, DEVICE & COVER PLATE FLUSH W/ MILLWORK BACK PANEL
28	DOORBELL ON/OF SWITCH (COMMUNICATION FEATURES ROOMS ONLY) SIGNAGE AS REQ'D.
30	EDGE OF PTAC ABOVE CARPET TILES
31	MIN. CEILING HEIGHT MUST BE MAINTAINED - REFER TO HOME 2 SUITES BY HILTON STANDARDS MANUAL
32	FRAMING SUBCONTRACTOR TO PROVIDE 3/4" F.R.T. PLYWOOD BLOCKING TO RECEIVE ITEM INDICATED - EXTEND FULL LENGTH OF OBJECT
35	SWITHES CONTROLLING MECHANICAL SHADES - REFER TO FFE MANUAL
36	OUTLET ABOVE FOR MICROWAVE - REFER TO ROOM ELEVATION MOUNT DEVICE HORIZONTALLY--FACE PLATE TO BE WHITE
39	CENTER ARTWORK OVER SOFA
40	COUNTERTOP MICROWAVE
41	GRAPHIC ART. REFER TO ACCESSORIES LEGEND & CONSTRUCTION PLAN
44	WAP IN 3-GANG BOX MOUNTED VERTICALLY UNDER DESK. MAINTAIN 6" BETWEEN ALL BOXES, TYP ALL GUESTROOMS. COORDINATE WAP LOCATION WITH CASEGOODS TO AVOID CONFLICTS. VISIT CONNECTEDROOM.HILTON.COM FOR CURRENT WIRELESS INTERNET REQ'S AND LIST OF APPROVED INTEGRATORS.
45	EACH CABLE MUST HOMERUN BETWEEN THE GUESTROOM AND THE IDF ON EACH FLOOR. VISIT CONNECTEDROOM.HILTON.COM FOR CURRENT REQUIREMENTS AND OPTIONS.
46	OPTION WIRED DATA CONNECTION FOR GUEST USE: A) ADD CAT6 RJ-45 CABLE JACK AND PATCH CORD THROUGH DESKTOP GROMMET - OR - B) PATCH CORD FROM WAP PORT THROUGH DESKTOP GROMMET.
47	TV CONNECTIONS FOR FREE-TO-GUEST CONTENT: A) NO SMART TV:COAX CABLE BEHIND TV. CAT6 RJ-45 JACK BEHIND TV, RUN IN SMURF TUBE IN WALL TO WAP UNDER DESK. PATCH CORD TO EDGE CONTROLLER FOR CONNECTED ROOM. MIN. 6" CLEARANCE FROM WALL BOXES - OR - B) SMART TV-INTERNET PROTOCOL TELEVISION (IPTV); COAX NOT REQ'D. CAT6 RJ-45 JACK BEHIND TV RUN IN SMURF TUBE IN WALL TO WAP UNDER DESK. PATCH CORD TO EDGE CONTROLLER FOR CONNECTED ROOM. CAT6 RJ-45 JACK BEHIND TV IN ONE-BEDROOM TV. MIN. 6" CLEARANCE FROM WALL BOXES. VISIT HILTONHDTV.COM FOR ADDITIONAL INFORMATION.
48	PROVIDE HINGE STOP AT DOOR
49	HARDWIRED BLACK OUT ROLLER SHADE WITH NO EXPOSED WIRES
50	PROVIDE OUTLET FOR UNDERCABINET LIGHTING BY OTHERS
A1	GYPSUM BOARD SOFFIT FASCIA- REFER TO CEILING PLANS
A4	EMPLOYEE LOCKERS: PROVIDE QUANTITY OF ACCESSIBLE LOCKERS AS REQUIRED BY ACCESSIBILITY REQUIREMENTS OR LOCAL JURISDICTION'S CODE, WHICHEVER IS MORE STRICT. ACCESSIBLE LOCKER MUST BE LOCATED WHERE THERE IS A CLEAR FLOOR SPACE TO REACH THE SHELVES, LOCK, ET
A6	ROLLER SHADE - REFER TO FF&E
A7	PREPARE & PRIME WALL - REFER TO HOME 2 INTERIOR SIGNAGE SPECIFICATION FOR GRAPHIC INSTALLATION

KEYNOTE LEGEND (FULL PROJECT)

A8	SIGNAGE GRAPHIC, SEE INTERIOR SIGNAGE SPECIFICATION PACKAGE
A9	BRAND PROMISE SIGN
A11	BOOTH, SEE FF&E SPECIFICATIONS
A12	ADJUSTABLE MARKET DISPLAY SHELVING
A14	ELEVATOR AND SURROUND - FINISH TO BE BRUSHED STAINLESS STEE
A15	STOREFRONT DOORS AND FRAMES TO MATCH EXTERIOR COLOR AND FINISH
A17	WALL MOUNTED TELEVISION, COORDINATE BLOCKING AND POWER LOCATION WITH TV MOUNT
A19	FIRE EXTINGUISHER CABINET
A20	FITNESS ROOM RULES SIGN
A23	HOUSE PHONE
A24	MARKET EQUIPMENT, SEE FOOD SERVICE DRAWINGS
A25	VISION WINDOW
A26	SHELVING, SEE FF&E SPECIFICATIONS
A27	AVOID BACKSPLASH ON WALL SINK TO ALLOW FOR MIRROR TO BE INSTALLED AT PROPER HEIGHT
A28	LEVER REQUIRED ON THE SIDE OF TANK OPPOSITE INSIDE CORNER OF WALL
A29	HYDRATION STATION
A30	PLATE MIRROR
A31	FIRE DOOR
A32	FITNESS EQUIPMENT, SEE FITNESS.HILTON.COM FOR APPROVED VENDORS
A34	COMPLIMENTARY COFFEE, TEA, & WATER STATION
A35	COMPLIMENTARY PRINT STATION
A36	WALL MOUNTED TOWEL STORAGE WITH UNDERCOUNTER LAUNDR PROVIDE BLOCKING AS REQUIRED FOR WALL MOUNTED STORAGE.
A37	FINISH AT WALL BEYOND
A38	HYDRATION STATION
B6	ACCESSIBLE VANITY UNIT, REFER TO FURNITURE DWGS
B7	ACCESSIBLE REMOVABLE TUB/SHOWER SEAT. SHOWER SEAT IS WALL MOUNTED. REFER TO ACCESSIBILITY STANDARDS AND HADG FOR REQUIREMENT
B8	CLEAR AREA OF SINK/VANITY MUST BE ACCESSIBLE
B9	SHOWER HEAD
B10	SHOWER DIVERTER VALVE
B11	HAND SHOWER. HAND-HELD SHOWER UNIT REQUIRED TO HAVE ON/OFF CONTROL WITH NON-POSITIVE SHUT OFF.
B12	VANITY MIRROR AND LIGHT FIXTURE
B13	GFCI OUTLET
B14	ON/OFF - PRESSURE BALANCING VALVE
B16	BULK AMENITY DISPENSER
B19	TOILET
B23	SHOWER SURROUND
B24	LED NIGHT LIGHT INTEGRATED WITH EITHER LIGHT SWITCH OR OUTLET
B28	BI-PASS SLIDING GLASS DOOR, BRUSHED ALUMINUM FINISH, CLEAR GLASS, WITH 24" BAR PULL HARDWARE
B30	VANITY SHELF

KEYNOTE LEGEND (FULL PROJECT)

C2	ACCESSIBLE PASSENGER DROP OFF AREA W/ ADJACENT CLEAR ACCESS AISLE - DROP OFF AND ACCESS AISLE SHALL BE AT THE SAME LEVEL & SHALL HAVE A SLOPE NOT TO EXCEED 1:48 (1:64 RECOMMENDED) - DRIVE AISLES SHALL RAMP UP TO LEVEL OF WALK AT DROP-OFF AREA - REFER TO MATERIAL LEGEND FOR SPECIFIC PAVING OF THIS AREA. REFER TO THE HADG FOR MORE INFORMATION REGARDING ACCESSIBLE PASSENGER LOADING ZONES
C3	ACCESSIBLE CURB RAMP TO MEET ALL ACCESSIBILITY REQUIREMENTS, MAXIMUM SLOPE OF RUN 1:12 (1:14 RECOMMENDED), MAXIMUM CROSS SLOPE OF 1:48 (1:64 RECOMMENDED), REFER TO THE HADG FOR FURTHER INFORMATION
C5	OPTIONAL FLAGPOLE WITH IN-GROUND UPLIGHT
C6	SPECIMEN TREE
C7	PAVED WALKWAY - SLOPE AWAY FROM BLDG. (MAX 2% CROSS SLOPE) - SILICA-BASED AGGREGATE
C8	DECORATIVE NON-SLIP PAVING
C9	LINE OF CANOPY ROOF ABOVE
C10	REINFORCED CONCRETE PAD
C11	EXTERIOR GARDEN STORAGE AREA
C15	OUTDOOR LOUNGE - REFER TO FF&E SPEC'S FOR LOOSE FURNISHINGS
C16	POOL PATIO - REFER TO FF&E SPEC'S FOR LOOSE FURNISHINGS
C18	TRELLIS ABOVE - SEE DETAILS SHEET A-305
C19	ACCESSIBLE ROUTE FROM ACCESSIBLE PARKING TO BUILDING ENTRANCE. PROVIDE A RUNNING SLOPE OF MAXIMUM 1:20 AND A CROSS SLOPE OF MAXIMUM 1:48 (1:64 RECOMMENDED). REFER TO HADG FOR FURTHER INFORMATION.
C24	ASPHALT OR CONC. PAVING SHALL COMPLY W/ LOCAL REQUIREMENTS - PROVIDE POSITIVE DRAINAGE AWAY FROM BLDG. - COORDINATE SITE DRAINAGE & DETENTION W/ CIVIL ENGINEER
C25	PARTIAL HEIGHT WALL
C28	CONTINUOUS CONCRETE CURB - TYP.
C31	EXTERIOR FIRE PIT WITH MANUAL EMERGENCY REMOTE SHUT-OFF VALVE, SECURE IN PLACE TO RESIST MOVEMENT. FEED WITH UNDERGROUND LINE FROM BUILDING GAS SERVICE. PROVIDE APPROPRIATELY SIZED SAFETY SCREEN
C32	EXPANSION JOINT
C33	CONTROL JOINT
C35	LANDSCAPE AREA - REFER TO LANDSCAPE SHEETS FOR PLANTING PLAN
C38	PRIMED AND PAINTED TUBE STEEL CANOPY COLUMNS
C40	EXTERIOR GAS GRILL. GRILLS REQUIRE REMOTE EMERGENCY SHUT OFF.
C45	FLUSH CURB ALONG ENTIRE LENGTH OF ACCESSIBLE DROP OFF
C47	TRASH, RECYCLING, AND ASH BIN
C48	24" X 54" FRC PLANTERS
C51	EMERGENCY GAS SHUT OFF
C52	PROVIDE POWER FOR PLUG IN STRIP LIGHT AT TRELLIS
D9	SHOWER HEAD
D12	VANITY MIRROR AND LIGHT FIXTURE
D19	TOILET
D20	FLOOR DRAIN LOCATION - MAINTAIN ACCESSIBLE COMPLIANT SLOPES TO DRAIN
D22	FRAMING SUBCONTRACTOR TO PROVIDE 3/4" F.R.T. PLYWOOD BLOCKING TO RECEIVE ITEM INDICATED - EXTEND FULL LENGTH OF OBJECT
D23	SHOWER SURROUND
D27	DOOR STOP HARDWARE REQUIRED TO KEEP HARDWARE AT BACK OF DOOR FROM HITTING GLASS WHEN FULLY AJAR
D30	VANITY SHELF
E1	DOUBLE ROLL TOILET TISSUE HOLDER
E2	WALL-MOUNTED SANITARY SEAT COVER DISPENSER
E3	SANITARY NAPKIN DISPOSAL TRASH BIN (AT WOMEN'S AND UNISEX)
E4	FREESTANDING DECORATIVE TRASH RECEPTACLE
E5	DECORATIVE TOUCHLESS LIQUID SOAP DISPENSER
E6	DECORATIVE FACIAL TISSUE DISPENSER RECESSED IN WALL
E7	COAT HOOKS AT BACK OF THE DOOR
E8	MOTION-ACTIVATED PAPER TOWEL DISPENSER

REFLECTED CEILING PLAN GENERAL NOTES

1. SEE MEP SET FOR LOCATIONS OF ALL LIGHT FIXTURES AND MECHANICAL DIFFUSERS.
2. COORDINATE ANY DISCREPANCIES WITH MEP AND ARCHITECT PRIOR TO INSTALLATION.
3. REFERENCE ALL INTERIORS DRAWINGS FOR COORDINATION.
4. ALL CEILINGS TO CONFORM TO 2018 IBC TABLE 803.13.
5. ALL ACT TILES TO BE WHOLE DIMENSIONS AND ARE NOT TO BE FIELD CUT, ALL ACT TO BE FIELD CENTERED IN SPACE, U.N.O. OR DIMENSIONED.
6. SEE ENLARGED UNIT PLANS (A-400 SERIES) FOR ALL UNIT RCP PLANS EXCEPT WHERE HEIGHTS ARE LISTED ON RCP PLANS IN A-100 SERIES.
7. ALL EXPOSED EQUIPMENT (I.E. SPRINKLER HEADS) TO BE ALIGNED AND CENTERED IN GEOMETRY AND PLACED INCONSPICUOUSLY. SPRINKLERS IN COMMON AREAS TO BE RECESSED.
8. WHERE CEILING HEIGHT IS B.O. FLOOR ASSEMBLY, FINISH TO BE LEVEL FOUR FINISH. ALL UNITS TO HAVE A LEVEL FOUR FINISH AT CEILINGS.
9. ALL MECH DUCTS WHICH FEED TO PLENUM SPACE VIA MECH SHAFTS SHALL BE ENCLOSED ON THE BOTTOM ACCORDING TO PROGRESSIVE ENGINEERING REPORT AER-09-038.
10. ACCESS TO EQUIPMENT SHALL BE THROUGH ACT WHERE AVAILABLE. WHERE NECESSARY, ACCESS THROUGH GWB CEILING TO USE ACCESS HATCHES. GC TO PROVIDE HATCHES AND HATCH LOCATION DIAGRAM PRIOR TO INSTALL.
11. ALL DIMENSIONS FOR CEILINGS ARE TO FINISHED FACE. ALL DIMENSIONS TO WALLS ARE TO F.O. STUD.
12. ALL DROPPED SOFFIT FRAMING IN COMMON AREAS SHALL BE OUT OF METAL STUDS. ONE (1) HOUR RATED CEILING THROUGHOUT BUILDING AT UNDERSIDE OF ROOF TRUSSES AND ARE PART OF THE FIRE RATED FLOOR-CEILING ASSEMBLY
13. MISCELLANEOUS SYMBOLS INDICATED ON REFLECTED CEILING PLAN ARE MECHANICAL IN NATURE. REFER TO MEP DRAWING SHEETS FOR FURTHER CLARIFICATION FOR ITEM IDENTIFICATION AND LOCATIONS.

ELEVATION GENERAL NOTES

1. ALL EXTERIOR SURFACES TO BE FINISHED UNO, INCLUDING BUT NOT LIMITED TO TRIM, SIDING, GRILLS, VENTS, STACKS, ETC.
2. CAULK ALL JOINTS AND SEAMS BETWEEN DISSIMILAR MATERIALS FOR WEATHERTIGHT, WATERTIGHT, AIRTIGHT PERFORMANCE.
3. ALL FACADE MATERIAL TO WRAP BACK TO INSIDE BUILDING CORNER, UNO.
4. ALL SURFACE RUNS GREATER THAN 25'-0" & INTERIOR CORNERS TO RECEIVE CONTROL JOINT; COORDINATE LOCATION WITH ARCH.

PLAN GENERAL NOTES

01 - GENERAL
A. ALL NEW WORK TO MEET ALL APPLICABLE BUILDING, PLUMBING, MECHANICAL, ELECTRICAL, HANDICAP, AND LIFE SAFETY CODES AND REQUIREMENTS.
B. ALL WALL DIMENSIONS ARE TO FACE OF STUD, UNLESS NOTED OTHERWISE.
C. DO NOT SCALE DRAWINGS.
D. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN PROJECT DOCUMENTS AND EXISTING CONDITIONS. ANY MODIFICATIONS DUE TO DIMENSIONAL CHANGES SHOULD BE PART OF THE PROJECT COST.
E. GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL THOROUGHLY FAMILIARIZE THEMSELVES TO ALL SITE SPECIFIC REQUIREMENTS AND EXTENTS OF THE NEW WORK PRIOR TO BIDDING. NO CHANGES IN THE CONTRACT WILL BE CONSIDERED FOR INFORMATION DISCERNABLE FROM THE EXISTING CONDITIONS OR THE PROJECT DOCUMENTS.
F. CONTRACTORS SHALL BE FAMILIAR AND INCORPORATE ALL PROVISIONS AND REQUIREMENTS ESTABLISHED BY CODES APPLICABLE TO THE PROJECT INCLUDING FAIR HOUSING, UFAS, ANSI, & ADAAG
G. TYPICAL TOP OF FIRST FLOOR SUBFLOOR ELEVATION IS REFERENCED AS 100'-0". CONTRACTOR SHALL VERIFY BUILDING FINISH FLOOR ELEVATION WITH ACTUAL CONDITIONS. COORDINATE ACTUAL GRADE WITH CIVIL DRAWINGS.
H. FULLY ACCESSIBLE UNITS SHALL MEET THE REQUIREMENTS OF 2009 ICC/ANSI A117.1 - TYPE 'A' DWELLING UNITS AND 2010 ADAAG (DOJ). ALL OTHER DWELLING UNITS TO BE TYPE 'B'.
I. MAIN LEVEL ELEVATION IS T.O. GYPCRETE, OR T.O. CONCRETE SLAB, RESPECTIVELY.
J. LEVELS ABOVE MAIN LEVEL ARE MEASURED TO T.O. SUBFLOOR.
K. WHOLE BUILDING TO MEET FAIR HOUSING ACT.
L. ALL PENETRATIONS INTO FIRE-RATED ASSEMBLIES ARE TO BE FIRESTOPPED WITH UL APPROVED FIRESTOPPING ASSEMBLIES. UL INFORMATION SHALL BE PROVIDED BY TRADE RESPONSIBLE FOR PENETRATION. REFERENCE THE G200 SERIES.
M. THROUGH PENETRATIONS NOT LOCATED WITHIN WALL CAVITY OR FLOOR/CEILING/ROOF ASSEMBLY SHALL BE REQUIRED TO HAVE FIRE RESISTIVE PENETRATION WITH A T-RATING EQUAL TO OR EXCEEDING THE ASSEMBLY THAT IS PENETRATED.
N. CONTROL JOINTS IN GWB AT ALL UNIT CORRIDORS SHALL BE LOCATED AT INSIDE CORNER OF PILASTERS AND ACROSS TOP OF DROP SOFFIT AT PILASTERS. AT LOCATIONS WHICH THERE IS A 30' SPAN BETWEEN PILASTERS, A CONTROL JOINT SHALL OCCUR AT THE CENTRAL LOCATION BETWEEN THE TWO PILASTERS ADJACENT TO THE NEAREST DOOR, RUNNING FROM HEAD TO T.O. PARTITION AT CORNER. AT LOCATIONS WHICH THERE IS A 30' SPAN BETWEEN SOFFIT WHERE PILASTER OCCURS, A CONTROL JOINT SHALL OCCUR AT THE INSIDE CORNER OF PILASTER AND SOFFITS. CONTROL JOINTS SHALL OCCUR AT THE CORNERS OF ALL STOREFRONT, RUNNING TO THE T.O. THE PARTITION. GC TO VERIFY WITH ARCHITECT DURING CONSTRUCTION ALL CONTROL JOINT LOCATIONS PRIOR TO INSTALL.
O. PROVIDE FIREBLOCKING AND DRAFTSTOPPING AS REQUIRED AND IN ACCORDANCE WITH 2018 IBC, SECTION 718.
P. CONTRACTOR TO PROVIDE FIRE BLOCKING AT FIRE SEPARATION PARTITION AT 10' ON CENTER VERTICALLY, TYPICAL. CONTRACTOR TO PROVIDE FIRE BLOCKING AT FIRE SEPARATION PARTITION AT ALL BACK-TO-BACK ELECTRICAL OUTLETS.
Q. ALL INTERIOR WALLS ARE TYPE P1, UNLESS NOTED OTHERWISE. ALL EXTERIOR WALLS ARE TYPE P30, UNLESS NOTED OTHERWISE. SEE SHEET G-101 FOR PARTITION SCHEDULE.
R. ALL EXTERIOR MATERIALS TO BE APPLIED PER MANUFACTURER RECOMMENDATIONS AND WITH ASSOCIATED PRODUCTS (SUCH AS STAPLES, NAILS, TAPER, SEALANT).

03 - CONCRETE
A. CONCRETE SEALANT TO BE USED ON FIRST FLOOR WHERE RECEIVING RESILIENT VINYL FLOORING.
B. AT SLAB ON GRADE UNITS, LEVEL CONCRETE SURFACE AT AREAS WHERE VCT FLOORING TO BE INSTALLED.

04 - MASONRY
A. ALL EXTERIOR BRICK TO HAVE WEEP HOLES AT MAX 2' ABOVE GRADE
B. ALL EXTERIOR BRICK TO EXTEND BELOW GRADE BY 3 COURSES (8") MIN. AND HAVE A BRICK LEDGE.
C. ALL LOCATIONS WITH EXTERIOR BRICK TO BE GROUTED SOLID FROM BELOW GRADE CONDITION TO LOWEST WEEP HOLE.

05 - METALS
A. STAIR HANDRAILS, TREADS, STRINGERS TO BE PRE-FINISHED OR PAINTED STEEL.
B. ALL DOWNSPOUTS TO BE CONNECTED TO UNDERDRAINS, SLOPED AWAY FROM BUILDING.
C. ALL EXTERIOR METAL TO BE PRE-FINISHED OR PRIMED/PAINTED. COLOR PER ARCH.

06 - WOOD, PLASTICS AND COMPOSITES
A. ALL COMMON SPACE, UNIT TOILET ROOMS, AND BATHROOMS TO HAVE BLOCKING FOR GRAB BARS. SEE G-302 FOR HEIGHTS AND LOCATIONS. GRAB BARS TO BE INSTALLED IN ALL COMMON SPACE, UNIT TOILET ROOMS, AND BATHROOMS. BLOCKING TO BE PROVIDED FOR ALL SHOWER GRAB BARS AND SEATING AS REQUIRED BY MANUFACTURER.
B. CONTRACTOR TO COORDINATE BLOCKING AT ALL ADJACENT POCKET DOORS, MEDICINE CABINETS, AND OTHER ELEMENTS.
C. AT ALL IDF, MDF & ELEC ROOMS; INTERIOR FINISH TO BE FIRE-TREATED PLYWOOD PAINTED WHITE ON ALL WALLS
D. ALL SHEAR WALL LOCATIONS & EXTENT OF SHEATHING TO BE COORDINATE WITH STRUCTURAL DRAWINGS.
E. ALL EXPOSED CABINET ENDS TO HAVE FINISHED PANELS, INCLUDING BUT NOT LIMITED TO END OF CABINET RUN, ADJACENT TO REFRIGERATOR, LOCATIONS OF VERTICAL OFFSETS.

07 - THERMAL AND MOISTURE PROTECTION
A. CAULK ALL JOINTS BETWEEN DISSIMILAR MATERIALS FOR WEATHER TIGHT, WATERTIGHT, AIRTIGHT, ETC. PERFORMANCE.
B. ALL EXTERIOR WRB TO BE APPLIED, TAPERED AND SEALED PER INSTRUCTIONS
C. PROVIDE SOUND ATTENUATION INSULATION OVER ALL BATHROOM CEILINGS AND IN BATHROOM WALLS, TYPICAL ALL BATHROOMS
D. AT EXTERIOR WALLS, CAULK CONTROL JOINTS IN FLOOR SLAB 12" INTO BUILDING TO PREVENT AGAINST WATER INFILTRATION.

08 - OPENINGS
A. DOORS- ELECTRICIAN IS REQUIRED TO COORDINATE WITH DOOR HARDWARE SCHEDULE FOR ALL ELECTRICAL ROUGH IN REQUIREMENTS FOR DOORS, INCLUDING AUTO OPERATORS, MAG HOLD OPENS, ELECTRONIC STRIKES, KEYPADS AND MAG LOCKS.
B. ALL DOOR HARDWARE SHALL BE COORDINATED W/ OWNER.

09 - FINISHES
A. PRIME, PAINT AND SEAL ALL WALLS, COLUMNS AND CEILINGS AS REQUIRED PRIOR TO INSTALLATION OF M/E/P/F/TELEPHONE/SECURITY INSTALLATION.
B. CONTRACTOR TO COORDINATE ALL WET WALLS WITH ADJACENT RATINGS AND TO ACCOMMODATE PLUMBING FIXTURES. WALLS TO BE ALIGNED.
C. ALL WALLS TO BE ALIGNED AS INDICATED ON DRAWINGS - IF WALL IS MISALIGNED MID-WALL AND WILL AFFECT VISUAL APPEARANCE IN ROOM (I.E. 'JOG' WILL APPEAR) GC TO BRING TO ARCH ATTENTION PRIOR TO FINISHING
D. FLOOR TRANSITION SHALL OCCUR AT MIDDLE OF WALL WHERE OCCURS IN DOORWAY. PROVIDE VINYL REDUCER STRIP.

PLAN GENERAL NOTES - (CONT.)

10 - SPECIALTIES
A. CORNER GUARDS AT COMMON SPACES, PER INTERIORS.
B. PROVIDE VENTILATED WIRE SHELVING AT ALL CLOSETS AND PANTRY UNO. REFERENCE KEYED ENLARGED FLOOR PLAN NOTES ON A400 SHEETS FOR LOCATIONS. DEPTH TO BE COORDINATED WITH ANY LIGHT FIXTURES TO NOT ENCROACH ON IFC CLEARANCES.
C. TOILET PAPER DISPENSER TO BE INSTALLED PER D1/G-302 AND 2009 ICC ANSI 117.1.
D. SEE G-301 FOR SIGNAGE REQUIREMENTS.
NUMBERING OF UNITS AND ROOMS SHALL BE UPDATED TO MEET AHJ AND OWNER REQUIREMENTS PRIOR TO SIGNAGE PRODUCTION.

21 - FIRE SUPPRESSION
A. ALL UNITS TO HAVE APPROPRIATE NUMBER OF SMOKE DETECTORS INSTALLED INTERCONNECTED AND HARD-WIRED WITH BATTERY BACKUP PER CODE, INCLUDING ONE (1) IN EACH BEDROOM.
B. FIRE EXTINGUISHERS SHALL BE LOCATED SO THAT THE MAXIMUM TRAVEL DISTANCE SHALL NOT EXCEED 75 FEET. GENERAL CONTRACTOR TO PROVIDE SEMI-RECESSED TYPE THROUGHOUT WITH RATED CABINET. PROVIDE (1) TYPE "CLASS K" WITHIN 30 FEET OF COMMERCIAL COOKING EQUIPMENT.
C. CONCEALED SPRINKLER HEADS TO BE USED U.N.O.
D. DRY SPRINKLERS TO BE COORDINATED WITH DESIGN-BUILD CONTRACTOR. ALL SPRINKLERS IN BUILDING CAN BE WET. SPRINKLER LOCATIONS AND SPRINKLER EQUIP TO BE COORDINATED W/ ARCH PRIOR TO INSTALL - GC TO PROVIDE LOCATIONS OF HEADS ON RCPS FOR ARCH REVIEW PRIOR TO INSTALL. GC TO COORD FIRE SPRINKLER LINER W/ ALL MEP IN CORRIDOR SPACE TO MAINTAIN CEILING TYPE & HT. PER ARCH DWGS

22 - PLUMBING
A. PLUMBING VENT STACKS, FLUES, FRESH AIR INTAKES, ETC. NOT SHOWN FOR CLARITY. SEE MEP DRAWINGS FOR HVAC/ELECTRICAL/PLUMBING REQUIREMENTS/EQUIPMENT/LOCATIONS. GC TO VERIFY LOCATIONS OF ALL SIDEWALL VENTS PRIOR TO INSTALL.
B. PROVIDE FLOOR DRAINS AS INDICATED ON PLUMBING DRAWINGS AND PER APPLICABLE PLUMBING CODE.
C. DRAINAGE SHALL BE PER 2018 IBC 3201.4 - DRAINAGE WATER COLLECTED FROM A ROOF, AWNING, CANOPY OR MARQUEE AND CONDENSATE FROM MECHANICAL EQUIPMENT SHALL NOT FLOW OVER A PUBLIC WALKING SURFACE
D. CONTRACTOR TO COORDINATE MECHANICAL DUCT, SPRINKLER, PLUMBING, AND ELECTRICAL SUCH THAT CEILING HEIGHTS AND LOCATIONS ARE MAINTAINED PER REFLECTED CEILING PLANS.
E. ALL DOWNSPOUTS INTO COURTYARDS AND AT HARDSCAPE TO BE HARDPIPED TO STORM SEWER. GUTTERS/DOWNSPOUTS SHALL NOT FLOW OVER SIDEWALKS OR OTHER HARDSCAPE.

23 - HVAC
A. GC TO COORDINATE MECHANICAL PADS FOR ROOFTOP AND GROUND MOUNTED UNITS.

26 - ELECTRICAL
A. SEE ELECTRICAL PLANS FOR ELECTRIC DEVICE LAYOUTS.
B. SEE D4/G-300 FOR ELECTRICAL MOUNTING HEIGHT REQUIREMENTS.
C. PROVIDE EXIT SIGNS AT LOCATIONS AND PER **1007.1, 2018 IBC. -** A TACTILE SIGN STATING 'EXIT' AND COMPLYING WITH ICC A117.1 SHALL BE PROVIDED ADJACENT TO EACH DOOR TO AN AREA OF REFUGE, AN EXTERIOR AREA FOR ASSISTED RESCUE, AN EXIT STAIRWAY, AN EXIT RAMP, AN EXIT PASSAGEWAY AND THE EXIT DISCHARGE
D. PROVIDE DIMMER CAPABILITY FOR ALL COMMON AREA DECORATIVE AND DOWNLIGHTS/SPOTS (CAN LIGHTS).
E. TIMECLOCK AND PHOTOCELL FOR EXTERIOR LIGHTS. MULTIPLE ZONES MAY BE NECESSARY. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
F. ALL ELECTRICAL AND IDF/MDF ROOMS TO HAVE SOLID BLOCKING TO ACCOMMODATE PANEL ATTACHMENT. BLOCKING TO BE PAINTED TO MATCH WALLS. WALLS TO REMAIN RATED AS INDICATED PER PLAN.
G. FIRE PULL STATIONS TO BE PROVIDED PER 2018 IFC AND A.H.J.
H. ALL LIGHTING, T-STATS AND OTHER SWITCHES TO BE INSTALLED PER ANSI 117.1, 2010 ADAAG, AND THE FAIR HOUSING ACT. LOCATIONS AND GROUPINGS OF SWITCHES TO BE ACCEPTED BY ARCH PRIOR TO INSTALL.

ROOF PLAN GENERAL NOTES

1. ALL NEW WORK TO MEET ALL APPLICABLE BUILDING, PLUMBING, MECHANICAL, HANDICAP, AND LIFE SAFETY CODES AND REQUIREMENTS.
2. THE MINIMUM NET FREE VENTILATING AREA SHALL BE 1/150 OF THE AREA OF THE SPACE VENTILATED. THE OPENINGS SHALL BE COVERED WITH CORROSION-RESISTANT MESH OR OTHER APPROVED MATERIALS WITH OPENINGS NOT MORE THAN 1/2" IN ANY DIRECTION.
3. WHERE RIDGE OR GABLE VENTS ARE UTILIZED, ADDITIONAL PROTECTION AGAINST SNOW INFILTRATION SHALL BE PROVIDED BY BALANCING THE AREA OF THE VENTS IN THE RIDGES AND THE EAVES SUCH THAT AT LEAST 1/2 OF THE VENTILATION AREA SHALL BE PROVIDED BY SOFFIT OR EAVE VENTS, WITH THE BALANCE OF THE VENTILATION OPENINGS PROVIDED BY THE GABLE OR RIDGE VENTS. REFERENCE IBC 2012 SECTION 1203.
4. ALL FLOOR JOIST BEARING HEIGHTS ARE 8'-1 1/8". ALL ROOF TRUSS BEARING HEIGHTS ARE 8' - 1 1/8". REFERENCE WALL SECTIONS ON A300 SHEETS.
5. 1'-0" ROOF SOFFIT, UNLESS NOTED OTHERWISE, REF: ROOF PLAN.
6. CONTRACTOR TO INSTALL GUTTERS, DOWNSPOUTS AND ALL FLASHING PER APPLICABLE SMACNA GUIDELINES. IF ADDITIONAL DOWNSPOUTS ARE REQUIRED, CONTRACTOR SHALL CONFIRM LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
7. MEMBRANE ROOFING SYSTEM ON RIGID INSULATION, ALL ROOF LOCATIONS TYP. U.O.N.
8. COLORS T.B.D., COORDINATE WITH ARCHITECT.

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STATE OF MISSOURI
DAVID EUGENE HENDRIKSE
NUMBER A-7305
REGISTERED ARCHITECT
04/17/2024

HOME2 SUITES BY HILTON

LEE'S SUMMIT, MO

SHEET TITLE
PLAN GENERAL NOTES & KEYNOTES

PROJECT NUMBER: 22023

SHEET NUMBER:

G-003

WEATHER-RESISTIVE BARRIER INSTALLATION GUIDELINES

WEATHER-RESISTIVE BARRIER INSTALLATION ON VERTICAL WALLS

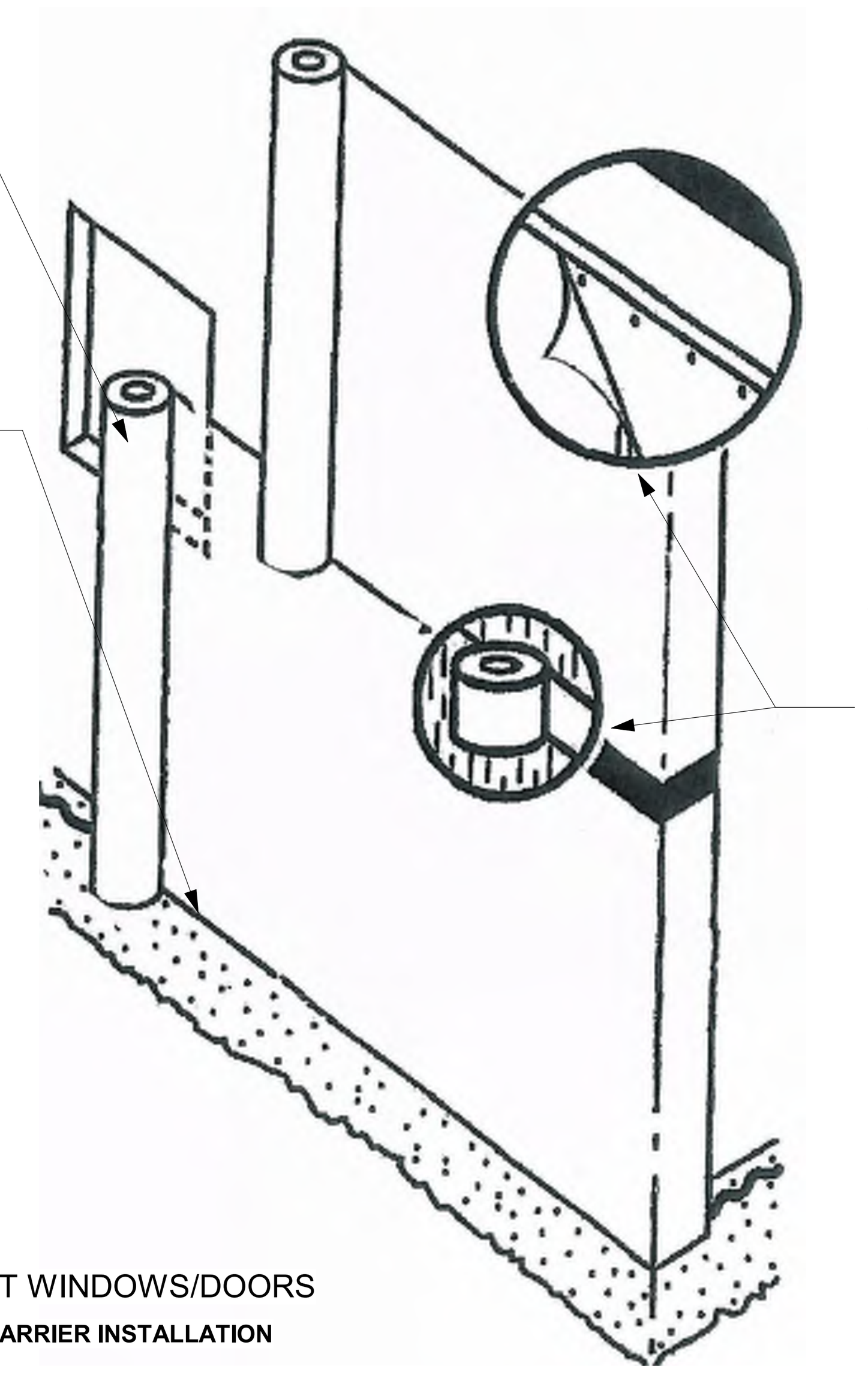
PRIOR TO INSTALLATION OF WINDOWS OR DOORS

STEP 1
UNWRAP ROLL AT CORNER, LEAVE 6" TO 12" OVERLAP - PRINTED STUD MARKS TO LINE UP WITH FIRST STUD.

STEP 2
ROLL SHOULD BE PLUMB - EXTEND BOTTOM ROLL EDGE OVER SILL PLATE INTERFACE AT LEAST 2" TO 3".

STEP 3A
WEATHER-RESISTIVE BARRIER TO BE SECURED ON VERTICAL STUD LINE EVERY 12" TO 18". WHEN USING WOOD, INSULATED SHEATHING BOARD, OR EXTERIOR GYPSUM BOARD; LARGE HEAD OR PLASTIC WEATHER HEAD NAIL USE IS BEST PRACTICE. ALSO, 1" MIN. CROWN WIDE STAPLES MAY BE USED.

STEP 3B
WHEN USING MASONRY, TEMPORARILY ATTACH BARRIER WITH ADHESIVES CONTAINING POLYURETHANE, ELASTOMERIC, OR LATEX BASE IN VERTICAL STRIPS - SPACE APPROXIMATELY 24" APART (CONSULT BUILDING WRAP MANUFACTURER FOR LIST OF SUGGESTED ADHESIVES). AS A PERMANENT ATTACHMENT, USE CLADDING FASTENERS.



STEP 4
DIRECTLY UNROLL BARRIER OVER WINDOWS AND DOORS - UPPER ROLL TO OVERLAP BOTTOM ROLL 6" HORIZONTALLY.

STEP 5
UPPER OF UPPER AND LOWER PLATES TO BE COVERED BY BARRIER - TAPE ALL HORIZONTAL SEAMS AT BAND JOISTS, HEADERS AND ROLL OVERLAPS USING 2" OR 3" MANUFACTURER APPROVED TAPE. ALL ACCIDENTAL TEARS, DAMAGE OR PENETRATIONS TO BE TAPED.

FLASHING SYSTEM INSTALLATION AT WINDOWS/DOORS

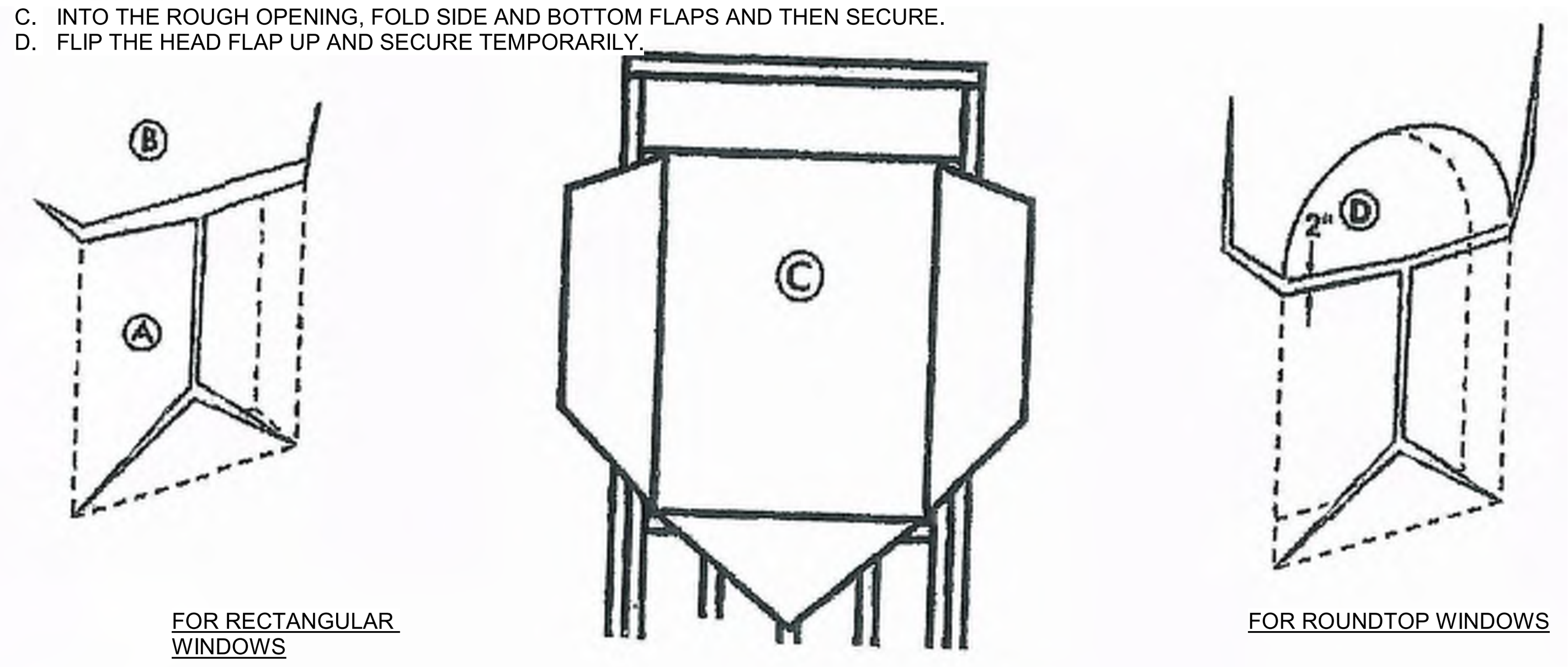
UPON COMPLETION OF WEATHER-RESISTIVE BARRIER INSTALLATION

GENERAL INSTRUCTIONS

- USE AND INSTALL APPROVED FLASHING PER WEATHER-RESISTIVE BARRIER MANUFACTURER'S RECOMMENDATIONS.
- INSTALL FLASHING ON CLEAN, DRY SURFACES. SURFACES TO BE WIPED TO REMOVE MOISTURE, DIRT, GREASE AND OTHER DEBRIS WHICH MAY INTERFERE WITH ADHESION.
- PRESSURE TO BE APPLIED ALONG ENTIRE SURFACE TO ACHIEVE A GOOD BOND.
- SMOOTH/REPOSITION SURFACE AS NECESSARY TO ELIMINATE ALL WRINKLES AND BUBBLES.

STEP 6
PREPARE WEATHER-RESISTIVE BARRIER FOR WINDOW OR DOOR INSTALLATION:

A. MAKE A MODIFIED 'I-CUT' IN THE BARRIER, BEGINNING WITH A HORIZONTAL CUT ACROSS THE TOP OF THE WINDOW FRAME. (FOR ROUNDTOP WINDOWS, BEGIN THE CUT 2" ABOVE THE MULL JOINT; SEE D). CUT STRAIGHT DOWN FROM THE CENTER APPROXIMATELY 2/3 OF THE WAY, THEN ANGLE THE CUT TO THE CORNERS (SEE A).
B. TO EXPOSE SHEATHING, OR FRAMING MEMBERS, AND TO ALLOW FOR HEAD FLASHING INSTALLATION, CUT A FLAP ABOVE THE ROUGH OPENING.
C. INTO THE ROUGH OPENING, FOLD SIDE AND BOTTOM FLAPS AND THEN SECURE.
D. FLIP THE HEAD FLAP UP AND SECURE TEMPORARILY.

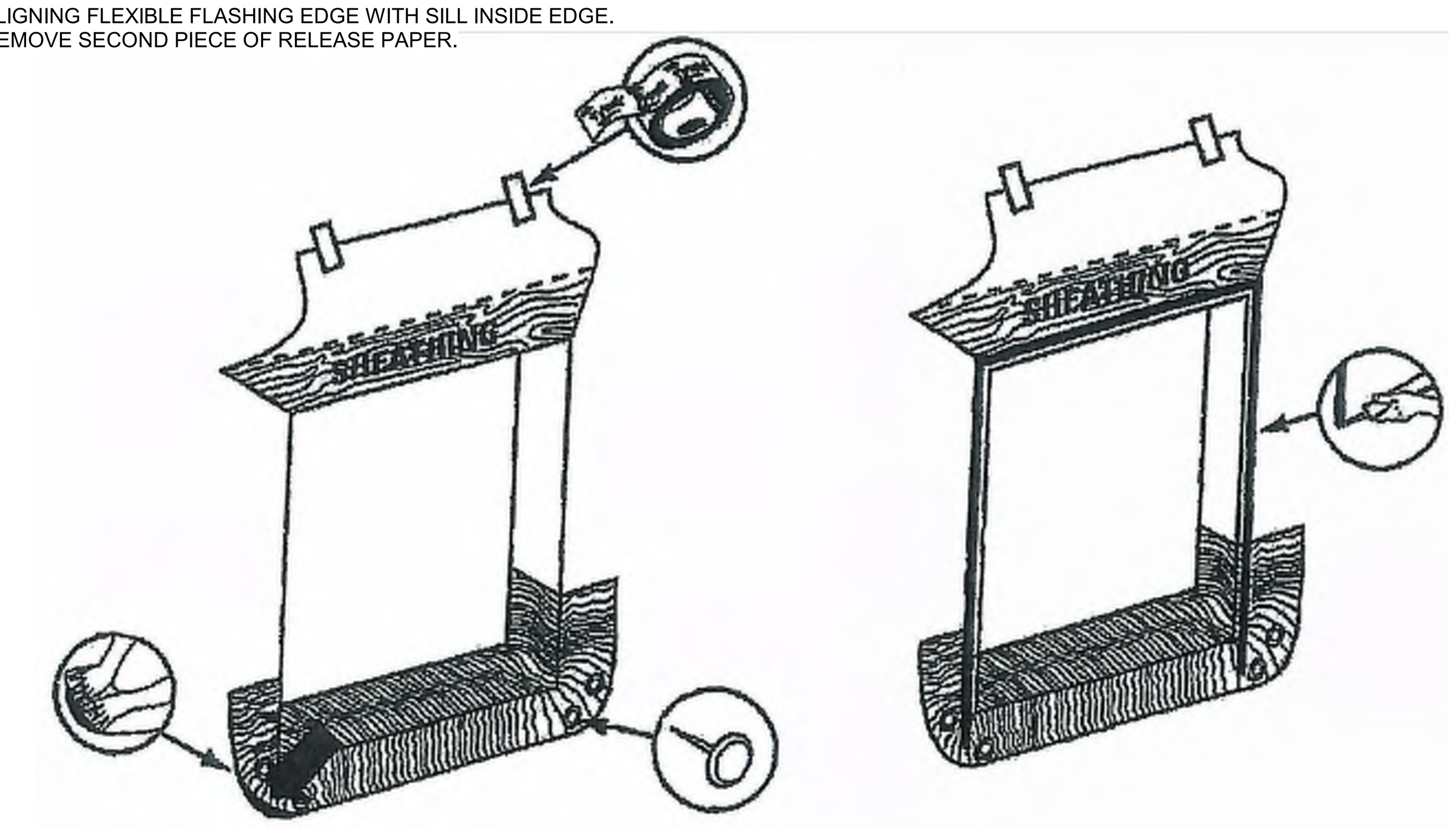


FOR RECTANGULAR WINDOWS

FOR ROUNDTOP WINDOWS

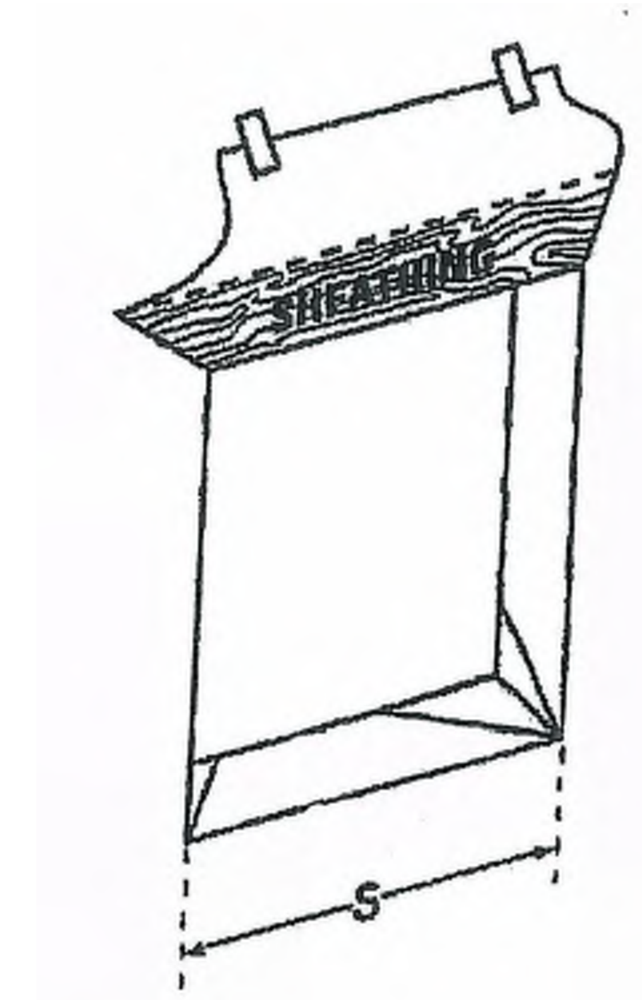
STEP 7

A. CUT FLEXIBLE FLASHING AT LEAST 12" LONGER THAN SILL ROUGH OPENING WIDTH.
B. REMOVE FIRST PIECE OF RELEASE PAPER, COVER HORIZONTAL SILL BY ALIGNING INSIDE EDGE OF SILL, AND SECURE IN ROUGH OPENING ACROSS SILL AND TURN UP JAMBS - MINIMUM 6". COVER HORIZONTAL SILL BY ALIGNING FLEXIBLE FLASHING EDGE WITH SILL INSIDE EDGE.
C. REMOVE SECOND PIECE OF RELEASE PAPER.



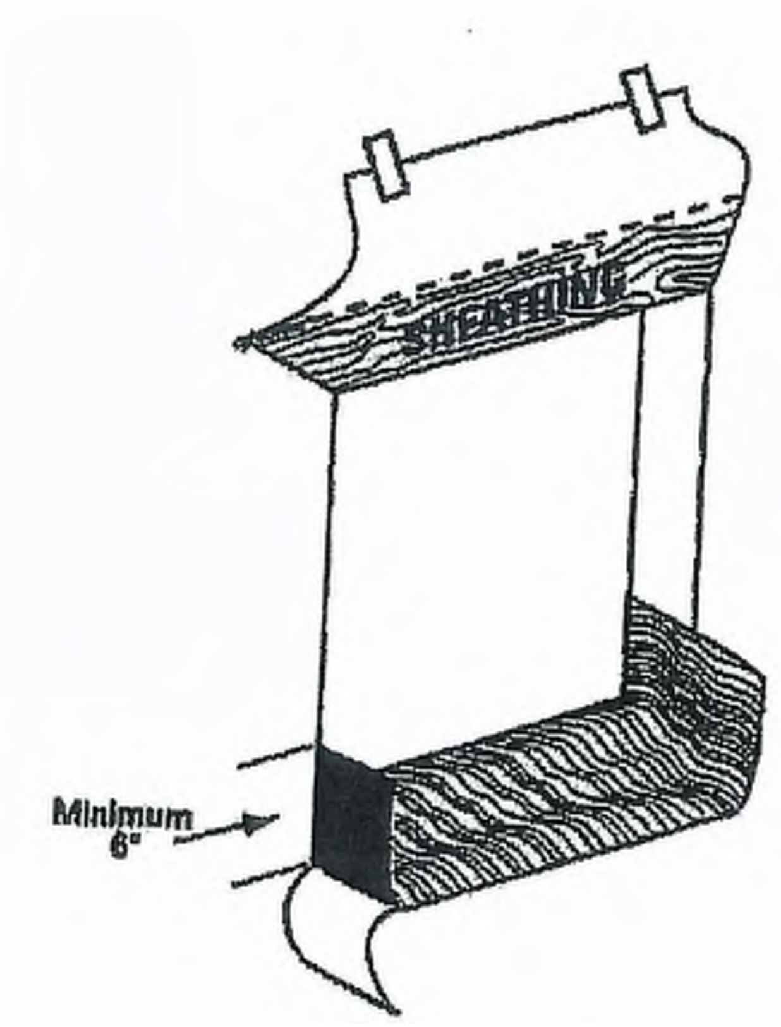
STEP 8

A. FAN FLEXIBLE FLASHING ONTO WALL FACE AT BOTTOM CORNERS.
B. PRESS SILL FLASHING FIRMLY TO ENSURE FULL ADHESION.
C. **FANNED EDGES TO BE SECURED WITH MECHANICAL FASTENERS.**



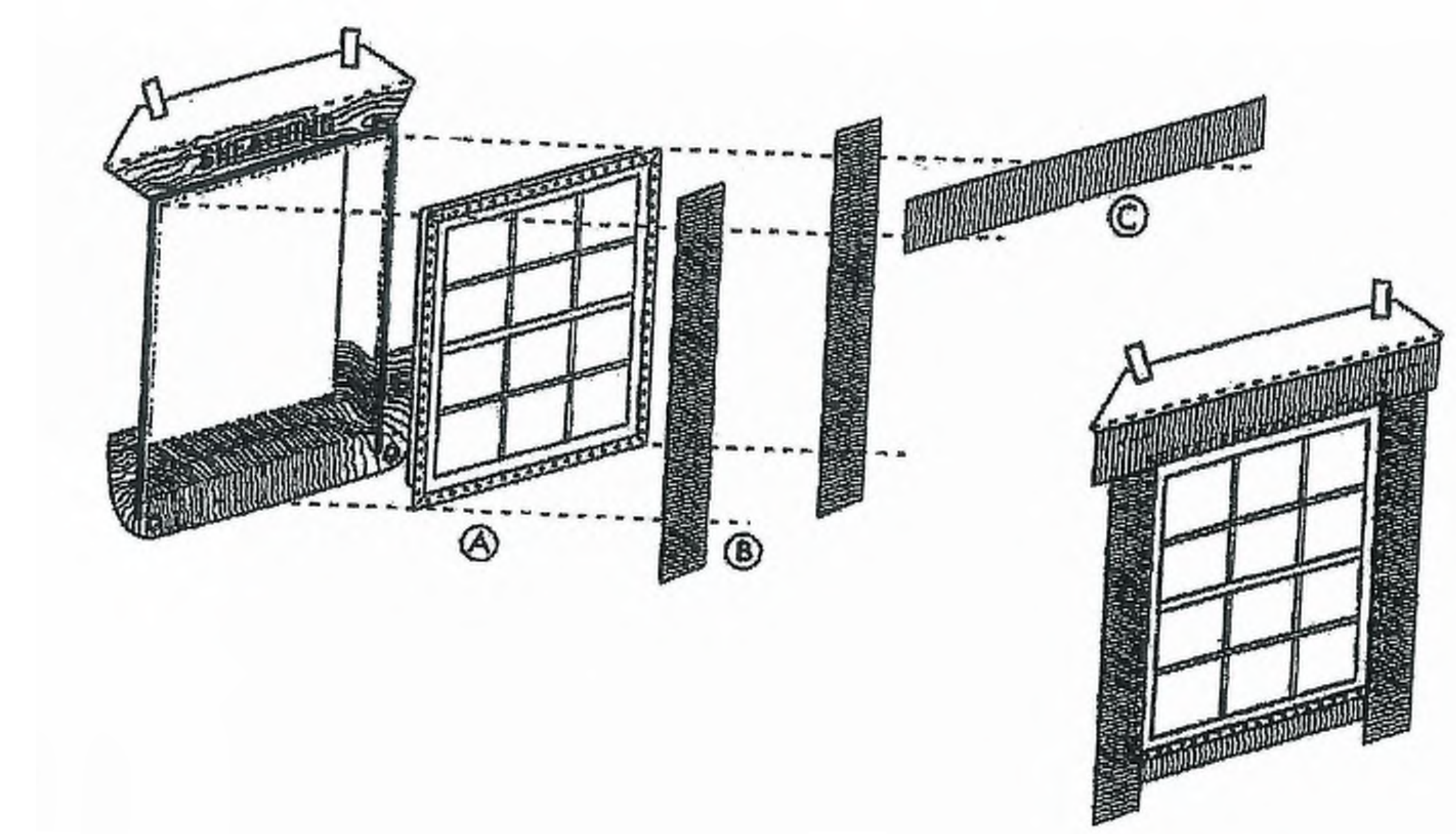
STEP 9

A. AT WALL OR BACK SIDE OF WINDOW MOUNTING FLANGE, APPLY A CONTINUOUS BEAD OF CAULK ACROSS JAMBS AND HEAD - BOTTOM SILL FLANGE TO REMAIN UNCAULKED.
B. **CAULK NOT TO BE APPLIED TO BOTTOM SILL FLANGE.**



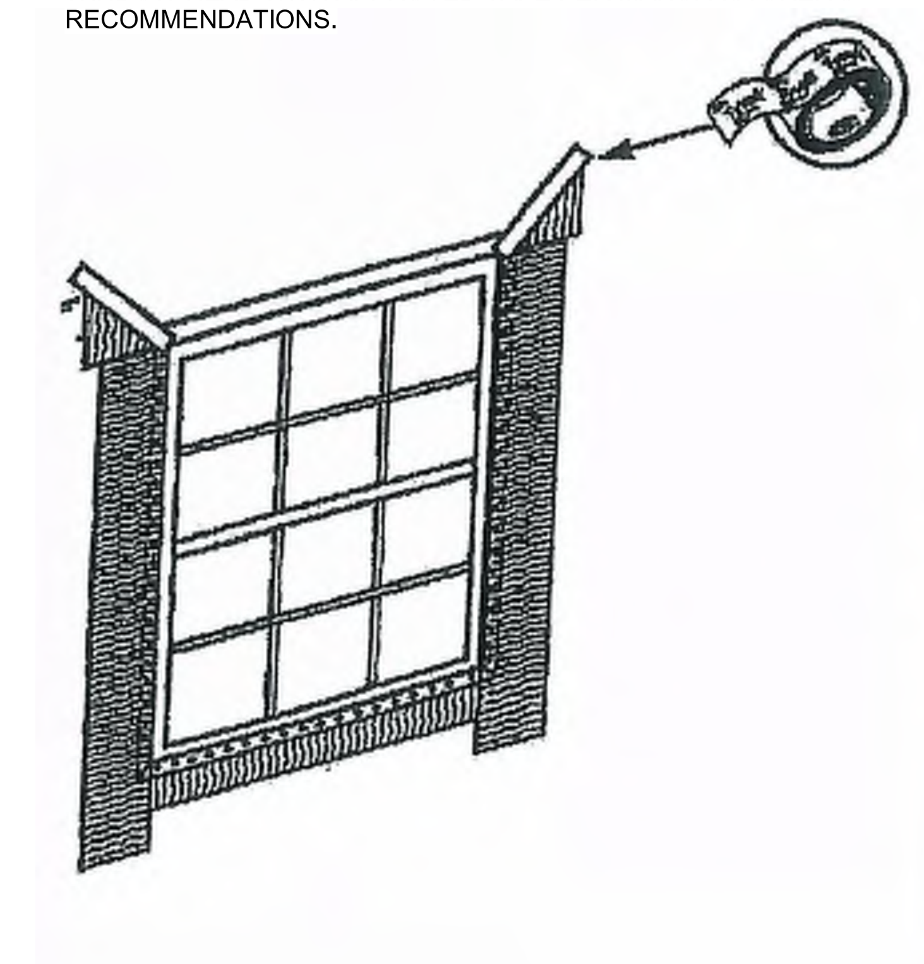
STEP 10

A. INSTALL WINDOW/DOOR PER MANUFACTURER'S INSTRUCTIONS. (IMAGE A)
B. CUT TWO PIECES OF FLASHING OR FLEXIBLE FLASHING FOR JAMB FLASHING TO EXTEND 1" ABOVE WINDOW HEAD FLANGE AND BELOW BOTTOM EDGE OF SILL FLASHING. REMOVE RELEASE PAPER AND TIGHTLY PRESS ALONG SIDES OF WINDOW FRAME. (IMAGE B)
C. CUT A PIECE OF FLASHING OR FLEXIBLE FLASHING FOR HEAD FLASHING, TO EXTEND BEYOND OUTER EDGES OF JAMB FLASHING. REMOVE RELEASE PAPER AND INSTALL COMPLETELY COVERING MOUNTING FLANGE AND ADHERING TO EXPOSED SHEATHING OR FRAMING MEMBERS. (IMAGE C)



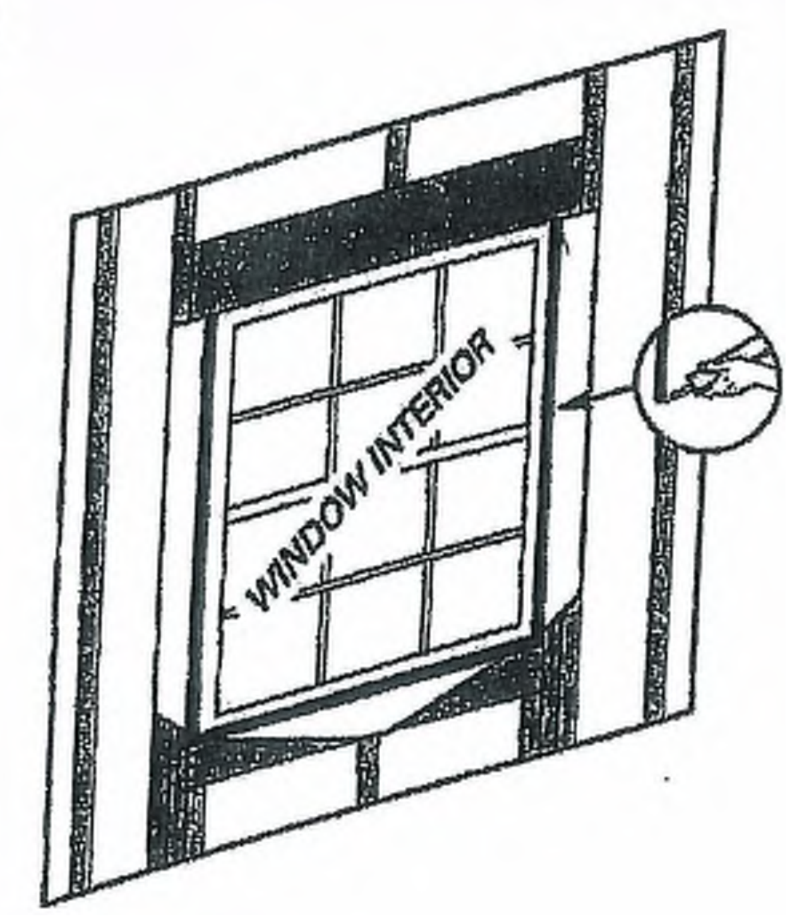
STEP 11

A. FLIP DOWN WEATHER-RESISTIVE BARRIER UPPER FLAP SO THAT IT LAYS FLAT ACROSS HEAD FLASHING.
B. TAPE ALONG ALL CUTS IN WEATHER-RESISTIVE BARRIER AND ACROSS WINDOW HEAD WITH APPROVED TAPE PER MANUFACTURER'S RECOMMENDATIONS.



STEP 12

CAULK (BACKER ROD, AS NECESSARY) AT REAR OF WINDOW/DOOR FRAME TO SEAL INSIDE OF ROUGH OPENING ACROSS BOTTOM AND A MINIMUM 12" TURN UP AT SIDES TO FORM A BACK DAM. IN ORDER TO AIR SEAL AROUND WINDOW OPENING, COMPLETELY CAULK AROUND BACK EDGE OF WINDOW PERIMETER.



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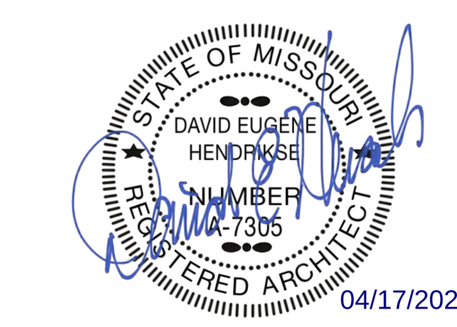

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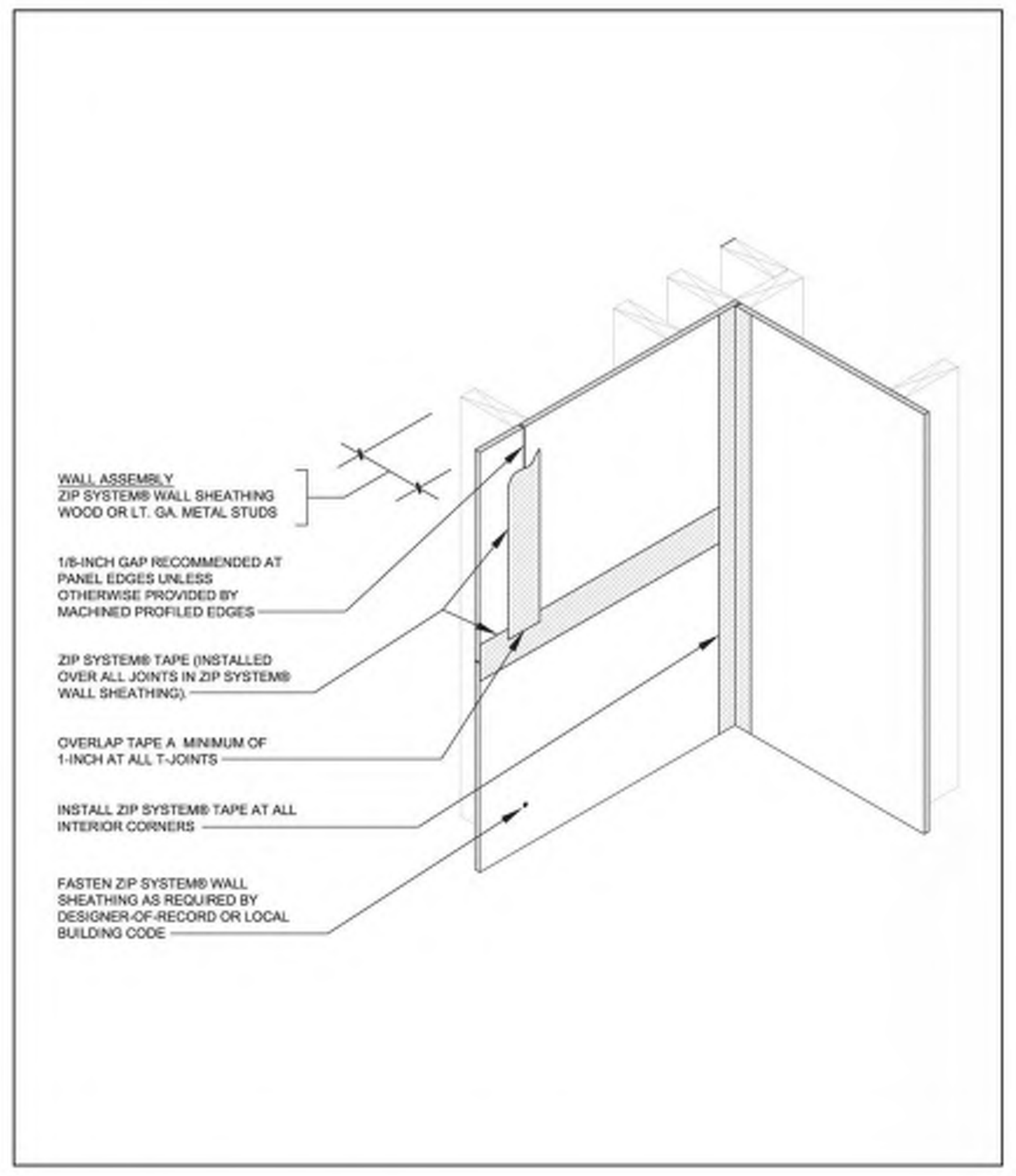
LEE'S SUMMIT, MO

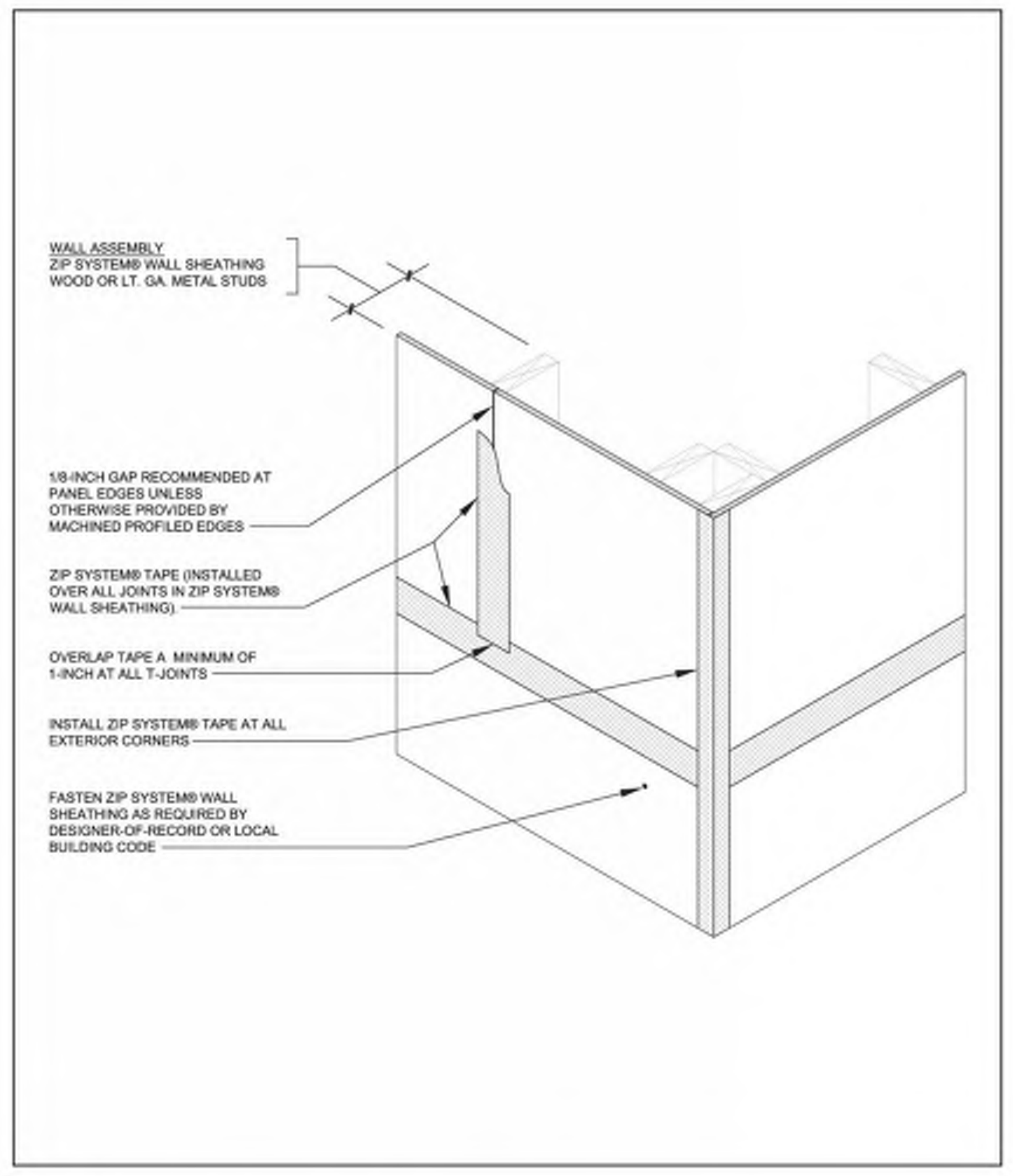
SHEET TITLE
GENERAL INFORMATION

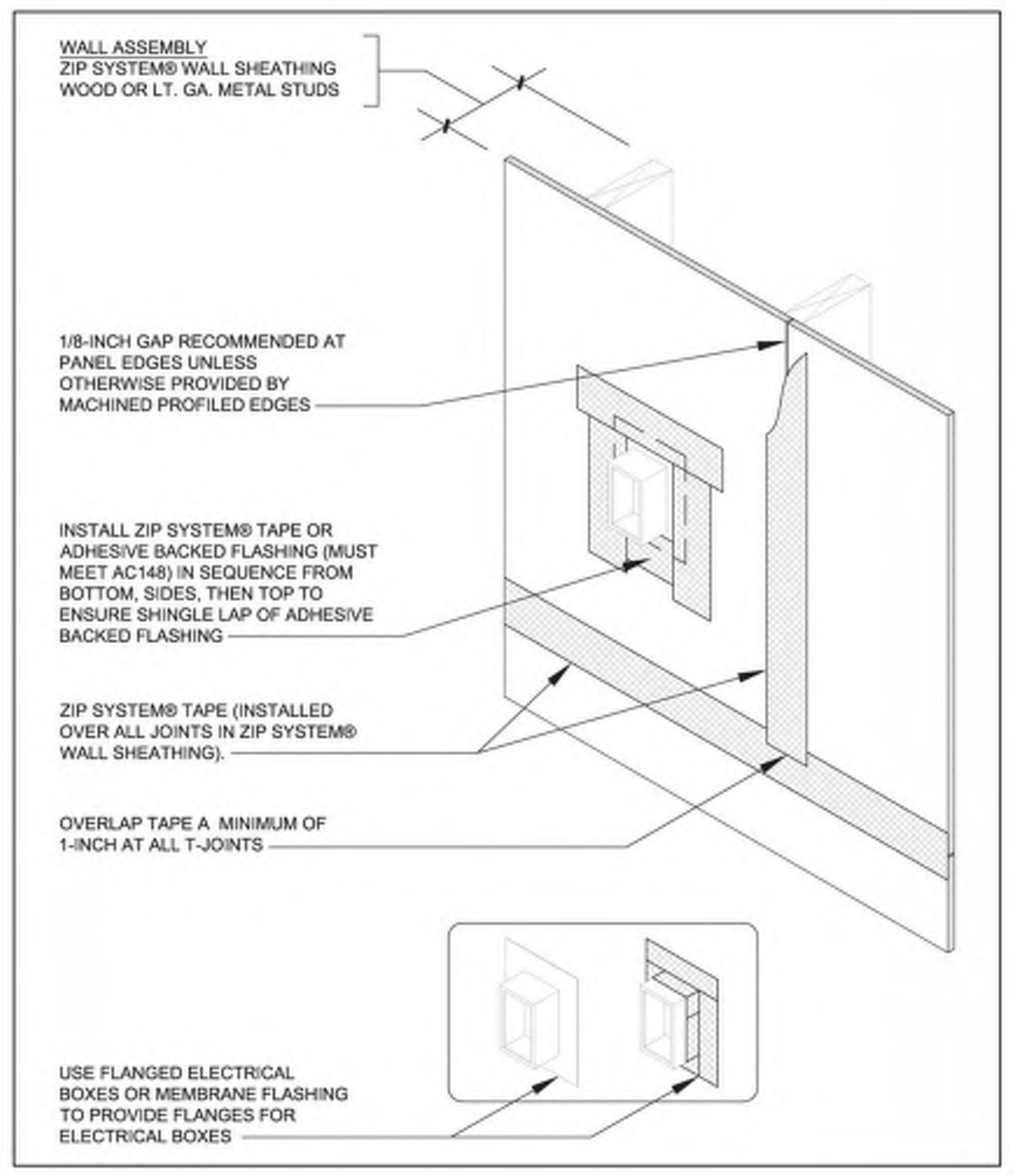
PROJECT NUMBER: 22023

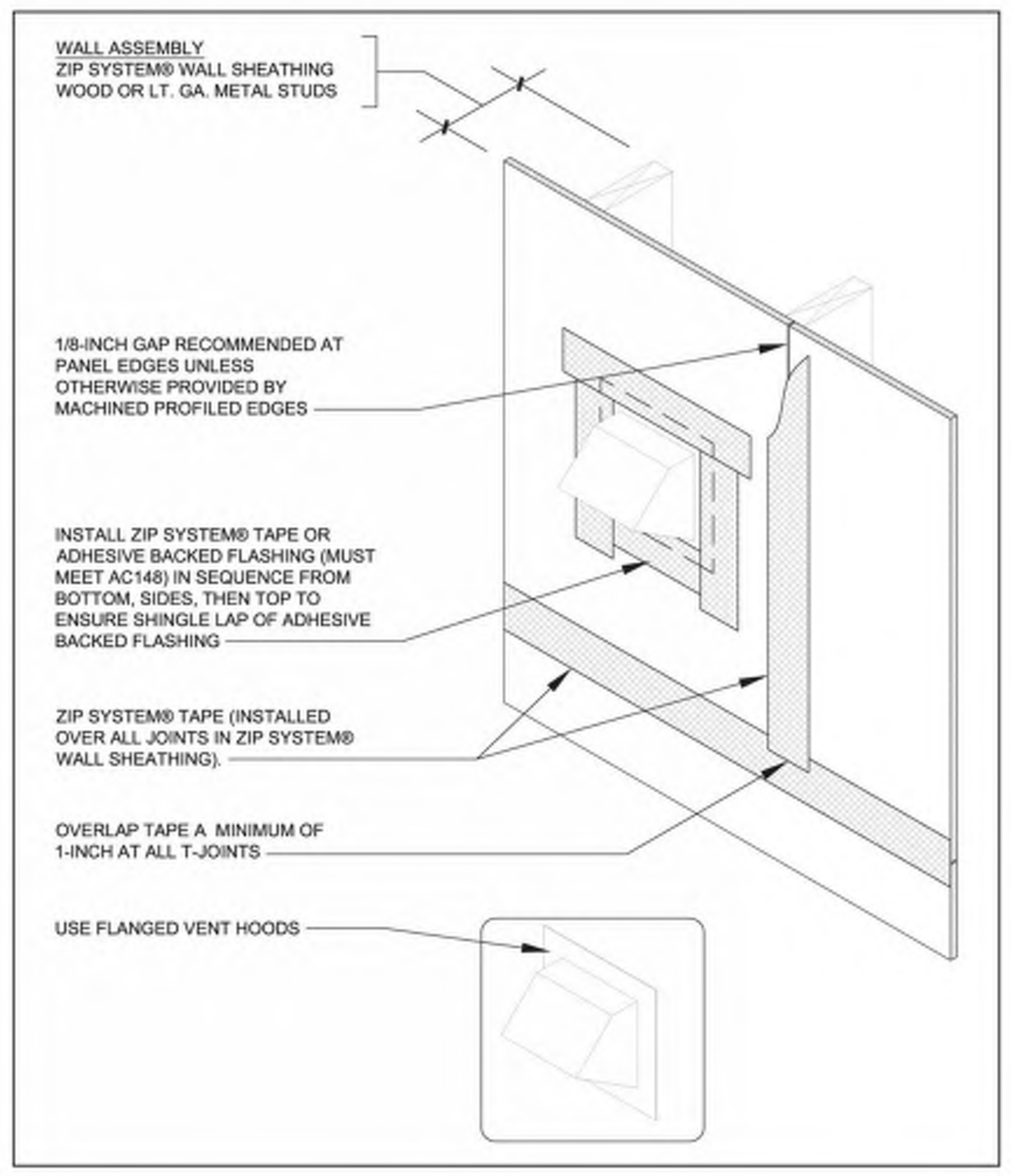
SHEET NUMBER:

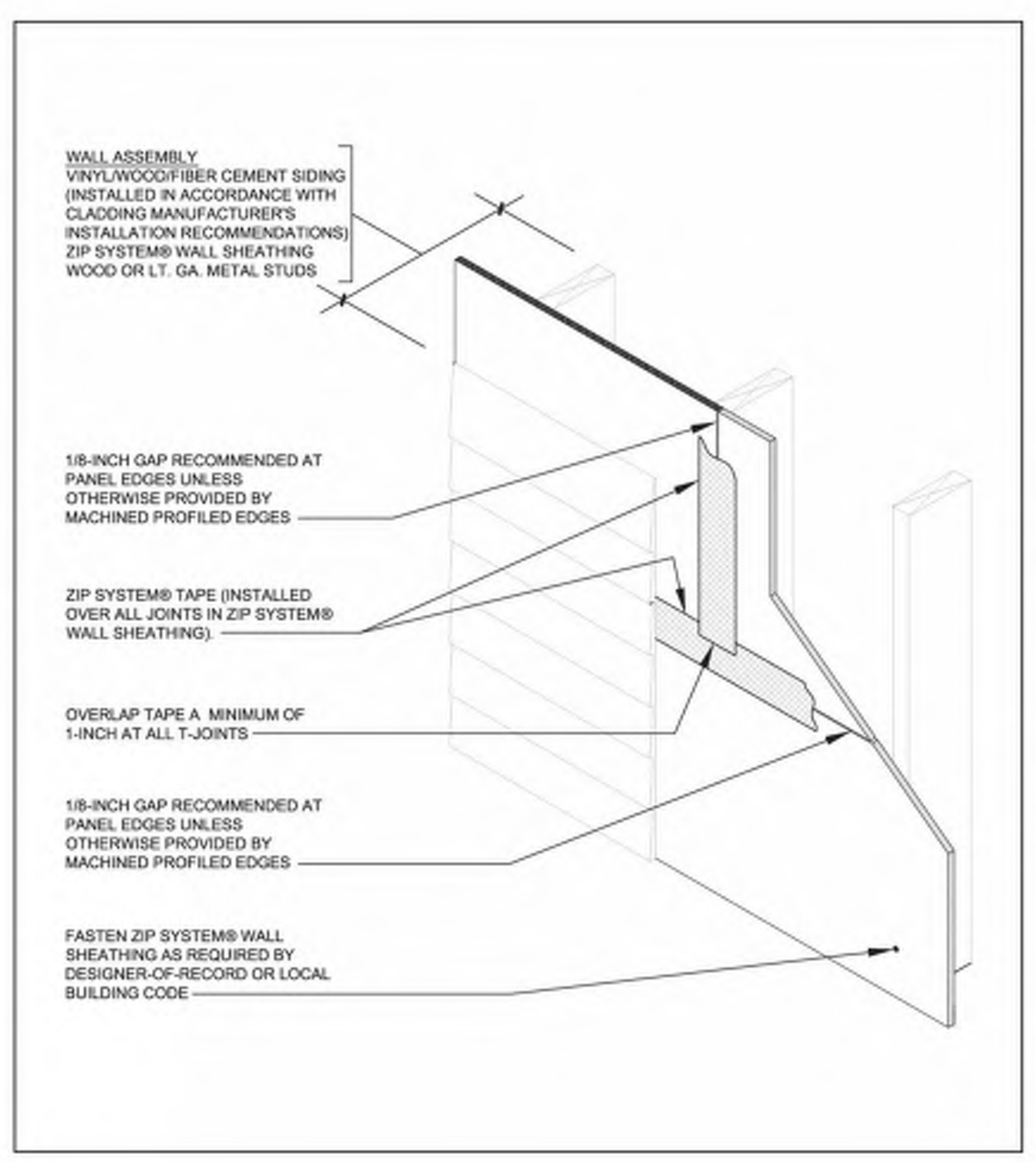
G-004

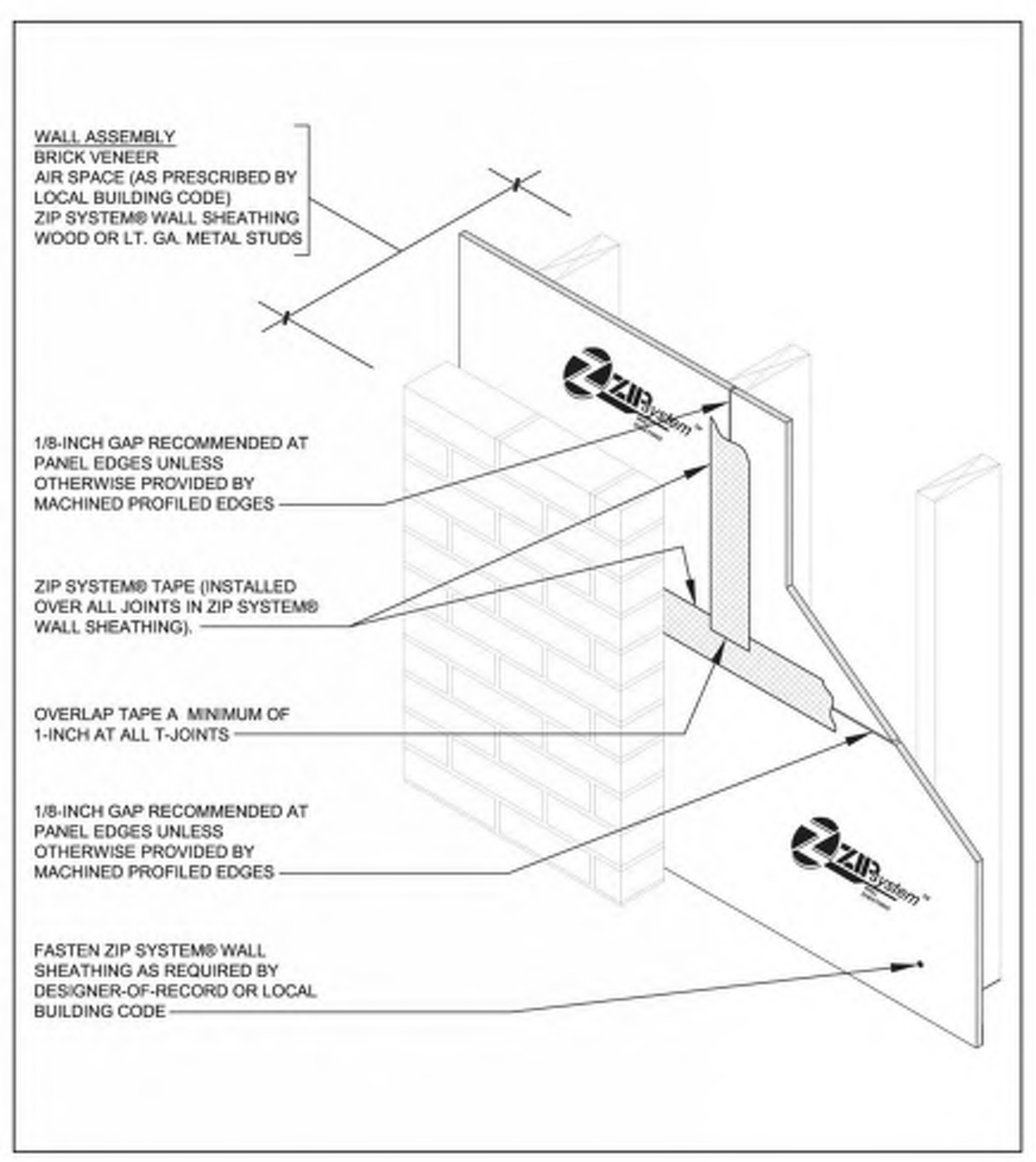












Brick Mould Windows (continued)

3. ZIP System tape may be used as pan flashing if installed in accordance with brick mould window installation details posted on zipsystem.com. Other adhesive-based flashing tapes (must meet ICC-ES Acceptance Criteria for Flashing Materials (AC148)) may be used as pan flashing if installed per ASTM 2112-07. Apply the flashing to cover the bottom of the opening, overhanging onto the sheathing by at least 2" and extending a minimum of 6" up each jamb.

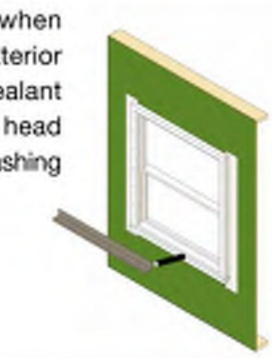
4. For vertical jambs, cut ZIP System tape or another adhesive-backed flashing tape (must meet ICC-ES Acceptance Criteria for Flashing Materials (AC148)) and apply to each of the window jambs. Ensure that they cover the entire inside of the rough opening as well as overlap onto the sheathing by at least 2". Flashing shall also extend above the rough opening, such that it will project 1" beyond the exterior trim of the window.

   Once the tape is in place, use the tape gun or roller to seal the flashing to the sheathing.

5. Apply sealant to jambs and header allowing for drainage at the sill in accordance with window manufacturer's installation instructions. When using ZIP System tape, use a butyl, polyurethane or silicone sealant. Do not use latex sealants with ZIP System tape. When using another flashing tape, follow the flashing manufac-turer's recommendations in selecting a sealant compatible with that flashing.

6. Install and level window per manufacturer's installation instructions.

7. Cut a piece of rigid head flashing so that when installed, it is flush with the edges of the exterior moulding of the window. Apply a bead of sealant to the back and bottom surface of the rigid head flashing. Use sealant recommended by the flashing manufacturer.



8. Secure the rigid head flashing to ZIP System wall sheathing.

9. Cut a length of ZIP System tape or another adhesive-backed flashing tape (must meet ICC-ES Acceptance Criteria for Flashing Materials (AC148)) and apply to the rigid head flashing, ensuring that the adhesive-backed flashing overlaps the jamb flashings.

   Once the tape is in place, use the tape gun or roller to seal the flashing to the sheathing.

10. From the interior, apply low-pressure polyurethane foam (for windows) between the rough opening and the window frame. (Caulk sealant compatible with the sill flashing may be used at the sill if the opening between the sill flashing and window is too narrow to allow the use of low-pressure polyurethane foam.)

    When using ZIP System tape, butyl, silicone or polyurethane sealants are acceptable. Do not use latex sealants with ZIP System tape. If using another flashing tape, follow the flashing manufacturer's recommendation in selecting a sealant compatible with that flashing.

Apply ZIP System tape after all ZIP System wall sheathing panels are fully fastened to wall-framing members. Only ZIP System tape should be used to seal the seams of ZIP System panels. Ensure that the panel surface is dry and free of sawdust and dirt prior to taping. **ZIP System tape is a contact tape that requires pressure for an adequate seal.**

Step 1. Tape all seams using ZIP System tape. Ensure that the tape is centered over the seam within +/- 1/2" to provide adequate coverage and that wrinkles in tape are minimal.

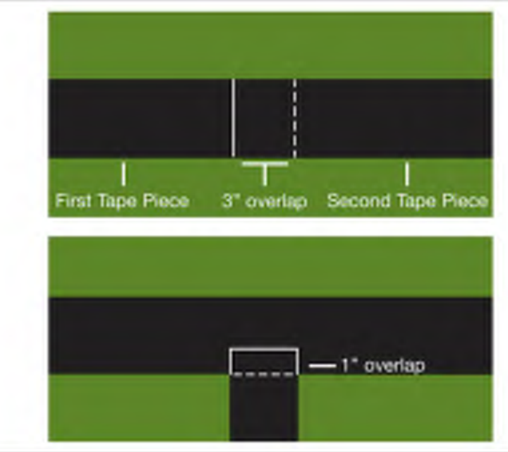
Use the ZIP System tape gun or roller to apply pressure to the tape and smooth out any wrinkles.

Step 2. Wherever tape splices occur at a horizontal or vertical seam, create an overlapping splice of at least 3".

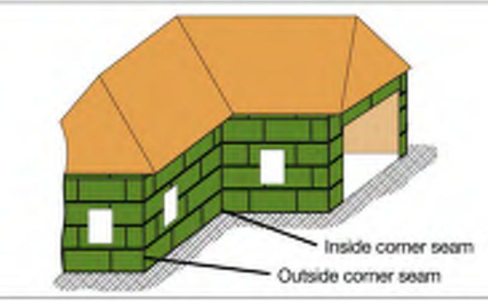
At T-joints, the tape pieces should overlap by at least 1". Apply moderate pressure onto the surface of the tape to ensure a secure bond between the panel and the tape.

Use the ZIP System tape gun or roller to apply pressure to the tape and smooth out any wrinkles.

Take special care to remove any voids and/or trapped air at splice areas and T-joints.

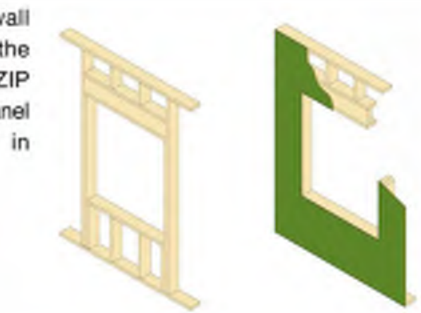


Step 3. Tape inside and outside corner seams.

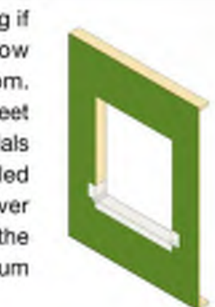


Flanged Windows

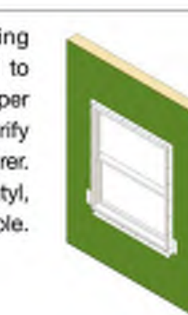
1. Fasten the ZIP System wall sheathing sheathing to the wood frame and install ZIP System tape to all wall panel seams, as de-tailed in sections 02 and 03.



2. ZIP System tape may be used as pan flashing if installed in accordance with flanged window installation details posted on zipsystem.com. Other adhesive-based flashing tapes (must meet ICC-ES Acceptance Criteria for Flashing Materials (AC148)) may be used as pan flashing if installed per ASTM 2112-07. Apply the flashing to cover the bottom of the opening, overhanging onto the sheathing by at least 2" and extending a minimum of 6" up each jamb.



3. Apply sealant around inside face of mounting flange. Sealant must be gapped at the sill to permit drainage. Install and level window per manufacturer's installation instructions. Verify sealant compatibility with window manufacturer. When using ZIP System tape as pan flashing, butyl, silicone or polyurethane sealants are acceptable. Do not use latex sealants.



4. Cut two pieces of ZIP System tape or another adhesive-backed flashing tape (must meet ICC-ES Acceptance Criteria for Flashing Materials (AC148)) and apply to each of the window jamb flanges, ensuring the jamb flashings overlap the sill flashing.

   Once the tape is in place, use the tape gun or roller to seal the flashing to the sheathing.

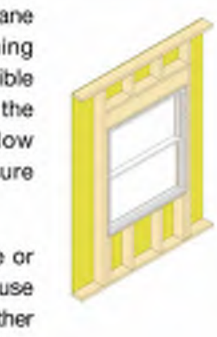
5. Cut a length of ZIP System tape or another adhesive-backed flashing tape (must meet ICC-ES Acceptance Criteria for Flashing Materials (AC148)) and apply to the header, ensuring that the flashing overlaps the jamb flashings.*

   Once the tape is in place, use the tape gun or roller to seal the flashing to the sheathing.

   *DO NOT tape bottom flange.

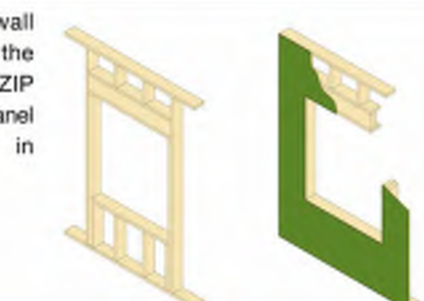
6. From the interior, apply low-pressure polyurethane foam (for windows) between the rough opening and the window frame. (Caulk sealant compatible with the sill flashing may be used at the sill if the opening between the sill flashing and window is too narrow to allow the use of low-pressure polyurethane foam.)

   When using ZIP System tape, butyl, silicone or polyurethane sealants are acceptable. Do not use latex sealants with ZIP System tape. If using another flashing tape, follow the flashing manufacturer's recommendation in selecting a sealant compatible with that flashing.

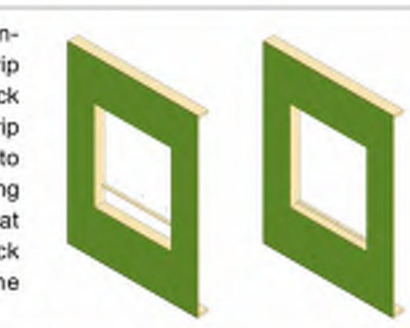


Brick Mould Windows

1. Fasten the ZIP System wall sheathing sheathing to the wood frame and install ZIP System tape to all wall panel seams, as de-tailed in sections 02 and 03.



2. If recommended by the win-dow manufacturer, cut a strip of wood to function as a back dam at the sill. The wood strip should have a length equal to the width of the rough opening and a height and width of at least 1/2". Position the block at the inside edge of the window frame.



THIS SHEET IS PROVIDED FOR REFERENCE ONLY. ALL INSTALLATION TO BE PER MANUFACTURER RECOMMENDATION

PRINTS ISSUED
04/17/2024 - CITY SUBMISSION

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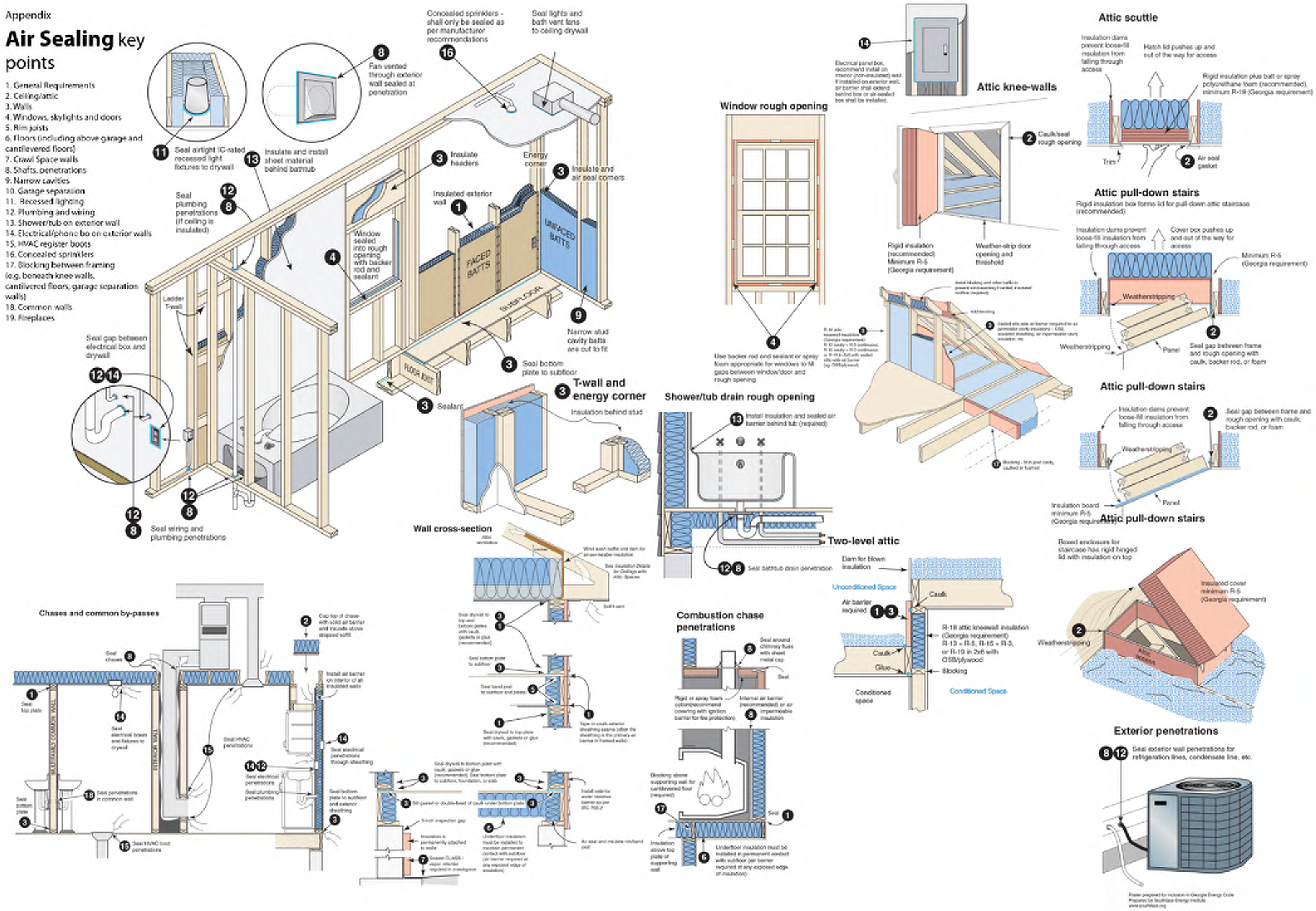
STATE OF MISSOURI
DAVID EUGENE HENDRIKSE
NUMBER A-7305
REGISTERED ARCHITECT
04/17/2024

HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
GENERAL INFORMATION

PROJECT NUMBER: 22023

SHEET NUMBER:
G-005


Appendix
Air Sealing key points
1. General Requirements
2. Ceiling/attic
3. Walls
4. Windows, skylights and doors
5. Rim joists
6. Floors (including above garage and cantilevered floors)
7. Crawl Space walls
8. Shafts, penetrations
9. Narrow cavities
10. Garage separation
11. Recessed lighting
12. Plumbing and wiring
13. Shower/tub on exterior wall
14. Electrical/phone bo on exterior walls
15. HVAC register boots
16. Concealed sprinklers
17. Blocking between framing (e.g. beneath knee walls, cantilevered floors, garage separation walls)
18. Common walls
19. Fireplaces
Concealed sprinklers - shall only be sealed as per manufacturer recommendations
Seal lights and bath vent fans to ceiling drywall
Fan vented through exterior wall sealed at penetration
Seal airtight IC-rated recessed light fixtures to drywall
Insulate and install sheet material behind bathtub
Insulate headers
Energy corner
Insulate and air seal corners
Insulated exterior wall
Window sealed into rough opening with backer rod and sealant
Narrow stud cavity batts are cut to fit
Seal bottom plate to subfloor
Sealant
Seal gap between electrical box and drywall
Seal plumbing penetrations (if ceiling is insulated)
Seal wiring and plumbing penetrations
T-wall and energy corner
Insulation behind stud
Wall cross-section
Window rough opening
Use backer rod and sealant or spray foam appropriate for windows to fill gaps between window/door and rough opening
Shower/tub drain rough opening
Install insulation and sealed air barrier behind tub (required)
Seal bathtub drain penetration
Attic knee-walls
Caulk/seal rough opening
Rigid insulation (recommended) Minimum R-5 (Georgia requirement)
Weather-strip door opening and threshold
Attic scuttle
Hatch lid pushes up and out of the way for access
Rigid insulation plus batt or spray polyurethane foam (recommended), minimum R-19 (Georgia requirement)
Air seal gasket
Attic pull-down stairs
Rigid insulation box forms lid for pull-down attic staircase (recommended)
Weatherstripping
Seal gap between frame and rough opening with caulk, backer rod, or foam
Two-level attic
Unconditioned Space
Conditioned Space
Combustion chase penetrations
Chases and common by-passes
Exterior penetrations
Seal exterior wall penetrations for refrigeration lines, condensate line, etc.

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HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

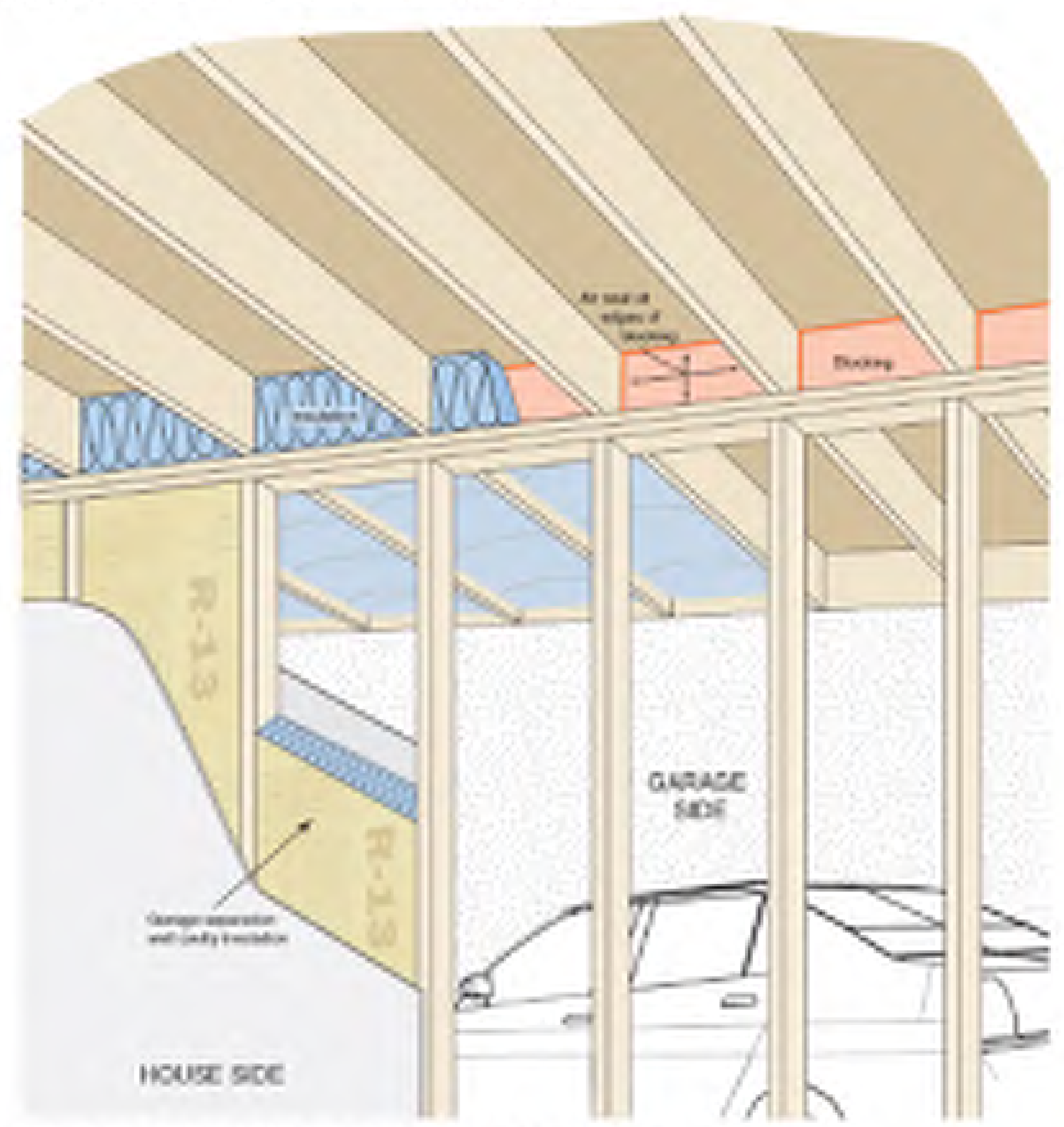
SHEET TITLE
GENERAL INFORMATION

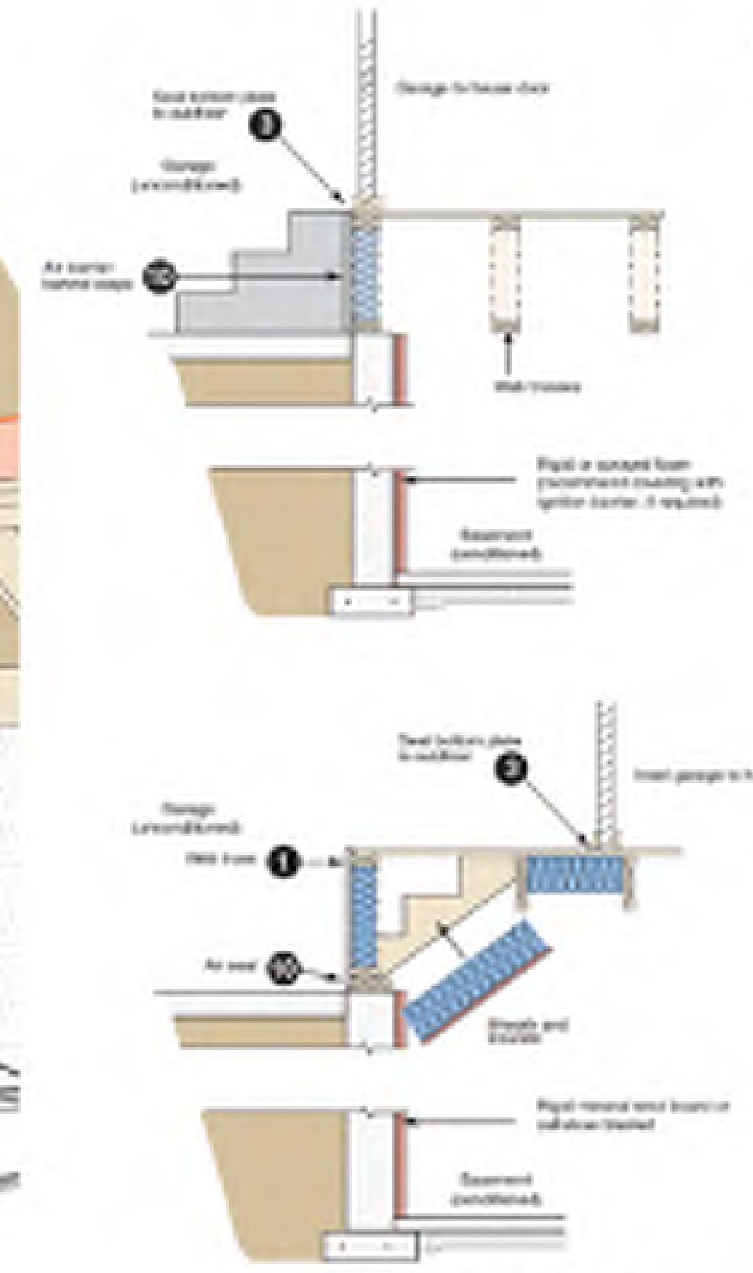
PROJECT NUMBER: 22023

SHEET NUMBER:
G-006

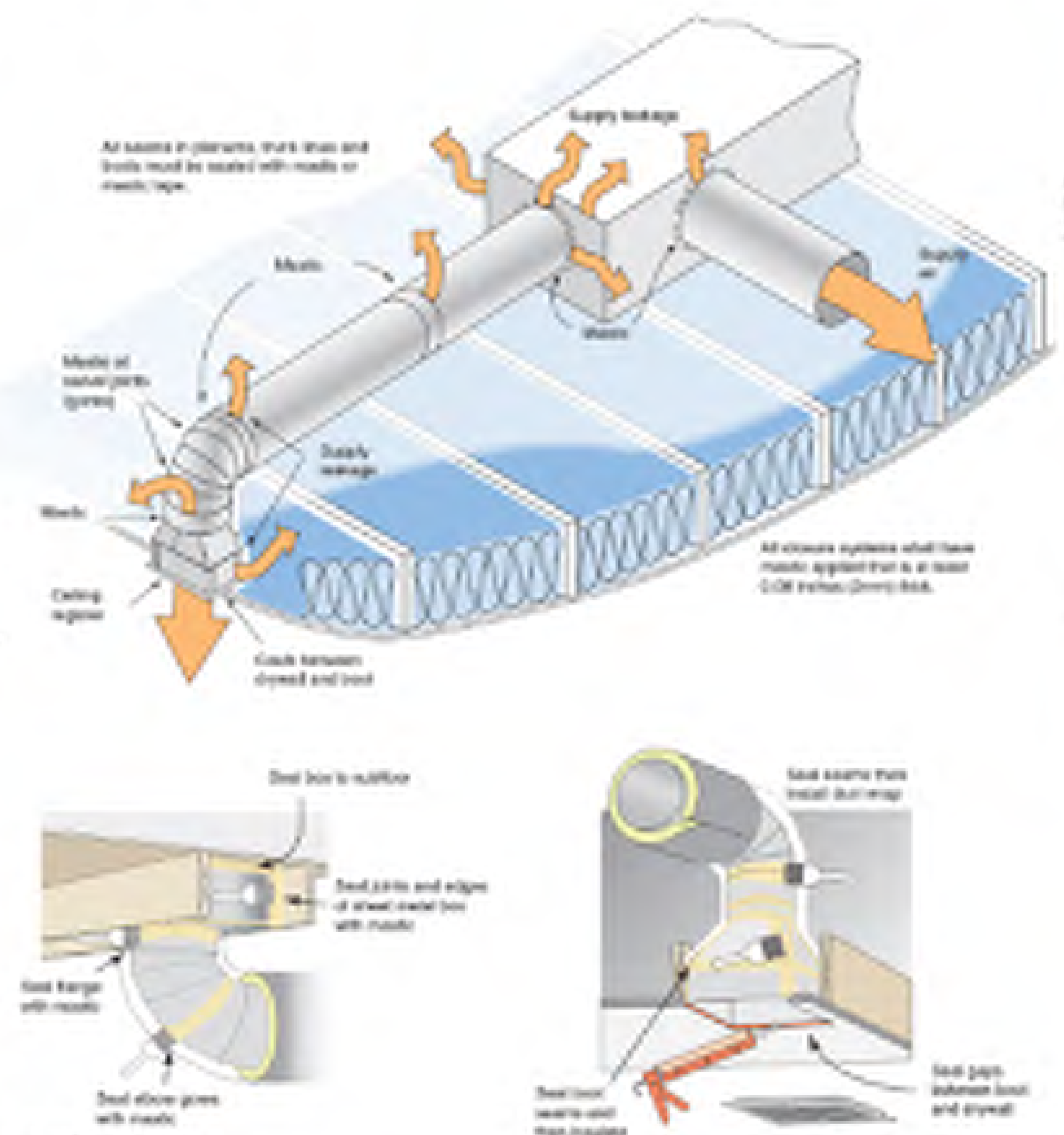
Garage blocking and sealing key points

Blocking, air sealing and insulation required above garage separation wall

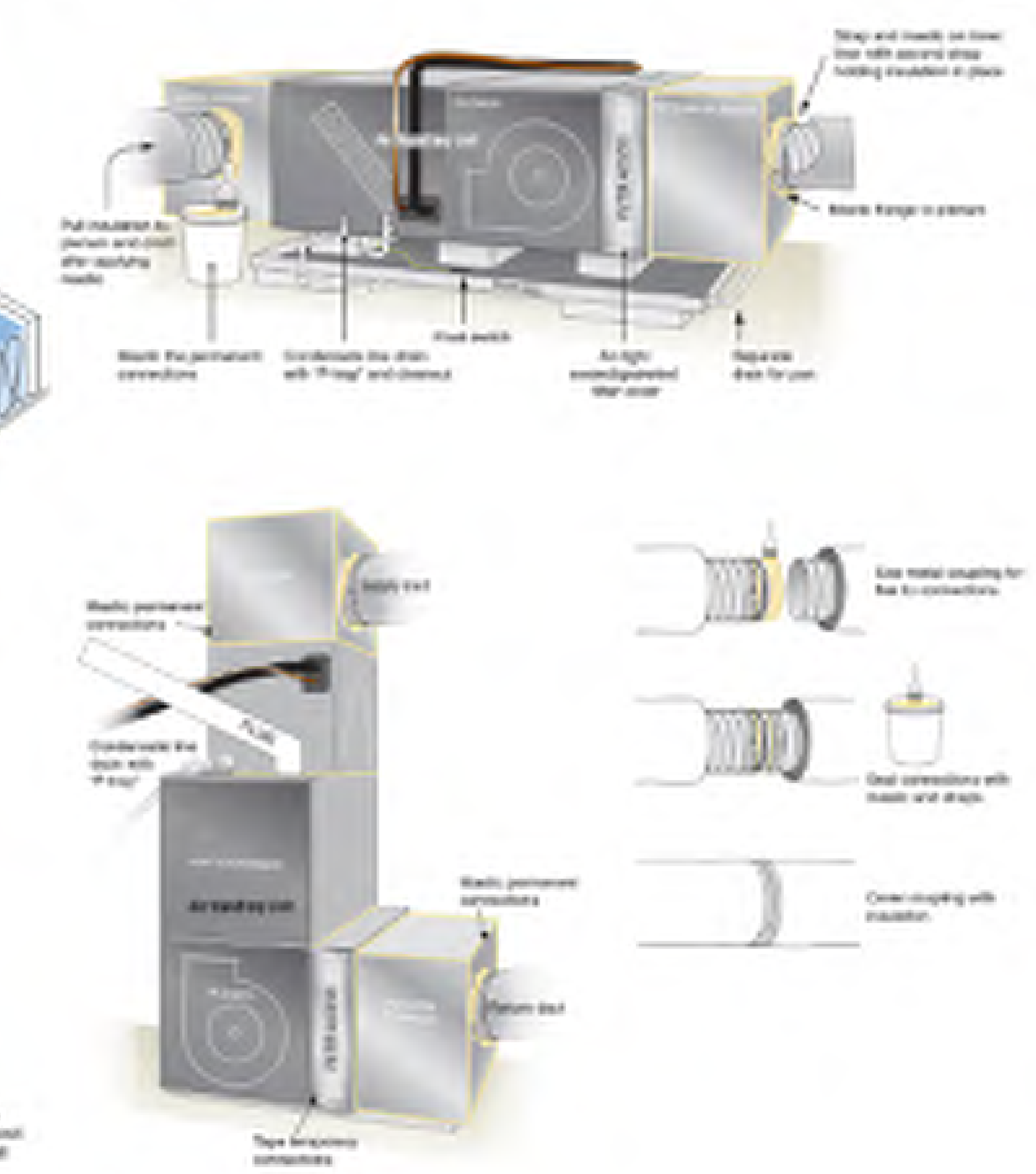




Duct Sealing key points

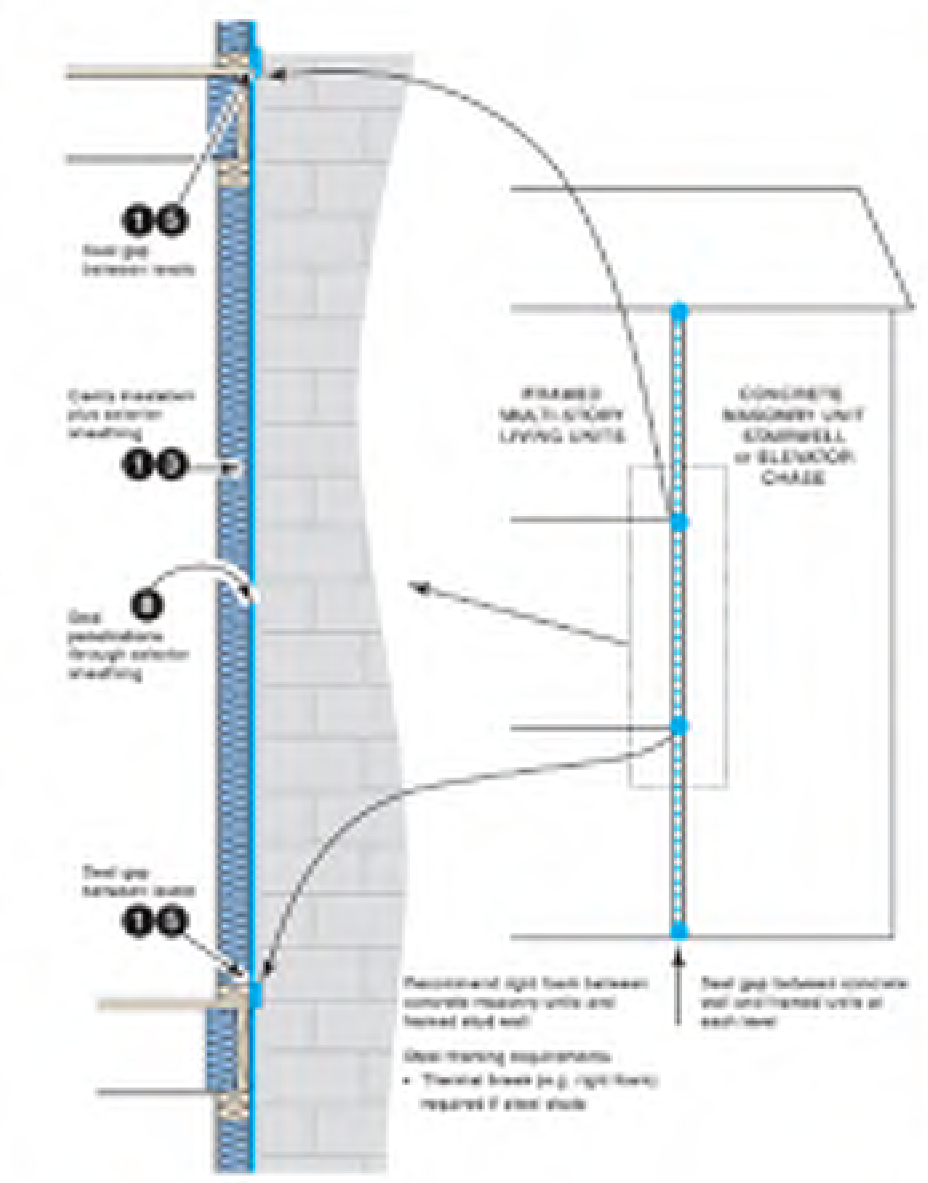


Air Handler Sealing key points



Air sealing key points *continued*

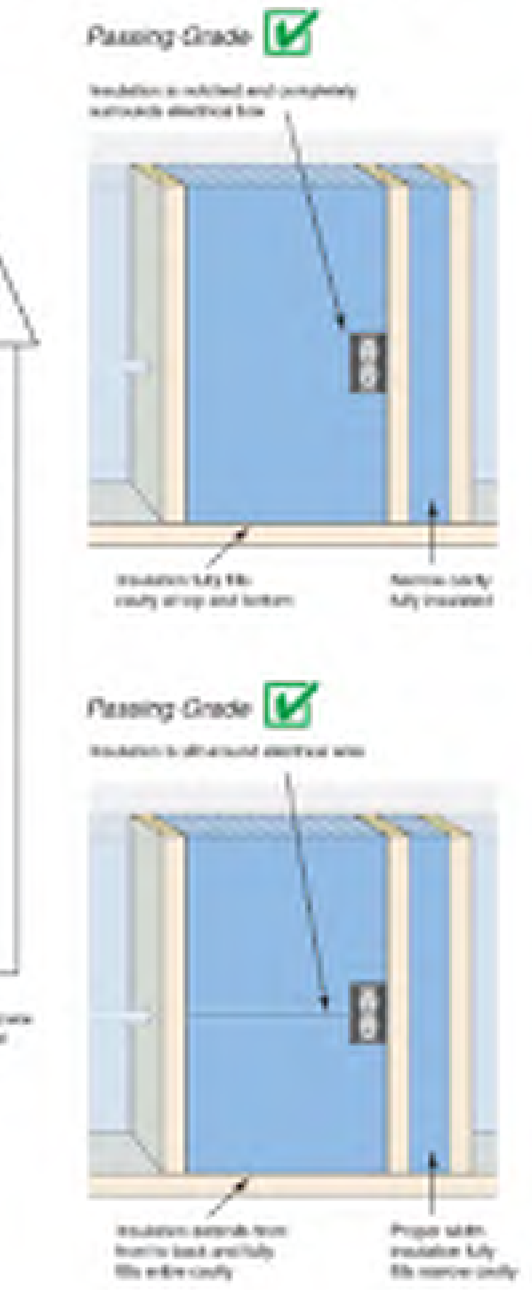
Multifamily



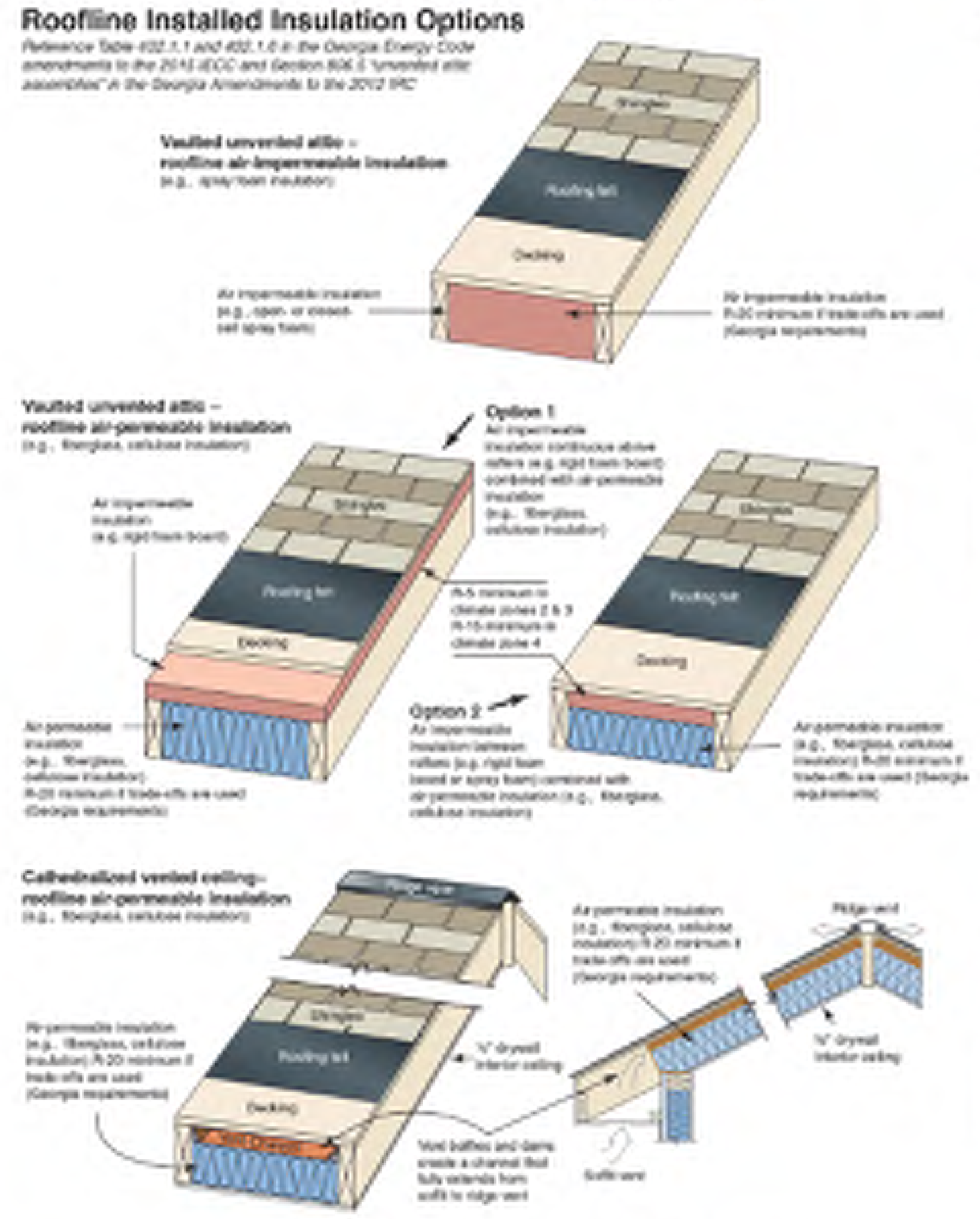
Wall Insulation key points

Passing Grade ✓

Passing Grade ✓

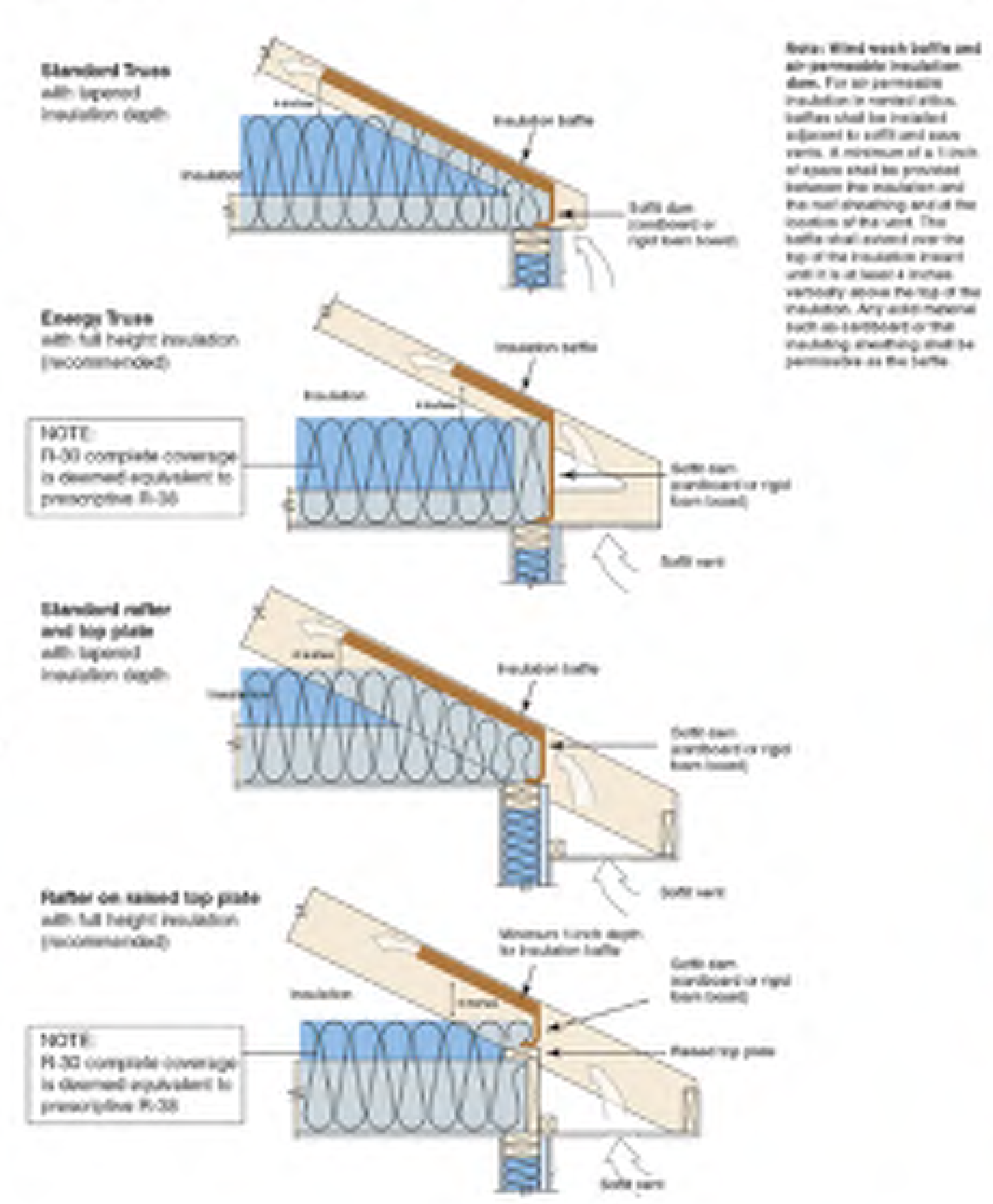


Roofline Installed Insulation Options



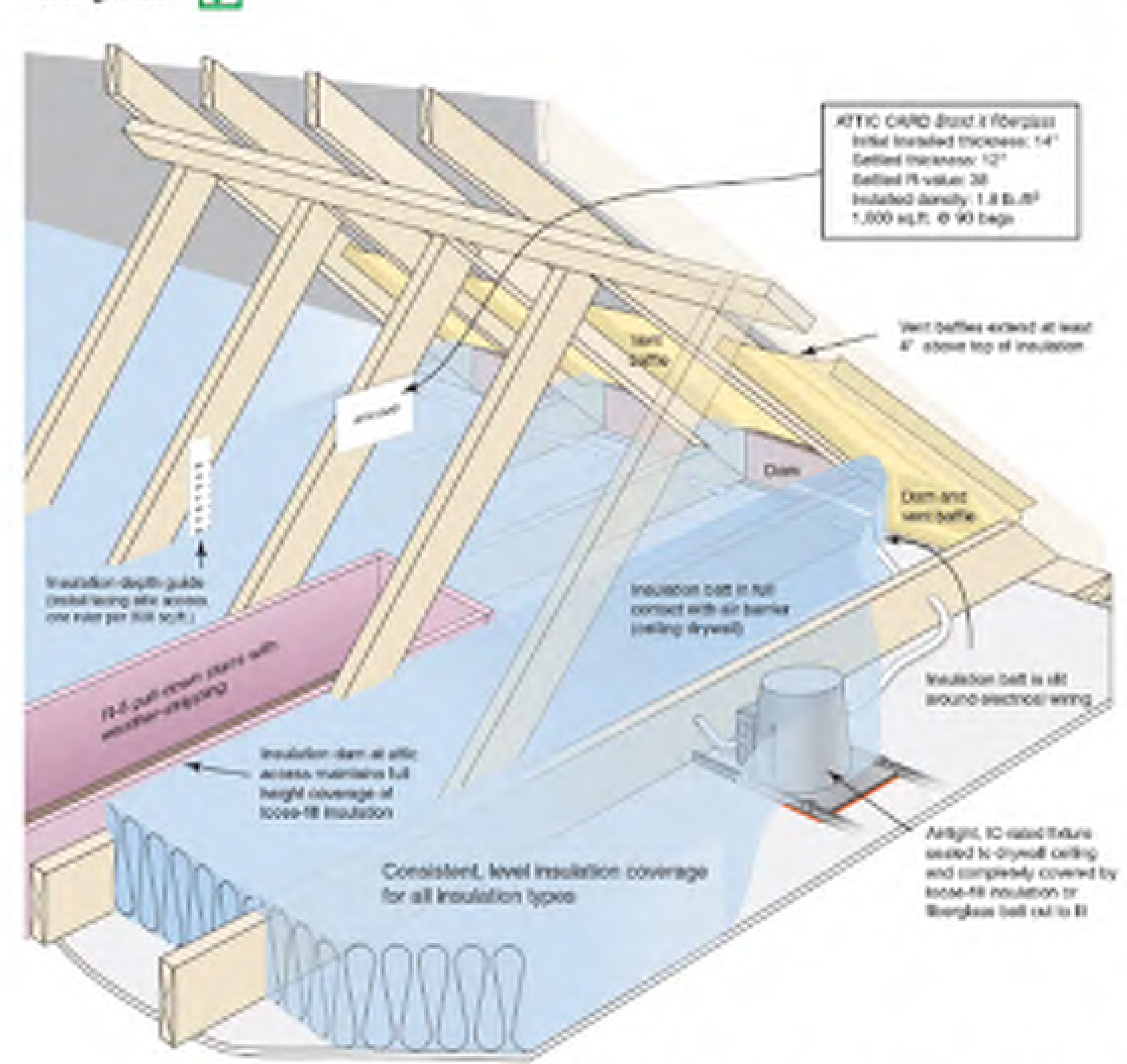
Insulation Details for Ceilings with Attic spaces

Rafter and Truss



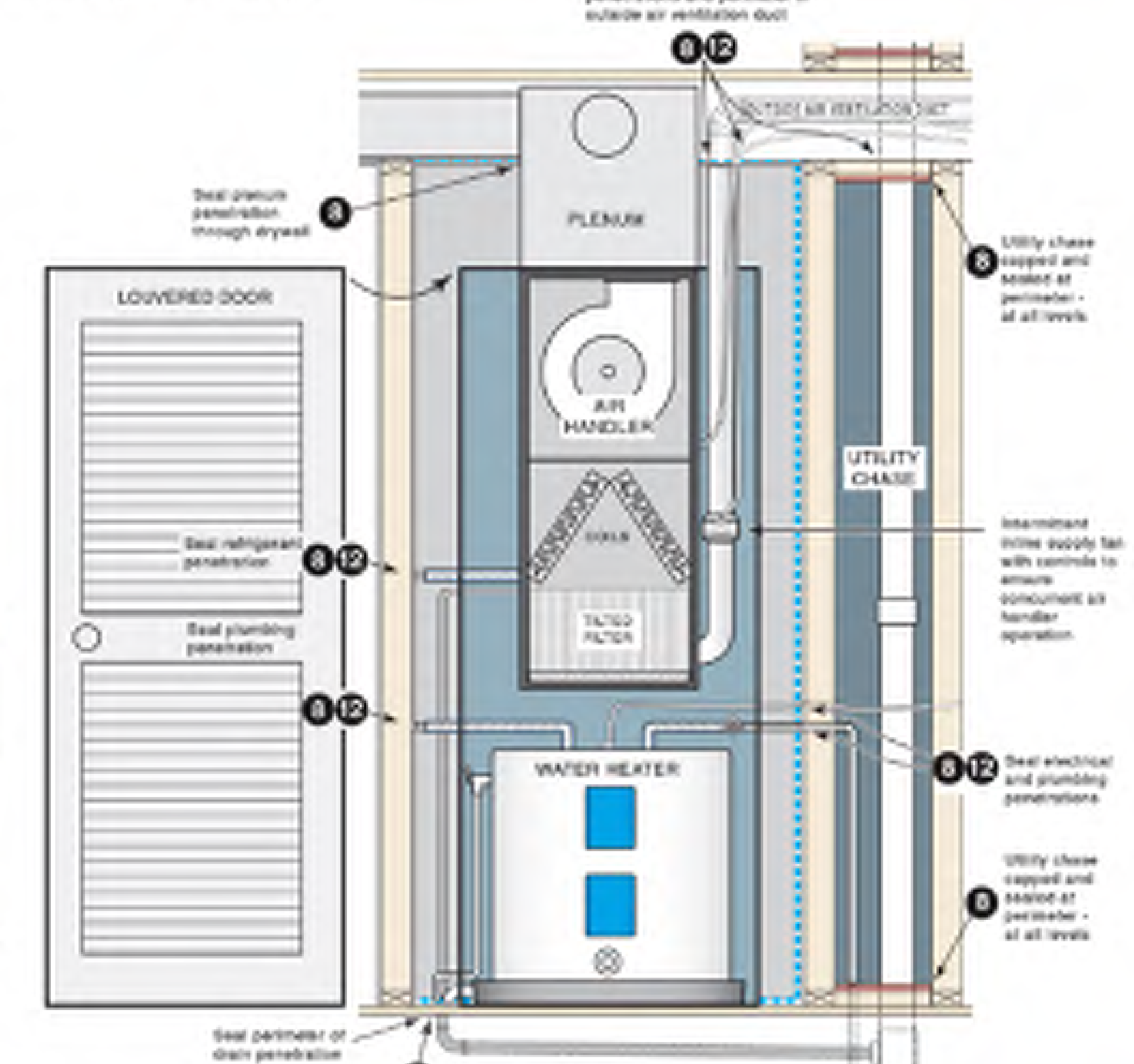
Ceiling Insulation key points

Passing Grade ✓



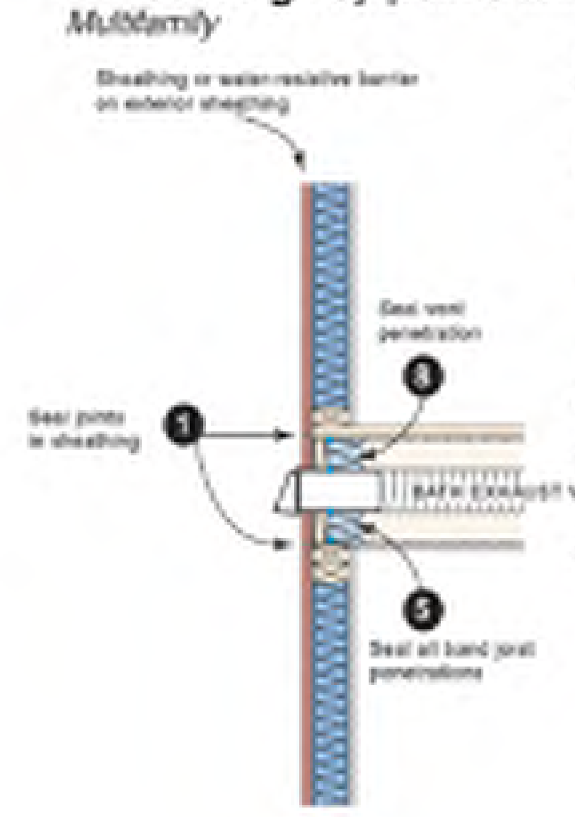
Air sealing key points *continued*

Multifamily Mechanical Closet



Air sealing key points *continued*

Multifamily



Multifamily Air-sealing Details

- Cap and seal all chases including chases for grouped utility lines and radon vents

Seal penetrations in mechanical closet including penetrations for the:

- supply plenum
- outside air ventilation
- refrigerant line
- plumbing
- electrical
- gas fuel

- Seal band area at exterior sheathing side and all penetrations through band
- UL-compliant air sealing at drywall finishing for any wall adjacent to stairwell or elevator. Air seal this gap at every change in floor level
- Seal miscellaneous clustered penetrations through building envelope (e.g. refrigerant lines)

Wall and ceiling insulation that makes up portions of the building thermal envelope shall be installed to Passing Grade quality.

Two criteria affect installed insulation grading: **voids/gaps** (in which no insulation is present in a portion of the overall insulated surface) and **compression/incomplete fill** (in which the insulation does not fully fill out or extend to the desired depth).

Voids/Gaps

- Voids or gaps in the insulation are < 1% of overall component surface area (only occasional and very small gaps allowed for Passing Grade)

Compression/Incomplete Fill

- Compression/Incomplete Fill for both *air permeable insulation* (e.g., fiberglass, cellulose) and *air impermeable insulation* (e.g., spray polyurethane foam) must be less than 1 inch in depth or less than 30% of the intended depth, whichever is more stringent. The allowable area of compression/incomplete fill must be less than 2% of the overall insulated surface to achieve a Passing Grade.
- Any compression/incomplete fill with a **depth** greater than the above specifications (up to 1" or 30% of the intended depth, whichever is more stringent) shall not achieve a Passing Grade.

Additional Wall Insulation Requirements

- All vertical air permeable insulation shall be installed in substantial contact with an air barrier on all six (6) sides.
  Exception: Unfinished basements, rim/band joist cavity insulation and fireplaces (insulation shall be restrained to stay in place).
  For unfinished basements, air permeable insulation and associated framing in a framed cavity wall shall be installed less than ¼" from the basement wall surface.
- Attic knee wall details – Attic knee walls shall be insulated to a total R-value of at least R-18 through any combination of cavity and continuous insulation. Air permeable insulation shall be installed with a fully sealed attic-side air barrier (e.g., OSB with seams caulked, rigid insulation with joints taped, etc.). Attic knee walls with air impermeable insulation shall not require an additional attic-side air barrier.

Underfloor insulation that makes up portions of the building thermal envelope shall be installed to Passing Grade quality.

Two criteria affect installed insulation grading: **voids/ gaps** (in which no insulation is present in a portion of the overall insulated surface) and **compression/incomplete fill** (in which the insulation does not fully fill out or extend to the desired depth).

Voids/Gaps

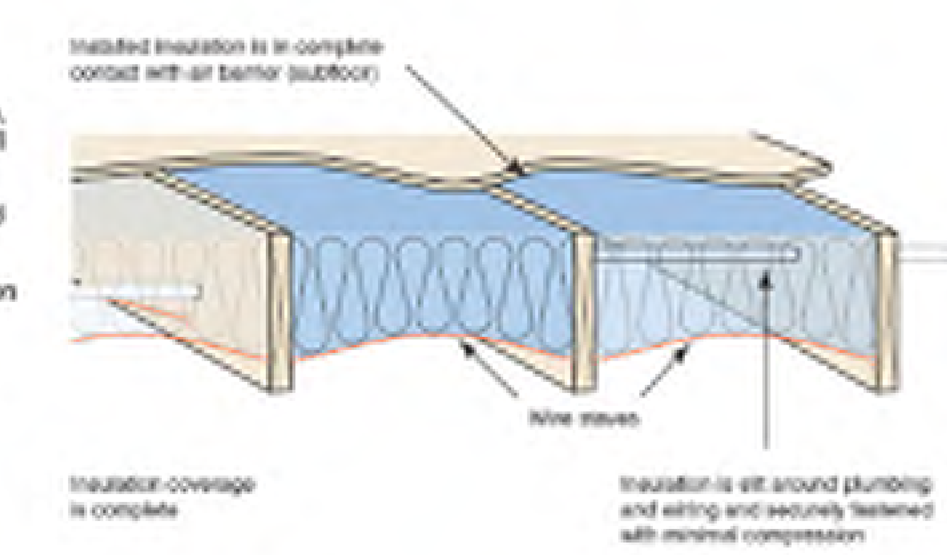
- Voids or gaps in the insulation are minimal for Passing Grade (< 2% of overall component surface area)

Compression/Incomplete Fill

- Compression/Incomplete Fill for both *air permeable insulation* (e.g., fiberglass, cellulose) and *air impermeable insulation* (e.g., spray polyurethane foam) must be less than 1 inch in depth or less than 30% of the intended depth, whichever is more stringent. The allowable area of compression/incomplete fill must be less than 10% of the overall insulated surface to achieve a Passing Grade.
- Any compression/incomplete fill with a **depth** greater than the above specifications (up to 1" or 30% of the intended depth, whichever is more stringent) shall not achieve a Passing Grade.
- Air-permeable underfloor insulation shall be permanently installed against the subfloor decking. Adequate insulation supports (e.g., wire staves) for air permeable insulation shall be installed at least every 18-24".
  Exception: The floor framing-cavity insulation shall be permitted to be in contact with the topside of sheathing or continuous insulation installed on the bottom side of floor framing where combined with insulation that meets or exceeds the minimum wood frame wall R-value and that extends from the bottom to the top of all perimeter floor framing members.

Floor Insulation key points

Passing Grade ✓



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04/17/2024

HOME2 SUITES BY HILTON

LEE'S SUMMIT, MO

SHEET TITLE
GENERAL INFORMATION

PROJECT NUMBER: 22023

SHEET NUMBER:

G-007

ENERGY CONSERVATION REQUIREMENTS

CLIMATE ZONE: 4A CONST. TYPE: V-A

PROJECT COMPLYING WITH LEE'S SUMMIT'S BUILDING CODE AND ADOPTED ENERGY CONSERVATION CODE
PROJECT COMPLYING WITH HILTON'S SUSTAINABILITY BRAND STANDARDS

LEE'S SUMMIT CODE ARTICLE VIII, SECTION 7-803

WALL ASSEMBLIES AS PART OF BLDG ENVELOPE:	R-11
FLOOR ASSEMBLIES AS PART OF BLDG ENVELOPE:	R-19
EXCEPTION: CONCRETE FLOORS IN CONCTACT WITH THE EARTH NEED NOT BE INSULATED	
ROOF ASSEMBLIES AS PART OF BLDG ENVELOPE:	R-19
CEILINGS AS PART OF BLDG ENVELOPE:	R-30

HILTON BEST PRACTICES: SUSTAINABILITY BRAND STANDARDS

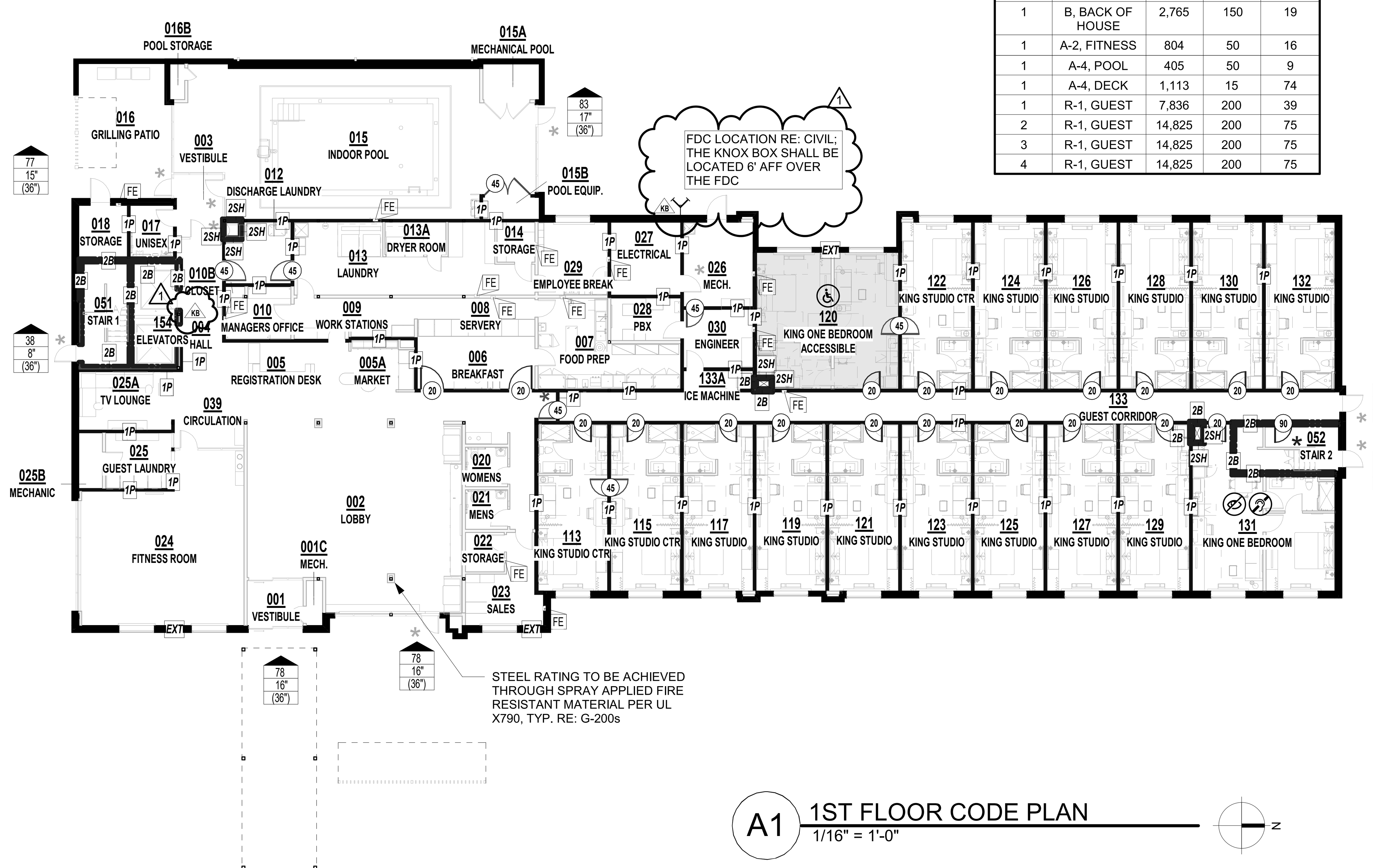
2501.02.H:	DROUGHT RESISTANT PLANTS/TURF
2501.02.P:	UNDERGROUND IRRIGATION SYSTEM
2514.04.B.5:	ALL PAINTS MUST BE LOW VOC (LESS THAN 50 VOC GRAMS/LITER) & LOW ODOR
2514.06.D.5:	ASHRAE STANDARD 90.1, UNIT EFFICENCIES
2514.08.J.1:	LED LIGHTING
2514.08.K.1:	ASHRAE STANDARD 90.1, POWER DENSITY & LIGHTING EFFICIENCY
2514.08.O:	MOTION-SENSORED LIGHT FIXTURES (BOH)
2514.11.B.2:	PROBLEMATIC MATERIALS: COMPOSITE PANELS
2515.01.B.3.a:	ENDANGERED WOOD SPECIES ARE NOT PERMITTED
2512.04.G.1:	WATER CLOSET, 1.6 GALLONS/FLUSH, 1.28 GALLONS/FLUSH, OR DUAL-FLUSH
2501.06.K:	EV CHARGING STATIONS
725.01:	LIGHTSTAY PLATFORM
2508.01.P.9:	FITNESS CENTER: A PLUMBED WATER BOTTLE FILLER MUST BE PROVIDED
2509.03.D:	WATER BOTTLE FILLER: MUST BE PROVIDED IN A FIRST FLOOR PUBLIC AREA
2513.09.C.7:	THE TRASH ENCLOSURE MUST BE SIZED TO INCLUDE A COMMERCIAL RECYCLING CONTAINER
2501.04.H.1.b:	ROOF: ENERGY STAR OR EQUIVALENT, SOLAR REFLECTIVE INDEX SRI 78 OR BETTER
2509.02.A.12.f:	PROVIDE TRASH AND RECYCLING RECEPTACLES AT ENTRANCE TO ELEVATORS/LIFTS.
2510.07.C.2.f:	IN-ROOM OCCUPANCY BASAED ENERGY MANAGEMENT SOLUTION KEY READER HVAC CONTROL SYSTEMS ARE NOT ALLOWED
2510.10.D.3:	ALL APPLIANCES (EXCEPT MICROWAVES) MUST BE ENERGY STAR RATED.
2501.05.P:	TRASH, RECYCLING AND ASH RECEPTACLES MUST BE PROVIDED AT THE MAIN ENTRANCE.

CODE PLAN GENERAL NOTES:

1. FIRE EXTINGUISHERS SHALL BE LOCATED SO THAT THE MAXIMUM TRAVEL DISTANCE SHALL NOT EXCEED 75 FEET. GENERAL CONTRACTOR TO PROVIDE SEMI-RECESSED FIRE EXTINGUISHER CABINETS WITH FIRE EXTINGUISHERS THROUGHOUT AT ACCESSIBLE HEIGHT.
2. SIGNS IDENTIFYING FIRE PROTECTION EQUIPMENT, CONTROLS FOR AIR CONDITIONING SYSTEMS, SPRINKLER RISERS AND VALVES, OR OTHER FIRE DETECTION, SUPPRESSION OR CONTROL ELEMENTS SHALL BE IDENTIFIED FOR THE USE OF THE FIRE DEPARTMENT PER 2018 IBC. SIGNAGE SHALL ALSO MEET 2018 IFC REQUIREMENTS FOR HEIGHT AND LETTERING. GC TO COORDINATE WITH AUTHORITY HAVING JURISDICTION ON ALL SIGNAGE.
3. KNOX BOX QUANTITY AND LOCATION TO BE COORDINATED BY THE GENERAL CONTRACTOR WITH AUTHORITY HAVING JURISDICTION.
4. ANNUNCIATOR PANEL AND FACP QUANTITY AND LOCATION TO BE COORDINATED BY THE GENERAL CONTRACTOR WITH AUTHORITY HAVING JURISDICTION PRIOR TO INSTALL.
5. ALL DIMENSIONS ARE APPROXIMATE ON CODE PLAN. ACTUAL ARCHITECTURAL DIMENSIONS PER ARCHITECTURAL AND STRUCTURAL PLAN.

OCCUPANCY LOADS

LEVEL	OCCUPANCY TYPE	AREA	LOAD FACTOR	MAX. OCC.
1	A-2, LOBBY	2,970	15	198
1	B, BACK OF HOUSE	2,765	150	19
1	A-2, FITNESS	804	50	16
1	A-4, POOL	405	50	9
1	A-4, DECK	1,113	15	74
1	R-1, GUEST	7,836	200	39
2	R-1, GUEST	14,825	200	75
3	R-1, GUEST	14,825	200	75
4	R-1, GUEST	14,825	200	75



A1 1ST FLOOR CODE PLAN
1/16" = 1'-0"

CODE REVIEW

PROJECT NAME:	HOME2 SUITES BY HILTON
PROJECT LOCATION:	LEE'S SUMMIT, MO
CODE:	2018 IBC
CODE REVIEW COMPLETED BY:	A.J. DOLPH

CHAPTER THREE

SECTION 302 OCCUPANCY:	R-1, HOTEL TRANSIENT(UNITS) A-2, UNCONCENTRATED (LOBBY) A-4, SWIMMING POOL B, BUSINESS (BOH)

CHAPTER FOUR

402 COVERED MALL BUILDINGS:	N/A	416 FLAMMABLE FINISHES:	N/A
403 HIGH RISE BUILDINGS:	N/A	417 DRYING ROOMS:	N/A
404 ATRIUMS:	N/A	418 ORGANIC COATINGS:	N/A
405 UNDERGROUND BUILDINGS:	N/A	419 LIV/WORK UNITS:	N/A
407 GROUP I-2:	N/A	421 HYDROGEN FUEL GAS ROOMS:	N/A
408 GROUP I-3:	N/A	422 AMBULATORY CARE FACILITY:	N/A
409 MOTION PICTURE PROJECTION:	N/A	423 STORM SHELTERS:	N/A
410 STAGES AND PLATFORMS:	N/A	424 CHILDREN'S PLAY STRUCTURE:	N/A
411 SPECIAL AMUSEMENT BUILDINGS:	N/A	425 HYPERBARIC FACILITY:	N/A
412 AIRCRAFT RELATED OCCUP:	N/A	426 COMBUSTIBLE DUSTS & GRAINS:	N/A
413 COMBUSTIBLE STORAGE:	N/A	427 MEDICAL GAS SYSTEMS:	N/A
414 HAZARDOUS MATERIALS:	N/A	428 HIGHER EDUCATION LAB:	N/A
415 GROUPS H-1, H-2, H-3, H-4, H-5:	N/A		

420 GROUPS I-1, R-1, R-2, R-3, & R-4: 420.2 SEPARATION WALLS:	WALLS SEPARATING SLEEPING UNITS TO BE FIRE PARTITIONS PER SECTION 708
420.3 HORIZONTAL SEPARATION:	FLOORS SEPARATING SLEEPING UNITS TO BE HORIZONTAL ASSEMBLY PER SECTION 711
420.4 AUTOMATIC SPRINKLER:	13R PER 903.3.1.2 IN GROUP R

CHAPTER FIVE

TABLE 504.3 ALLOWABLE HEIGHT IN FEET ABOVE GRADE PLANE:	CONSTRUCTION TYPE VA R: ACTUAL: 48'-8" ALLOWABLE: 60'-0" A: ACTUAL: 13'-3" ALLOWABLE: 70'-0" B: ACTUAL: 13'-3" ALLOWABLE: 70'-0"
TABLE 504.4 ALLOWABLE NUMBER OF STORIES ABOVE GRADE PLANE:	R-1: ACTUAL: 4 ALLOWABLE: 4 STORIES A-2: ACTUAL: 1 ALLOWABLE: 3 STORIES A-4: ACTUAL: 1 ALLOWABLE: 3 STORIES B: ACTUAL: 1 ALLOWABLE: 4 STORIES
TABLE 506.2 ALLOWABLE AREA FACTOR:	R-1: ACTUAL:14,825 ALLOWABLE: 12,000 SQFT A-2: ACTUAL:6,620 ALLOWABLE: 11,500 SQFT A-4: ACTUAL:1,500 ALLOWABLE: 11,500 SQFT
506.2.4 MIXED-OCCUPANCY, MULTISTORY BUILDING:	Aa = [At + (NS x If)] Aa = [12,000 + (12,000 x 0.75)] Aa = 21,000 SQFT, ALLOWABLE
506.33. AMOUNT OF INCREASE:	If = [F/P - 0.25]W/30 If = [575/575 - 0.25]30/30 If = 0.75
TABLE 508.4 REQUIRED SEPARATION OF OCCUPANCIES:	R - R: 1 HOUR R - A: 1 HOUR R - B: 1 HOUR A - A: 0 HOUR A - B: 1 HOUR B - B: 0 HOUR
TABLE 509 INCIDENTAL USES:	LAUNDRY > 100 SF, 1HR STORAGE > 100 SF, 1HR

CHAPTER SIX

TABLE 601 FIRE RESISTANCE REQS. FOR BUILDING ELEMENTS (HOURS):	CONSTRUCTION TYPE VA PRIMARY STRUCUTRAL FRAME: 1 HOUR INTERIOR BEARING WALL: 1 HOUR EXTERIOR BEARING WALL: 1 HOUR NON-BEARING WALL: 0 HOUR FLOOR CONSTRUCTION: 1 HOUR ROOF CONSTRUCTION: 1 HOUR
TABLE 602 FIRE RESISTANCE REQS. FOR EXTERIOR WALLS BASED ON FIRE SEP. DISTANCE:	0 HOUR <30 FEET, 0 >30 FEET

CODE PLAN LEGEND

100 / 20" / (72")	NUMBER OF OCCUPANTS EXITING REQUIRED EXIT WIDTH EXIT WIDTH PROVIDED BY DESIGN
	EXT. - RATED PARTITION (IBC CH. 6)
	NON - RATED PARTITION
1P	1 HR RATED PARTITION (IBC 708)
1B	1 HR RATED BARRIER (IBC 707)
2B	2 HR RATED FIRE OR SMOKE BARRIER (IBC 709)
2SH	2 HR RATED SHAFT ENCLOSURE (IBC 713)
101	ROOM NUMBER
FE	FIRE EXTINGUISHER CABINET OR SURFACE MTD. AT CONC.
KB	FIRE DEPARTMENT KNOX BOX (DEFER SUBMITTAL FOR LOC.)
	FIRE DEPARTMENT CONNECTION
60/S	DOOR RATING
*	DOOR WITH PANIC HARDWARE (SEE DOOR SCHEDULE)
	EXIT SIGNAGE; SEE ELECTRICAL
20'	EGRESS STARTING POINT EGRESS DISTANCE OF TRAVEL EGRESS DIRECTION OF TRAVEL

CHAPTER SEVEN

704 FIRE-RESISTANCE RATING OF STRUCTURAL MEMBERS:	1 HOUR RATED SPRAY APPLIED FIRE RESISTANT MATERIAL
705.5 EXTERIOR WALLS FIRE-RESISTANCE RATING:	FIRE SEPARATION DISTANCE > 10'-0" RATED EXPOSURE FROM INSIDE ONLY
TABLE 705.8 MAX AREA OF EXTERIOR WALL OPENINGS:	FIRE SEPARATION DISTANCE > 25'-0" UNPROTECTED, NO LIMIT
706 FIRE WALLS:	N/A
707 FIRE BARRIERS:	2 HOUR RATED
708 FIRE PARTITIONS:	1 HOUR RATED
709 SMOKE BARRIERS:	1 HOUR-ELEVATOR LOBBY
710 SMOKE PARTITIONS:	N/A, NO RATING REQ.D
711 FLOOR & ROOF ASSEMBLIES:	1 HOUR RATED
712 VERTICAL OPENINGS:	N/A
713 SHAFT ENCLOSURES:	2 HOUR RATED
714 PENETRATIONS:	MATCH ASSEMBLY RATING
715 FIRE-RESISTANT JOINT SYSTEM:	MATCH ASSEMBLY RATING
TABLE 716.1(2) OPENING FIRE PROTECTION & RATING:	2 HOUR SHAFT: 90 MINUTE DOOR 1 HOUR FIRE BARRIER: 60 MINUTE DOOR 1 HOUR CORRIDOR: 20 MINUTE DOOR
717 DUCTS AND AIR TRANSFER OPENINGS:	REQUIRED AT RATED PENETRATIONS, 1.5 HOUR DAMPER RATING
SECTION 718 CONCEALED SPACES:	FIREBLOCK & DRAFTSTOP

CHAPTER NINE

903 AUTOMATIC SPRINKLER SYSTEM:	R-1, REQUIRED: NFPA 13R A-2, REQUIRED: NFPA 13 (REQ'D. >5,000 SQFT) B, REQUIRED: NFPA 13
905 STANDPIPE SYSTEM:	CLASS I REQUIRED
906 PORTABLE FIRE EXTINGUISHERS:	REQUIRED PER NFPA 10, 75'-0" MAX TRAVEL
907 FIRE ALARM & DETECTION SYSTEM:	REQUIRED PER NFPA 72
909 SMOKE CONTROL SYSTEM:	COMPLY WITH IMC

CHAPTER TEN

TABLE 1004.5 MAX FLOOR AREA ALLOWANCES PER OCCUPANT:	R-1, 200 GROSS A-2, 15 NET A-4, 50 GROSS-SWIMMING POOL A-4, 15 GROSS-POOL DECK B, 150 GROSS
SECTION 1005 MEANS OF EGRESS SIZING:	STAIRS 0.2/OCC., W/ SPRINKLER EXCEPTION OTHER EGRESS 0.15/OCC., W/ SPRINKLER EXCP.
TABLE 1006.2.1 SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY:	R-1: 10 OCC., 75' MAX. PATH OF EGRESS A: 49 OCC., 75' MAX. PATH OF EGRESS B: 49 OCC., 100' MAX. PATH OF EGRESS
TABLE 1006.3.2 MINIMUM NUMBER OF EXITS PER STORY:	2 EXITS REQ.D W/ OCCUPANT LOAD/STORY 1-500
1009.3.3 AREA OF REFUGE:	NOT REQUIRED W/ SPRINKLER EXCEPTION
1009.3.3 AREA OF REFUGE:	NOT REQUIRED W/ SPRINKLER EXCEPTION
1009.8 TWO-WAY COMMUNICATION:	REQ'D. AT EACH ELEV. LANDING ABOVE GRADE
1011.2 STAIRWAY WIDTH CAPACITY:	44" MIN.
1011.12 STAIRWAY TO ROOF:	UNOCCUPIED ROOF, ACCESS VIA ROOF HATCH
1014.2 HANDRAIL HEIGHT:	34" MIN. - 38" MAX.
1014.6 HANDRAIL EXTENSIONS:	EXTEND HORIZONTALLY 12" BEYOND TOP RISER CONTINUE SLOPE 1 DEPTH TREAD AT BOTTOM
1014.6 HANDRAIL EXTENSIONS:	EXTEND HORIZONTALLY 12" BEYOND TOP RISER CONTINUE SLOPE 1 DEPTH TREAD AT BOTTOM
1015 GUARDS:	42" MIN. HEIGHT, 4" MAX. OPENING
TABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE:	R: 250' W/ 13R SPRINKLER A: 250' W/ 13 SPRINKLER B: 300' W/ 13 SPRINKLER
1019 EXIT ACCESS STAIRWAYS:	2 HOUR RATED PER 713
TABLE 1020.1 CORRIDOR RATING:	R: 1/2 HOUR RATED W/ 13R SPRINKLER A: NO RATING REQ.D W/ 13 SPRINKLER B: NO RATING REQ.D W/ 13 SPRINKLER
1020.1.1 HOISTWAY OPENING PROTECTION:	REQUIRED PER 3006.2
TABLE 1020.2 MIN. CORRIDOR WIDTH:	44" MIN.
1020.4 DEAD ENDS:	20'-0" MAX.

CHAPTER ELEVEN

ACCESSIBILITY TO COMPLY WITH THIS CH. OF IBC, ICC A117.1, ADA, & FAIR HOUSING

TABLE 1106.1 ACC. PARKING:	(107) TOTAL PARKING STALLS, (7) REQ.D ACC.
TABLE 1107.6.1.1 ACCESSIBLE DWELLING & SLEEPING UNITS:	(107) TOTAL UNITS, (7) REQ.D ACC.

CHAPTER TWELVE

1206 SOUND TRANSMISSION:	50STC RATING BETWEEN SLEEPING UNITS

CHAPTER THIRTY

3006 ELEVATOR LOBBIES AND HOISTWAY OPENING PROTECTION:	HOISTWAY OPENING PROTECTION REQUIRED
3006.3 HOISTWAY OPENING PROTECTION:	SMOKE & DRAFT CONTROL DOOR PER UL 1784 PROVIDED AT EACH ELEVATOR HOISTWAY DOOR

PRINTS ISSUED
04/17/2024 - CITY SUBMISSION

REVISIONS:
1 05/17/2024 CITY RESPONSE

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STATE OF MISSOURI
DAVID EUGENE HENDRIKSE
NUMBER
REGISTERED ARCHITECT
05/17/2024

HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
CODE ANALYSIS

PROJECT NUMBER: 22023

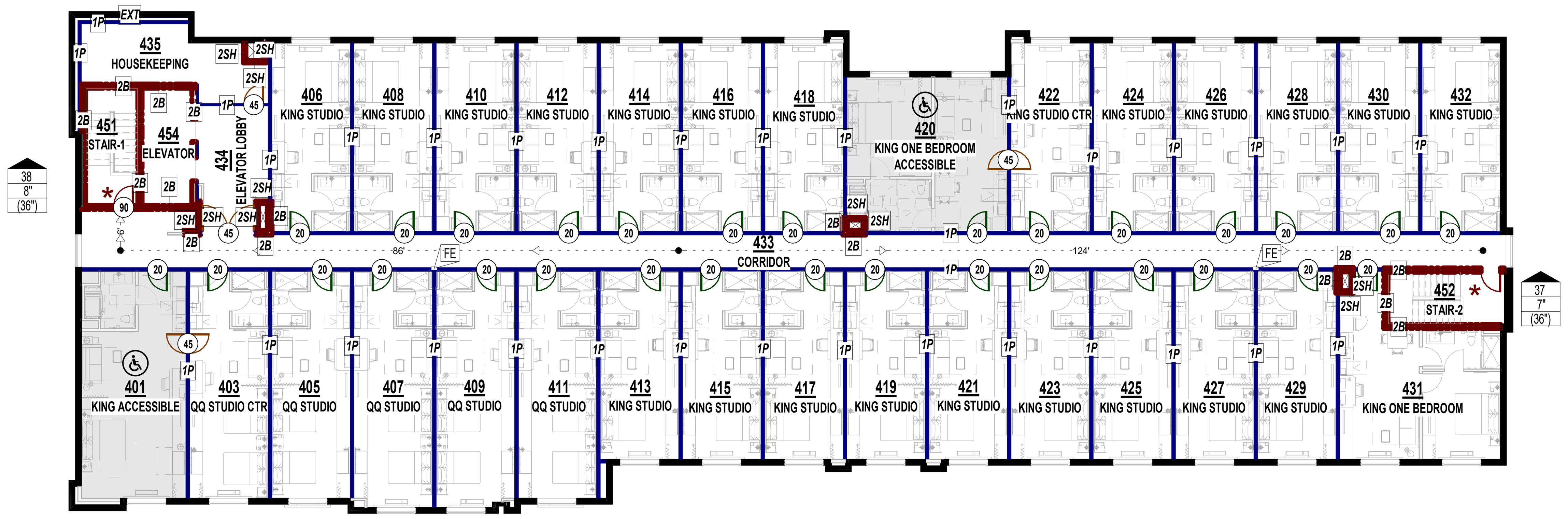
SHEET NUMBER:

G-100

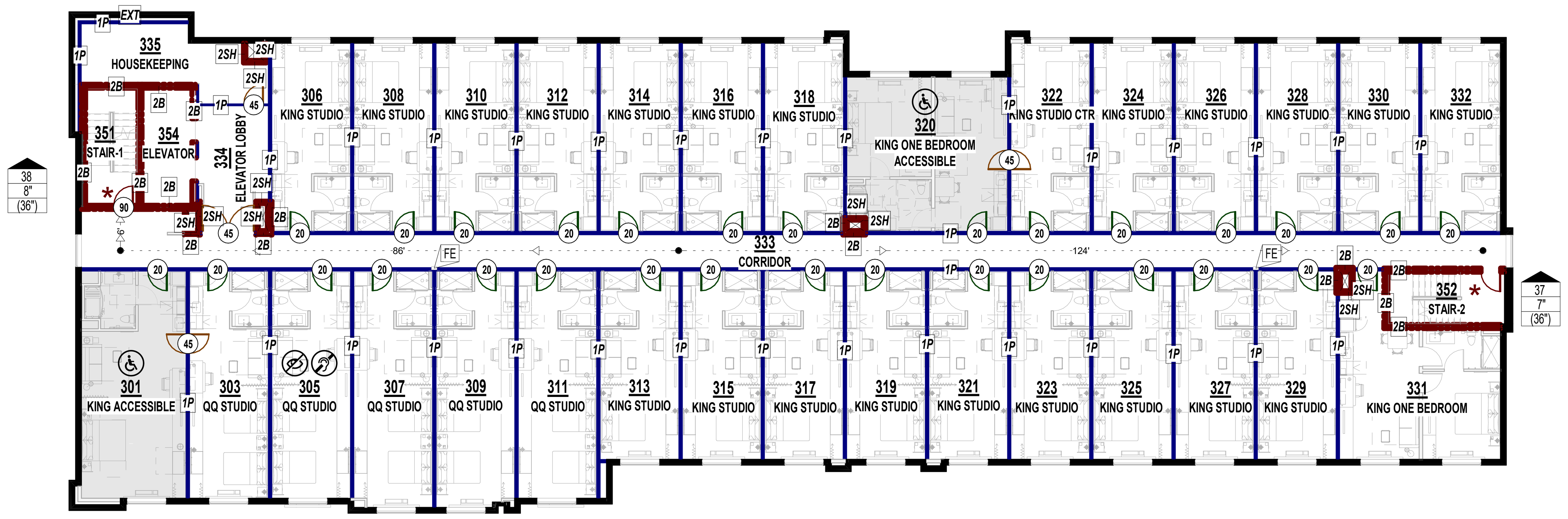
REFERENCE G-003 FOR GENERAL NOTES
REFERENCE G-100 FOR CODE PLAN LEGEND

PRINTS ISSUED
04/17/2024 - CITY SUBMISSION

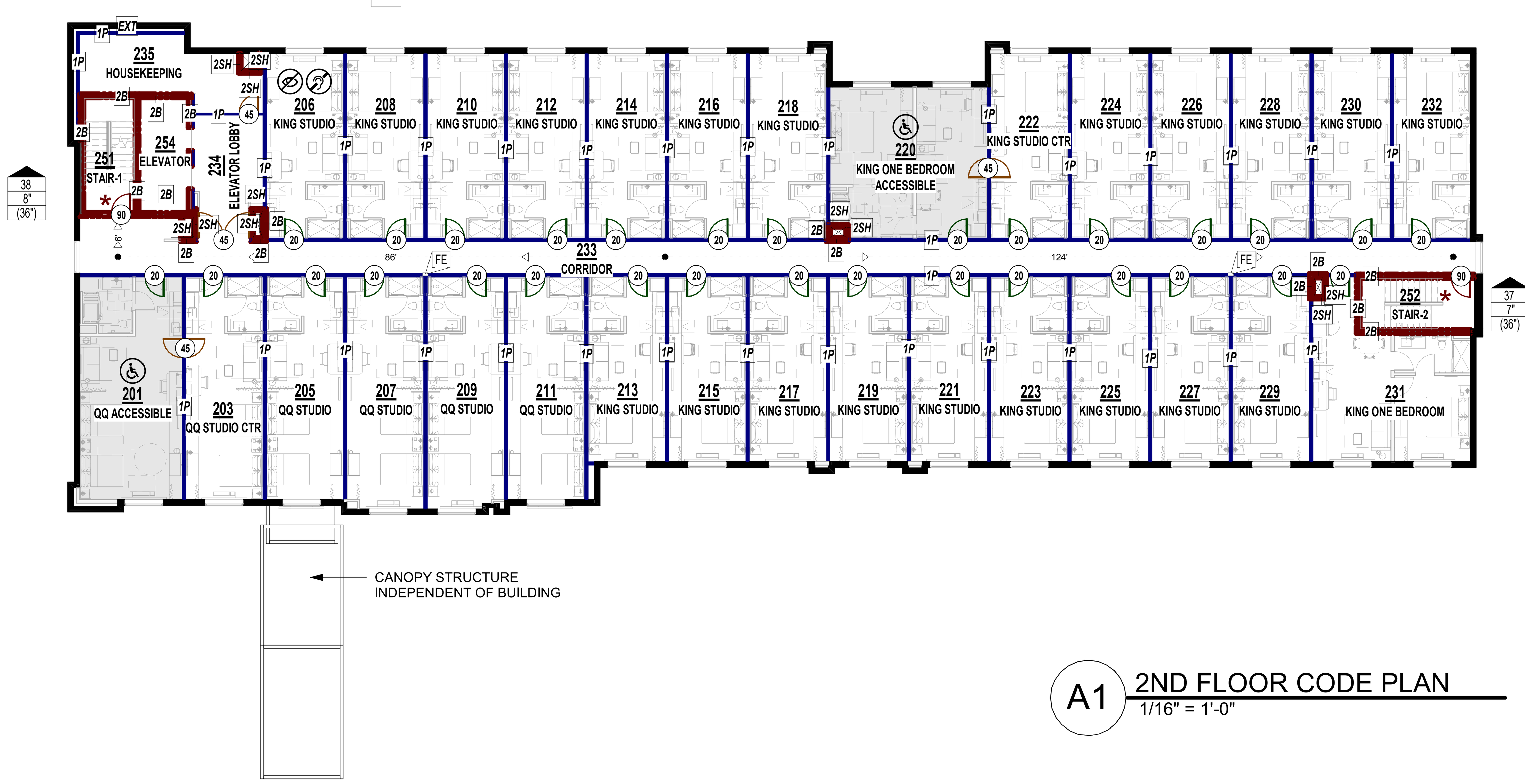
REVISIONS:



A3 4TH FLOOR CODE PLAN
1/16" = 1'-0"



A2 3RD FLOOR CODE PLAN
1/16" = 1'-0"



A1 2ND FLOOR CODE PLAN
1/16" = 1'-0"

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STATE OF MISSOURI
DAVID EUGENE HENDRIKSE
NUMBER A-7305
REGISTERED ARCHITECT
04/17/2024

HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
CODE ANALYSIS

PROJECT NUMBER: 22023

SHEET NUMBER:

G-101

INTERIOR PARTITION ASSEMBLIES (METAL-NON-RATED)

P54

METAL 1/2" FURRING / HAT CHANNEL - NON-RATED FURRING - INTERIOR
- (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD
- 1/2" FURRING / HAT CHANNEL, SPACED 16" O.C. (GAUGE DETERMINED BY WALL HEIGHT)

NOTES:
a. ATTACH GYPSUM WITH 1-1/4" TYPE 'W' STEEL SCREWS SPACED 12" O.C.

INTERIOR PARTITION ASSEMBLIES (METAL-1 HR RATED)

P64

METAL 3-5/8" STUD - 1HR PARTITION - INTERIOR
- (2) LAYERS 5/8" TYPE "X" GYPSUM BOARD
- 3-5/8" STUDS SPACED 16" O.C. MAX, OR PER STRUCT. DWGS.

NOTES:
a. ASSEMBLY TO COMPLY WITH 2018 IBC 722, INCLUDING TABLE 721.1 (2)
b. REFER TO IBC REFERENCE LISTED ABOVE FOR SCREW PATTERN AND OTHER REQUIREMENTS

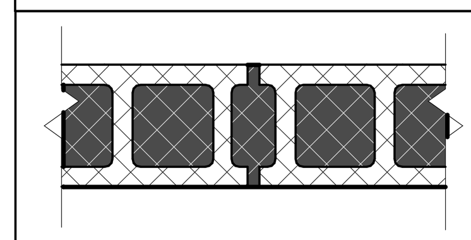
INTERIOR PARTITION ASSEMBLIES (METAL-2 HR RATED)

P75

METAL 2 1/2" C-H STUD - 2HR RATED SHAFT - INTERIOR
- (2) LAYERS 5/8" TYPE 'X' GYPSUM BOARD PER UL
- 2-1/2" C-H STUDS SPACED 24" O.C.
- (1) LAYER 1" SHAFT WALL LINER

NOTES:
a. ASSEMBLY TO COMPLY WITH UL DESIGN U415, SYSTEM A (FEB 14, 2022)
b. REFER TO UL FOR SCREW PATTERN AND OTHER REQUIREMENTS

INTERIOR ASSEMBLIES - CMU / CONCRETE

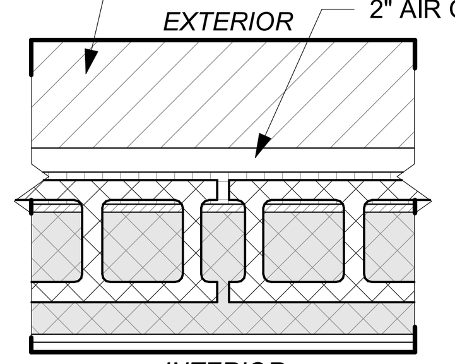


P41

CMU 8" BLOCK - 2HR FIRE BARRIER - INTERIOR
- 8" CMU (REINFORCING PER STRUCT)

NOTES:
a. ASSEMBLY TO COMPLY WITH UL DESIGN U905 (APR 14, 2023)
b. APPLY WATERPROOFING AT ALL SUBGRADE PORTION OF WALLS

EXTERIOR ASSEMBLIES - CMU / CONCRETE



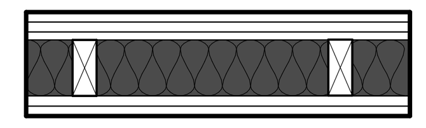
P45

CMU 8" BLOCK - NON-RATED - EXTERIOR (AT STAIRS)
EXTERIOR
- EXTERIOR FINISH SYSTEM PER ELEVATIONS - BRICK SHOWN
- WEATHER RESISTANT BARRIER PER SPECIFICATIONS
- R VALUE PER IECC AS INDICATED ON DRAWINGS / SPECIFICATIONS
- (1) LAYER SHEATHING PER STRUCT. DRAWINGS
- 8" CMU (REINFORCING PER STRUCT)
- RESILIENT CHANNEL
- (1) LAYER 5/8" TYPE "X" GYPSUM BOARD

INTERIOR

NOTES:
a. INTERIOR EXPOSED AREAS TO BE PAINTED PER FINISH SCHEDULE
b. APPLY WATERPROOFING AT ALL SUBGRADE PORTION OF WALLS

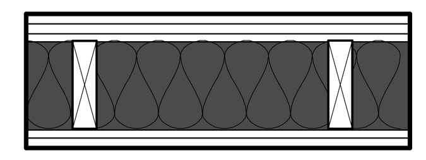
INTERIOR BARRIER ASSEMBLIES - WOOD - 2 HR RATED



P22

WOOD 2X4 STUD - 2HR BARRIER - INTERIOR
- (2) LAYERS 5/8" TYPE "X" GYPSUM BOARD
- 25 MSG GALVANIZED RESILIENT CHANNEL, 24" O.C.
- 2x4 WOOD STUDS SPACED 16" O.C. MAX OR PER STRUCT. DWGS.
- 3-1/2" FRICTION FIT BATT INSULATION IN STUD CAVITY
- (2) LAYERS 5/8" TYPE "X" GYPSUM BOARD

NOTES:
a. ASSEMBLY TO COMPLY WITH UL DESIGN U301 (AUG 2, 2023)
b. REFER TO UL FOR SCREW PATTERN AND OTHER REQUIREMENTS
c. SHALL COMPLY WITH IBC SECTION 7 FOR FIRE BARRIER
d. STC SHALL BE 50 OR OVER AT UNIT ASSEMBLIES, MEETING ASTM E90 (STC 58 BASED UPON TESTING NGC 2011069)

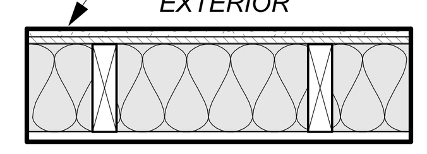


P23

WOOD 2X6 STUD - 2HR BARRIER - INTERIOR
- (2) LAYERS 5/8" TYPE "X" GYPSUM BOARD
- 25 MSG GALVANIZED RESILIENT CHANNEL, 24" O.C.
- 2x6 WOOD STUDS SPACED 16" O.C. MAX OR PER STRUCT. DWGS.
- 5-1/2" FRICTION FIT BATT INSULATION IN STUD CAVITY
- (2) LAYERS 5/8" TYPE "X" GYPSUM BOARD

NOTES:
a. ASSEMBLY TO COMPLY WITH UL DESIGN U301 (AUG 2, 2023)
b. REFER TO UL FOR SCREW PATTERN AND OTHER REQUIREMENTS
c. SHALL COMPLY WITH IBC SECTION 7 FOR FIRE BARRIER
d. STC SHALL BE 50 OR OVER AT UNIT ASSEMBLIES, MEETING ASTM E90 (STC 58 BASED UPON TESTING NGC 2011069)

EXTERIOR PARTITION ASSEMBLIES - WOOD - NON RATED

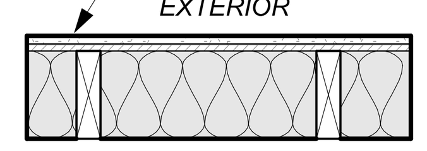


P36

WOOD 2x6 STUD - NON-RATED EXTERIOR
EXTERIOR
- EXTERIOR FINISH SYSTEM PER ELEVATIONS
- WEATHER RESISTANT BARRIER, PER SPECIFICATIONS
- (1) LAYER SHEATHING PER STRUCT. DWGS.
- 2x6 WOOD STUDS SPACED 16" O.C. MAX OR PER STRUCT. DWGS.
- (1) LAYER 5/8" TYPE "X" GYPSUM BOARD

INTERIOR

NOTES:
a. INTERIOR TO BE PAINTED PER FINISH SCHEDULE
b. SCREW PATTERN PER STRUCT.



P37

WOOD 2x6 STUD - NON-RATED FURRING EXTERIOR
EXTERIOR
- EXTERIOR FINISH SYSTEM PER ELEVATIONS
- WEATHER RESISTANT BARRIER, PER SPECIFICATIONS
- (1) LAYER 15/32" OSB SHEATHING MIN. OR PER STRUCT. DWGS IF THICKNESS IS GREATER.
- 2x6 WOOD STUDS SPACED 16" O.C. MAX OR PER STRUCT. DWGS.

INTERIOR

NOTES:
a. SCREW PATTERN PER STRUCT.

INTERIOR PARTITION ASSEMBLIES - WOOD - NON RATED

P1

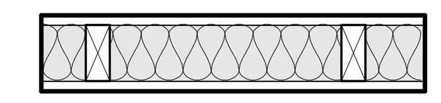
WOOD 2X4 STUD - NON-RATED PARTITION - INTERIOR
- (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD
- 2x4 WOOD STUDS SPACED 16" O.C.
- (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD

NOTES:
a. ATTACH GYPSUM WITH 1-1/4" TYPE 'W' STEEL SCREWS @ 12" O.C.

P2

WOOD 2X6 STUD - NON-RATED PARTITION - INTERIOR
- (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD
- 2x6 WOOD STUDS SPACED 16" O.C.
- (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD

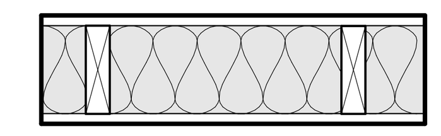
NOTES:
a. ATTACH GYPSUM WITH 1-1/4" TYPE 'W' STEEL SCREWS @ 12" O.C.



P4

WOOD 2X4 STUD - NON-RATED PARTITION - INTERIOR SOUND DAMPENING
- (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD
- 2x4 WOOD STUDS SPACED 16" O.C.
- 3 1/2" BATT INSULATION IN STUD CAVITY
- (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD

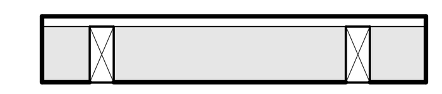
NOTES:
a. ATTACH GYPSUM WITH 1-1/4" TYPE 'W' STEEL SCREWS @ 12" O.C.



P5

WOOD 2X6 STUD - NON-RATED PARTITION - INTERIOR SOUND DAMPENING
- (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD
- 2x6 WOOD STUDS SPACED 16" O.C.
- 5 1/2" BATT INSULATION IN STUD CAVITY
- (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD

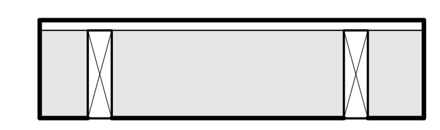
NOTES:
a. ATTACH GYPSUM WITH 1-1/4" TYPE 'W' STEEL SCREWS @ 12" O.C.



P7

WOOD 2X4 STUD - NON-RATED FURRING - INTERIOR
- (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD ON OCCUPIED SIDE
- 2x4 WOOD STUDS SPACED 16" O.C.

NOTES:
a. ATTACH GYPSUM WITH 1-1/4" TYPE 'W' STEEL SCREWS @ 12" O.C.

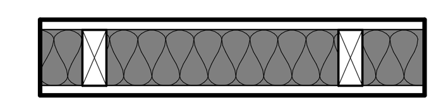


P9

WOOD 2X6 STUD - NON-RATED FURRING - INTERIOR
- (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD ON OCCUPIED SIDE
- 2x6 WOOD STUDS SPACED 16" O.C.

NOTES:
a. ATTACH GYPSUM WITH 1-1/4" TYPE 'W' STEEL SCREWS @ 12" O.C.

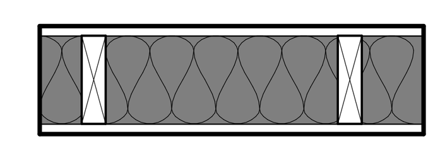
INTERIOR PARTITION ASSEMBLIES - WOOD - 1 HR RATED



P10

WOOD 2X4 STUD - 1HR PARTITION - INTERIOR
- (1) LAYER 5/8" TYPE "X" GYPSUM BOARD
- 2x4 WOOD STUDS SPACED 16" O.C. MAX, OR PER STRUCT. DWGS.
- 3-1/2" FRICTION FIT UNFACED BATT INSULATION IN STUD CAVITY
- (1) LAYER 5/8" TYPE "X" GYPSUM BOARD

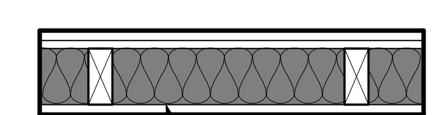
NOTES:
a. ASSEMBLY TO COMPLY WITH UL DESIGN U305 (AUG 4, 2023)
b. REFER TO UL FOR SCREW PATTERN AND OTHER REQUIREMENTS



P11

WOOD 2X6 STUD - 1HR PARTITION - INTERIOR
- (1) LAYER 5/8" TYPE "X" GYPSUM BOARD
- 2x6 WOOD STUDS SPACED 16" O.C. MAX, OR PER STRUCT. DWGS.
- 5-1/2" FRICTION FIT UNFACED BATT INSULATION IN STUD CAVITY
- (1) LAYER 5/8" TYPE "X" GYPSUM BOARD

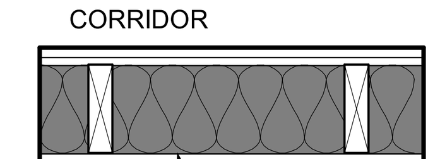
NOTES:
a. ASSEMBLY TO COMPLY WITH UL DESIGN U305 (AUG 4, 2023)
b. REFER TO UL FOR SCREW PATTERN AND OTHER REQUIREMENTS



P12

WOOD 2X4 STUD - 1HR PARTITION - INTERIOR SOUND DAMPENING
- (1) LAYER 5/8" TYPE "X" GYPSUM BOARD
- 25 MSG GALVANIZED STEEL RESILIENT CHANNEL, 24" O.C.
- 2x4 WOOD STUDS SPACED 16" O.C. MAX. OR PER STRUCT. DWGS.
- 3-1/2" FRICTION FIT UNFACED BATT INSULATION IN STUD CAVITY
- (1) LAYER 5/8" TYPE "X" GYPSUM BOARD

NOTES:
a. ASSEMBLY TO COMPLY WITH UL DESIGN U305 (AUG 4, 2023)
b. REFER TO UL FOR SCREW PATTERN AND OTHER REQUIREMENTS
c. STC SHALL BE 50 OR OVER AT UNIT ASSEMBLIES, MEETING ASTM E90 (STC 51 BASED UPON TESTING NGC 2011071)
d. WHERE PARTITION DIVIDES A CORRIDOR AND UNIT, RESILIENT CHANNEL SHALL BE ON CORRIDOR SIDE OF WALL, GC TO COORDINATE
e. WHERE PARTITION IS USED AS A DEMISING WALL AND/OR FOR STRUCTURAL SHEAR, GC TO COORDINATE ADDITIONAL LAYERS OF STRUCTURAL MATERIAL PER STRUCTURAL DRAWINGS. THESE LAYERS TO BE ADDITIVE TO THE ASSEMBLY LISTED ABOVE AND SHALL BE INCORPORATED PER UL 263. WHERE ONLY ONE LAYER IS ADDED FOR STRUCTURAL SHEAR, THIS SHALL BE PLACED ON SIDE OF WALL WHERE ONLY GYPSUM BOARD RESIDES, NOT ON RESILIENT CHANNEL SIDE.



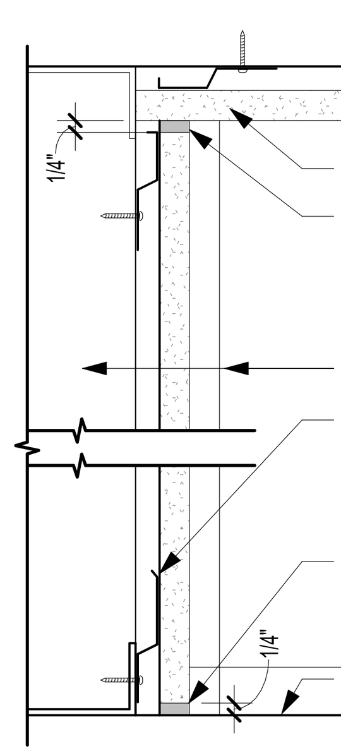
P13

WOOD 2X6 STUD - 1HR PARTITION - GUEST ROOM DIVISION & CORRIDORS
- (1) LAYER 5/8" TYPE "X" GYPSUM BOARD
- 25 MSG GALVANIZED STEEL RESILIENT CHANNEL, 24" O.C.
- 2x6 WOOD STUDS SPACED 16" O.C. MAX. OR PER STRUCT. DWGS.
- 5-1/2" FRICTION FIT UNFACED BATT INSULATION IN STUD CAVITY
- (1) LAYER 5/8" TYPE "X" GYPSUM BOARD

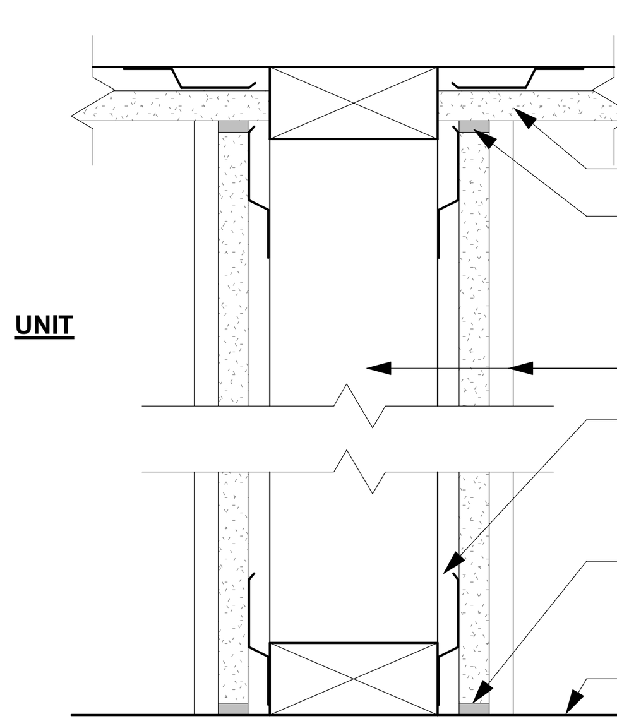
NOTES:
a. ASSEMBLY TO COMPLY WITH UL DESIGN U305 (SEPT 19, 2023)
b. REFER TO UL FOR SCREW PATTERN AND OTHER REQUIREMENTS
c. STC SHALL BE 50 OR OVER AT UNIT ASSEMBLIES, MEETING ASTM E90 (STC 51 BASED UPON TESTING NGC 2011071)
d. WHERE PARTITION DIVIDES A CORRIDOR AND UNIT, RESILIENT CHANNEL SHALL BE ON CORRIDOR SIDE OF WALL, GC TO COORDINATE
e. WHERE PARTITION IS USED AS A DEMISING WALL AND/OR FOR STRUCTURAL SHEAR, GC TO COORDINATE ADDITIONAL LAYERS OF STRUCTURAL MATERIAL PER STRUCTURAL DRAWINGS. THESE LAYERS TO BE ADDITIVE TO THE ASSEMBLY LISTED ABOVE AND SHALL BE INCORPORATED PER UL 263. WHERE ONLY ONE LAYER IS ADDED FOR STRUCTURAL SHEAR, THIS SHALL BE PLACED ON SIDE OF WALL WHERE ONLY GYPSUM BOARD RESIDES, NOT ON RESILIENT CHANNEL SIDE.

PARTITION NOTES

1. USE MOISTURE AND MOLD RESISTANT DRYWALL AT ALL WET WALLS. USE CEMENTITIOUS BACKER BOARD IF TILE IS TO BE INSTALLED.
2. REFER TO G-200 SHEETS FOR SPECIFIC UL DESIGN REQUIREMENTS.
3. ALL FIRE RATED PARTITIONS MUST USE TYPE-'X' / FIRE RATED GYPSUM BOARD IN THICKNESS INDICATED OR NECESSARY TO ACHIEVE REQUIRED RATING.
4. PUTTY PADS SHALL BE INSTALLED AT THE FOLLOWING LOCATIONS: UNIT/CORRIDOR SEPARATION PARTITIONS; ALL UNIT DEMISING PARTITIONS WHERE MULTIPLE BOXES ARE INSTALLED IN THE SAME STUD CAVITY, INCLUDING BACK-TO-BACK BOXES.
5. REFER TO STRUCTURAL FOR ALL SHEAR AND BEARING WALL LOCATIONS & REQUIREMENTS.
6. ALL WALLS ARE FULL HEIGHT TO THE UNDERSIDE OF FLOOR/ROOF CEILING ASSEMBLY UNLESS NOTED OTHERWISE.
7. ALL STEEL COLUMNS AND STEEL BEAMS REQUIRE 1 HOUR PROTECTION, REFER TO CODE PLANS FOR LOCATION.
8. FIREBLOCKING SHALL BE INSTALLED IN CONCEALED SPACES OF STUD WALL AND PARTITIONS INCLUDING FURRED SPACES VERTICALLY AT THE CEILING AND FLOOR LEVELS AND HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET. USE UL RATED FIRESTOP FOAM, CAULK OR PADS (OR EQUIVALENT UL RATED MATERIAL THAT MAINTAINS THE ASSEMBLY'S RATING PER THE SCHEDULE.



B1 ACOUSTIC SEALANT @ FLOOR/CEILING
3" = 1'-0"



A1 UNIT/UNIT ACOUSTICAL SEALANT @ FLOOR/CEILING
3" = 1'-0"

PRINTS ISSUED
04/17/2024 - CITY SUBMISSION

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DENVER ▲ KANSAS CITY ▲ ST. LOUIS ▲ ATLANTA

STATE OF MISSOURI
DAVID EUGENE HENDRIKSE
NUMBER A-7305
REGISTERED ARCHITECT
04/17/2024

HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

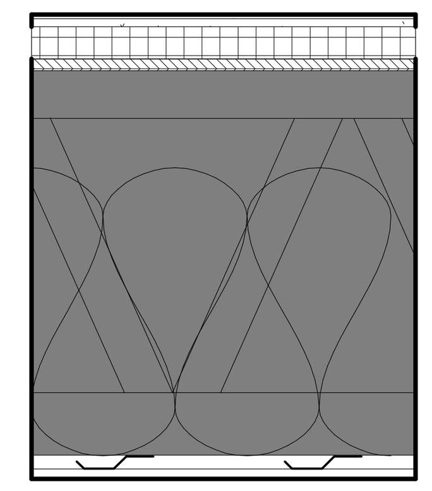
SHEET TITLE
PARTITION ASSEMBLIES

PROJECT NUMBER: 22023

SHEET NUMBER:
G-102

ROOF/CEILING ASSEMBLY-WOOD

EXTERIOR



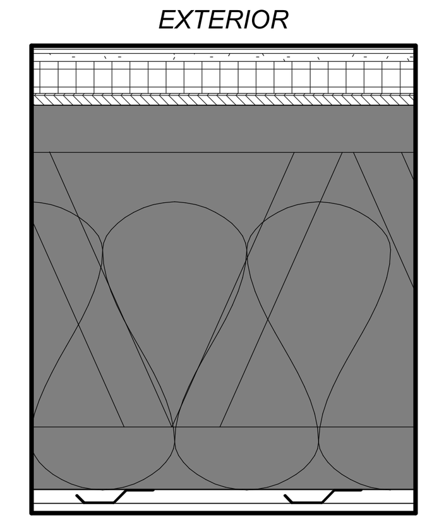
INTERIOR

R6

WOOD LOW SLOPE TRUSS - 1HR - TPO
- TPO ROOFING MEMBRANE, PER SPECIFICATION TO MEET IECC
- 1/2" COVERBOARD, NON-COMBUSTIBLE, WATER-RESISTANT.
- 15/32" MIN. ROOF SHEATHING, SEE NOTE b.
- TOP CHORD SLOPING WOOD TRUSS FRAMING PER STRUCT. DWGS, MAX SPACING 24" OC - REFERENCE UL FOR CONSTRUCTION, TRUSS PRE-SLOPED TO DRAIN
- R-38 INSULATION PER IECC, INSTALLED PER UL
- VAPOR BARRIER CLASS 1 ON UNDERSIDE OF TRUSS, AS REQUIRED
- 25 MSG GALVANIZED STEEL RESILIENT CHANNELS, SPACED PER UL
- (1) LAYER OF 5/8" TYPE 'AG-C' GWB, BY AMERICAN GYPSUM CO, PER UL

NOTES:
a. ASSEMBLY TO COMPLY WITH UL DESIGN P545 (SEPT 8, 2023)
b. STRUCTURAL SHALL SUPERCEDE IF STRUCT SHEATHING IS THICKER OR DIFFERENT TYPE THAN LISTED ABOVE. PROVIDE REQ MIN ABOVE.
c. REFER TO UL FOR SCREW PATTERN
d. TRUSSES SLOPED TO SCUPPER DRAIN AND DOWNSPOUT.
e. CRICKETS AS INDICATED ON ROOF PLAN TO BE FORMED OUT OF PRE-SLOPED POLYISO RIGID INSULATION. SLOPE TO DRAIN
f. ROOF VENTS PER ROOF PLAN TO MEET REQUIRED VENTING

EXTERIOR



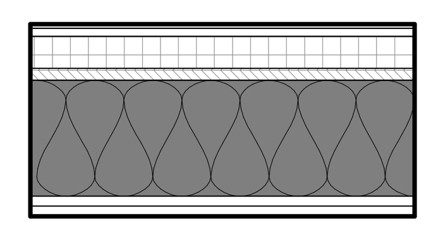
INTERIOR

R8

WOOD PARALLEL CHORD TRUSS - 1HR - TPO
- TPO ROOFING, PER SPECIFICATION TO MEET IECC
- 1/2" COVERBOARD, NON-COMBUSTIBLE, WATER-RESISTANT
- TAPERED INSULATION, SLOPE PER PLAN
- 15/32" MIN. ROOF SHEATHING, SEE NOTE b.
- WOOD TRUSS FRAMING PER STRUCT. DWGS, MAX SPACING 24" OC - REFERENCE UL FOR CONSTRUCTION
- R-38 INSULATION PER IECC, INSTALLED PER UL
- VAPOR BARRIER CLASS 1 ON UNDERSIDE OF TRUSS, AS REQUIRED
- 25 MSG GALVANIZED STEEL RESILIENT CHANNELS, SPACED PER UL
- (1) LAYER OF 5/8" TYPE 'AG-C' GWB, BY AMERICAN GYPSUM CO, PER UL

NOTES:
a. ASSEMBLY TO COMPLY WITH UL DESIGN P545 (SEPT 8, 2023)
b. STRUCTURAL SHALL SUPERCEDE IF STRUCT SHEATHING IS THICKER OR DIFFERENT TYPE THAN LISTED ABOVE. PROVIDE REQ MIN ABOVE.
c. REFER TO UL FOR SCREW PATTERN
d. CRICKETS AS INDICATED ON ROOF PLAN TO BE FORMED OUT OF PRE-SLOPED POLYISO RIGID INSULATION. SLOPE TO DRAIN
e. ROOF VENTS PER ROOF PLAN TO MEET REQUIRED VENTING

EXTERIOR



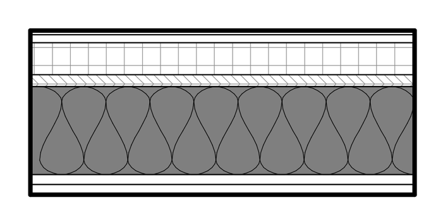
INTERIOR

R11

WOOD FLAT 2X8 LUMBER - 1HR - TPO
- TPO ROOFING MEMBRANE PER SPECIFICATIONS TO MEET IECC
- 1/2" COVERBOARD, NON-COMBUSTIBLE, WATER-RESISTANT
- TAPERED INSULATION, SLOPE PER PLAN
- R-20 RIGID INSULATION MIN. (OR NECESSARY TO MEET MIN. IECC REQUIREMENT)
- VAPOR BARRIER CLASS 1, SELF ADHERED TO SHEATHING, AS REQUIRED
- SHEATHING PER STRUCTURAL DWGS.
- WOOD 2X8 FRAMING SPACED PER STRUCTURAL
- R-19 BATT INSULATION
- (2) LAYERS OF 5/8" TYPE 'X' GWB. PER GA ASSEMBLY

NOTES:
a. ASSEMBLY TO COMPLY WITH GA FILE NO. RC 2601
b. REFER TO GA FOR SCREW PATTERN

EXTERIOR



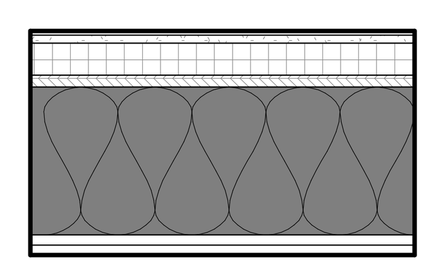
INTERIOR

R12

WOOD FLAT 2X6 LUMBER - 1HR - TOP OF ELEVATOR
- TPO ROOFING MEMBRANE PER SPECIFICATIONS TO MEET IECC
- 1/2" COVERBOARD, NON-COMBUSTIBLE, WATER-RESISTANT
- TAPERED INSULATION, SLOPE PER PLAN
- R-20 RIGID INSULATION MIN. (OR NECESSARY TO MEET MIN. IECC REQUIREMENT)
- VAPOR BARRIER CLASS 1, SELF ADHERED TO SHEATHING, AS REQUIRED
- SHEATHING PER STRUCTURAL DWGS.
- WOOD 2X6 FRAMING SPACED PER STRUCTURAL
- R-19 BATT INSULATION
- (2) LAYERS OF 5/8" TYPE 'X' GWB. PER GA ASSEMBLY

NOTES:
a. ASSEMBLY TO COMPLY WITH GA FILE NO. RC 2601
b. REFER TO GA FOR SCREW PATTERN

EXTERIOR



INTERIOR

R13

WOOD FLAT 2X10 LUMBER - 1HR - TPO
- TPO ROOFING MEMBRANE PER SPECIFICATIONS TO MEET IECC
- 1/2" COVERBOARD, NON-COMBUSTIBLE, WATER-RESISTANT
- TAPERED INSULATION, SLOPE PER PLAN
- R-20 RIGID INSULATION MIN. (OR NECESSARY TO MEET MIN. IECC REQUIREMENT)
- VAPOR BARRIER CLASS 1, SELF ADHERED TO SHEATHING, AS REQUIRED
- SHEATHING PER STRUCTURAL DWGS.
- WOOD 2X10 FRAMING SPACED PER STRUCTURAL
- R-19 BATT INSULATION
- (2) LAYERS OF 5/8" TYPE 'X' GWB. PER GA ASSEMBLY

NOTES:
a. ASSEMBLY TO COMPLY WITH GA FILE NO. RC 2601
b. REFER TO GA FOR SCREW PATTERN

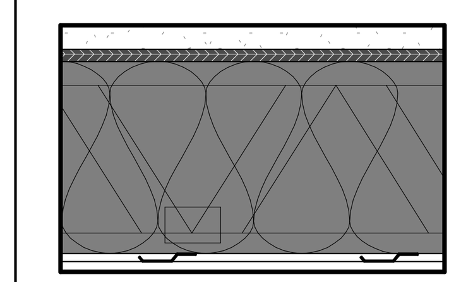
FLOOR/CEILING ASSEMBLY-WOOD

F1

CONCRETE - NON-RATED - SLAB ON GRADE
- CONCRETE SLAB ON GRADE PER STRUCT. DWGS.

NOTES
a. SEE STRUCTURAL FOR REINFORCING AND THICKNESS
b. VERIFY SLAB ELEVATIONS WITH CIVIL AND LANDSCAPE

TOP OF FLOOR



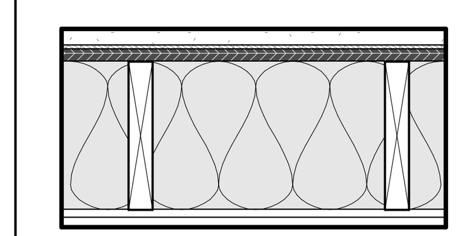
BOTTOM OF FLOOR

F3

WOOD OPEN WEB TRUSS - 1HR
- 1-1/2" GYPCRETE TOPPING
- 3/4" MIN. PLYWOOD SHEATHING, TYPE 'C/D' , SEE ALSO NOTE b.
- WOOD TRUSSES PER STRUCTURAL, REFER TO UL FOR MIN. REQS
- UNFACED FIBERGLASS INSULATION COMPLETELY FILLED IN CONCEALED CAVITY TO COMPLY WITH NFPA 13 CONCEALED SPACES.
- 25 MSG GALVANIZED RESILIENT CHANNELS, SPACED PER U.L.
- (1) LAYER OF 5/8" TYPE 'C' GWB PER UL

NOTES:
a. ASSEMBLY TO COMPLY WITH UL DESIGN L546 (OCT. 3, 2023)
b. STRUCTURAL SHALL SUPERCEDE IF STRUCT SHEATHING IS THICKER OR DIFFERENT TYPE THAN LISTED ABOVE. PROVIDE REQ MIN ABOVE.
c. REFER TO UL FOR SCREW PATTERN
d. STC TO BE MIN. 50 PER IBC CHAPTER 12, IIC TO BE EQUAL OR GREATER THAN 50 WHEN TESTED UNDER ASTM E 492. (STC 60 BASED UPON TESTING 30160-08-90744-11. IIC 52 BASED UPON TESTING 30160-08-90744-7 ASSUMING VCT FLOOR FINISH.)
e. VERIFY GWB AND RESILIENT CHANNEL WITH UL SPECIFIED, TAKE NOTE OF REQUIRED RESILIENT CHANNEL SPACING WITH INSULATION-FILLED CAVITY

TOP OF FLOOR



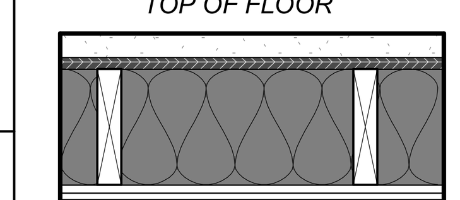
BOTTOM OF FLOOR

F6

WOOD 2X10 LUMBER - 1HR - STAIR LANDINGS
- 1" GYPCRETE TOPPING
- 1/4" ACOUSTICAL MAT
- MIN 15/32" TYPE 'C/D' SHEATHING OR PER UL SYSTEM, SEE NOTE b.
- 2X10 WOOD JOISTS SPACED MAX 16" O.C.; REFER TO STRUCTURAL FOR REQUIRED SPACING IF MORE RESTRICTIVE
- CROSS BRIDGING PER UL
- UNFACED FIBERGLASS INSULATION COMPLETELY FILLED IN CONCEALED CAVITY TO COMPLY WITH NFPA 13 CONCEALED SPACES AND UL
- 25 MSG GALVANIZED RESILIENT CHANNEL SPACED PER UL.
- (2) LAYERS OF 5/8" TYPE 'C' GWB PER UL

NOTES:
a. RATING FOR 2X10 DIMENSIONAL LUMBER ASSEMBLY: 2018 IBC TABLE 721.1(3) #21-1.1 & AMERICAN WOOD COUNCIL'S DCA 4 (COMPONENT ADDITIVE METHOD FOR CALCULCULATING AND DEMONSTRATING ASSEMBLY FIRE RESISTANCE)
b. STRUCTURAL SHALL SUPERCEDE IF STRUCT SHEATHING IS THICKER OR DIFFERENT TYPE THAN LISTED ABOVE. PROVIDE REQ MIN ABOVE.
c. REFER TO IBC TABLE FOR SCREW PATTERN

TOP OF FLOOR



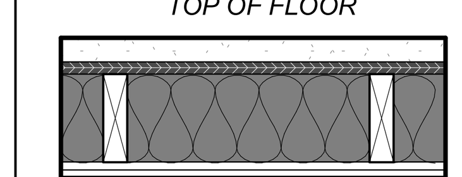
BOTTOM OF FLOOR

F7

WOOD 2X8 LUMBER - 1HR - CORRIDOR
- 1-1/2" GYPCRETE TOPPING
- 3/4" SHEATHING MIN, SEE NOTE b.
- 2X8 WOOD JOISTS SPACED PER STRUCTURAL
- UNFACED FIBERGLASS INSULATION COMPLETELY FILLED IN CONCEALED CAVITY TO COMPLY WITH NFPA 13 CONCEALED SPACES.
- (2) LAYERS OF 5/8" TYPE 'X' GWB PER IBC

NOTES:
a. RATING FOR 2X8 DIMENSIONAL LUMBER ASSEMBLY: 2018 IBC TABLE 721.1(3) #21-1.1 & AMERICAN WOOD COUNCIL'S DCA 4 (COMPONENT ADDITIVE METHOD FOR CALCULCULATING AND DEMONSTRATING ASSEMBLY FIRE RESISTANCE)
b. STRUCTURAL SHALL SUPERCEDE IF STRUCT SHEATHING IS THICKER OR DIFFERENT TYPE THAN LISTED ABOVE. PROVIDE REQ MIN ABOVE.
c. REFER TO IBC TABLE FOR SCREW PATTERN

TOP OF FLOOR



BOTTOM OF FLOOR

F8

WOOD 2X6 LUMBER - 1HR - CORRIDOR
- 1-1/2" GYPCRETE TOPPING
- 3/4" SHEATHING MIN, SEE NOTE b.
- 2X6 WOOD JOISTS SPACED PER STRUCTURAL
- UNFACED FIBERGLASS INSULATION COMPLETELY FILLED IN CONCEALED CAVITY TO COMPLY WITH NFPA 13 CONCEALED SPACES.
- (2) LAYERS 5/8" TYPE X GWB. PER IBC

NOTES:
a. RATING FOR 2X6 DIMENSIONAL LUMBER ASSEMBLY: 2018 IBC TABLE 721.1(3) #21-1.1 & AMERICAN WOOD COUNCIL'S DCA 4 (COMPONENT ADDITIVE METHOD FOR CALCULCULATING AND DEMONSTRATING ASSEMBLY FIRE RESISTANCE)
b. STRUCTURAL SHALL SUPERCEDE IF STRUCT SHEATHING IS THICKER OR DIFFERENT TYPE THAN LISTED ABOVE. PROVIDE REQ MIN ABOVE.
c. REFER TO IBC TABLE FOR SCREW PATTERN

PRINTS ISSUED
04/17/2024 - CITY SUBMISSION

REVISIONS:

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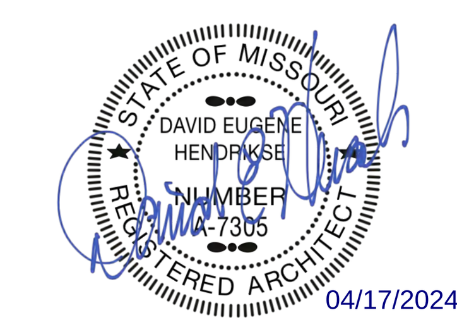


HOME2 SUITES BY HILTON

LEE'S SUMMIT, MO

SHEET TITLE
ASSEMBLIES - FLOOR/CEILING

PROJECT NUMBER: 22023

SHEET NUMBER:

G-103

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.

KAM INDUSTRIES LTD, DBA CORDECK — Tapmate II-FS-1, II-FS-2; Series KEB.

(2) **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. **Mineral and Fiber Boards*** — (Optional, not shown). Applied over concrete floor with no restriction on board thickness. When mineral and fiber boards are used, the unrestrained beam rating shall be increased by a minimum of 1/2 hr.
See Mineral and Fiber Board (CERZ) category for names of manufacturers.

8. **Roof Covering Materials*** — (Optional, not shown)Consisting of materials compatible with insulations described herein which provide Class A, B or C coverings. See Built-Up Roof Covering Materials in Building Materials Directory.

9. **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 10) when it is used.
ELASTIZELL CORP OF AMERICA

SIPLAST INC

VERMICULITE PRODUCTS INC

2. Blend 3.5 cu. ft. of Type NVC Concrete Aggregate* or Type NVS Vermiculite Aggregate* coat, 1/8 in. thickness beneath foamed plastic (Item 10) when used, 1 in. min topping thickness.
SIPLAST INC

VERMICULITE PRODUCTS INC

Vermiculite concrete may be covered with Roof Covering Materials (Item 8).

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 10A) when used. Cast dry density and 28—day min. compressive strength of 190 psi as determined with ASTM C495— 66.
AERIX INDUSTRIES — Cast dry density of 37 (+ or -) 3.0 pcf.

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.

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.

C. **Cellular Concrete-Roof Topping Mixture*** — Concentrate mixed with water and Portland cement per manufacturers specifications. 28-day min. compressive strength of 190 psi as determined with ASTM C495-66.
SIPLAST INC — Mix No. 1 or 2. Cast dry density of 32+3 (Mix No. 1) or 36+3 (Mix No. 2) pcf.

D. **Perlite Concrete** — 6 cu ft. of Perlite Aggregate* to 94 lb of Portland Cement and 1-1/2 pt air entraining agent. Min. thickness 2 in. as measured to the top surface of structural concrete or foamed plastic (Item 10A) when it is used.
See Perlite Aggregate (CFFX) in Fire Resistance Directory for names of manufacturers.

E. **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.

F. **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 10) when used , 1 in. min topping thickness.
SIPLAST INC

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

10. **Foamed Plastic*** — (optional — Not Shown) For use only with vermiculite (Item 9A) or cellular (Item 9C) concretes — 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 vermiculite concrete topping (Item 9A).
SIPLAST INC

VERMICULITE PRODUCTS INC

10A. **Foamed Plastic*** — For use only with cellular concrete. Nominal 24 by 48 in. polystyrene foamed plastic insulation boards having a density of 1.0 + 0.1 pcf encapsulated within cellular concrete topping (Item 9B). Each insulation board shall contain six nominal 3 in. diameter holes oriented in two rows of three holes each with the holes spaced 12 in. OC, transversely and 16 in. OC longitudinally.
See Foamed Plastic* (BRYX) category in Building Materials Directory or Foamed Plastic* (CCVW) category in Fire Resistance Directory for list of manufacturers.

11. **Foamed Plastic*** — (Optional, not shown). Polyisocyanurate roof insulation, applied over concrete floor with no restriction on insulation thickness. When polyisocyanurate insulation is used, the unrestrained beam rating shall be increased by a minimum of 1/2 hr.

12. **Metal Lath** — (Not Shown) — (Required with Z-146, Z-146T, Z146PC, Z-156, Z-156T and Z-156PC, otherwise optional) - Metal lath may be used to facilitate the spray application of Spray-Applied Fire Resistive Materials on steel bar joist and trusses. The diamond mesh, 3/8 in. expanded steel lath, 1.7 to 3.4 lb per sq yd is secured to both sides of each steel joist with No. 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 Spray-Applied Fire Resistive.
See **Foamed Plastic** (CCVW) category for list of manufacturers.

*** 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 2023-05-16

UL Product iQ®

UL Solutions

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

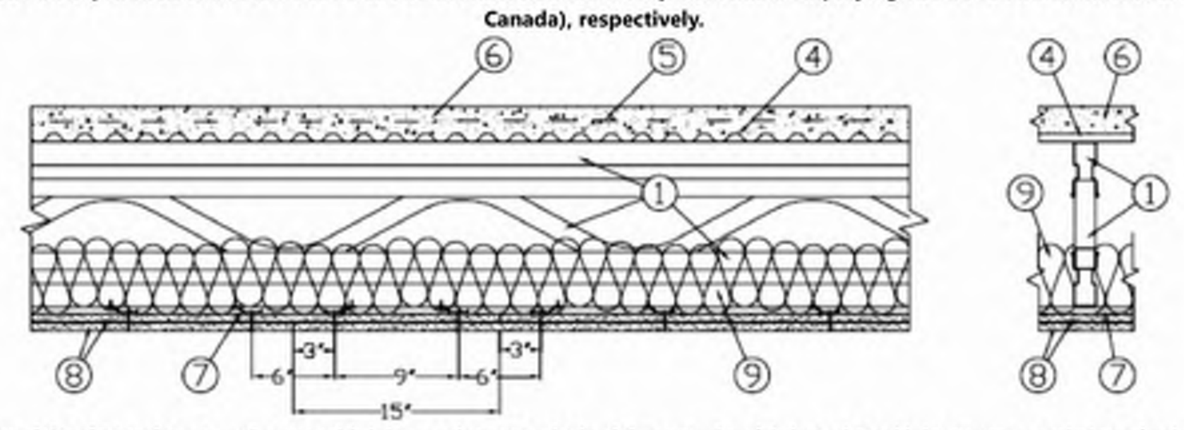
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. G566

February 3, 2022

Restrained Assembly Rating — 1 and 2 Hr (See item 8)
Unrestrained Assembly Rating — 1 and 2 Hr (See item 8)
Load Restriction — 98% (See Item 1)
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. **Structural Steel Members*** — (For use with joist spacing up to 24 in. OC max.) - Pre-fabricated steel joist system consisting of cold-formed, galvanized steel chord and web sections. Joist top and bottom chords min. 4 in. high by 1-11/16 in. wide by 18 ga. Joist 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 joist depth min. 12 in. Non-composite joists spaced a max of 24 in. OC with max. tensile strength of 30 ksi. Joist ends placed over and secured to Bearing Seats (Item 2) 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 GROUP LLC — Type Gateway Panel pre-fabricated steel joist system

1A. **Structural Steel Members*** — (For use when joist spacing is greater than 24 in. OC up to max. 48 in. OC) - Pre-fabricated steel joist system consisting of cold-formed, galvanized steel chord and web sections. Joist top and bottom chords min. 4 in. high by 1-11/16 in. wide by 18 ga. Joist 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 joist depth min. 12 in. Non-composite joists spaced a max of 48 in. OC to be designed per SJI specification with max. tensile strength of 30 ksi. Joist ends placed over and secured to Bearing Seats (Item 2) 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 GROUP LLC — Type Gateway Panel pre-fabricated steel joist system

2. **Bearing Seats*** — (Not Shown) — Galvanized steel tube, min. 1 in. by 2-1/2 in. by 13 ga., oriented vertically and welded to a galvanized steel plate. Bearing seats spaced to match joist spacing and attached to bearing supports by welding or screw attaching the steel plate to the bearing supports.
EISEN GROUP LLC — Type Gateway Panel bearing seat

3. **Bracing** — (Not Shown - for joist spacing up to 24 in. OC max.) — 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.

3A. **Bracing** — (Not Shown - In lieu of Item 3 when the joists are spaced more than 24 in. OC up to max. 48 in. OC) Galvanized channel-shaped steel sections, min. 1-1/2 in. wide with 1/2 in. long flanges, min 16 ga. Bracing attached to underside of joists with min. #10 by 3/4 in. long screws through joist bottom chord. Bracing installed in joist cavities by scoring, bending and flattening the ends to form a tab for attachment to joist top and bottom chords. Two pieces of bracing crossed, and tabs secured to joist chords with min. #10 by 3/4 in. long screws. Location and spacing of underside and crossed bracing to be specified on joist engineering.

4. **Steel Deck** — (For joist spacing up to 24 in. OC max.) - Min 9/16 in. deep, 28 MSG galv corrugated fluted steel deck, mechanically fastened to joists 12 in. OC. The concrete topping thickness shall be measured to the top plane of the steel deck.

4A. **Steel Deck** — (Used when joist spacing is greater than 24 in. OC up to 48 in. OC max.) - Min. 1 in deep, 26 gauge uncoated or galv. fluted or cellular steel floor units with no span exceeding 48 in. Mechanically fastened to joists 12 in. OC. The concrete topping thickness shall be measured to the top plane of the steel deck.

5. **Welded Wire Fabric** — (For joist spacing up to 24 in. OC max.) - Min. 6 by 6 in., W1.4 x W1.4.

5A. **Welded Wire Fabric** — (Used in lieu of Item 5 when joist spacing exceeds 24 in. OC up to 48 in. OC max) - Min. 6 by 6 in., W2.9 x W2.9.

6. **Normal or Lightweight Concrete** — Normal weight concrete, carbonate or siliceous aggregate, 150 + 3 pcf unit weight, 3000 psi compressive strength. Lightweight concrete, expanded shale, clay or slate aggregate by rotary kiln method, 117 + 3 pcf unit weight, 3000 psi compressive strength. Min. thickness is 2 in. as measured to the top plane of the steel deck.

6A. **Floor Topping Mixture*** — (For use as an alternate to Item 6) — Compressive strength to be 3000 psi min. Minimum thickness to be 1 in. as measured from the top plane of the deck. Refer to manufacturer's instructions accompanying the material for specific mix design.
MAXXON CORP — Types Maxxon Standard and Maxxon High Strength

6B. **Floor Mat Materials*** — (Optional) — Not Shown — Floor mat material loose laid over the crests of the steel deck. Flutes of the steel deck to be filled with Floor Topping Mixture* prior to the application of the Floor Mat Materials*. Refer to manufacturer's instructions regarding 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, Not Shown) - 0.015 in. thick PVC coated non-woven fiberglass mesh, 0.368 lbs/sq yd loose laid over the floor mat material.

6C. **Floor Topping Mixture*** — (For use as an alternate to Item 6 or 6A) — Compressive strength to be 2500 psi min. Minimum thickness to be 1 in. as measured from the top plane of the deck or floor mat material. Refer to manufacturer's instructions accompanying the material for specific mix design. An ethylene vinyl acetate adhesive may be applied to the steel deck prior to the installation of the floor topping mixture at a maximum application rate of 0.025 lbs./ft^2.
UNITED STATES GYPSUM CO — Types LRK, HSLRK, CSD

USG MEXICO S A DE C V — Types LRK, HSLRK, CSD

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.
UNITED STATES GYPSUM CO — Types SAM, LEVELROCK® Brand Sound Reduction Board, LEVELROCK® Brand Floor Underlayment SRM-25

6D. **Alternate Floor Topping Mixture*** — Compressive strength to be 3500 psi min. Minimum thickness to be 1 in. as measured from the top plane of the deck or the top plane of the **Floor Mat Material***. Refer to manufacturer's instructions accompanying the material for specific mix design. An ethylene vinyl acetate adhesive may be applied to the steel deck prior to the installation of the floor topping mixture at a maximum application rate of 0.025 lbs./ft^2.
HACKER INDUSTRIES INC — Firm-Fill CMD

Floor Mat Materials* — (Optional) — Floor mat material nom 5/64 in. (2 mm) thick adhered to steel deck with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of floor-topping mixture. Floor topping thickness a min 1 in. (25 mm) over the floor mat.
HACKER INDUSTRIES INC — Hacker Sound-Mat I

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/4 in. (6 mm) thick adhered to steel deck with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/4 in. (32 mm) of floor-topping mixture.
HACKER INDUSTRIES INC — Hacker Sound-Mat II

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/8 in. (3 mm) thick loose laid over the steel deck. Floor topping thickness shall be a min of 1 in. (25 mm).
HACKER INDUSTRIES INC — FIRM-FILL SCM 125

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/4 in. (6 mm) thick loose laid over the steel deck. Floor topping thickness shall be a min of 1 in. (25 mm).
HACKER INDUSTRIES INC — Type FIRM-FILL SCM 250

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 3/8 in. (10 mm) thick loose laid over the steel deck. Floor topping thickness shall be a min of 1-1/4 in. (32 mm).
HACKER INDUSTRIES INC — FIRM-FILL SCM 400

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 3/4 in. (19 mm) thick loose laid over the steel deck. Floor topping thickness shall be a min of 1-1/2 in. (38 mm).
HACKER INDUSTRIES INC — FIRM-FILL SCM 750

6E. As an alternate to Items 6-6D:
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. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design and minimum thickness recommended for use with eligible floor mat(s).

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.

7. **Resilient Channels** — (When joist spacing exceeds 24 in. OC, additional Supplemental Supports are required, see item 7D) - Resilient channels formed of 25 MSG galv steel, installed perpendicular to the steel joists, (Item 1), spaced 12 in. OC. Channels oriented opposite at base layer and face layer gypsum board butt joints (spaced 6 in. OC) as shown in the above illustration. Channel splices overlapped 4 in. beneath steel joists. Channels secured to each joist with min. #10 by 3/4 in. long screws.

7A. **Furring Channels** — (Not Shown - When joist spacing exceeds 24 in. OC additional Supplemental Supports are required, see item 7D) — As an alternate to Item 7, hat channels min 25 MSG galv steel, min 2-5/8 in. wide by min 7/8 in. deep, installed perpendicular to the joists (Item 1), spaced a max of 12 in. OC. Two courses of channel positioned 6 in. OC, 3 in. from each end of wallboard of base layer and face layer. Channel splices overlapped 4 in. beneath steel joists. Channels secured to each joist with No. 18 SWG steel wire double strand saddle ties. Channels tied together with double strand of No. 18 SWG steel wire at each end overlap.

7B. **Steel Framing Members* — For the 1 Hr Rating** — (When joist spacing exceeds 24 in. OC additional Supplemental Supports are required, see item 7E) - As an alternate to Item 7, Main runners nom 12 ft long, spaced 48 in. OC. Hanger wires on main runners spaced max 48 in. Ends of main runners at walls to rest on wall angle or channel. Cross tees, nom 4 ft long, installed perpendicular to main runners and spaced 16 in. OC. Additional cross tee required at each gypsum board end joint with butted gypsum board end joint centered between cross tees spaced 8 in. OC. The main runners and cross tees may be riveted or screw-attached to the wall angle or channel to facilitate the ceiling installation. The steel framing members shall be suspended min 2 in. below bottom of structural steel members.
For the 2 Hr Rating — (When joist spacing exceeds 24 in. OC, additional Supplemental Supports are required, see item 7E) - As an alternate to Item 7, Main runners nom 12 ft long, spaced 48 in. OC. Hanger wires on main runners spaced max 32 in. Ends of main runners at walls to rest on wall angle or channel. Cross tees, nom 4 ft long, installed perpendicular to main runners and spaced 16 in. OC. Additional cross tee required at each gypsum board end joint with butted end joint centered between cross tees spaced 8 in. OC. The main runners and cross tees may be riveted or screw-attached to the wall angle or channel to facilitate the ceiling installation. The steel framing members shall be suspended min 5 in. below bottom of structural steel members.

ARMSTRONG WORLD INDUSTRIES INC — Type DFR-8000

7C. **Alternate Steel Framing Members* — For the 1 Hr Rating** — (Not Shown - when joist spacing exceeds 24 in. OC additional Supplemental Supports are required, see item 7E) — As an alternate to Item 7. For use in corridors or rooms having a maximum width dimension of 14 ft. Steel framing members consist of grid runners, locking angle wall molding and hanger bars. Locking angle wall molding secured to walls with steel nails or screws spaced max 24 in. OC. Slots of locking angle wall molding parallel with hanger bars to be aligned with tabbed cutouts in bottom edge of hanger bars. Hanger bars spaced max 50 in. OC and suspended with No. 12 AWG steel hanger wires spaced max 48 in. OC. Adjoining lengths of hanger bar to overlap 12 in. and to be secured together and suspended by a shared hanger wire. A min clearance of 1/4 in. shall be maintained between the ends of the hanger bars and the walls. Grid runners cut-to-length and installed perpendicular to hanger bars and spaced max 16 in. OC with additional grid runners installed 8 in. OC at gypsum board end joints. Grid runners parallel with walls to be spaced max 16 in. from wall. Ends of grid runners to rest on and engage slots of locking angle wall molding with a clearance of 3/8 in. to 1/2 in. maintained between each end of the grid runner and the wall. Bulb of grid runner to be captured by tabbed cutouts in bottom edge of hanger bars.
ARMSTRONG WORLD INDUSTRIES INC — Type DFR-8000-SS

7D. **Supplemental Supports** — (Must be used with Items 7, and Item 7A when joist spacing is greater than 24 in. OC up to 48 in. OC max.) - Used to provide support for the resilient channels (Item 7) and furring channels (Item 7A). Supports are 3-5/8 in., 16 gauge or larger cold-rolled track sections with 2 in. legs, spaced at 12 in. OC. Each track with its legs oriented vertically is placed on top of and perpendicular to the joist's bottom chord and tied to the joist with a double strand of 18 SWG galvanized steel wire. Additional cross furred 4 in., 16 gauge C studs spaced at the mid span of the track to provide connection to Items 7, Item 7A and Item 7C. C-stud running perpendicular to the track screw attached to the 3-5/8 in. cold rolled track as per Structural steel Member manufacturer's instructions. Resilient Channel (Item 7) and the Furring Channel (Item 7A) attached to the C-stud as specified in Item 7 and Item 7A.

7E. **Supplemental Supports** — (Must be used with items 7B and 7C when joist spacing is greater than 24 in. OC up to 48 in. OC max.) - Used to provide support for the main runners. Supports are 3-5/8 in., 16 gauge or larger cold-rolled track sections with 2 in. legs spaced at 48 in OC when used with Item 7B for 1 hour rating, at 32 in OC when used with Item 7B for 2 hour rating, and at 48 in OC when used with Item 7C. Each track with its legs oriented vertically is placed on top of and perpendicular to the joist's bottom chord and tied to the joist with a double strand of 18 SWG galvanized steel wire. Steel Framing Member (Item 7B) and (Item 7C) hanger wire main runner connected to the Steel Framing Member (Item 1A) and the track section.

8. **Gypsum Board*** — For the 1 hr. rating; One layer of nom 5/8 in thick by 48 in wide boards installed with long dimension parallel to the joists. Attached to the resilient or furring channels (Items 7 and 7A) using 1 in. long type S bugled-head screws. Screws spaced a max of 8 in. OC along butted end-joints and in the field, and 3 in. from side edges of board. For the 2 hour rating; Two layers of nom 5/8 in. thick by 48 in. wide boards, installed with long dimension parallel to joists. Base layer attached to the resilient or furring channels using 1 in. long Type S bugle-head screws. Screws spaced a max of 12 in. OC along butted end-joints and in the field, and 1-1/2 in. from side edges of board. Face layer attached to the resilient or furring channels using 1-5/8 in. long Type S bugle-head screws spaced 12 in. OC along butted end-joints and 12 in. OC in the field, and 1-1/2 in. and 5-1/2 in. from side edges of board. Screws staggered from base layer screws. Face layer and base layer side joints min. 2-1/2 in. from joist centerline. Face layer side joints offset a minimum 24 in. from base layer side joints. Face layer end joints offset a minimum 15 in. from base layer end joints.
CERTAINTEED GYPSUM INC — Type C

UNITED STATES GYPSUM CO — Type C

USG BORAL DRYWALL SFZ LLC — Type C

8A. **Gypsum Board* — For the 1 Hr Rating** — Nom 5/8 in. thick, 48 in. wide gypsum panels. When **Steel Framing Members** (Item 7B) are used, gypsum panels installed with long dimension perpendicular to cross tees with side joints centered along main runners and with end joints centered between cross tees spaced 8 in. OC. Prior to installation of the gypsum board sheets, backer strips consisting of nom 7-3/4 in. wide pieces of gypsum board are to be laid atop the cross tee flanges and centered over each butted end joint location. The backer strips are to be secured to the flanges of the cross tees at opposite corners of the backer strip to prevent the backer strips from being uplifted during screw-attachment of the gypsum board sheets. Gypsum board fastened to cross tees with drywall screws spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board. The butted end joints are to be secured to the backer strip with No. 10 by 1-1/2 in. long Type G laminating screws located 1 in. from each side of the butted end joint and spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board.
For the 1 Hr Rating — Nom 5/8 in. thick, 48 in. wide gypsum panels. When alternate **Steel Framing Members*** (Item 7C) are used, gypsum board sheets installed with long dimension (side joints) perpendicular to the grid runners with the end joints staggered min 4 ft and centered between grid runners which are spaced 8 in. OC. Prior to installation of the gypsum board sheets, backer strips consisting of nom 7-3/4 in. wide by 48 in. long pieces of gypsum board are to be laid atop the grid runner flanges and centered over each butted end joint location. The backer strips are to be secured to the flanges of the grid runners at opposite corners of the backer strip to prevent the backer strips from being uplifted during screw-attachment of the gypsum board sheets. Gypsum board fastened to grid runners with drywall screws spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board. The butted end joints are to be secured to the backer strip with No. 10 by 1-1/2 in. long Type G laminating screws located 1 in. from each side of the butted end joint and spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board.

For the 2 Hr Rating — Nom 5/8 in. thick, 48 in. wide gypsum panels. When **Steel Framing Members** (Item 7B) are used, base layer installed with long dimension perpendicular to resilient or furring channels (Items 7 and 7A). Gypsum panels secured with 1-1/4 in. long Type S bugle-head screws spaced 12 in. OC in both the field and the perimeter, and 1-1/2 in. from side edges of the board. Face layer installed with long dimension perpendicular to resilient or furring channels with joints offset 24 in. from base layer. Gypsum panels secured with 1-5/8 in. long Type S bugle-head screws spaced 8 in. OC in both the field and the perimeter, and 1-1/2 in. from side edges of the board. At the butt joint 1-1/2 in. long Type G screws to be installed to attach face layer to base layer. Type G screws spaced 8 in. OC and 1-1/2 in. from side edges of the board.

CERTAINTEED GYPSUM INC — Type C

CGC INC — Type ULIX

UNITED STATES GYPSUM CO — Type C, ULIX

USG BORAL DRYWALL SFZ LLC — Type C

8B. **Gypsum Board*** — For the 1 hr. rating; One layer of nom 5/8 in thick by 48 in wide boards installed with long dimension parallel to the joists. Attached to the resilient or furring channels (Items 7 and 7A) using 1 in. long type S bugled-head screws. Screws spaced a max of 8 in. OC along butted end-joints and in the field, and 3 in. from side edges of board. For the 2 hour rating; Two layers of nom 5/8 in. thick by 48 in. wide boards, installed with long dimension parallel to joists. Base layer attached to the resilient or furring channels (Items 7 and 7A) using 1 in. long Type S bugle-head screws. Screws spaced a max of 12 in. OC along butted end-joints and in the field, and 1-1/2 in. from side edges of board. Face layer attached to the resilient or furring channels using 1-5/8 in. long Type S bugle-head screws spaced 8 in. OC along butted end-joints and 8 in. OC in the field, and 1-1/2 in. and 5-1/2 in. from side edges of board. Screws staggered from base layer screws. Face layer and base layer side joints min. 2-1/2 in. from joist centerline. Face layer side joints offset a minimum 24 in. from base layer side joints. Face layer end joints offset a minimum 15 in. from base layer end joints.
UNITED STATES GYPSUM CO — ULIX

CGC INC — Type ULIX

9. **Batts and Blankets*** — Glass fiber insulation, nominal 3-1/2 in. thick, bearing the UL Classification Marking for Surface Burning Characteristics and/or Fire Resistance. Insulation fitted in the concealed space, draped over the resilient channel/gypsum panel ceiling membrane. See **Batts and Blankets** (BKNV or BZJZ) Categories for names of Classified companies.

10. **Finishing System** — (Not Shown) — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum wallboard.

*** 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 2022-02-03

PRINTS ISSUED
04/17/2024 - CITY SUBMISSION

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STATE OF MISSOURI
DAVID EUGENE HENDRIKSE
NUMBER A-7305
REGISTERED ARCHITECT
04/17/2024

HOME2 SUITES BY HILTON

LEE'S SUMMIT, MO

SHEET TITLE
UL ASSEMBLIES - D916 / G566

PROJECT NUMBER: 22023

SHEET NUMBER:

G-201

PRINTS ISSUED
04/17/2024 - CITY SUBMISSION

REVISIONS:

UL Product iQ®

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.
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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

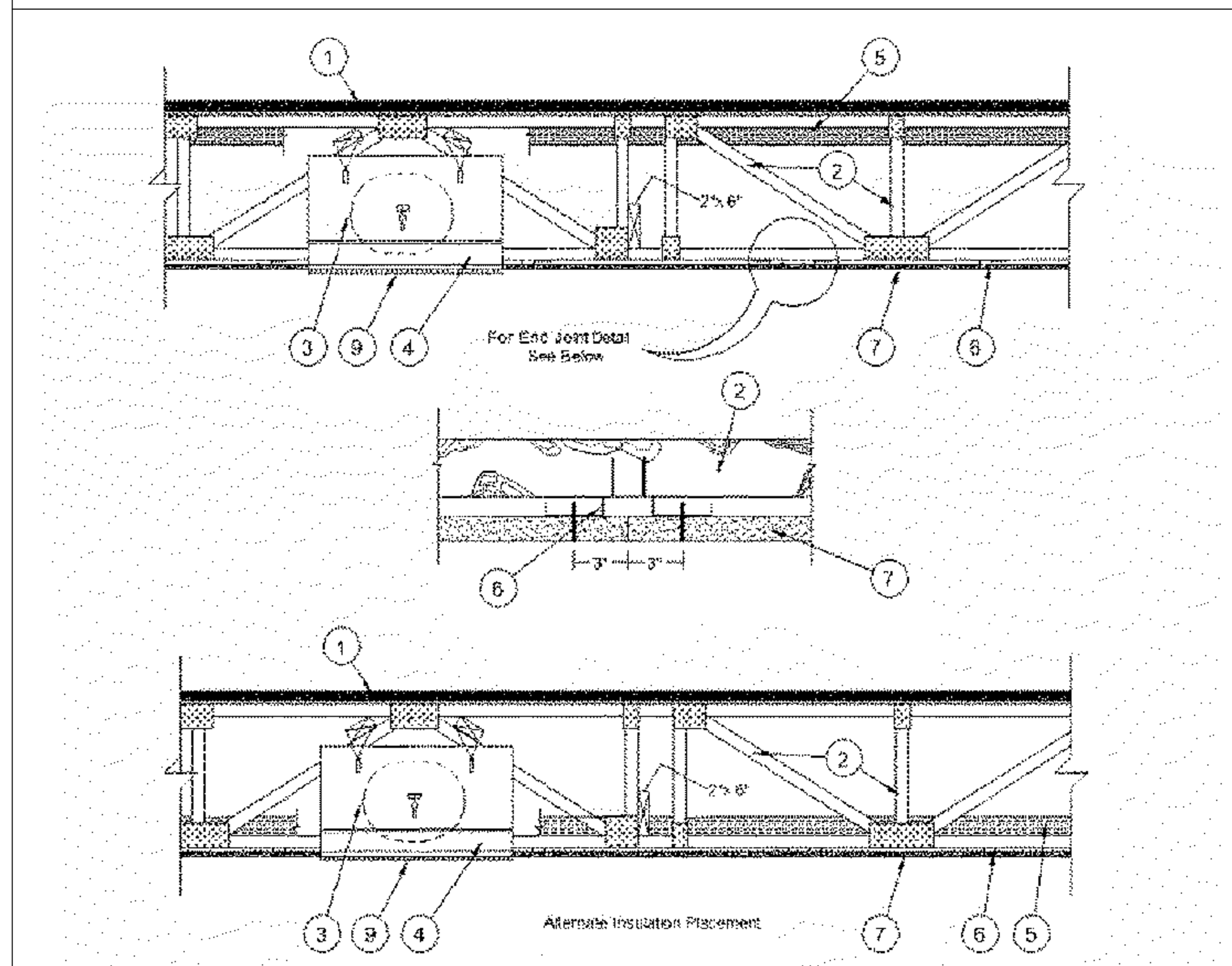
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. L546

October 03, 2023

Unrestrained Assembly Rating — 1 Hr
Finish Rating — 24 or 25 Min (See Item 5)
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 one of the following:

System No. 1

Subflooring — Min 15/32 or 19/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered.

Finish Flooring - Floor Topping Mixture* — Min 3/4 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, Not Shown) - 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

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick plywood or min 7/16 in. thick oriented strand board (OSB) wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered.

Finish Floor — Mineral and Fiber Board* — Min 1/2 in. thick, supplied in sizes ranging from 3 ft by 4 ft to 8 ft by 12 ft. All joints to be staggered a min of 12 in. with adjacent sub-floor joints.

HOMASOTE CO — Type 440-32 Mineral and Fiber Board

System No. 3

Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with joints staggered.

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

Finish Flooring — Floor Topping Mixture* — Min 1-1/2 in. thickness of floor topping mixture having a min compressive strength of 1000 psi and a cast density of 100 plus or minus 5 pcf. Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mixture shall consist of 1.4 cu feet of preformed foam concentrate to 94 lbs Type I Portland cement, 300 lbs of sand with 5-1/2 gal of water.

ELASTIZELL CORP OF AMERICA — Type FF

System No. 4

Subflooring — Min 15/32 or 19/32 in. thick wood structural panels, min grade C-D or Sheathing. Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered.

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.

FORMULATED MATERIALS LLC — Types FR-25, FR-30, and SiteMix

Alternate Floor Mat Material* — (Optional) Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

FORMULATED MATERIALS LLC — Types M1, M2, M3, Elite, Duo, R1, and R2

System No. 5

Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered.

Floor Mat Materials* — (Optional) — Floor mat material nom 5/64 in. (2 mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1 in. of floor-topping mixture.

HACKER INDUSTRIES INC — Type Hacker Sound-Mat.

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/4 in. (6 mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/4 in. (32 mm) of floor-topping mixture.

HACKER INDUSTRIES INC — Type Hacker Sound-Mat II.

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/8 in. (3mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 3/4 in. (19 mm)

HACKER INDUSTRIES INC — FIRM-FILL SCM 125

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/4 in. (6 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1 in. (25 mm)

HACKER INDUSTRIES INC — Type FIRM-FILL SCM 250, Quiet Qurl 55/025

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 3/8 in. (10 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/4 in. (32mm)

HACKER INDUSTRIES INC — FIRM-FILL SCM 400, Quiet Qurl 60/040

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 3/4 in. (19 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/2 in. (38mm)

HACKER INDUSTRIES INC — Type FIRM-FILL SCM 750, Quiet Qurl 65/075

Metal Lath — (Optional) — For use with 3/8 in. (10 mm) floor mat materials, 3/8 in. expanded steel diamond mesh, 3.4 lbs/sq yd placed over the floor mat material. Hacker Floor Primer to be applied prior to the placement of the metal lath. When metal lath is used, floor topping thickness a nom 1-1/4 in. over the floor mat.

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1100 psi. Mixture shall consist of 6.8 gal of water to 80 lbs of floor topping mixture to 1.9 cu ft of sand.

HACKER INDUSTRIES INC — Firm-Fill Gypsum Concrete, Firm-Fill 2010, Firm-Fill 3310, Firm-Fill 4010, Firm-Fill High Strength, Gyp-Span Radiant

System No. 6

Subflooring — Min 15/32 or 19/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered.

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

Finish Flooring — Floor Topping Mixture* — Min 3/4 or 1 in. thickness of floor topping mixture for 19/32 or 15/32 in. thick wood structural panels respectively, having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

ARCOSA SPECIALTY MATERIALS — AccuCrete® Types NexGen, Green, Prime and PrePour, AccuRadiant®, AccuLevel® Types G40, G50 and SD30

Alternate Floor Mat Material* — (Optional) — Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor. Floor topping shall be a min of 3/4 in. or 1 in. thickness of floor topping for 19/32 or 15/32 in. thick wood structural panels respectively.

ARCOSA SPECIALTY MATERIALS — AccuQuiet® Types D13, D-18, D25, DX38, EM.125, EM.125S, EM.250, EM.250S, EM.375, EM.375S, EM.750, and EM.750S.

System No. 7

Subflooring — 15/32 or 19/32 in. thick wood structural panels, min. grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.

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

Finish Flooring — Floor Topping Mixture* — Compressive strength to be 2100 psi min. Thickness to be 3/4 in. min for 19/32 in thick wood structural panels or 1 in. min. for 15/32 in thick wood structural panels. Refer to manufacturer's instructions accompanying the material for specific mix design. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design and minimum thickness recommended for use with eligible floor mat(s).

System No. 8

Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with joints staggered.

Vapor Barrier — (Optional) — Nom 0.010 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 1800 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

UNITED STATES GYPSUM CO — Types LRK, HSLRK, CSD

USG MEXICO S A DE C V — Types LRK, HSLRK, CSD

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.

UNITED STATES GYPSUM CO — Types SAM, LEVELROCK® Brand Sound Reduction Board, LEVELROCK® Brand Floor Underlayment SRM-25

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

GRASSWORX L L C — SC Types

System No. 9

Subflooring — Min 23/32 in. thick T&G wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with end joints staggered 4 ft. Panels secured to trusses with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

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. 10

Subflooring — Min 15/32 or 19/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered.

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

Finish Flooring — Floor Topping Mixture* — Min 3/4 or 1 in. thickness of floor topping mixture for 19/32 or 15/32 in. thick wood structural panels respectively, having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

DEPENDABLE LLC — GSL M3.4, GSL K2.6, GSL-CSD, GSL RH, and SKIMFLOW.

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 — Type 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 — Type 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 — Type 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 — Type 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 — Quiet Qurl 55/025 MT and Quiet Qurl 55/025 N MT

System No. 11

Subflooring — Min 15/32 or 19/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered.

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. 12

Subflooring — Min 15/32 or 19/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered.

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

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. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design and minimum thickness recommended for use with eligible floor mat(s).

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.

System No. 13

Subflooring — Min 15/32 or 19/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered.

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

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.

GRASSWORX L L C — SC Types

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. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design and minimum thickness recommended for use with eligible floor mat(s).

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.

System No. 14

Subflooring — Subflooring — Min 23/32 in. thick T&G wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with end joints staggered.

Finish Floor - Building Units* — Min 1/2 in. thick magnesium oxide panels installed parallel, perpendicular, or diagonally to trusses with panel edges offset a min of 4 in. between subfloor and magnesium oxide panels. Panels secured to subfloor with construction adhesive and corrosion-resistant fasteners spaced 6 in. OC around panel edges and 12 in. OC in the field of the panel. Fasteners must be placed no closer than 1/2 in. from all panel edges and no closer than 2 in. from panel corners.

HUBER ENGINEERED WOODS LLC — Type 1/2 in. and 5/8 in. Square Edge Exacor® Board, Type ¾ in. T&G Exacor® Board.

2. **Trusses —** Parallel chord trusses spaced a max of 24 in. OC fabricated from nom 2 by 4 lumber, with lumber oriented vertically or horizontally. Min truss depth is 12 in. when dampers are not used and 18 in. when dampers are used. Truss members secured together with min 0.036 in. thick galv steel plates. Plates have 5/16 in. long teeth projecting perpendicular to the plane of the plate. The teeth are in pairs facing each other (made by the same punch), forming a split tooth type plate. Each tooth has a chisel point on its outside edge with these points being diagonally opposite each other for each pair. The top half of each tooth has a twist for stiffness. The pairs are repeated on approximately 7/8 in. centers with four rows of teeth per inch of plate width.

3. **Air Duct* —** (Optional) — Any UL Class 0 or Class 1 flexible air duct installed in accordance with the instructions provided by the damper manufacturer

4. **Ceiling Damper* —** (Optional. To be used with Air Duct Item 3) — For use with min 18 in. deep trusses. Max nom area shall be 324 sq in. Max square size shall be 18 in. by 18 in. Rectangular sizes not to exceed 324 sq in. with a max width of 18 in. Max height of damper shall be 14 in. Aggregate damper openings shall not exceed 162 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille (Item 9) shall be installed in accordance with installation instructions.
C&S AIR PRODUCTS — Model RD-521

POTTORFF — Model CFD-521

4A. **Alternate Ceiling Damper* —** For use with min 18 in. deep trusses. Max nom area shall be 196 sq in. Max square size shall be 14 in. by 14 in. Rectangular sizes not to exceed 196 sq in. with a max width of 26 in. Max height of damper shall be 7 in. Aggregate damper openings shall not exceed 98 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille (Item 9) not to exceed 144 $in.^2$ shall be installed in accordance with installation instructions.
C&S AIR PRODUCTS — Model RD-521-BT

POTTORFF — Model CFD-521-BT.

4B. **Alternate Ceiling Damper* —** (Optional. To be used with Air Duct Item 3) — For use with min 18 in. deep trusses. Max nom area shall be 256 sq in. with the length not to exceed 24 in. and the width not to exceed 20 in. Max height of damper shall be 17 in. Aggregate damper openings shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille (Item 9) shall be installed in accordance with installation instructions.
C&S AIR PRODUCTS — Model RD-521-IP, RD-521-NP

POTTORFF — Models CFD-521-IP, CFD-521-NP

4C. **Alternate Ceiling Damper* —** For use with min 18 in. deep trusses. Max nom area shall be 144 sq in. with the length not to exceed 14 in. and the width not to exceed 12 in. Max height of damper shall be 17-7/8 in. Aggregate damper openings shall not exceed 74 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille (Item 9) shall be installed in accordance with installation instructions.
C&S AIR PRODUCTS — Model RD-521-90, RD-521-NP90

POTTORFF — Models CFD-521-90, CFD-521-90NP

4D. **Alternate Ceiling Damper* —** For use with min. 18 in. deep trusses. Max. nom area shall be 349 sq in. Max. overall length and width shall not exceed 18-11/16 in. by 18-11/16 in. with max. 16 in. by 16 in. register opening. Aggregate damper openings shall not exceed 175 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. An aluminum or steel grille (Item 9) shall be installed in accordance with installation instructions.
MIAMI TECH INC — Model Series RxCRD, RxCRDS or RxCRPD

4E. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 75 sq in. with the length not to exceed 8-9/16 in. and the width not to exceed 8-3/4 in. Max height of damper shall be 9-7/8 in. Aggregate damper openings shall not exceed 38 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturers installation instructions provided with the damper. A plastic grille (Item 9) shall be installed in accordance with installation instructions.
DELTA ELECTRONICS INC — Models CRD2, GBR-CRD, ITG-CRD

4F. **Alternate Ceiling Damper* —** For use with min 18 in. deep trusses. Max nom area shall be 324 sq in. Max square size shall be 18 in. by 18 in. Rectangular sizes not to exceed 324 sq in. with a max length of 20 in. and a max width of 22 in. Max height of damper shall be 14 in. Aggregate damper openings shall not exceed 154 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturer's installation instructions provided with the damper. An aluminum or steel grille (Item 9) shall be installed in accordance with installation instructions.
UNITED ENERTECH CORP — Type C-S/R-WT or C-S/R-WTP (Max nom area 324 sq. in.) or C-S/R-WTS or C-S/R-WTPS (Max nom area 162 sq. in.)

4G. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 75 sq in. with the length not to exceed 9-1/4 in. and the width not to exceed 9-3/4 in. Max height of damper shall be 9-7/8 in. Aggregate damper openings shall not exceed 45 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 9) shall be installed in accordance with installation instructions.
DELTA ELECTRONICS INC — Model SIG-CRD

4H. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 131 sq in. with the length not to exceed 11-1/16 in. and the width not to exceed 11-7/8 in. Aggregate damper openings shall not exceed 66 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 9) shall be installed in accordance with installation instructions.
DELTA ELECTRONICS INC — Model SMT-CRD

4I. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 103 sq in. with the length not to exceed 10-1/8 in. and the width not to exceed 10-1/8 in. Aggregate damper openings shall not exceed 52 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 9) shall be installed in accordance with installation instructions.
PANASONIC CORPORATION, PANASONIC CORPORATION OF NORTH AMERICA — Model PC-RD05C5

4J. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 113 sq in. with the length not to exceed 10-1/8 in. and the width not to exceed 11-1/8 in. Aggregate damper openings shall not exceed 57 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 9) shall be installed in accordance with installation instructions.
BROAN-NUTONE L L C — Model RDFUWT

4K. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 79 sq in. with the length not to exceed 10 in. and the width not to exceed 7-15/16 in. Aggregate damper openings shall not exceed 40 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A metallic grille (Item 9) shall be installed in accordance with installation instructions.
BROAN-NUTONE L L C — Models RDJ1 and RDH

4L. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 87 sq in. with the length not to exceed 9 in. and the width not to exceed 9-11/16 in. Aggregate damper openings shall not exceed 44 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 9) shall be installed in accordance with installation instructions.
BROAN-NUTONE L L C — Model RDMWT

4M. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 87 sq in. with the length not to exceed 9 in. and the width not to exceed 9-11/16 in. Aggregate damper openings shall not exceed 44 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 9) shall be installed in accordance with installation instructions.
BROAN-NUTONE L L C — Model RDMWT2

4N. **Alternate Ceiling Damper* —** (Optional. To be used with Air Duct Item 3) — For use with min 18 in. deep trusses. Max nom 21 in. long by 18 in. wide, fabricated from galvanized steel. Plenum box max size nom 21 in. long by 18 in. wide by 14 in. high (inner dimension) fabricated from either galvanized steel or min 1 in. thick Listed Duct Board bearing the UL Listing Marking having a min R-Value of 4.3. Installed in accordance with the instructions provided by the manufacturer. Max damper openings not to exceed 180 sq in. per 100 sq ft of ceiling area.
GREENHECK FAN CORP — Model CRD-1WT

4O. **Alternate Ceiling Damper* —** (Optional. To be used with Air Duct Item 3) — For use with min 18 in. deep trusses. Max nom 12 in. long by 12 in. wide with an 8 in. diameter damper, fabricated from galvanized steel. Installed in accordance with the instructions provided by the manufacturer. Max damper openings not to exceed 72 sq in. per 100 sq ft of ceiling area. .
GREENHECK FAN CORP — Model CRD-2WT

4P. **Alternate Ceiling Damper* —** (Optional. To be used with Air Duct, Item 3) — For use with min 18 in. deep trusses. Max nom 18 in. long by 18 in. wide, fabricated from galvanized steel. Installed in accordance with the instructions provided by the manufacturer. Max damper openings not to exceed 162 sq in. per 100 sq ft of ceiling area.
RUSKIN COMPANY — Model CFD7T, CFD7T-END-BT, CFD7T-90-BT, CFD7T-ST-BT, CFD7T-SB, CFD7T-R6-DB, or CFD7T-IB6

4Q. **Alternate Ceiling Damper* —** (Optional. To be used with Air Duct, Item 3) — For use with min 18 in. deep trusses. Max 8 in. diameter damper, fabricated from galvanized steel. Installed in accordance with the instructions provided by the manufacturer. Max damper openings not to exceed 25 sq in. per 100 sq ft of ceiling area.
RUSKIN COMPANY — Model CFDR7T

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04/17/2024

HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
UL ASSEMBLIES - L546

PROJECT NUMBER: 22023

SHEET NUMBER:
G-202

4R. **Alternate Ceiling Damper* —** (Optional, to be used with Air Duct Item 3) For use with min 18 in. deep trusses. Max nom 11-1/8 in. long by 13-5/8 in. wide, fabricated from galvanized steel. Installed in accordance with the instructions provided by the manufacturer. Max damper openings not to exceed 76 sq in. per 100 sq ft of ceiling area.
GREENHECK FAN CORP — Model CRD-310WT

4S. **Damper* —** (Optional, to be used with Air Duct Item 3) For use with min 18 in. deep trusses. Max nom 12-3/8 in. long by 14-1/2 in. wide, fabricated from galvanized steel. Installed in accordance with the instructions provided by the manufacturer. Max damper openings not to exceed 90 sq in. per 100 sq ft of ceiling area.
GREENHECK FAN CORP — Model CRD-320WT

4T. **Alternate Ceiling Damper* —** (Optional, to be used with Air Duct Item 3) For use with min 18 in. deep trusses. Max 12 in. diameter damper within max 15 in. by 15 in. register box with max 12 in. by 12 in. register opening fabricated from galvanized steel. Aggregate area of the register opening(s) through the ceiling membrane shall not exceed 72 sq. in. per 100 sq. ft. of ceiling area. Damper assembly installed in accordance with the manufacturer's installation instructions.
RUSKIN COMPANY — Model CFD7T-SR

4U. **Alternate Ceiling Damper* -** (Optional, to be used with Air Duct Item 3) For use with min 18 in. deep trusses. Maximum 20 in. long by 18 in. wide by 2-1/8 in. high, fabricated from galvanized steel. Plenum box maximum size nom. 21 in. long by 18 in. wide by 16 in. high fabricated from either galvanized steel or Classified Air Duct Materials bearing the UL Class 0 or Class 1 rigid air duct material. Installed in accordance with the instructions provided by the manufacturer. Max damper openings not to exceed 180 sq in. per 100 sq ft of ceiling area.

NAILOR INDUSTRIES INC — Types 0755, 0755A, 0756, 0756D, 0757, 0757D, 0757FP, 0757DFP, 0763

SAFE AIR DOWCO — 0455, 0455A, 0456, 0456D, 0457, 0457D, 0457-DB, 0457-CB, 0463-FB, 0457-EB, 0463-GB, 0463

4V. **Alternate Ceiling Damper* —** (Optional, to be used with Air Duct Item 3) For use with min 18 in. deep trusses. Max nom 10-3/8 in. long by 10-3/8 in. wide, fabricated from galvanized steel. Installed in accordance with the instructions provided by the manufacturer. Max damper openings not to exceed 54 sq in. per 100 sq ft of ceiling area.

GREENHECK FAN CORP — Model CRD-300WT

5. **Batts and Blankets* —** (Optional with Items 7 and 7B; Required with Item 7A) — Glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. When the resilient channels (Item 6) or furring channels (Item 6A, 6O) are spaced 16 in. OC, the insulation shall be a max of 3-1/2 in. thick, and shall be secured against the subflooring with staples at 12 in. OC or held suspended in the concealed space with 0.090 in. diam galv steel wires attached to the wood trusses at 12 in. OC. When the resilient channels (Item 6) or furring channels (Item 6A, 6O) are spaced a max of 12 in. OC or when the Steel Framing Members (Item 6B) are used, there is no limit in the overall thickness of insulation, and the insulation can be secured against the subflooring, held suspended in the concealed space or draped over the resilient or furring channels (or Steel Framing Members) and gypsum panel membrane. When **Steel Framing Members** (Item 6C) are used, max 3-1/2 in. thick insulation shall be draped over the furring channels (Item 6Ca) and gypsum board ceiling membrane, and friction-fitted between trusses and Steel Framing Members (Item 6Cd). The finished rating has only been determined when the insulation is secured to the subflooring.

5A. **Fiber, Sprayed* —** (Dry Dense Packed 100% Borate Formulation) — As an alternate to Item 5 — When used, the resilient channel and gypsum board attachment is modified as specified in Items 6 and 7 and wire mesh (Item 10) shall be attached to the furring channels to facilitate installation of the material. The finished rating when Fiber, Sprayed is used has not been determined. 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. When Item 5A (Fiber, Sprayed) is used, two layers of gypsum board required as described in Item 7. Not evaluated for use with Items 6B, 6C or 6D.
APPLEGATE GREENFIBER ACQUISITION LLC — Insulmax & SANCTUARY to be used with dry application only.

5B. **Fiber, Sprayed* —** (Loose Fill 100% Borate Formulation) — As an alternate to Items 5 and 5A — The finished rating when Fiber, Sprayed is used has not been determined. The fiber is applied without water or adhesive at a minimum dry density of 0.5 lb/ft^3 and at a max thickness of 3-1/2 in., in accordance with the application instructions supplied with the product. Wire mesh (Item 10) shall be attached to the furring channels to facilitate installation of the material. When Item 5B (Fiber, Sprayed) is used, two layers of gypsum board required as described in Item 7. Not evaluated for use with Items 6B, 6C or 6D.
APPLEGATE GREENFIBER ACQUISITION LLC — Insulmax & SANCTUARY to be used with dry application only.

5C. **Cavity Insulation - Batts and Blankets* or Fiber, Sprayed* —** (Required for Item 7C, As described above in Items 5 through 5B) — Min. 3-1/2 in thick with no limit on maximum thickness fitted in the concealed space, draped over the resilient channel (Item 6I)/gypsum board (Item 7C) ceiling membrane.

6. **Resilient Channels —** Resilient channels, formed of 25 MSG thick galv steel, spaced 16 in. OC perpendicular to trusses. When insulation (Items 5, 5A, 5B) is draped over the resilient channel/gypsum board ceiling membrane, the spacing shall be reduced to 12 in. OC. Channels secured to each truss with 1-1/4 in. long Type S bugle head steel screws. Channels overlapped 4 in. at splices. Two channels, spaced 6 in OC, oriented opposite each gypsum board end joint as shown in the above illustration. Additional channels shall extend 6 in beyond each side edge of board.

6A. **Steel Framing Members* —** (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, 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 16 in. OC perpendicular to trusses. When batt insulation (Items 5) is draped over the resilient channel/gypsum board ceiling membrane, the resilient channel spacing shall be reduced to 12 in. OC. Channels secured to trusses 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 trusses (Item 2). Clips spaced 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to alternating trusses with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. RSIC-Si-X secured with No. 10 x 3-1/2 in. screws. RSIC-V and RSIC-V (2.75) clips secured to alternating trusses with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. RSIC-1, RSIC-Si-X, and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (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 gypsum board butt joints, as described in Item 7.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-Si-X, RSIC-1 (2.75), RSIC-V (2.75)

6B. **Alternate Steel Framing Members —** (Not Shown) — As an alternate to Items 6 and 6A, 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 48 in. OC. Hanger wires to be located adjacent to main runner/cross tee intersections. Hanger wires wrapped and twist-tied on 16d nails driven in to side of trusses at least 5 in. above the bottom face.

b. **Cross Tees or Channels —** Nom 4 ft long cross tees, with 15/16 in. or 1-1/2 in. wide face, or nom 4 ft long cross channels, with 1-1/2 in. wide face, either spaced 16 in. OC, installed perpendicular to the main runners. Additional cross tees or channels used 8 in. from each side of butted gypsum board end joints. The cross tees or channels may be riveted or screw-attached to the wall angle or channel to facilitate the ceiling installation.

c. **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.

6C. **Steel Framing Members* —** (Not Shown) — As an alternate to Items 6, 6A and 6B.
a. **Furring Channels —** Hat-shaped furring channels, 7/8 in. deep by 2-5/8 in. wide at the base and 1-1/4 in. wide at the face, formed from No. 25 ga. galv steel, spaced max. 16 in. OC perpendicular to trusses and Cold Rolled Channels (Item 6Cb). Furring channels secured to Cold Rolled Channels at every intersection with a 1/2 in. pan head self-drilling screw through each furring channel leg. Ends of adjoining channels overlapped 4 in. and tied together with two double strand No. 18 SWG galv steel wire ties, one at each end of overlap. Supplemental furring channels at base layer and outer layer gypsum board butt joints are not required. Batts and Blankets draped over furring channels as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 7.

b. **Cold Rolled Channels —** 1-1/2 in. by 1/2 in., formed from No. 16 ga. galv steel, positioned vertically and parallel to trusses, friction-fitted into the channel caddy on the Steel Framing Members (Item 6Cd). Adjoining lengths of cold rolled channels lapped min. 6 in. and wire-tied together with two double strand 18 SWG galv steel wire ties, one at each end of overlap.

c. **Blocking —** Where truss design does not permit direct, full contact of the hanger bracket, a piece of nominal 2 by 4 in. lumber (blocking), min. 6 in. long to permit full contact of the hanger bracket, to be secured vertically to the side of the truss (Item 2) at the top and bottom of the blocking at each Steel Framing Member (Item 6Cd) location.

d. **Steel Framing Members* —** Hangers spaced 48 in. OC. max along truss, and secured to the Blocking (Item 6Cc) on alternating trusses with a single 5/16 in. by 2 in. hex head lag bolt or four #6 1-1/4 in. drywall screws through mounting hole(s) on the hanger bracket. The two 1/4 in. long steel teeth on the hanger are embedded in the side of the blocking. Hanger positioned on blocking and leveling bolt height adjusted such that furring channels are flush with bottom of trusses before gypsum board installation. Spring gauge of hanger chosen per manufacturer\'s instructions.
KINETICS NOISE CONTROL INC — Type ICW.

6D. **Steel Framing Members* —** (Not Shown) — As an alternate to Items 6, 6A, 6B and 6C.
a. **Furring Channels —** Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced 16 in. OC perpendicular to wood structural members. When insulation, Items 5 or 5A is applied over the furring channel/gypsum panel ceiling membrane, the furring channel spacing shall be reduced to 12 in. OC. Channels secured to trusses as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galv steel wire near each end of overlap.

b. **Steel Framing Members* —** Used to attach furring channels (Item a) to trusses (Item 2). Clips spaced 48 in. OC, and secured to the bottom chord of alternating trusses with two No. 8 x 2-1/2 in. course drywall screws, one through the hole at each end of the clip. When insulation, Items 5 or 5A is applied over the furring channel/gypsum panel ceiling membrane, the clip spacing shall be reduced to 24 in. OC and secured to consecutive trusses. Furring channels are friction fitted into clips. 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 gypsum board butt joints, as described in Item 7. Two layers of gypsum board required as described in Item 7. Not evaluated for use with Item 5B.
KINETICS NOISE CONTROL INC — Type Isomax.

6E. **Steel Framing Members* —** (Optional, Not Shown) — Used as an alternate method to attach min. 1/2 in. deep resilient channels (Item 6) to wood trusses (Item 2). Resilient channels are friction fitted into clips, and then clips are secured to the bottom chord of each wood truss with a min. 1-3/4 in. long Type S bugle head steel screw through the center hole of the clip and the resilient channel flange. Adjoining resilient channels are overlapped 4 in. under trusses. The clip flange is opened slightly to accommodate the two overlapped channels. Additional clips required to hold resilient channel that supports the gypsum board butt joints, as described in Item 7.
KEENE BUILDING PRODUCTS CO INC — Type RC Assurance.

6F. **Steel Framing Members —** (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 16 in. OC perpendicular to trusses. When batt insulation (Items 5) is draped over the resilient channel/gypsum board ceiling membrane, the resilient channel spacing shall be reduced to 12 in. OC. Channels secured to trusses 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 trusses (Item 2). Clips spaced 48 in. OC. GenieClips secured to alternating joists with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. When insulation, Items 5 is applied over the furring channel/gypsum panel ceiling membrane, the clip spacing shall be reduced to 24 in. OC and secured to consecutive trusses. Furring channels are friction fitted into clips. 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 gypsum board butt joints, as described in Item 7. Not evaluated for use with Item 5A or 5B.
PLITEQ INC — Type GENIECLIP

6G. **Alternate Steel Framing Members* —** (Not Shown) — As an alternate to items 6-6F, furring channels and Steel Framing Members as described below.
a. **Furring Channels —** Formed of No. 25 MSG galv steel, 2-5/8 in. wide by 7/8 in deep, spaced 16 in OC, perpendicular to trusses. When batt insulation (Items 5) is draped over the resilient channel/gypsum board ceiling membrane, the resilient channel spacing shall be reduced to 12 in. OC. Channels secured to trusses as described in Item b.

b. **Steel Framing Members* —** Used to attach furring channels (Item a) to trusses (Item 2). Clips spaced at 48" OC and secured to the bottom of the joists with one 2 in. Coarse Drywall Screw with 1 in. diam washer through the center hole. Furring channels are then friction fitted into clips. Ends of channels are overlapped 6" and tied together with double strand of No. 18 AWG galvanized steel wire Additional clips are required to hold the Gypsum Butt joints as described in item 7B.
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

6H. **Alternate Steel Framing Members* —** (Not Shown) — As an alternate to items 6-6G, furring channels and Steel Framing Members as described below.
a. **Furring Channels —** Formed of No. 25 MSG galv steel, 2-1/2 in. wide by 7/8 in deep, spaced 16 in OC, perpendicular to trusses. When batt insulation (Items 5) is draped over the resilient channel/gypsum board ceiling membrane, the resilient channel spacing shall be reduced to 12 in. OC. Channels secured to trusses as described in Item b.

b. **Steel Framing Members* —** Used to attach furring channels (Item a) to trusses (Item 2). Clips spaced at 48" OC and secured to the bottom of the trusses with one 2-1/2 in. Coarse Drywall Screw with 1 in. diam washer through the center hole. Furring channels are then friction fitted into clips. Ends of channels are overlapped 6" and tied together with double strand of No. 18 AWG galvanized steel wire Additional clips are required to hold the Gypsum Butt joints as described in item 7B.

REGUPOL AMERICA — Type SonusClip

6I. **Resilient Channels —** For Use With Item 7C - Formed from min 25 MSG galv. steel installed perpendicular to trusses and spaced 16 in. OC. Channels secured to each truss with 1-5/8 in. long Type S bugle head steel screws. Channels overlapped 4 in. at splices. Two channels, spaced 6 in. OC, oriented opposite each gypsum panel end joint. Additional channels shall extend min 6 in. beyond each side edge of panel. Insulation, Item 5C is applied over the resilient channel/gypsum panel ceiling membrane.

6J. **Steel Framing Members* —** (Optional, Not Shown) — As an alternate to Item 6.
a. **Furring Channels —** Formed of No. 25 MSG galv steel, nominal 2-1/2 in. wide by 7/8 in. deep, spaced as indicated in Item 6, perpendicular to the trusses. 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 used at end joints of gypsum board (Item 7), 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 trusses, friction-fitted into the channel caddy on the Steel Framing Members (Item 6Jd) 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. **Blocking —** Where truss design does not permit direct, full contact of the hanger bracket, a piece of nominal 2 by 4 in. lumber (blocking), min. 12 in. long to permit full contact of the hanger bracket, to be secured vertically to the side of the trusses at the top and bottom of the blocking at each Steel Framing Member (Item 6Jd) location with 16d nails or minimum 2-1/2 in. screws.

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

6K. **Steel Framing Members* —** (Not Shown) — As an alternate to Item 6.
a. **Furring Channels —** Formed of No. 25 MSG galv steel, nominal 2-1/2 in. wide by 7/8 in. deep, spaced as indicated in Item 6, perpendicular to trusses and friction fit into Steel Framing Members (Item 6Kc). 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 used at end joints of gypsum board (Item 7). 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.

b. **Blocking —** Where truss design does not permit direct, full contact of the hanger bracket, a piece of nominal 2 by 4 in. lumber (blocking), min. 12 in. long to permit full contact of the hanger bracket, to be secured vertically to the side of the trusses at the top and bottom of the blocking at each Steel Framing Member (Item 6Kc) location with 16d nails or minimum 2-1/2 in. screws.

c. **Steel Framing Members* —** Used to attach furring channels (Item 6Ka) to trusses. Clips spaced 48 in. OC and secured along truss 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-S1-1 Ultra

6L. **Steel Framing Members* —** (Optional - Not Shown) — Used to attach resilient channels (Item 6) to trusses (Item 2). Clips spaced 48 in. OC and secured to trusses with one No. 8 x 2-1/2 in. coarse drywall screw through center grommet hole. Channels secured to clips with one #10 x 1/2 in. pan-head self-drilling screw. Ends of adjoining channels overlapped 6 in. and secured together with two #8 15 x 1/2 in. Philips Modified screws spaced 2-1/2 in. from the center of the overlap. Gypsum board butt joints require additional resilient channels spaced 1-1/2 in. from the butt joint on either side. One edge of the extra channels will extend to an adjacent truss where it is secured with a clip.
KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

6M. **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 when used.

PAC INTERNATIONAL L L C — Type RC-1 Boost

6N. **Resilient Channels —** For use with **American Gypsum Co. Type AG-C gypsum board only**. Resilient channels, formed of 25 MSG thick galv steel, spaced 16 in. OC perpendicular to trusses. When insulation (Items 5, 5A, 5B) is applied over the resilient channel/gypsum board ceiling membrane, the spacing may remain at 16 in. OC. Channels secured to each truss with 1-1/4 in. long Type S bugle head steel screws. Channels overlapped 4 in. at splices. Two channels, spaced 6 in OC, oriented opposite each gypsum board end joint as shown in the above illustration. Additional channels shall extend 6 in beyond each side edge of board.

6O. **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. When there is no insulation installed in the concealed space the furring channels are spaced 24 in. OC max perpendicular to trusses. When insulation (Item 5) is secured to the underside of the subfloor the furring channels are spaced 16 in. OC max. When insulation (Item 5) is applied over the furring channel/gypsum panel ceiling membrane, the furring channels are spaced 12 in. OC max. Channels secured to trusses as described in Item 6Ob. 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. Additional clips required to hold furring channel that supports the wallboard butt joints, as described in Item 7.

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

CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clips

6P. **Steel Framing Members* —** (Optional, Not Shown) — Used as an alternate method to attach resilient channels (items 6 and 6I)_to structural members. A resilient sound isolation accessory shall be used at each attachment point of the resilient channels and spaced 16 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 2in. 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 when used.

PAC INTERNATIONAL L L C — Type RC-1 Boost

6Q. **Steel Framing Members* —** (Not Shown) — As an alternate to item 6I, 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 16 in. OC perpendicular to trusses. When batt insulation (Items 5) is draped over the resilient channel/gypsum board ceiling membrane, the resilient channel spacing shall be reduced to 12 in. OC. Channels secured to trusses 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 trusses (Item 2). Clips spaced 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to alternating trusses with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. RSIC-Si-X secured with No. 10 x 3-1/2 in. screws. RSIC-1, and RSIC-Si-X, 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 2in. screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7.

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

6R. **Steel Framing Members* —** (Optional, Not Shown) — As an alternate to Item 6I.

a. **Furring Channels —** Formed of No. 25 MSG galv steel, nominal 2-1/2 in. wide by 7/8 in. deep, spaced as indicated in Item 6, perpendicular to the trusses. 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 used at end joints of gypsum board (Item 7), 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 trusses, friction-fitted into the channel caddy on the Steel Framing Members (Item 6Jd) 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. **Blocking —** Where truss design does not permit direct, full contact of the hanger bracket, a piece of nominal 2 by 4 in. lumber (blocking), min. 12 in. long to permit full contact of the hanger bracket, to be secured vertically to the side of the trusses at the top and bottom of the blocking at each Steel Framing Member (Item 6Jd) location with 16d nails or minimum 2-1/2 in. screws.

d. **Steel Framing Members* —** Spaced 48 in. OC. max along truss, and secured to the truss on alternating trusses with two, #10 x 2in. screws through mounting holes on the hanger bracket.

PAC INTERNATIONAL L L C — Type RSIC-SI-CRC EZ Clip

6S. **Steel Framing Members* —** (Not Shown) — As an alternate to Item 6I.

a. **Furring Channels —** Formed of No. 25 MSG galv steel, nominal 2-1/2 in. wide by 7/8 in. deep, spaced as indicated in Item 6, perpendicular to trusses and friction fit into Steel Framing Members (Item 6Kc). 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 used at end joints of gypsum board (Item 7). 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.

b. **Blocking —** Where truss design does not permit direct, full contact of the hanger bracket, a piece of nominal 2 by 4 in. lumber (blocking), min. 12 in. long to permit full contact of the hanger bracket, to be secured vertically to the side of the trusses at the top and bottom of the blocking at each Steel Framing Member (Item 6Kc) location with 16d nails or minimum 2-1/2 in. screws.

c. **Steel Framing Members* —** Used to attach furring channels (Item 6Ka) to trusses. Clips spaced 48 in. OC and secured along truss webs at each furring channel intersection with min. 3/4 in. long self-drilling #10 x 2 in. screws through each of the provided hole locations. Furring channels are friction fitted into clips.

PAC INTERNATIONAL L L C — Type RSIC-S1-1 Ultra

7. **Gypsum Board* —** Nom 5/8 in. thick, 48 in. wide gypsum board. When resilient channels (Item 6) are used, gypsum board installed with long dimension perpendicular to resilient channels. Gypsum board secured with 1 in. long Type S bugle head screws spaced 12 in. OC and located a min of 1/2 in. from side joints and 3 in. from end joints. End joints secured to both resilient channels as shown in end joint detail. When batt insulation (Item 5) is draped over the resilient channel/gypsum board ceiling membrane, screws spacing shall be 8 in. OC. When **Steel Framing Members*** (Item 6A, 6F, 6O) are used, gypsum board installed with long dimension perpendicular to furring channels and side joints of sheet located beneath joists. Gypsum board secured to furring channels with 1 in. long Type S bugle head screws spaced 12 in. OC in the field. Butted end joints shall be staggered min 2 ft within the assembly, and occur between the continuous furring channels. At butted end joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 6 in. on each end. The two furring channels shall be spaced approximately 3-1/2 in. OC and be attached to underside of the joist with one clip at each end of the channel. Screw spacing along the end joint shall be 8 in. OC.
When **Steel Framing Members** (Item 6J) are used, nom 5/8 in. thick, 4 ft wide gypsum board, installed as described in Item 7. Adjacent butt joints staggered minimum 48 in. OC.

When **Steel Framing Members** (Item 6K) are used, nom 5/8 in. thick, 4 ft wide gypsum board, installed as described in Item 7. Butt joints staggered minimum 24 in. OC.

AMERICAN GYPSUM CO — Type AG-C

CGC INC — Types C, IP-X2, IPC-AR

CERTAINTEED GYPSUM INC — Type LGFC-C/A

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

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

UNITED STATES GYPSUM CO — Types 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

7A. **Gypsum Board* —** Nom 5/8 in. thick, 48 in. wide gypsum board, installed with long dimension perpendicular to resilient channels. Gypsum board secured with 1-1/8 in. long Type S bugle head screws spaced 8 in. OC and located a min of 1/2 in. from side joints and 3 in. from the end joints. End joints secured to both resilient channels as shown in end joint detail. When Item 7A is used, the insulation must be used and must be draped over the resilient channel/gypsum board.
NATIONAL GYPSUM CO — Types eXP-C, FSW-G, FSW-C, FSK-G, FSK-C

7B. **Gypsum Board* —** Nom 5/8 in. thick, 48 in. wide gypsum panels. When resilient channels (Item 6) are used, 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 and located a min of 1/2 in. from side joints and 3 in. from the end joints. When insulation (Items 5 or 5A) is applied over the resilient channel/gypsum panel ceiling membrane screw spacing shall be reduced to 8 in. OC. End joints secured to both resilient channels as shown in end joint detail. When **Steel Framing Members** (Item 6A, 6O) 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 to underside of the truss with one clip at each end of the channel. When **Steel Framing Members*** (Item 6B) are used, gypsum panels installed with long dimension perpendicular to cross tees with side joints centered along main runners and end joints centered along cross tees. Panels fastened to cross tees with 1 in. long . Type S bugle-head screws spaced in the field and 8 in. OC along end joints. Panels fastened to main runners with 1 in. long . Type S bugle-head screws spaced midway between cross tees. Screws along sides and ends of panels spaced 3/8 to 1/2 in. from panel edge. End joints of panels shall be staggered with spacing between joints on adjacent panels not less than 4 2 ft OC. When **Fiber, Sprayed** (Items 5A or 5B) is used, two layers of nom 5/8 in. thick, 4 ft wide gypsum board are installed with long dimensions perpendicular to furring channels. Base layer gypsum board secured with 1 in. long Type S bugle head steel screws spaced 12 in. OC and located a min of 1/2 in. from side joints and 3 in. from the end joints. End joints secured to both resilient channels as shown in end joint detail. Outer layer gypsum board secured with 1-5/8 in. long Type S bugle head steel screws spaced 12 in. OC and located a min of 1/2 in. from side joints and 3 in. from the end joints. Outer layer shall be finished as described in Item 8. When both **Steel Framing Members** (Item 6A) and **Fiber, Sprayed** (Items 5A or 5B) are used, furring channels spaced 12 in. OC and two layers of nom 5/8 in. thick, 4 ft wide gypsum board are installed with long dimension perpendicular to furring channels. Base layer secured to furring channels with nom 1 in. long Type S bugle head screws spaced 8 in. OC along butted end joints and in the field of the board. 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 board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 6 in. on each end. The two support furring channels shall be spaced approximately 3-1/2 in. OC, and be attached to the underside of the truss with one clip at each end of the channel. Outer layer secured to furring channels using 1-5/8 in. long Type S screws spaced 8 in. OC and 1-1/2 in. from the end joint. Butted end joints to be offset a min. of 8 in. from base layer end joints. Butted side joints of outer layer to be offset min. 18 in. from butted side joints of base layer. When **Steel Framing Members** (Item 6C) are used, two layers of nom 5/8 in. thick, 4 ft wide gypsum board are installed with long dimensions perpendicular to furring channels (Item 6Ca). Base layer attached to the furring channels using 1 in. long Type S bugle head steel screws spaced 8 in. OC along butted end joints and 12 in. OC in the field of the board. Butted end joints centered on the continuous furring channels. Butted base layer end joints to be offset a min of 16 in. in adjacent courses. Outer layer attached to the furring channels using 1-5/8 in. long Type S bugle head steel screws spaced 8 in. OC at butted end joints and 12 in. OC in the field. Butted end joints centered on the continuous furring channels and offset a min of 16 in. from butted end joints of base layer. Butted side joints of outer layer to be offset min 16 in. from butted side joints of base layer. When **Steel Framing Members** (Item 6D) are used, two layers of nom 5/8 in. thick, 4 ft wide gypsum board are installed with long dimensions perpendicular to furring channels. Base layer attached to the furring channels using 1 in. long Type S bugle-head steel screws spaced 12 in. OC in the field of the board. 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 board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 6 in. on each end. The two furring channels shall be spaced approximately 4 in. OC, and be attached to underside of the truss with one Isomax clip at each end of the channel. Screw spacing along the gypsum board butt joint shall be 8 in. OC. Outer layer attached to the furring channels using 1-5/8 in. long Type S bugle-head steel screws spaced 12 in. OC in the field. The end of the outer layer boards at the butt joint shall be attached to the base layer boards with 1-5/8 in. long Type G screws spaced 8 in. OC and 1-1/2 in. from the end joint. Butted end joints to be offset a min of 8 in. from base layer end joints. Butted side joints of outer layer to be offset min 18 in. from butted side joints of base layer. Outer layer shall be finished as described in Item 8. When **Steel Framing Members** (Item 6F) are used, two layers of nom 5/8 in. thick, 4 ft wide are installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels using 1 in. long No. 6 Type S bugle-head steel screws spaced 12 in. OC in the field of the board. Butted end joints shall be staggered minimum 2 ft. within the assembly. Additional furring channels constructed as per Item 6F shall be used to support each end of each gypsum board. These additional furring channels shall be attached to underside of the truss with Genie clips as described in Item 6F. Screw spacing along the gypsum board butt joint shall be 8 in. OC. Outer layer attached to the furring channels using 1-5/8 in. long No. 6 Type S bugle-head steel screws spaced 12 in. OC in the field. The outer layer boards at the butt joint shall be attached to the base layer boards with No. 10, 1-1/2 in. long drywall screws spaced 8 in. OC and 1-1/2 in. from the end joint. Butted end joints to be offset a min of 24 in. from base layer end joints. Butted side joints of outer layer to be offset min 16 in. from butted side joints of base layer. When **Steel Framing Members** (Item 6G) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 48 in. and centered over main furring channels. At the gypsum board butt joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 3 in. on each end. The two support furring channels shall be spaced approximately 3 in. in from joint. Screw spacing along the gypsum board butt joint and along both additional channels shall be 8 in. OC. Additional screws shall be placed in the adjacent section of gypsum board into the aforementioned 3 in. extension of the extra butt joint channels as well as into the main channel that runs between. Butt joint furring channels shall be attached with one RESILMOUNT Sound Isolation Clip at each end of the channel.
When **Steel Framing Members** (Item 6H) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 48 in. and centered over main furring channels. At the gypsum board butt joints, an additional single length of furring channel shall be installed and be spaced approximately 3 in. from the butt joint (6 in. from the continuous furring channels) to support the floating end of the gypsum board. Each of these shorter sections of furring channel shall extend one truss beyond the width of the gypsum panel and be attached to the adjacent trusses with one SonusClip at every truss involved with the butt joint.

CERTAINTEED GYPSUM INC — Type C

CGC INC — Types C, IP-X2, IPC-AR

CERTAINTEED GYPSUM INC — Type LGFC-C/A

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

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

UNITED STATES GYPSUM CO — Types 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

7C. **Gypsum Board* —** (As an alternative to Items 7 and 7B, For use with Items 5C and 6I) — Nom 5/8 in. thick, 48 in. wide gypsum board, installed and secured as described in Items 7 and 7B but with max screw spacing 8 in. OC. When used with insulation (Batts and Blankets* or Fiber Sprayed*) that is installed over the resilient channel/Gypsum Board* ceiling membrane, the resilient channels may remain at 16 in. OC and not need to be reduced to 12 in. OC.
CGC INC — Type ULIX

UNITED STATES GYPSUM CO — ULIX

7D. **Gypsum Board* —** (As an alternative to Items 7, 7A, 7B and 7C) — For use when no insulation is used. Nom 5/8 in. thick, 48 in. wide gypsum board, installed as described in item 7 with resilient channels (Item 6) spaced 24 in OC.

AMERICAN GYPSUM CO — Type AG-C

8. **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 board.

9. **Grille —** Grille, installed in accordance with the installation instructions provided with the ceiling damper.

10. **Wire Mesh —** (Not Shown) — For use with Item 5A and 5B — 1 in. 20 gauge galvanized poultry netting installed between the furring channels and gypsum board. The poultry netting is attached with washers and 1/2 in. wafer head screws, spaced 24 in. OC., to the furring channels. The **Fiber, Sprayed** (Item 5A or 5B) is installed through cut-openings in the poultry netting, in-between trusses. The cut-openings in the poultry netting shall be staggered at a maximum of 6 ft.

*** 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 2023-10-03

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL

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UL ASSEMBLIES - L546

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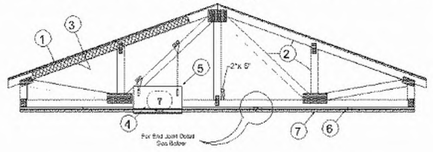
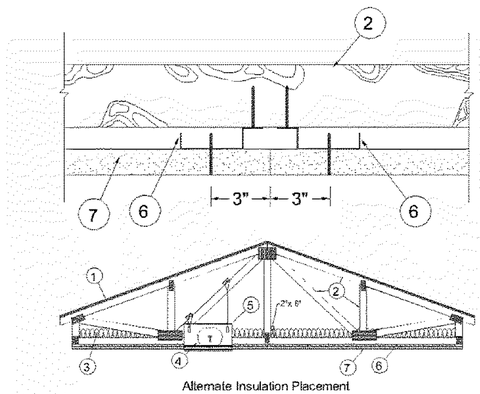
G-203





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- 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.
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- 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.
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- 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. **P545**

September 8, 2023

Unrestrained Assembly Rating — 1 Hr.
Finish Rating — 24 or 25 Min (See Items 3 and 3A)
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.**

Alternate Insulation Placement

1. **Roofing System* —** Any UL Class A, B or C Roofing System **(TGFU)** or Prepared Roof Covering **(TFWZ)** acceptable for use over nom 15/32 in. thick wood structural panels, min. grade "C-D" or "Sheathing". Nom 15/32 in. thick wood structural panels secured to trusses with No. 6d ringed shank nails. Nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails. Construction adhesive is optional.

2. **Trusses —** Pitch chord trusses, spaced a max of 24 in. OC, fabricated from nom 2 by 4 lumber, with lumber oriented vertically or horizontally. Truss members secured together min.0.0356 in. thick galv steel plates. Plates have 5/16 in. long teeth projecting perpendicular to the plane of the plate. The teeth are in pairs facing each other (made by the same punch), forming a split tooth type plate. Each tooth has a chisel point on its outside edge. These points are diagonally opposite each other for each pair. The top half of each tooth has a twist for stiffness. The pairs are repeated on approximately 7/8 in. centers with four rows of teeth per inch of plate width. Where the truss intersects with the interior face of the exterior walls, the min truss depth shall be 5-1/4 in. and a min. average depth of 18 in.. Where the truss intersects with the interior face of the exterior walls, the min truss depth may be reduced to 3 in. if the batts and blankets (Item 3) are used as shown in the above illustration (Alternate Insulation Placement) and are firmly packed against the intersection of the bottom chords and the plywood sheathing. Min roof slope of 3/12 unless American Gypsum boards are used, in which case there is no minimum slope.

3. **Batts and Blankets* —** (Optional) — Glass fiber insulation, secured to the wood structural panels with staples spaced 12 in. OC or to the trusses with 0.090 in. diam galv steel wires spaced 12 in. OC. Any glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance, having a min density of 0.5 pcf. As an option, the insulation may be fitted in the concealed space, draped over the resilient channel/gypsum wallboard ceiling membrane when resilient channels and gypsum wallboard attachment is modified as specified in Items 6 and 7. The Finish Rating is 24 min. when the insulation is draped over the resilient channels and gypsum board ceiling membrane and 25 min. when it is installed on underside of the plywood deck or when it is omitted.
When Type AG-C panels are installed there is no limit on maximum thickness.

When Type TG-C panels are installed the maximum thickness is 3-1/2 in.

3A. **Loose Fill Material* —** As an alternate to Item 3 — Loose fill material bearing the UL Classification Marking for Surface Burning Characteristics, having a min density of 0.5 pcf, fitted in the concealed space, draped over the resilient channel/gypsum wallboard ceiling membrane when resilient channels and gypsum wallboard attachment is modified as specified in Items 6 and 7. The finished rating when this insulation is used has not been determined.
When Type AG-C panels are installed there is no limit on maximum thickness.

When Type TG-C panels are installed the maximum thickness is 3-1/2 in.

3B. **Fiber, Sprayed* —** For Use With American Gypsum Type AG-C only. As an alternate to Item 3 (not evaluated for use with Item 6B and 6C) — spray-applied cellulose insulation material, having a min density of 0.5 lb/ft^3, applied with water, over the resilient channel/gypsum board ceiling membrane when resilient channels and gypsum board attachment is modified as specified in Items 6 and 7. Fiber, Sprayed is applied with moisture in accordance with the application instructions supplied with the product. The finish rating when Fiber Sprayed is used has not been determined. Alternate application method: The fiber is applied without water or adhesive in accordance with the application instructions supplied with a minimum density of 0.5 lb/ft^3 over the resilient channel/gypsum board ceiling membrane when resilient channels and gypsum board attachment is modified as specified in Items 6 and 7. Alternate application method: The fiber is applied without water or adhesive to a nominal density of 3.5 lb/ft^3 behind netting (Item 11) stapled to the rafters. The netting is stapled at both lower edges of the rafters creating a cavity to accept the cellulose fiber The finished rating when this insulation is used has not been determined.
When Type AG-C panels are installed there is no limit on maximum thickness.

When Type TG-C panels are installed the maximum thickness is 3-1/2 in.

APPLEGATE GREENFIBER ACQUISITION LLC — Insulmax and SANCTUARY for use with wet or dry application. INS510LD, INS515LD, and INS541LD are to be used for dry application only.

3C. **Foamed Plastic* —** For Use With American Gypsum Type AG-C only. (As an alternate to Item 3, Not Shown) — Spray foam insulation applied directly to the underside of the underside of the roofing system (Item 1). Spray foam insulation installed to a maximum thickness of 10 in. at a nominal 0.5 lb/ft^3 density, while maintaining a minimum 8-1/2 in. clearance between the spray foam insulation and the gypsum board. When spray foam insulation is used, resilient channels (Item 6) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board (Item 7) installed at 6 in. OC to allow for maximum 3 in. spacing off ends of the gypsum board joints. Gypsum board to be installed using 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. If used with a ceiling damper (Items 5 through 5AC) in the concealed space, minimum 1 in. clearance to be maintained between damper housing and spray foam insulation. Limited to resilient channels, Item 6 only, no Item 6 alternates. The finished rating when this insulation is used has not been determined.
SES FOAM INC — Sucraseal

3D. **Foamed Plastic* —** For Use With American Gypsum Type AG-C only. (As alternate to Item 3 Not Shown) — Spray foam insulation applied directly to the underside of the roofing system. Spray foam insulation installed to a maximum thickness of 10 in. at a nominal 0.5 lb/ft^3 or 2.0 lb/ft^3 density, depending on the product installed. When spray foam insulation is installed, resilient channels (Item 6) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board spaced maximum 3 in. away from gypsum butt joints. Gypsum board to be installed using minimum 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. If used with a ceiling damper (Items 5 through 5AC) in the concealed space, minimum 1 in. clearance to be maintained between damper housing and spray foam insulation. Limited to resilient channels, Item 6 only, no Item 6 alternates.. The finished rating when this insulation is used has not been determined.
BASF CORP — Enertite® NM, Enertite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, and Walltite® HP+

3E. **Foamed Plastic* —** For Use With American Gypsum Type AG-C only. (As an alternate to Item 3, Not Shown) — Spray foam insulation applied directly to the underside of the underside of the roofing system. Spray foam insulation installed to a maximum thickness of 17 in. at a nominal 0.5 lb/ft^3 density, while maintaining a minimum 1-1/2 in. clearance between the spray foam insulation and the gypsum board. When spray foam insulation is used, resilient channels (Item 6) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board installed at 6 in. OC to allow for maximum 3 in. spacing off ends of the gypsum board joints. Gypsum board to be installed using 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. If used with a ceiling damper (Items 5 through 5AC) in the concealed space, no clearance is necessary between damper housing and spray foam insulation. Limited to resilient channels, Item 6 only, no Item 6 alternates. The finished rating when this insulation is used has not been determined.
SES FOAM INC — EasySeal.5, EasySeal ULD

3F. **Foamed Plastic* —** (As alternate to Item 3) — Spray foam insulation applied directly to the underside of the underside of the roofing system. Spray foam insulation installed to a maximum thickness of 11 in. at a nominal 1.0 lb/ft^3 - 2.5 lb/ft^3 density, while maintaining a minimum 7 in. clearance between the spray foam insulation and the gypsum board (Item 7). Spray foam insulation is limited for use with minimum 18 in. deep trusses (Item 2). When spray foam insulation is installed, resilient channels (Item 6) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board spaced maximum 3 in. away from gypsum butt joints. Gypsum board to be installed using minimum 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels, as illustrated above. If used with a ceiling damper (Items 5 through 5AC) in the concealed space, no clearance is necessary between damper housing and spray foam insulation. Only for use with item 5 not evaluated for use with alternates to item 5. Only for use with item 6 not evaluated for use with alternates to item 6.
CARLISLE SPRAY FOAM INSULATION — Types SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro One Zero, SealTite PRO HFO, Foamsulate Closed Cell, Foamsulate OCX, Foamsulate 70, Foamsulate HFO, and Foamsulate HFO 2.0.

4. **Air Duct* —** For use with **Ceiling Damper*** - Any UL Class 0 or Class 1 flexible air duct installed in accordance with the instructions provided by the damper manufacturer.

5. **Ceiling Damper* —** Nom 20 in. long by 18 in. wide by 2-1/8 in. high, fabricated from galvanized steel. Plenum box maximum size nom. 21 in. long by 18 in. wide by 16 in. high fabricated from either galavanized steel or Classified Air Duct Materials bearing the UL Class 0 or Class 1 rigid air duct material. Installed in accordance with the instructions provided by the manufacturer. Max damper openings not to exceed 180 sq in. per 100 sq ft of ceiling area.
NAILOR INDUSTRIES INC — Types 0755, 0755A, 0756, 0756D, 0757, 0757D, 0757FP, 0757DFP, 0758, 0759, 0760, 0761, 0762, 0763, CRD5, CRD5D, CRD6, CRD6D, CRD6FP, CRD6DFP.

SAFE AIR DOWCO — 0455, 0455A, 0456, 0456D, 0457, 0457D, 0457-DB, 0457-CB, 0463-FB, 0457-EB, 0463-GB, 0463

5A. **Alternate Ceiling Damper* —** Max plenum box size nom 19 in. long by 19 in. wide and 11-7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.
AIRE TECHNOLOGIES INC — Models: CRD model 50 w/Boot, CRD model 50EA w/Boot, CRD model 55 w/Boot, CRD model 55 EA w/Boot

LLOYD INDUSTRIES INC — Model CRD 50-BT, CRD 50-EA-BT, CRD 55-BT, CRD 55 EA-BT

5B. **Alternate Ceiling Damper* —** Max plenum box size nom 13 in. long by 13 in. wide and 11-7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 50 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.
LLOYD INDUSTRIES INC — Model CRD 50-BT-6, CRD 50-EA-BT-6, CRD 55-BT-6, CRD 55 EA-BT-6, CRD50-^{w} X-BT-6

5C. **Alternate Ceiling Damper* —** Max size ceiling outlet in plenum box nom 12 in. long by 12 in. wide. Plenum box fabricated from galv steel. Aggregate damper openings shall not exceed 72 sq in. per 100 sq ft of ceiling area. Installed in accordance with the manufacturers installation instructions provided with the damper.
AIRE TECHNOLOGIES INC — Models: CRD model 50 w/Boot, CRD model 50EA w/Boot, CRD model 55 w/Boot, CRD model 55 EA w/Boot

LLOYD INDUSTRIES INC — Model CRD 50-95BT, CRD 50-EA-95BT, CRD 55-95BT, CRD 55 EA-95BT

5D. **Alternate Ceiling Damper* —** Max size ceiling outlet in plenum box nom 16 in. long by 16 in. wide. Aggregate damper openings shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.
LLOYD INDUSTRIES INC — Models CRD 50- FGPB-4.2, - 4.2 NI, -6.0, -6.0 NI; CRD50-EA-FGPB-4.2, -4.2 NI, -6.0, -6.0 NI

5E. **Alternate Ceiling Damper* —** Max plenum box size nom 15 in. long by 15 in. wide and 11-7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 72 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.
LLOYD INDUSTRIES INC — Models 45-CRD-LT-BT and 45-CRD-LTD-BT

5F. **Alternate Ceiling Damper* —** Max size ceiling outlet in plenum box nom 10 in. long by 10 in. wide. Plenum box fabricated from galv steel. Aggregate damper openings shall not exceed 50 sq in. per 100 sq ft of ceiling area. Installed in accordance with the manufacturers installation instructions provided with the damper.
LLOYD INDUSTRIES INC — Model 45-LTD-95-BT-4

5G. **Alternate Ceiling Damper* —** Max plenum box size nom 19 in. long by 15 in. wide and 11-7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 96 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.
LLOYD INDUSTRIES INC — Model CRD50-^{w} X-BT

5H. **Alternate Ceiling Damper* —** Max nom area shall be 324 sq in. Max square size shall be 18 in. by 18 in. Rectangular sizes not to exceed 324 sq in. with a max width of 18 in. Max height of damper shall be 14 in. Aggregate damper openings shall not exceed 162 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille (Item 9) shall be installed in accordance with installation instructions.
C&S AIR PRODUCTS — Model RD-521

POTTORFF — Model CFD-521

5I. **Alternate Ceiling Damper* —** Max nom area shall be 196 sq in. Max square size shall be 14 in. by 14 in. Rectangular sizes not to exceed 196 sq in. with a max width of 26 in. Max height of damper shall be 7 in. Aggregate damper openings shall not exceed 98 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille (Item 9) not to exceed 144 in.2 shall be installed in accordance with installation instructions.
C&S AIR PRODUCTS — Model RD-521-BT

POTTORFF — Model CFD-521-BT

5J. **Alternate Ceiling Damper* —** Max nom area shall be 256 sq in. with the length not to exceed 24 in. and the width not to exceed 20 in. Max height of damper shall be 17 in. Aggregate damper openings shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille (Item 9) shall be installed in accordance with installation instructions.
C&S AIR PRODUCTS — Model RD-521-IP, RD-521-NP

POTTORFF — Models CFD-521-IP, CFD-521-NP

5K. **Alternate Ceiling Damper* —** Max nom area shall be 144 sq in. with the length not to exceed 14 in. and the width not to exceed 12 in. Max height of damper shall be 17-7/8 in. Aggregate damper openings shall not exceed 74 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille (Item 9) shall be installed in accordance with installation instructions.
C&S AIR PRODUCTS — Model RD-521-90, RD-521-NP90

POTTORFF — Models CFD-521-90, CFD-521-90NP

5L. **Alternate Ceiling Damper* —** (Optional) Max nom area shall be 324 sq in. Max square size shall be 18 in. by 18 in. Rectangular sizes not to exceed 324 sq in. with a max width and max length of 18 in. Max round size shall be 18 in. dia. Aggregate damper openings shall not exceed 162 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.
RUSKIN COMPANY — Models CFD7T, CFD7T-END-BT, CFD7T-90-BT, CFD7T-ST-BT, CFD7T-SB, CFD7T-R6-DB, CFD7T-IB6, or CFDR7T

5M. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly. Max nom area shall be 75 sq in. with the length not to exceed 8-9/16 in. and the width not to exceed 8-3/4 in. Max height of damper shall be 9-7/8 in. Aggregate damper openings shall not exceed 38 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturers installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.
DELTA ELECTRONICS INC — Models CRD2, GBR-CRD, ITG-CRD

5N. **Alternate Ceiling Damper* —** Max nom area shall be 324 sq in. Max square size shall be 18 in. by 18 in. Rectangular sizes not to exceed 324 sq in. with a max length of 20 in. and a max width of 22 in. Max height of damper shall be 14 in. Aggregate damper openings shall not exceed 154 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturer's installation instructions provided with the damper. An aluminum or steel grille shall be installed in accordance with installation instructions.
UNITED ENERTECH CORP — Type C-S/R-WT or C-S/R-WTP (Max nom area 324 sq. in.) or C-S/R-WTS or C-S/R-WTPS (Max nom area 162 sq. in.)

5O. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly. Max nom area shall be 75 sq in. with the length not to exceed 9-1/4 in. and the width not to exceed 9-3/4 in. Max height of damper shall be 9-7/8 in. Aggregate damper openings shall not exceed 45 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.
DELTA ELECTRONICS INC — Model SIG-CRD

5P. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly. Max nom area shall be 131 sq in. with the length not to exceed 11-1/16 in. and the width not to exceed 11-7/8 in. Aggregate damper openings shall not exceed 66 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 9) shall be installed in accordance with installation instructions.
DELTA ELECTRONICS INC — Model SMT-CRD

5Q. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly. Max nom area shall be 103 sq in. with the length not to exceed 10-1/8 in. and the width not to exceed 10-1/8 in. Aggregate damper openings shall not exceed 52 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.
PANASONIC CORPORATION, PANASONIC CORPORATION OF NORTH AMERICA — Model PC-RD05C5

5R. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly. Max nom area shall be 113 sq in. with the length not to exceed 10-1/8 in. and the width not to exceed 11-1/8 in. Aggregate damper openings shall not exceed 57 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.
BROAN-NUTONE L L C — Model RDFUWT

5S. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly. Max nom area shall be 79 sq in. with the length not to exceed 10 in. and the width not to exceed 7-15/16 in. Aggregate damper openings shall not exceed 40 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A metallic grille shall be installed in accordance with installation instructions.
BROAN-NUTONE L L C — Models RDJ1 and RDH

5T. **Alternate Ceiling Damper* —** Max plenum box size nom 19 in. long by 19 in. wide and 11-7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.
METAL-FAB INC — Models MSCD-HC and MRCD-HC

5U. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly. Max nom area shall be 87 sq in. with the length not to exceed 9 in. and the width not to exceed 9-11/16 in. Aggregate damper openings shall not exceed 44 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.
BROAN-NUTONE L L C — Model RDMWT

5V. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly. Max nom area shall be 87 sq in. with the length not to exceed 9 in. and the width not to exceed 9-11/16 in. Aggregate damper openings shall not exceed 44 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.
BROAN-NUTONE L L C — Model RDMWT2

5W. **Alternate Ceiling Damper* —** Max nom 21 in. long by 18 in. wide, fabricated from galvanized steel. Plenum box max size nom 21 in. long by 18 in. wide by 14 in. high (inner dimension) fabricated from either galvanized steel or min 1 in. thick Listed Duct Board bearing the UL Listing Marking having a min R-Value of 4.3. Installed in accordance with the instructions provided by the manufacturer. Max damper openings not to exceed 180 sq in. per 100 sq ft of ceiling area.
GREENHECK FAN CORP — Model CRD-1WT

5X. **Alternate Ceiling Damper* —** Max nom 12 in. long by 12 in. wide with an 8 in. diameter damper, fabricated from galvanized steel. Installed in accordance with the instructions provided by the manufacturer. Max damper openings not to exceed 72 sq in. per 100 sq ft of ceiling area.
GREENHECK FAN CORP — Model CRD-2WT

5Y. **Alternate Ceiling Damper* —** Max 12 in. diameter damper and insulated register box assembly. The maximum size of the register box assembly is nom. 20 in. long by 20 in. wide and 4 in. high fabricated from galv steel. The aggregate area of the register opening(s) through the ceiling membrane shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper assembly installed in accordance with the manufacturers installation instructions.
AIRE TECHNOLOGIES INC — Model 57IB.

5Z. **Alternate Ceiling Damper* —** Max 20 in. long by 16 in. wide by 4 in. high rectangular damper with plenum box assembly. The maximum outer dimensions of the plenum box assembly is 23-1/2 in. long by 19-1/2 in. wide and 17 in. high fabricated from 6pcf, 1-1/2 to 2 in. thick Knauf Air Duct Board M*. The aggregate area of the register opening(s) through the ceiling membrane shall not exceed 160 sq in. per 100 sq ft ceiling area. Damper assembly installed in accordance with the manufacturers installation instructions.
AIRE TECHNOLOGIES INC — Series 58.

5AA. **Alternate Ceiling Damper* —** Max 14 in. long by 14 in. wide and 18 in. high ceiling damper with boot or box assembly, fabricated from galv steel. The aggregate area of the register opening(s) through the ceiling membrane shall not exceed 98 sq in. per 100 sq ft of ceiling area. Damper assembly installed in accordance with the manufacturers installation instructions.
AIRE TECHNOLOGIES INC — Model 51 w/Boot.

5AB. **Alternate Ceiling Damper* —** Max nom 11-1/8 in. long by 13-5/8 in. wide, fabricated from galvanized steel. Installed in accordance with the instructions provided by the manufacturer. Max damper openings not to exceed 76 sq in. per 100 sq ft of ceiling area.
GREENHECK FAN CORP — Model CRD-310WT

5AC. **Alternate Ceiling Damper* —** Max nom 12-3/8 in. long by 14-1/2 in. wide, fabricated from galvanized steel. Installed in accordance with the instructions provided by the manufacturer. Max damper openings not to exceed 90 sq in. per 100 sq ft of ceiling area.
GREENHECK FAN CORP — Model CRD-320WT

5AD. **Alternate Ceiling Damper* —** Max 12 in. diameter damper within max 15 in. by 15 in. register box with max 12 in. by 12 in. register opening fabricated from galvanized steel. Aggregate area of the register opening(s) through the ceiling membrane shall not exceed 72 sq. in. per 100 sq. ft. of ceiling area. Damper assembly installed in accordance with the manufacturer's installation instructions.
RUSKIN COMPANY — Model CFD7T-SR

5AE. **Alternate Ceiling Damper* —** Max 12 in. diameter damper and insulated register box assembly. The maximum size of the register box assembly is nom. 20 in. long by 20 in. wide and 4 in. high fabricated from galv steel. The aggregate area of the register opening(s) through the ceiling membrane shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper assembly installed in accordance with the manufacturers installation instructions.
SOUTHWARK METAL MFG CO — Model 800 w/Box

5AF. **Alternate Ceiling Damper* —** Max 20 in. long by 16 in. wide by 4 in. high rectangular damper with plenum box assembly. The maximum outer dimensions of the plenum box assembly are 23-1/2 in. long by 19-1/2 in. wide and 17 in. high fabricated from 6pcf, 1-1/2 to 2 in. thick Knauf Air Duct Board M*. The aggregate area of the register opening(s) through the ceiling membrane shall not exceed 160 sq in. per 100 sq ft ceiling area. Damper assembly installed in accordance with the manufacturers installation instructions.
SOUTHWARK METAL MFG CO — CRD w/DB Box

5AG. **Alternate Ceiling Damper* —** Max 14 in. long by 14 in. wide and 18 in. high ceiling damper with boot or box assembly, fabricated from galv steel. The aggregate area of the register opening(s) through the ceiling membrane shall not exceed 98 sq in. per 100 sq ft of ceiling area. Damper assembly installed in accordance with the manufacturers installation instructions.
SOUTHWARK METAL MFG CO — Model 500 w/Boot, 510 w/Boot, 500 w/Box or 510 w/Box

5AH. **Alternate Ceiling Damper* —** Max nom 10-3/8 in. long by 10-3/8 in. wide, fabricated from galvanized steel. Installed in accordance with the instructions provided by the manufacturer. Max damper openings not to exceed 54 sq in. per 100 sq ft of ceiling area.

GREENHECK FAN CORP — Model CRD-300WT

6. **Furring Channels —** Resilient channels formed of 25 MSG galv steel, spaced 16 in. OC, installed perpendicular to trusses. When insulations are installed or draped over the resilient channel/gypsum wallboard ceiling membrane, the spacing shall be as described below. Channels secured to each truss with 1-1/4 in. long Type S steel screws. Channels overlapped 4 in. at splices. Channels oriented opposite at wallboard butt joints (spaced 6 in. OC) as shown in the above illustration.
When Type AG-C panels are attached to the resilient channels, the channels may remain at 16 in. OC.

When Type TG-C panels are attached to the resilient channels, the channels are installed at 12 in. OC.

6A. **Steel Framing Members* —** (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, 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 16 in. OC perpendicular to trusses. When batt insulation (Item 3) is draped over the resilient channel/gypsum board ceiling membrane, the resilient channel spacing shall be reduced to 12 in. OC. Channels secured to trusses 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 trusses (Item 2). Clips spaced 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to alternating trusses with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to alternating trusses with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (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 gypsum board butt joints, as described in Item 7.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75)

6B. **Alternate Steel Framing Members* —** (Not Shown) — Not evaluated with Item 3 (Batts and Blankets). As an alternate to Items 6 or 6A, furring channels and Steel Framing Members as described below.
a. **Furring Channels —** Formed of No. 25 MSG galv steel, 2-5/8 in. wide by 7/8 in deep, spaced 16 in OC, perpendicular to trusses. Channels secured to trusses as described in Item b.

b. **Steel Framing Members* —** Used to attach furring channels (Item a) to the wood trusses (Item 2). Clips spaced at 48" OC and secured to the bottom of the trusses with one 2 in. Coarse Drywall Screw with 1 in. diam washer through the center hole. Furring channels are then friction fitted into clips. Ends of channels are overlapped 6" and tied together with double strand of No. 18 AWG galvanized steel wire. Additional clips are required to hold the Gypsum Butt joints as described in Item 7.
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

6C. **Alternate Steel Framing Members* —** (Not Shown) — Not evaluated with Item 3 (Batts and Blankets). As an alternate to Items 6 through 6B, furring channels and Steel Framing Members as described below.
a. **Furring Channels —** Formed of No. 25 MSG galv steel, 2-1/2 in. wide by 7/8 in deep, spaced 16 in OC, perpendicular to trusses. Channels secured to trusses as described in Item b.

b. **Steel Framing Members* —** Used to attach furring channels (Item a) to the wood trusses (Item 2). Clips spaced at 48" OC and secured to the bottom of the trusses with one 2-1/2 in. Coarse Drywall Screw with 1 in. diam washer through the center hole. Furring channels are then friction fitted into clips. Ends of channels are overlapped 6" and tied together with double strand of No. 18 AWG galvanized steel wire. Additional clips are required to hold the Gypsum Butt joints as described in Item 7.
REGUPOL AMERICA — Type SonusClip

7. **Gypsum Board* —** Nom 5/8 in. thick, 48 in. wide, installed with long dimension perpendicular to resilient channels with 1 in. long Type S screws spaced 12 in. OC and located a min of 1/2 in. from side joints and 3 in. from the end joints. At end joints, two resilient channels are used, extending a min of 6 in. beyond both ends of the joint. When batt and blanket insulation, Item 3, is draped over the resilient channel/gypsum wallboard ceiling membrane, screws shall be installed at 8 in. OC. When **Steel Framing Members** (Item 6B) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 48 in. and centered over main furring channels. At the gypsum board butt joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 3 in. on each end. The two support furring channels shall be spaced approximately 3 in. in from end joint. Screw spacing along the gypsum board butt joint and along both additional channels shall be 8 in. OC. Additional screws shall be placed in the adjacent section of gypsum board into the aforementioned 3 in. extension of the extra butt joint channels as well as into the main channel that runs between. Butt joint furring channels shall be attached with one RESILMOUNT Sound Isolation Clip at each end of the channel.
When **Steel Framing Members** (Item 6C) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 48 in. and centered over main furring channels. At the gypsum board butt joints, an additional single length of furring channel shall be installed and be spaced approximately 3 in. from the butt joint (6 in. from the continuous furring channels) to support the floating end of the gypsum board. Each of these shorter sections of furring channel shall extend one truss beyond the width of the gypsum panel and be attached to the adjacent trusses with one SonusClip at every truss involved with the butt joint.

AMERICAN GYPSUM CO — Types AG-C

GEORGIA-PACIFIC GYPSUM L L C — Type TG-C

7A. **Gypsum Board* —** (As an alternative to Item 7) — For use when no insulation is used. Nom 5/8 in. thick, 48 in. wide gypsum board, installed as described in item 7 with resilient channels (Item 6) spaced 24 in OC.

AMERICAN GYPSUM CO — Type AG-C

8. **Finishing System —** (Not Shown) — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum wallboard.

9. **Grille —** Installed in accordance with the installation instructions provided with the ceiling damper

10. **Discrete Products Installed in Air-handling Spaces* —** Automatic Balancing Valve/Damper — (Not Shown - Optional) — For use with item 5L, Ruskin Company's Model CFD7T damper (CABS). Ceiling damper to be provided with plenum box per damper manufacturer's instructions with side outlet only. Entire assembly to be installed into any UL Class 0 or Class 1 flexible air duct in accordance with the instructions provided by the automatic balancing valve/damper manufacturer.
METAL INDUSTRIES INC — Model ABV-4, ABV-5, ABV-6

PRINTS ISSUED
04/17/2024 - CITY SUBMISSION

REVISIONS:

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ARCHITECTURE
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DAVID EUGENE HENDRICKSE
04/17/2024

HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
UL ASSEMBLIES - P545

PROJECT NUMBER: 22023

SHEET NUMBER:
G-204

4/17/2024 4:44:55 PM

11. **Netting —** (Not shown) Fibrous, woven netting material fastened to underside of each joist with staples, with side joints overlapped.

12. **Netting —** (Not shown) - Non-woven polypropylene fabric fastened to underside of each joist with staples, with side joints overlapped. For use with Type AG-C gypsum boards only.

*** 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 2023-09-08

UL Product **iQ**®

UL Solutions

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

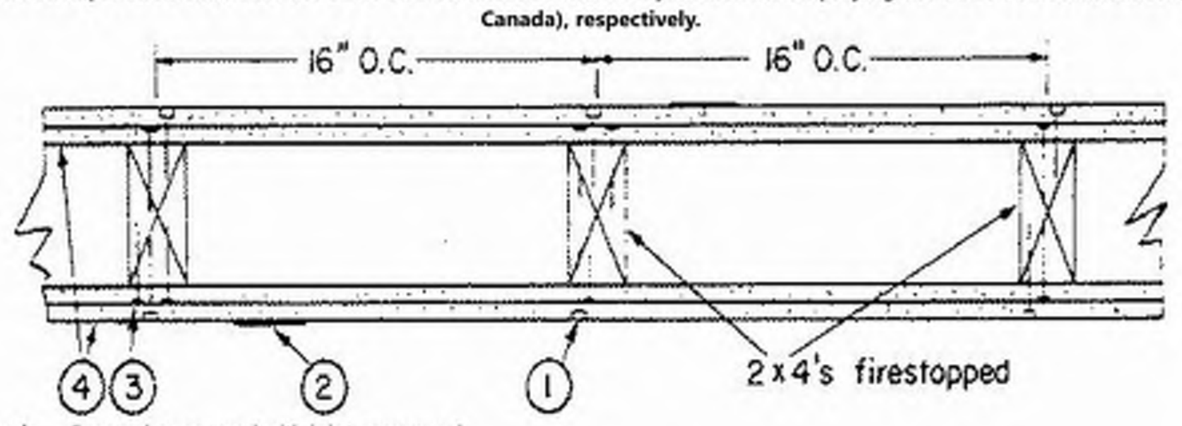
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. **U301**

September 19, 2023

Bearing Wall Rating — 2 Hr.
Finish Rating — 66 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.**



1. **Nailheads —** Exposed or covered with joint compound.

2. **Joints —** Exposed joints covered with joint compound and paper tape. Joint compound and paper tape may be omitted when square edge boards are used. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with the joints reinforced with paper tape.

3. **Nails —** 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam, 1/4 in. diam heads, and 8d cement coated nails 2-3/8 in. long, 0.113 in. shank diam, 9/32 in. diam heads.

4. **Gypsum Board* —** 5/8 in. thick, two layers applied either horizontally or vertically. Inner layer attached to studs with the 1-7/8 in. nails spaced 6 in. OC. Outer layer attached to studs over inner layer with the 2-3/8 in. long nails spaced 8 in. OC. Vertical joints located over studs. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side.
When used in widths other than 48 in., gypsum board to be installed horizontally.

When **Steel Framing Members*** (Item 6 or any alternate clips) are used, base layer attached to furring channels with 1 in. long Type S bugle-head steel screws spaced max 24 in. OC; face layer attached with 1-5/8 in. long Type S bugle-head steel screws spaced max 12 in. OC.

AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C, AGX-11, LightRoc

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1

CABOT MANUFACTURING ULC — Type X, 5/8 Type X, Moisture Resistant Type X, Gypsum Sheathing Type X, Mold & Mildew Resistant Type X and Mold & Mildew Resistant AR Type X, Type Blueglass Exterior Sheathing

CERTAINTEED GYPSUM INC — Types EGRG, GlasRoc, GlasRoc-2, Type C, Type X-1, Type LWTX

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

CERTAINTEED GYPSUM INC — Types LGFC2A, LGFC6A, LGFC-C/A, LGFC-WD, LGLLX, CLLX

GEORGIA-PACIFIC GYPSUM L L C — Types 5, 6, 9, C, DAP, DD, DA, DAPC, DGG, DS, GPFS6, LS, TG-C, Type X, Veneer Plaster Base-Type X, Water Rated-Type X, Sheathing Type-X, Soffit-Type X, GreenGlass Type X, Type LWX, Veneer Plaster Base-Type LWX, Water Rated-Type LWX, Sheathing Type-LWX, Soffit-Type LWX, Type DGLW, Water Rated-Type DGLW, Sheathing Type- DGLW, Soffit-Type DGLW, Type LW2X, Veneer Plaster Base - Type LW2X, Water Rated - Type LW2X, Sheathing - Type LW2X, Soffit - Type LW2X, Type DGL2W, Water Rated - Type DGL2W, Sheathing - Type DGL2W

NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSW, FSW-3, FSW-5, FSW-6, FSW-8, FSW-C, FSW-G, FSMR-C, FSL, RSX

NATIONAL GYPSUM CO — Riyadh, Saudi Arabia — Type FR, or WR.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types C, PG-2, PG-3, PG-3W, PG-4, PG-5, PG-5W, PG-5WS, PG-9, PG-11, PG-C, PGS-WRS, PGI

PANEL REY S A — Types PRC, PRC2, PRX, RHX, MDX, ETX, GREX, GRIX

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1

THAI GYPSUM PRODUCTS PCL — Type C or Type X

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

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

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

4A. **Gypsum Board* —** (As an alternate to Item 4) — Nom 3/4 in. thick, installed as described in Item 4.
CGC INC — Types AR, IP-AR

UNITED STATES GYPSUM CO — Types AR, IP-AR

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

4B. **Gypsum Board* —** (As an alternate to Items 4 and 4A) — 5/8 in. thick, 2 ft wide, tongue and groove edge, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 4. Joint covering (Item 2) not required.
CGC INC — Type SHX

UNITED STATES GYPSUM CO — Type SHX

USG MEXICO S A DE C V — Type SHX

4C. **Gypsum Board* —** (As an alternate to Items 4, 4A or 4B — Not Shown) — For Direct Application to Studs Only- For use on one or both sides of the wall as the base layer or one or both sides of the wall as the face layer. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field when applied as the base layer. When applied as the face layer screw length to be increased to 2-1/2 in. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-12 pan head steel screws, F4j.one at the top of the strip and one at the bottom of the strip. Lead discs or tabs may be used in lieu of or in addition to the lead batten strips or optional at other locations. Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards underneath screw locations prior to the installation of the screws. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Fasteners for face layer gypsum panels (Items 4, 4A or 4B) when installed over lead backed board to be min 2-1/2 in. Type S-12 bugle head steel screws spaced as described in Item 4.
RAY-BAR ENGINEERING CORP — Type RB-LBG.

4D. **Gypsum Board* —** As an Alternate to Item 4 — 5/8 in. thick applied either horizontally or vertically. Inner layers 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. Outer layers fastened to framing with 1-7/8 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. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side.
AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C, LightRoc

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

4F. **Gypsum Board* —** (As an alternate to Item 4) — Not to be used with item 6, 6A, 6B or 6C. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically and secured as described in Item 4.
NATIONAL GYPSUM CO — Type SBWB

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

4H. **Gypsum Board* —** (As an alternate to Item 4) — Not to be used with item 6, 6A, 6B, or 6C. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically or horizontally and secured as described in Item 4.
CERTAINTEED GYPSUM INC — Type SilentFX

4I. **Gypsum Board* —** (As an alternate to item 4) — 5/8 in. thick, two layers applied either horizontally or vertically. Inner layer attached to studs with 1-1/4 in. long Type W steel screws spaced 8 in. OC. Outer layer attached to studs over inner layer with 2 in. long Type W steel screws spaced 8 in. OC offset 6 in. from base layer. Vertical joints located over studs. Vertical and horizontal joints between inner and outer layers staggered. Outer layer joints covered with joint tape and compound, screwheads covered with joint compound. As an alternate to the joint compound nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced. Wallboard other than 48 in. wide must be applied horizontally. The SoundBreak XP Type X Gypsum Board is not to be used with Item 6, 6A, 6B, or 6C.
NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSW, FSW-3, FSW-5, FSW-6, FSW-C, FSW-G, FSMR-C, SBWB

4J. **Gypsum Board* —** (As an alternate to Items 4) — For Direct Application to Studs Only- For use as the base layer or as the face layer. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field when applied as the base layer. When applied as the face layer screw length to be increased to 2-1/2 in. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, max 5/16 in. diam by max 0.140 in. thick. compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Fasteners for face layer gypsum panels (Items 4, 4A or 4B) when installed over lead backed board to be min 2-1/2 in. Type S-12 bugle head steel screws spaced as described in Item 4.
MAYCO INDUSTRIES INC — "X-Ray Shielded Gypsum"

4K. **Gypsum Board* —** For use with Item 7 — 5/8 in. thick, two layers applied vertically. Inner layer attached to resilient channels with 1 in. long steel screws spaced 8 in. OC. Outer layer attached to resilient channels over inner layer with 1-5/8 in. long steel screws spaced 8 in. OC. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side. Insulation, Items 8 or 9 is required.
AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C, AGX-11

NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSW, FSW-3, FSW-5, FSW-6, FSW-C, FSW-G, FSMR-C, SBWB.

4L. **Gypsum Board* —** (As an alternate to Items 4) — For Direct Application to Studs Only- For use as the base layer or as the face layer. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field when applied as the base layer. When applied as the face layer screw length to be increased to 2-1/2 in. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Fasteners for face layer gypsum panels (Items 4, 4A or 4B) when installed over lead backed board to be min 2-1/2 in. Type S-12 bugle head steel screws spaced as described in Item 4.
RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

4M. **Gypsum Board* —** (As an alternate to Item 4) — 5/8 in. thick, 4 ft. wide, two layers applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Secured as described in Item 4.
CERTAINTEED GYPSUM INC — 5/8" Easi-Lite Type X

4N. **Gypsum Board* —** (As an alternate to 5/8 in. Type FSW in Items 4 or 4I) — Nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Two layers of 5/16 in. for every single layer of 5/8 in. gypsum board described in Item 4 or 4I. Horizontal joints on the same side need not be staggered. Inner layer of each double 5/16 in. layer attached with fasteners, as described in item 4 or 4I, spaced 24 in. OC. Outer layer of each double 5/16 in. layer attached per Item 4 or 4I.
NATIONAL GYPSUM CO — Type FSW

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

4P. **Gypsum Board* —** (As an alternate to Item 4) — 5/8 in. thick, two layers applied either horizontally or vertically. Inner layer attached to studs with 1-1/4 in. long Type W steel screws spaced 10 in. OC with the last two screws 4 and 1 in. from the edges of the board. Outer layer attached to studs over inner layer with 1-7/8 in. long Type W steel screws spaced 10 in. OC offset 5 in. from base layer with the last two screws 4 and 1 in. from the edges of the board. Vertical joints located over studs. Vertical and horizontal joints between inner and outer layers staggered. Outer layer joints covered with joint tape and compound, screwheads covered with joint compound. When used in widths other than 48 in., gypsum panels are to be installed horizontally.
CERTAINTEED GYPSUM INC — Type LGFC6A, Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX

4Q. **Gypsum Board* —** (As an alternate to Item 4. For use with Item 13) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board UL Classified for Fire Resistance (CKNX) eligible for use in Design Nos. U305 and L501 or G512. Two layers, applied either horizontally or vertically, and screwed to studs with 1-5/8 in. long Type W coarse thread steel screws at 8 in. OC at perimeter and in the field with the last two screws 4 and 3/4 in. from the edges of the board when applied as the base layer. For the face layer, screw length to be increased to 2-1/2 in. All joints in face layers staggered with joints in base layers. When used in widths other than 48 in., gypsum panels are to be installed horizontally.

4R. **Gypsum Board* —** As an Alternate to Item 4 — 5/8 in. thick applied either horizontally or vertically. Inner layers 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. Outer layers fastened to framing with 1-7/8 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. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side.

CERTAINTEED GYPSUM INC — Types EGRG, GlasRoc, GlasRoc-2, Type C, Type X-1, Easi-Lite Type X, SilentFX

4S. **Gypsum Board* —** (As an alternate to Item 4. For use with Item 13A) — 5/8 in. thick, two layers applied vertically. Inner layer attached to studs with the 1-7/8 in. nails spaced 6 in. OC. Outer layer attached to studs over inner layer with the 2-3/8 in. long nails spaced 8 in. OC. Vertical joints located over studs. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side.
AMERICAN GYPSUM CO — Types AGX-1

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1

CABOT MANUFACTURING ULC — "5/8 Type X"

CGC INC — Type SCX

PANEL REY S A — Type PRX

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1

THAI GYPSUM PRODUCTS PCL — Type X

UNITED STATES GYPSUM CO — Type SCX

USG BORAL DRYWALL SFZ LLC — Types SCX

USG MEXICO S A DE C V — Type SCX

4T. **Gypsum Board* —** (As an alternate to Item 4. For use with Item 13B) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 4 above. Two layers applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. All joints in outer layers staggered with joints in inner layers. Inner layer attached to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field. Outer layer attached to studs over inner layer with the 2-1/2 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC.

4U. **Gypsum Board* —** (As an alternate to Item 4. For use with Item 13C) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 4 above. Two layers applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. All joints in outer layers staggered with joints in inner layers. Inner layer attached to studs with 1-1/4 in. long Type W screws spaced 8 in. OC at perimeter and in the field. Outer layer attached to studs over inner layer with 1-7/8 in. long Type W screws spaced 8 in. OC.

5. **Molded Plastic* —** Not Shown, Optional — Solid vinyl siding mechanically secured over the outer layer to framing members in accordance with manufacturer's recommended installation details.
ALSIDE, DIV OF ASSOCIATED MATERIALS INC

GENTEK BUILDING PRODUCTS LTD

VYTEC CORP

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 4.

B. **Steel Framing Members* —** Used to attach furring channels (Item 6a) 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)

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. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4.

B. **Steel Framing Members* —** Used to attach furring channels (Item 6Aa) 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

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 6Bb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4.

B. **Steel Framing Members* —** Used to attach furring channels (Item 6Ba) to studs. Clips spaced 48 in. OC., and secured to studs with 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
REGUPOL AMERICA — Type SonusClip

6C. **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 4.

b. **Steel Framing Members* —** Used to attach resilient 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. 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

6D. **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

6E **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. 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 4.

b **Steel Framing Members* —** Used to attach furring channels (Item 6Ea) 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. **Furring Channel —** Optional — Not Shown — For use on one side of the wall with Item 4K — Resilient channels, 25 MSG galv steel, spaced vertically 24 in. OC, flange portion screw attached to one side of studs with 1-1/4 in. long diamond shaped point, double lead Phillips head steel screws. When resilient channels are used, insulation, Item 8 or 9 is required.

8. **Batts and Blankets* —** Required for use with resilient channels, Item 7, min. 3 in. thick mineral wool batts, placed to fill interior of wall, attached to the nom 4 in. face of the studs with staples placed 24 in. OC.
ROCKWOOL — Type SAFEnSOUND, min. 1.8 pcf.

PRINTS ISSUED
04/17/2024 - CITY SUBMISSION

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DAVID EUGENE HENDRIKSE
NUMBER A-7305
REGISTERED ARCHITECT
04/17/2024

HOME2 SUITES BY HILTON

LEE'S SUMMIT, MO

SHEET TITLE
UL ASSEMBLIES - P545 / U301

PROJECT NUMBER: 22023

SHEET NUMBER:

G-205

UL Product iQ®

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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

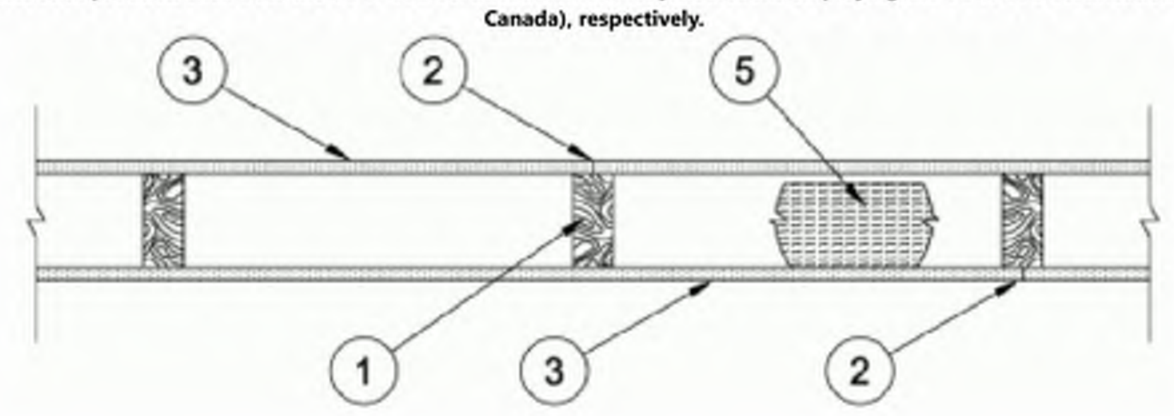
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

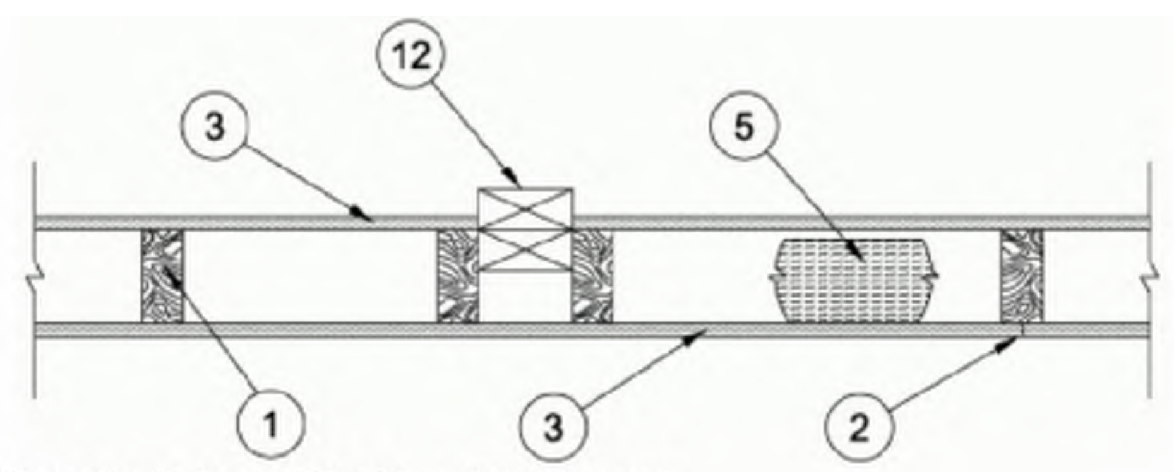
Design No. **U305**

September 19, 2023

Bearing Wall Rating — 1 Hr
Finish Rating — See Items 3, 3A, 3D, 3E, 3F, 3G, 3H, 3J and 3L.
STC Rating - 56 (See Item 9)
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 max, effectively firestopped.

2. **Joints and Nail-Heads —** Joints covered with joint compound and paper tape. Joint compound and paper tape may be omitted when square edge boards are used. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with the joints reinforced with paper tape. Nailheads exposed or covered with joint compound.

3. **Gypsum Board* —** 5/8 in. thick paper or vinyl surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. When used in widths other than 48 in., gypsum panels are to be installed horizontally. For an alternate method of attachment of gypsum panels, refer to Items 6 through 6F, **Steel Framing Members***.
When Items 6, 6B, 6C, 6D, 6E, or 6F, **Steel Framing Members***, are used, gypsum panels attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC.

When Item 6A, **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. One layer of gypsum board attached to opposite side of wood stud without furring channels as described in Item 3.

When Item 7, resilient channels are used, 5/8 in. thick, 4 ft wide gypsum panels applied vertically. Screw attached furring channels with 1 in. long, self-drilling, self-tapping Type S or S-12 steel screws spaced 8 in. OC, vertical joints located midway between studs.

AMERICAN GYPSUM CO — Types AGX-1(finish rating 23 min.), M-Glass (finish rating 23 min.), Type AGX-11 (finish rating 26 min), Type AGX-12 (finish rating 22 min), Type LightRoc (finish rating 23 min.) or Type AG-C

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1 (finish rating 24 min)

CABOT MANUFACTURING ULC — Type X (finish rating 22 min), 5/8 Type X, Moisture Resistant Type X, Gypsum Sheathing Type X, Mold & Mildew Resistant Type X and Mold & Mildew Resistant AR Type X, Type Blueglass Exterior Sheathing

CERTAINTEED GYPSUM INC — Type C, Type X-1 (finish rating 26 min); Type EGRG or GlasRoc (finish rating 23 min), GlasRoc-2, Type Habito (finish rating 26 min), Type LWTX (finish rating 18 min), Type LGFC6A (finish rating 34 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX (finish rating 21 min), Type CLLX (finish rating 24 min)

CGC INC — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type ULX (finish rating 22 min), Type WRC (finish rating 24 min), Type WRX (finish rating 24 min), Type ULIX (finish rating 20 min)

GEORGIA-PACIFIC GYPSUM L L C — Type 5 (finish rating 26 min), Type 6 (finish rating 23 min), Type 9 (finish rating 26 min), Type C (finish rating 26 min), Type DGG (finish rating 20 min), Type GPFS1 (finish rating 20 min), Type GPFS2 (finish rating 20 min), Type GPFS6 (finish rating 26 min), Type DS, Type DAP, Type DD (finish rating 20 min), Type DA, Type DAPC, Type LS (finish rating 23 min), Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, Type LWX (finish rating 22 min), Veneer Plaster Base-Type LWX (finish rating 22 min), Water Rated-Type LWX (finish rating 22 min), Sheathing Type-LWX (finish rating 22 min), Soffit-Type LWX (finish rating 22 min), Type DGLW (finish rating 22 min), Water Rated-Type DGLW (finish rating 22 min), Sheathing Type- DGLW (finish rating 22 min), Soffit-Type DGLW (finish rating 22 min), Type LWX (finish rating 22 min), Type LW2X (finish rating 22 min), Veneer Plaster Base - Type LW2X (finish rating 22 min), Water Rated - Type LW2X (finish rating 22 min), Sheathing - Type LW2X (finish rating 22 min), Soffit - Type LW2X (finish rating 22 min), Type DGL2W (finish rating 22 min), Water Rated - Type DGL2W (finish rating 22 min), Sheathing - Type DGL2W (finish rating 22 min)

NATIONAL GYPSUM CO — Type FSK (finish rating 20 min), Type FSK-G (finish rating 20 min), Type FSW (finish rating 20 min), Type FSW-2 (finish rating 24 min), Type FSW-3 (finish rating 20 min), Type FSW-5 (finish rating 22 min), Type FSW-G (finish rating 20 min), Type FSK-C (finish rating 20 min), Type FSW-C (finish rating 20 min), Type FSMR-C, Type FSW-6 (finish rating 20 min), Type FSL (finish rating 24 min), Type FSW-8, Type FSLX (finish rating 21 min), Type RSX (finish rating 26 min).

NATIONAL GYPSUM CO — Riyadh, Saudi Arabia — Type FR, or WR.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types C, PG-2 (finish rating 20 min), PG-3 (finish rating 20 min), Types PG-3W, PG-5W (finish rating 20 min), Type PG-4 (finish rating 20 min), Type PG-6 (finish rating 23 min), Types PG-3WS, PG-5WS, PGS-WRS (finish rating 20 min), Types PG-5, PG-9 (finish rating 26 min), PG-11 PG-13 (Nails increased to 2 in.), Type PG-C or PGI (finish rating 26 min)

PANEL REY S A — Type ARX, GREX, GRIX, PRX, PRC, PRC2; Types RHX, Guard Rey, MDX, ETX (finish rating 22 min), PRX2 (finish rating 21 min)

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1 (finish rating 26 min)

THAI GYPSUM PRODUCTS PCL — Type C, Type X (finish rating 26 min)

UNITED STATES GYPSUM CO — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type FRX-G (finish rating 29 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type SCX (finish rating 24 min), Type SGX (finish rating 24 min), Type ULX (finish rating 22 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type ULIX (finish rating 20 min)

USG BORAL DRYWALL SFZ LLC — Type SGX (finish rating 24 min).

USG MEXICO S A DE C V — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), SCX (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type ULX (finish rating 22 min)

3A. **Gypsum Board* —** (As an alternate to Item 3) — 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.), LighttRoc (finish rating 25 min.)

CERTAINTEED GYPSUM INC — Type C, Type X-1 (finish rating 26 min), Type EGRG or GlasRoc, LWTX.

CGC INC — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type WRC (finish rating 24 min), Type WRX (finish rating 24 min)

NATIONAL GYPSUM CO — Type FSW (finish rating 24 min)

UNITED STATES GYPSUM CO — Type AR (finish rating 24 min), Type SCX (finish rating 24 min), Type SGX (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type FRX-G (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min)

USG BORAL DRYWALL SFZ LLC — Types C, SCX, SGX (finish rating 24 min).

USG MEXICO S A DE C V — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type SCX, Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min)

3B. **Gypsum Board* —** (As an alternate to Item 3) — Nom 3/4 in. thick, installed with 1-7/8 in. long cement coated nails as described in Item 3 or 1-3/8 in. long Type W coarse thread gypsum panel steel screws as described in Item 3A.
CGC INC — Types AR, IP-AR

UNITED STATES GYPSUM CO — Types AR, IP-AR

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

3C. **Gypsum Board* —** (As an alternate to Items 3, 3A and 3B) — 5/8 in. thick, 2 ft wide, tongue and groove edge, applied horizontally to one side of the assembly. Installed with 1-7/8 in. long cement coated nails as described in Item 3 or 1-1/4 in. long Type W coarse thread gypsum panel steel screws as described in Item 3A. Joint covering (Item 2) not required.
CGC INC — Type SHX

UNITED STATES GYPSUM CO — Type SHX

USG MEXICO S A DE C V — Type SHX

3D. **Gypsum Board* —** (As an alternate to Items 3, 3A, 3B, or 3C — Not Shown) — For Direct Application to Studs Only- Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs or tabs may be used in lieu of or in addition to the lead batten strips or optional at other locations. Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards underneath screw locations prior to the installation of the screws. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".
RAY-BAR ENGINEERING CORP — Type RB-LBG (finish rating 24 min)

3E. **Gypsum Board* —** (As an alternate to Items 3, 3A, 3B, 3C, and 3D) — 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 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. When used in widths of other than 48 in., gypsum boards are to be installed horizontally.
GEORGIA-PACIFIC GYPSUM L L C — Type DGG (finish rating 20 min), GreenGlass Type X (finish rating 23 min)

3F. **Gypsum Board* —** (As an alternate to Items 3, 3A, 3B, 3C, 3D, and 3E) — 5/8 in. glass-mat faced with square edges, applied either horizontally or vertically. Gypsum panels nailed 7 in. OC around the perimeter and in the field with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Nails shall be placed 1 inch and 3 inch from horizontal joints and 7 inch OC thereafter.
CGC INC — Type USGX (finish rating 22 min)

UNITED STATES GYPSUM CO — Type USGX (finish rating 22 min.)

USG BORAL DRYWALL SFZ LLC — , Type USGX (finish rating 22 min.)

USG MEXICO S A DE C V — Type USGX (finish rating 22 min.)

3G. **Gypsum Board* —** (As an alternate to Items 3 through 3F) — 5/8 in. thick paper surfaced applied vertically. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads.
GEORGIA-PACIFIC GYPSUM L L C — Type X ComfortGuard Sound Deadening Gypsum Board (finish rating 27 min)

3H. **Gypsum Board* —** (As an alternate to Items 3) — Not to be used with items 6 or 7. 5/8 in. thick paper surfaced applied vertically only. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads.
NATIONAL GYPSUM CO — Type SBWB

3I. **Gypsum Board* —** (As an alternate to Items 3 through 3H, Not Shown) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically. Panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Panel joints covered with paper tape and two layers of joint compound. Nailheads covered with two layers of joint compound.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock ES (finish rating 20 min)

3J. **Gypsum Board* —** (As an alternate to Item 3) — 5/8 in. thick paper surfaced applied vertically or horizontally. Gypsum panels secured with 1-1/4 in. Type W coarse thread gypsum panel steel screws spaced a maximum of 12 in. OC.
CERTAINTEED GYPSUM INC — Type SilentFX

3K. **Gypsum Board* —** (As an alternate to Item 3) — 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 8 in. OC with the last screw 1 in. from the edge of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally.
NATIONAL GYPSUM CO — Type FSK (finish rating 20 min), Type FSK-G (finish rating 20 min), Type FSW (finish rating 20 min), Type FSW-2 (finish rating 24 min), Type FSW-3 (finish rating 20 min), Type FSW-5 (finish rating 22 min), Type FSW-G (finish rating 20 min), Type FSK-C (finish rating 20 min), Type FSW-C (finish rating 20 min), Type FSMR-C, Type FSW-6 (finish rating 20 min), Type FSL (finish rating 24 min).

3L. **Gypsum Board* —** (As an alternate to Item 3) — For Direct Application to Studs Only — Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, max 5/16 in. diam by max 0.140 in. thick, compression fitted or adhered over the screw heads. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D".
MAYCO INDUSTRIES INC — "X-Ray Shielded Gypsum"

3M. **Gypsum Board* —** (As an alternate to Items 3) — For Direct Application to Studs Only — For use as the base layer or as the face layer. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field when applied as the base layer. When applied as the face layer screw length to be increased to 2-1/2 in. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Fasteners for face layer gypsum panels (Items 4, 4A or 4B) when installed over lead backed board to be min 2-1/2 in. Type S-12 bugle head steel screws spaced as described in Item 4.
RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

3N. **Gypsum Board* —** (As an alternate to Item 3) — 5/8 in. thick, 4 ft. wide, applied horizontally or vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Secured as described in Item 3 or 3A.
CERTAINTEED GYPSUM INC — Easi-Lite Type X (finish rating 24 min), Easi-Lite Type X-2 (finish rating 24 min)

3O. **Wall and Partition Facings and Accessories* —** (As an alternate to Item 3, Not Shown) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically. Panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Panel joints covered with paper tape and two layers of joint compound. Nailheads covered with two layers of joint compound.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527 (finish rating 24 min).

3P. **Gypsum Board* —** (As an alternate to Item 3, Not Shown) — Two layers nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by wood studs. Horizontal joints on the same side between face and base layers need not be staggered. Base layer gypsum panels fastened to studs with 1-1/4 in. long drywall nails spaced 8 in. OC. Face layer gypsum panels fastened to studs with 1-7/8 in. long drywall nails spaced 8 in. OC starting with a 4" stagger.
NATIONAL GYPSUM CO — Type FSW (finish rating 25 min)

3Q. **Gypsum Board* —** (As an alternate to Item 3) — 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

3R. **Gypsum Board* —** (As an alternate to Item 3. For use with Item 5H) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 3 above. Applied either horizontally or vertically, and screwed to panels with 1-5/8 in. long Type W coarse thread steel screws at 8 in. OC at perimeter and in the field with the last two screws 4 and 3/4 in. from the edges of the board when applied as the base layer. When used in widths other than 48 in., gypsum panels are to be installed horizontally.

3S. **Gypsum Board* —** 3/4 in. thick paper or vinyl surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels secured as described in Item 3 with nail length increased to 2 in.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-13

3T. **Wall and Partition Facings and Accessories* —** (As an alternate to 5/8 in. thick board as outlined in Item 3) — Nominal 1-3/8 in. thick, 4 ft wide panels, applied vertically or horizontally. Fastened with #6 x 2 in. long drywall screws spaced 8 in. OC along the perimeter and 12 in. OC in the field.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 545

3U. **Gypsum Board* —** (As an alternate to Item 3 - For use with Foamed Plastic products, Item 5J) — 5/8 in. thick, 4 ft. wide, applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads.
AMERICAN GYPSUM CO — Types AGX-1

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1

CABOT MANUFACTURING ULC — Type X

CERTAINTEED GYPSUM INC — Type X

CGC INC — Type SCX

PANEL REY S A — Type ARX, PRX

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1

THAI GYPSUM PRODUCTS PCL — Type X

UNITED STATES GYPSUM CO — Types SCX and SGX

USG BORAL DRYWALL SFZ LLC — Types SCX and SGX

USG MEXICO S A DE C V — Type SCX

3V. **Gypsum Board* —** (As an alternate to Item 3. For use with Item 5K) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 3 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field.

3W. **Gypsum Board* —** (As an alternate to Item 3. For use with Item 5L) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 3 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1-1/4 in. long Type W screws spaced 8 in. OC at perimeter and in the field.

4. **Steel Corner Fasteners —** (Optional) — For use at wall corners. Channel shaped, 2 in. long by 1 in. high on the back side with two 1/8 in. wide cleats protruding into the 5/8 in. wide channel, fabricated from 24 gauge galv steel. Fasteners applied only to the end or cut edge (not along tapered edges) of the gypsum board, no greater than 2 in. from corner of gypsum board, max spacing 16 in. OC. Nailed to adjacent stud through tab using one No. 6d cement coated nail per fastener. Corners of wall board shall be nailed to top and bottom plate using No. 6d cement coated nails.

5. **Batts and Blankets* —** (Optional — Required when Item 6A is used (RC-1)) — Glass fiber or mineral wool insulation. Placed to completely or partially fill the stud cavities. When Item 6A is used, glass fiber or mineral wool insulation shall be friction-fitted to completely fill the stud cavities.
CERTAINTEED CORP

THERMAFIBER INC — Type SAFB, SAFB FF

9. **Batts and Blankets* —** (As an alternate to Item 8) — Min. 3 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, friction-fitted to fill the stud cavities. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

9A. **Fiber, Sprayed* —** (Optional) — As an alternate to Batts and Blankets (Item 8), Required for use with resilient channels, Item 7, Not for use with Item 6, 6A, 6B, or 6C. — Spray applied mineral wool insulation. 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

10. **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 or QR-510

11. **Cementitious Backer Units* —** (Optional Item Not Shown — For Use On Face Of 2 Hr Systems With All Standard Items Required) — 7/16 in., 1/2 in., 5/8 in., 3/4 in. or 1 in. thick, min. 32 in. wide. Applied horizontally or vertically with vertical joints centered over studs. Face layer fastened over gypsum board to studs and runners with cement board screws of adequate length to penetrate stud by a minimum of 3/8 in. for steel framing members, and a minimum of 3/4 in. for wood framing members spaced a max of 8 in. OC.
NATIONAL GYPSUM CO — Type DuraBacker, PermaBase, DuraBacker Plus, or PermaBase Plus

12. **Wall and Partition Facings and Accessories* —** (Optional, Not Shown) - When the Wall Assembly is used as an External Wall, on the External side of the wall one of the following Wall and Partition and Facing Accessories may be used, refer to items (A) to (C) below.
A. **Non Insulated system with metal channels —** Install moisture barrier over the Gypsum Board Item 4 and Install Acry Metal Channels vertically at a horizontal spacing not greater than 24 inches OC., over the moisture barrier. Acry Metal Channels attached through the moisture barrier and the Gypsum Board to the Wood Studs using fasteners specified by the manufacturer and fasteners spaced max., 24 in. OC. Install Acrytec Panels on Acry Metal Channels using 1-1/4" long corrosion coated stainless steel screws spaced at a max spacing of 24 inches OC, along with manufacturer's approved adhesive (3M 540 or Tremco Vulcum 116). Adhesive to be applied in a zigzag pattern along every channel. Joint treatment in between panels shall be Tremco illmod 600 pre compressed polyurethane foam sealant.

B. **Insulated system with metal channels —** Install moisture barrier over the Gypsum Board Item 4. Install galvanized Z girt channels specified by the manufacturer over the moisture barrier and the Gypsum Board Item 4. Z girt channels to be installed horizontally at a max. spacing of 24" OC. Z girt channels attached through the Gypsum Board and the moisture barrier to the wood studs with screws provided by the manufacturer at a max spacing of 24 inches OC. Install mineral wool insulation between the Z girts. Maximum thickness of mineral wool insulation not to exceed 6 in. As per manufacturer's instructions install Acry Metal Channels vertically over the Z girts at a max horizontal spacing of 24 in. OC. Acrytec Panels installed on Acry channel with 1-1/4" long corrosion coated stainless steel screws at a max spacing of 24 in. OC, along with manufacturers approved adhesive (3M 540 or Tremco Vulcum 116). Adhesive to be applied in a zigzag pattern along every channel. Joint treatment in between panels to be Tremco illmod 600 pre compressed polyurethane foam sealant.

C. **Non insulated wood strapping system —** Install moisture barrier over the Gypsum Board Item 4 and Install 1" x 3" wood strapping vertically at a horizontal spacing not greater than 24 inches OC., over the moisture barrier. 1" x 3" wood strapping attached through the moisture barrier and the Gypsum Board to the Wood studs using fasteners specified by the manufacturer and fasteners spaced max., 24 in. OC. Acrytec Panels to be installed on the 1" x 3" wood strapping using manufacturers approved stainless steel fasteners spaced at maximum 24 inches OC along with Tremco Vulcum 116 adhesive applied in a zigzag pattern along every wood strap. Joint treatment in between panels to be Tremco illmod 600 pre compressed polyurethane foam sealant.

D. **Insulated Wood Strapping System —** Install moisture barrier over the Gypsum Board Item 4. Install Extruded Polystyrene Insulation over moisture barrier and the Gypsum Board Item 4, max thickness of insulation not to exceed 4 inches. Install 1" x 3" wood strapping vertically at a horizontal spacing not greater than 24 inches OC. Wood strapping attached through the Insulation, the Gypsum Board and moisture barrier to the Wood Studs using fasteners specified by the manufacturer and fasteners spaced max. 24 in. OC. Acrytec Panels to be installed over the wood strapping using manufacturers approved stainless steel fasteners at a max spacing of 24 in. OC and Tremco Vulcum 116 adhesive applied in a zigzag pattern along every wood strap. Joint treatment in between panels to be Tremco illmod 600 pre compressed polyurethane foam sealant.

ACRYTEC PANEL INDUSTRIES — Nominal 5/8 inch thick Acrytec Panel.

13. **Foamed Plastic* —** (Optional, Not Shown - For use with Item 4Q) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.
SES FOAM INC — Nexseal™ 2.0 or Nexseal™ 2.0 LE Spray Foam and Sucraseal Spray Foam. For use in Bearing and Non-Load Bearing Walls.

13A. **Foamed Plastic* —** (Optional, Not Shown - For use with Item 4S) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.
HOLCIM SOLUTIONS AND PRODUCTS US, LLC — Types GacoEZSpray F4500, GacoProFill FR6500R, Gaco 052N, GacoOnePass F1850, GacoOnePass Low GWP F1880, and Gaco WallFoam 183M.

13B. **Foamed Plastic* —** (Optional, Not Shown - For use with Item 4T) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.
CARLISLE SPRAY FOAM INSULATION — Types SealTite ONE, SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro One Zero, Foamsulate Closed Cell, Foamsulate OCX, Foamsulate 70, and Foamsulate HFO.

13C. **Foamed Plastic*** - (Optional, Not Shown – For use with Item 4U) - Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.

BASF CORP – Types Enertite® NM, Enertite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US , Walltite® US-N, Walltite® HP+, Spraytite® Comfort XL, and Walltite® XL

14. **Foamed Plastic* —** (Optional, Not Shown - For use over Gypsum Board, Item 4) - Polyisocyanurate foamed plastic boards, any thickness applied vertically with vertical joints located over studs. May be used with Molded Plastic, Item 5 or any exterior facing, as authorized by the Authority Having Jurisdiction and installed in accordance with the manufacturer's installation instructions.
HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — "Xci Class A", "Xci 286", "Xci Foil (Class A)", "Xci CG", "Xci Foil", "Xci CG NH", "Xci Foil NH"

15. **Building Units* —** (Optional, Not Shown - For use over Gypsum Board, Item 4) Polyisocyanurate composite foamed plastic boards, any thickness, applied vertically with vertical joints located over studs. May be used with Molded Plastic, Item 5 or any exterior facing, as authorized by the Authority Having Jurisdiction and installed in accordance with the manufacturer's installation instructions.
HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — "Xci NB", "Xci Ply"

16. **Building Units –** (Optional Item Not Shown – For use over Gypsum Board, Item 4) 1 in., 2 in. or 3 in. thick, 4 ft. wide – Applied vertically or horizontally with vertical joints centered over studs. Fastened to studs and runners with wafer head screws of adequate length to penetrate framing by a minimum of of ¾ in., spaced a max 8 in. o.c.

NATIONAL GYPSUM CO – Type PBCI

*** 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 2023-09-19

PRINTS ISSUED
04/17/2024 - CITY SUBMISSION

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DENVER ▲ KANSAS CITY ▲ ST. LOUIS ▲ ATLANTA

STATE OF MISSOURI
DAVID EUGENE HENDRIKSE
NUMBER A-7305
REGISTERED ARCHITECT
04/17/2024

HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
UL ASSEMBLIES - U301 / U305

PROJECT NUMBER: 22023

SHEET NUMBER:

G-206

JOHNS MANVILLE

KNAUF INSULATION LLC

MANSON INSULATION INC

ROCKWOOL — Types Acoustical Fire Batts and Type AFB, min. density 1.69 pcf / 27.0 kg/m^3

ROCKWOOL MALAYSIA SDN BHD — Type Acoustical Fire Batts

ROCK WOOL MANUFACTURING CO — Delta Board

THERMAFIBER INC — Type SAFB, SAFB FF

5A. **Fiber, Sprayed*** — (Not Shown — Not for use with Item 6) — 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. When Item 6B is used, Fiber, Sprayed shall be INS735, INS745, INS750LD, INS765LD, INS773LD or SANCTUARY.

Applegate Greenfiber Acquisition LLC — Insulmax and SANCTUARY for use with wet or dry application. INS515LD and INS541LD are to be used for dry application only

5B. **Fiber, Sprayed*** — (Not Shown - Not for use with Item 6) — As an alternate to Batts and Blankets (Item 5) - 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 resilient channels, Item 7, 3 in. thick mineral wool batts, friction-fitted to fill interior of wall.
THERMAFIBER INC — Type SAFB, SAFB FF

5D. **Glass Fiber Insulation** — (As an alternate to Item 5C) — 3 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, friction-fitted to fill the interior of the wall. See **Batts and Blankets** (BKNV or BZJZ) Categories for names of Classified companies.

5E. **Batts and Blankets*** — (Required for use with Wall and Partition Facings and Accessories, Item 3D) — 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.

5F. **Fiber, Sprayed*** — (Optional, Not Shown — Not for use with Items 6, 6A, 6B, 6C, or 6D) — As an alternate to Batts and Blankets (Item 5) and Item 5A - 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

5G. **Fiber, Sprayed*** — (Optional, Not Shown — Not for use with Items 6, 6A, 6B, 6C, or 6D). — As an alternate to Batts and Blankets (Item 5) and Item 5A - Brown Colored Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed stud 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

5H. **Foamed Plastic*** — (Optional -For use with Item 3R) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.
SES FOAM INC — Nexseal™ 2.0 or Nexseal™ 2.0 LE Spray Foam and Sucraseal Spray Foam.

5I. Deleted.

5J. **Foamed Plastic*** — (Optional, Not Shown - For use with Item 3U) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.
HOLCIM SOLUTIONS AND PRODUCTS US, LLC — Types GacoEZSpray F4500, GacoProFill FR6500R, Gaco 052N, GacoOnePass F1850, GacoOnePass Low GWP F1880, and Gaco WallFoam 183M

5K. **Foamed Plastic*** — (Optional, Not Shown - For use with Item 3V) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.
CARLISLE SPRAY FOAM INSULATION — Types SealTite ONE, SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro One Zero, Foamsulate Closed Cell, Foamsulate OCX, Foamsulate 70, and Foamsulate HFO.

5L. **Foamed Plastic*** - (Optional, Not Shown – For use with Item 3W) - Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.

BASF CORP – Types Enertite® NM, Enertite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, Walltite® HP+, Spraytite® Comfort XL, and Walltite® XL.

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. Gypsum board attached to furring channels as described in Item 3.

b. **Steel Framing Members*** — Used to attach furring channels (Item 6a) to studs. Clips spaced 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. RSIC-V and RSIC-V (2.75) 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. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75)

6A. **Steel Framing Members*** — (Optional, Not Shown) — Furring channels and Steel Framing Members on one side of studs 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. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 3.

b. **Steel Framing Members*** — Used to attach furring channels (Item 6Aa) to one side of studs only. 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

6B. **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. 2-3/8 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 3.

b. **Steel Framing Members*** — Used to attach furring channels (Item 6Ba) 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

6C. **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. 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 3.

b. **Steel Framing Members*** — Used to attach furring channels (Item 6Ca) to studs. Clips spaced 48 in. OC., and secured to studs with No. 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 A237 or A237R

6D. **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, 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 a double strand of No. 18 AWG twisted steel wire. Gypsum board attached to furring channels as described in Item 3.

b. **Steel Framing Members*** — Used to attach furring 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. Furring channels are friction fitted into clips.
REGUPOL AMERICA — Type SonusClip

6E. **Steel Framing Members*** — (Optional, Not Shown) — 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 3.

b. **Steel Framing Members*** — Used to attach resilient channels (Item 6Ea) 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

6F. **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. 2-23/32 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 3.

b. **Steel Framing Members*** — Used to attach furring channels (Item 6Fa) to studs. Clips spaced 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

6G. **Steel Framing Members*** — (Optional, Not Shown) — 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 16 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

7. **Furring Channel** — Optional — Not Shown — For use on one side of the wall - Resilient channels, 25 MSG galv steel, spaced vertically 24 in. OC, flange portion screw attached to one side of studs with 1-1/4 in. long diamond shaped point, double lead Phillips head steel screws. When resilient channels are used, insulation, Items 5C or 5D is required.

8. **Caulking and Sealants** — (Not Shown, Optional) — A bead of acoustical sealant applied around the partition perimeter for sound control.

9. **STC Rating** — The STC Rating of the wall assembly is 56 when it is constructed as described by Items 1 through 6, except:

A. Item 2, above — Nailheads Shall be covered with joint compound.

B. Item 2, above — Joints As described, shall be covered with fiber tape and joint compound.

C. Item 5, above — Batts and Blankets* The cavities formed by the studs shall be friction fit with R-19 unfaced fiberglass insulation batts measuring 6-1/4 in. thick and 15-1/4 in. wide.

D. Item 6, above — Steel Framing Members* Type RSIC-1 clips shall be used to attach gypsum board to studs on either side of the wall assembly.

E. Item 8, above — Caulking and Sealants (Not Shown) A bead of acoustical sealant shall be applied around the partition perimeter for sound control.

F. Steel Corner Fasteners (Item 4), Fiber, Sprayed (Items 5A and 5B) and Steel Framing Members (Item 6A), not evaluated as alternatives for obtaining STC rating.

10. **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

11. **Cementitious Backer Units*** — (Optional Item Not Shown — For Use On Face Of 1 Hr Systems With All Standard Items Required) - 7/16 in., 1/2 in., 5/8 in., 3/4 in. or 1 in. thick, 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 of 3/8 in. for steel framing members, and a minimum of 3/4 in. for wood framing members spaced a max of 8 in. OC. When 4 ft. wide boards are used, horizontal joints need not be backed by framing.
NATIONAL GYPSUM CO — Type DuraBacker, PermaBase, DuraBacker Plus, or PermaBase Plus

12. **Non-Bearing Wall Partition Intersection** — (Optional) —Two nominal 2 by 4 in. studs or nominal 2 by 6 in. studs nailed together with two 3 in. 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.

13. **Mesh Netting** — (Not Shown) — Any thin, woven or non-woven fibrous netting material attached with staples to the outer face of one row of studs to facilitate the installation of the sprayed fiber from the opposite row.

14. **Mineral and Fiber Board*** — (Optional, Not Shown) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to framing with 2 in. long Type W steel screws, spaced 12 in. OC. 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

14A. **Mineral and Fiber Board*** — (Optional, Not Shown) — For use with Items 14B-14E) — For optional use as an additional layer on one side of wall. 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

14B. **Glass Fiber Insulation** — (For use with Item 14A) — 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.

14C. **Batts and Blankets*** — (As an alternate to Item 14B, For use with Item 14A), 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

14D. **Adhesive** — (For use with Item 14A) — 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).

14E. **Gypsum Board*** — (For use with Item 14A) — 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 14A). 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

CGC INC — Types C, IP-X2, IPC-AR

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 — Types 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

14F. **Mineral and Fiber Board** — (Optional, Not Shown) — For optional use as an additional layer on one side of wall - Nom 1/2 in. thick, 4 ft wide, square edge fiber boards applied vertically to studs on one side of the wall in between the wood studs and the UL Classified Gypsum Board (Item 3). Fiber boards installed with 1-1/4 in. long, Type W, bugle head, coarse thread gypsum board screws spaced 12 in. OC max, with the last screws spaced 2 in. and 6 in. from edge of board. Gypsum board (Item 3) 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.
BLUE RIDGE FIBERBOARD INC — SoundStop

14G. **Building Units** – (Optional Item Not Shown – For use over Gypsum Board, Item 3) 1 in., 2 in. or 3 in. thick, 4 ft. wide – Applied vertically or horizontally with vertical joints centered over studs. Fastened to studs and runners with wafer head screws of adequate length to penetrate framing by a minimum of of ¾ in., spaced a max 8 in. o.c.

NATIONAL GYPSUM CO – Type PBCI

*** 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 2023-09-19

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DENVER ▲ KANSAS CITY ▲ ST. LOUIS ▲ ATLANTA

STATE OF MISSOURI
DAVID EUGENE HENDRIKSE
NUMBER A-7305
REGISTERED ARCHITECT
04/17/2024

HOME2 SUITES BY HILTON

LEE'S SUMMIT, MO

SHEET TITLE
UL ASSEMBLIES - U305

PROJECT NUMBER: 22023

SHEET NUMBER:

G-207

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

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

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

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

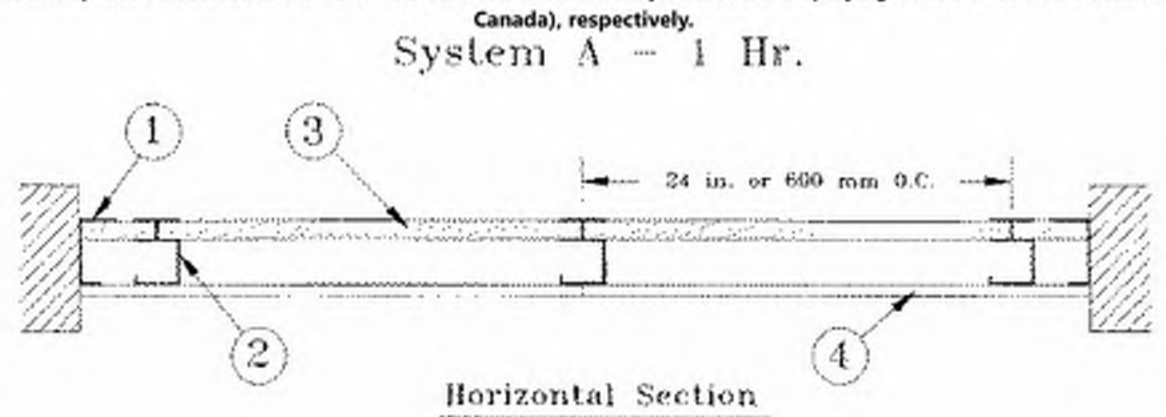
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

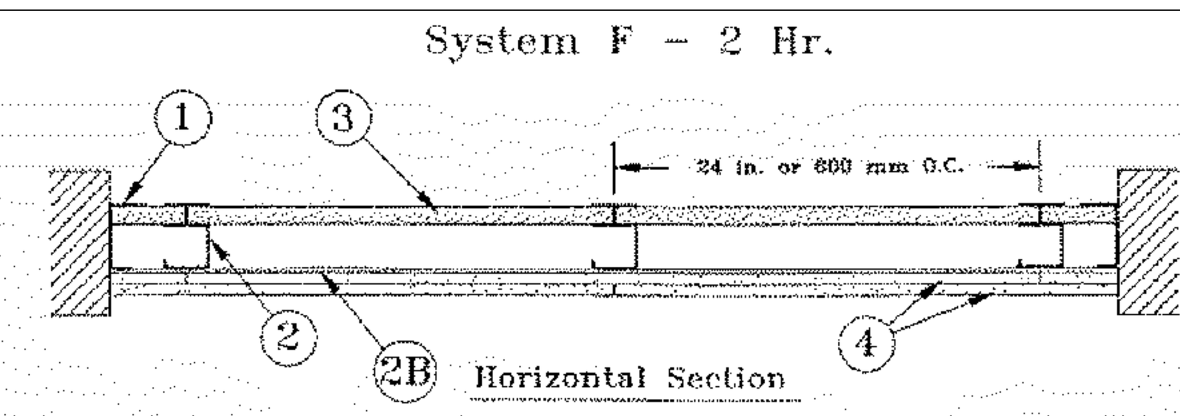
Design No. **U415**

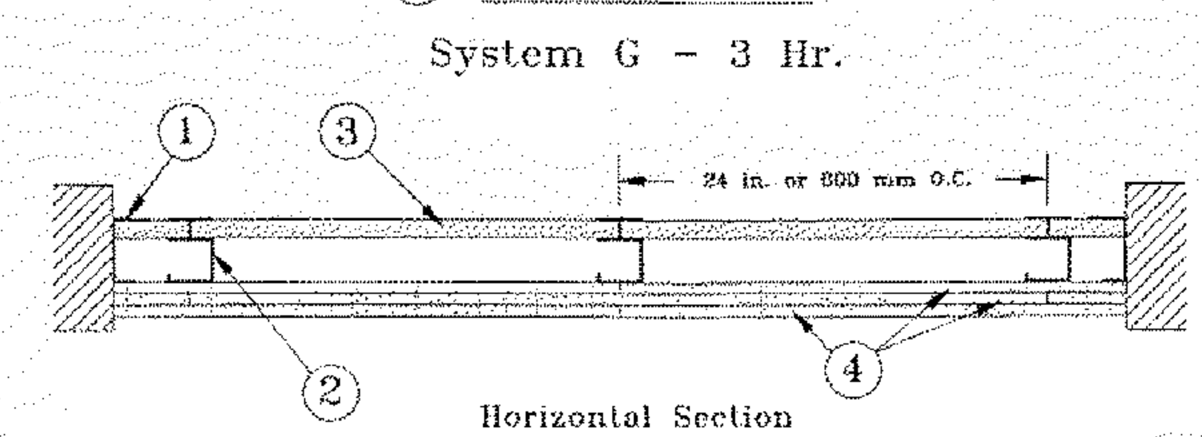
February 14, 2022

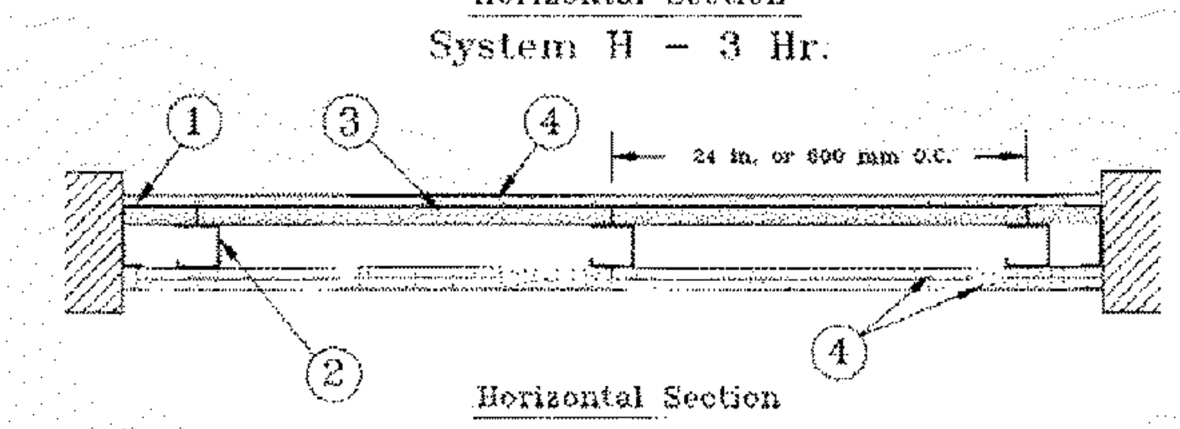
Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr

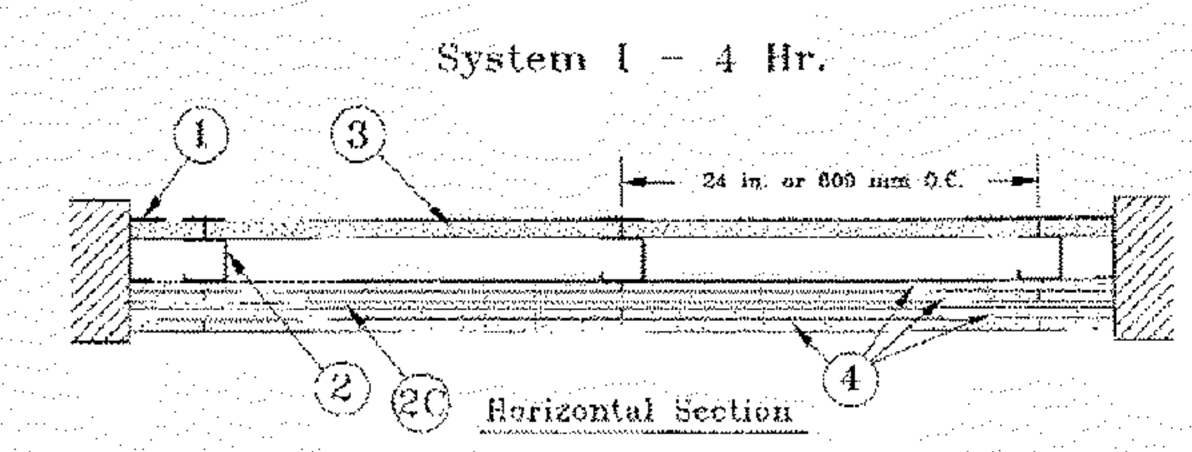
*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**











1. **Floor, Side and Ceiling Runners** — "J" - shaped runner, min 2-1/2 in. deep (min 4 in. deep when System C is used), with unequal legs of 1 in. and 2 in., fabricated from min 24 MSG (min 20 MSG when Item 4A, 4B, 4C, 4D or 7 are used) galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC. "E" - shaped studs (Item 2A) may be used as side runners in place of "J" - shaped runners.

2. **Steel Studs** — "C-H" - shaped studs, min 2-1/2 in. deep (min 4 in. deep when System C is used), fabricated from min 25 MSG (min 20 MSG when Items 2D, 4A, 4B, 4C, 4D or 7 is used) galv steel. Cut to lengths 3/8 to 1/2 in. less than floor-to-ceiling height and spaced 24 in. or 600 mm OC (max 16 in. OC when Items 4A, 4B, 4C, or 4D are used).

2A. **Steel Studs** — (Not Shown) — "E" - shaped studs installed back to back in place of "C-H" - shaped studs (Item 2) "E" - shaped studs secured together with steel screws spaced a maximum 12 in. OC. Fabricated from min 25 MSG (min 20 MSG when Item 2D, 4A, 4B or 7 is used) galv steel, min 2-1/2 in. deep (min 4 in. deep when System C is used), with one leg 1 in. long and two legs 3/4 in. long. Shorter legs 1 in. apart to engage gypsum liner panels. Cut to lengths 3/8 to 1/2 in. less than floor to ceiling heights.

2B. **Furring Channels** — (Optional, Not Shown) — For use with single or double layer systems. Resilient furring channels fabricated from min 25MSG corrosion protected steel, installed horizontally, and spaced vertically a max 24 in. OC. Flange portion of channel attached to each intersecting "C-H" or "E" stud on side of stud opposite the 1 in. liner panels with 1/2 in. long Type S or S-12 pan-head steel screws. When furring channels are used, wallboard to be installed vertically only. . Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

2C. **Furring Channels** — For use with System I - "Hat" - shaped, 25 MSG galv steel furring channels attached directly over the inner layers of wallboard to each stud with 2 in. long Type S pan head steel screws. Screws alternate from top flange to bottom flange at each stud intersection. Furring channels spaced vertically max 24 in. OC.

2D. **Steel Framing Members*** — (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).
a. **Furring Channels** — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 4.

b. **Steel Framing Members*** — Used to attach furring channels (Item 2Da) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75)

2E. **Steel Framing Members*** — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below. . Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).
a. **Furring Channels** — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.Gypsum board attached to furring channels as described in Item 4.

b. **Steel Framing Members*** — Used to attach furring channels (Item 2Ea) to studs. Clips spaced 24 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

2F. **Steel Framing Members*** — (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).
a. **Furring Channels** — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 3.

b. **Steel Framing Members*** — Used to attach furring channels (Item 2Da) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.
PLITEQ INC — Type GENIECLIP

2G. **Steel Framing Members*** — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).
a. **Furring Channels** — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 2Gb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4.

b. **Steel Framing Members*** — Used to attach furring channels (Item 2Ga) to studs. Clips spaced 24 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
REGUPOL AMERICA — Type SonusClip

2H. **Steel Framing Members*** — (Optional, Not Shown) — Resilient channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).
a. **Resilient Channels** — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. 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 4.

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

2I. **Steel Framing Members*** — (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).
a. **Furring Channels** — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 4.

b. **Steel Framing Members*** — Used to attach furring channels (Item 2Ia) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.
CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

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

UNITED STATES GYPSUM CO — Type SLX

USG BORAL DRYWALL SFZ LLC — Type SLX

USG MEXICO S A DE C V — Type SLX

4. **Gypsum Board*** —

System A — 1 Hr

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

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

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

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

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

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

System B — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in two layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 1-5/8 in. long Type S steel screws spaced 12 in. OC when installed vertically and staggered 12 in. from base layer screws or 8 in. OC when installed horizontally and staggered 8 in. from base layer screws. Horizontal joints between inner and outer layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in.

CGC INC — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

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

UNITED STATES GYPSUM CO — 1/2 in. Types C, IP-X2, IPC-AR, or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX.

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, USGX

USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System C — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, secured with 1-1/4 in. long Type S steel screws spaced 8 in. OC along vertical edges and 12 in. OC in the field when installed vertically or 8 in. OC along the vertical edges and in the field when installed horizontally. Horizontal joints need not be backed by steel framing. Screws along side joints offset 4 in. Requires min 4 in. deep framing per Items 1, 2 and 3. Requires min 3 in. thick mineral wool batts per Item 6.

CGC INC — Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — Type ULTRACODE

USG MEXICO S A DE C V — Types IP-X3 or ULTRACODE

System D — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached directly to studs with 1 in. long Type S steel screws spaced 24 in. when installed vertically or 16 in. OC when installed horizontally. Horizontal joints need not be backed by steel framing. Requires face layer of 1/2 or 5/8 in. thick cementitious backer units per Item 7 and min 1-1/2 in. thick mineral wool batts per Item 6.

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

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

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

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

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

System E — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. OC when installed vertically or 8 in. when installed horizontally. Horizontal joints need not be backed by steel framing.

CGC INC — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

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

UNITED STATES GYPSUM CO — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX.

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, USGX

USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System F — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically in two layers. Inner or base layer attached to resilient furring channels (Item 2B) with 1 in. long Type S steel screws spaced 24 in. Outer or face layer attached to resilient furring channels (Item 2B) with 1-5/8 in. long Type S steel screws spaced 12 in. OC and staggered 12 in. from base layer screws. Joints between inner and outer layers staggered 24 in.

CGC INC — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

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

UNITED STATES GYPSUM CO — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX.

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX

USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System G — 3 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in three layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in OC when installed horizontally. Middle layer attached to studs with 1-5/8 in. long Type S steel screws spaced 24 in. when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 2-1/4 in. long Type S steel screws spaced 16 in. when installed vertically or 12 in. OC when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. . Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers.

CGC INC — Types C, IP-X2, IPC-AR, ULIX, WRC

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type C

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

USG BORAL DRYWALL SFZ LLC — Type C

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

System H — 3 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, two layers over the flange of the "C" section of the studs, one layer over the flange of the "H" section of the studs. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Face layer attached to studs with 1-5/8 in. long Type S steel screws spaced 16 in. when installed vertically or 12 in. OC when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers.

CGC INC — Types C, IP-X2, IPC-AR, ULIX, WRC

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type C

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

USG BORAL DRYWALL SFZ LLC — Type C

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

System I — 4 Hr

Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 4 ft wide (or 1200 mm for metric spacing) wallboard with square or tapered edges. Total of four layers to be used. First and second (inner) layers applied vertically or horizontally over the steel studs. Horizontal joints need not be backed by steel framing. When applied vertically, joints centered over studs and staggered min 24 in., otherwise all joints staggered min 12 in. First layer secured to studs with 1-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 24 in. OC. Second layer secured to studs with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. Third layer applied vertically over the furring channels (Item 2C) with a 1-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. Fourth layer applied vertically or horizontally with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. When applied vertically, joints to be staggered min 24 in. from third layer, otherwise all joints staggered min 12 in.

CGC INC — Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — Type ULTRACODE

USG MEXICO S A DE C V — Types IP-X3 or ULTRACODE

4A. **Gypsum Board*** — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1, 2, 2A, 2B and 2D. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9) or Lead Discs or Tabs (see Item 10).
RAY-BAR ENGINEERING CORP — Type RB-LBG

4B. **Gypsum Board*** — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or #6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.
NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Type Nelco

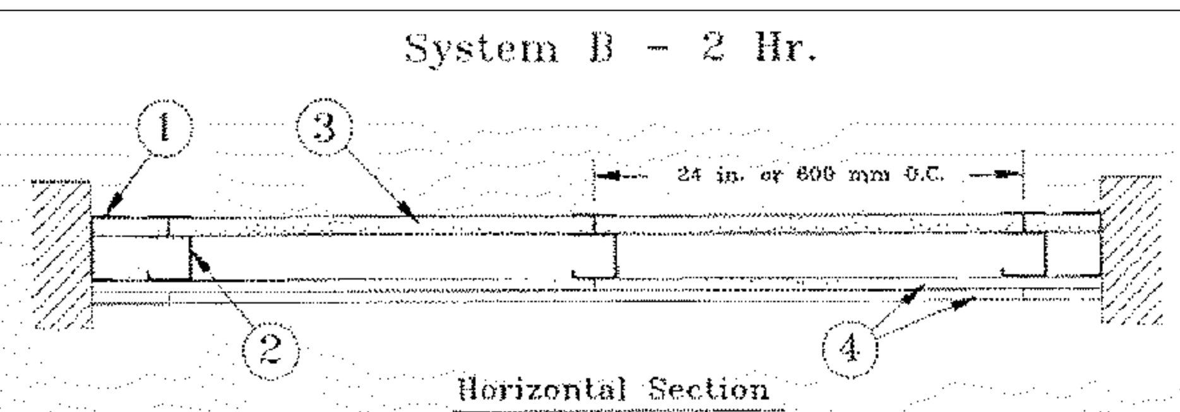
4C. **Gypsum Board*** — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1, 2, 2A, 2B and 2D. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9A) or Lead Discs (see Item 10A). Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip.
MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

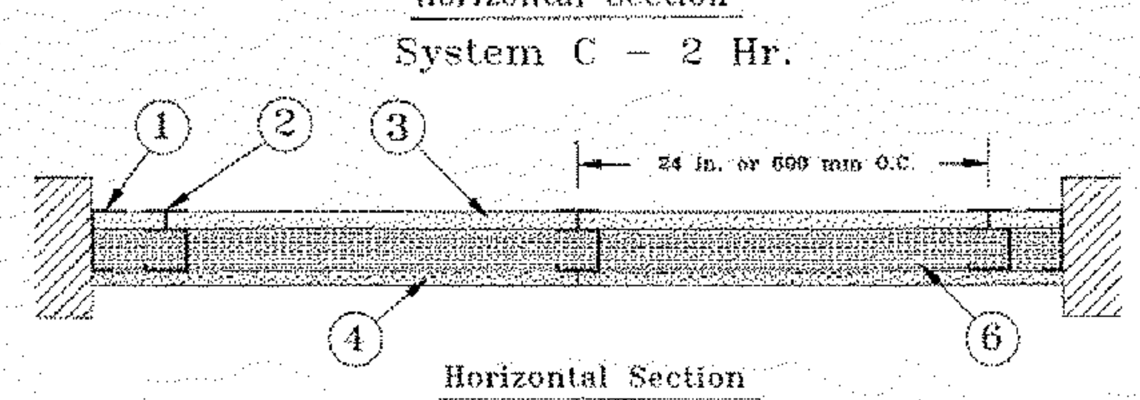
4D. **Gypsum Board*** — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".
RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

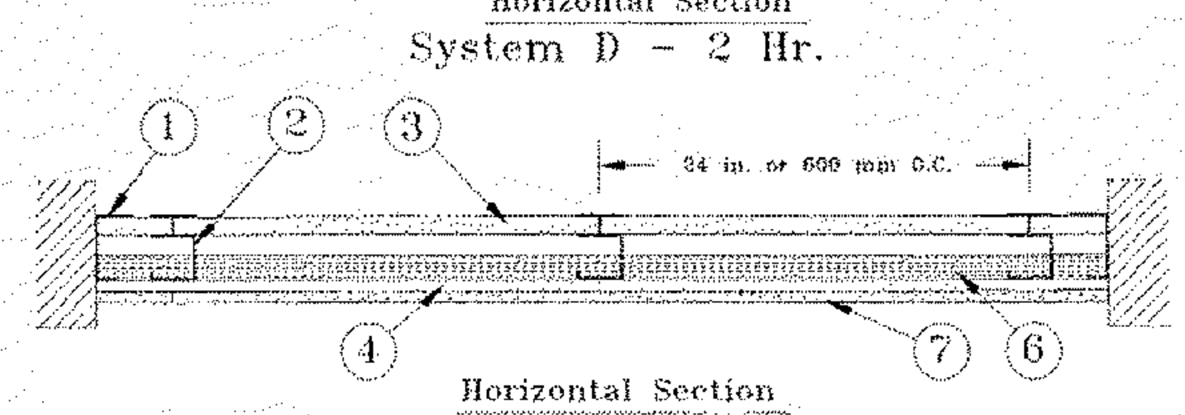
5. **Joint Tape and Compound** — (Not Shown)

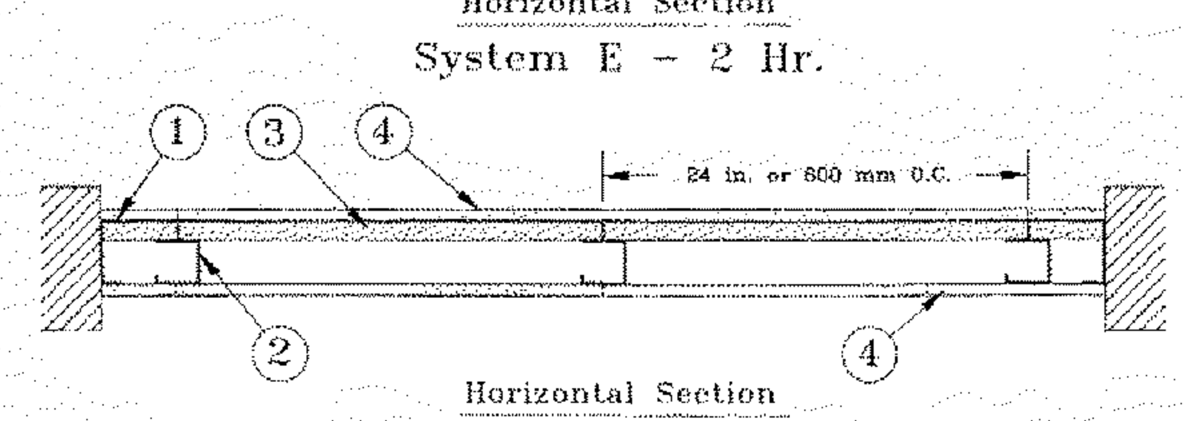
Systems A, B, C, E, F, G, H, I

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









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STATE OF MISSOURI
DAVID EUGENE HENDRIKSE
REGISTERED ARCHITECT
04/17/2024

HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
UL ASSEMBLIES - U415

PROJECT NUMBER: 22023

SHEET NUMBER:

G-208

6. **Batts and Blankets*** —

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

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

Systems C & D

Min 3 in. (System C) and min 1-1/2 in. (System D) thick mineral wool batts, friction fitted between the studs and floor and ceiling runners.

ROCKWOOL — Type AFB, min. density 1.8 pcf / 28.8 kg/m^3

THERMAFIBER INC — Type SAFB, SAFB FF

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

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

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

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

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

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

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

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

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

Last Updated on 2022-02-14

UL Product iQ®

Solutions

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

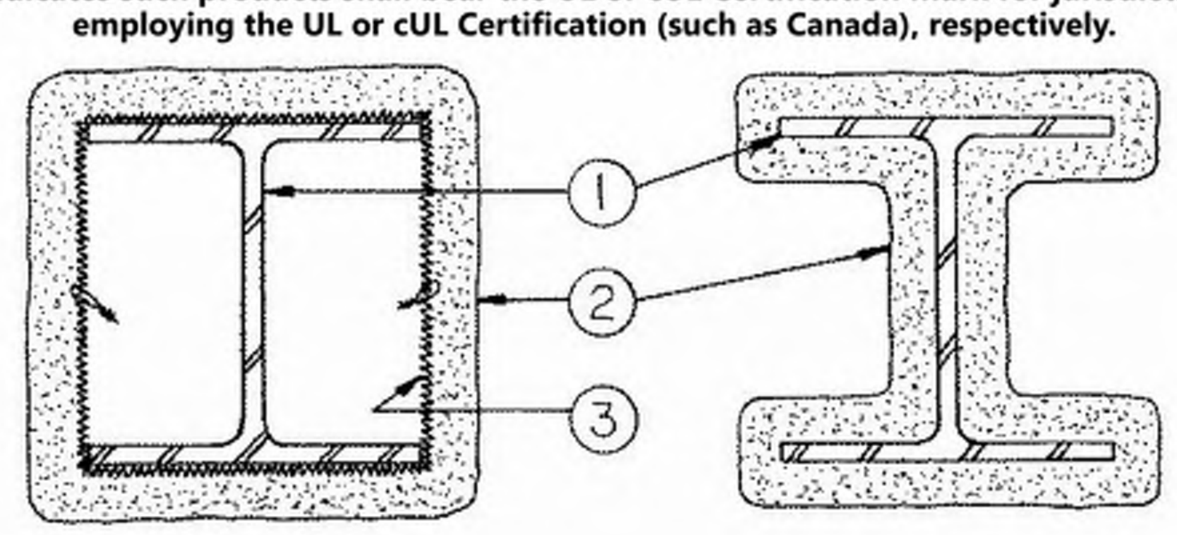
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

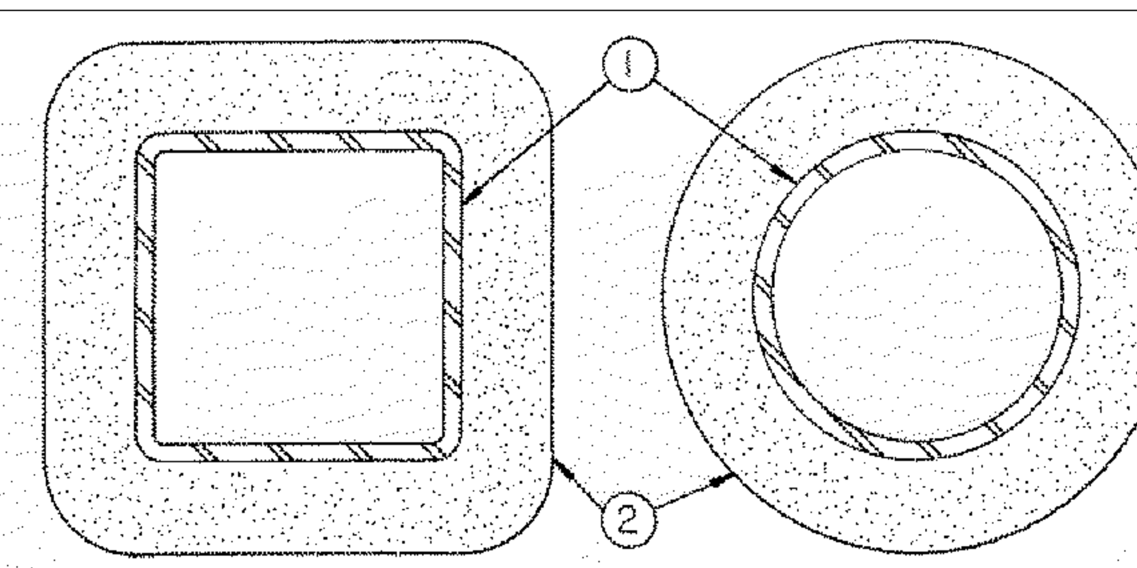
Design No. X790

November 25, 2019

Ratings — 1, 1-1/2, 2, 3 and 4 Hr.

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





1. **Steel Column, Steel Pipe or Steel Tube** — Wide flange steel column (W) or steel circular pipe (SP) or steel square or rectangular tube (ST), min sizes as shown in the tables below.

2. **Spray-Applied Fire Resistive Materials*** — Applied by mixing with water and spraying in one or more coats to the thicknesses shown below, to steel surfaces which are clean and free of dirt, loose scale, and oil. Min average and min individual density of 15 and 14 pcf, for Types 300, 300AC, 300ES, 300HS, 300N, 3000, 3000ES and SB. For Types 400AC and 400ES min average and min individual density of 22 and 19 pcf, respectively. Min avg density of 44 pcf with min ind value of 40 pcf for Types M-II and TG. Min avg density of 47 pcf, with min individual value of 43 pcf for Type M-II/P. For method of density determination, see Design Information Section, Sprayed Material.
The min thickness of Spray-Applied Fire Resistive Materials required for various fire resistance ratings of contour sprayed or boxed wide flange columns are shown in the table below:

Column Size	W/D	Min Thkns In. 1 Hr	1-1/2 Hr	2 Hr	3 Hr	4 Hr
W6x9	0.33	15/16	1-1/4	1-9/16	2-1/8	2-11/16
W6x12	0.43	13/16	1-1/8	1-7/16	2	2-9/16
W6x16	0.57	11/16	1	1-5/16	1-7/8	2-3/8
W8x28	0.68	5/8	15/16	1-1/4	1-13/16	2-5/16
W10x49	0.83	9/16	13/16	1-1/8	1-5/8	2-1/8
W12x106	1.46	3/8	9/16	13/16	1-1/4	1-11/16
W14x233	2.52	1/4	3/8	1/2	7/8	1-3/16
W14x730	6.68	1/4	1/4	1/4	3/8	1/2

As an alternate to the above table, the required thickness of Spray-Applied Fire Resistive Materials to be applied to all surfaces of the steel columns for all rating periods may be determined from the following equations:

$$h = \frac{R}{75 (W/D) + 32}$$

(for column W/D range of 0.33 to 2.51)

$$h = \frac{R}{75 (W/D) + 15}$$

(for column W/D range of 2.51 to 6.68)

Where:

h = Spray-Applied Fire Resistive Materials thickness in the range of 1/4 to 4-1/2 in. (rounded up to the nearest 1/16 in.)

R = Fire resistance rating period in minutes (60-240 mins.)

D = Heated perimeter of the steel column in inches.

W = Weight of the steel column in lbs per foot.

The thicknesses contained in the table below are applicable when the Spray-Applied Fire Resistive Materials applied to the column's flange tips are reduced to one-half that shown in the table below (for contour application):

Column Size In.	Min Thkns In. 1 Hr	1-1/2 Hr	2 Hr	3 Hr	4 Hr
W6x9	1	1-3/8	1-3/4	2-7/16	3-1/8
W6x12	7/8	1-1/4	1-5/8	2-5/16	3-1/16
W6x16	3/4	1-1/8	1-7/16	2-1/16	2-11/16
W8x28	11/16	1	1-5/16	1-15/16	2-1/2
W10x49	5/8	15/16	1-3/16	1-3/4	2-3/8
W12x106	3/8	5/8	7/8	1-3/8	1-13/16
W14x233	5/16	3/8	9/16	15/16	1-5/16
W14x730	5/16	5/16	5/16	7/16	5/8

The min thickness of Spray-Applied Fire Resistive Materials required for various fire resistance ratings of contour sprayed steel pipes or tubes are shown on the table below:

Min Column Size In.	A/P	1 Hr	1-1/2 Hr	Min Thkns In. 2 Hr	3 Hr	4 Hr
SP 4x0.237	0.22	11/16	1	1-3/8	2-1/16	2-3/4
ST 4x4x0.1875	0.18	3/4	1-1/16	1-7/16	2-1/16	2-11/16
ST 4x4x0.3125	0.29	1/2	13/16	1-1/8	1-3/4	2-5/16
ST 4x4x0.375	0.34	7/16	3/4	1	1-9/16	2-1/8
ST 4x4x0.5	0.44	3/8	9/16	7/8	1-3/8	1-7/8
ST20x20x0.75 in	0.72	5/16	1/2	11/16	1-1/16	1-7/16
ST20x20x1 in.	0.95	1/4	3/8	1/2	13/16	1-1/8
ST20x20x1.5 in.	1.39	1/4	1/4	3/8	5/8	13/16
ST20x20x1.75 in.	1.60	1/4	1/4	3/8	1/2	3/4
ST32x32x1.25 in.	1.20	1/4	5/16	7/16	11/16	15/16
ST 36x24x0.5	0.49	5/16	7/16	11/16	1-1/8	1-9/16

As an alternate to the table above, the required thickness of Spray-Applied Fire Resistive Materials to be applied to all surfaces of the steel pipes or tubes for all rating periods may be determined from the following equation:

$$h = \frac{R}{188 (A/P) + 45}$$

Where:

h = Spray-Applied Fire Resistive Materials thickness in the range of 5/16 to 4-1/4 in. (rounded up to the nearest 1/16 in.)

R = Fire resistance rating in minutes (60-240 mins.)

A = Cross-sectional area of pipe or tube.

P = Heated perimeter of steel pipe or tube.

A/P = 0.18 to 0.49.

The A/P ratio of a circular pipe is determined by:

$$A/P = \frac{t (d — t)}{d}$$

Where:

d = the outer diameter of the pipe (in.)

t = the wall thickness of the pipe (in.)

The A/P ratio of a rectangular tube is determined by:

$$A/P = \frac{t (a + b—2t)}{a + b}$$

Where:

a = the outer width of the tube (in.)

b = the outer length of the tube (in.)

t = the wall thickness of the tube (in.)

BERLIN CO LTD — Types 300, 300ES, 300N, SB, M-II, TG and M-II/P.

GREENTECH ASIA PACIFIC SDN BDH — Types 300, 300ES, 300HS, M-II, or M-II/P

GREENTECH THERMAL INSULATION PRODUCTS MFG CO L L C — Types 300, 300AC, 300HS, 400AC, 3000, M-II, TG, and M-II/P.

ISOLATEK INTERNATIONAL — Type 300, 300AC, 300ES, 300HS, 300N, 400AC, 400ES, SB, 3000, 3000ES, M-II, TG and M-II/P.

NEWKEM PRODUCTS CORP — Types 300, 300ES, 300N, SB, M-II, TG and M-II/P

2A. **(As an alternate to Item 2) Spray-Applied Fire Resistive Materials*** — Applied by mixing with water and spraying in one or more coats to the thicknesses shown below, to steel surfaces which are clean and free of dirt, loose scale, and oil. Min average and min individual density of 17.5 and 16 pcf, respectively, for Type 300TW. Min average and min individual density of 22 and 19 pcf, respectively, for Type 400. For method of density determination, see Design Information Section, Sprayed Material.
The min thickness of Spray-Applied Fire Resistive Materials required for various fire resistance ratings is shown in Item 2.

BERLIN CO LTD — Type 400.

GREENTECH ASIA PACIFIC SDN BDH — Type 400

GREENTECH THERMAL INSULATION PRODUCTS MFG CO L L C — Type 400.

ISOLATEK INTERNATIONAL — Type 300TW or Type 400.

NEWKEM PRODUCTS CORP — Type 400.

2B. **(As an alternate to Item 2 and 2A) — Spray-Applied Fire Resistive Materials*** — Prepared by mixing with water according to instructions on each bag of mixture and spray- or trowel-applied to steel surfaces which are free of dirt, oil or scale. Min average density of 17.5 pcf with min individual value of 17.0 pcf. For method of density determination, see Design Information Section, Sprayed Material.
The min thickness of Spray-Applied Fire Resistive Materials required for various fire resistance ratings is shown in Item 2.

ISOLATEK INTERNATIONAL — Type 280.

3. **Metal Lath** — (Optional for contour application) — 3.4 lb/sq yd galv or painted expanded steel lath. Lath shall be lapped 1 in. and tied together with No. 18 SWG galv steel wire spaced vertically 6 in. 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 2019-11-25

PRINTS ISSUED
04/17/2024 - CITY SUBMISSION

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STATE OF MISSOURI
DAVID EUGENE HENDRIKSE
NUMBER A-7305
REGISTERED ARCHITECT
04/17/2024

HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
UL ASSEMBLIES - U415 / X790

PROJECT NUMBER: 22023

SHEET NUMBER:

G-209

UL Product iQ®

UL Solutions

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

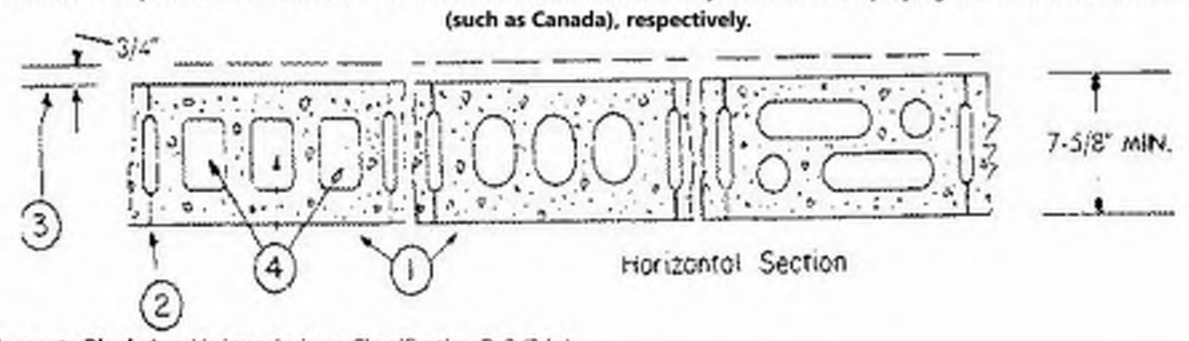
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. **U905**

April 14, 2023

Bearing Wall Rating — 2 HR.
Nonbearing Wall Rating — 2 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 D-2 (2 hr).
See **Concrete Blocks** category for list 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** — Add 1/2 hr to classification if used. Where combustible members are framed in wall, plaster or stucco must be applied on the face opposite framing to achieve a max. Classification of 1-1/2 hr. Attached to concrete blocks (Item 1).

4. **Loose Masonry Fill** — If all core spaces are filled with loose dry expanded slag, expanded clay or shale (Rotary Kiln Process), water repellant vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation add 2 hr to classification.

5. **Foamed Plastic*** — (Optional-Not Shown) — 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).
ATLAS ROOFING CORP — EnergyShield Pro Wall Insulation, EnergyShield Pro 2 Wall Insulation, EnergyShield CGF Pro, EnergyShield Ply Pro, EnergyShield® CGF, EnergyShield® PanelCast, EnergyShield® and "EnergyShield® XR

DUPONT DE NEMOURS, INC. — Types 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 — Types "Xci-Class A", "Xci Foil (Class A)", "Xci 286"

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"

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

5A. **Building Units*** — As an alternate to Items 5, min. 1-in thick polyisocyanurate composite foamed plastic insulation boards, nom. 48 by 48 or 96 in.

ATLAS ROOFING CORP — EnergyShield® Ply

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — "Xci NB", "Xci Ply"

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

*** 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 2023-04-14

PRINTS ISSUED
04/17/2024 - CITY SUBMISSION

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STATE OF MISSOURI
DAVID EUGENE HENDRICKSE
REGISTERED ARCHITECT
04/17/2024

HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
UL ASSEMBLIES - U905

PROJECT NUMBER: 22023

SHEET NUMBER:

G-210

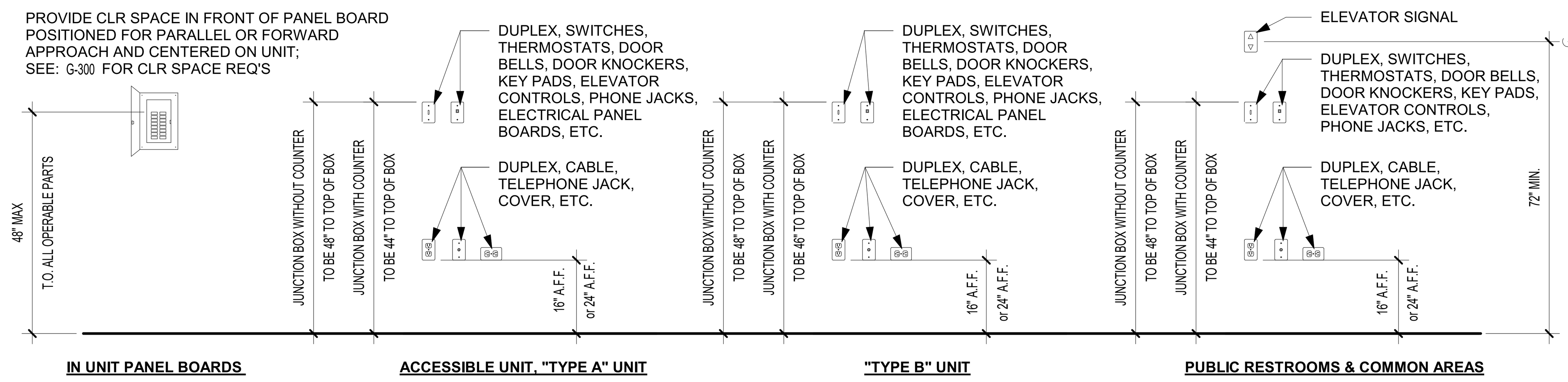
REFERENCE G-003 FOR GENERAL NOTES

DIAGRAMS BELOW ARE APPLICABLE TO PUBLIC SPACES AND ALL UNIT TYPES UNLESS NOTED OTHERWISE

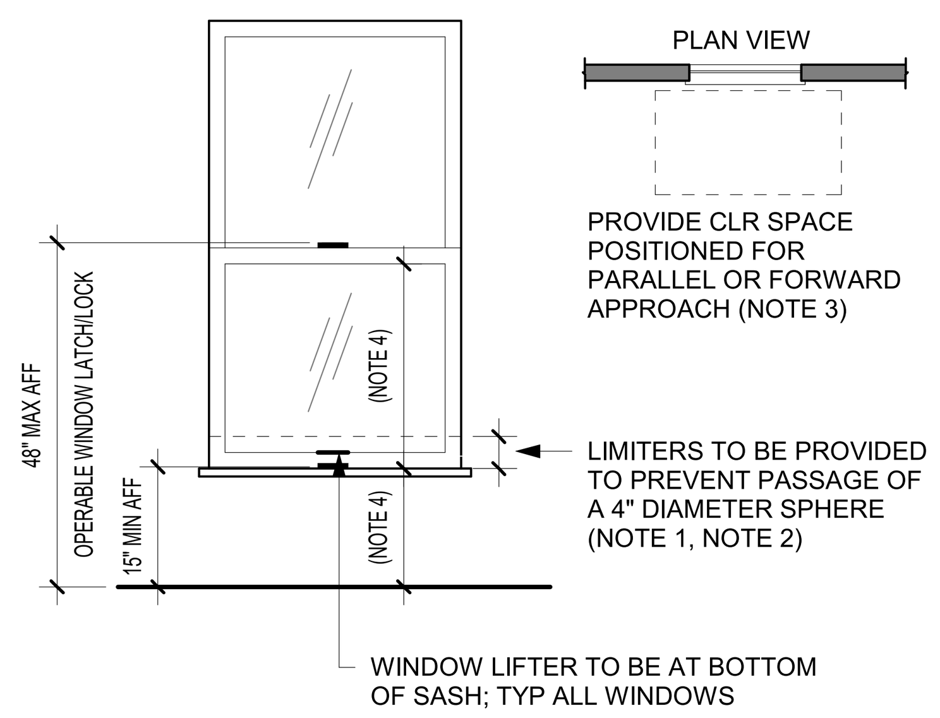
GENERAL NOTES

1. THE PROJECT SHALL MEET ALL APPLICABLE CODES SPECIFIED BY LOCAL AND FEDERAL REQUIREMENTS, INCLUDING BUT NOT LIMITED TO THE INFORMATION PRESENTED ON THE FOLLOWING G-300 SHEETS.
   A. LOCAL AND FEDERAL REQUIREMENTS SHALL SUPERCEDE ANY CONFLICTING INFORMATION.
2. ALL DIMENSIONS PROVIDED ON THE FOLLOWING G-300 SHEETS REPRESENT CLEAR DIMENSIONS AND ARE TAKEN FROM FACE OF FINISH/COMPONENT.

OTHER HEIGHTS



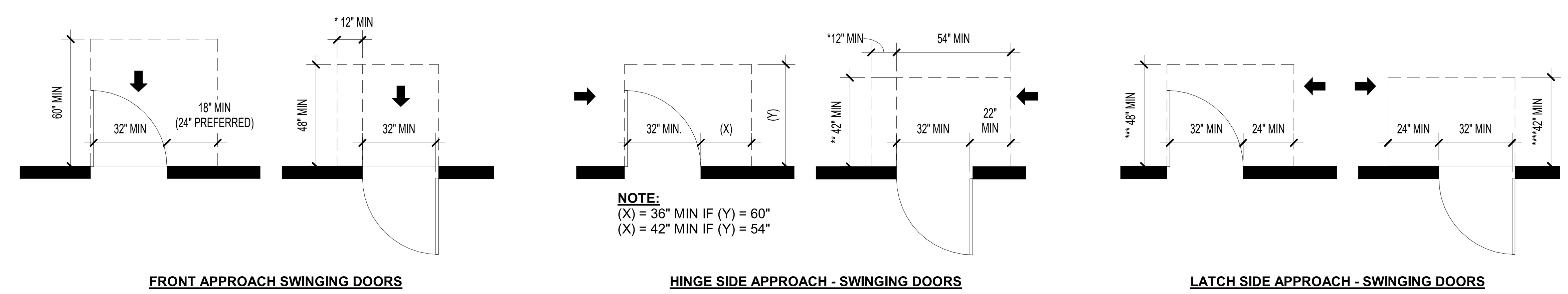
D4 MOUNTING HEIGHTS
NOT TO SCALE



NOTES:
1. *PROVIDE LIMITERS AT R-1 OCCUPANCIES WHERE BOTTOM OF CLEAR OPENING OF OPERABLE PORTION OF WINDOW IS LOCATED LESS THAN 36" AFF AND GREATER THAN 72" FROM FINISHED GRADE OR OTHER SURFACE BELOW.*
2. *CLEAR SPACE REQUIRED AT OPERATION OF WINDOW & PTAC.*

A4 WINDOW LATCH/LOCK REQ'S
NOT TO SCALE

DOORS

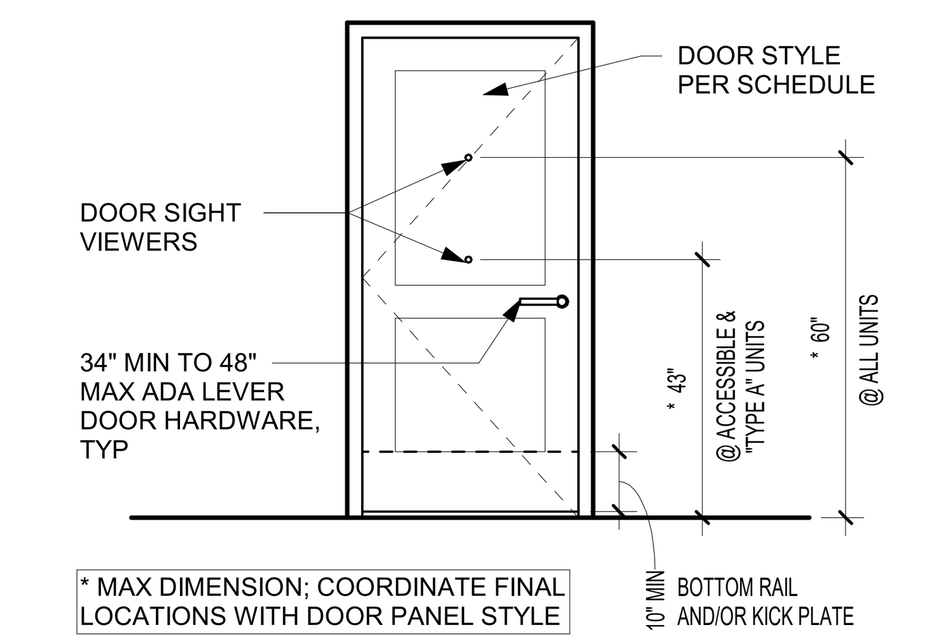


NOTE:
DOOR CLEARANCES ARE REQUIRED FOR ALL DOORS AT THE FOLLOWING LOCATIONS:
PUBLIC AREAS, ACCESSIBLE UNITS, "TYPE A" UNITS

"TYPE B" UNIT DOOR PUSH/PULL CLEARANCES ARE REQUIRED FOR UNIT ENTRY DOORS ONLY; SEE UNIT PLANS FOR MORE INFORMATION

GENERAL LEGEND:
- * = IF BOTH CLOSER & LATCH ARE REQUIRED
- ** = 48" MIN IF BOTH CLOSER & LATCH PROVIDED
- *** = 54" MIN IF CLOSER IS PROVIDED
- **** = 48" MIN IF CLOSER PROVIDED

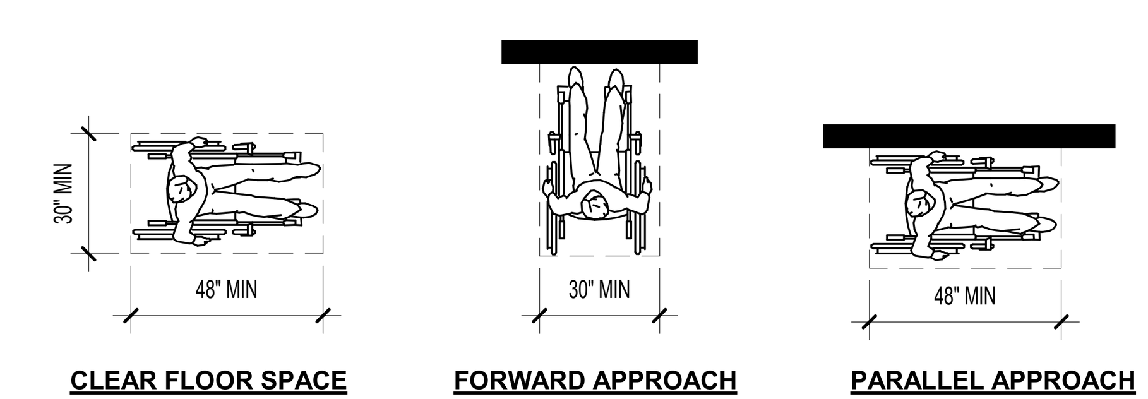
D3 DOOR CLEARANCES
NOT TO SCALE



* MAX DIMENSION; COORDINATE FINAL LOCATIONS WITH DOOR PANEL STYLE

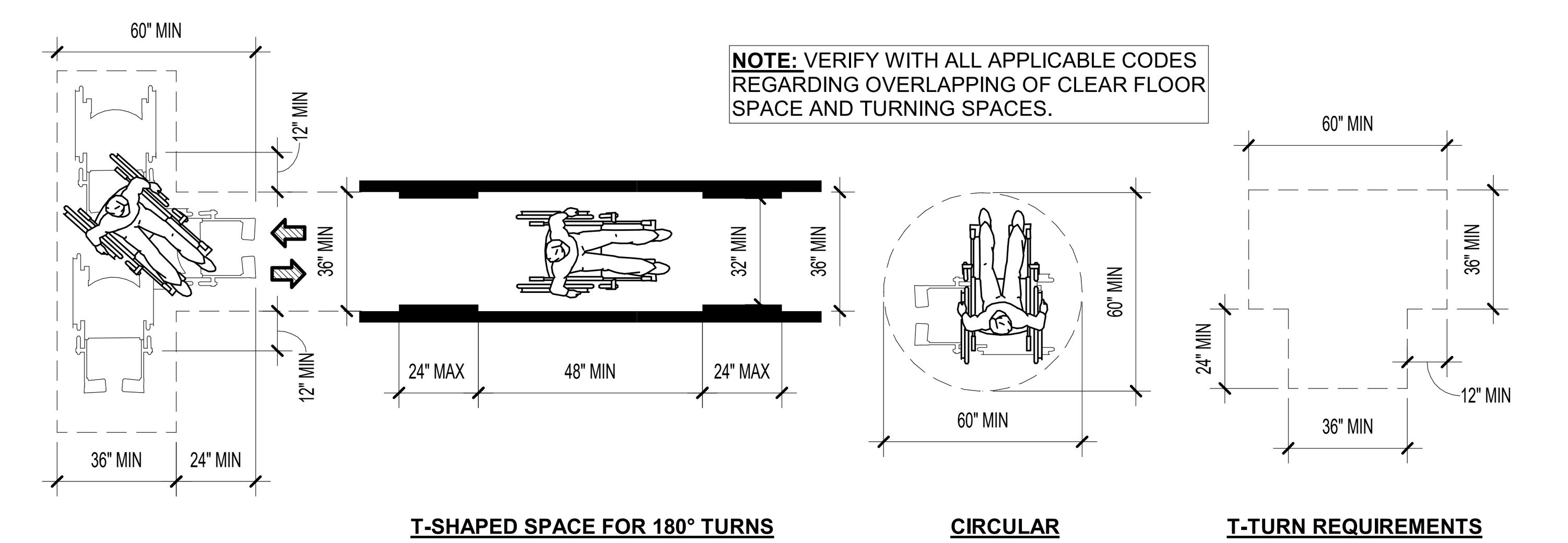
A3 DOOR HARDWARE HEIGHTS
NOT TO SCALE

CLEAR FLOOR SPACES



NOTE: ALL CLEAR SPACES ARE 30"x48" UNLESS SPECIFIED OTHERWISE.

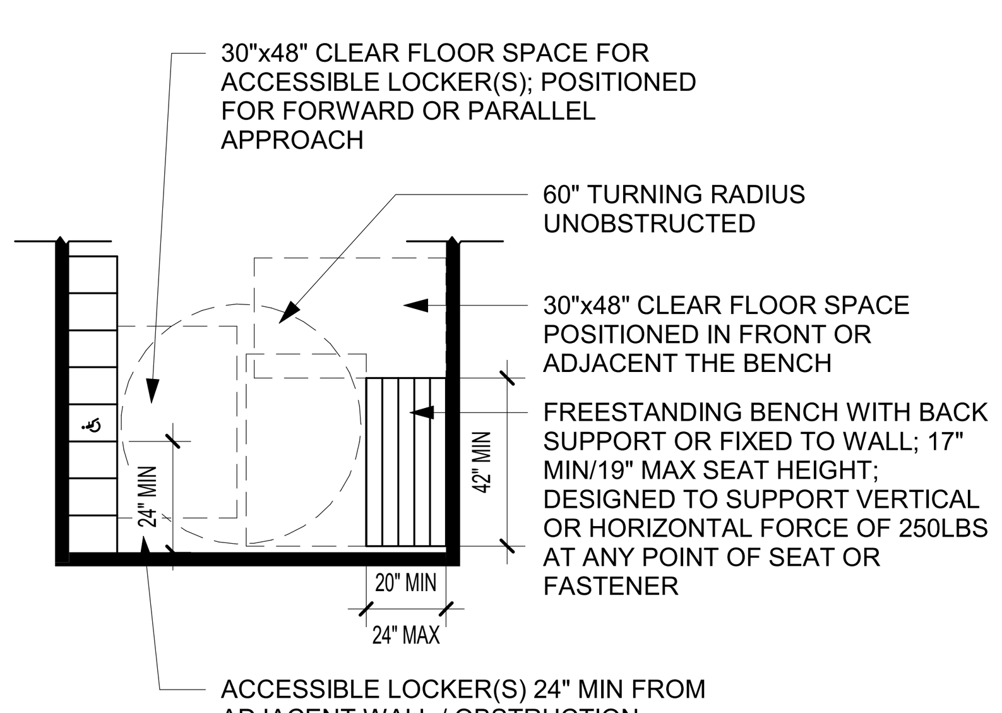
C2 CLEAR FLOOR SPACE
NOT TO SCALE



NOTE: VERIFY WITH ALL APPLICABLE CODES REGARDING OVERLAPPING OF CLEAR FLOOR SPACE AND TURNING SPACES.

A2 WHEELCHAIR TURNING SPACE
NOT TO SCALE

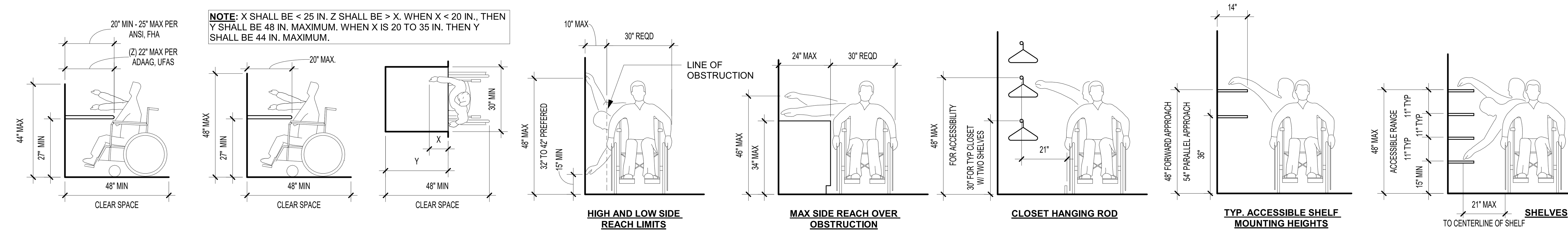
LOCKER ROOMS



E1 LOCKER ROOM BENCH
NOT TO SCALE

REACH RANGES

NOTE: X SHALL BE < 25 IN. Z SHALL BE > X. WHEN X < 20 IN., THEN Y SHALL BE 48 IN. MAXIMUM. WHEN X IS 20 TO 35 IN. THEN Y SHALL BE 44 IN. MAXIMUM.



D1 REACH REQUIREMENTS
NOT TO SCALE

PRINTS ISSUED
04/17/2024 - CITY SUBMISSION

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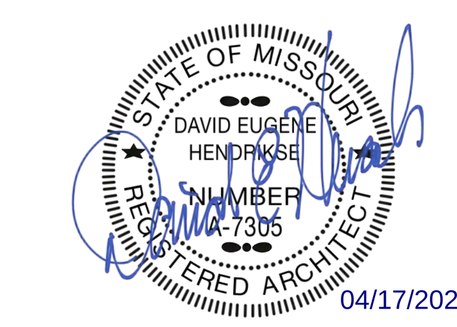


HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
ACCESSIBILITY STANDARDS

PROJECT NUMBER: 22023

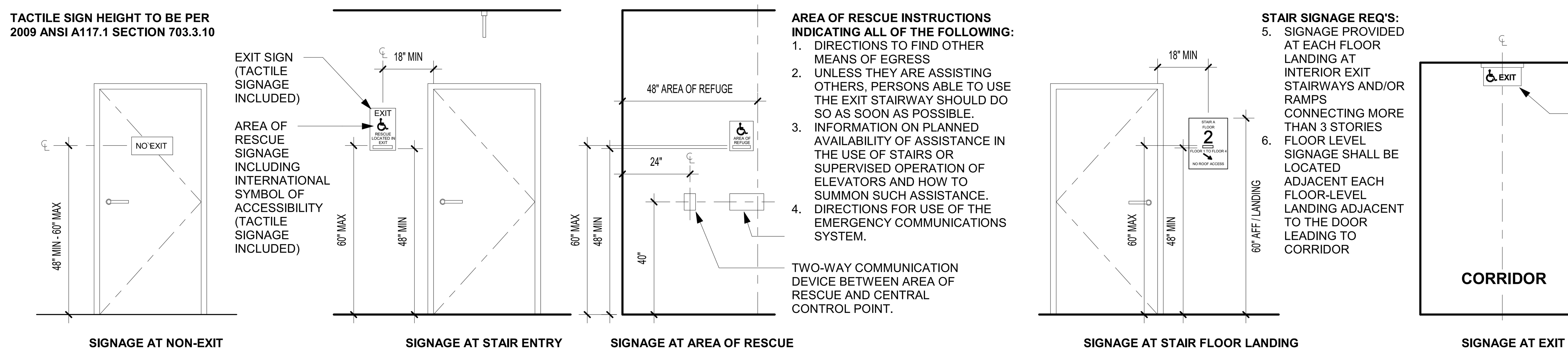
SHEET NUMBER:

G-300

REFERENCE G-003 FOR GENERAL NOTES

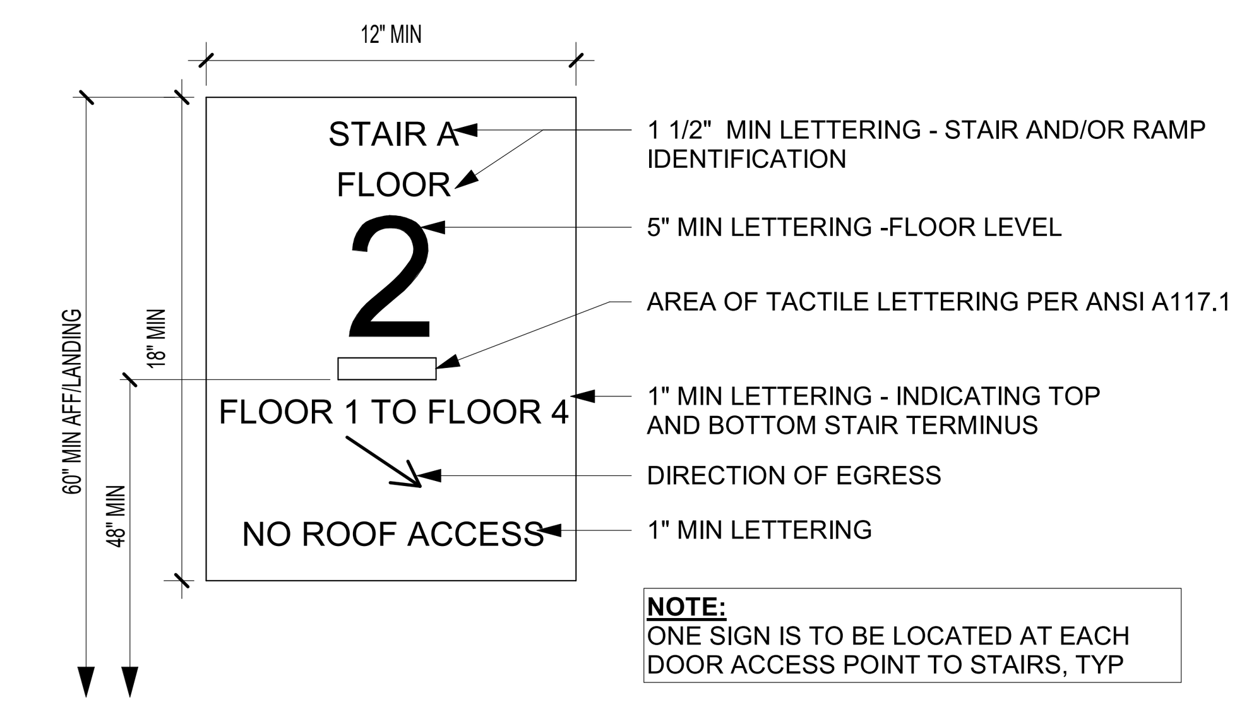
DIAGRAMS BELOW ARE APPLICABLE TO PUBLIC SPACES AND ALL UNIT TYPES UNLESS NOTED OTHERWISE

SIGNAGE



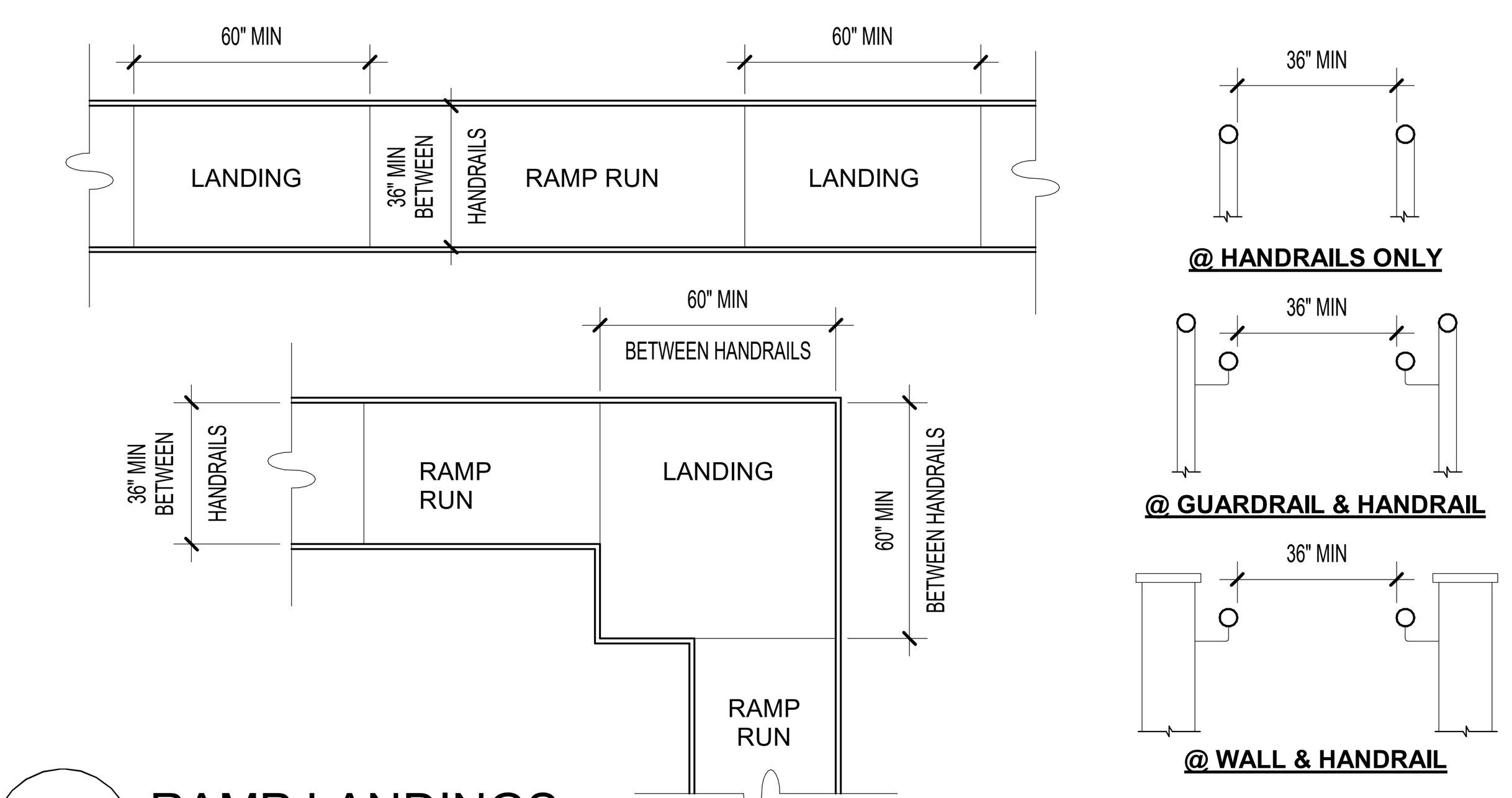
NOTE: SIGNS CONTAINING RAISED CHARACTERS AND BRAILLE SHALL BE LOCATED ON LATCH SIDE OF DOOR WITH A 18x18 CLEAR FLOOR SPACE OUTSIDE THE SWING OF THE DOOR

D4 CODE COMPLIANT SIGNAGE
NOT TO SCALE

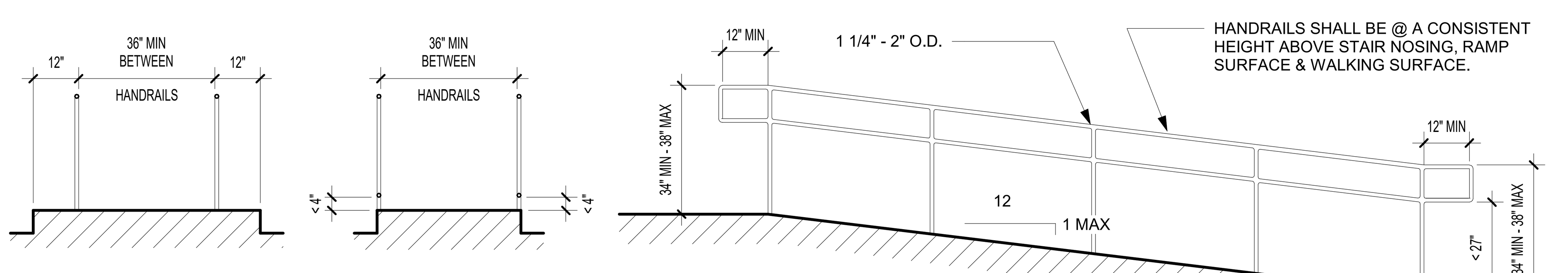


A4 EGRESS STAIR SIGNAGE
NOT TO SCALE

RAMPS



D3 RAMP LANDINGS
NOT TO SCALE



NOTES:

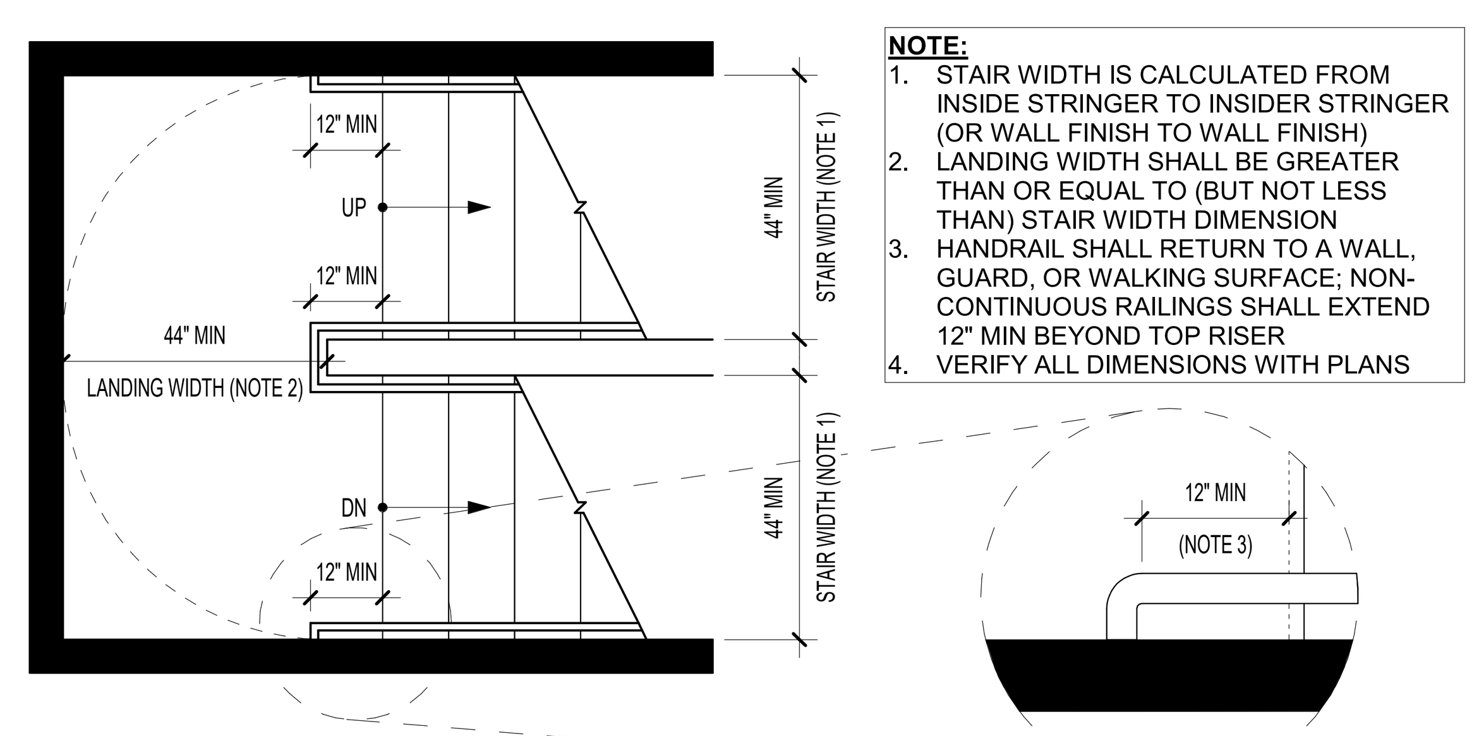
1. WIDTH BETWEEN HANDRAILS IS 36" MIN; HANDRAILS AND HANDRAIL SUPPORTS SHALL NOT PROJECT INTO THE REQUIRED CLEAR WIDTH OF THE RAMP RUN.
2. CROSS SLOPE OF RAMP SURFACES SHALL BE NO GREATER THAN 1:48 AND SHALL BE STABLE, FIRM, AND SLIP-RESISTANT. IF THE SLOPE IS EQ. OR GREATER THAN 1:20 YOU ARE REQ. TO HAVE HANDRAILS ON BOTH SIDES OF RAMP.
3. RAMP RUNS WITH A RISE GREATER THAN 6 INCHES SHALL HAVE HANDRAILS.

C3 RAMP & HANDRAIL SPECS
NOT TO SCALE

ADDITIONAL REQUIREMENTS

CARPET	MAX PILE HEIGHT SHALL BE 1/2 IN. EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR SURFACES AND HAVE TRIM ALONG THE ENTIRE LENGTH OF THE EXPOSED EDGE. IF CARPET TILE IS USED ON AN ACCESSIBLE GROUND OF FLOOR SURFACE, IT SHALL HAVE A MAXIMUM COMBINED THICKNESS OF PILE, CUSHION, AND BACKING HEIGHT OF 1/2 IN.		
RAMPS	SLOPE	MAX RISE	MAX HORIZONTAL PROJECTION
	1:12 TO <1:16 1:16 TO <1:20	30 IN. 30 IN.	30 FT. 40 FT.
	1:12 TO 1:20 - REQUIRES A HANDRAIL		
INTERIOR SIGNAGE	**CHARACTER PROPORTION AND COLOR CONTRAST** LETTERS AND NUMBERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND AND BE NON-GLARE. CHARACTERS SHALL BE UPPER CASE. CHARACTER HEIGHT, MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER, SHALL BE 5/8 IN. MINIMUM, AND 2 IN. MAXIMUM, BASED ON THE UPPERCASE LETTER "I".		
	RAISED OR INDENTED CHARACTERS OR SYMBOLS LETTERS AND NUMBERS ON SIGNS SHALL BE RAISED OR INCISED 1/32 IN. MIN AND SHALL BE SANS SERIF CHARACTERS. RAISED CHARACTERS OR SYMBOLS SHALL BE AT LEAST 5/8 IN HIGH, BUT NO HIGHER THAN 2 IN. INDENTED CHARACTERS OR SYMBOLS SHALL HAVE A STROKE WIDTH OF AT LEAST 1/4 IN. SYMBOLS OR PICTOGRAPHS ON SIGNS SHALL BE RAISED OR INDENTED 1/32 IN MIN		
	MOUNTING LOCATION AND HEIGHT INTERIOR SIGNAGE SHALL BE LOCATED ALONGSIDE THE DOOR ON THE LATCH SIDE AND SHALL BE MOUNTED AT A HEIGHT OF BETWEEN 54 IN. AND 66 IN. ABOVE THE FINISHED FLOOR PER UFAS AND BETWEEN 48 IN. AND 60 IN. PER ANSI. REFER TO **ICC/ANSI A117.1-2009, 703.2.8** FOR MORE REQUIREMENTS ON MOUNTING LOCATION.		

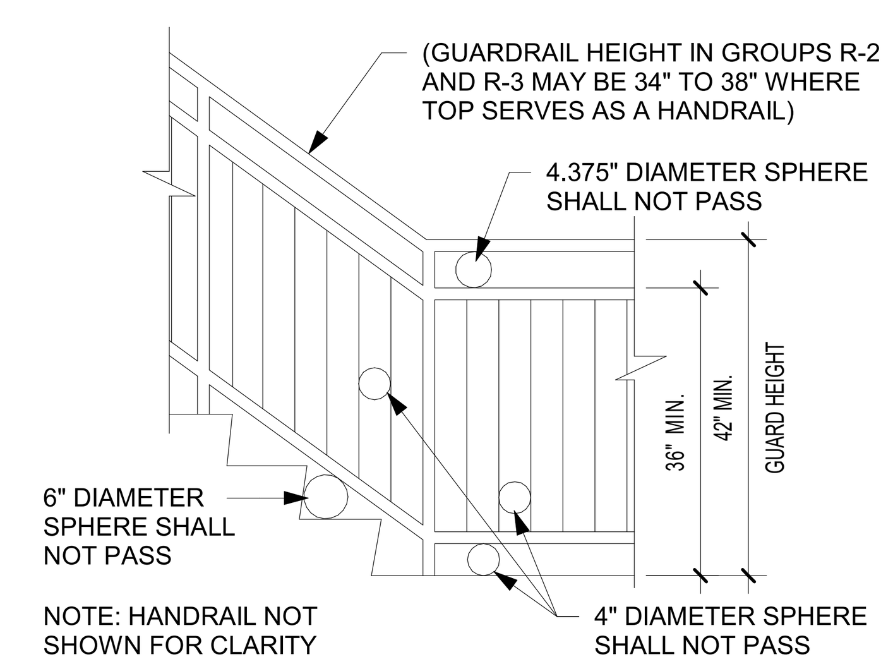
STAIRS AND RAILINGS



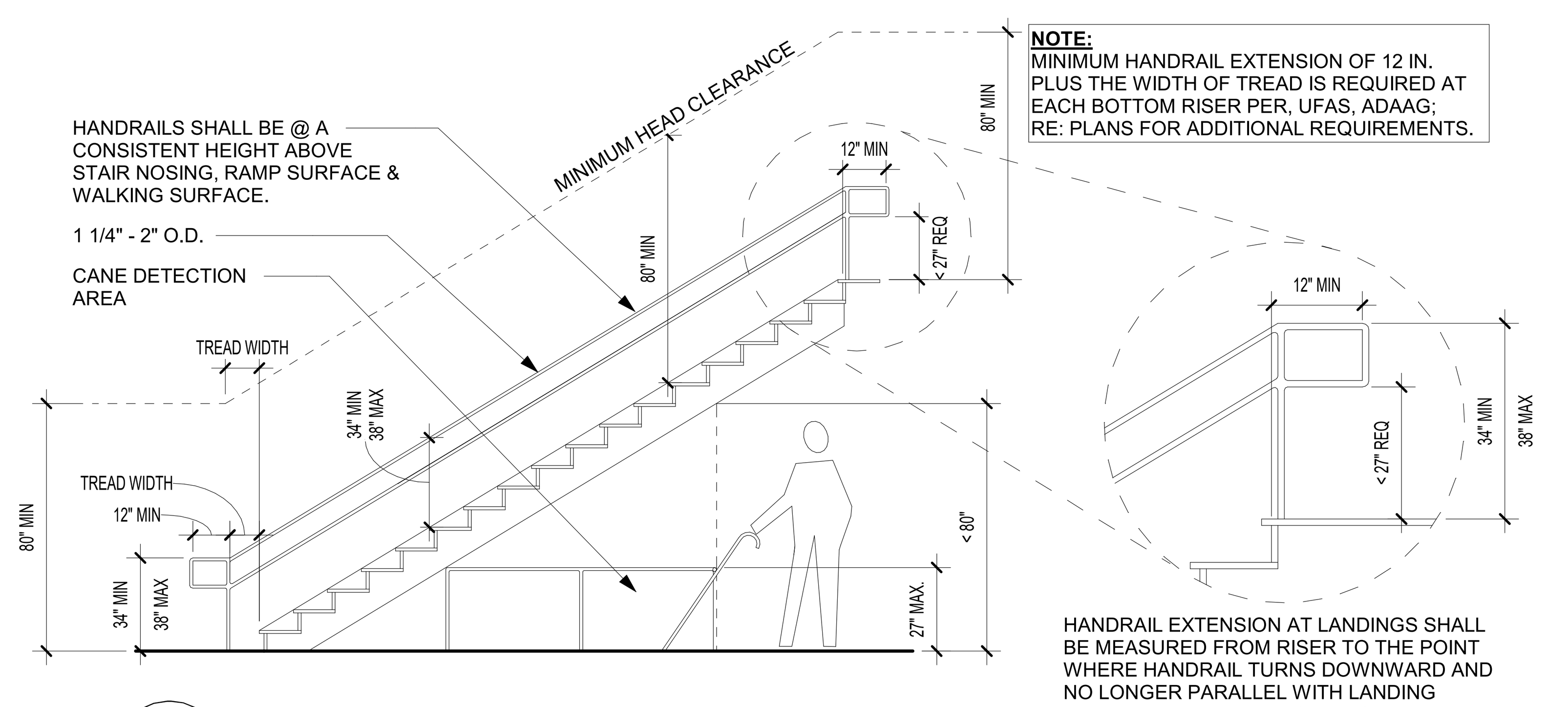
NOTE:

1. STAIR WIDTH IS CALCULATED FROM INSIDE STRINGER TO INSIDER STRINGER (OR WALL FINISH TO WALL FINISH)
2. LANDING WIDTH SHALL BE GREATER THAN OR EQUAL TO (BUT NOT LESS THAN) STAIR WIDTH DIMENSION
3. HANDRAIL SHALL RETURN TO A WALL, GUARD, OR WALKING SURFACE; NON-CONTINUOUS RAILINGS SHALL EXTEND 12" MIN BEYOND TOP RISER
4. VERIFY ALL DIMENSIONS WITH PLANS

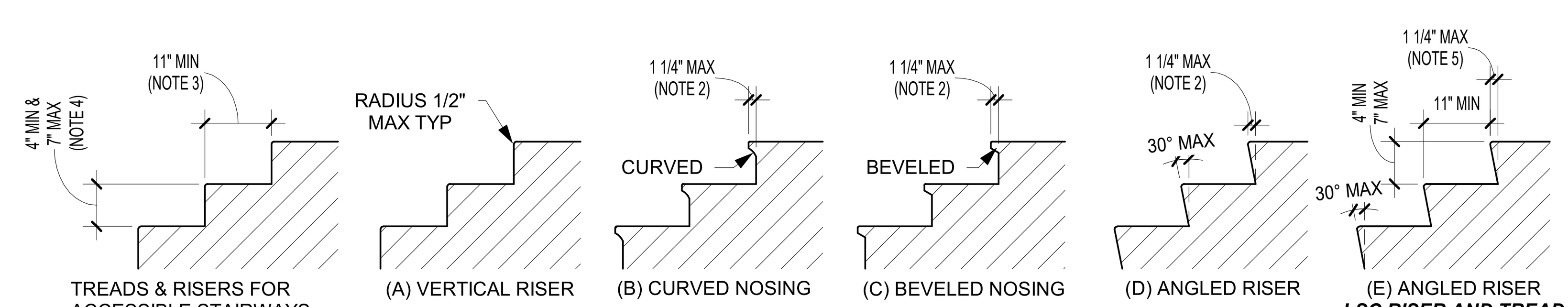
D2 EGRESS STAIR REQ'S
NOT TO SCALE

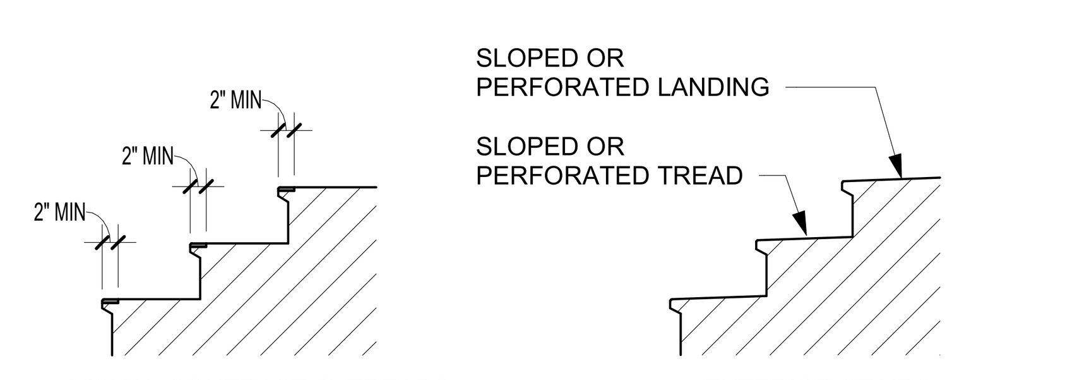


C2 STAIR OPENING GUARD LIMITATIONS
NOT TO SCALE



B2 STAIR PROTECTION & HANDRAIL DETAIL
NOT TO SCALE



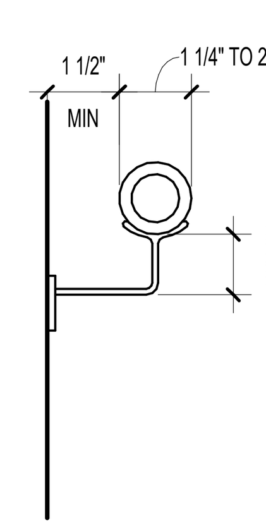


THE LEADING 2" OF TREADS SHALL HAVE VISUAL CONTRAST OF DARK-ON-LIGHT OR LIGHT-ON-DARK FROM THE REMAINDER OF THE TREAD

MATERIAL CHANGES SHALL PROVIDE A FLUSH SURFACE

TREADS AND LANDINGS SUBJECT TO WET CONDITIONS SHALL BE DESIGNED TO PREVENT ACCUMULATION OF WATER

D1 STAIR RISER AND TREAD REQ
NOT TO SCALE



B1 IBC HANDRAIL DETAIL
NOT TO SCALE

PRINTS ISSUED
04/17/2024 - CITY SUBMISSION

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STATE OF MISSOURI — DAVID EUGENE HENDRIKSE — NUMBER A-7305 — REGISTERED ARCHITECT — 04/17/2024

HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
ACCESSIBILITY STANDARDS

PROJECT NUMBER: 22023

SHEET NUMBER:

G-301

REFERENCE G-003 FOR GENERAL NOTES

DIAGRAMS BELOW ARE APPLICABLE TO PUBLIC SPACES AND ALL UNIT TYPES UNLESS NOTED OTHERWISE

TOILET, BATH, LAUNDRY ACCESSORY SCHEDULE

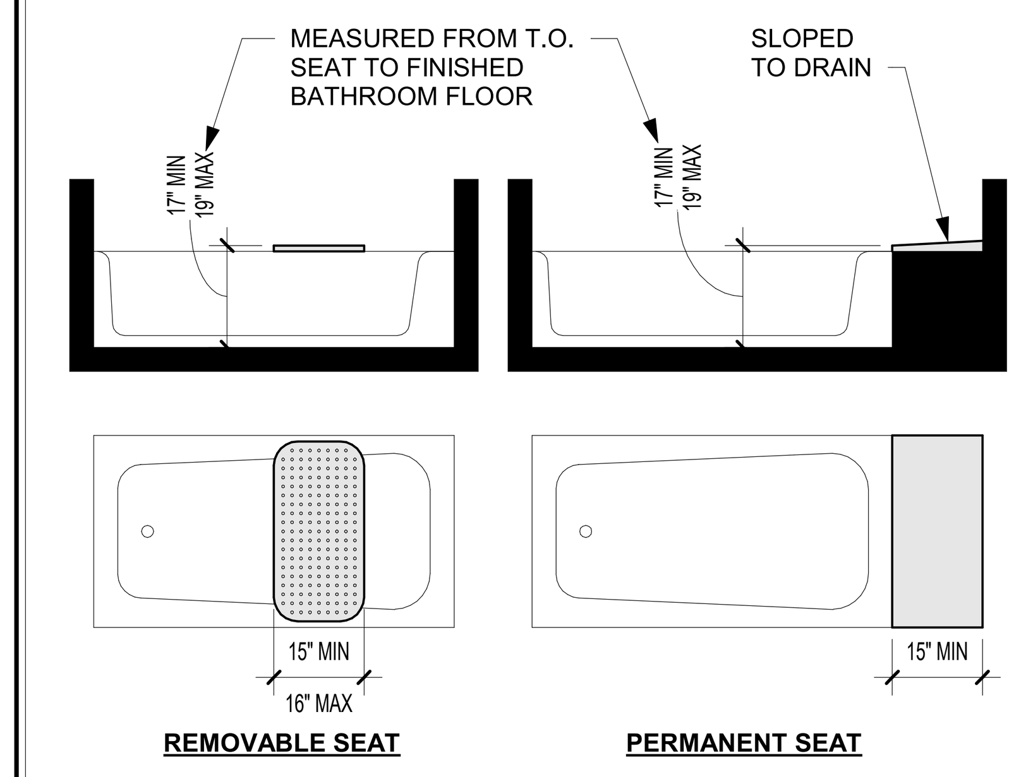
ACCESSORY	MOUNTING HEIGHT	LOCATION
MIRROR	SEE A1/G-303	PUBLIC & UNIT
PAPER TOWEL DISP/RECP	40" AFF MIN TO CONTROLS	PUBLIC
TOILET PAPER DISPENSER (TPD)	SEE D1/G-302	PUBLIC
TOILET PAPER HOLDER (TP)	SEE D1/G-302	UNIT
DIAPER CHANGING STATIONS	34" MAX TO CHANGING SURFACE	PUBLIC
GRAB BARS	SEE G-302	PUBLIC & UNIT
SANITARY NAPKIN RECEPTOR	18" MIN AFF & 24" MIN / 42" MAX FROM REAR WALL	PUBLIC
DRINKING FOUNTAIN	SEE C1/G303	PUBLIC
DRINKING FOUNTAIN - ACCESSIBLE	SEE C1/G-303	PUBLIC
WATER CLOSET (FLOOR-MOUNTED)	1'-4" AFF MIN TO RIM	PUBLIC & UNIT
WATER CLOSET - ACCESSIBLE (FLOOR-MOUNTED)	SEE D1/G-302	PUBLIC & UNIT
LAVATORY	SEE INTERIOR ELEVATIONS	PUBLIC & UNIT
LAVATORY - ACCESSIBLE	SEE A1/G-303	PUBLIC & UNIT
SOAP DISPENSER	40" AFF MIN TO CONTROLS	PUBLIC
MEDICINE CABINET	42" AFF MIN TO TOP OF BOTTOM SHELF	UNIT
MEDICINE CABINET - ACCESSIBLE	40" AFF MIN TO TOP OF BOTTOM SHELF	UNIT

REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION

GENERAL NOTES

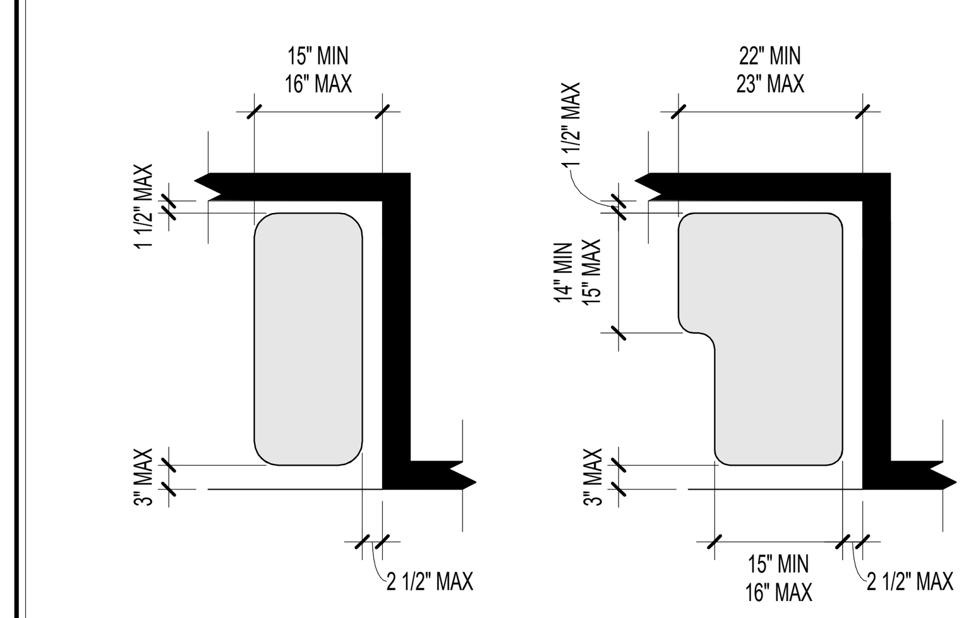
1. GRAB BAR BLOCKING IS REQUIRED AT ALL TOILET, SHOWER AND BATHTUB GRAB BAR LOCATIONS; APPLICABLE AT ALL PUBLIC SPACES, ACCESSIBLE UNITS, "TYPE A" UNITS, AND "TYPE B" UNITS.
2. CONTRACTOR SHALL BE FAMILIAR AND INCORPORATE ALL PROVISIONS AND REQUIREMENTS ESTABLISHED BY CODES APPLICABLE TO THE PROJECT INCLUDING FAIR HOUSING, UFAS, ANSI, & ADAAG

TUB SEAT



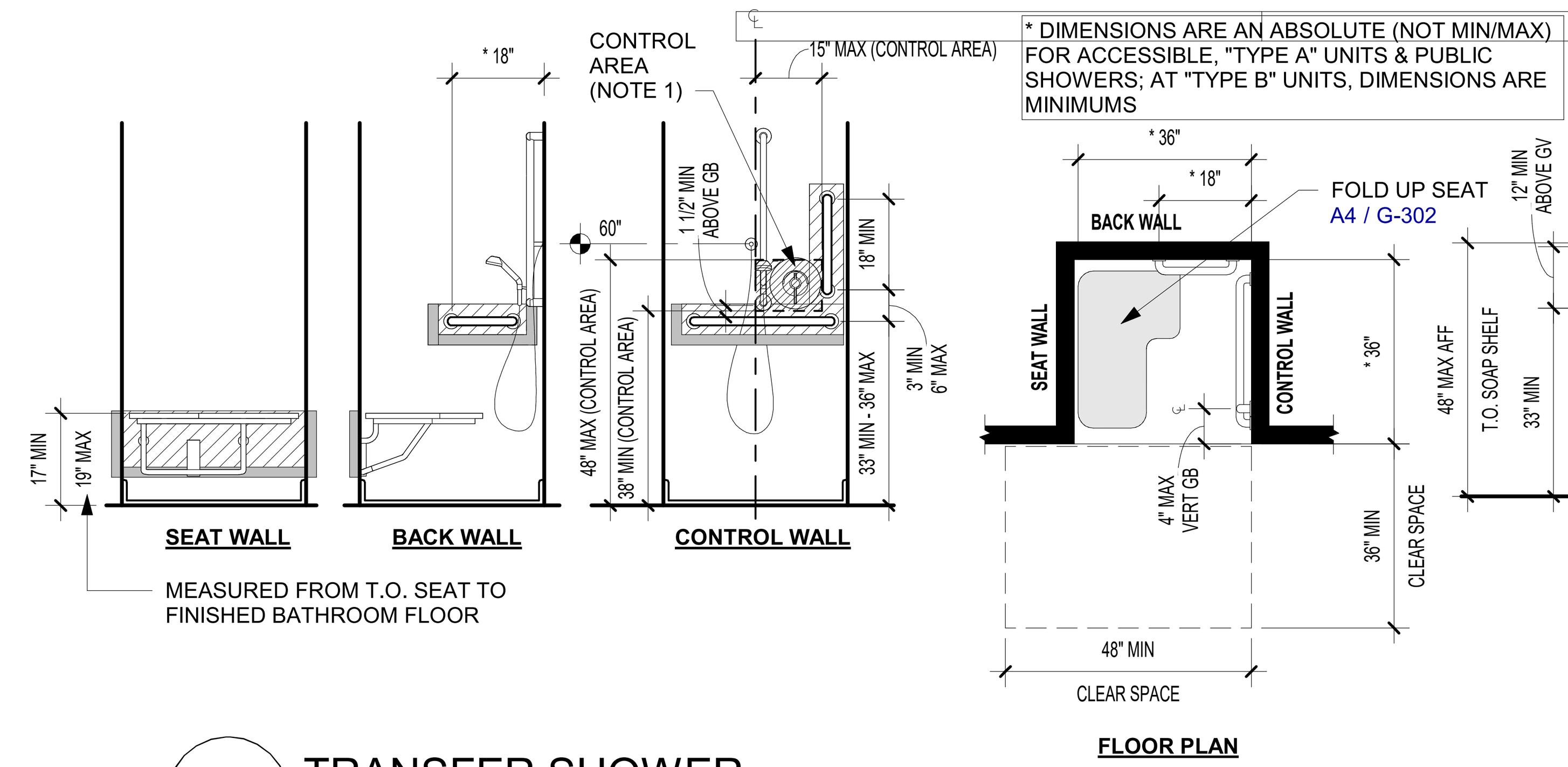
B4 BATHTUB SEAT
NOT TO SCALE

SHOWER SEAT

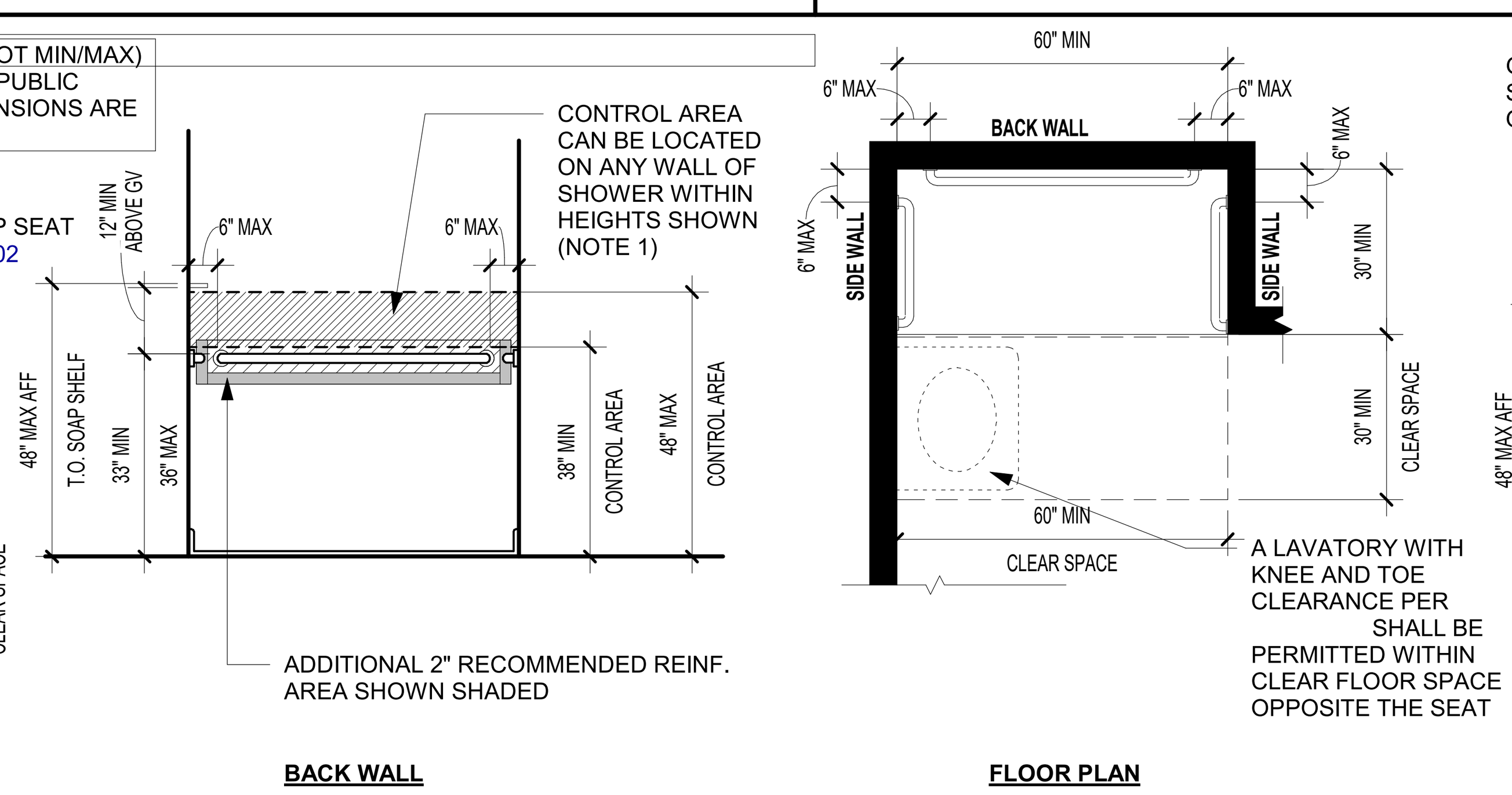


A4 SHOWER SEAT
NOT TO SCALE

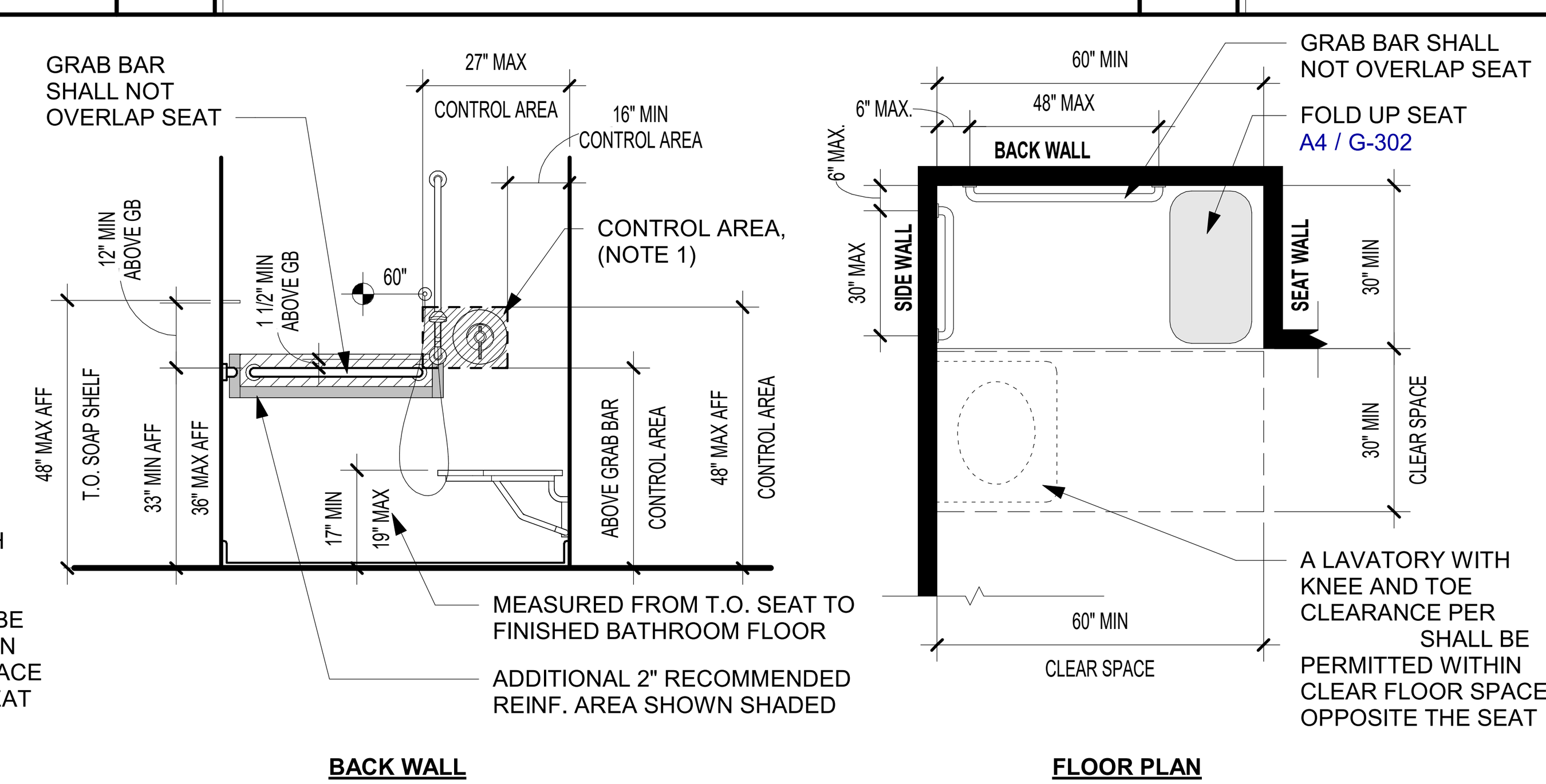
SHOWERS



D3 TRANSFER SHOWER
NOT TO SCALE



C3 ROLL-IN SHOWER W/O SEAT
NOT TO SCALE



B3 ROLL-IN SHOWER W/ SEAT
NOT TO SCALE

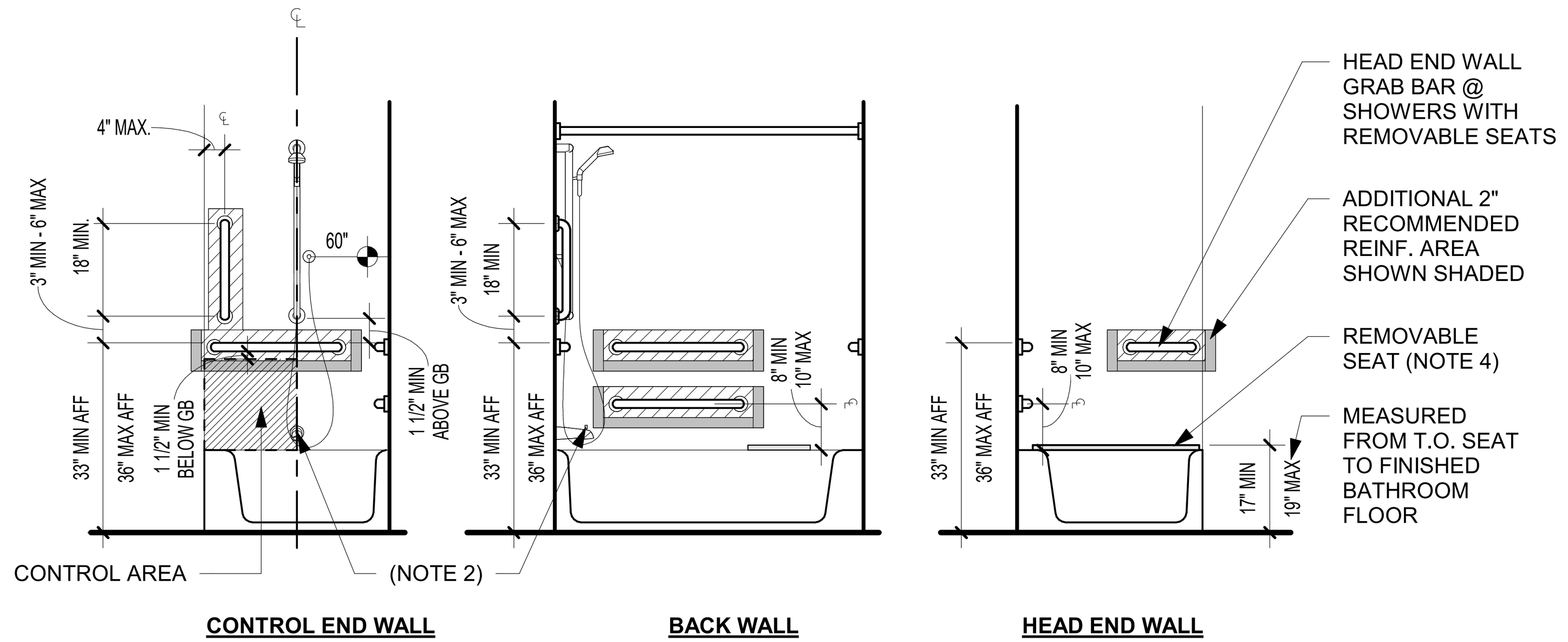
SHOWER NOTES

SHOWER DIAGRAMS & NOTES BELOW ARE APPLICABLE TO PUBLIC, ACCESSIBLE, AND "TYPE A" COMPLIANT BATHROOMS.

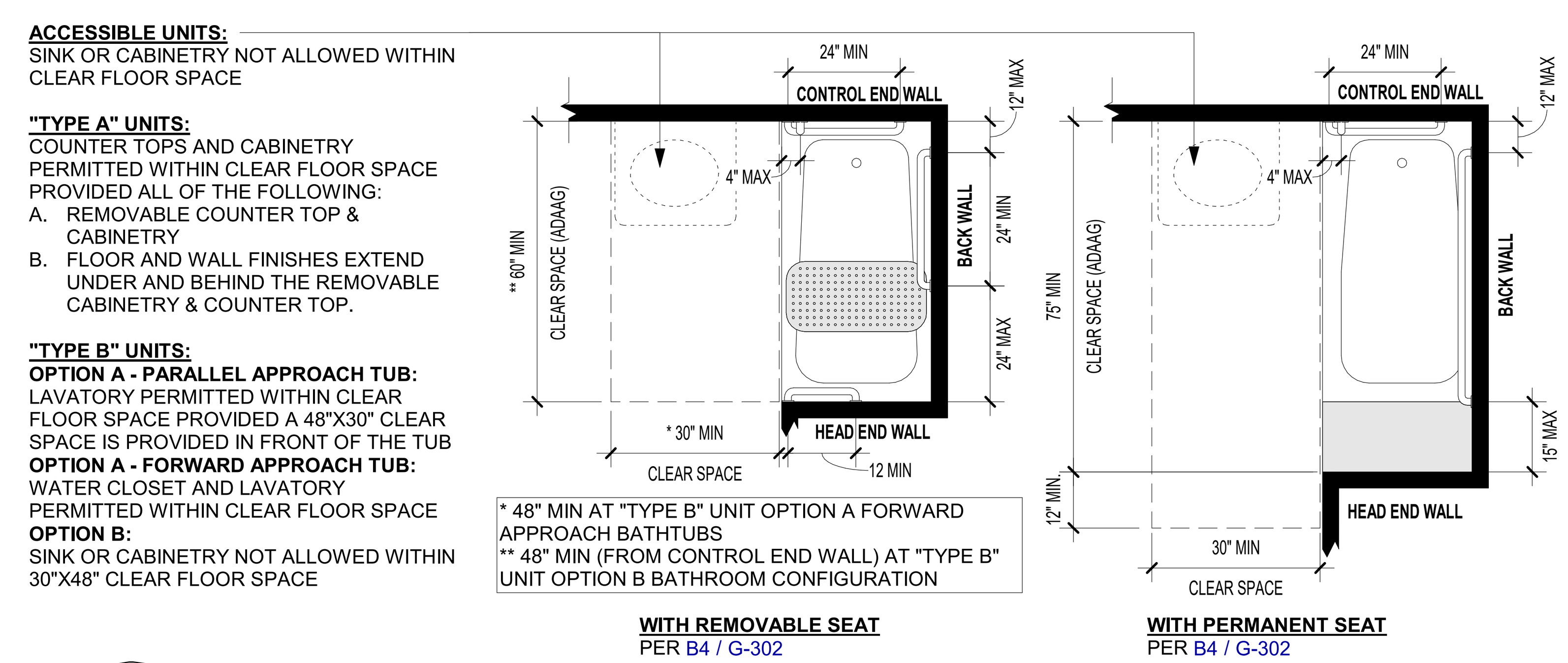
SEE UNIT PLANS AND/OR PLUMBING SCHEDULE FOR "TYPE B" OR EXEMPT SHOWER REQUIREMENTS

1. AN ADJUSTABLE-HEIGHT HAND SHOWER, MOUNTED ON A VERTICAL BAR, SHALL BE INSTALLED SUCH THAT THE HANDLE OF THE HAND SHOWER (POSITIONED AT ITS LOWEST POSITION) SHALL BE LOCATED WITHIN THE CONTROL AREA SHOWN
   A. FIXED SHOWER HEAD MOUNTED AT 48" MAX ABOVE SHOWER FLOOR PERMITTED AT PUBLIC SHOWERS.
2. A HAND SHOWER WITH A HOSE OF 60" MINIMUM IN LENGTH TO BE PROVIDED.
   A. HAND SHOWER SHALL HAVE A CONTROL WITH A NONPOSITIVE SHUT OFF FEATURE.
3. ADDITIONAL 2" RECOMMENDED REINFORCED AREA AROUND GRAB BARS (SHOWN SHADED)
4. SEE UNIT PLANS AND/OR INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION
5. THRESHOLDS SHALL BE 1/2" MAX

TUB



D2 BATHTUB HEIGHT REQ'S
NOT TO SCALE



C2 BATHTUB CLEARANCES
NOT TO SCALE

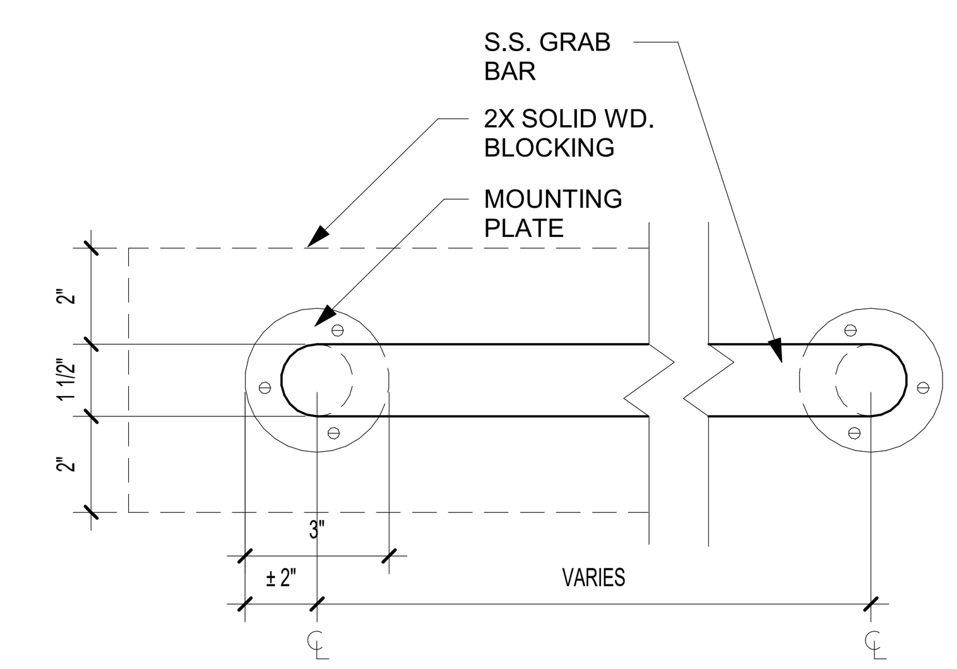
TUB NOTES

TUB DIAGRAMS & NOTES BELOW ARE APPLICABLE TO ACCESSIBLE, AND "TYPE A" COMPLIANT BATHROOMS.

SEE UNIT PLANS AND/OR PLUMBING SCHEDULE FOR "TYPE B" OR EXEMPT TUB REQUIREMENTS.

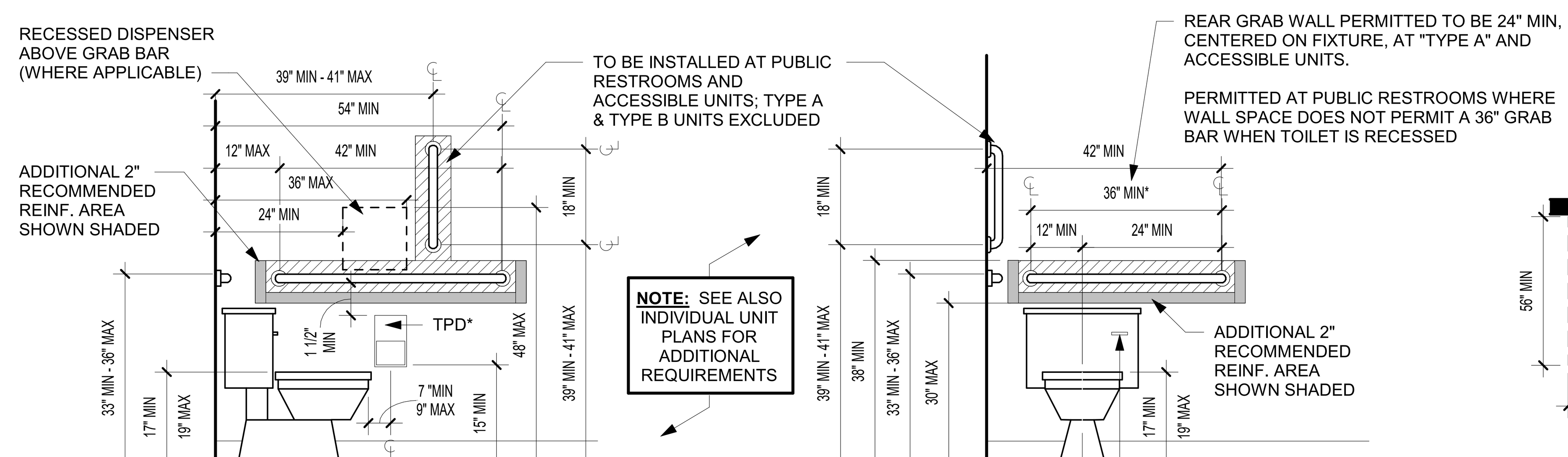
1. A HAND SHOWER WITH A HOSE OF 60" MINIMUM IN LENGTH TO BE PROVIDED.
   A. HAND SHOWER SHALL HAVE A CONTROL WITH A NONPOSITIVE SHUT OFF FEATURE.
2. NO PIN KNOB DIVERTERS IN ACCESSIBLE OR "TYPE A" UNITS AT TUB FAUCETS.
3. ADDITIONAL 2" RECOMMENDED REINFORCED AREA AROUND GRAB BARS (SHOWN SHADED).
4. REMOVABLE SEAT NOT REQUIRED AT "TYPE A" UNITS.
5. SEE UNIT PLANS AND/OR INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.

GRAB BAR



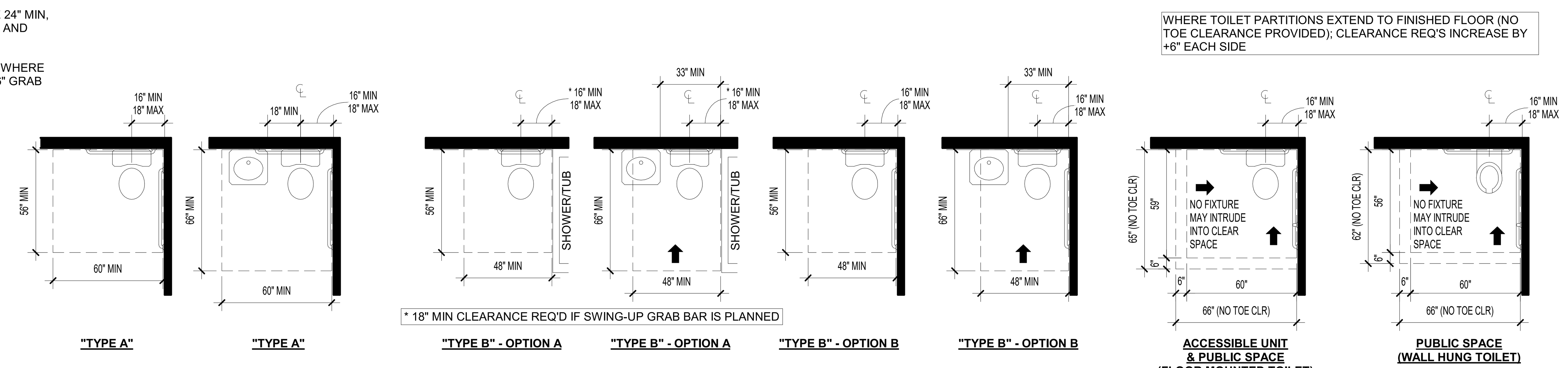
A2 GRAB BAR DETAIL
NOT TO SCALE

TOILET



* TOILET PAPER DISPENSER (TPD) = 2 ROLL DISPENSER, 5" DIAMETER ROLLS
* TOILET PAPER HOLDER (TP) TO BE MOUNTED 21" AFF TO CENTER OF HOLDER, 7"- 9" FROM EDGE OF W.C.
* ALL OTHER DISPENSERS MOUNTED 18" MIN / 48" MAX AFF, AND 24" MIN / 42" MAX FROM BACK WALL TO OUTLET

D1 TOILET STANDARDS
NOT TO SCALE



C1 TOILET APPROACHES
NOT TO SCALE

PRINTS ISSUED
04/17/2024 - CITY SUBMISSION

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STATE OF MISSOURI
DAVID EUGENE HENDRICKSE
NUMBER A-7305
REGISTERED ARCHITECT
04/17/2024

HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
ACCESSIBILITY STANDARDS

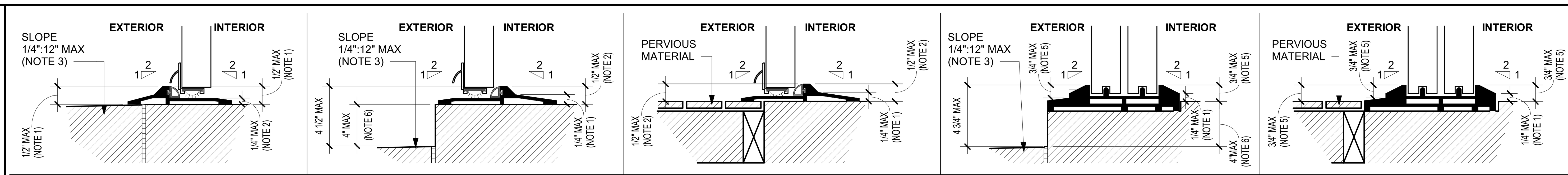
PROJECT NUMBER: 22023

SHEET NUMBER:

G-302

REFERENCE G-003 FOR GENERAL NOTES
DIAGRAMS BELOW ARE APPLICABLE TO PUBLIC SPACES AND ALL UNIT TYPES UNLESS NOTED OTHERWISE

THRESHOLD



SWINGING @ IMPERVIOUS MATERIAL	SWINGING SECONDARY DOOR @ IMPERVIOUS MATERIAL	SWINGING SECONDARY DOOR @ PERVIOUS MATERIAL	SLIDING SECONDARY DOOR @ IMPERVIOUS MATERIAL	SLIDING SECONDARY DOOR @ PERVIOUS MATERIAL
ALL DOORS INTENDED FOR PASSAGE	BALCONY OR OTHER EXTERIOR DOORS	BALCONY OR OTHER EXTERIOR DOORS	BALCONY OR OTHER EXTERIOR DOORS	BALCONY OR OTHER EXTERIOR DOORS
✓ PUBLIC DOORS		✓ PUBLIC DOORS		
✓ ACCESSIBLE UNITS (ALL DOORS)		✓ ACCESSIBLE UNITS		
✓ "TYPE A" UNITS (ALL DOORS)		✓ "TYPE A" UNITS		
✓ "TYPE B" UNITS (UNIT ENTRY DOORS ONLY)	✓ "TYPE B" UNITS	✓ "TYPE B" UNITS	✓ "TYPE B" UNITS	✓ "TYPE B" UNITS

SEE ARCHITECTURAL DRAWINGS FOR PROJECT SPECIFIC THRESHOLD DETAILS AND WEATHER PROOFING

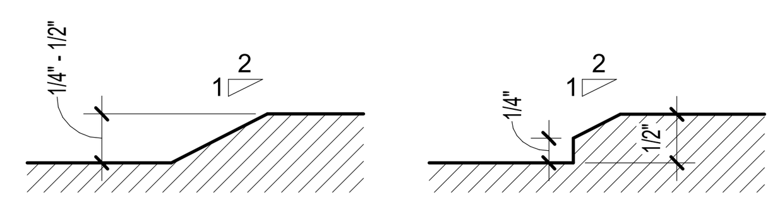
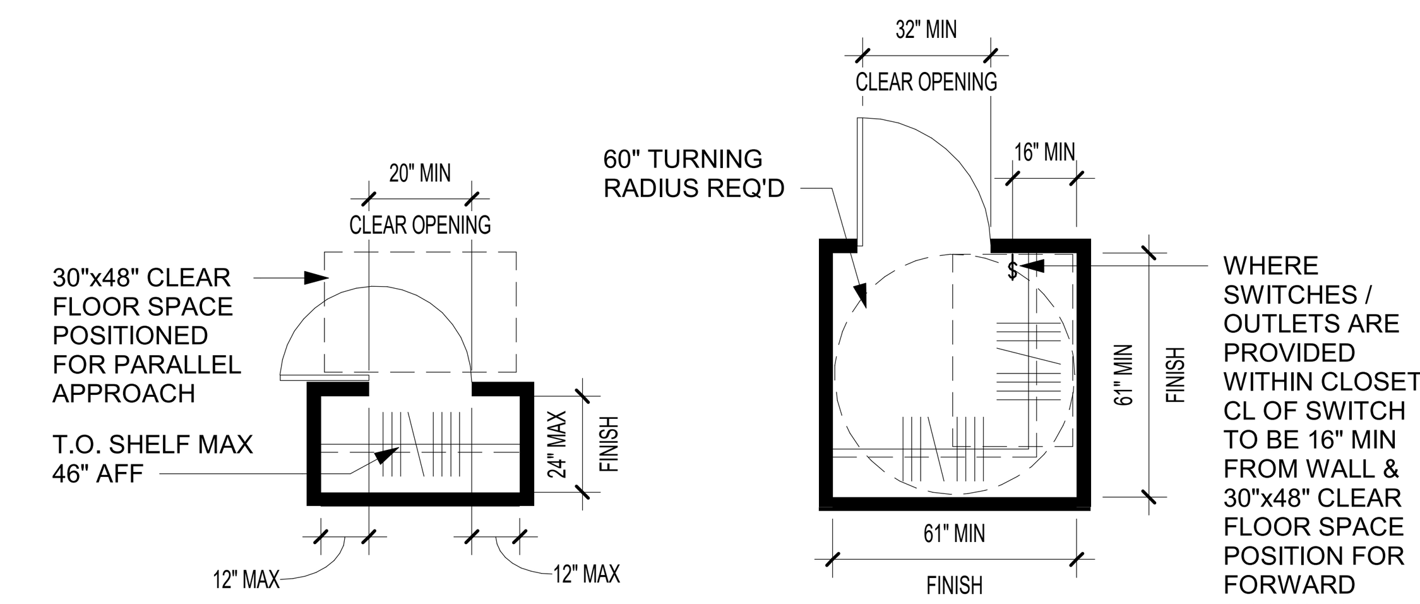


IMAGE 3 | IMAGE 2 | IMAGE 1

NOTES:
1. CHANGES IN LEVEL OF 1/4" MAXIMUM IN HEIGHT SHALL BE PERMITTED TO BE VERTICAL WITH NO BEVEL PROVIDED **(IMAGE 1)**
2. CHANGES IN LEVEL GREATER THAN 1/4" SHALL BE BEVELED WITH A 1:2 SLOPE FOR UP TO 1/2" MAX **(IMAGE 2,3)**
3. FINISHED SURFACE OUTSIDE OF PRIMARY ENTRY DOOR MAY BE SLOPED AT A MAXIMUM OF 1/4" PER 12"
4. **EXISTING BUILDINGS ONLY**: EXISTING OR ALTERED THRESHOLDS SHALL BE PERMITTED TO BE 3/4" MAX WITH A 1:2 BEVELED EDGE ON EA SIDE OF HEIGHT EXCEEDING 1/4"
5. **SLIDING DOORS ONLY:** THRESHOLD SHALL BE PERMITTED TO BE 3/4" MAX WITH A 1:2 BEVELED EDGE ON EACH SIDE FOR HEIGHT EXCEEDING 1/4"
6. ALLOWABLE AT SECONDARY EXTERIOR RESIDENTIAL DOORS ONLY (**ANSI A117.1 1004.4.2 & FHA 4.11**)

C4 CHANGES IN LEVEL & THRESHOLDS
NOT TO SCALE

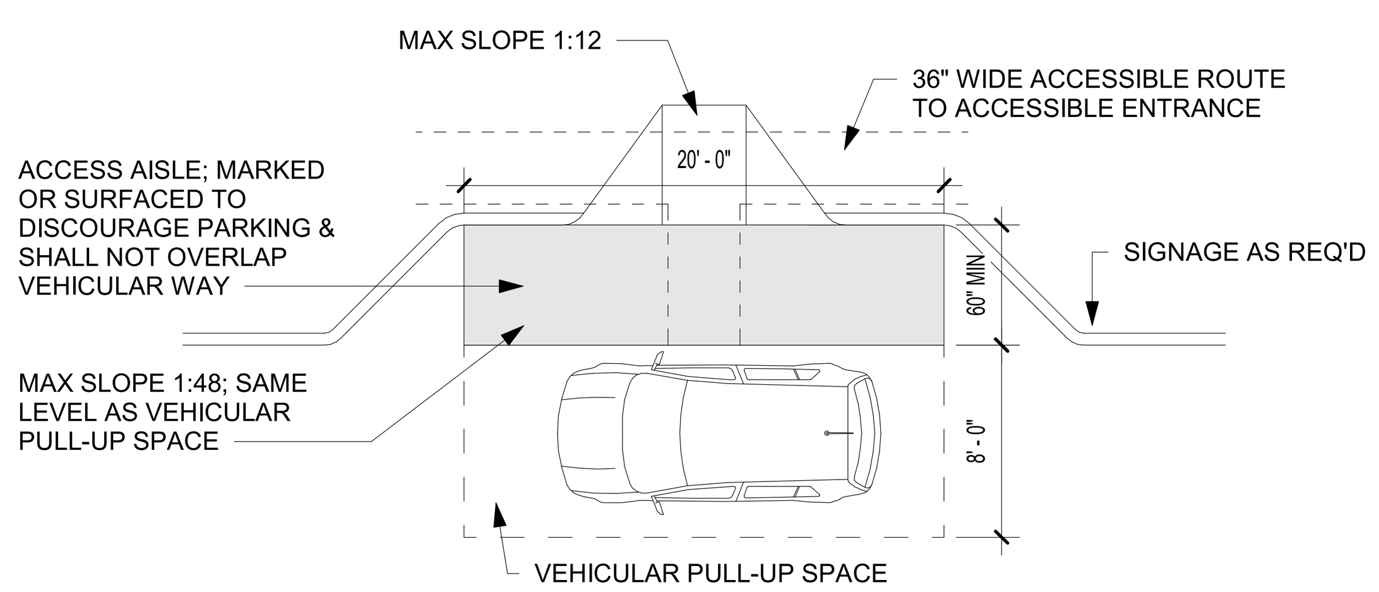
CLOSETS



LOCATIONS: PUBLIC, ACCESSIBLE, AND "TYPE A" UNITS

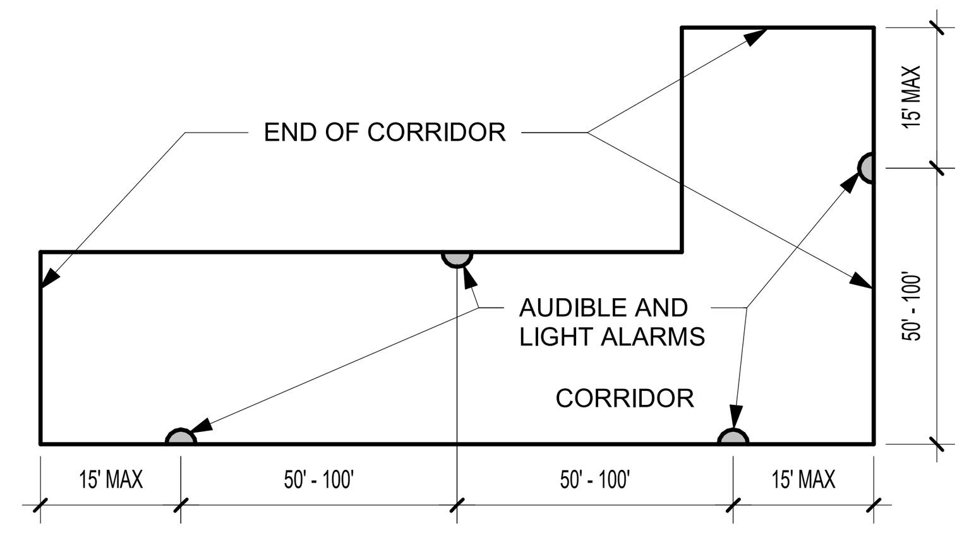
A4 CLOSET DIMENSIONS - UFAS/ADAAG COMPLIANT
NOT TO SCALE

PASSENGER LOADING ZONE

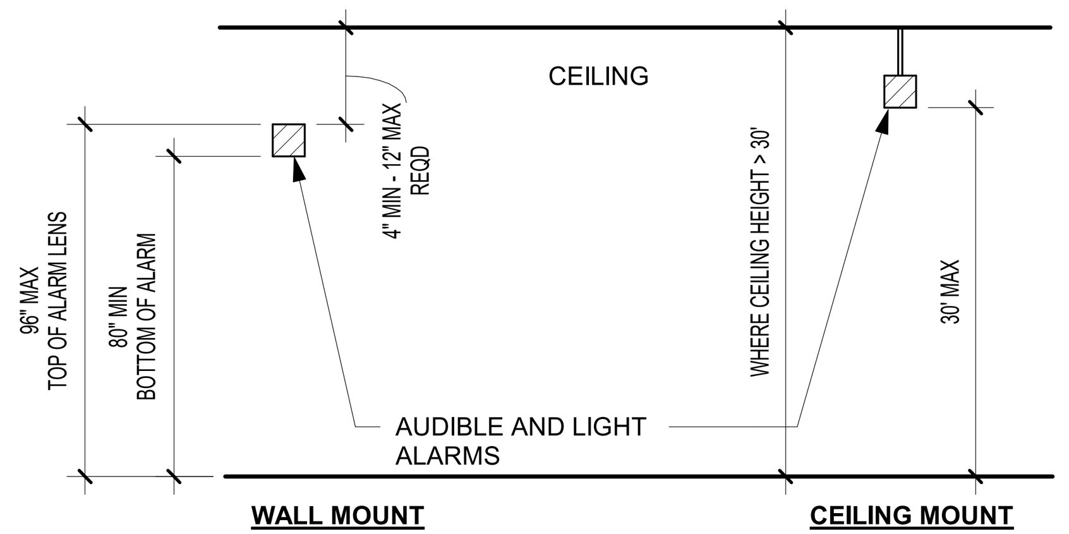


D3 PASSENGER LOADING ZONE
NOT TO SCALE

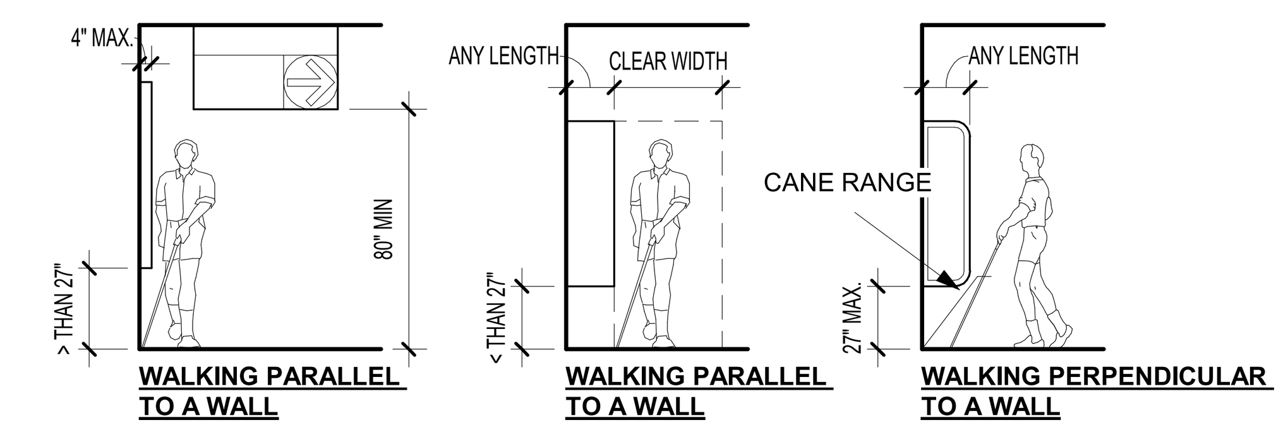
HEARING & VISION IMPAIRED



C3 ALARM SPACING IN CORRIDOR
NOT TO SCALE

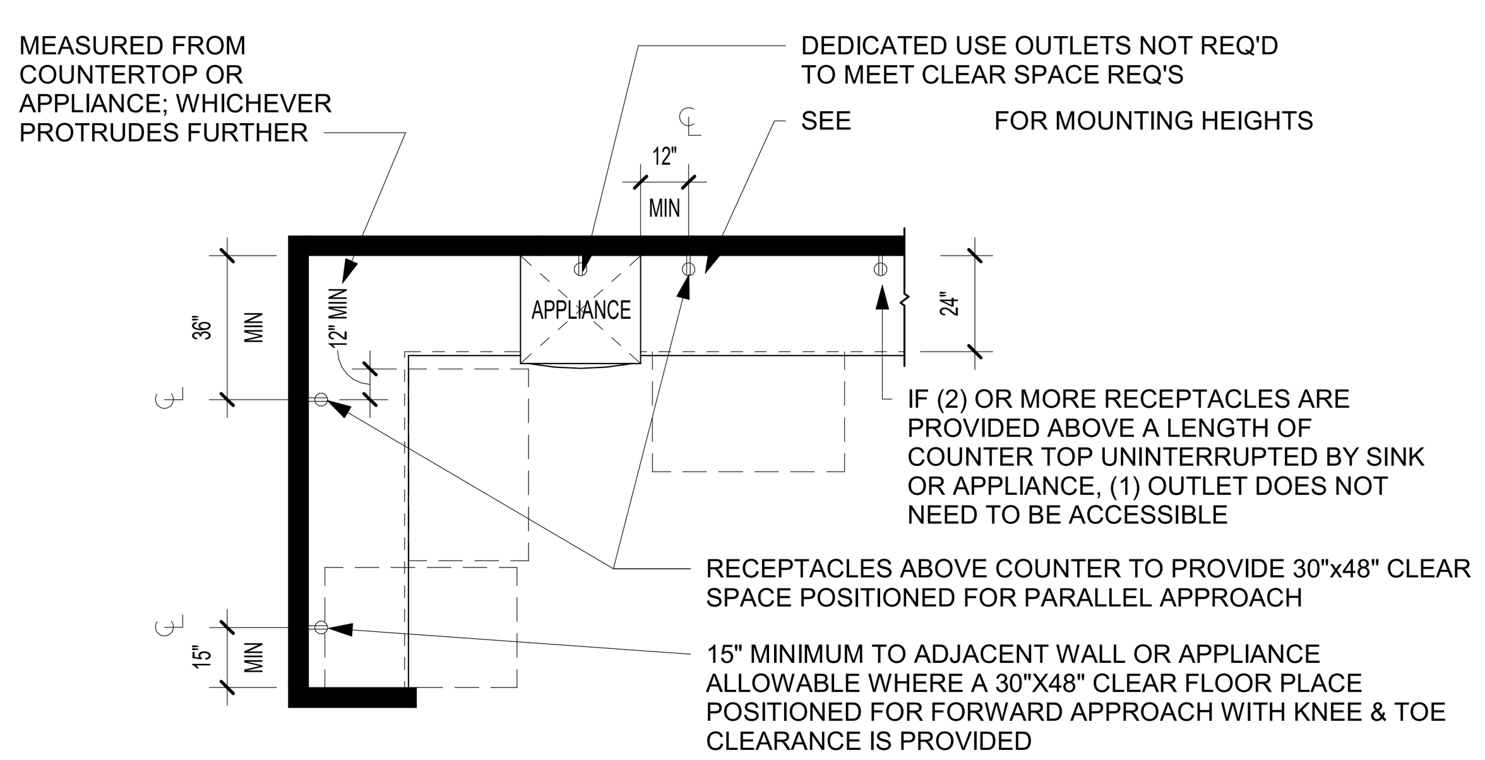


B3 CEILING/ WALL MOUNTED ALARM LOCATIONS
NOT TO SCALE



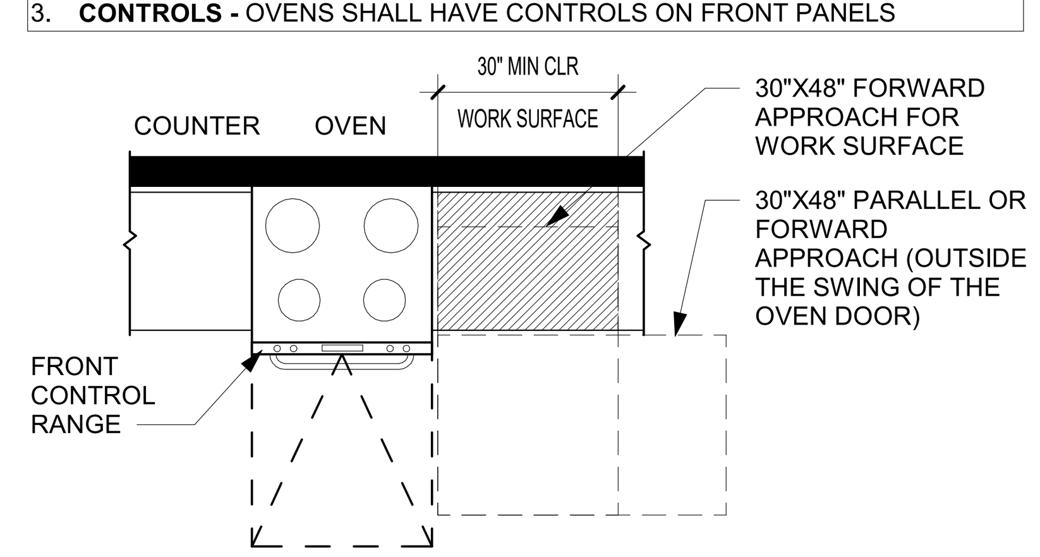
A3 PROTRUDING OBJECTS
NOT TO SCALE

KITCHENS



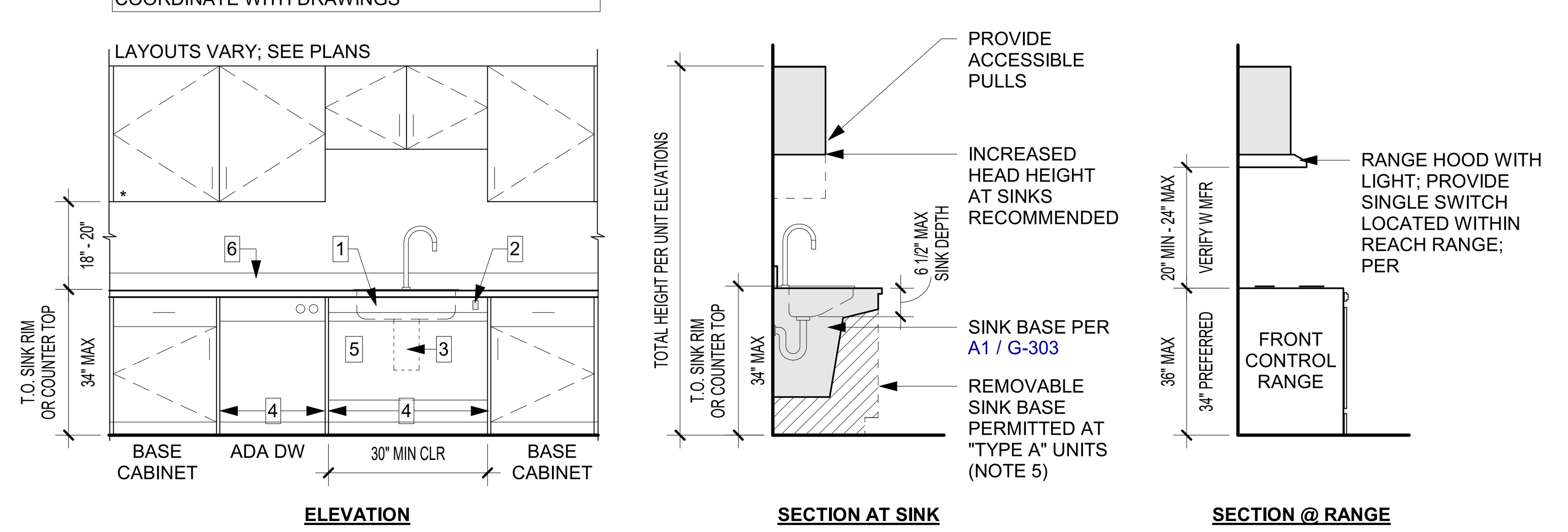
D2 ABOVE COUNTER RECEPTACLES
NOT TO SCALE

NOTE:
FOR PUBLIC SPACES, ACCESSIBLE UNITS, AND "TYPE A" UNITS:
1. **SIDE-HINGED DOOR OVENS** - WORK SURFACE IS TO BE POSITIONED ADJACENT TO THE LATCH SIDE OF THE OVEN DOOR.
2. **BOTTOM-HINGED DOOR OVENS** - WORK SURFACE IS TO BE POSITIONED ADJACENT TO ONE SIDE OF THE OVEN DOOR.
3. **CONTROLS** - OVENS SHALL HAVE CONTROLS ON FRONT PANELS



C2 OVEN WITH WORK SPACE
NOT TO SCALE

* AT PUBLIC SPACES, 50% OF SHELF SPACE SHALL BE WITHIN REACH RANGE (2010 ADA 804.5); COORDINATE WITH DRAWINGS



B2 KITCHEN REQUIREMENTS
NOT TO SCALE

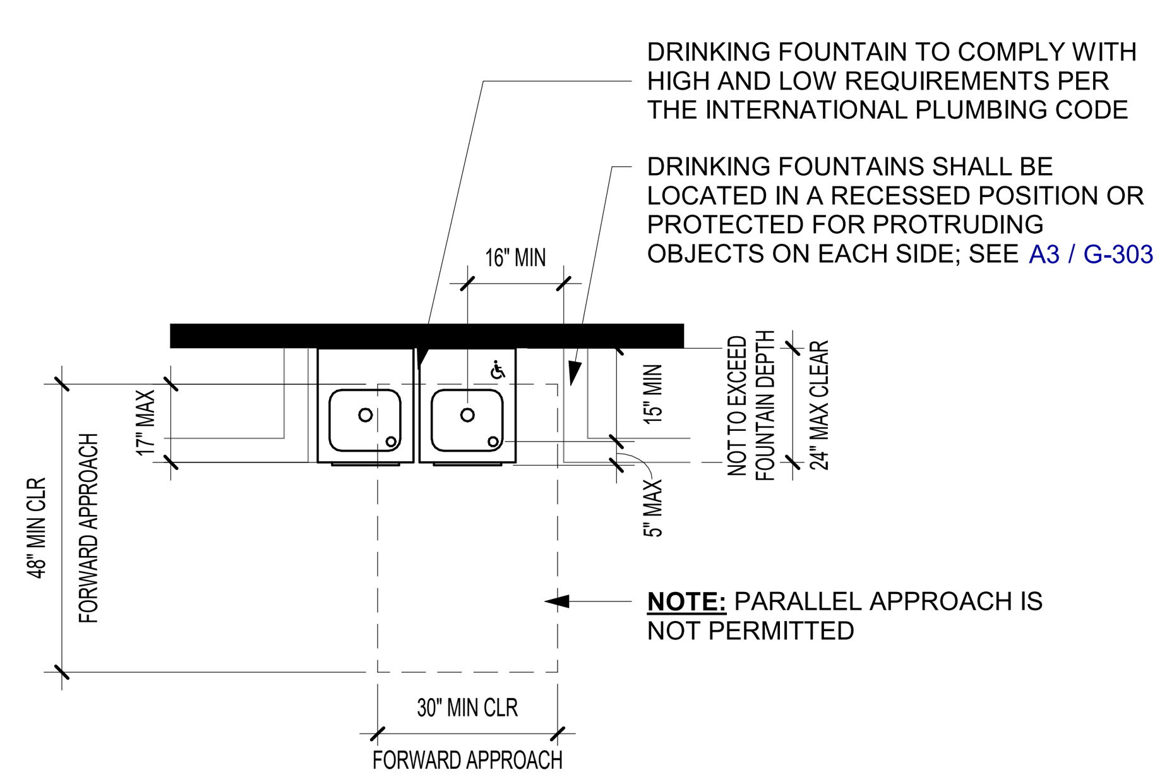
KITCHEN NOTES

KITCHEN DIAGRAMS AND NOTES APPLICABLE TO PUBLIC SPACES, ACCESSIBLE, AND "TYPE A" COMPLIANT KITCHENS

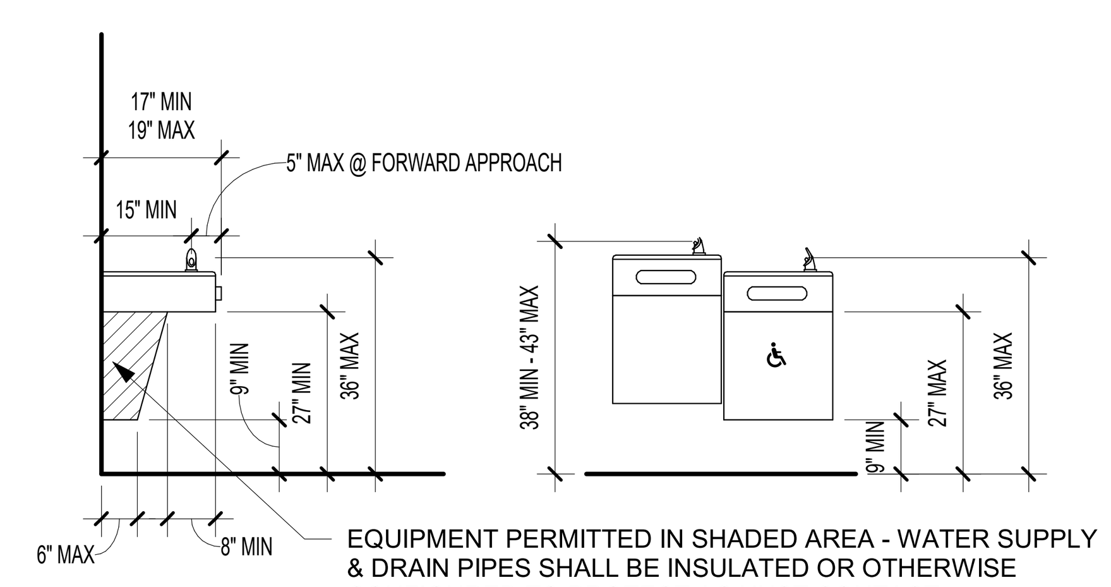
SEE UNIT PLANS AND/OR INTERIOR ELEVATIONS FOR "TYPE B" OR EXEMPT KITCHENS

NOTES:
1. SINK DEPTH MAX 6 1/2" AND HAVE REAR LOCATED DRAINS
2. GARBAGE DISPOSAL SWITCH TO BE LOCATED WITHIN REACH RANGE; COORDINATE FINAL LOCATION WITH ARCHITECT
3. INSULATE ALL PIPES AND DRAIN EXPOSED BELOW SINK
4. PROVIDE FINISHED END PANELS EACH SIDE OF SINK PANEL AND DISHWASHER
   A. WALL BASE, WALL FINISH & FLOOR FINISH TO CONTINUE TO UNDERSIDE OF SINK
5. CABINETRY PERMITTED UNDER SINK AT "TYPE A" UNITS PROVIDED ALL THE FOLLOWING:
   A. REMOVABLE CABINETRY WITHOUT REPLACING SINK
   B. FLOORING, WALL FINISH, AND WALL BASE TO CONTINUE TO UNDERSIDE OF SINK
6. BACKSPLASH VARIES; COORDINATE WITH DRAWINGS
7. SEE INDIVIDUAL UNIT PLANS AND INTERIOR ELEVATIONS FOR SPECIFIC LAYOUTS

DRINKING FOUNTAINS

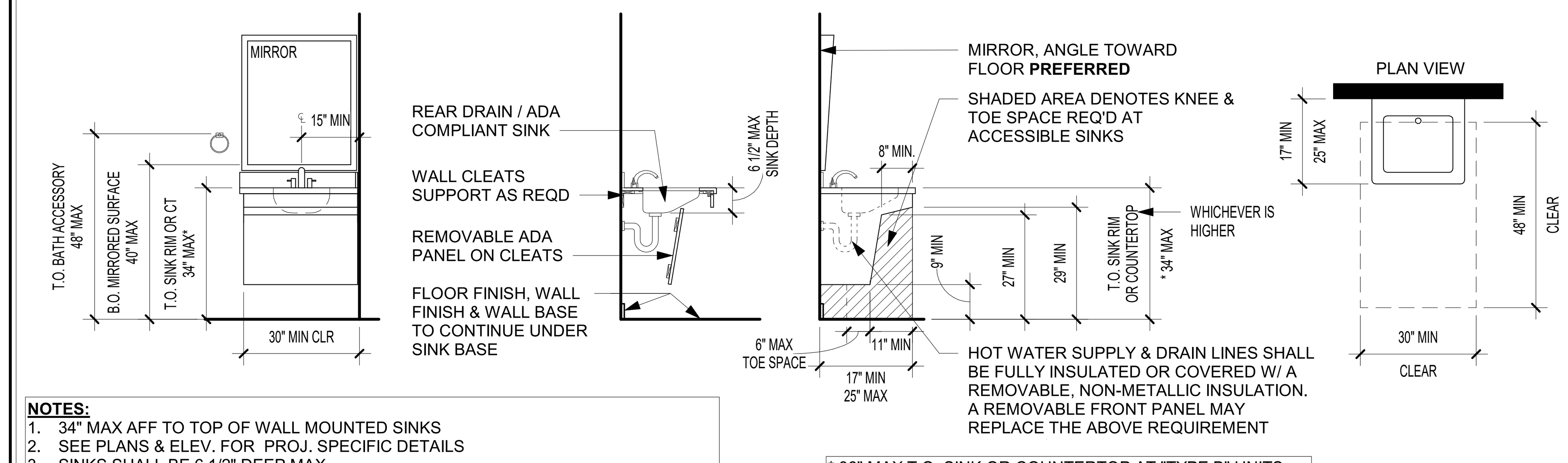


D1 DRINKING FOUNTAINS CLEAR SPACE REQUIREMENTS
NOT TO SCALE



C1 DRINKING FOUNTAIN HEIGHT REQUIREMENTS
NOT TO SCALE

SINKS



NOTES:
1. 34" MAX AFF TO TOP OF WALL MOUNTED SINKS
2. SEE PLANS & ELEV. FOR PROJ. SPECIFIC DETAILS
3. SINKS SHALL BE 6 1/2" DEEP MAX

FOR "TYPE B" UNITS:
1. PARALLEL APPROACH CENTERED ON SINK PERMITTED WHEN CENTERLINE OF SINK IS 24" MIN FROM ADJACENT WALL
2. IF FORWARD APPROACH IS PROVIDED, CABINETRY ALLOWED UNDER THE LAVATORY PROVIDED:
   A. CABINETRY CAN BE REMOVED WITHOUT REPLACEMENT OF THE LAVATORY
   B. FLOOR FINISH EXTENDS UNDER THE CABINETRY
   C. WALLS BEHIND AND SURROUNDING THE CABINETRY ARE FINISHED

* 36" MAX T.O. SINK OR COUNTERTOP AT "TYPE B" UNITS

A1 SINK KNEE & TOE CLEARANCES & HEIGHT REQUIREMENTS
NOT TO SCALE
LOCATIONS: PUBLIC AREAS, ACCESSIBLE UNITS, "TYPE A" UNITS

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STATE OF MISSOURI DAVID EUGENE HENDRIKSE NUMBER 7305 REGISTERED ARCHITECT 04/17/2024

HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

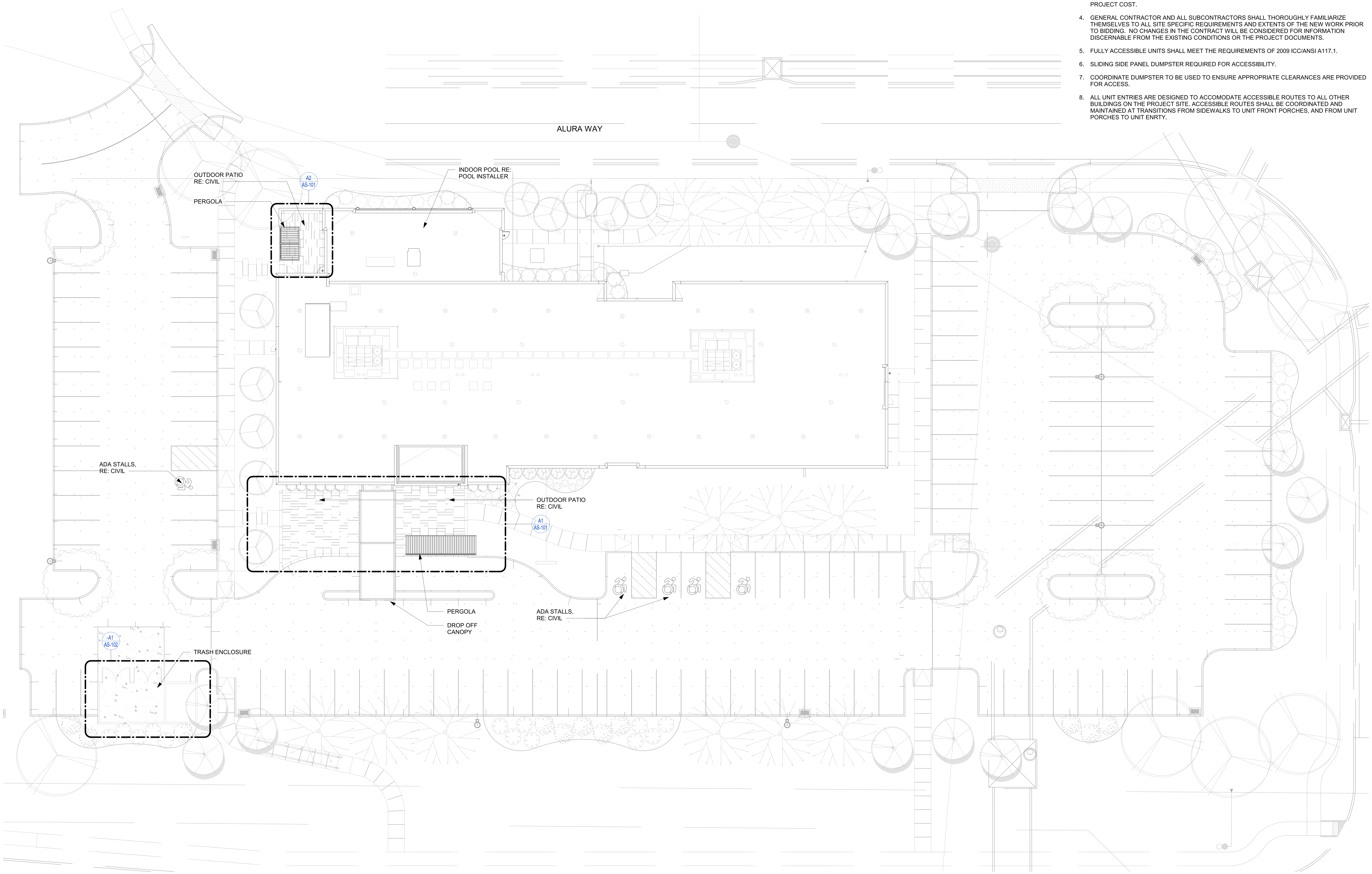
SHEET TITLE
ACCESSIBILITY STANDARDS

PROJECT NUMBER: 22023

SHEET NUMBER:
G-303

ARCHITECTURAL SITE AMENITIES PLAN GENERAL NOTES

1. ARCHITECTURAL SITE PLAN IS FOR GENERAL INFORMATION AND LAYOUT ONLY. REFERENCE THE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION, BUILDING PLACEMENT, GRADES, UTILITIES AND ACTUAL FLOOR ELEVATION FOR EACH BUILDING.
2. DO NOT SCALE DRAWINGS.
3. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN PROJECT DOCUMENTS AND EXISTING CONDITIONS. ANY MODIFICATIONS DUE TO DIMENSIONAL CHANGES SHOULD BE PART OF THE PROJECT COST.
4. GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL THOROUGHLY FAMILIARIZE THEMSELVES TO ALL SITE SPECIFIC REQUIREMENTS AND EXTENTS OF THE NEW WORK PRIOR TO BIDDING. NO CHANGES IN THE CONTRACT WILL BE CONSIDERED FOR INFORMATION DISCERNABLE FROM THE EXISTING CONDITIONS OR THE PROJECT DOCUMENTS.
5. FULLY ACCESSIBLE UNITS SHALL MEET THE REQUIREMENTS OF 2009 ICC/ANSI A117.1.
6. SLIDING SIDE PANEL DUMPSTER REQUIRED FOR ACCESSIBILITY.
7. COORDINATE DUMPSTER TO BE USED TO ENSURE APPROPRIATE CLEARANCES ARE PROVIDED FOR ACCESS.
8. ALL UNIT ENTRIES ARE DESIGNED TO ACCOMODATE ACCESSIBLE ROUTES TO ALL OTHER BUILDINGS ON THE PROJECT SITE. ACCESSIBLE ROUTES SHALL BE COORDINATED AND MAINTAINED AT TRANSITIONS FROM SIDEWALKS TO UNIT FRONT PORCHES, AND FROM UNIT PORCHES TO UNIT ENRTY.



A1 ARCHITECTURAL SITE PLAN
1/16" = 1'-0"

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DAVID EUGENE HENDRIKSE
NUMBER A-7305
REGISTERED ARCHITECT
04/17/2024

HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
AMENITIES PLAN

PROJECT NUMBER: 22023

SHEET NUMBER:

AS-100

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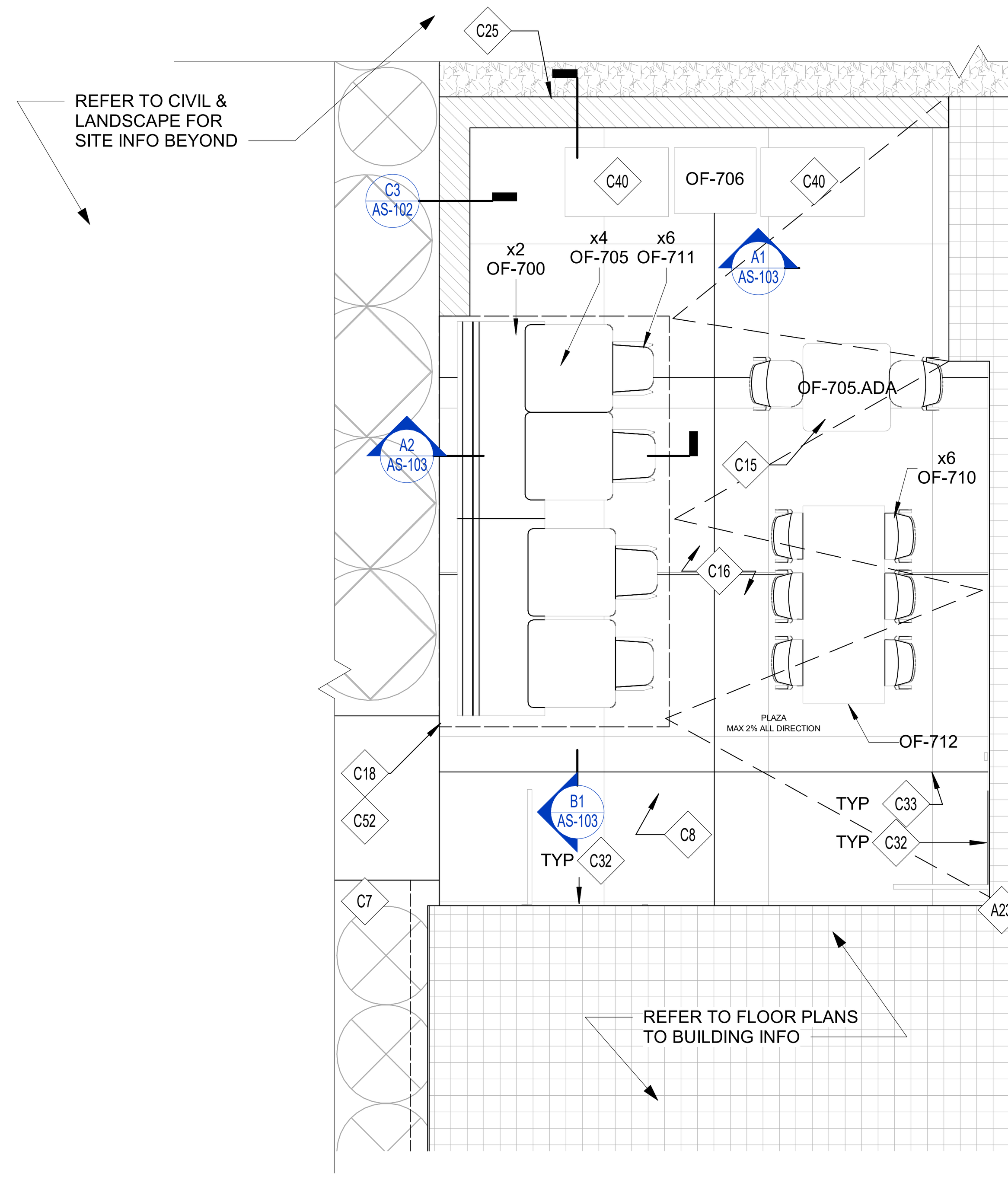
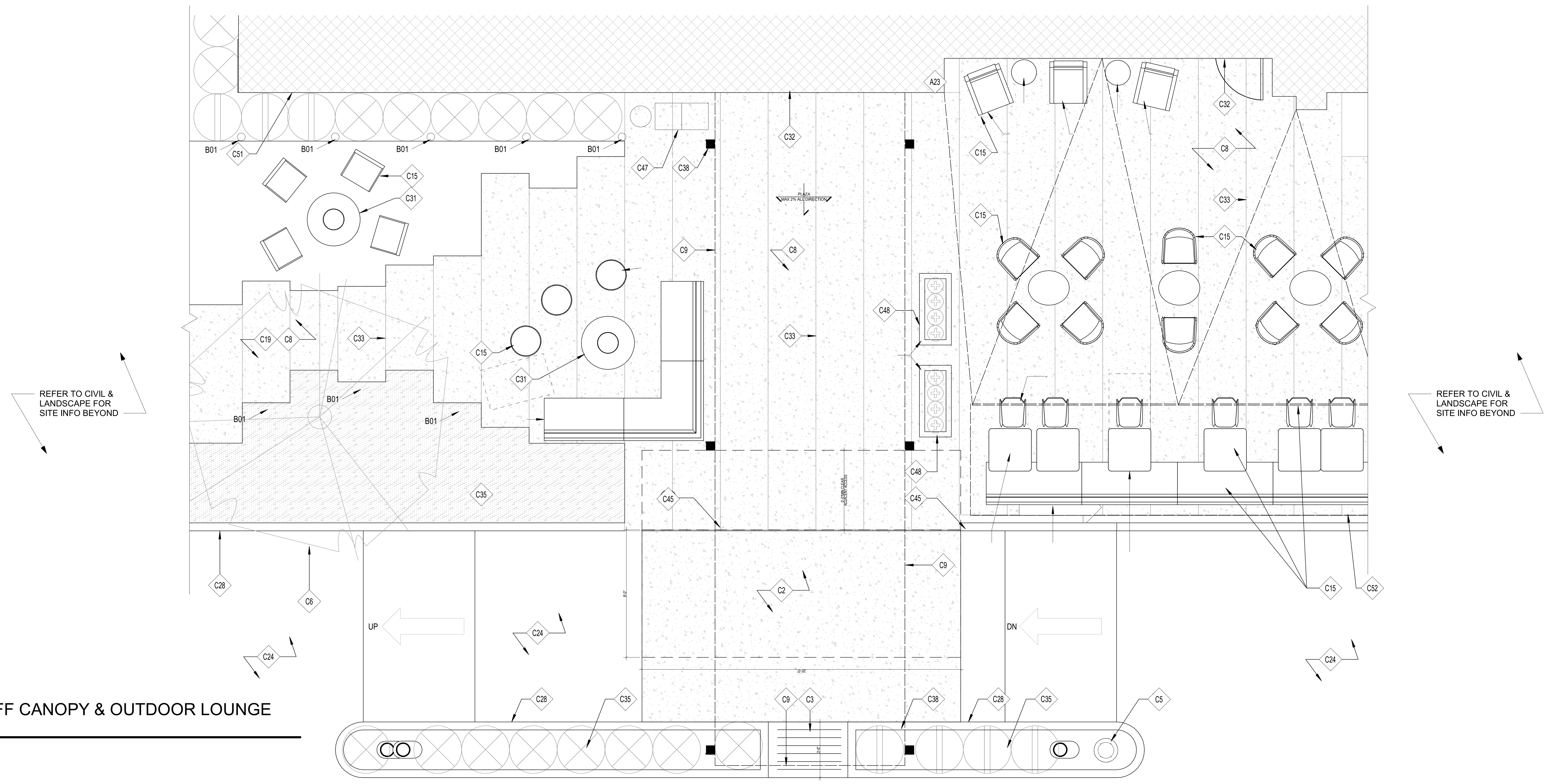


A2 GRILLING PATIO PLAN
1/4" = 1'-0"



A1 ENTRANCE/DROP OFF CANOPY & OUTDOOR LOUNGE PLAN
1/4" = 1'-0"

KEYNOTE LEGEND

REFERENCE G-003 FOR GENERAL NOTES

A23	HOUSE PHONE
C2	ACCESSIBLE PASSENGER DROP OFF AREA W/ ADJACENT CLEAR ACCESS AISLE - DROP OFF AND ACCESS AISLE SHALL BE AT THE SAME LEVEL & SHALL HAVE A SLOPE NOT TO EXCEED 1:48 (1:64 RECOMMENDED) - DRIVE AISLES SHALL RAMP UP TO LEVEL OF WALK AT DROP-OFF AREA - REFER TO MATERIAL LEGEND FOR SPECIFIC PAVING OF THIS AREA. REFER TO THE HADG FOR MORE INFORMATION REGARDING ACCESSIBLE PASSENGER LOADING ZONES
C3	ACCESSIBLE CURB RAMP TO MEET ALL ACCESSIBILITY REQUIREMENTS, MAXIMUM SLOPE OF RUN 1:12 (1:14 RECOMMENDED), MAXIMUM CROSS SLOPE OF 1:48 (1:64 RECOMMENDED), REFER TO THE HADG FOR FURTHER INFORMATION
C5	OPTIONAL FLAGPOLE WITH IN-GROUND UPLIGHT
C6	SPECIMEN TREE
C7	PAVED WALKWAY - SLOPE AWAY FROM BLDG. (MAX 2% CROSS SLOPE) - SILICA-BASED AGGREGATE
C8	DECORATIVE NON-SLIP PAVING
C9	LINE OF CANOPY ROOF ABOVE
C15	OUTDOOR LOUNGE - REFER TO FF&E SPEC'S FOR LOOSE FURNISHINGS
C16	POOL PATIO - REFER TO FF&E SPEC'S FOR LOOSE FURNISHINGS
C18	TRELLIS ABOVE - SEE DETAILS SHEET A-305
C19	ACCESSIBLE ROUTE FROM ACCESSIBLE PARKING TO BUILDING ENTRANCE. PROVIDE A RUNNING SLOPE OF MAXIMUM 1:20 AND A CROSS SLOPE OF MAXIMUM 1:48 (1:64 RECOMMENDED). REFER TO HADG FOR FURTHER INFORMATION.
C24	ASPHALT OR CONC. PAVING SHALL COMPLY W/ LOCAL REQUIREMENTS - PROVIDE POSITIVE DRAINAGE AWAY FROM BLDG. - COORDINATE SITE DRAINAGE & DETENTION W/ CIVIL ENGINEER
C25	PARTIAL HEIGHT WALL
C28	CONTINUOUS CONCRETE CURB - TYP.
C31	EXTERIOR FIRE PIT WITH MANUAL EMERGENCY REMOTE SHUT-OFF VALVE, SECURE IN PLACE TO RESIST MOVEMENT, FEED WITH UNDERGROUND LINE FROM BUILDING GAS SERVICE. PROVIDE APPROPRIATELY SIZED SAFETY SCREEN
C32	EXPANSION JOINT
C33	CONTROL JOINT
C35	LANDSCAPE AREA - REFER TO LANDSCAPE SHEETS FOR PLANTING PLAN
C38	PRIMED AND PAINTED TUBE STEEL CANOPY COLUMNS
C40	EXTERIOR GAS GRILL. GRILLS REQUIRE REMOTE EMERGENCY SHUT OFF.
C45	FLUSH CURB ALONG ENTIRE LENGTH OF ACCESSIBLE DROP OFF
C47	TRASH, RECYCLING, AND ASH BIN
C48	24" X 54" FRC PLANTERS
C51	EMERGENCY GAS SHUT OFF
C52	PROVIDE POWER FOR PLUG IN STRIP LIGHT AT TRELLIS

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DAVID EUGENE HENDRICKSE
NUMBER A-7305
REGISTERED ARCHITECT
04/17/2024

HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

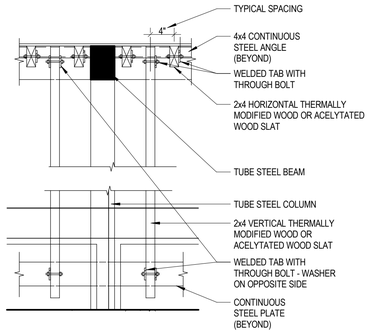
SHEET TITLE
ARCHITECTURAL SITE AMENITIES

PROJECT NUMBER: 22023

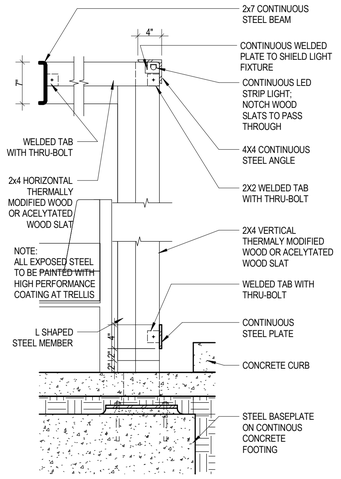
SHEET NUMBER:

AS-101

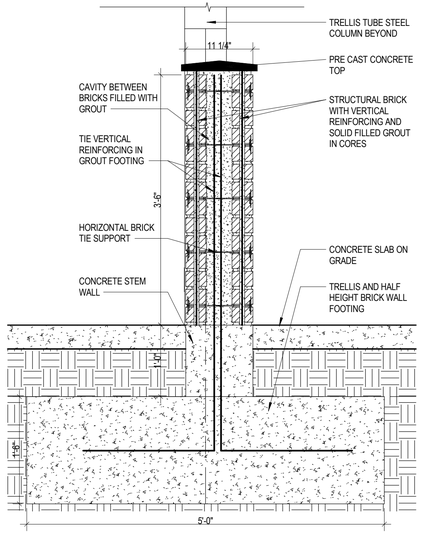
REFERENCE G-003 FOR GENERAL NOTES



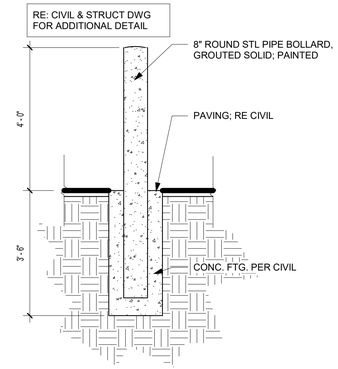
D4 TRELLIS - SLAT CONNECTIONS
1" = 1'-0"



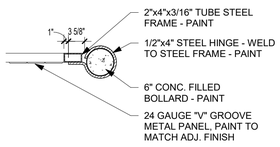
D3 TRELLIS - DETAIL
1" = 1'-0"



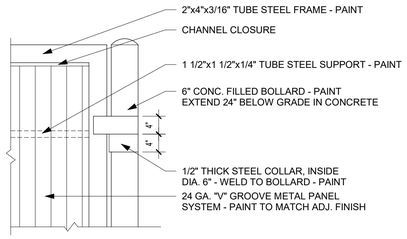
C3 BRICK MASONRY WALL SECTION
1" = 1'-0"



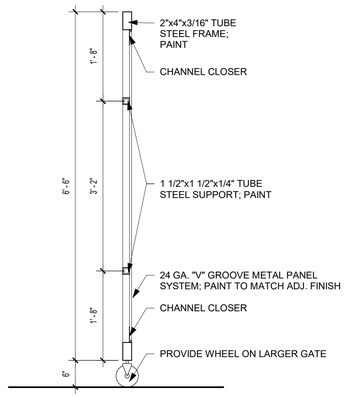
B3 SITE - BOLLARD - STEEL
1/2" = 1'-0"



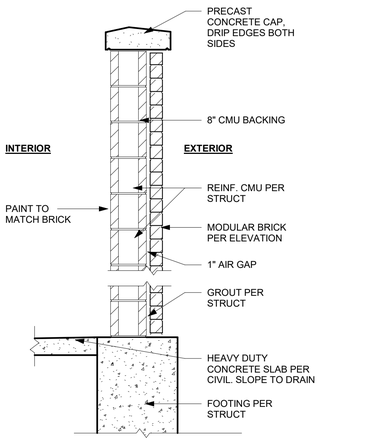
A4 TRASH GATE CROSS SECTION
3/4" = 1'-0"



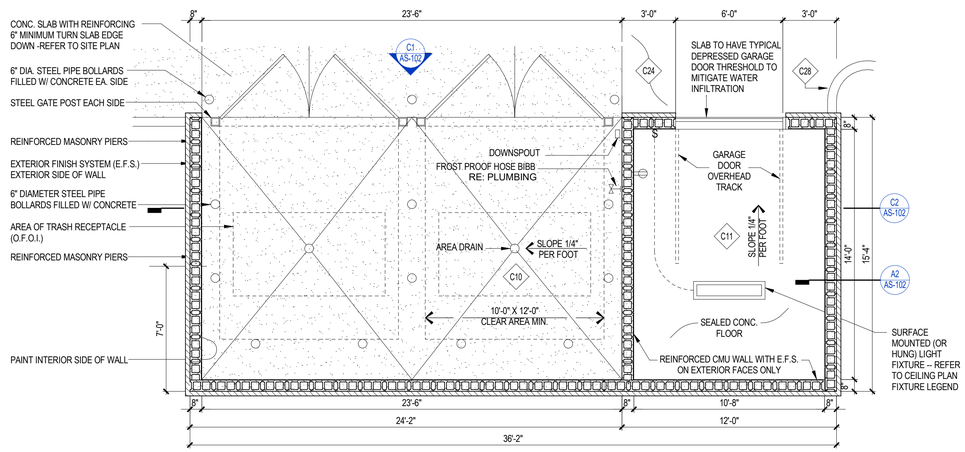
A3 TRASH GATE DETAIL
3/4" = 1'-0"

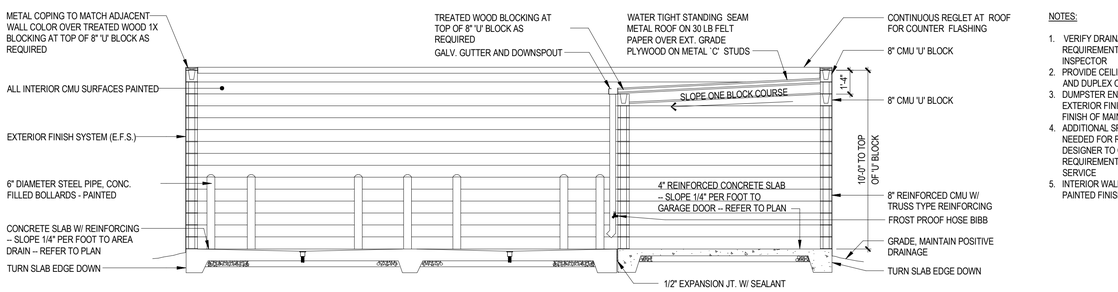


B2 TRASH GATE SECTION
3/4" = 1'-0"



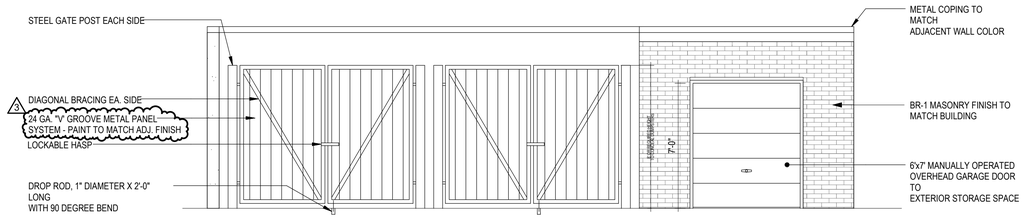
A2 SITE - ENCLOSURE - CMU - WALL SECTION
3/4" = 1'-0"





NOTES:
1. VERIFY DRAINAGE REQUIREMENTS WITH HEALTH INSPECTOR
2. PROVIDE CEILING MOUNTED LIGHT AND DUPLEX OUTLET IN STORAGE
3. DUMPSTER ENCLOSURE EXTERIOR FINISH TO MATCH FINISH OF MAIN HOTEL / TOWER
4. ADDITIONAL SPACE MAY BE NEEDED FOR RECYCLING. DESIGNER TO COORDINATE REQUIREMENTS WITH LOCAL SERVICE
5. INTERIOR WALLS AND CEILINGS PAINTED FINISH AT MINIMUM

C2 STORAGE & TRASH ENLOSURE SECTION
1/4" = 1'-0"



C1 STORAGE & TRASH ENLOSURE ELEVATION
1/4" = 1'-0"

A1 STORAGE & TRASH ENLOSURE PLAN
1/4" = 1'-0"

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REVISIONS:
3 06/27/2024 CHANGE TO TRASH ENCLOSURE GATE

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DAVID EUGENE HENDRIXSE
NUMBER A-7305
REGISTERED ARCHITECT
06/27/2024

HOME2 SUITES BY HILTON

LEE'S SUMMIT, MO

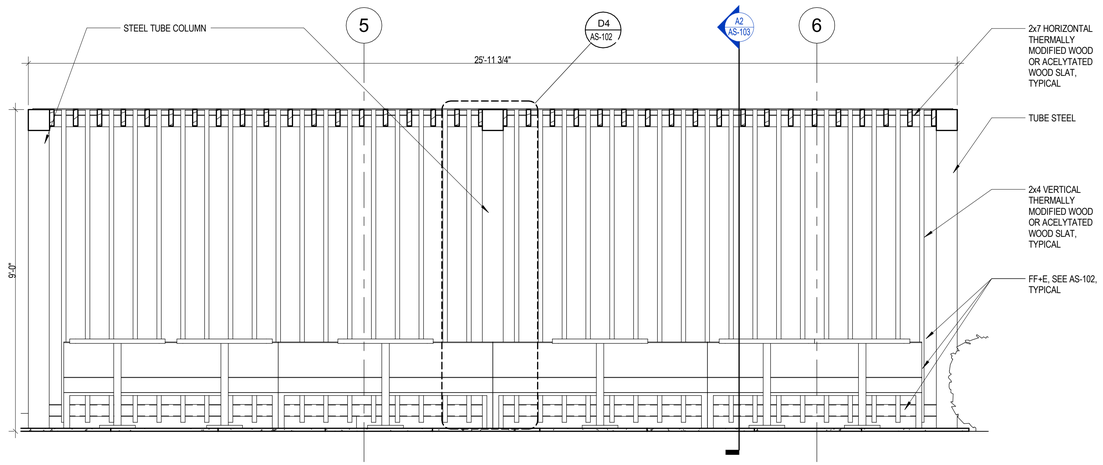
SHEET TITLE
ARCHITECTURAL SITE AMENITIES

PROJECT NUMBER: 22023

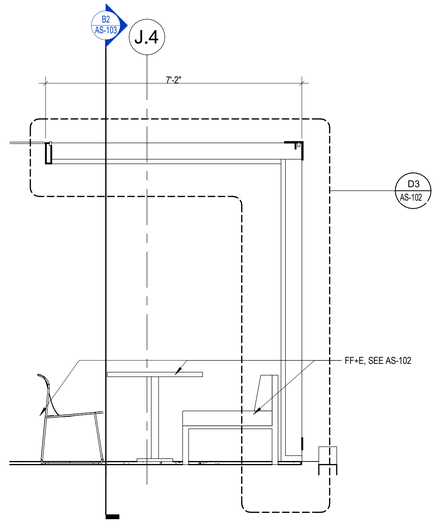
SHEET NUMBER:

AS-102

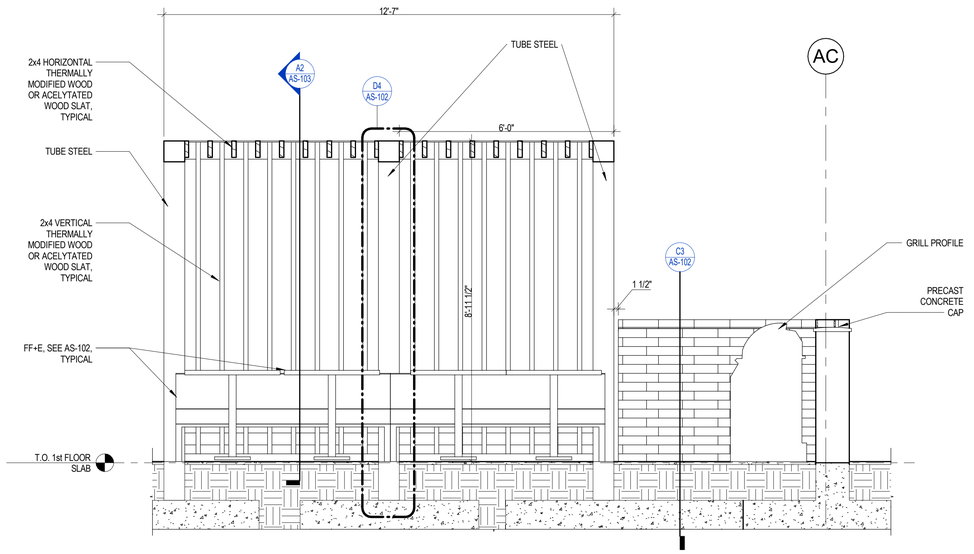
REFERENCE G-003 FOR GENERAL NOTES



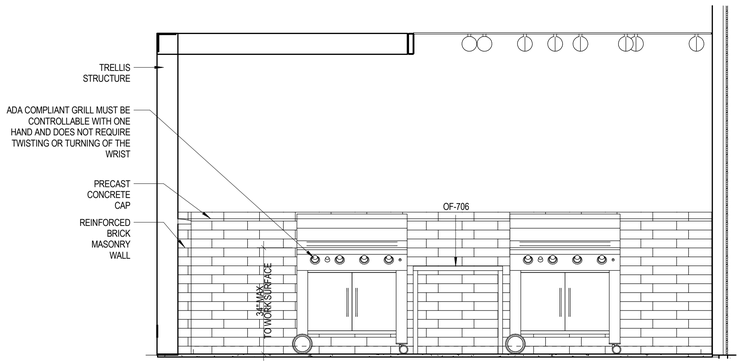
B2 FRONT TRELLIS SECTION
1/2" = 1'-0"



A2 TRELLIS SECTION
1/2" = 1'-0"



B1 GRILLING PATIO SECTION
1/2" = 1'-0"



A1 PATIO GRILLS ELEVATION
1/2" = 1'-0"

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NUMBER A-7305
REGISTERED ARCHITECT
04/17/2024

HOME2 SUITES BY HILTON

LEE'S SUMMIT, MO

SHEET TITLE
ARCHITECTURAL SITE AMENITIES

PROJECT NUMBER: 22023

SHEET NUMBER:

AS-103

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A. DESIGN CRITERIA

1. Design Codes:
   a. International Building Code: IBC 2018
   b. Minimum Design Loads for Buildings and Other Structures: ASCE 7-16
2. Design Loads:
   a. Dead Loads

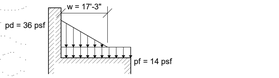
Floors	= 27 psf
Main Roof	= 20 psf plus mechanical equipment shown on roof plan
King Size Brick Veneer	= 36 psf max allowed
Large Format Masonry	= 70 psf max allowed
EIFS Finish System	= 10 psf max allowed
Walls Within Residential Units	= 15 psf (additive to floor load)

   b. Live Loads (reducible per code UNO)

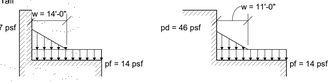
Public Rooms	= 100 psf (non-reducible)
Public Corridors	= 100 psf
Lightweight Storage	= 125 psf (non-reducible)
Private Rooms and Corridors Serving Them	= 40 psf
Stairs and Exitways	= 100 psf
Typical Roof	= 20 psf
Handrails	= 200 lb concentrated load at any location on handrail or top rail = 50 plf linear load on top rail

   c. Roof Snow Load

Ground Snow Load (p_g)	= 20 psf
Flat Roof Snow Load (p_f)	= 14 psf
Snow Exposure Factor (C_e)	= 1.0
Snow Load Importance Factor (I_s)	= 1.0
Thermal Factor (C_t)	= 1.0
Slope Factor (C_s)	= 1.0
Main Roof Typical Parapet Snow Drift Load (p_d)	= 36 psf
Main Roof Typical Parapet Snow Drift width (w)	= 17'-3"
Main Roof High Parapet Snow Drift Load (pd)	= 57 psf
Main Roof High Parapet Snow Drift Width (w)	= 14'-0"
Pool and Entry Canopy Roof Snow Drift Load (Low Roof) (p_d)	= 46 psf
Pool and Entry Canopy Roof Snow Drift width (Low Roof) (w)	= 11'-0"
Rain on Snow Surcharge	= 5 psf



MAIN ROOF SNOW DRIFT AT TYPICAL PARAPET LOAD DIAGRAM



MAIN ROOF SNOW DRIFT AT HIGH PARAPET LOAD DIAGRAM

LOW ROOF SNOW DRIFT LOAD DIAGRAM

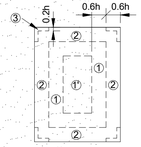
   d. Wind Load

Basic Design Wind Speed, V	= 109 mph (3 sec. Gust)
ASD Wind Speed, V_{asd}	= 85 mph
Risk Category	= II
Wind Exposure	= C
Internal pressure Coefficient (GC_{pi})	= ±0.18

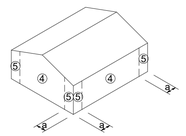
Components and Cladding (psf):

Zone	A=10ft²	A=50 ft²	A=100 ft²
1	+16/-52	+16/-44	+16/-41
1'	+16/-30	+16/-30	+16/-30
2	+30/-69	+27/-59	+26/-54
3	+30/-69	+27/-59	+26/-54
4	+30/-33	+27/-30	+26/-28
5	+30/-40	+27/-34	+26/-31

Notes:
1. A is the Effective Wind Area as defined in ASCE 7 Ch. 26.
2. Linear interpolation between tabulated values is permitted.
3. Elements with Tributary Area (A_t) > 700 ft² shall be permitted to be designed using provisions for MWFRS.



GABLE, SAWTOOTH AND MULTISPAN GABLE θ ≤ 7 DEGREES & MONOSLOPE ≤ 3 DEGREES h ≤ 60' & ALT DESIGN h < 90'



WALLS h ≤ 60' & ALT DESIGN h < 90'

   e. Earthquake Load

Risk Category	= II
Seismic Importance Factor (I_e)	= 1.0

Mapped Spectral Response Acceleration Parameters
S_S = 0.099g S_1 = 0.068g
Design Spectral Response Acceleration Parameters
S_{DS} = 0.086 S_{D1} = 0.068

Soil Site Class:	C
Seismic Design Category	B

Basic Seismic Force Resisting System(s)
Wood Walls with Wood Structural Panels (ASCE 7 Table 12.2-1 Line A.15)
R = 6.5 Ω_0 = 3.0 C_s = 0.013 C_D = 4.0
(Ω_0 reduced to 2.5 per ASCE 7-16 Table 12.2-1 footnote *b*)
Wood Walls with Panels of other Materials (Gypsum) (ASCE 7 Table 12.2-1 Line A.17)
R = 2.0 Ω_0 = 2.5 C_s = 0.043 C_D = 2.0
Ω_0 Reduced to 2.0 per ASCE 7-16 Table 12.2-1 Footnote b.

Design Base Shear, V= C_s x W	= 160 kips
Analysis Procedure	= Equivalent Lateral Force Procedure (ASCE 7-16 Chapter 12.8)

   f. Rain Load
100 Year 15 min. Rain Intensity (i) = 7.5 in/hr

3. Allowable Deflections:

	Total Load	Live/Snow/Wind Load	Absolute Maximum
Typical Floor Joists/Trusses	L/360	L/480	1"
Roof Joists/Trusses	L/240	L/360	1.5"
Wall Framing (flexible finish)		L/360	0.75"
Wall Framing (brittle/brick finish)		L/600	0.5"

Cantilever deflection limits are the more restrictive of 2 x the appropriate L/--- limit (e.g. 2L/360 = L/180) or absolute maximum value listed above, measured at the tip of the cantilever U.N.O.

4. Soil Properties:
   a. Soil properties are based on the project geotechnical report entitled Geotechnical Engineering Report Discovery Park Lot 2, prepared by Olsson on August 08, 2023 (herein known as "Geotechnical Report").
   b. Lateral Earth Pressure:

Cohesive Material, at Rest (Drained):	= 71 pcf
Cohesive Material, at Rest (Undrained):	= 97 pcf
Granular Material, at Rest (Drained):	= 56 pcf

   c. Allowable Soil Bearing Pressure = 2,500 psf

B. STRUCTURAL ENGINEERING DESIGN NARRATIVE

1. McClure Engineering Company (McClure, MEC) is the Structural Engineer of Record (EOR) responsible for the documentation of structural design criteria, strength and stability of the primary vertical and lateral load-carrying systems in their completed form, and conformance of the structural design to the applicable building codes. These drawings produced by McClure convey the structural engineering design for the project, which includes the following components and systems:
   a. Shallow concrete foundations.
   b. Slabs on grade.
   c. Building Framing:
      i. Load-bearing wood wall and opening framing.
      ii. Plywood sheathing on dimensional lumber wood floor and roof joists.
      iii. CMU stair and elevator towers
   d. Structural steel framing identified on the drawings.
   e. The lateral force resisting system of the structure consisting of sheathed wood structural walls, wood sheathing diaphragms.
2. The following items are Deferred Submittals. Framing intent and additional requirements for these structural components are provided within these drawings*:
   a. Structural steel connections – see general notes section "Structural Steel".
   b. Wood roof/floor trusses – see general notes section "Wood Framing and Fastening" / see S001 and S002 for applicable design criteria.
   c. All premanufactured canopy and awning framing including connections to the structure.
   d. Handrails – see S001 "Design Criteria" for applicable loading.

   * Reference section "D. Submittal Requirements." Coordinate requirements of these drawings with those of other design consultant drawings and the Project Specifications.
3. The following items are specifically excluded from McClure's design scope as represented on these drawings:
   a. Requirements for fire rating of assemblies or fire protection of structural members
   b. Global stability of soil mass
   c. Any exterior slabs, bollards, curbs, and any enclosures not shown on these drawings.
   d. Interior non-load-bearing walls or furring
   e. Shoring design, formwork design, temporary bracing, and other means and methods items
   f. Mechanical screen walls (screen walls shall be supported off of mechanical unit curbs)

C. GENERAL NOTES

1. All construction shall conform to the Design Codes in Section "A. Design Criteria," including all applicable standards and documents referenced within those codes.
2. Plan and detail notes provided on specific sheets within these drawings supplement information in these General Notes. Always coordinate the requirements of these notes with what is shown within the drawings.
3. Unless noted specifically on a plan, all plans show framing for the level indicated and walls, openings, posts, columns below that level.
4. Contract Document Coordination:
   a. The drawings contained herein are intended to be utilized in conjunction with other design consultant's drawings (architectural, civil, mechanical, etc.). It is the responsibility of the Contractor to coordinate the requirements of the drawings into their shop drawings and work.
      i. Refer to the Project Specifications issued as part of the contract documents for information supplemental to these drawings. Should conflicts between these drawings and the Specifications exist, the Contractor shall bring them to the attention of the structural engineer for clarification.
   b. Refer to the architectural, mechanical, electrical, and civil drawings for location and size of block outs, inserts, openings, curbs, bases & pads, and dimensions not shown on these drawings.
   c. Refer to the architectural drawings for size and location of doors and window openings, exterior wall assemblies, and floor, wall, and roof finishes. Refer to the mechanical and electrical drawings for additional information including locations of mechanical units, generators, etc.
   d. Omissions or conflicts between various elements of the drawings, notes and details shall be brought to the attention of the structural engineer and resolved before proceeding with the work.
5. Use of Drawings in Construction:
   a. The Contractor shall verify all dimensions and conditions at the job site before commencing work and shall report any discrepancies to the engineer responsible for the design of that work.
   b. Do not use scaled dimensions; use written dimensions or, where no dimension is provided, consult the structural engineer for clarification before proceeding with the work.
      i. Where member locations are not specifically dimensioned, members are either located on grid lines or are equally spaced between located members.
   c. Details and keynotes shown shall be incorporated into the project at all appropriate locations, whether specifically called out or not.
   d. McClure may provide the contractor with electronic files for their convenience and use in the preparation of shop drawings. These electronic files are not construction documents; the contractor is not relieved of his/her duty to fully comply with the contract documents, including the need to confirm and coordinate all dimensions and details, take field measurements, verify field conditions, and coordinate the contractor's work with that of other contractors for the project.
6. Changes During Construction:
   a. Openings shall not be cut or otherwise made in any structural member unless that opening is specifically shown on these drawings. The Contractor shall seek approval in writing from the structural engineer for any design incorporating additional openings.
   b. Support details shown for Architectural, Mechanical, Electrical, and Plumbing equipment as well as elevators is based upon available information from the manufacturer (if any). The Contractor shall coordinate requirements of actual equipment supplied with details and shall provide any additional framing required.
   c. The Contractor has the responsibility to notify the structural engineer of any architectural, mechanical, electrical, or plumbing load imposed on the structure that is not documented on the Contract Documents or differs from what is originally shown. Provide documentation of location, load, size, and anchorage of all undocumented loads in excess of 250 lbs.
7. Construction Sequence and Methods:
   a. These drawings and the related Specifications represent the finished structure and, except where specifically shown, do not indicate the method or means of construction. Loads on the structure during construction shall not exceed the design loads indicated in Section "A. Design Criteria" as a maximum. The Contractor shall supervise and direct the work and shall be solely responsible for all construction means, methods, procedures, techniques, and sequence.
   b. The Contractor is responsible for compliance with all applicable job-related safety standards proceeding from governing organizations (e.g. OSHA).
   c. It is the responsibility of the Contractor to ensure the stability of the structural elements during construction as a result of means and sequence by providing shoring, bracing, etc. as required.
      i. Stability considerations should include all applicable temporary construction and environmental loads per ASCE 37 which may include wind and seismic forces.
      ii. Temporary bracing shall remain in place until positive connection is made between the floor/roof diaphragm and the lateral force resisting elements. This is a means and methods item.
      iii. The Contractor may at their discretion employ a Specialty Structural Engineer, licensed in the state where the project is located, for the design of any temporary bracing, lifting, rigging, and shoring.
   d. The Contractor shall consider the effects of thermal movements due to hot or cold weather construction and the potential for extreme temperature variations before the structure is complete.
   e. Any foundation wall restrained by a floor is not designed to be backfilled prior to the complete construction of the floor and the lateral bracing elements (shear walls, braced frames, etc.) below it. For backfilling before this time, temporary bracing shall be designed and provided by the Contractor.
   f. The Contractor is responsible for the protection and repair of any adjacent existing structures, surfaces, and areas which may be damaged as a result of the work.

D. SUBMITTAL REQUIREMENTS

1. Submittal Procedures:
   a. The Contractor shall provide all submittals in PDF format unless otherwise requested or indicated in the Project Specifications.
   b. All submittals must be reviewed by the Contractor prior to McClure's review. The Contractor is responsible for reviewing each submittal for basic coordination with these drawings and to verify that all the required components of the submittal are incorporated. The submittal must bear the electronic review stamp of the Contractor before McClure will proceed with the review.
   c. Incomplete submittals or submittals not meeting the requirements of this section will not be reviewed. McClure will notify the contractor that the submittal is incomplete or unacceptable and that resubmission is required.
      i. Submittals requiring engineering calculations for all or a portion of the work are considered incomplete without the sealed calculations and will not be reviewed.
      ii. Shop Drawings shall be original drawings. Submissions incorporating any portion or reproduction of the contract documents will not be reviewed.
      iii. Deferred Submittals not meeting the seal requirements of section D.2.b are considered incomplete and will not be reviewed.
      iv. Resubmittals with comments from a previous review left unaddressed or without any response will not be reviewed.
   d. Allow two weeks for review of all submittals unless an agreement for expedited review is made in writing by McClure.
   e. McClure's submittal review scope of work includes a single submittal review and one review of the revised submittal if required (two reviews total of the same submittal). Time required for more than two reviews of a submittal is considered an additional service and will be billed hourly. McClure reserves the right to withhold review of a submittal surpassing this allowance until proper billing to the responsible party can be established.
   f. Submittals must be returned to the Contractor by McCure bearing a stamp marked "Reviewed No Exception Taken" or "Reviewed With Comments/Exceptions" prior to proceeding with the work. Submittals marked "Reject/Resubmit" must be revised according to the comments provided prior to commencing with the respective scope of work.
2. Deferred Submittals:
   a. See Section "B. Structural Engineering Design Narrative" for the list of items considered Deferred Submittals.
   b. Deferred Submittals shall bear the seal of a professional engineer licensed in the state where the project is located. If the project requires a licensed Structural Engineer (S.E.) as the Engineer of Record according to state laws, the same qualification level applies to the engineer sealing the Deferred Submittals.
   c. Deferred Submittal items shall not be installed until the Deferred Submittal documents have been approved by the Building Official.
3. Submittal List:
   a. Submittals (product data, test records, shop drawings, and/or calculations) are required for the following:

Submittal Name	Items Required:				
	Product Data	Shop Drawings	Test Records	Engineering Drawings	Engineering Calculations
1. Concrete Mix Designs	X		X		
2. Concrete Break Reports			X		
3. Concrete Reinforcing Layout		X			
4. Concrete Anchor Bolts & Embedded Plates	X	X			
5. Concrete & CMU Anchors (Post-Installed)	X				
6. Post-Installed Anchor Substitutions	X				X
7. Post-Installed Connection Geometry Alteration	X			X	X
8. Structural Steel Framing	X	X			
9. Structural Steel Framing Connections		X			X
10. Steel Floor Deck	X	X			
11. Metal Railings & Connections					
12. Metal Ladders & Connections					
13. Fall Arrest Systems					
14. Wood Framing Materials	X				
15. Wood Floor & Roof Trusses incl. Reactions				X	X
16. Wood Truss Connections to Supporting Structure				X	X
17. Specialty Wood Fasteners	X				
18. Manufactured Wood Shear Panels	X				
19. Masonry Wall Materials	X		X		
20. Masonry Reinforcing		X			

   b. "Product Data" may indicate mill certifications, material data sheets, Evaluation Service Reports (ESRs), etc. See requirements of each material section of the general notes for further information.
   c. Where "Engineering Drawings" and/or "Engineering Calculations" are indicated, the submittal must comply with the requirements of item "2. Deferred Submittals" above.
4. Submittals For Record:
   a. The following items impact the structural design and therefore must be submitted to the engineer; however, they do not require review. They will be returned stamped as "Received For Record".
      i. Elevator Shop Drawings with Loads to Structure.
      ii. Mechanical Equipment Shop Drawings with Weight.

E. CONCRETE

1. Reinforced concrete shall have the following minimum 28 day compressive strengths:
   a. Interior slabs on grade, unless noted otherwise 4000 psi normal weight
   b. Slabs on grade, Foundations and Grade Beams 5000 psi normal weight
2. All concrete exposed to weather shall have 6% (+- 1%) air entrainment.
3. Submit mix designs for all concrete mixes prior to placement. All submittals shall include the following:
   a. Batch quantities including admixture dosage rates.
   b. Strength test results for trial mixes.
   c. Aggregate source(s) and gradation(s).
   d. Product data for cement, fly ash and other cementitious materials.
   e. Product data for all admixtures.
4. Provide protection for reinforcing bars as follows:
   a. Cast-in-place concrete
      i. Concrete cast against and permanently exposed to earth: 3"
      ii. Concrete exposed to earth and weather (formed)
         1. #5 and smaller 1-1/2"
         2. #6 and larger 2"
      iii. Concrete not exposed to weather and not in contact with ground:
         1. Slabs and walls 3/4"
         2. Beams and columns 1-1/2"
5. Provide construction or control joints in slab on grade as shown on plans. If joint pattern is not shown, provide joints at 10'-0" x 10'-0" and at locations to conform to bay spacing wherever possible (at column centerlines, half bays, third bays, etc.).
6. Interface of all slab and beam construction joints shall be roughened with 1/4" amplitude. Surface of construction joints shall be clean and free of laitance. Immediately before new concrete is placed, construction joints shall be wetted and standing water removed.
7. Construction joints in walls shall be keyed and placed at locations approved by the Architect and Structural Engineer.
8. Provide control joints in all retaining walls at 15 ft to 20 ft intervals.
9. **Elevator pit walls shall not have control joints as they are part of the lateral system.**
10. Provide PVC waterstops in all below grade construction joints and at other locations as shown.
11. Provide compressible filler and sealant in all slab-on-grade and wall and column interfaces that are not doweled together.
12. All column pockets shall be filled with concrete after column is erected.
13. Sleeves and openings in slabs not shown on structural drawings or outside the parameters of typical sleeve details are not permitted, unless approved by the Structural Engineer.
14. Conduit and pipes embedded in slabs, walls, or grade beams shall be no larger in outside dimension than 1/3 the overall member thickness and shall be placed no closer than 3 diameters or widths on center.
15. Conduits and pipes shall not be permitted in concrete pilasters or columns.
16. See "G. Foundations" section 5 for requirements at slab on grade.
17. Bond break material for slip joints shall be 1/8" thick tempered wood particleboard, 1/8" thick high-density plastic elastomeric strips, two layers of 10mil polyethylene sheeting or equivalent.
18. Provide concrete housekeeping pads under all mechanical, plumbing, fire protection, and electrical equipment per plans. Pads shall extend beyond equipment a nominal 6" on all sides. Provide reinforcing per details.
19. At floor drains, locally slope floor towards drain. See architectural and plumbing drawings for drain locations.
20. Foundation walls shall be temporarily braced until positive attachment is made to floor framing per details. This is a means and methods item.

F. REINFORCING FOR CONCRETE

1. General
   a. All reinforcing steel to be ASTM A615, Grade 60, deformed bars, unless noted otherwise.
      i. Any reinforcing to be welded shall be ASTM A706 and welded with E80 electrodes.
      ii. Alternatively, ASTM A615 reinforcing may be welded with E90 electrodes and proper preheat according to AWS D1.4.
      iii. E70 electrodes are not permitted for welding rebar.
   b. Welded wire fabric shall be ASTM A185. Welded wire fabric shall be in flat sheets.
   c. All reinforcing bars to be detailed and placed in accordance with the ACI "Manual of Standard Practice for Detailing Reinforced Concrete Structures" specifications.
   d. All reinforcing, including dowels, shall be securely tied and cast with the lower member. Placing reinforcing after concrete has been placed will not be permitted.
   e. Field bending of reinforcing partially embedded in concrete will not be allowed unless specifically noted on the drawings or approved by the Structural Engineer.
   f. All reinforcing bars shall be contact lap spliced or doweled as follows, unless noted otherwise:

Tension Development and Splice Lengths for f'c = 5,000psi

	Development		Class "B" Splice		Standard 90 deg. Hook		
Bar Size	Top Bar	Other Bar	Top Bar	Other Bar	Embed	Leg Length	Bend Dia.
#3	17	13	22	17	6	6	2-1/4
#4	22	17	29	22	6	8	3
#5	28	22	36	28	8	10	3-3/4
#6	33	26	43	33	9	12	4-1/2
#7	49	37	63	49	11	14	5-1/4
#8	55	43	72	55	12	16	6
#9	63	48	81	63	14	19	9-1/2
#10	70	54	91	70	15	22	10-3/4
#11	78	60	101	78	17	24	12
#14	94	72	---	---	29	31	18-1/4
#18	125	96	---	---	39	41	24

Tension Development and Splice Lengths for f'c = 4,000psi

	Development		Class "B" Splice		Standard 90 deg. Hook		
Bar Size	Top Bar	Other Bar	Top Bar	Other Bar	Embed	Leg Length	Bend Dia.
#3	19	15	24	19	6	6	2-1/4
#4	25	19	32	25	7	8	3
#5	31	24	40	31	9	10	3-3/4
#6	37	29	48	37	10	12	4-1/2
#7	54	42	70	54	12	14	5-1/4
#8	62	48	80	62	14	16	6
#9	70	54	91	70	15	19	9-1/2
#10	79	61	102	79	17	22	10-3/4
#11	87	67	113	87	19	24	12
#14	105	81	---	---	32	31	18-1/4
#18	139	107	---	---	43	41	24

1. Straight development and Class "B" splice lengths shown in above tables are based on uncoated bars assuming center-to-center bar spacing ≥ 3^*d_b without ties or stirrups or ≥ 2^*d_b with ties or stirrups, and bar clear cover ≥ 1.0^*d_b. Normal weight concrete as well as no transverse reinforcing are both assumed.
2. Standard 90 deg. hook embedment lengths are based on bar side cover ≥ 2.5" and bar end cover ≥ 2" without ties around hook.
3. For special seismic considerations, refer to ACI 318 Code Chapter 21.
4. All tension splices shall be Class "B" splices unless noted otherwise on plans.

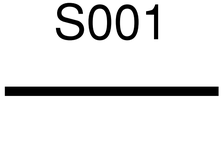
   g. All welded wire fabric shall be lapped 12" or 48 wire diameters, whichever is greater.
   h. Provide (2) #5 x 6'-0" diagonals at all corners of openings and re-entrant corners, unless noted otherwise.
   i. Dowels between foundation and walls shall be installed and shall be the same grade, size, and spacing as the vertical wall reinforcing, unless noted otherwise.
   j. Provide corner bars to match longitudinal reinforcing in all footings. Provide (2) corner bars at tee intersections.
   k. Provide 500 pounds of miscellaneous straight bar reinforcing (#4 & #5) to be used in field for special conditions. Labor for placing same to be included.
2. Slabs and Slabs-on-Grade
   a. All slabs on grade to be reinforced with 6x6 – W2.9xW2.9 welded wire fabric, unless noted otherwise.
3. Walls
   a. Provide corner bars in the outside face and at wall intersections to match horizontal wall bars. Use (3) #5 vertical construction rods at corners.
   b. Provide #4 at 12" O.C. each way in each face of walls, unless noted otherwise.

PRINTS ISSUED
04/17/2024 - CITY SUBMISSION

REVISIONS:
1 05/17/2024 CITY RESPONSE

McCLURE™
2001 W Broadway
Columbia, MO 65203
P 573-814-1568

MISSOURI CERTIFICATE OF AUTHORITY
NO. E-2006023253
EXPIRES: DECEMBER 31, 2024



05/17/2024

HOME2 SUITES BY HILTON
251 NE ALURA WAY
LEE'S SUMMIT, MISSOURI 64064

SHEET TITLE
GENERAL NOTES

PROJECT NUMBER: 2023000333

SHEET NUMBER:
S001

5/16/2024 4:32:41 PM
Autodesk Docs://2023000333 - Discovery Park Lot 2 Summit/2023000333 - Rosemann - Home2_R23.rvt

G. FOUNDATIONS

1. Foundation design is based on Geotechnical Report prepared by Olsson, dated Aug. 8, 2023. See documents for additional information. The geotechnical report shall be considered part of the construction documents.
2. A geotechnical representative shall be retained on site for all construction activity to verify that all proper requirements have been met to meet the design requirements outlined in the geotechnical report. Representative shall be Olsson Engineers or someone familiar with all documents of the geotechnical investigation provided for the project.
3. The Contractor shall provide dewatering of excavations from surface water and ground water. Do not place concrete if water is present at base of excavation.
4. Footings
   a. All footings shall bear on suitable subgrade prepared in accordance with the geotechnical report. The underlying soils and the structural fill shall have a minimum safe load bearing capacity of 2,500 psf.
   b. Remove all existing topsoil, pavement, organic materials, and other soil that appears to be unsuitable prior to preparing the footing subgrade.
   c. If any adverse soil conditions are encountered which extend below footing level such as those listed above, the general contractor shall contact the geotechnical engineer immediately for determination of how to remedy the condition before continuation of work.
   d. No footings shall be placed in water or on frozen ground. All exterior construction shall be carried down to minimum 3'-0" below finished adjacent exterior grade.
5. Slab on Grade
   a. Slabs shall be constructed as shown on the plans.
   b. A 10mil minimum vapor retarder shall be installed under all slabs on grade in occupied or conditioned spaces per the drawings. See the geotechnical report for additional information regarding the installation of the vapor retarder.
   c. Provide joints at 30 x slab thickness (+/-) in both directions and located to conform to bay spacing wherever possible (at column centerlines, half bays, third bays, etc.). Submit control joint layout for approval by the Structural Engineer.
   d. Saw cut control joints shall be done late enough to prevent raveling of the cut edges and early enough to prevent racking of the slab ahead of the saw blade.
   e. Plumbing and utilities passing through the slab on grade shall be constructed with flexible fittings to allow for slab movement. The expected slab movement for the parking slab shall be considered up to 2" minimum for fittings.
   f. Concrete slab to be cured according to ACI Standards. Concrete slab cure to be compatible with any sealer, grout, or adhesive that may be used in the floor later.
   g. Locally slope floor towards any floor drains. See architectural and plumbing drawings for drain locations.
6. Geotechnical Testing Agency Requirements
   a. If the geotechnical representative on site takes exception to anything in the Geotechnical Report and requires additional field investigation to clarify those exceptions, the cost of such investigation shall be included in the additional fee for field quality control and testing and identified as such. All other exceptions shall be documented and approved by the geotechnical engineer.
   b. The geotechnical representative must have read all documents pertaining to the geotechnical report for the project and have understood and accepted the criteria contained in the report.
   c. The geotechnical representative must understand and be able to make decisions affecting the work for field observations and conditions described in the report during construction. The representative must be capable of advising the owner or contractor for procedures regarding, but not limited to sub-grade preparation, dewatering activities, and other construction considerations.
7. See notes on sheets and details for additional information.

H. POST-INSTALLED ANCHORS TO CONCRETE AND MASONRY

1. Post installed anchors shall be expansion, adhesive, or screw anchors as indicated in the details, unless noted otherwise. Only use the anchor type indicated. All anchors on the project of each type must be by the same manufacturer, see below for substitution requirements.
   a. Expansion anchors:
      i. Concrete:
         Hilti Kwik Bolt TZ (ICC-ES ESR1917).
         Simpson Strong-Bolt 2 (ICC-ES ESR3037).
         DeWalt Power-Stud+ SD2 (ICC-ES ESR2502).
      ii. Grout-filled Concrete Masonry:
         Hilti Kwik Bolt 3 (ICC-ES ESR1385).
         Simpson Strong-Bolt 2 (UES ER0240)
         DeWalt Power-Stud+ SD1 (ICC-ES ESR2966).
   b. Adhesive anchors (threaded rods shall be ASTM A193 B7 for all anchors):
      i. Concrete:
         Hilti HIT RE 500-SD (ICC-ES ESR2322) or Hilti HIT-HY 200 (ICC-ES ESR3187).
         Simpson AT-XP (UES ER263), SET-XP (ICC-ES ESR2508) or ET-HP (ICC-ES ESR3372)
         DeWalt Pure 110+ (ICC-ES ESR3298), PE1000+ (ICC-ES ESR2583), Pure 50+ (ICC-ES ESR3576), AC 200+ (ICC-ES ESR4027), or AC100+ Gold (ICC-ES ESR2582)
      ii. Solid grouted concrete masonry:
         Hilti HIT-HY 70 anchor adhesive (ICC-ES ESR3342).
         Simpson AT-XP (UES ER0281), SET-XP (UES ER0265) or ET-HP (UES ER0241)
         DeWalt AC100+ Gold (ICC-ES ESR3200)
      iii. Hollow concrete or multi-wythe clay masonry:
         Hilti HIT-HY 70 with screen tubes (ICC-ES ESR3342).
         Simpson SET-XP (UES ER0265)
         DeWalt AC100+ Gold with screen tubes (ICC-ES ESR3200)
   c. Screw anchors:
      i. Concrete:
         Hilti Kwik HUS EZ (ICC-ES ESR3027)
         Simpson Titen HD (ICC-ES ESR2713)
         DeWalt Screw-Bolt+ (ICC-ES ESR2526)
      ii. Grout-filled concrete masonry:
         Hilti Kwik HUS EZ (ICC-ES ESR3056)
         Simpson Titen HD (ICC-ES ESR1056)
         DeWalt Screw-Bolt+ (ICC-ES ESR1678)
2. Post-installed anchors shall only be used where specified in the drawings. The Contractor shall obtain approval from the engineer prior to using post-installed anchors for missing or misplaced cast-in-place anchors.
3. All personnel installing anchors shall be trained and certified by the anchoring system manufacturer or by ACI. Contractor shall submit current certifications for all personnel. ACI certification required for all personnel installing adhesive anchors in a horizontal or overhead conditions. If a failure occurs at any time during testing or construction, personnel shall be retrained and recertified.
4. Installation:
   a. Do not cut existing reinforcing.
   b. The hole through the supported steel member shall be 1/16" larger in diameter (1/8" for screw anchors) than the anchor unless noted otherwise. Use plate washers with a standard size hole welded to steel members where oversized holes must be used.
   c. Holes shall be drilled per the manufacturer's written instructions as outlined in the ESR.
   d. Where applicable, installation shall follow cleaning procedure indicated in the ESR. Holes shall be made with a hammer drill. Use of a core drill is not allowed.
5. Special inspection shall be provided for all post installed anchors as required by the building code and/or ICC-ES report. Written special inspection reports shall be submitted to the registered design professional in responsible charge by the special inspector. The reports shall record and report the following as a minimum:
   a. One of every ten anchors installed by each technician in locations listed below shall be randomly tested in direct tension. At least one anchor shall be tested on each day that anchors are installed.
      i. Test anchors in the following locations:
         Shear wall hold down anchors.
         Shear wall sill plate anchors.
         Anchors supporting dead or live loads in tension.
      ii. Test anchor to twice the allowable tension load as provided in the ESR. Test load shall not exceed 80 percent of the yield strength of the anchor ($0.8 \times \phi_{Ns} \times f_{ya}$).
      iii. Post-installed anchors shall not be tested using a torque wrench.
      iv. If any anchor fails quality control testing, all anchors of the same type shall be randomly tested until (10) consecutive anchors pass. Resume normal frequency after this with approval of the engineer. The failed anchor(s) shall be removed and the affected area patched per engineer's direction. Consult the engineer for anchor replacement instructions. The cost for additional work and testing required due to anchor failure is the responsibility of the installing contractor.
   b. Prior to and during installation of anchors, inspection and report shall include:
      i. Installer shall have reviewed manufacturer's ESR report and written installation procedures and has been certified by the manufacturer or ACI.
      ii. General concrete or CMU block conditions (cracked or un-cracked, wet or dry, grouted or hollow, etc).
      iii. Whether manufacture's written procedures for preparation of hole were followed. Indicate if hole is wet or dry.
      iv. Whether hole was made with a hammer drill
      v. Whether manufacture's written procedures for anchor installation were followed.
      vi. Embedment depth and concrete or block thickness.
      vii. Anchor diameter, length and type.
   c. After installing anchors, inspection and report shall include:
      i. All test locations.
      ii. Anchor size and/or type.
      iii. Applied load, loading procedure, load increments and rate of loading.
      iv. Mode of failure.
      v. Photographs of test equipment and typical failures.
6. Substitution requests for products other than those listed above shall be submitted to the engineer with calculations that are prepared and sealed by a registered structural engineer at least two weeks prior to scheduled installations. Calculations shall demonstrate that the substituted product will achieve an equivalent capacity using the appropriate design procedure required by the building code. Product ICC-ES code reports shall be included with the submittal package.

I. STRUCTURAL STEEL

1. Materials:
   a. Materials shall conform to the following, unless noted otherwise.

i.	Rolled WF shapes	ASTM A992, Fy = 50ksi
ii.	Plates and angles	ASTM A572-50
iii.	Channels	ASTM A36
iv.	HSS: Rectangular	ASTM A500, Grade C
v.	HSS: Round	ASTM A500, Grade C
vi.	Bolts	ASTM F3125
	1.	All bolts shall be Grade A325 or F1852, UNO
	2.	Bolts designed as "A490" shall be Grade A490 or F2280
vii.	Nuts	ASTM A563 DH or A194
viii.	Washers	ASTM F436
ix.	Anchor Bolts	ASTM F1554 Grade 36, UNO
x.	Threaded Rod	ASTM A36
xi.	Studs	ASTM A108, Type B Nelson headed shear stud connectors or equal.
xii.	Electrodes	Matching weld metal, 70 ksi minimum strength.

   b. Finishes
      i. Prepare all surfaces that will be exposed in accordance with SSPC SP3.
      ii. All exterior steel components exposed to view or weather shall be galvanized in accordance with ASTM A123.
      iii. All exterior welded connections shall be cold galvanized in accordance with ASTM A780.
2. Fabrication:
   a. Steel fabricator shall be AISC Certified.
   b. Structural members shall be detailed, fabricated, and erected in accordance with the latest edition AISC Code of Standard Practice.
   c. Structural steel fabrication and erection drawings must be submitted to the engineer for review and approval prior to fabrication.
   d. Fabricator shall engage a professional engineer registered in the state of the project for the design and detailing of:
      i. Steel connections.
      ii. Temporary bracing.
3. Connections:
   a. The contractor has the option to use bolted or welded connections. Any connections not specifically detailed on the drawings shall be designed by a professional structural engineer licensed in the project state and retained by the fabricator. In general, any connections shown on the drawings are schematic and are intended to show only the relative relationship of the connected members.
   b. Structural design calculations for all beam and bracing connections shall be submitted to the engineer prior to fabrication and should include the following (as a minimum):
      i. All plate dimensions and grades (minimum plate thickness shall be 3/8").
      ii. All weld sizes, lengths, pitches and returns.
      iii. Number and type of bolts.
   c. Connection design forces:
      i. Beam shear connections shall be designed for the actual reactions indicated on the drawings. Connection forces shown on drawings are envelope reactions based on ASD load combinations.
      ii. Connections indicated on the drawings as moment-resisting shall be designed for the moment shown. If moment is not indicated on the drawings, connection shall be designed to develop the full capacity of the member.
      iii. Columns have not been checked for local effects at connections. Fabricator shall verify if stiffener or web doubler plates are required and provide as necessary. Column size may also be increased with approval of the Structural Engineer.
      iv. Connection loads indicated on the drawings include compensation for Code permitted stress increases and load reductions for connection design.
   d. Bolted Connections:
      i. Minimum bolt diameter shall be 3/4".
      ii. Slip critical connections shall be used for bracing members, moment-resisting connections, cantilevers, and as indicated on the drawings. Standard oversized and long-slotted holes are permitted for friction-type connections.
      iii. All non-slip-critical connections shall be typical bearing type. Oversized or slotted holes are not permitted unless indicated on the drawings.
      iv. The fabricator is responsible for verifying the tensile capacity of axially loaded members with the presence of bolt holes. Increase member size; add plates (etc) as required.
   e. Welded Connections:
      i. All fillet welds shall be sized according to AISC minimums, but never less than 3/16" (UNO).
      ii. All welds shall be performed in accordance with the latest edition of the AWS Structural Welding Code.
4. Erection:
   a. All structural steel to be fabricated and erected in accordance with latest AISC specifications.
      i. It is the responsibility of the contractor to ensure that structure is maintained in a safe, stable configuration at all times.
      ii. Any shoring required shall be submitted with engineering calculations for approval.
   b. Splicing of steel members not specifically shown on the drawings is prohibited without prior approval from the engineer.
   c. All beams shall be installed with the mill camber up.
5. Steel Lintels:
   a. Loose lintels for king brick at all openings shall be the following, one angle per 4" wythe of masonry:

i.	L	3-1/2	x	3-1/2	x	5/16	for spans less than	5'-9"
ii.	L	5	x	3-1/2	x	5/16	for spans between	5'-9" and 7'-11"
iii.	L	6	x	3-1/2	x	5/16	for spans between	8'-0" and 9'-7"
iv.	L	7	x	4	x	3/8	for spans between	9'-8" and 11'-10"

   b. King brick lintel sizes are based on 36 psf brick weight with 8'-0" max height of brick above the lintel.
   c. Loose lintels for large format masonry at all openings shall be the following:

i.	L	6	x	6	x	3/8	for spans less than	6'-6"
ii.	L	8	x	6	x	1/2	for spans between	6'-6" and 9'-3"

   d. Large format masonry sizes are based on 70 psf masonry weight with 10'-0" max height of masonry above lintel.
   e. Lintels shall bear 8" minimum each end.
   f. Lintels shall be galvanized.
   g. All double angle lintels back-to-back shall be bolted at 32" O.C. maximum spacing, with 5/8" diameter A307 bolts, a minimum of two bolts per span.
   h. See architectural and mechanical drawings for opening sizes and locations.

MINIMUM DESIGN REACTION SCHEDULE
(FOR BEAM REACTIONS NOT SHOWN ON PLANS OR DETAILS)

Beam	Min. No. of Bolts	Shear Tab to Column	Double Angle to Beam
W8	2	12.4 Kips	12.4 Kips
W10	2	13.8 Kips	13.8 Kips
W12	3	23.0 Kips	23.0 Kips
W14	3	26.4 Kips	26.4 Kips
W16	4	39.0 Kips	39.0 Kips
W18	5	53.0 Kips	59.1 Kips
W21	6	63.6 Kips	83.6 Kips
W24	7	74.2 Kips	110.6 Kips
W27	7	74.2 Kips	128.6 Kips
W30	8	84.8 Kips	151.3 Kips
W33	9	95.4 Kips	185.0 Kips
W36	10	103.0 Kips	205.0 Kips

Note: Unless reactions are noted on plan, beam connections shall be designed for these reactions & provided with these minimum bolt quantities. Fabricator shall provide shop drawings indicating the provided capacity of all typical connections.
Table assumptions:
- Least web thickness for beam depth series
- 3/8" 36 ksi single shear plate or 5/16" 36 ksi double angles
- 3/4" dia. A325 bolts with threads included
- Standard size bolt holes
- Beam coped top & bottom
- Distance from end of beam to center of bolt holes = 1 1/2" minimum
- Distance from top of coped web to center of first bolt hole = 1 1/4" min.

J. WOOD FRAMING AND CONNECTIONS

1. Install rough carpentry according to the American Institute of Timber Construction Manual. It is the responsibility of the contractor to verify all dimensions prior to erection.
2. Material:
   a. Sawn lumber
      i. Sawn lumber shall be grade stamped and visually graded with maximum 19% moisture content.
      ii. All members shall meet strength requirements in NDS "National Design Specification for Wood Construction".
      iii. Joists, rafters, and nailers with nominal depth 8" or less shall be Southern Pine (SP) or Douglas Fir-Larch (DFL), No. 2 or better, UNO.
      iv. Joists, rafters, and nailers with nominal depth greater than 8" shall be Southern Pine (SP) or Douglas Fir-Larch (DFL), No. 1 or better, UNO.
      v. All members used as columns or beams (including headers) shall be coid of any significant defects (ie. Checking, warping, etc.) at the time of erection.
      vi. All exterior posts shall be Western Red Cedar No. 2 or better.
      vii. Bearing and shear wall studs, and wall plates, shall be Douglas Fir-Larch (DFL), No. 2 or better.
   b. Structural Composite Lumber
      i. SCL shall meet material specifications in ASTM D5456
      ii. SCL shall include laminated veneer lumber (LVL), laminated strand lumber (LSL), oriented strand lumber (OSL) and parallel strand lumber (PSL)
      iii. All SCL materials shall be graded as indicated on the plans.
   c. Glued-laminated timber (GluLam) shall be manufactured and identified as required in ANSI/AITC A-190.1 and ASTM D3737.
      i. GluLam shall be graded as indicated on the plans.
   d. Structural Panels
      i. All plywood or oriented strand board (OSB) panels shall meet the strength requirements in Department of Commerce (DOC) PS 1 and PS 2 or ANSI/APA PRP 210.
      ii. All structural panels (walls, floor and roof) shall meet the Structural 1 grading standard.
   e. Connectors and Fasteners
      i. Metal connectors and associated fasteners used for the applications indicated shall meet the following minimum standards:
         1. Untreated Lumber
            a. Connectors ..... ASTM A653 G90
            b. Bolts and Anchor Rods ..... ASTM F1554 Gr36
            c. Nails and Staples ..... ASTM F1667
         2. Sodium Borate (SBX) Pressure Treated Lumber
            a. Connectors ..... ASTM A653 G90
            b. Bolts ..... ASTM A307
            c. Anchor Rods ..... ASTM F1554 Gr 55
            d. Nails and Staples ..... ASTM F1667 with A153 Hot Dipped Galvanized
         3. All Other Pressure Treated Lumber (e.g. ACQ-C, ACQ-D, CA-B, CBA-A, ACZA)
            a. Connectors ..... AISI SS Type 304 or 316
            b. Bolts ..... ASTM A193, GrB7
            c. Anchor Rods ..... ASTM A193, GrB7
            d. Nails and Staples ..... ASTM F1667 using AISI Type 304 or 316 Stainless Steel
      ii. Fasteners utilizing dissimilar materials are prohibited.
      iii. Power driven fasteners shall comply with NES NER-272.
      iv. Fastener installation whether power driven or otherwise shall be in accordance with the Building Code and the manufacturer's recommendations. In general fastener heads shall be installed nominally flush with the outer ply of the connection. Sheathing and support framing damaged by overdriven fasteners shall be removed and replaced.
      v. Aluminum fasteners and flashing shall not be in contact with pressure treated lumber.
3. General:
   a. All light framed wood construction shall be fastened as indicated on the plans. Connections not detailed shall be fastened in accordance with the table below.
   b. Sill plates shall be anchored to the foundation as shown on the drawings.
   c. Plywood/OSBS wall, floor or roof sheathing shall be fastened per the requirements shown on the drawings.
   d. Splicing of structural members is not permitted under any circumstances.
   e. All framing in direct contact with water, soil, concrete, masonry, or permanently exposed to weather shall be preservative treated lumber in accordance with the AWPA Standard U1 and M4
   f. All framing indicated to be fire-retardant treated or fire resistive on the drawings (Architectural or Structural) shall comply with AWPA U1 UCFA, Type A or ICC-ES ESR 2645 and shall have UL FR-S surface burning characteristics.
   g. All wood shall be stored on site and protected from the elements to prevent warping, cupping, bowing, crocking and twisting. Use only material that is straight. All stored wood shall be held off the ground with sacrificial dunnage blocks.
   h. Wood connectors shall be installed to prevent wood from splitting or otherwise damaging either member.
   i. All wood denoted as requiring fire-resistive treatment shall be pressure treated according to AWPA Standard requirements.
   j. Use 4x4, 4x6 and 6x6 columns as shown on plans. Built-up sections of 2x studs shall not be substituted for timber posts.
   k. All multi-ply beams, joists and headers shall be fastened together.
      i. Fasten sawn lumber members per schedule below.
      ii. Fasten structural composite lumber per manufacturer's literature.
   l. Standard cut washers shall be used under bolt heads and nuts bearing against wood, unless noted otherwise per shear wall anchorage details.
   m. Wall studs are designed based on being fully braced by sheathing. Design of temporary or permanent blocking or bridging for support of construction loads by unsheathed walls is the responsibility of the contractor.
   n. Wood joists shall bear on the full width of supporting members (stud walls, beams, nailers, etc.) unless noted otherwise.
   o. Subject to compliance with the project requirements, wood connectors, joist hangers, post caps and bases, holdowns, and related hardware shall be manufactured by Simpson Strong-Tie Company, Inc. or approved equal.
      i. Contractor shall follow the manufacturer's latest recommendations for installation of connectors.
      ii. Other manufacturers may be acceptable. Submit substitution request demonstrating that the proposed hardware has the same or greater capacity for each connection. Allow two weeks for review.
   p. All beams and joists not bearing on supporting members shall be framed with Simpson joist hangers. Use joist hangers per schedule and details. The joist hangers shall be installed using nails or screws supplied by the hanger manufacturer as required for the hanger type.
   q. Sill plates of all bearing walls on concrete shall be anchored with anchors as shown on the drawings. Sill plate anchors shall be located a maximum of 1'-0" from corners, ends of walls and sill plate splices. Provide (2) anchors minimum in each sill plate segment Refer to plans and details for shear wall anchorage requirements.
   r. Nailers shall be anchored to steel beams and columns with 1/2" diameter A307 bolts with required washers at a maximum spacing of 24" on center (alternate sides), unless noted otherwise.
   s. Wall studs, jamb studs, and beam support studs shall have adequate vertical blocking installed to transfer all vertical loads to the foundation.
4. Wood Floor and Roof Trusses:
   a. Provide wood trusses capable of withstanding the design loads within the limits and under the conditions indicated. Truss design shall be in accordance with the Building Code and TPI-1 Nation Design Standard for Metal Plate Connected Wood Truss Construction.
   b. Metal gusset plates shall be designed, manufactured, and approved according to IBCO requirements.
   c. Wood trusses shall be of sawn lumber with 2x nominal thickness.
   d. In addition to the loads indicated in section "A. Design Criteria", wood trusses shall be designed for all applicable wind, seismic, and snow (including drift) loads required by Building Code and noted on plans.
   e. Truss design and shop drawing preparation shall be supervised by a registered professional engineer licensed in the state where the project is located. Submittals shall be signed and sealed and include comprehensive truss layout plans and design calculations that indicate species and grades of lumber, design stresses, size and type of connector plates used.
   f. Fabricator shall determine truss diagonal locations. Truss configurations shown on drawings are diagrammatic only. Bearing points shall coincide with intersections of diagonals and chords. All dimensions shall be determined by the truss manufacturer. The manufacturer and contractor shall coordinate all architectural and MEP components with the truss layout and profile.
   g. The manufacturer shall provide all open web trusses and accessories as shown on the structural and architectural drawings and as required for a complete project. This includes all blocking, bridging, bracing, and drag components required for construction.
   h. All truss-to-truss connections and truss to supporting member connections shall be designed and detailed by the truss supplier and the size and type of connectors included in the sealed shop drawing submittal. Coordinate size, species, and grade of supporting chord and web members with the truss hanger selected.
   i. All temporary and permanent bracing shall be in accordance with the TPI standards for bracing. The bracing shall be furnished and installed by the Contractor. Do not use ceilings as uplift bracing at truss bottom chord.
   j. Girder trusses shown on drawings shall be designed to carry concentrated reactions from supported members. Girder trusses shall not be located directly above openings unless coordinated with the Structural Engineer.
   k. Wood trusses shall be handled and erected in accordance with TPI HIB-91. Trusses shall be unloaded and stored in bundles in an upright position out of contact with the ground until ready for installation.
   l. Any damage to the trusses shall be brought to the immediate attention of the Structural Engineer and truss supplier. Field repair and modification of trusses shall not be made with prior written approval from the supplier, except for nominal trimming to correct length where such trimming will not impair the load carrying capacity of the truss
5. Roof trusses shall be designed for the following in addition to any mechanical unit loads shown on plan and mechanical drawings;
   TC DL = 10 psf TC LL = 20 psf TC SL = 20 psf C&C TC WL = +27/-59 psf MWFRS TC WL = ±28 psf
   BC DL = 10 psf BC LL = N/A C&C BC WL = ±5 psf MWCRS BC WL = ±5 psf
   End/Parapet C&C WL = +90/-61 psf
   Unbalanced Snow Load:
   Balanced TC SL = 14psf Drifts per "A. Design Criteria"
1
6. Floor trusses shall be designed for the following loads:
   TC DL = 17 psf typical + additional 15 psf at residential units to account for interior non-structural walls
   TC LL = 40/100/125 psf
   BC DL = 10 psf BC LL = ±5 psf
   (Coordinate LL with Architectural plans and general note section "A. Design Criteria")
7. The allowable deflection is:
   a. Roof Trusses
      i. Total Load: L/240
      ii. Roof Live or Snow Load: L/360
      iii. Absolute Maximum: 1.5"
   b. Floor Trusses
      i. Total Load: L/360
      ii. Live Load: L/480
      iii. Absolute Maximum: 1"

PRINTS ISSUED
04/17/2024 - CITY SUBMISSION

REVISIONS:
1 05/17/2024 CITY RESPONSE

McCLURE™
2001 W Broadway
Columbia, MO 65203
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MISSOURI CERTIFICATE OF AUTHORITY
NO. E-2006023253
EXPIRES: DECEMBER 31, 2024

STATE OF MISSOURI
CELESTE KAY SPICKERT
NUMBER PE-2008022213
PROFESSIONAL ENGINEER
05/17/2024

HOME2 SUITES BY HILTON
251 NE ALURA WAY
LEE'S SUMMIT, MISSOURI 64064

SHEET TITLE
GENERAL NOTES

PROJECT NUMBER: 2023000333

SHEET NUMBER:
S002

SCHEDULE OF MINIMUM NAILING FOR STANDARD CONNECTIONS (1)

CONNECTION (2) (3) IN INCHES	NUMBER - OR SPACING - OF FASTENERS REQUIRED PER CONNECTION										
	NAIL LENGTHS ARE MINIMUM, NOMINAL LENGTHS, IN INCHES. NAIL SHANK DIAMETERS ARE MINIMUM NOMINAL DIAMETERS										
	3-1/2X0.162	3X0.148	3-1/4X0.131	3X0.131	2-1/2X0.131	3-1/4X0.120	3X0.120	2-3/8X0.113	2X0.113	2-1/4X0.105	2-1/4X0.099
EQUIVALENT COMMON NAIL	16d	10d			8d				6d		
FLOOR FRAMING											
JOIST TO BAND JOISTS	3	5	5	5	N/A	6	6	N/A	N/A	N/A	N/A
LEDGER STRIP	3	4	4	4	6	4	4	N/A	N/A	N/A	N/A
JOIST TO SILL OR GIRDER	3	3	3	3	3	4	4	N/A	N/A	N/A	N/A
BLOCKING BETWEEN JOIST OR RAFTER TO TOP PLATE	3	3	3	4	3	4	4	N/A	N/A	N/A	N/A
BRIDGING TO JOIST	N/A	N/A	N/A	N/A	2	3	3	3	4	3	4
RIM JOIST TO TOP PLATE	8" O.C.	6" O.C.	6" O.C.	6" O.C.	6" O.C.	6" O.C.	4" O.C.	6" O.C.	3 O.C.	3" O.C.	3" O.C.
BUILT-UP GIRDERS & BEAMS											
SPACING ALONG EDGES	24" O.C.	24" O.C.	24" O.C.	24" O.C.	16" O.C.	16" O.C.	16" O.C.	N/A	N/A	N/A	N/A
# AT ENDS & SPLICES	3	3	3	3	4	3	3	N/A	N/A	N/A	N/A
CEILING & ROOF FRAMING											
CEILING JOISTS TO PLATE	3	4	5	5	5	5	5	6	N/A	N/A	N/A
CEILING JOISTS, LAPS OVER PARTITIONS	3	4	4	4	6	4	4	N/A	N/A	N/A	N/A
CEILING JOISTS TO PARALLEL RAFTER	3	4	4	4	6	4	4	N/A	N/A	N/A	N/A
COLLAR TIE TO RAFTER	3	3	4	4	5	4	4	N/A	N/A	N/A	N/A
JACK FRAFTER TO HIP (TOE-NAILED)	3	3	4	4	5	4	4	N/A	N/A	N/A	N/A
JACK RAFTER TO HIP (FACE-NAILED)	2	3	3	3	3	4	4	N/A	N/A	N/A	N/A
ROOF RAFTER TO PLATE	3	3	3	3	3	4	4	5	5	5	5
ROOF RAFTER TO 2X RIDGE BEAM (DRIVEN THRU BEAM INTO END OF RIDGE)	2	3	3	3	---	4	4	N/A	N/A	N/A	N/A
ROOF RAFTER TO 2X RIDGE BEAM (TOE-NAIL RAFTER TO BEAM)	2	3	3	3	3	4	4	N/A	N/A	N/A	N/A
WALL FRAMING											
TOP OR SOLE PLATE TO STUD (END-NAILED)	2	3	3	3	5	4	4	N/A	N/A	N/A	N/A
STUD TO TOP OR SOLE PLATE (TOE-NAILED)	2	3	3	3	5	4	4	5	5	5	5
CAP/TOP PLATE LAPS & INTERSECTIONS (EACH SIDE OF LAP)	2	3	3	3	4	4	4	N/A	N/A	N/A	N/A
DIAGONAL BRACING	2	2	2	2	2	3	3	3	4	4	4
SOLE PLATE TO JOIST OR BLOCKING @ BRACED PANELS (#/16" JOIST SPACE)	2	3	3	4	---	4	4	N/A	N/A	N/A	N/A
SOLE PLATE TO JOIST OR BLOCKING	16" O.C.	8" O.C.	8" O.C.	8" O.C.	6" O.C.	8" O.C.	8" O.C.	N/A	N/A	N/A	N/A
DOUBLE TOP PLATE	16" O.C.	16" O.C.	12" O.C.	12" O.C.	8" O.C.	12" O.C.	12" O.C.	N/A	N/A	N/A	N/A
DOUBLE STUDS	12" O.C.	12" O.C.	8" O.C.	8" O.C.	6" O.C.	8" O.C.	8" O.C.	N/A	N/A	N/A	N/A
CORNER STUDS	24" O.C.	16" O.C.	16" O.C.	16" O.C.	8" O.C.	12" O.C.	12" O.C.	N/A	N/A	N/A	N/A

N/A - FASTENER NOT APPLICABLE TO CONNECTION

1. THIS FASTENING SCHEDULE APPLIES TO FRAMING MEMBERS HAVING AN ACTUAL THICKNESS OF 1 1/2" (NUMBER "2X" LUMBER)

2. FASTENINGS LISTED ABOVE MAY ALSO BE USED FOR OTHER CONNECTIONS THAT ARE NOTE LISTED BUT THAT HAVE THE SAME CONFIGURATION & THE FASTENER QUANTITY/SPACING & FASTENER SIZE (PENNYWIGHT & STYLE, E.G., 8d COMMON, "8-PENNY COMMON NAIL")

3. FASTENING SCHEDULE ONLY APPLIES TO BUILDINGS OF CONVENTIONAL WOOD FRAM CONSTRUCTION. CONNECTIONS OF SHEAR WALLS & FLOOR & SHOWN ON THE DRAWINGS.

K. WOOD SHRINKAGE

1. IBC 2304.3.3 requires that architectural, mechanical, electrical, and plumbing systems be designed to accommodate movement due to shrinkage. McClure Engineering Co. takes no responsibility for the naturally occurring shrinking that will occur.
2. Estimated values are based upon the following moisture content:
   a. At installation (MC) = 19%
   b. At equilibrium (EMC) = 8%
3. The following recommendations are intended to minimize the potential issues associated to wood shrinkage. Implementation and liability are ultimately up to the contractor or design professional responsible for the impacted trade.
   a. Mechanical, Electrical, Plumbing
      i. Allow construction gaps in the wood framing to close by delaying installation of MEP as long as possible to allow for additional dead load to be installed.
      ii. Provide oversized or long slotted holes at pipe penetrations. Holes must be within conformance of typical penetration details.
      iii. Rigid connections shall be adjusted before completion of construction of closing of wall and ceiling assemblies.
      iv. All vertical sheet metal down spouts shall have intermediate slip joints.
      v. Roof Drains shall utilize adjustable fittings. Fittings must be adjusted at the completion of construction and then as required to maintain proper drainage.
   b. Architectural Considerations
      i. Stucco, EIFS and brittle finishes shall have horizontal expansion joints, slip joints with appropriate waterproofing.
      ii. Brick and stone finishes shall have ties that accommodate differential movement.
      iii. Provide adjustable thresholds or transitions at rigid transitions such as CMU or concrete stair and elevator shafts.
   c. Construction tolerance
      i. Limit shortening due to nesting by cutting all studs level square and tight against plates.
      ii. Structural wood panels shall have ½" relief gaps at each floor to limit bulging.
      iii. Floor sheathing shall have 1/8" gaps on all sides during installation to accommodate movement.
      iv. Shear wall hold downs shall be check and retightened immediately prior to sheathing walls.
      v. Delay gyp topping around concrete and CMU stair or elevator shafts until competition of construction.
   d. Material storage
      i. Stored materials shall be covered and elevation from the elements.
      ii. Do not allow water to pond on floor sheathing. Provide drain holes if required to allow water to quickly drain if water does temporar-ily pond.
   e. Post occupancy
      i. McClure recommends a review of roof drains every 3 months for the first 24 months of occupancy and then annually. Adjust drains as required to maintain watertight integrity.
      ii. McClure recommends review of joints at exterior doors, windows and finish transitions. Waterproof as needed where original joints fail per the architect's recommendations.
      iii. Remedial self-leveling work may be required around concrete or CMU stair and elevator towers to accommodate shrinkage.

N. CONCRETE MASONRY

1. All construction shall comply with applicable provisions of the following latest ACI standards:
   a. ACI 530/ASCE 52/TMS 402 – Building Code Requirements for Masonry Structures.
   b. ACI 530.1/ASCE 6/TMS 602– Specifications for Masonry Structures.
   c. IBC Chapter 21 Masonry
2. Concrete block units shall conform to the requirements for Grade N Type 1, load-bearing normal-weight units per ASTM C-90. Use Grade S blocks below grade. All below grade block shall be solid grouted.
3. Net area compressive strength of masonry, f'_m = 2,000 psi.
4. Standard units shall have nominal face dimensions of 16 long x 8 inches high & waterproofed x 8 inches wide. The minimum compressive strength of the masonry units shall be as follows:

Net Area Compressive Strength Of Masonry (f'_m psi)	Net Area Compressive Strength Of Concrete Masonry Units (psi)	
	Type M or S mortar	Type N mortar
2,000	2000	2650

5. Mortar for unit masonry shall be proportioned per ASTM C270. The minimum mortar compressive strength is as follows:
   a. Type S: 1,800 psi
   b. Type M: 2,500 psi
6. Grout for unit masonry shall be proportioned per ASTM C476. The minimum grout compressive strength is the larger of 2,000 psi or f'_m.
7. Maximum coarse aggregate size is 3/8".
8. Reinforce all CMU walls with vertical rebar full height, centered in cell as shown on the drawings. Grout reinforced cells solid.
   a. When reinforcing is not specified, provide #5 @ 48" o.c., minimum.
9. All vertical cells to be filled shall have vertical alignment to maintain an unobstructed cell area not less than 2 in. x 3 in.
10. All bond beams shall be grouted solid and reinforced.
    a. Provide bent dowels at all wall intersections – one per bond beam at corners, and two at tee intersections.
11. Provide bond beams at all walls supporting roof and floors.
12. Grout jambs solid under all beams and lintels for full height of wall.
13. All masonry walls shall have ladder type horizontal joint reinforcement with two 9 gage wires spaced at 16" o.c. vertically, unless noted otherwise.
    a. All wall intersections shall be reinforced with prefabricated tee or corner units.
14. Use low lift method of grouting. Maximum grout lift = 5'-0". Alternative methods of grouting may be acceptable. Submit method for approval two weeks in advance.
15. Masonry reinforcing lap lengths shall be as follows:

Bar Size	Masonry Strength, f'_m (psi) 2,000
#3	12"
#4	17"
#5	27"
#6	51"
#7	69"
#8	105"
#9	132"

Notes:
1. Development length is based on 2½" masonry cover for all bars. Use bar spacers to maintain cover.

16. Brace all masonry walls until floor and roof framing and metal deck are installed.
    a. Design and installation of bracing is the responsibility of the masonry contractor.
    b. Submit bracing plan for review.
17. When grouting is stopped for more than one hour, horizontal construction joints shall be formed by stopping the pour of grout 1-1/2" below the top of the uppermost course.
18. Provide control vertical joints in wall every 40 ft. Provide vertical reinforcing in first cell each side of control joint. Do not locate control joint within 2'-0" of end or opening.
19. Conduit pipes and sleeves in masonry shall not displace more than 2 percent of the net cross-sectional area and shall be placed no closer than 3 diameters or widths on center.
20. The Contractor shall include in his bid an allowance of 300 lbs of reinforcing steel "in place" to be used in the field as the architect or structural engineer may direct.

P. POWER-ACTUATED FASTENERS (PAFS)

1. This section applies to all driven pin installation methods (e.g. powder, pneumatic, electric), regardless of terminology employed.
2. All PAFs shall be of the brand, size, and quantity indicated in the sections or details.
3. All PAFs shall be Hilti 0.157"Ø X-U, U.N.O
4. PAF length is dependent on installation penetration requirement in base material:
   a. For concrete: PAFs shall have an embedment of 1-1/2".
   b. For steel, the required penetration is dependent on the thickness of the steel substrate. The contractor shall select a PAF that satisfies the following requirements:
      i. For steel 1/2"thickness or less, PAFs must penetrate through the full base steel thickness.
      ii. For steel thickness greater than 1/2", PAFs must penetrate the steel to a depth of at least 1/2" and the head of the PAF shall be flush with the surface.
   c. For concrete masonry units (CMU): The PAF must penetrate 1" into the substrate.
   d. The contractor must consider the thickness of the component attached to the substrate material to ensure adequate penetration or embedment. A PAF that is equal in length to the specified penetration or embedment is inadequate to comply with this requirement.
5. Refer to PAF spacing and edge distance general details for minimum spacing and edge distance requirements in all base materials.
6. Notify the manufacturer for instructions if PAFs are not driven flush to surface.
7. Do not re-drive PAFs if they do not drive completely on the first charge. Remove and replace the PAF in question or contact the manufacturer for specific alternative instructions.
8. PAFs shall not be installed into concrete until the concrete has achieved the minimum compressive strength listed in the concrete requirements of the structural general notes.
9. PAFs shall not be driven into steel that is 3/16" thick or less. Notify McClure for alternate connection options.
10. PAFs driven into existing concrete may cause damage. The contractor is responsible for ensuring anchors do not damage existing structure. Notify McClure if alternate anchorage requirements are needed to protect existing concrete.
11. PAFs have limited use in seismic applications. Additional anchorage may be required as indicated in the details. Deferred submittals shall fully consider the most restrictive implications of ASCE 7 Section 13.1.4. and the manufacturer's product ESR for use of PAFs to resist seismic loads.
12. PAF installers must be certified by the manufacturer of the PAFs being installed.
13. PAFs shall not be substituted without the written approval of McClure prior to fabrication. Requests after installation may incur additional charges for evaluation.

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04/17/2024

HOME2 SUITES BY HILTON
251 NE ALURA WAY
LEE'S SUMMIT, MISSOURI 64064

SHEET TITLE
GENERAL NOTES

PROJECT NUMBER: 2023000333

SHEET NUMBER:

S003

STRUCTURAL STATEMENT OF SPECIAL INSPECTIONS

Project Name: Home2 Suites By Hilton Address: 251 NE Alura Way, Lee's Summit, MO 64064

1. This Statement of Special Inspections is submitted as a condition for permit issuance in accordance with the Special Inspection and Structural Testing requirements of the Building Code. It includes a schedule of Special Inspection services applicable to this project as well as the name of the Special Inspector to be retained for conducting these inspections an...

2. The Special Inspector shall keep records of all inspections and shall furnish inspection reports to the Building Official and the Registered Design Professional in Responsible Charge. Discovered discrepancies shall be brought to the immediate attention of the Contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Registered Design Professional in Responsible Charge. The Special Inspection program does not relieve the Contractor of his or her responsibilities.

3. Interim reports shall be submitted to the Building Official and the Registered Design Professional in Responsible...

4. A Final Report of Special Inspections documenting completion of all required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted prior to issuance of a Certificate of Use and...

5. Job site safety and means and methods of construction are solely the responsibility of the Contractor. This Statement of Special Inspections includes the following building systems: 1

x Fabricators	x Soils
x Cast-In-Place Foundations Elements	o Driven Deep Foundation Elements
o Helical Pile Foundations	x Cast-In-Place Deep Foundation Elements
x Concrete Construction	x Masonry Construction - Level 1
o Masonry Construction - Level 2	x Structural Steel Construction
o Steel Construction Other than Structural Steel	x Wood Construction
o Spray Fire-Resistant Materials	o Mastic and Intumescent Fire-Resistant Coatings
o Exterior Insulation and Finish System (EIFS)	o Fire-Resistant Penetrations and Joints
o Smoke Control	x Wind Resistance
x Seismic Resistance	

6. Special Inspection Agency:

_____

_____

_____

Special Inspection Schedule: Fabricators

Verification And Inspection Task	Applicable To This Project?	Frequency: Continuous	Frequency: Periodic
1. Verify fabrication and implementation procedures:			
a. Steel Construction	X	-	X
b. Concrete Construction (including rebar fabrication)	X	-	X
c. Masonry Construction	-	-	X
d. Wood Construction	X	-	X
e. Cold Formed Metal Construction	-	-	X
f. Other Construction	-	-	X

Special Inspection Schedule: Soils

Verification And Inspection Task	Applicable To This Project?	Frequency: Continuous	Frequency: Periodic
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	X	-	X
2. Verify excavations are extended to proper depth and have reached proper material.	X	-	X
3. Perform classification and testing of compacted fill materials.	X	-	X
4. Verify use of proper materials, densities and lift thickness during placement and compaction of compacted fill.	X	X	-
5. Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly.	X	-	X

Special Inspection Schedule: Cast-In-Place Foundation Elements

Verification And Inspection Task	Applicable To This Project?	Frequency: Continuous	Frequency: Periodic
1. Special Inspections and verifications for concrete foundation construction in accordance with the Special Inspection Schedule: Cast-In-Place Concrete for the following foundation elements:			
a. Isolated spread concrete footings.	-	-	X
b. Continuous concrete Grade Beams.	X	-	X
c. Concrete foundation walls.	X	X	-

Special Inspection Schedule: Concrete Construction

Verification And Inspection Task	Applicable To This Project?	Frequency: Continuous	Frequency: Periodic
1. Inspect reinforcing steel, including prestressing tendons and placement.	X	-	X
2. Inspect reinforcing steel welding in accordance with the Special Inspection Schedule: Steel Construction (other than Item 3).	X	-	-
3. Inspect anchors cast in concrete where allowable loads have been increased or where strength design is used.	X	-	X
4. Inspect anchors post-installed in hardened concrete members.	X	-	X
5. Verify use of required design mix.	X	-	X
6. At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests and record the temperature of the concrete.	X	X	-
7. Inspect concrete and shotcrete placement for proper application techniques.	X	X	-
8. Inspect for maintenance of specified curing temperature and techniques.	X	-	X
9. Inspection of Prestressed Concrete:			
a. Observe application of prestressing forces.	-	X	-
b. Observe grouting of bonded prestressing tendons in the seismic force resisting system.	-	X	-
10. Inspect erection of precast concrete members.	-	-	-
11. Verify in-situ concrete strength prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs.	-	-	X
12. Inspect formwork for shape, location, and dimensions of the concrete member being formed.	X	-	X

Special Inspection Schedule: Structural Steel Construction

Verification And Inspection Task	Applicable To This Project?	Frequency: Continuous	Frequency: Periodic
1. Material verification of high-strength bolts, nuts and washers:			
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	X	-	X
b. Manufacturer's certificate of compliance required.	X	-	X
2. Inspection of high-strength bolting:			
a. Snug-tight joints.	X	-	X
b. Pretensioned and slip-critical joints using turn-of-nut with match marking, twist-off bolt, or direct tension indicator methods of installation.	-	-	X
c. Pretensioned and slip-critical joints using turn-of-nut without match marking or calibrated wrench methods of installation.	-	X	-
3. Material verification of structural steel:			
a. Identification markings to conform to ASTM standards specified in the approved Construction Documents and AISC 360.	X	-	X
b. Manufacturer's certified test reports.	X	-	X
4. Material verification of weld filler materials:			
a. Identification markings to conform to AWS specification in the approved Construction Documents.	X	-	X
b. Manufacturer's certificate of compliance required.	X	-	X
5. Inspection of welding, structural steel:			
a. Complete and partial penetration groove welds.	X	X	-
b. Multi-pass fillet welds.	X	X	-
c. Single-pass fillet welds > 5/16".	X	X	-
d. Single-pass fillet welds < 5/16".	X	-	X
6. Inspection of steel frame joint details for compliance with approved Construction Documents:			
a. Details such as bracing and stiffening.	X	-	X
b. Member locations.	X	-	X
c. Application of joint details at each connection.	X	-	X

Special Inspection Schedule: Wood Construction

Verification And Inspection Task	Applicable To This Project?	Frequency: Continuous	Frequency: Periodic
1. Inspection of high-load diaphragms:			
a. Verify wood structural panel sheathing is of the grade and thickness shown on the Construction Documents.	X	-	X
b. Verify nominal size of framing members at adjoining panel edges agrees with the Construction Documents.	X	-	X
c. Verify fastener diameter and length, number of fastener lines, the spacing of the fasteners, and the edge margins agree with the Construction Documents.	X	-	X
2. Inspection of metal-plate-connected wood trusses spanning 60 feet or greater:			
a. Verify temporary installation restraint/bracing are installed in accordance with approved truss submittal package.	X	-	X
b. Verify permanent individual truss member restraint/bracing are installed in accordance with approved truss submittal package.	X	-	X

Special Inspection Schedule: Masonry Construction - Level 1

Verification And Inspection Task	Applicable To This Project?	Frequency: Continuous	Frequency: Periodic
1. Compliance with required inspection provisions of the Construction Documents and the approved submittals shall be verified.	X	-	X
2. Verify f'm and f'aac prior to construction except where specifically exempted by the building code.	X	-	X
3. Verify slump flow and VSI as delivered to the site for self-consolidating grout.	X	X	-
4. As masonry construction begins, the following shall be verified to ensure compliance:			
a. Proportions of site-prepared mortar.	X	-	X
b. Construction of mortar joints.	X	-	X
c. Location of reinforcement, connectors, prestressing tendons, and anchorages.	X	-	X
d. Prestressing technique.	-	-	X
e. Grade and size of prestressing tendons and anchorages.	-	-	X
5. During construction, the inspection program shall verify:			
a. Size and location of structural elements.	X	-	X
b. Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction.	X	-	X
c. Specified size, grade, and type of reinforcement, anchor bolts, prestressing tendons, and anchorages.	X	-	X
d. Welding of reinforcing bars.	-	X	-
e. Preparation, construction, and protection of masonry during cold weather (temperature < 40°f) or hot weather (temperature > 90°f).	X	-	X
f. Application and measurement of prestressing force.	-	X	-
6. Prior to grouting, the following shall be verified to ensure compliance:			
a. Grout space is clean.	X	-	X
b. Placement of reinforcement, connectors, prestressing tendons, and anchorages.	X	-	X
c. Proportions of site-prepared grout and prestressing grout for bonded tendons.	X	-	X
d. Construction of mortar joints.	X	-	X
7. Grout placement shall be verified to ensure compliance with Building Code and Construction Document provisions.			
a. Grouting of prestressing bonded tendons.	-	X	-
8. Preparation of any required grout specimens, mortar specimens, and/or prisms shall be observed.	X	-	X

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251 NE ALURA WAY
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SHEET TITLE
STRUCTURAL SPECIAL INSPECTIONS

PROJECT NUMBER: 2023000333

SHEET NUMBER:

S004

WOOD SHEAR WALL SCHEDULE

Mark	Level	Sheathing/ Fastener Layout	Post	Hold-Down	Min. Sill/Top...	Base Connection
SW1	Level 4	(2) Sided, Gypsum Wallboard - 5/8" Thick, 6d Nail, 7" Edge Fastening, 24"O.C. Unblocked	(2) 2x6	LSTA15 w/ (12) 0.148"x2-1/2" nails	(1) 2x6	(2) 16d Nails @ 16" o.c.
	Level 3	(2) Sided, Gypsum Wallboard - 5/8" Thick, 6d Nail, 7" Edge Fastening, 24"O.C. Unblocked	(2) 2x6	LSTA30 w/ (22) 0.148"x2-1/2" nails	(1) 2x6	(2) 16d Nails @ 16" o.c.
	Level 2	(2) Sided, Gypsum Wallboard - 5/8" Thick, 6d Nail, 4" Edge Fastening, 16"O.C. Blocked	(2) 2x6	LSTA30 w/ (22) 0.148"x2-1/2" nails	(1) 2x6	(2) 16d Nails @ 8" o.c.
	Level 1	(2) Sided, Gypsum Wallboard - 2 Ply 5/8" Thick, 6d @9" Base, 8d @ 7" Face, 16" Blocked	(2) 2x6	HTT4 w/ (18) SD #10x1-1/2 & 5/8"Ø Anchor Rod 8" Embedment	(1) 2x6	(1) 1/2"Ø x 6" Hilti KH-EZ @ 16" o.c. max. 1
SW2	Level 4	(1) Sided, Wood Structural Panels - Sheathing - 15/32" Thick, 10d Nail, 6" Edge fastening Unblocked	(2) 2x6	MST37 w/ (14) 0.162X2 1/2" nails	(1) 2x6	(2) 16d Nails @ 6" o.c.
	Level 3	(1) Sided, Wood Structural Panels - Sheathing - 15/32" Thick, 10d Nail, 4" Edge fastening	(2) 2x6	MST37 w/ (22) 0.162x2-1/2" nails	(1) 2x6	(2) 16d Nails @ 2" o.c.
	Level 2	(1) Sided, Wood Structural Panels - Sheathing - 15/32" Thick, 10d Nail, 3" Edge fastening	(2) 2x6	MST48 w/ (34) 0.162x2-1/2" nails	(1) 2x6	(2) 16d Nails @ 2" o.c.
	Level 1	(1) Sided, Wood Structural Panels - Sheathing - 15/32" Thick, 10d Nail, 3" Edge fastening	(2) 2x6	HTT4 w/ (18) SD #10x1-1/2 & 5/8"Ø Anchor Rod 8" Embedment	(1) 2x6	(1) 1/2"Ø x 6" Hilti KH-EZ @ 16" o.c. max. 1
SW3	Level 4	(2) Sided, Gypsum Wallboard - 5/8" Thick, 6d Nail, 7" Edge Fastening, 24"O.C. Unblocked	(2) 2x6	LSTA30 w/ (22) 0.148"x2-1/2" nails	(1) 2x6	(2) 16d Nails @ 16" o.c.
	Level 3	(2) Sided, Gypsum Wallboard - 2 Ply 5/8" Thick, 6d @9" Base, 8d @ 7" Face, 16" Blocked	(2) 2x6	MST37 w/ (22) 0.162x2-1/2" nails	(1) 2x6	(2) 16d Nails @ 8" o.c.
	Level 2	(2) Sided, Gypsum Wallboard - 2 Ply 5/8" Thick, 6d @9" Base, 8d @ 7" Face, 16" Blocked	(2) 2x6	MST37 w/ (22) 0.162x2-1/2" nails	(1) 2x6	(2) 16d Nails @ 6" o.c.
	Level 1	(1) Sided, Wood Structural Panels - Sheathing - 15/32" Thick, 10d Nail, 4" Edge fastening	(2) 2x6	HTT5-3/4 w/ (26) 0.162"Øx2-1/2" & 3/4"Ø Anchor Rod 8" Embedment	(1) 2x6	(1) 1/2"Ø x 6" Hilti KH-EZ @ 16" o.c. max. 1
SW4	Level 4	(1) Sided, Wood Structural Panels - Sheathing - 15/32" Thick, 10d Nail, 6" Edge fastening	(2) 2x6	MST37 w/ (22) 0.162x2-1/2" nails	(1) 2x6	(2) 16d Nails @ 8" o.c.
	Level 3	(1) Sided, Wood Structural Panels - Sheathing - 15/32" Thick, 10d Nail, 4" Edge fastening	(2) 2x6	MST48 w/ (34) 0.162x2-1/2" nails	(1) 2x6	(2) 16d Nails @ 6" o.c.
	Level 2	(1) Sided, Wood Structural Panels - Sheathing - 15/32" Thick, 10d Nail, 3" Edge fastening	(2) 2x6	MST60 w/ (46) 0.162x2-1/2" nails	(1) 2x6	(2) 16d Nails @ 4" o.c.
	Level 1	(1) Sided, Wood Structural Panels - Sheathing - 15/32" Thick, 10d Nail, 3" Edge fastening	(3) 2x6	HHDQ11-SDS2.5 w/ (24) 1/4"Øx2-1/4" SDS screws & 1"Ø Anchor Rod 12" Embedment	(1) 2x6	(1) 1/2"Ø x 6" Hilti KH-EZ @ 16" o.c. max. 1
SW5	Level 4	(1) Sided, Wood Structural Panels - Sheathing - 15/32" Thick, 10d Nail, 6" Edge fastening Unblocked	(2) 2x6	MST37 w/ (22) 0.162x2-1/2" nails	(1) 2x6	(2) 16d Nails @ 16" o.c.
	Level 3	(1) Sided, Wood Structural Panels - Sheathing - 15/32" Thick, 10d Nail, 6" Edge fastening	(2) 2x6	MST37 w/ (22) 0.162x2-1/2" nails	(1) 2x6	(2) 16d Nails @ 8" o.c.
	Level 2	(1) Sided, Wood Structural Panels - Sheathing - 15/32" Thick, 10d Nail, 4" Edge fastening	(2) 2x6	MST48 w/ (34) 0.162x2-1/2" nails	(1) 2x6	(2) 16d Nails @ 6" o.c.
	Level 1	(1) Sided, Wood Structural Panels - Sheathing - 15/32" Thick, 10d Nail, 4" Edge fastening	(3) 2x6	HDQ8-SDS3 w/ (20) 1/4"Øx3" SDS screws & 7/8"Ø Anchor Rod 10" Embedment	(1) 2x6	(1) 1/2"Ø x 6" Hilti KH-EZ @ 16" o.c. max. 1
SW6	Level 4	(1) Sided, Wood Structural Panels - Sheathing - 15/32" Thick, 10d Nail, 6" Edge fastening Unblocked	(2) 2x6	LSTA9 w/ (8) 0.148"x2-1/2" nails	(1) 2x6	(2) 16d Nails @ 16" o.c.
	Level 3	(1) Sided, Wood Structural Panels - Sheathing - 15/32" Thick, 10d Nail, 6" Edge fastening Unblocked	(2) 2x6	LSTA9 w/ (8) 0.148"x2-1/2" nails	(1) 2x6	(2) 16d Nails @ 16" o.c.
	Level 2	(1) Sided, Wood Structural Panels - Sheathing - 15/32" Thick, 10d Nail, 6" Edge fastening Unblocked	(2) 2x6	LSTA9 w/ (8) 0.148"x2-1/2" nails	(1) 2x6	(2) 16d Nails @ 16" o.c.
	Level 1	(1) Sided, Wood Structural Panels - Sheathing - 15/32" Thick, 10d Nail, 6" Edge fastening	(2) 2x6	DTT2Z w/ (8) 1/4"Øx1-1/2" SDS screws & 1/2"Ø Anchor Rod 4" Embedment	(1) 2x6	(1) 1/2"Ø x 6" Hilti KH-EZ @ 32" o.c. max. 1
SW7	Level 4	(2) Sided, Gypsum Wallboard - 5/8" Thick, 6d Nail, 7" Edge Fastening, 24"O.C. Unblocked	(2) 2x6	LSTA12 w/ (10) 0.148"x2-1/2" nails	(1) 2x6	(2) 16d Nails @ 10" o.c.
	Level 3	(2) Sided, Gypsum Wallboard - 5/8" Thick, 6d Nail, 7" Edge Fastening, 16"O.C. Blocked	(2) 2x6	LSTA30 w/ (22) 0.148"x2-1/2" nails	(1) 2x6	(2) 16d Nails @ 4" o.c.
	Level 2	(2) Sided, Gypsum Wallboard - 5/8" Thick, 6d Nail, 4" Edge Fastening, 16"O.C. Blocked	(2) 2x6	MST37 w/ (22) 0.162x2-1/2" nails	(1) 2x6	(2) 16d Nails @ 3" o.c.
	Level 1	(2) Sided, Gypsum Wallboard - 5/8" Thick, 6d Nail, 4" Edge Fastening, 24"O.C. Unblocked	(2) 2x6	HTT4 w/ (18) SD #10x1-1/2 & 5/8"Ø Anchor Rod 6" Embedment	(1) 2x6	(1) 1/2"Ø x 6" Hilti KH-EZ @ 32" o.c. max.

Notes:
1. See 2/S550 for typical shear wall framing
2. All hold down embedded anchors in concrete shall use Hilti HIT-HY 200 V3 Adhesive or Equivalent
3. All threaded rods shall be F1554 GR105
4. Floor to floor strap ties at top of wall shall match that of the floor above.
5. All hold downs and strap ties are Simpson Strong-Tie brand, U.N.O.
6. All drag trusses shall be connected to shear walls per detail 4/S530.
7. Provide floor to floor strapping on the same side as the OSB sheathing.
8. See 3/S550 for shear wall to foundation hold-down detail.
9. Minimum spacing of Level 1 KH-EZ bottom plate fasteners = 4"

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STATE OF MISSOURI
CELESTE KAY SPICKERT
NUMBER PE-2009022213
PROFESSIONAL ENGINEER
05/17/2024

HOME2 SUITES BY HILTON

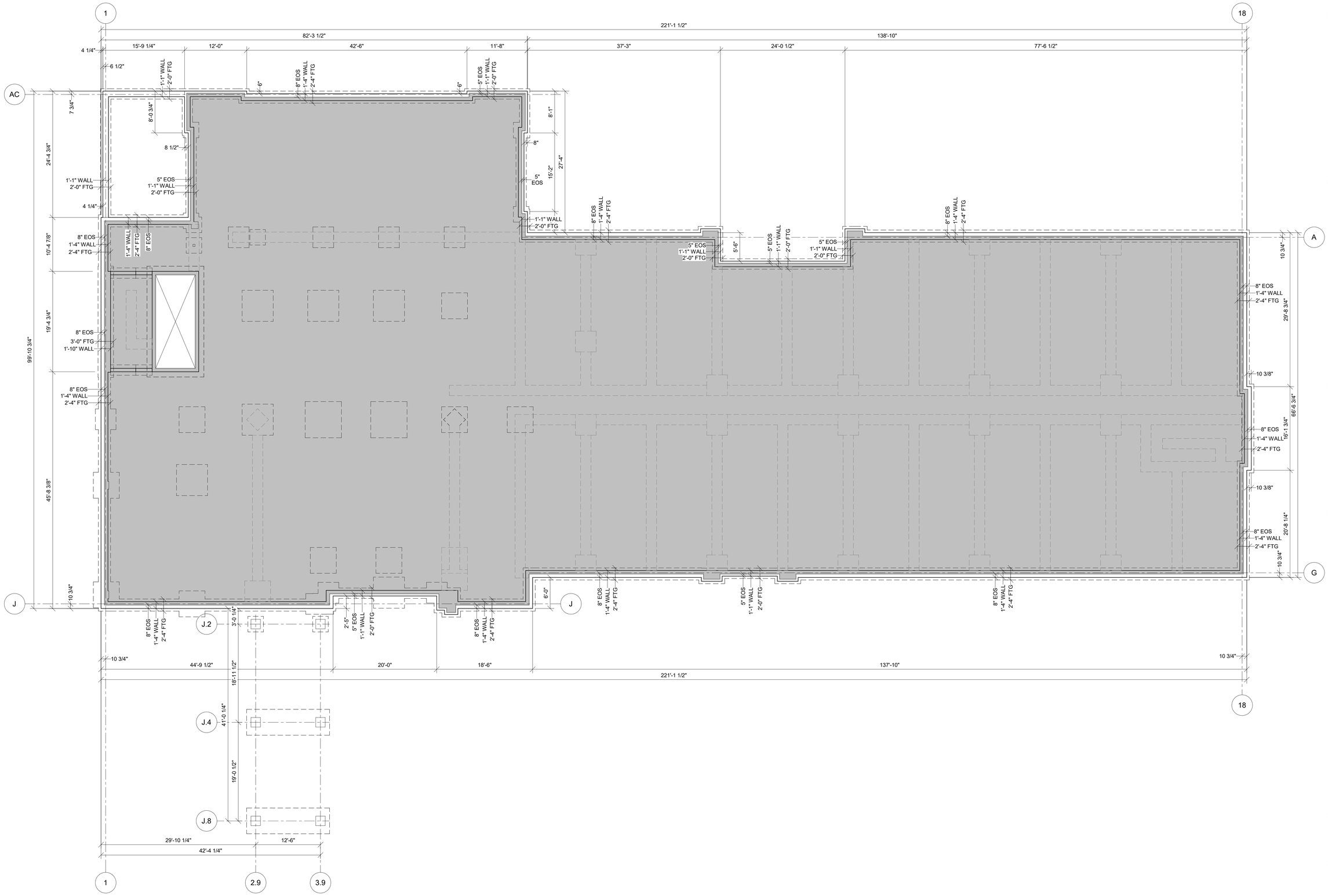
251 NE ALURA WAY
LEE'S SUMMIT, MISSOURI 64064

SHEET TITLE
SCHEDULES

PROJECT NUMBER: 2023000333

SHEET NUMBER:

S005



1 S099 OVERALL FOUNDATION AND SLAB-ON-GRADE DIMENSIONS
1/8" = 1'-0"

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PROFESSIONAL ENGINEER
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SHEET TITLE
EXTERIOR FOUNDATION WALL AND SLAB-ON-GRADE DIMENSION PLAN

PROJECT NUMBER: 2023000333

SHEET NUMBER:

S099

T/ EXTERIOR SLAB ON GRADE REF ELEV = 100'-0" AT FACE OF BUILDING, SLOPE TO OUTSIDE EDGE

5" 5,000 PSI CONCRETE SLAB-ON-GRADE W/ 6x6x-W2.9xW2.9 WWF OVER SUBGRADE PER GEOTECH REPORT. CENTER WELDED WIRE FABRIC IN DEPTH OF SLAB. REINFORCE RE-ENTRANT CORNERS PER DETAL 2 / S501.

T/ SLAB ON GRADE REF ELEV = 100'-0"

4" 4,000 PSI CONCRETE SLAB-ON-GRADE W/ 6x6x-W2.9xW2.9 WWF OVER SUBGRADE PER GEOTECH REPORT. CENTER WELDED WIRE FABRIC IN DEPTH OF SLAB. REINFORCE RE-ENTRANT CORNERS PER DETAIL 2 / S501

SW4 HOLD DOWN LOCATED WITHIN ISOLATION JOINT, REF 8 / S502 FOR INFILL REINFORCEMENT DETAIL

ATYPICAL SLAB ISOLATION JOINT SEE 8 / S502

THICKENED SLAB LARGER AT SW4 HOLD DOWNS ONLY TOTAL THICKNESS = 2'-0"

THICKENED SLAB BELOW ALL BEARING WALLS, TYP.

THICKENED SLAB AT SHEAR WALL HOLD DOWN LOCATIONS, 18" THICK TYP UNO.

COMBINED FOOTING
5'-0" x 16'-0" x 1'-0" W/ #5 @ 12" O.C. EA. WAY TOP & BOT

1 S100 FOUNDATION PLAN
1/8" = 1'-0"

FOUNDATION PLAN LEGEND	
F#	FOOTING TYPE
P#	PIER TYPE
BP#	BASE PLATE TYPE
HD	SHEAR WALL HOLD DOWN LOCATION
	CMU WALL ABOVE

COLUMN FOOTING SCHEDULE		
Mark	Dimensions	Reinforcing
F3.0	3'-0" x 3'-0" x 1'-0"	(3) #5 each way, bottom
F4.0	4'-0" x 4'-0" x 1'-0"	(4) #5 each way, bottom
F5.0	5'-0" x 5'-0" x 1'-0"	(5) #5 each way, bottom
F6.0	6'-0" x 6'-0" x 1'-0"	(6) #5 each way, bottom
F6.5	6'-6" x 6'-6" x 1'-4"	(7) #6 each way, bottom
F7.5	7'-6" x 7'-6" x 1'-4"	(8) #6 each way, bottom

1

FOUNDATION PLAN NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR SITE PLAN BENCHMARK ELEVATION. FOR REFERENCE ELEVATIONS, SEE BELOW (VERIFY ALL ELEVATIONS AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS.)
   - T.O. SLAB-ON-GRADE: 100'-0"
2. PROVIDE CONTROL JOINTS IN SLAB ON GRADE PER DETAIL 4 / S501 AND PER GENERAL NOTES.
3. COORDINATE PLUMBING FIXTURES AND FLOOR DRAINS WITH ARCH. & MEP DRAWINGS.
4. REFER TO MANUFACTURER'S GUIDELINES FOR INSTALLATION OF STRAP TIES, HOLD DOWNS & OTHER CONNECTIONS.
5. SEE S500 SERIES SHEETS FOR DETAILS.

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SHEET TITLE
FOUNDATION PLAN

PROJECT NUMBER: 2023000333

SHEET NUMBER:
S100

5/16/2024 4:32:44 PM
Autodesk Docs://2023000333 - Discovery Park Lee's Summit/2023000333 - Royalmann - Home2_R23.rvt

STRUCTURAL WALL SCHEDULE (WALLS SHOWN ON FRAMING PLAN ARE LEVEL BELOW)					
Location	Wall stud size and number of plies @ 16" o.c. U.N.O. on plan				SHEATHING & FASTENING U.N.O. (See Note 4)
	Level 1	Level 2	Level 3	Level 4	
EXTERIOR	(2) 2x6	(1) 2x6	(1) 2x6	(1) 2x6	15/32" Structural wood sheathing fastened w/ 10d nails. 6" o.c. edge fastening, 12" o.c. field fastening
BETWEEN UNITS	(2) 2x6	(1) 2x6	(1) 2x6	(1) 2x6	5/8" Gypsum wallboard fastened w/ 1 5/8" Type W screws 7" o.c. edge fastening, 7" o.c. field fastening
CORRIDOR	(1) 2x6	(1) 2x6	(1) 2x6	(1) 2x6	5/8" Gypsum wallboard fastened w/ 1 5/8" Type W screws 7" o.c. edge fastening, 7" o.c. field fastening

Notes:
1. Sill plates at foundation to be fastened w/ 5/8"Ø x 5-1/2" Hilti KH EZ @ 48" o.c. U.N.O.
2. Sill plate connections shall have a 3"x3" steel plate washer at each anchor bolt on shear walls only.
3. Top and bottom plates at all other levels to be fastened w/ (2) 16d nails @ 16" o.c. U.N.O.
4. Shear walls shall be sheathed and fastened per Shear Wall Schedule
5. Non-structural walls not shown, refer to architectural drawings.
6. All top plates are to be continuous. Splice per 3/S531

FRAMING PLAN LEGEND

- CMU WALL
- BLOCKED DIAPHRAGM AREAS
- GT GIRDER TRUSS
- SHEAR WALL

MAX. SHEAR REACTION (ASD) (IF EXCEEDS DESIGN REACTION SCHEDULE ON S002) — #k

BEAM SHAPE — W##X##

MAX. SHEAR REACTION (ASD) (IF EXCEEDS DESIGN REACTION SCHEDULE ON S002) — #k

BEAM ANNOTATION LEGEND

PRINTS ISSUED
04/17/2024 - CITY SUBMISSION

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MISSOURI CERTIFICATE OF AUTHORITY
NO. E-2006023253
EXPIRES: DECEMBER 31, 2024

STATE OF MISSOURI
CELESTE KAY SPICKERT
NUMBER PE-2008002213
PROFESSIONAL ENGINEER

06/14/2024
Celeste Kay Spickert
PE-2008002213
Expires 12/31/2024

HOME2 SUITES BY HILTON

251 NE ALURA WAY
LEE'S SUMMIT, MISSOURI 64064

SHEET TITLE
LEVEL 2 FRAMING PLAN

PROJECT NUMBER: 2023000333

SHEET NUMBER:

S101

LVL BEAM SCHEDULE	
MARK	DESCRIPTION
B3	(3) 1 3/4" X 11 7/8" LVL

Notes:
1. All beams shall be stress class 2.0E-2500F LVL.

TYPICAL WALL HEADER SCHEDULE (WALLS SHOWN ON FRAMING PLAN ARE LEVEL BELOW)									
Header Type	Header	Kings/Jacks							
		Level 1		Level 2		Level 3		Level 4	
(A)	(3) 2x8	(2) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J
(B)	(3) 2x10	(2) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J
(C)	(3) 1 3/4"x11 7/8" LVL	(2) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J
(HA)	(3) 2x10	(3) 2x6 K	(2) 2x6 J						
(HB)	(3) 1 3/4"x11 7/8" LVL	(1) 2x6 K	(2) 2x6 J						

(X) = Header Type

Notes:
1. See 5/S531 for typical opening framing.
2. Coordinate all dimensions and elevations with architectural drawings.
3. Provide double sills below windows at openings greater than 6'-0" in length.
4. All LVL shall be stress class 2.0E-2500F.
5. All Glulam shall be stress class 24F-1.8E.

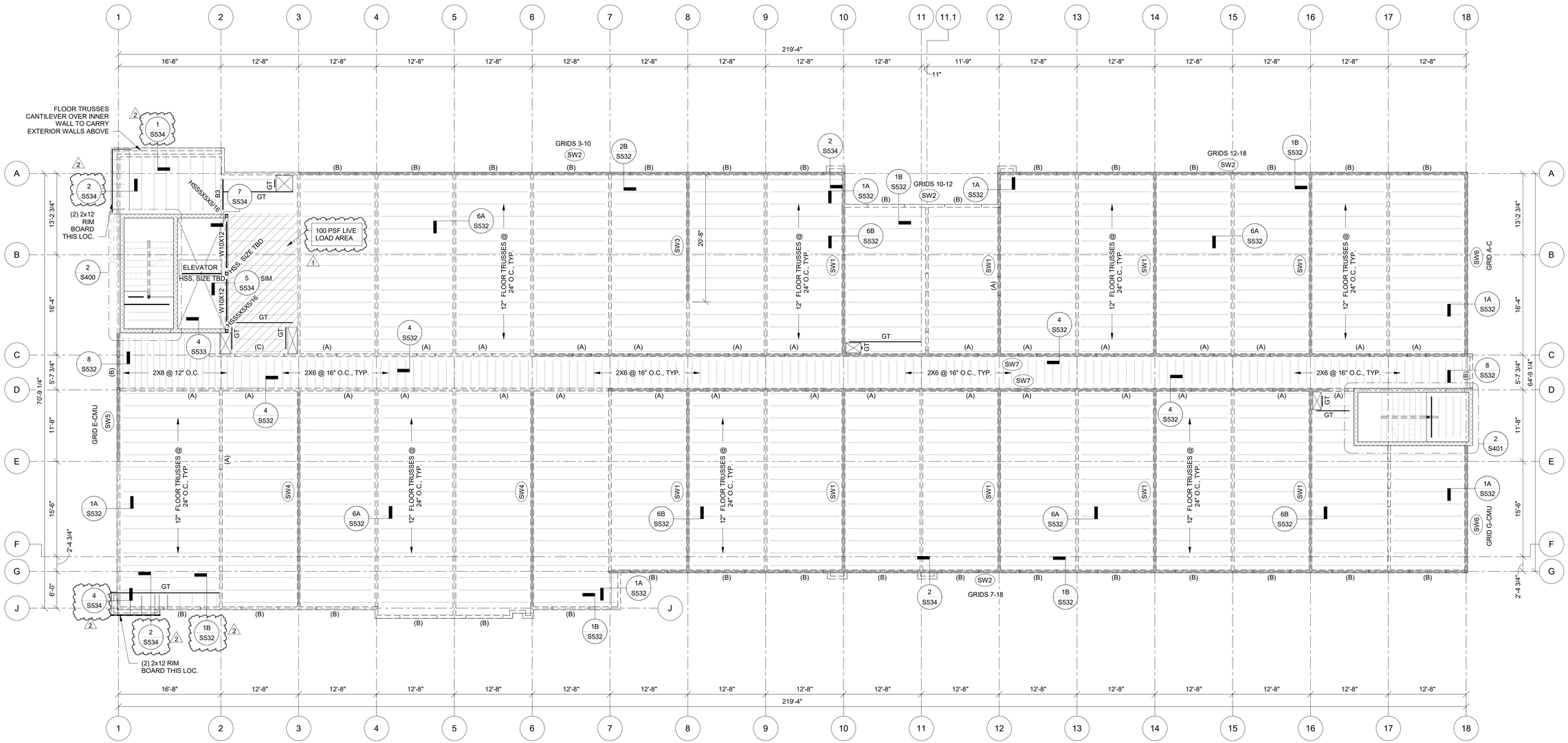
LEVEL 2 PLAN NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR SITE PLAN BENCHMARK ELEVATION. FOR REFERENCE ELEVATION, SEE BELOW (VERIFY ALL ELEVATIONS AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS).
   - LEVEL 2 T.O. SHEATHING: 113'-3" U.N.O.
   - LEVEL 2 T.O. STEEL 112'-11 1/4" U.N.O.
2. FLOOR SHEATHING: 3/4" STRUCTURAL GRADE PLYWOOD. FASTEN TO FRAMING W/ 10d COMMON NAILS SPACED 6" O.C. AT EDGES, 12" O.C. WITHIN FIELD.
3. ROOF SHEATHING: 3/4" STRUCTURAL GRADE PLYWOOD FASTENED TO FRAMING W/ 10d COMMON NAILS SPACED 6" O.C. AT EDGES, 12" O.C. WITHIN FIELD. SHEATHING IS TO BE TOPPED WITH SLOPED RIGID INSULATION PER ARCH.
4. PLUMBING FIXTURES, SHAFTS, AND FLOOR DRAINS ARE TO BE COORDINATED W/ ARCH. & MEP DRAWINGS.
5. SEE ARCHITECTURAL FLOOR PLAN FOR NON-BEARING WALL, DOOR, AND WINDOW LOCATIONS.
6. FLOOR PLAN SHOWS FRAMING FOR THE FLOOR INDICATED & VERTICAL FRAMING (WALLS, OPENING, POSTS, COLUMNS) SUPPORTING THAT FLOOR.
7. SEE ARCHITECTURAL DRAWINGS FOR ALL RAILING DETAILS. REFER TO GENERAL NOTES FOR DESIGN CRITERIA.
8. REFER TO MANUFACTURER'S GUIDELINES FOR INSTALLATION OF STRAP TIES, HOLD DOWNS & OTHER CONNECTIONS.
9. ALL EXTERIOR LUMBER (POSTS, BEAMS, DECKING, ETC.) TO BE TREATED.
10. WOOD FLOOR TRUSSES TO BE DESIGNED BY OTHERS AND ARE SHOWN FOR THE INTENT OF SPAN DIRECTION AND LOAD PATH ONLY. REFER TO GENERAL NOTES FOR DESIGN CRITERIA.
11. TRUSS MANUFACTURER TO DESIGN & PROVIDE GIRDER TRUSSES AT ALL FLOOR OPENINGS & SPECIFY HANGERS FOR GIRDERS & SUPPORTED FRAMING.
12. REFER TO ARCHITECTURAL PLANS FOR STAIR DIMENSIONS AND REQUIREMENTS.
13. T.O.S. FOR BEAMS SUPPORTED WOOD FLOOR FRAMING TO BE 3" BELOW UNDERSIDE OF SUB FLOOR, W/ (2) 2X WOOD PLATES ON TOP (RIPPED TO WIDTH OF BEAM). FASTEN LOWER PLATE TO STEEL BEAM W/(2) HILTI X-U PAFS @ 8" O.C. STAGGERED
14. 14. ALL STEEL BEAM CONNECTIONS SHALL BE DESIGNED FOR FORCES SHOWN ON MIN DESIGN REACTION SCHEDULE ON S002 UNLESS NOTED ON PLAN.

1 S101 LEVEL 2 FRAMING PLAN
1/8" = 1'-0"

FRAMING PLAN LEGEND

- CMU WALL
- BLOCKED DIAPHRAGM AREAS
- GT GIRDER TRUSS
- SHEAR WALL



STRUCTURAL WALL SCHEDULE (WALLS SHOWN ON FRAMING PLAN ARE LEVEL BELOW)					
Location	Wall stud size and number of plies @ 16" o.c. U.N.O. on plan				SHEATHING & FASTENING U.N.O. (See Note 4)
	Level 1	Level 2	Level 3	Level 4	
EXTERIOR	(2) 2x6	(1) 2x6	(1) 2x6	(1) 2x6	15/32" Structural wood sheathing fastened w/ 10d nails. 6" o.c. edge fastening, 12" o.c. field fastening
BETWEEN UNITS	(2) 2x6	(1) 2x6	(1) 2x6	(1) 2x6	5/8" Gypsum wallboard fastened w/ 1 5/8" Type W screws 7" o.c. edge fastening, 7" o.c. field fastening
CORRIDOR	(1) 2x6	(1) 2x6	(1) 2x6	(1) 2x6	5/8" Gypsum wallboard fastened w/ 1 5/8" Type W screws 7" o.c. edge fastening, 7" o.c. field fastening

Notes:
1. Sill plates at foundation to be fastened w/ 5/8"Ø x 5-1/2" Hilti KH EZ @ 48" o.c. U.N.O.
2. Sill plate connections shall have a 3"x3" steel plate washer at each anchor bolt on shear walls only.
3. Top and bottom plates at all other levels to be fastened w/ (2) 16d nails @ 16" o.c. U.N.O.
4. Shear walls shall be sheathed and fastened per Shear Wall Schedule
5. Non-structural walls not shown, refer to architectural drawings.
6. All top plates are to be continuous. Splice per 3/S531

TYPICAL WALL HEADER SCHEDULE (WALLS SHOWN ON FRAMING PLAN ARE LEVEL BELOW)									
Header Type	Header	Kings/Jacks							
		Level 1		Level 2		Level 3		Level 4	
(A)	(3) 2x8	(2) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J
(B)	(3) 2x10	(2) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J
(C)	(3) 1 3/4"x11 7/8" LVL	(2) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J
(HA)	(3) 2x10	(3) 2x6 K	(2) 2x6 J						
(HB)	(3) 1 3/4"x11 7/8" LVL	(1) 2x6 K	(2) 2x6 J						

(X) = Header Type

Notes:
1. See 5/S531 for typical opening framing.
2. Coordinate all dimensions and elevations with architectural drawings.
3. Provide double sills below windows at openings greater than 6'-0" in length.
4. All LVL shall be stress class 2.0E-2500F.
5. All Glulam shall be stress class 24F-1.8E.

LEVEL 3 PLAN NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR SITE PLAN BENCHMARK ELEVATION. FOR REFERENCE ELEVATION, SEE BELOW (VERIFY ALL ELEVATIONS AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS.).
   - LEVEL 3 T.O. SHEATHING: 123'-6" U.N.O.
2. FLOOR SHEATHING: 3/4" STRUCTURAL GRADE PLYWOOD. FASTEN TO FRAMING W/ 10d COMMON NAILS SPACED 6" O.C. AT EDGES, 12" O.C. WITHIN FIELD.
3. PLUMBING FIXTURES, SHAFTS, AND FLOOR DRAINS ARE TO BE COORDINATED W/ ARCH. & MEP DRAWINGS.
4. SEE ARCHITECTURAL FLOOR PLAN FOR NON-BEARING WALL, DOOR, AND WINDOW LOCATIONS.
5. FLOOR PLAN SHOWS FRAMING FOR THE FLOOR INDICATED & VERTICAL FRAMING (WALLS, OPENING, POSTS, COLUMNS) SUPPORTING THAT FLOOR.
6. SEE ARCHITECTURAL DRAWINGS FOR ALL RAILING DETAILS. REFER TO GENERAL NOTES FOR DESIGN CRITERIA.
7. REFER TO MANUFACTURER'S GUIDELINES FOR INSTALLATION OF STRAP TIES, HOLD DOWNS & OTHER CONNECTIONS.
8. ALL EXTERIOR LUMBER (POSTS, BEAMS, DECKING, ETC.) TO BE TREATED.
9. WOOD FLOOR TRUSSES TO BE DESIGNED BY OTHERS AND ARE SHOWN FOR THE INTENT OF SPAN DIRECTION AND LOAD PATH ONLY. REFER TO GENERAL NOTES FOR DESIGN CRITERIA.
10. TRUSS MANUFACTURER TO DESIGN & PROVIDE GIRDER TRUSSES AT ALL FLOOR OPENINGS & SPECIFY HANGERS FOR GIRDERS & SUPPORTED FRAMING.
11. REFER TO ARCHITECTURAL PLANS FOR STAIR DIMENSIONS AND REQUIREMENTS. REFER TO STRUCTURAL GENERAL NOTES FOR STAIR DESIGN CRITERIA.

1 S102 LEVEL 3 FRAMING PLAN
1/8" = 1'-0"

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MISSOURI CERTIFICATE OF AUTHORITY
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STATE OF MISSOURI
CELESTE KAY SPICKERT
NUMBER PE-2008002213
PROFESSIONAL ENGINEER

06/14/2024
Celeste Kay Spickert
PE-2008002213
Expires 12/31/2024

HOME2 SUITES BY HILTON

251 NE ALURA WAY
LEE'S SUMMIT, MISSOURI 64064

SHEET TITLE
LEVEL 3 FRAMING PLAN

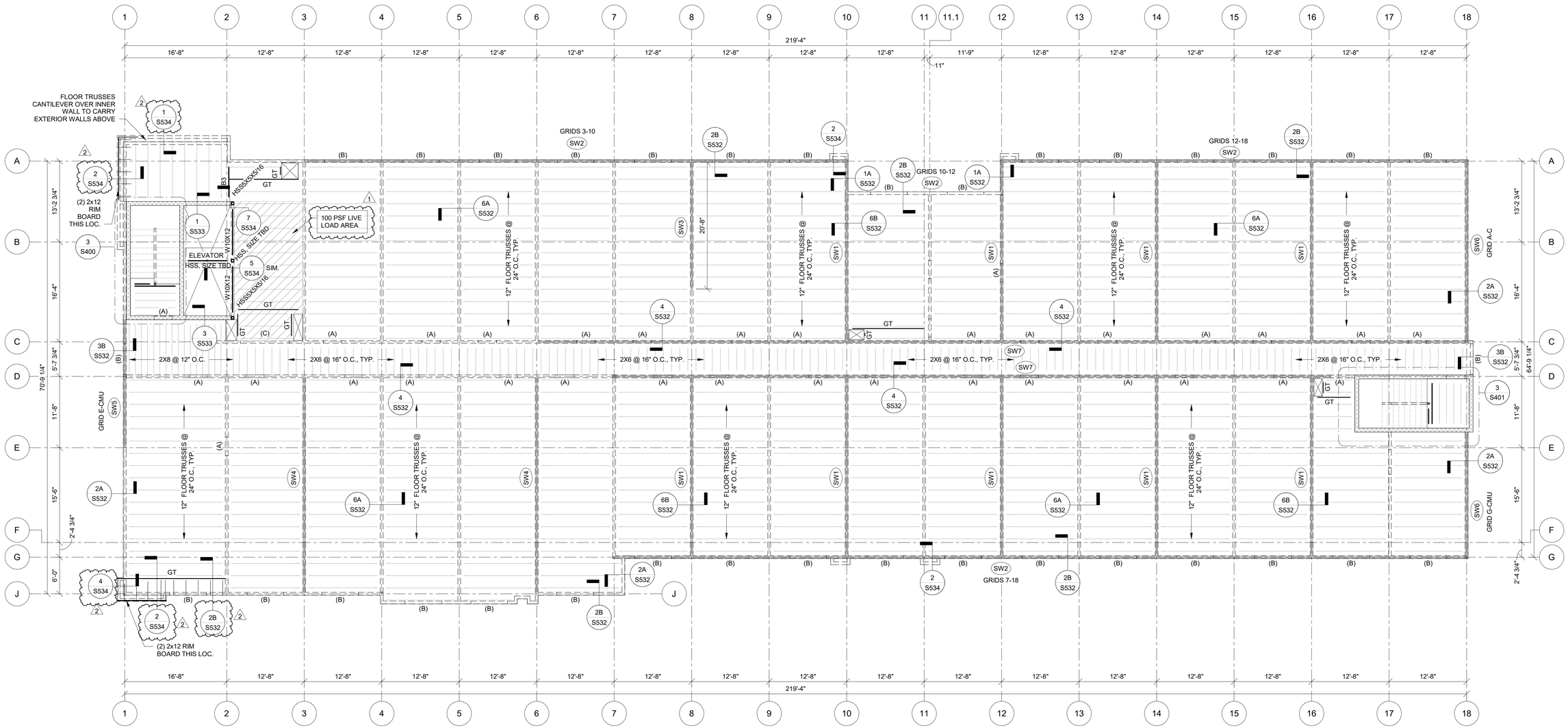
PROJECT NUMBER: 2023000333

SHEET NUMBER:

S102

FRAMING PLAN LEGEND

- CMU WALL
- BLOCKED DIAPHRAGM AREAS
- GT — GIRDER TRUSS
- SHEAR WALL



STRUCTURAL WALL SCHEDULE (WALLS SHOWN ON FRAMING PLAN ARE LEVEL BELOW)					
Location	Wall stud size and number of plies @ 16" o.c. U.N.O. on plan				SHEATHING & FASTENING U.N.O. (See Note 4)
	Level 1	Level 2	Level 3	Level 4	
EXTERIOR	(2) 2x6	(1) 2x6	(1) 2x6	(1) 2x6	15/32" Structural wood sheathing fastened w/ 10d nails. 6" o.c. edge fastening, 12" o.c. field fastening
BETWEEN UNITS	(2) 2x6	(1) 2x6	(1) 2x6	(1) 2x6	5/8" Gypsum wallboard fastened w/ 1 5/8" Type W screws 7" o.c. edge fastening, 7" o.c. field fastening
CORRIDOR	(1) 2x6	(1) 2x6	(1) 2x6	(1) 2x6	5/8" Gypsum wallboard fastened w/ 1 5/8" Type W screws 7" o.c. edge fastening, 7" o.c. field fastening

Notes:
1. Sill plates at foundation to be fastened w/ 5/8"Ø x 5-1/2" Hilti KH EZ @ 48" o.c. U.N.O.
2. Sill plate connections shall have a 3"x3" steel plate washer at each anchor bolt on shear walls only.
3. Top and bottom plates at all other levels to be fastened w/ (2) 16d nails @ 16" o.c. U.N.O.
4. Shear walls shall be sheathed and fastened per Shear Wall Schedule
5. Non-structural walls not shown, refer to architectural drawings.
6. All top plates are to be continuous. Splice per 3/S531

TYPICAL WALL HEADER SCHEDULE (WALLS SHOWN ON FRAMING PLAN ARE LEVEL BELOW)									
Header Type	Header	Kings/Jacks							
		Level 1		Level 2		Level 3		Level 4	
(A)	(3) 2x8	(2) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J
(B)	(3) 2x10	(2) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J
(C)	(3) 1 3/4"x11 7/8" LVL	(2) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J
(HA)	(3) 2x10	(3) 2x6 K	(2) 2x6 J						
(HB)	(3) 1 3/4"x11 7/8" LVL	(1) 2x6 K	(2) 2x6 J						

(X) = Header Type

Notes:
1. See 5/S531 for typical opening framing.
2. Coordinate all dimensions and elevations with architectural drawings.
3. Provide double sills below windows at openings greater than 6'-0" in length.
4. All LVL shall be stress class 2.0E-2500F.
5. All Glulam shall be stress class 24F-1.8E.

LEVEL 4 PLAN NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR SITE PLAN BENCHMARK ELEVATION. FOR REFERENCE ELEVATION, SEE BELOW (VERIFY ALL ELEVATIONS AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS.).
   - LEVEL 4 T.O. SHEATHING: 133'-9" U.N.O.
2. FLOOR SHEATHING IS TO BE 3/4" STRUCTURAL GRADE PLYWOOD. FASTEN TO FRAMING W/ 10d COMMON NAILS SPACED 6" O.C. AT EDGES, 12" O.C. WITHIN FIELD.
3. PLUMBING FIXTURES, SHAFTS, AND FLOOR DRAINS ARE TO BE COORDINATED W/ ARCH. & MEP DRAWINGS.
4. ALL EXTERIOR AND INTERIOR LOAD BEARING WALLS ARE PER WALL SCHEDULE ON SHEET S004. SEE ARCHITECTURAL FLOOR PLAN FOR NON-BEARING WALL, DOOR, AND WINDOW LOCATIONS.
5. FLOOR PLAN SHOWS FRAMING FOR THE FLOOR INDICATED & VERTICAL FRAMING (WALLS, OPENING, POSTS, COLUMNS) SUPPORTING THAT FLOOR.
6. SEE ARCHITECTURAL DRAWINGS FOR ALL RAILING DETAILS. REFER TO GENERAL NOTES FOR DESIGN CRITERIA.
7. REFER TO MANUFACTURER'S GUIDELINES FOR INSTALLATION OF STRAP TIES, HOLD DOWNS & OTHER CONNECTIONS.
8. ALL EXTERIOR LUMBER (POSTS, BEAMS, DECKING, ETC.) TO BE TREATED.
9. WOOD FLOOR TRUSSES TO BE DESIGNED BY OTHERS AND ARE SHOWN FOR THE INTENT OF SPAN DIRECTION AND LOAD PATH ONLY. REFER TO GENERAL NOTES FOR DESIGN CRITERIA.
10. TRUSS MANUFACTURER TO DESIGN & PROVIDE GIRDER TRUSSES AT ALL FLOOR OPENINGS & SPECIFY HANGERS FOR GIRDERS & SUPPORTED FRAMING.
11. REFER TO ARCHITECTURAL PLANS FOR STAIR DIMENSIONS AND REQUIREMENTS. REFER TO STRUCTURAL GENERAL NOTES FOR STAIR DESIGN CRITERIA.

1 / S103 LEVEL 4 FRAMING PLAN
1/8" = 1'-0"

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CELESTE KAY SPICKERT
NUMBER PE-2008002213
PROFESSIONAL ENGINEER

06/14/2024
Celeste Kay Spickert
PE-2008002213
Expires 12/31/2024

HOME2 SUITES BY HILTON

251 NE ALURA WAY
LEE'S SUMMIT, MISSOURI 64064

SHEET TITLE
LEVEL 4 FRAMING PLAN

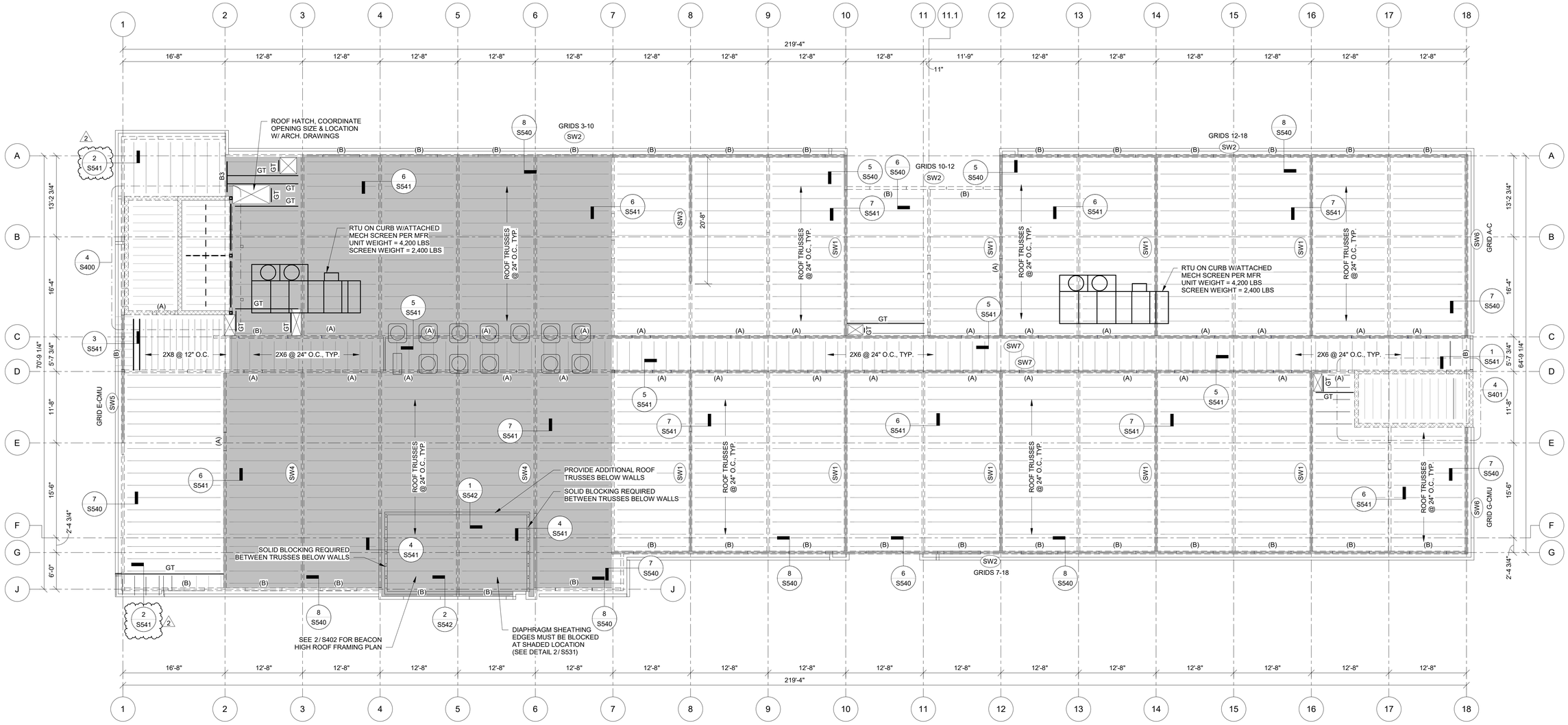
PROJECT NUMBER: 2023000333

SHEET NUMBER:

S103

FRAMING PLAN LEGEND

- CMU WALL
- BLOCKED DIAPHRAGM AREAS
- GT — GIRDER TRUSS
- SHEAR WALL



1 S104 ROOF FRAMING PLAN
1/8" = 1'-0"

STRUCTURAL WALL SCHEDULE (WALLS SHOWN ON FRAMING PLAN ARE LEVEL BELOW)					
Location	Wall stud size and number of plies @ 16" o.c. U.N.O. on plan				SHEATHING & FASTENING U.N.O. (See Note 4)
	Level 1	Level 2	Level 3	Level 4	
EXTERIOR	(2) 2x6	(1) 2x6	(1) 2x6	(1) 2x6	15/32" Structural wood sheathing fastened w/ 10d nails. 6" o.c. edge fastening, 12" o.c. field fastening
BETWEEN UNITS	(2) 2x6	(1) 2x6	(1) 2x6	(1) 2x6	5/8" Gypsum wallboard fastened w/ 1 5/8" Type W screws 7" o.c. edge fastening, 7" o.c. field fastening
CORRIDOR	(1) 2x6	(1) 2x6	(1) 2x6	(1) 2x6	5/8" Gypsum wallboard fastened w/ 1 5/8" Type W screws 7" o.c. edge fastening, 7" o.c. field fastening

Notes:
1. Sill plates at foundation to be fastened w/ 5/8"Ø x 5-1/2" Hilti KH EZ @ 48" o.c. U.N.O.
2. Sill plate connections shall have a 3"x3" steel plate washer at each anchor bolt on shear walls only.
3. Top and bottom plates at all other levels to be fastened w/ (2) 16d nails @ 16" o.c. U.N.O.
4. Shear walls shall be sheathed and fastened per Shear Wall Schedule
5. Non-structural walls not shown, refer to architectural drawings.
6. All top plates are to be continuous. Splice per 3/S531

TYPICAL WALL HEADER SCHEDULE (WALLS SHOWN ON FRAMING PLAN ARE LEVEL BELOW)										
Header Type	Header	Kings/Jacks								
		Level 1		Level 2		Level 3		Level 4		
(A)	(3) 2x8	(2) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J	
(B)	(3) 2x10	(2) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J	
(C)	(3) 1 3/4"x11 7/8" LVL	(2) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J	
(HA)	(3) 2x10	(3) 2x6 K	(2) 2x6 J							
(HB)	(3) 1 3/4"x11 7/8" LVL	(1) 2x6 K	(2) 2x6 J							

(X) = Header Type

Notes:
1. See 5/S531 for typical opening framing.
2. Coordinate all dimensions and elevations with architectural drawings.
3. Provide double sills below windows at openings greater than 6'-0" in length.
4. All LVL shall be stress class 2.0E-2500F.
5. All Glulam shall be stress class 24F-1.8E.

ROOF PLAN NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR SITE PLAN BENCHMARK ELEVATION. FOR REFERENCE ELEVATION, SEE BELOW (VERIFY ALL ELEVATIONS AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS.)
   - ROOF TRUSS BEARING 142'-10"
   - T.O. PARAPET 147'-8"
   - T.O. HIGH PARAPET 154'-9"
2. ROOF SHEATHING: 3/4" STRUCTURAL GRADE PLYWOOD FASTENED TO FRAMING W/ 10d COMMON NAILS SPACED 6" O.C. AT EDGES, 12" O.C. WITHIN FIELD. SHEATHING IS TO BE TOPPED WITH SLOPED RIGID INSULATION PER ARCH.
3. RTU PENETRATIONS TO BE COORDINATED W/ ARCH. & MEP DRAWINGS.
4. PARAPET FRAMING TO BE PART OF THE ROOF TRUSSES (DESIGN PER MANUFACTURER).
5. REFER TO MANUFACTURER'S GUIDELINES FOR INSTALLATION OF STRAP TIES, HOLD DOWNS & OTHER CONNECTIONS.
6. ALL EXTERIOR LUMBER (POSTS, BEAMS, DECKING, ETC.) TO BE TREATED.
7. WOOD ROOF TRUSSES (DESIGN PER MANUFACTURER) ARE SHOWN FOR THE INTENT OF SPAN DIRECTION AND LOAD PATH ONLY. REFER TO GENERAL NOTES FOR DESIGN CRITERIA.
8. TRUSS MANUFACTURER TO DESIGN & PROVIDE GIRDER TRUSSES AT ALL FLOOR OPENINGS & SPECIFY HANGERS FOR GIRDERS & SUPPORTED FRAMING.
9. VERIFY SPECIFIED ELEVATOR HOIST BEAM AND SUPPORTING FRAMING W/ ELEVATOR MANUFACTURER.
10. REFER TO MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION OF STRAP TIES, HOLD DOWNS, & OTHER CONNECTIONS.

PRINTS ISSUED
04/17/2024 - CITY SUBMISSION

REVISIONS:
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NUMBER PE-2008002213
PROFESSIONAL ENGINEER

06/14/2024
Celeste Kay Spickert
PE-2008002213
Expires 12/31/2024

HOME2 SUITES BY HILTON

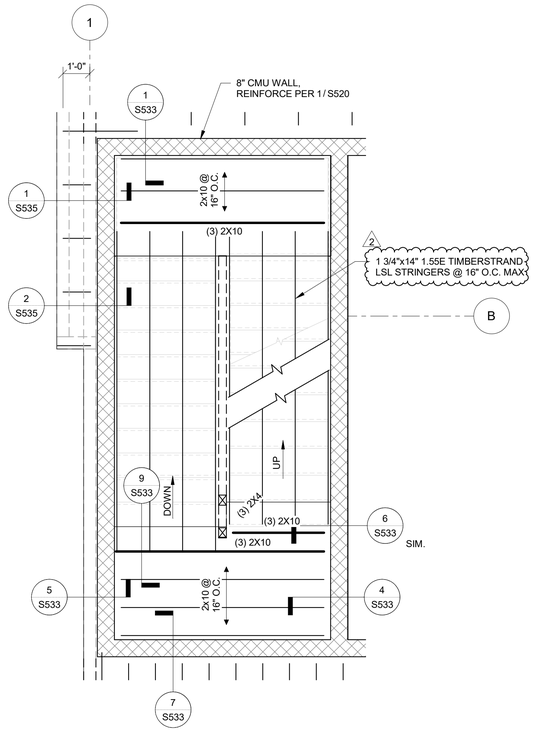
251 NE ALURA WAY
LEE'S SUMMIT, MISSOURI 64064

SHEET TITLE
ROOF FRAMING PLAN

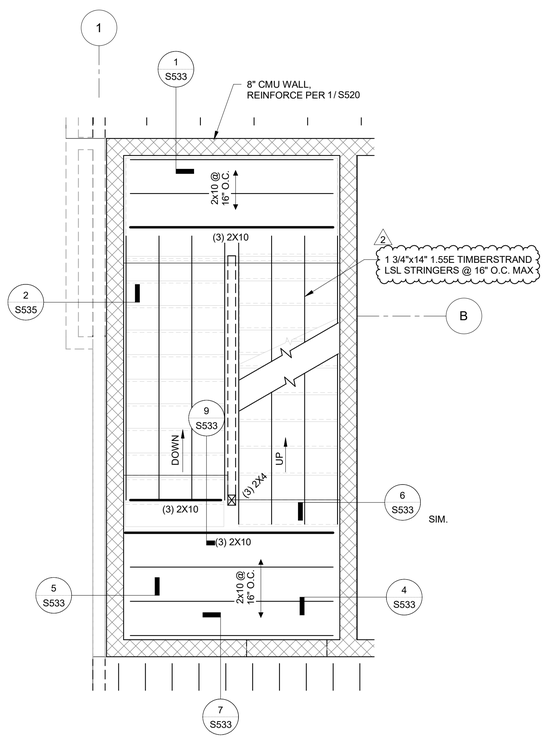
PROJECT NUMBER: 2023000333

SHEET NUMBER:

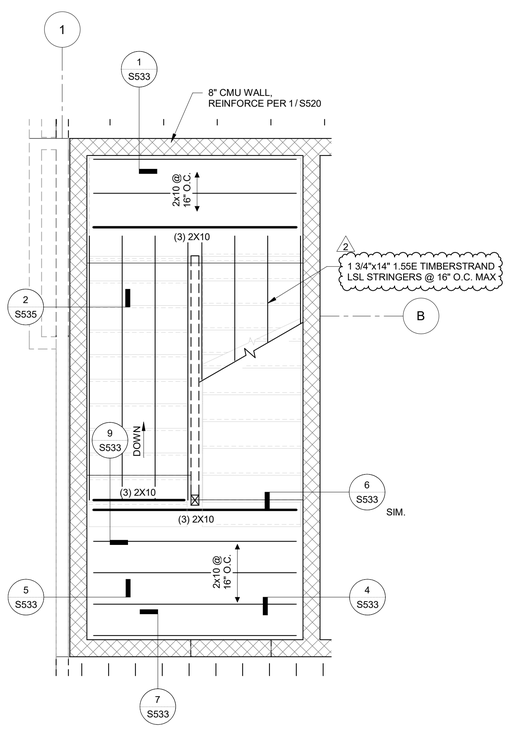
S104



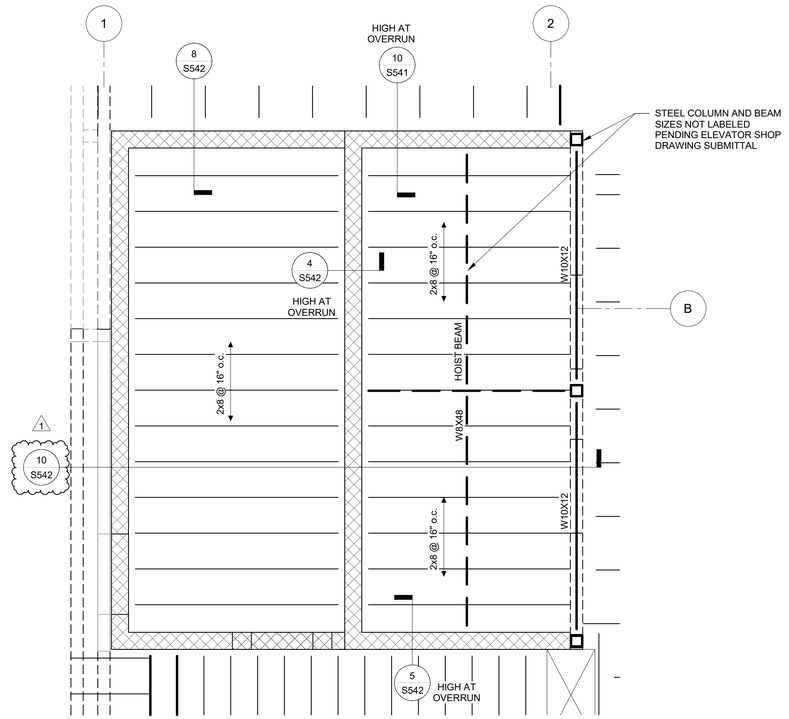
1 S400 LEVEL 2 FRAMING PLAN - WEST STAIR TOWER
3/8" = 1'-0"



2 S400 LEVEL 3 FRAMING PLAN - WEST STAIR TOWER
3/8" = 1'-0"



3 S400 LEVEL 4 FRAMING PLAN - WEST STAIR TOWER
3/8" = 1'-0"



4 S400 ROOF FRAMING PLAN - WEST STAIR TOWER
3/8" = 1'-0"

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MISSOURI CERTIFICATE OF AUTHORITY
NO. E-2006023253
EXPIRES: DECEMBER 31, 2024

06/14/2024
Celeste Kay Spickert
PE-2008002213
Expires 12/31/2024

HOME2 SUITES BY HILTON

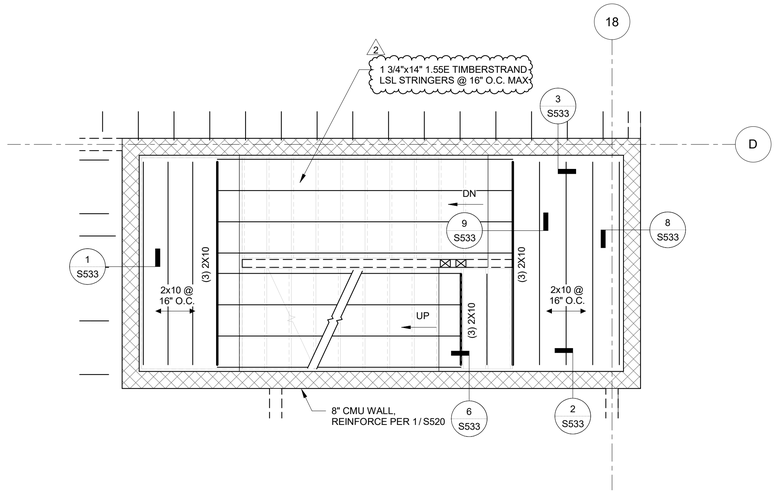
251 NE ALURA WAY
LEE'S SUMMIT, MISSOURI 64064

SHEET TITLE
ENLARGED VIEWS

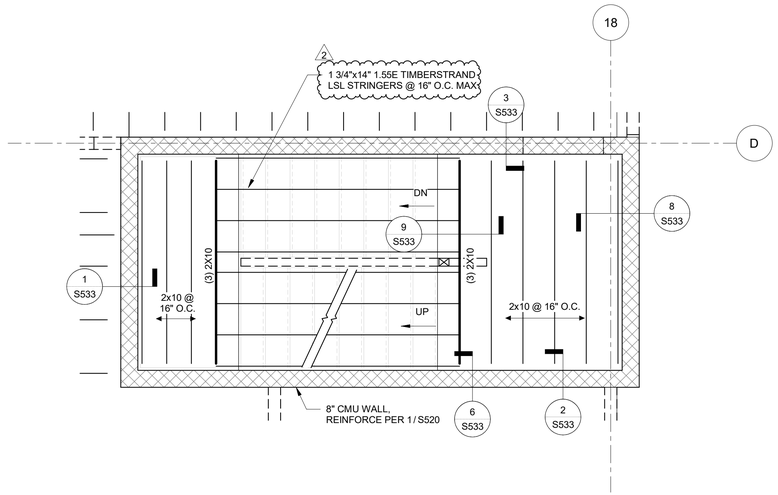
PROJECT NUMBER: 2023000333

SHEET NUMBER:

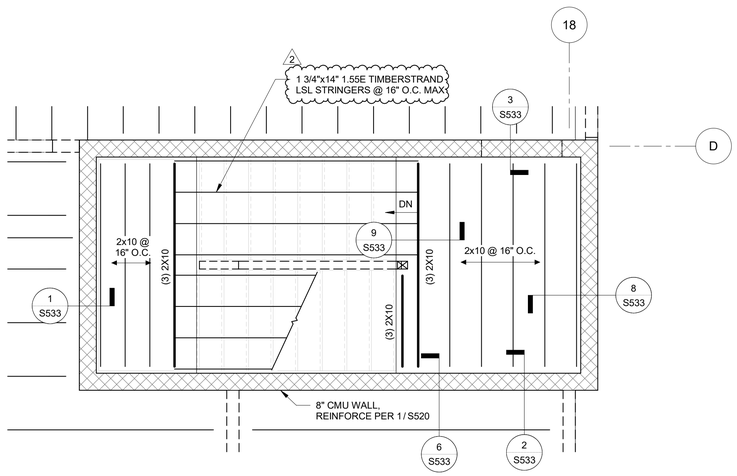
S400



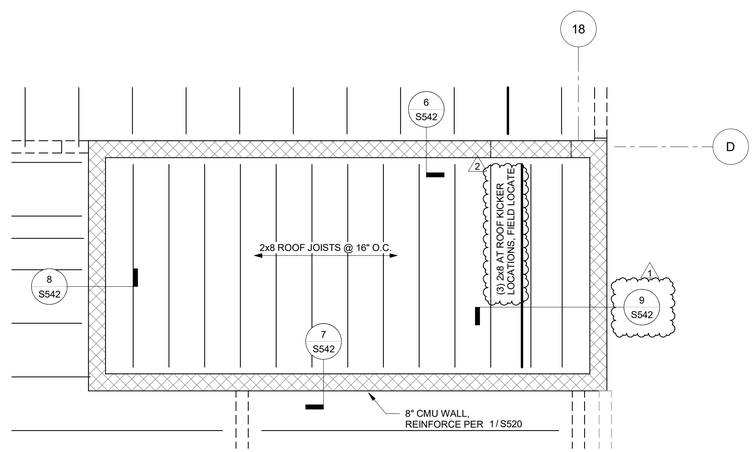
1 S401 LEVEL 2 FRAMING PLAN - EAST STAIR TOWER
3/8" = 1'-0"



2 S401 LEVEL 3 FRAMING PLAN - EAST STAIR TOWER
3/8" = 1'-0"



3 S401 LEVEL 4 FRAMING PLAN - EAST STAIR TOWER
3/8" = 1'-0"



4 S401 ROOF FRAMING PLAN - EAST STAIR TOWER
3/8" = 1'-0"

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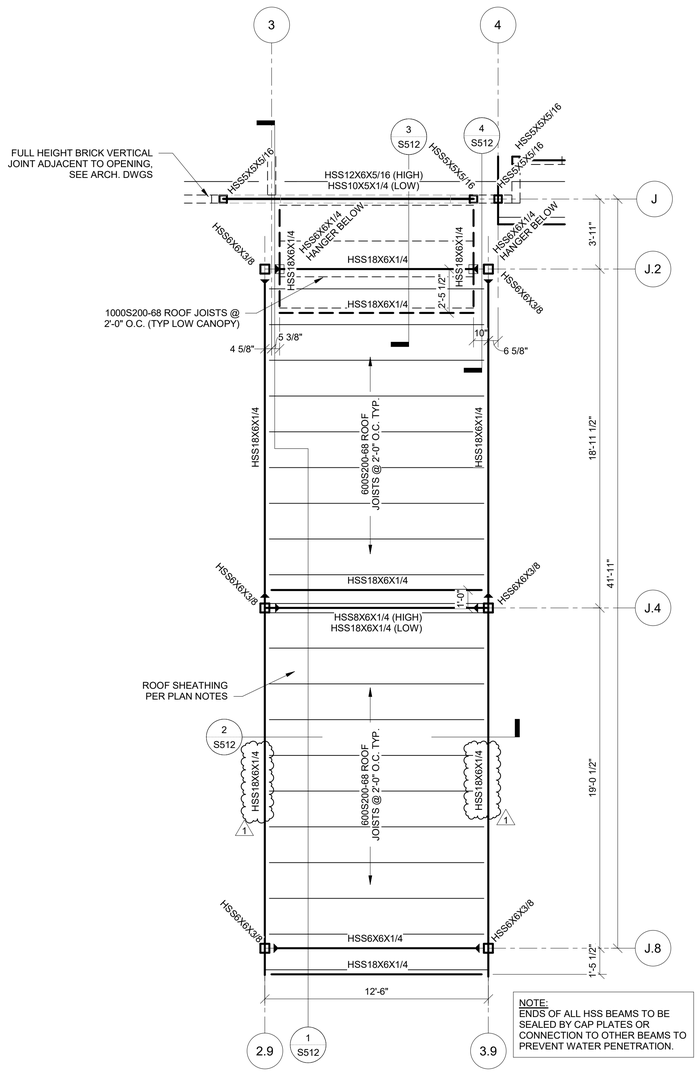
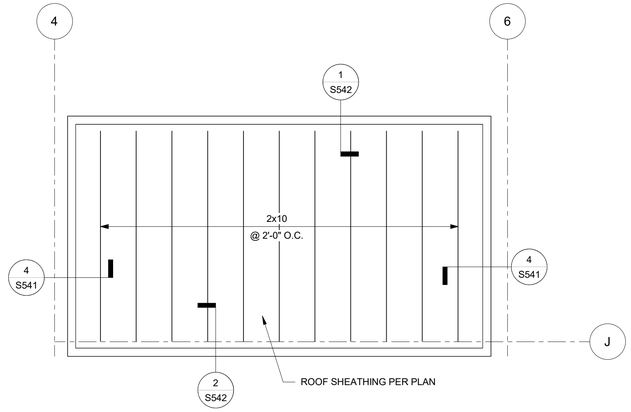
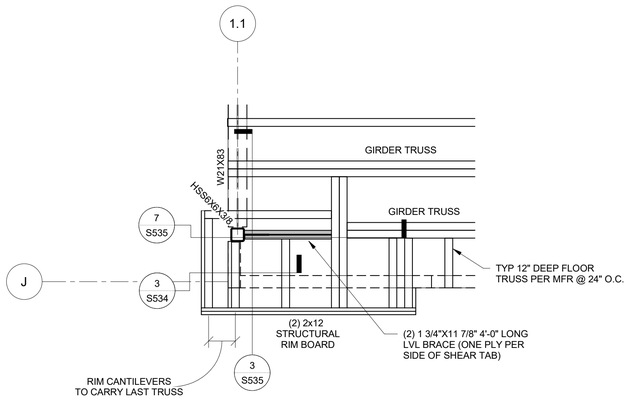


NOTE:
ENDS OF ALL HSS BEAMS TO BE SEALED BY CAP PLATES OR CONNECTION TO OTHER BEAMS TO PREVENT WATER PENETRATION.

1 S402 LEVEL 2 FRAMING PLAN - CANOPY PLAN
1/4" = 1'-0"



2 S402 BEACON ROOF FRAMING PLAN
1/4" = 1'-0"



2

3 S402 LEVEL 2 FRAMING PLAN - ENLARGED
3/8" = 1'-0"

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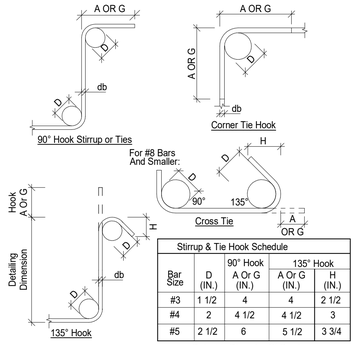
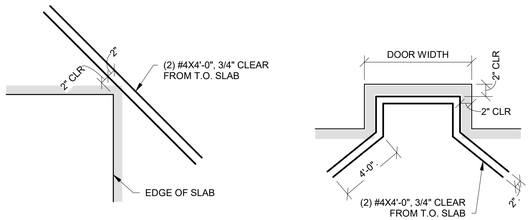


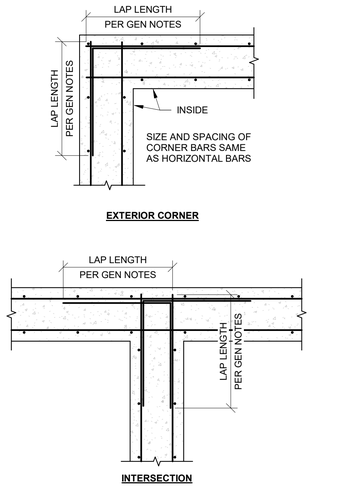
Stirrup & Tie Hook Schedule					
		90° Hook		135° Hook	
Bar Size	D (IN.)	A Or G (IN.)	A Or G (IN.)	H (IN.)	
#3	1 1/2	4	4	2 1/2	
#4	2	4 1/2	4 1/2	3	
#5	2 1/2	6	5 1/2	3 3/4	

D=Inside Diameter Of Bend
#3 THRU #8 D = 4db
#9 THRU #11 D = 5db
#14 THRU #18 D = 6db

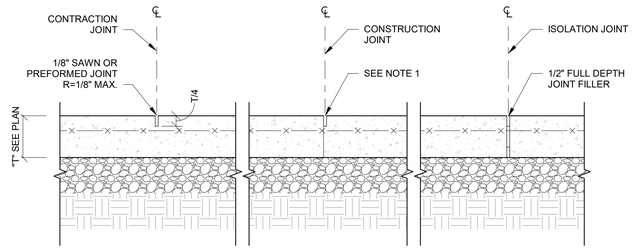
1 S501 BAR BENDING DETAIL
NTS



2 S501 TYPICAL ADDITIONAL REINFORCING IN SLABS AT RE-ENTRANT CORNERS & THRESHOLDS
NTS

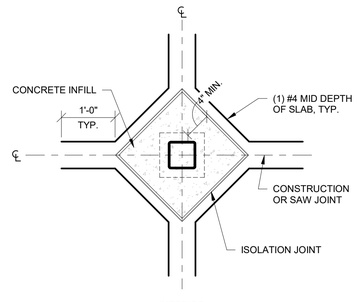


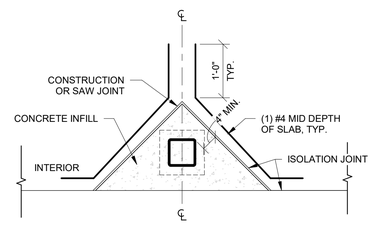
3 S501 TYPICAL FOUNDATION WALL CORNER BAR DETAILS
NTS



NOTES:
1. LOCATE CONSTRUCTION JOINTS AT SAW JOINT LOCATIONS. MATCH SAW JOINT PROFILE. ALL CONSTRUCTION JOINT LOCATIONS TO BE REVIEWED AND APPROVED BY ER PRIOR TO CONSTRUCTION.
2. MAXIMUM SPACING BETWEEN SAW JOINTS = 15'-0" FOR 6" SLABS & 10'-0" FOR 4" SLABS. SEE PLAN FOR LOCATIONS.
3. CONTINUE SLAB ON GRADE REINFORCING, UNO. PROVIDE TENSION LAP SPLICE AS REQUIRED.
4. DO NOT PLACE DOWELS WITHIN 12" OF A SLAB CORNER.

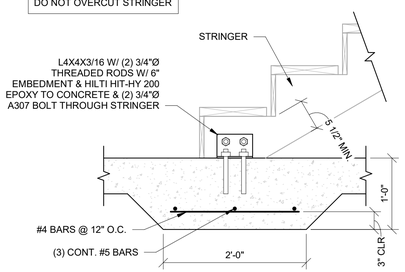
4 S501 TYPICAL SLAB ON GRADE JOINTS
NTS





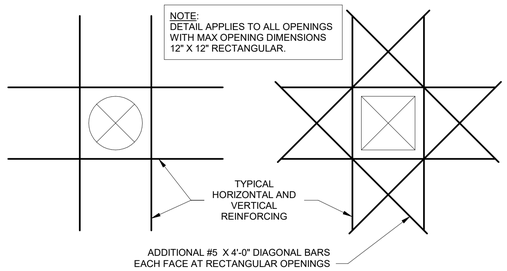
5 S501 TYPICAL SLAB ON GRADE ISOLATION JOINT AT COLUMNS
NTS

NOTE:
DO NOT OVERCUT STRINGER

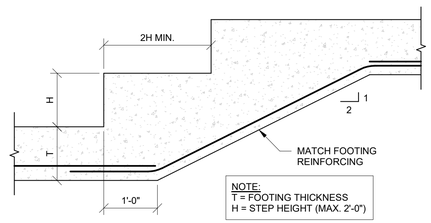


6 S501 TYPICAL STAIR STRINGER BASE CONNECTION TO THICKENED SLAB
NTS

NOTE:
DETAIL APPLIES TO ALL OPENINGS
WITH MAX OPENING DIMENSIONS
12" X 12" RECTANGULAR.

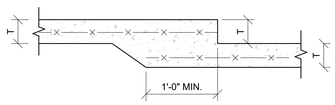


7 S501 REINFORCING AT FOUNDATION WALL OPENING
NTS



NOTE:
T = FOOTING THICKNESS
H = STEP HEIGHT (MAX. 2'-0")

8 S501 STEPPED FOOTING DETAIL
3/4" = 1'-0"



9 S501 DEPRESSED SLAB SECTION
1" = 1'-0"

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HOME2 SUITES BY HILTON

251 NE ALURA WAY
LEE'S SUMMIT, MISSOURI 64064

SHEET TITLE
TYPICAL FOUNDATION DETAILS

PROJECT NUMBER: 2023000333

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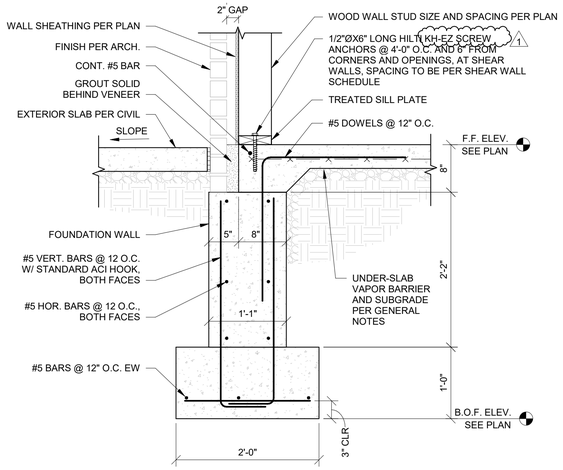
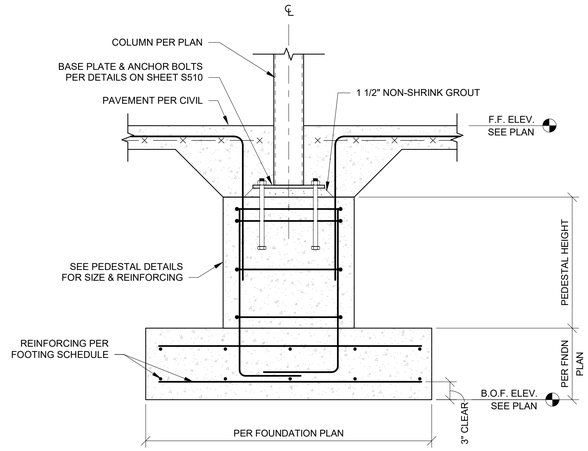
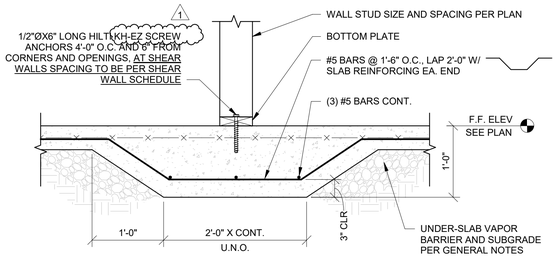


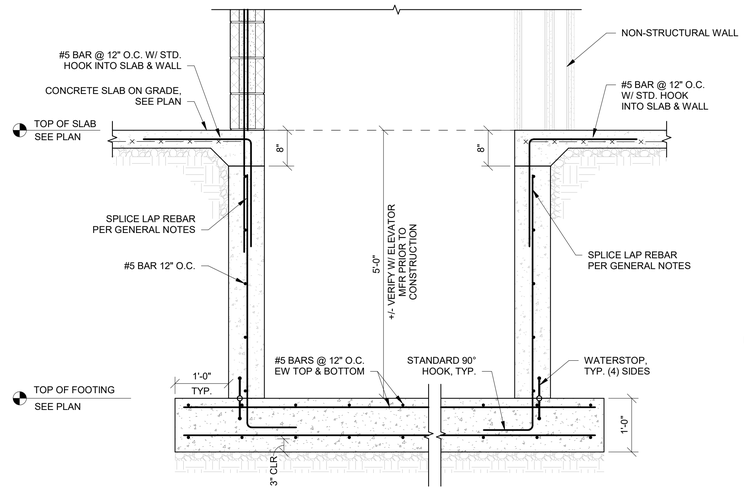
1 S502 SECTION AT FOUNDATION
1" = 1'-0"



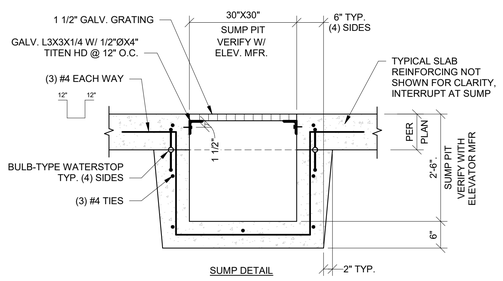
2 S502 STEEL COLUMN AT PEDESTAL
1" = 1'-0"



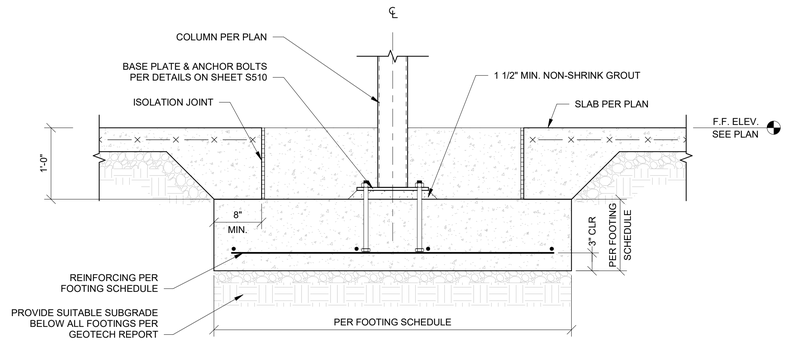
3 S502 INTERIOR BEARING WALL AT THICKENED SLAB
1" = 1'-0"

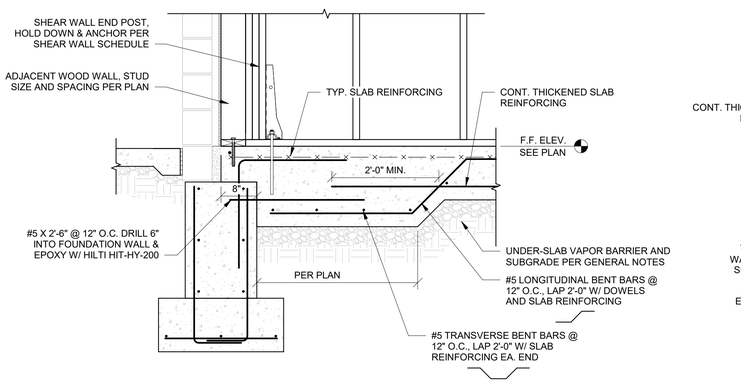


4 S502 ELEVATOR PIT DETAIL
3/4" = 1'-0"

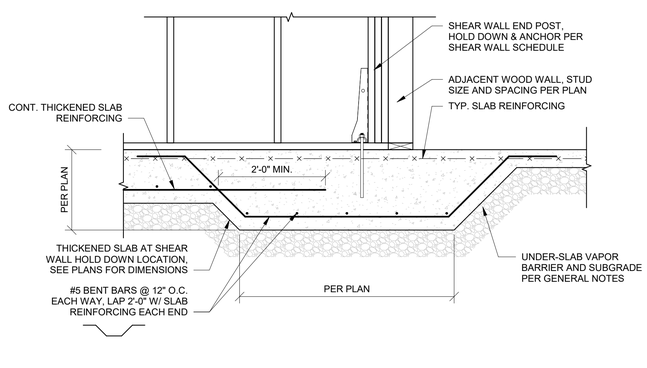


5 S502 TYPICAL INTERIOR COLUMN FOOTING
1" = 1'-0"

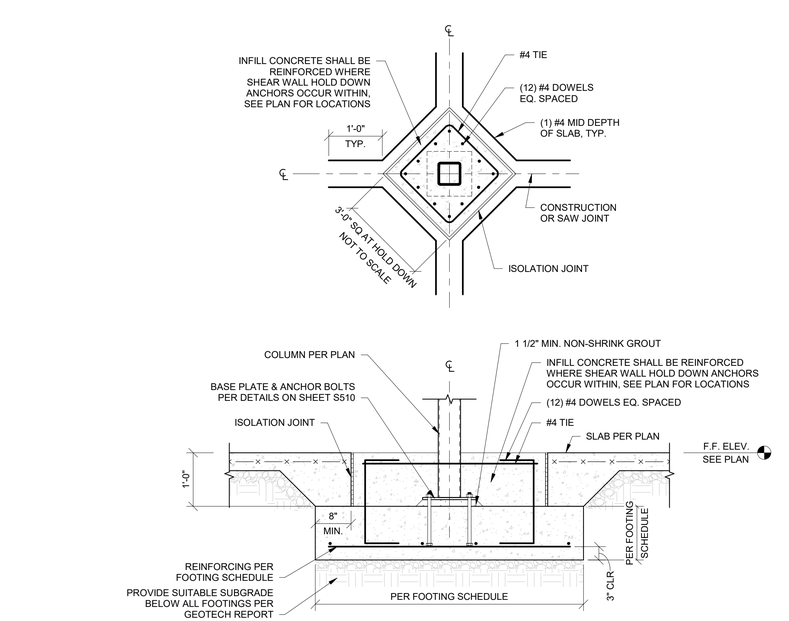




6 S502 THICKENED SLAB AT SHEAR WALL HOLD DOWN - EXTERIOR
3/4" = 1'-0"



7 S502 THICKENED SLAB AT SHEAR WALL HOLD DOWN - INTERIOR
3/4" = 1'-0"



8 S502 SLAB ON GRADE ISOLATION JOINT AT COLUMN/SHEAR WALL
3/4" = 1'-0"

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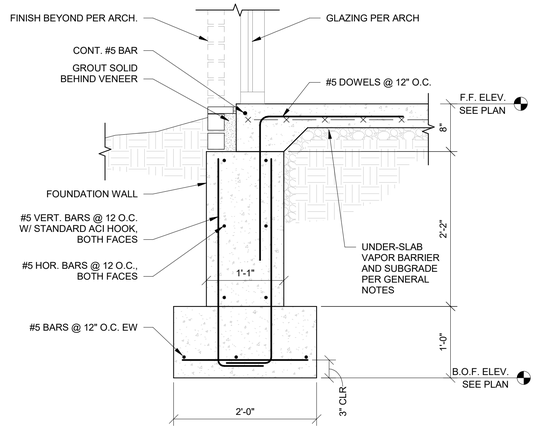
SHEET TITLE
FOUNDATION DETAILS

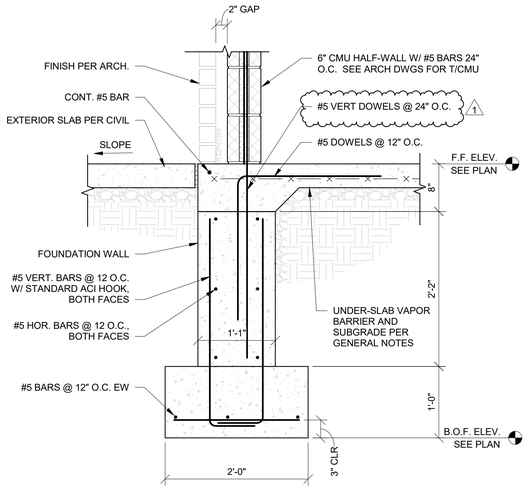
PROJECT NUMBER: 2023000333

SHEET NUMBER:

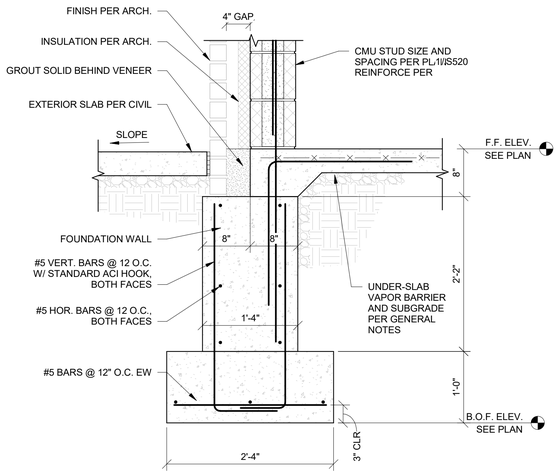
S502



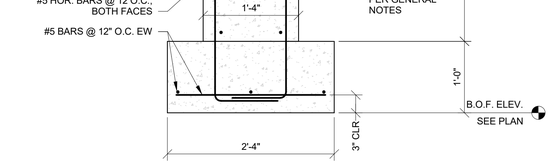
1 S503 FOUNDATION SECTION AT STOREFRONT - NO SIDEWALK
1" = 1'-0"



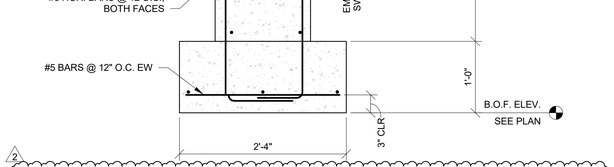
2 S503 SECTION AT EXTERIOR PATIO FOUNDATION WITH CMU HALF-WALL
1" = 1'-0"



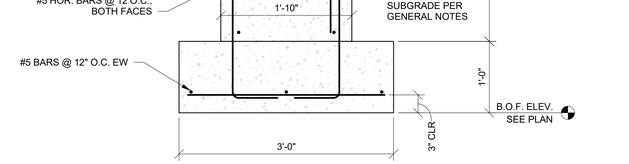
3 S503 FOUNDATION SECTION AT CMU WALL
1" = 1'-0"



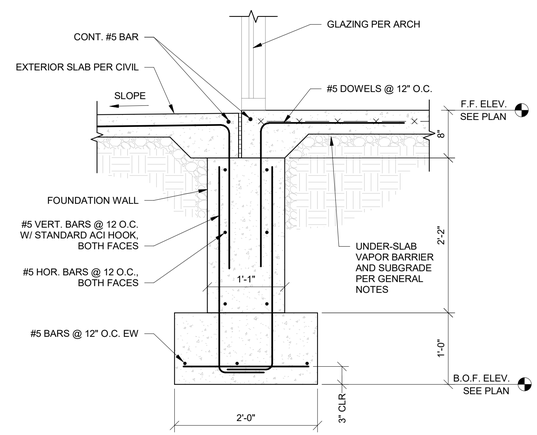
4 S503 TYPICAL SECTION AT EXTERIOR FOUNDATION
1" = 1'-0"



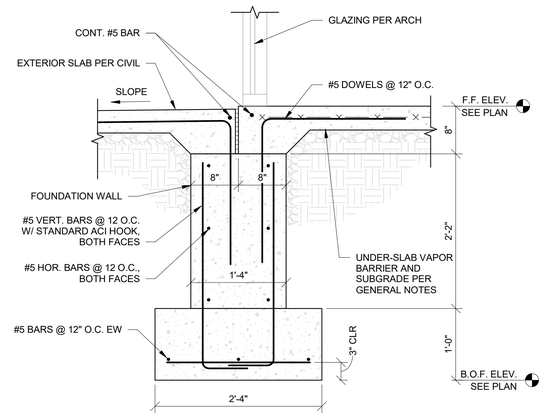
2
5 S503 SECTION AT SHEAR WALL HOLD DOWN
1" = 1'-0"



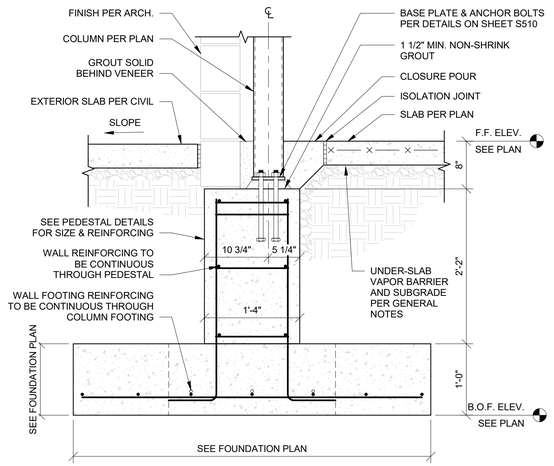
6 S503 EXTERIOR FOUNDATION AT WEST STAIR TOWER
1" = 1'-0"



7A S503 FOUNDATION SECTION AT STOREFRONT
1" = 1'-0"



7B S503 FOUNDATION SECTION AT STOREFRONT
1" = 1'-0"



8 S503 SECTION AT COLUMN PEDESTAL
1" = 1'-0"

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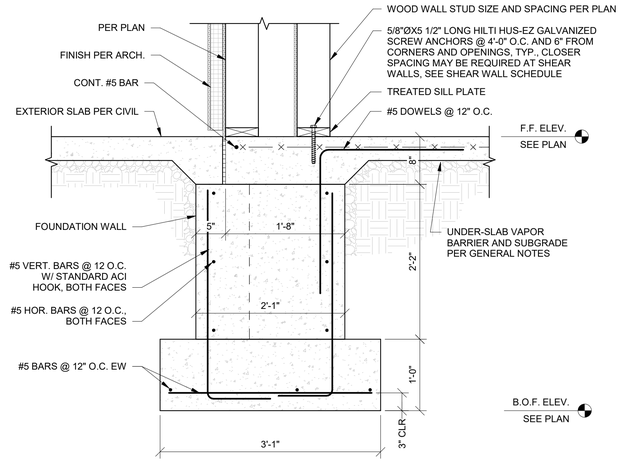
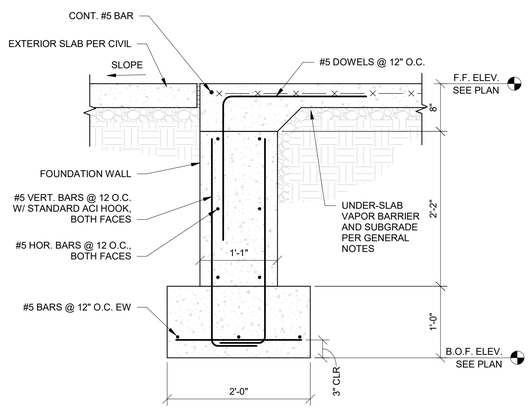
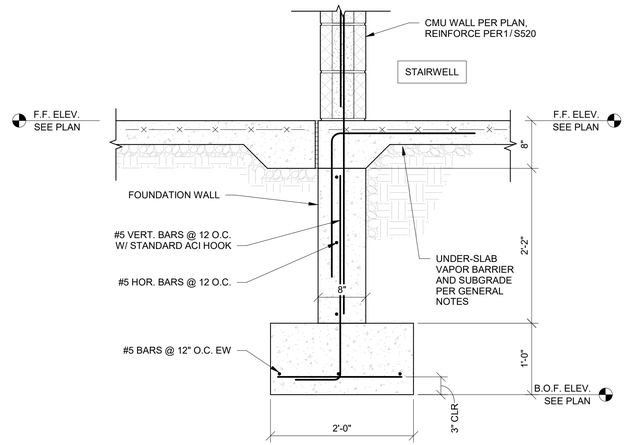


1 S504 OVERFRAMED WALL AT FOUNDATION
1" = 1'-0"



2 S504 SECTION AT EXTERIOR PATIO FOUNDATION
1" = 1'-0"



3 S504 FOUNDATION SECTION AT CMU WALL
1" = 1'-0"

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MISSOURI CERTIFICATE OF AUTHORITY
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EXPIRES: DECEMBER 31, 2024

04/17/2024

HOME2 SUITES BY HILTON

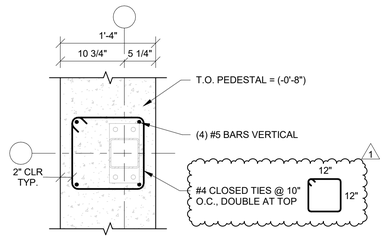
251 NE ALURA WAY
LEE'S SUMMIT, MISSOURI 64064

SHEET TITLE
FOUNDATION DETAILS

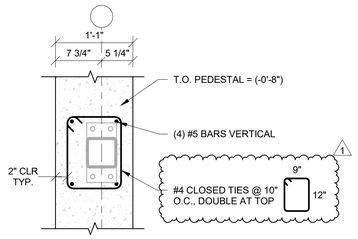
PROJECT NUMBER: 2023000333

SHEET NUMBER:

S504



1 S505 PEDESTAL P1
1" = 1'-0"



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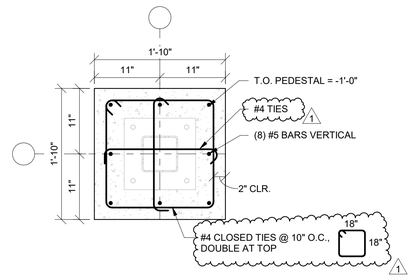
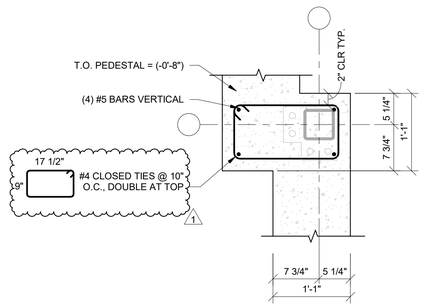


3 S505 PEDESTAL P3
1" = 1'-0"



4 S505 PEDESTAL P4
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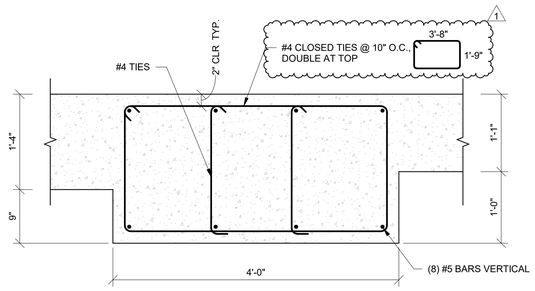

5 S505 PEDESTAL P5
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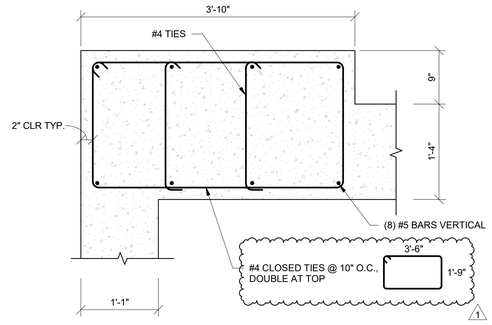
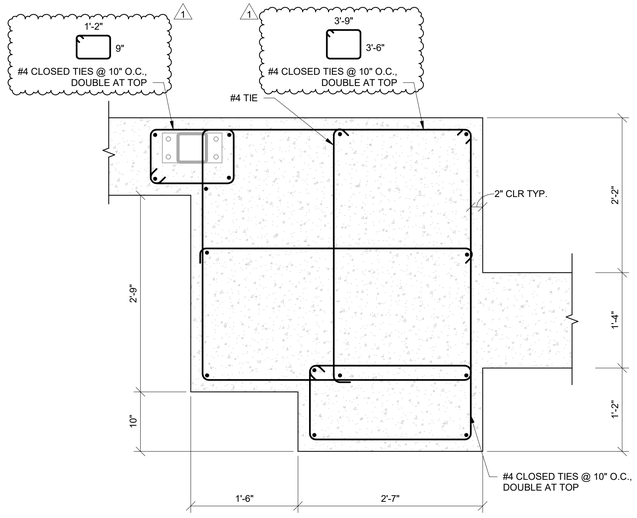
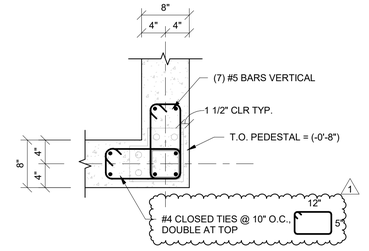


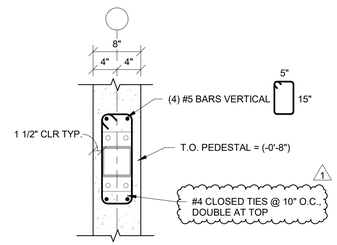
6 S505 PEDESTAL P6
1" = 1'-0"



7 S505 PEDESTAL P7
1" = 1'-0"



8 S505 PEDESTAL P8
1" = 1'-0"



9 S505 PEDESTAL P9
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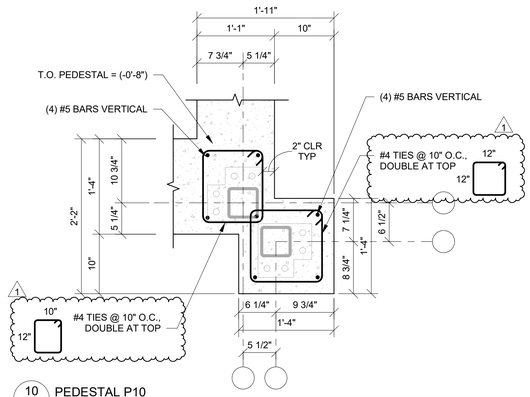

10 S505 PEDESTAL P10
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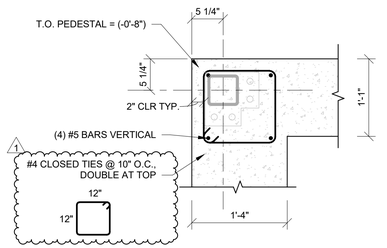

11 S505 PEDESTAL P11
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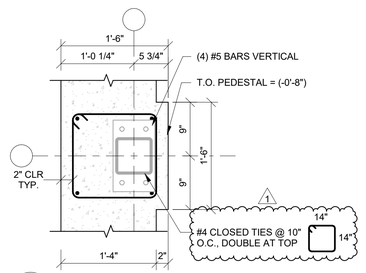

12 S505 PEDESTAL 12
1" = 1'-0"

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STATE OF MISSOURI
CELESTE KAY SPICKERT
NUMBER PE-2008022213
PROFESSIONAL ENGINEER

05/17/2024

HOME2 SUITES BY HILTON

251 NE ALURA WAY
LEE'S SUMMIT, MISSOURI 64064

SHEET TITLE
FOUNDATION PEDESTAL DETAILS

PROJECT NUMBER: 2023000333

SHEET NUMBER:

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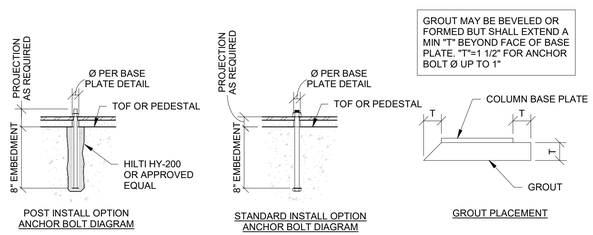
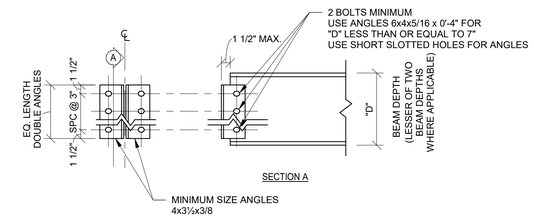
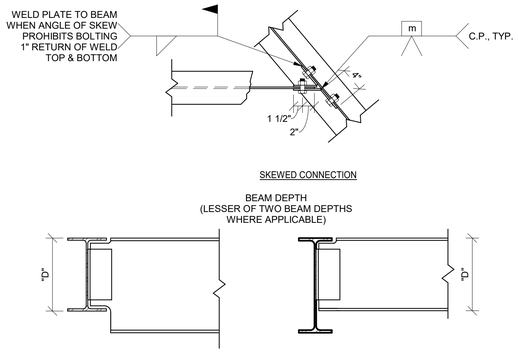
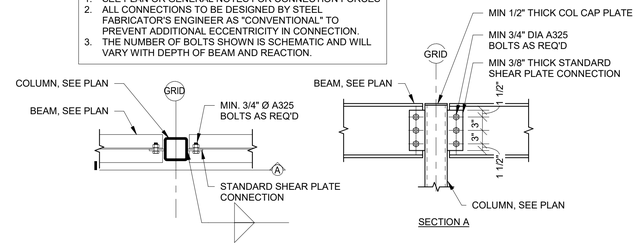


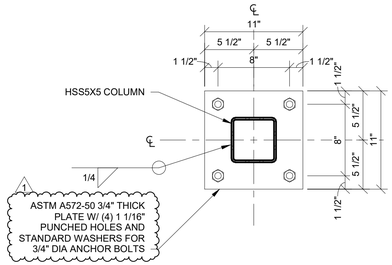




NOTES:
1. SEE PLAN OR GENERAL NOTES FOR CONNECTION FORCES
2. ALL CONNECTIONS TO BE DESIGNED BY STEEL FABRICATOR'S ENGINEER AS "CONVENTIONAL" TO PREVENT ADDITIONAL ECCENTRICITY IN CONNECTION.
3. THE NUMBER OF BOLTS SHOWN IS SCHEMATIC AND WILL VARY WITH DEPTH OF BEAM AND REACTION.

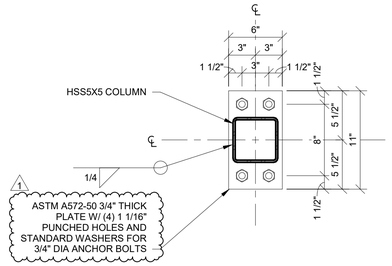


1 S510 COLUMN ANCHOR BOLT DETAILS
3/4" = 1'-0"

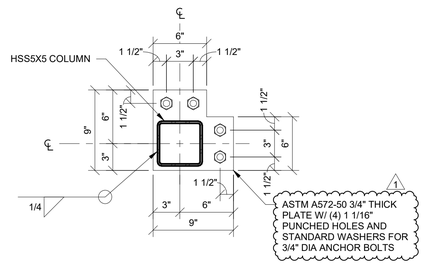


4 S510 COLUMN BASE PLATE - BP1
1 1/2" = 1'-0"

2 S510 BEAM TO BEAM CONNECTION
1" = 1'-0"

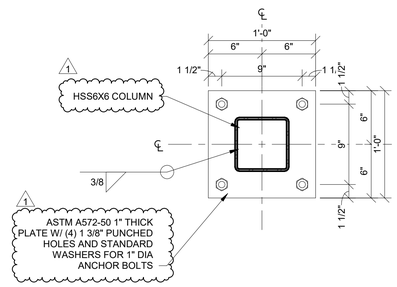


5 S510 COLUMN BASE PLATE - BP2
1 1/2" = 1'-0"

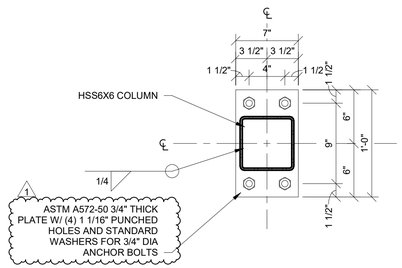


6 S510 COLUMN BASE PLATE - BP3
1 1/2" = 1'-0"

3 S510 TYPICAL BEAM TO COLUMN SHEAR CONNECTION
3/4" = 1'-0"



7 S510 COLUMN BASE PLATE - BP4
1 1/2" = 1'-0"



8 S510 COLUMN BASE PLATE - BP5
1 1/2" = 1'-0"

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HOME2 SUITES BY HILTON

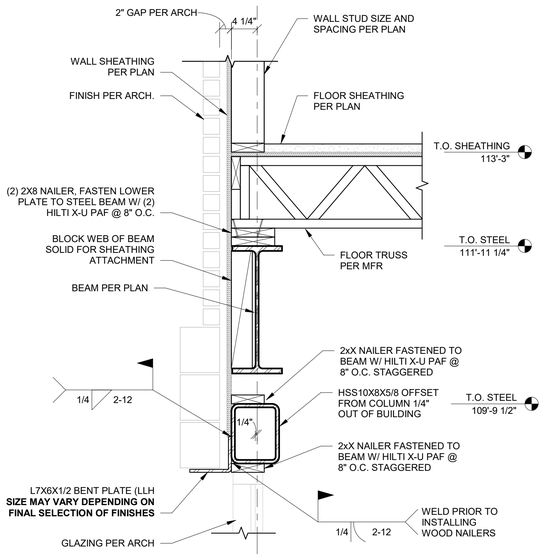
251 NE ALURA WAY
LEE'S SUMMIT, MISSOURI 64064

SHEET TITLE
STEEL DETAILS

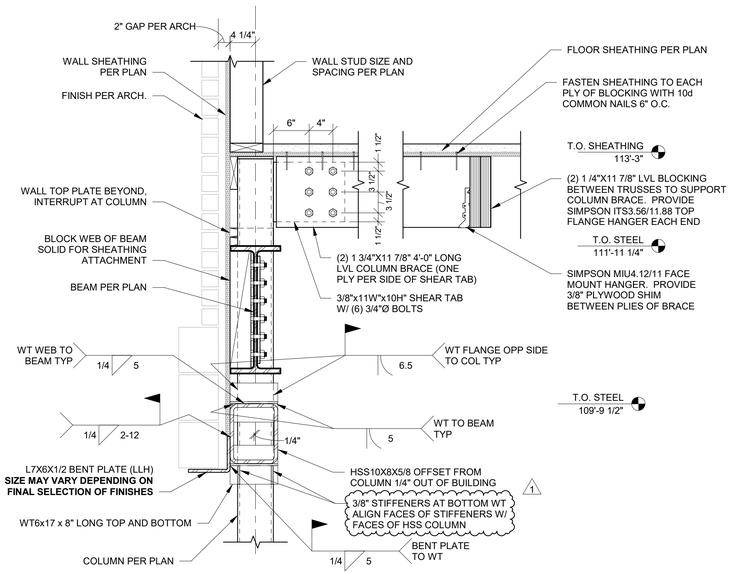
PROJECT NUMBER: 2023000333

SHEET NUMBER:

S510



1A S511 FLOOR TRUSS BEARING AT BEAM AT EXTERIOR
1" = 1'-0"



1B S511 STEEL COLUMN BRACING AT LEVEL 1
1" = 1'-0"

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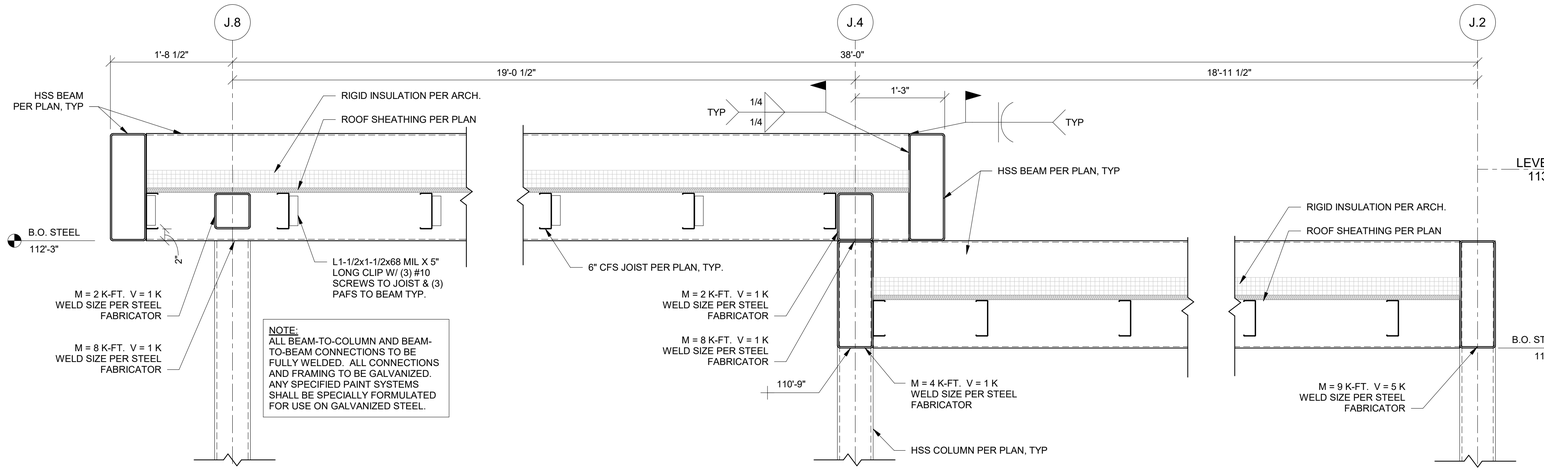
LEE'S SUMMIT, MISSOURI 64064

SHEET TITLE
STEEL DETAILS

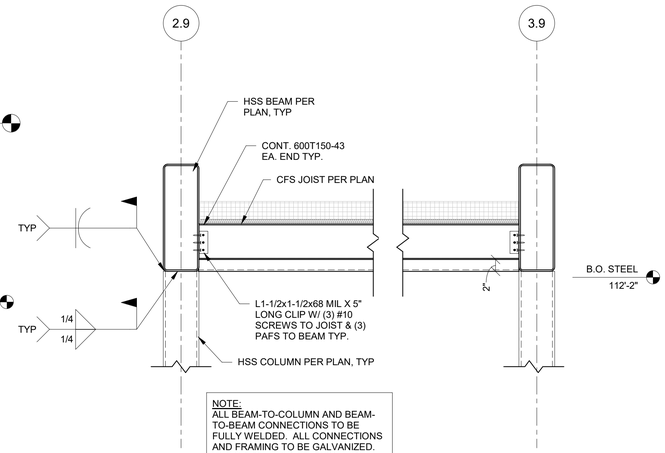
PROJECT NUMBER: 2023000333

SHEET NUMBER:

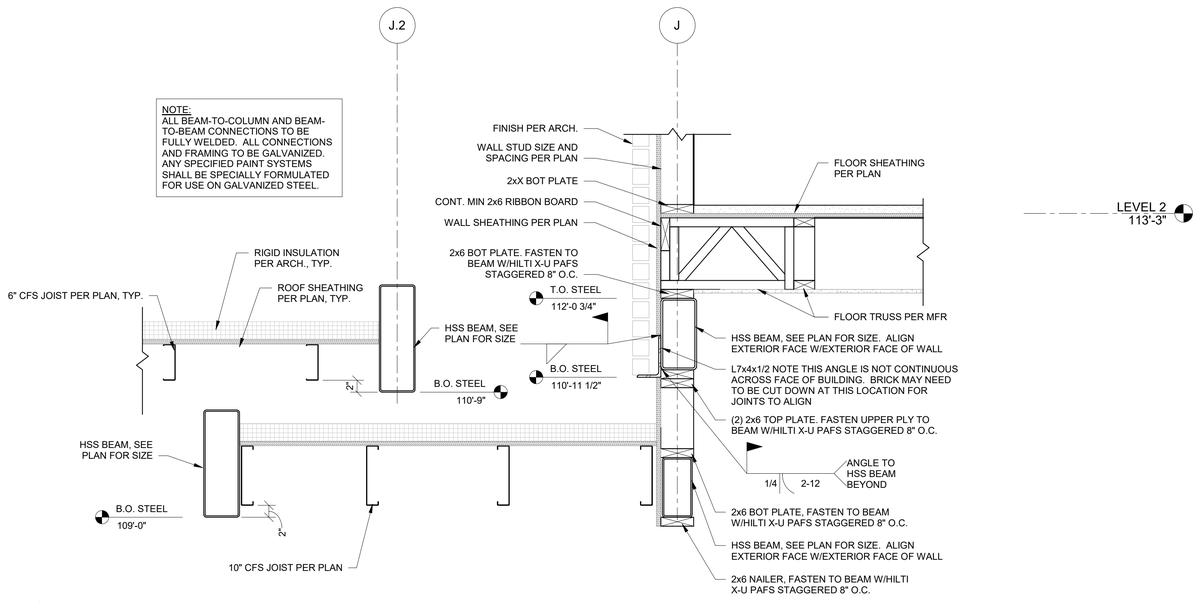
S511



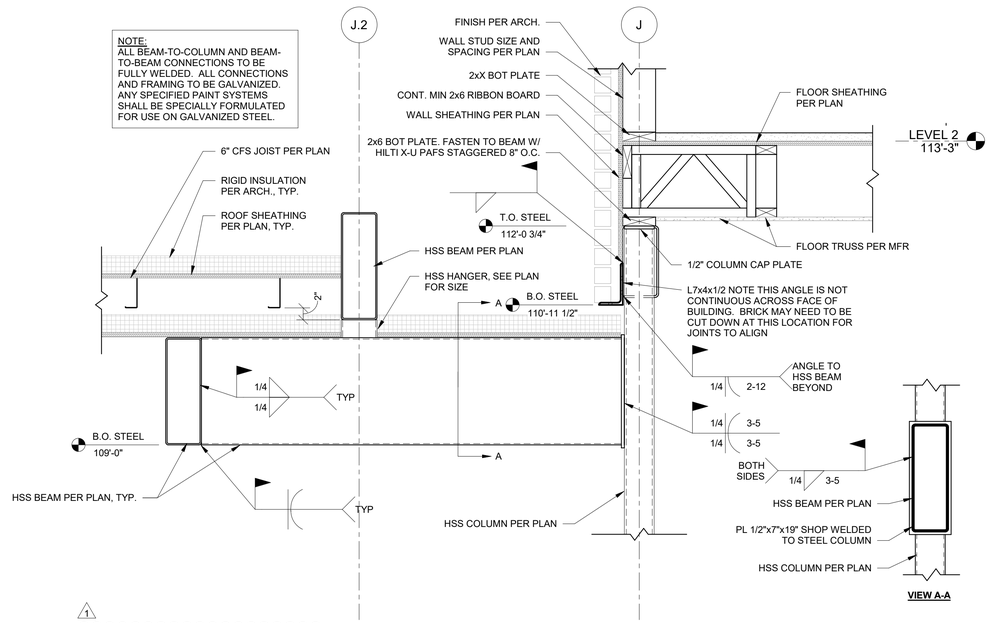
1 / 1 — 1 S512 — CANOPY FRAMING SECTION 1 — 1" = 1'-0"



1 / 2 — 2 S512 — CANOPY FRAMING SECTION 2 — 1" = 1'-0"



1 / 3 — 3 S512 — CANOPY FRAMING SECTION 3 — 1" = 1'-0"



1 / 4 — 4 S512 — CANOPY FRAMING SECTION 4 — 1" = 1'-0"

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CELESTE KAY SPICKERT
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PROFESSIONAL ENGINEER

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SHEET TITLE
ENTRY CANOPY SECTIONS

PROJECT NUMBER: 2023000333

SHEET NUMBER:

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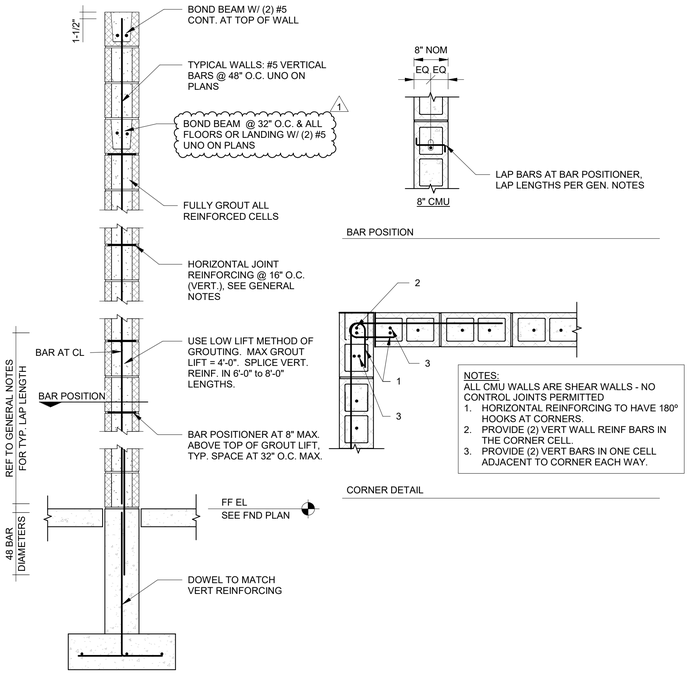
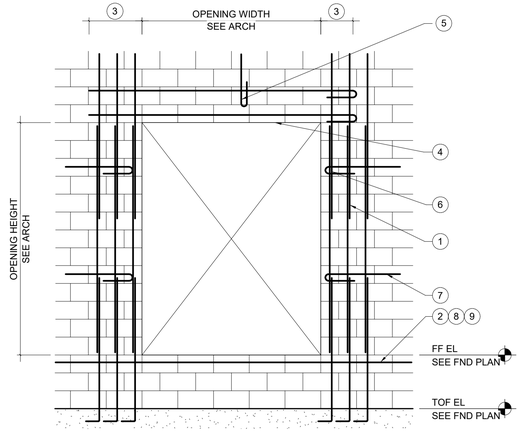
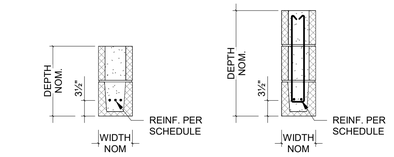


1 S520 CMU WALL REINFORCING DIAGRAM
3/4" = 1'-0"

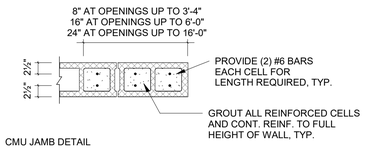


2 S520 TYPICAL MASONRY OPENING DIAGRAM & SCHEDULE
3/4" = 1'-0"

CMU LINTEL SCHEDULE				
MARK	WIDTH	DEPTH	REINFORCING	STIRRUPS
ALL	8"	16"	(2) #5	-

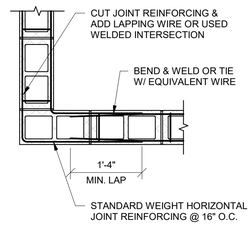


8" CMU LINTEL DETAIL

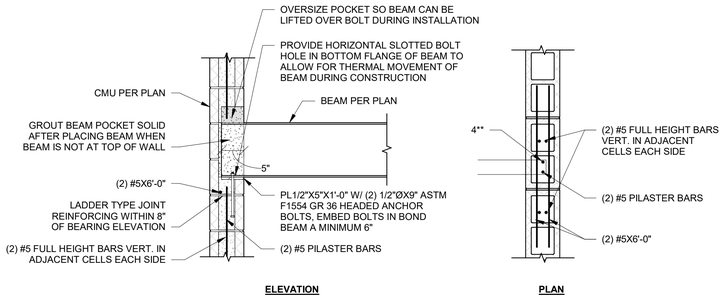


CMU JAMB DETAIL

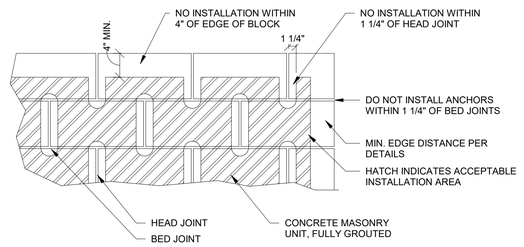
NOTES:
1. SPLICES IN VERT REINF, SEE GENERAL NOTES
2. BOND BEAM, SEE CMU WALL REINFORCING DIAGRAM.
3. EXTEND GROUTED LINTEL A MINIMUM OF 2'-0" BEYOND FACE OF OPENING EACH SIDE FOR STRAIGHT LINTEL REINF AND 1'-4" FOR LINTEL REINF WITH STANDARD 180° ACI HOOK.
4. USE LINTEL BLOCKS ONLY FOR BOTTOM COURSE OF LINTEL BEAMS OVER OPENING.
5. CONTINUE VERT WALL REINF OVER OPENING. ANCHOR VERT REINF INTO LINTEL BEAM WITH STANDARD 180° ACI HOOK.
6. ALL VERT BARS AT CMU JAMB TO EXTEND 24" ABOVE OPENING.
7. WHERE HORIZONTAL REINFORCING IS TERMINATED BY OPENING OR CONTROL JOINT, PROVIDE STANDARD 180° ACI HOOK WITH VERTICAL WALL REINFORCING IN THE END CELL.
8. PROVIDE 2-#5 AT BOTTOM OF ALL OPENINGS ABOVE FINISH FLOOR. EXTEND MINIMUM OF 2'-0" BEYOND FACE OF OPENING EACH SIDE FOR STRAIGHT REINFORCING AND 1'-4" FOR HOOKED REINFORCING WITH STANDARD 180° ACI HOOK.
9. PROVIDE (2) #5 BAR IN BOND BEAM AT SILL LOCATIONS.
10. DO NOT OVERSIZE OPENINGS AT ELEVATORS DURING CONSTRUCTION WITHOUT EXPLICIT PERMISSION FROM MEC



3 S520 JOINT REINFORCING AT INTERSECTION CMU WALLS
3/4" = 1'-0"



4 S520 BEAM CONNECTION TO MASONRY
3/4" = 1'-0"



1
5 S520 ACCEPTABLE LOCATIONS FOR ANCHORS IN MASONRY
1" = 1'-0"

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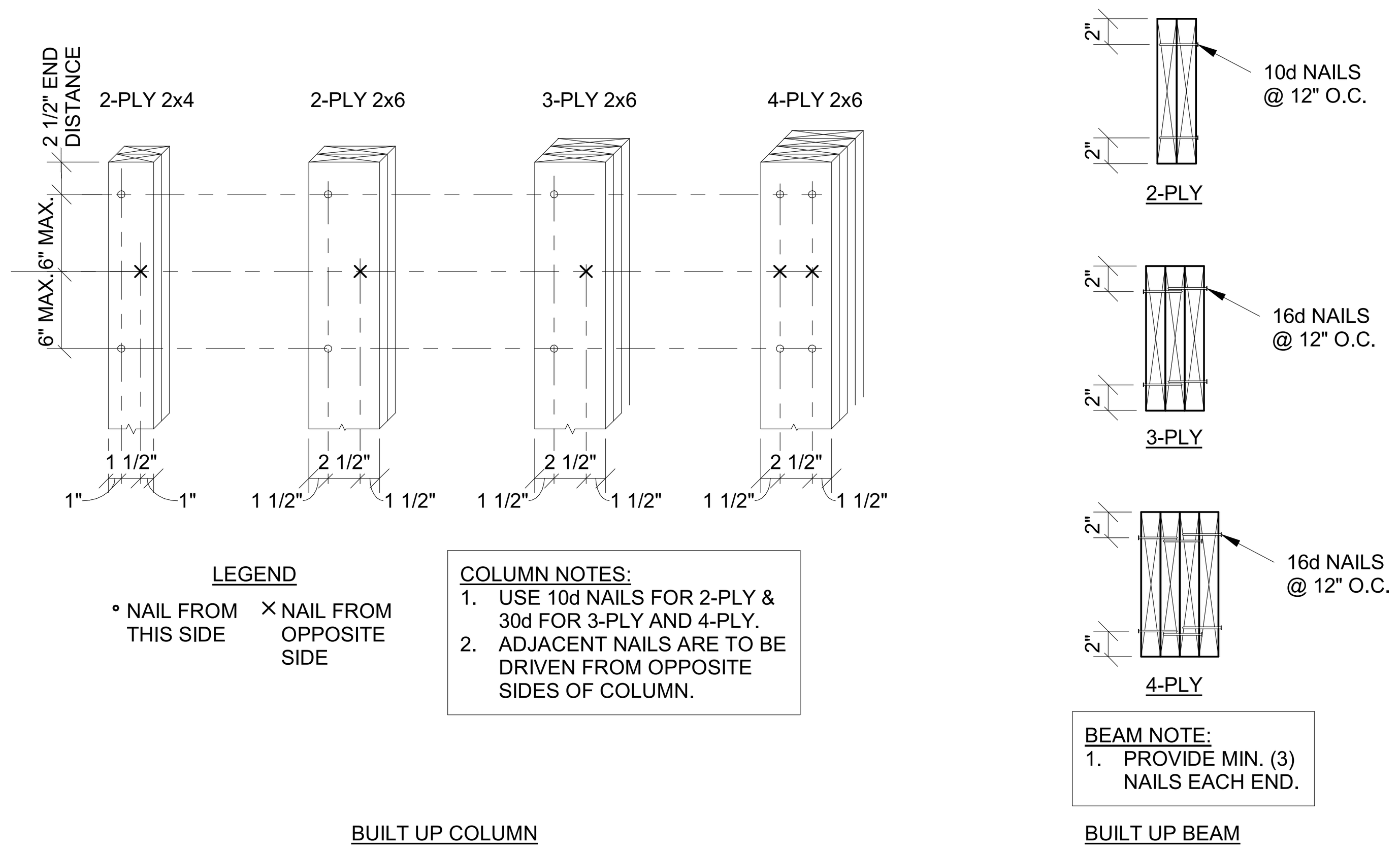
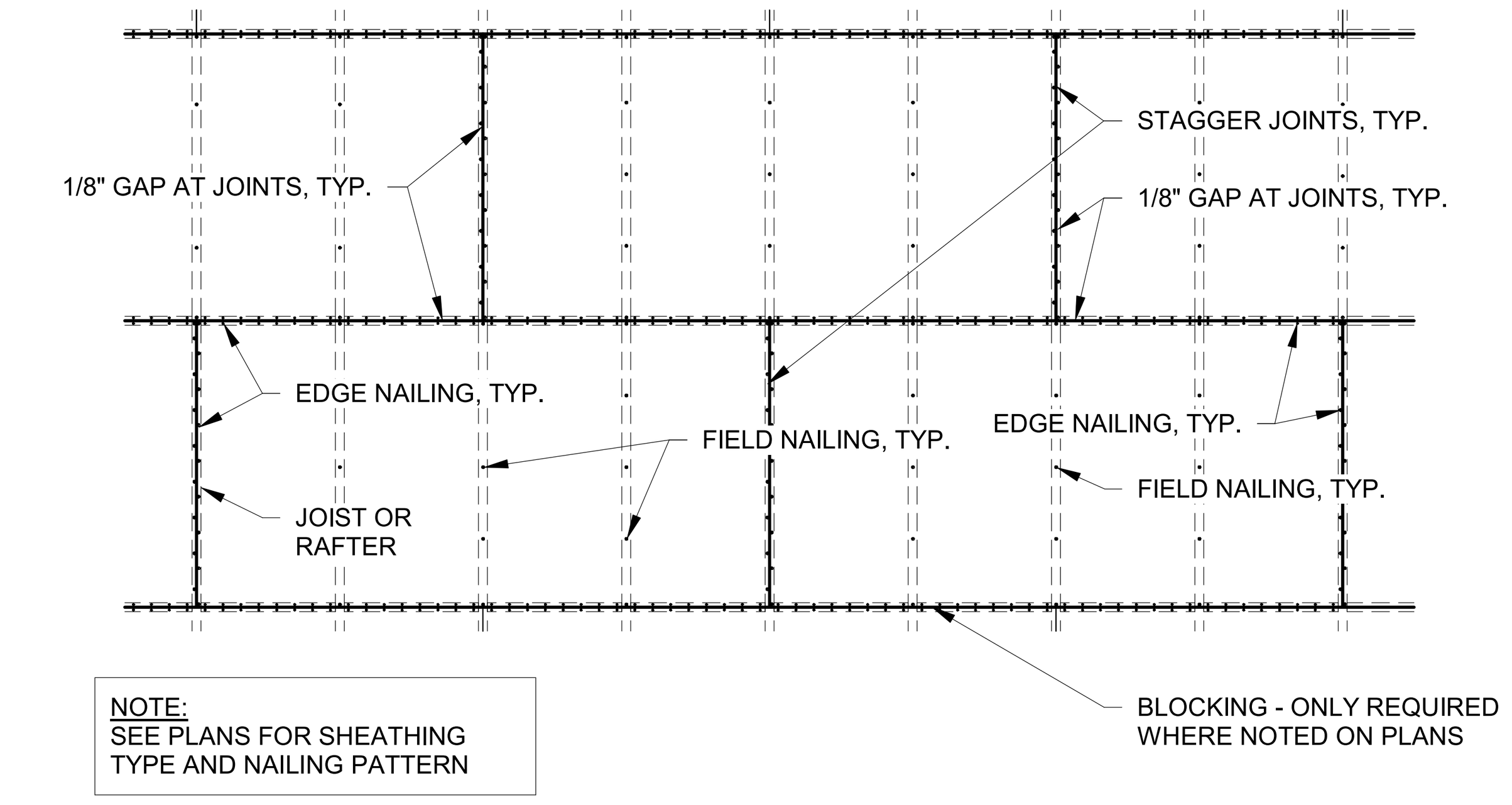
SHEET TITLE
MASONRY DETAILS

PROJECT NUMBER: 2023000333

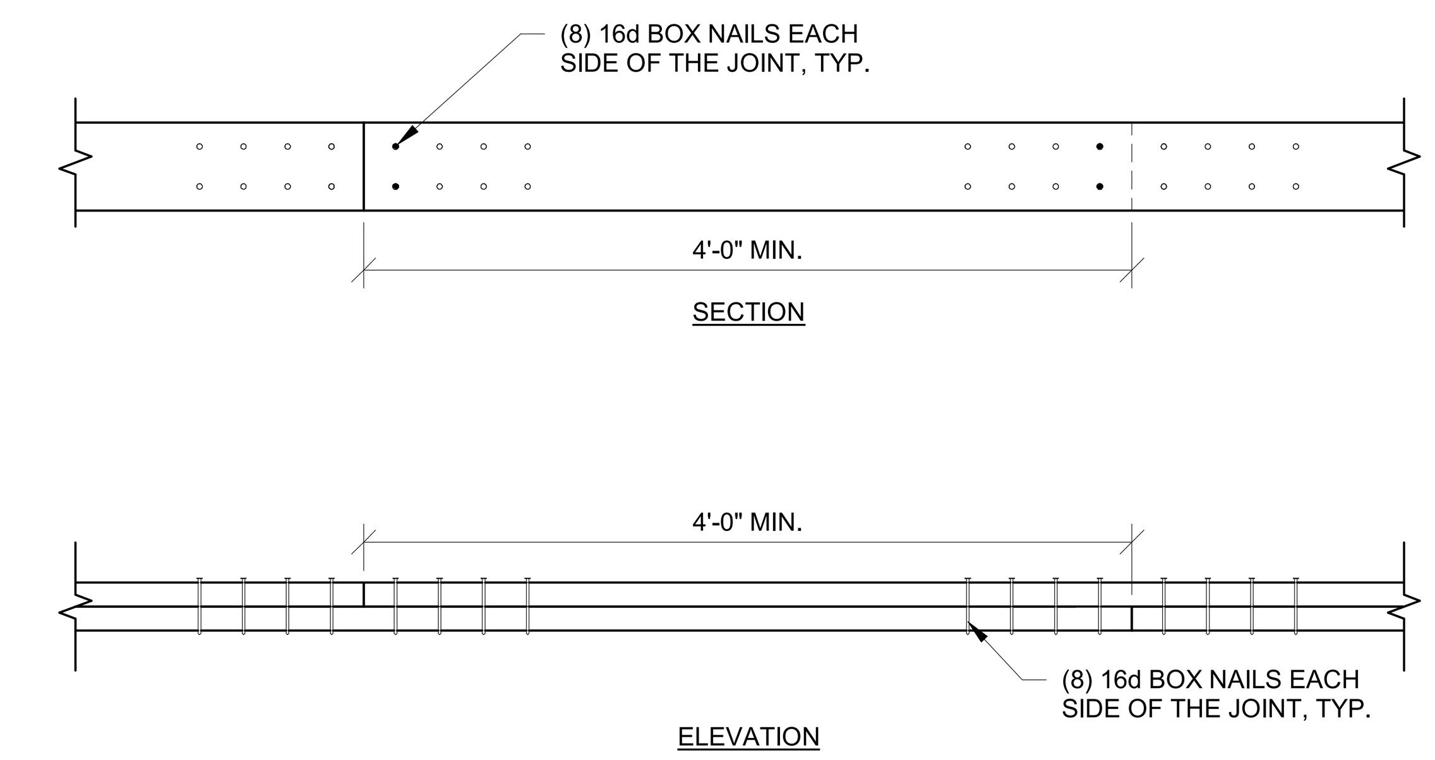
SHEET NUMBER:
S520



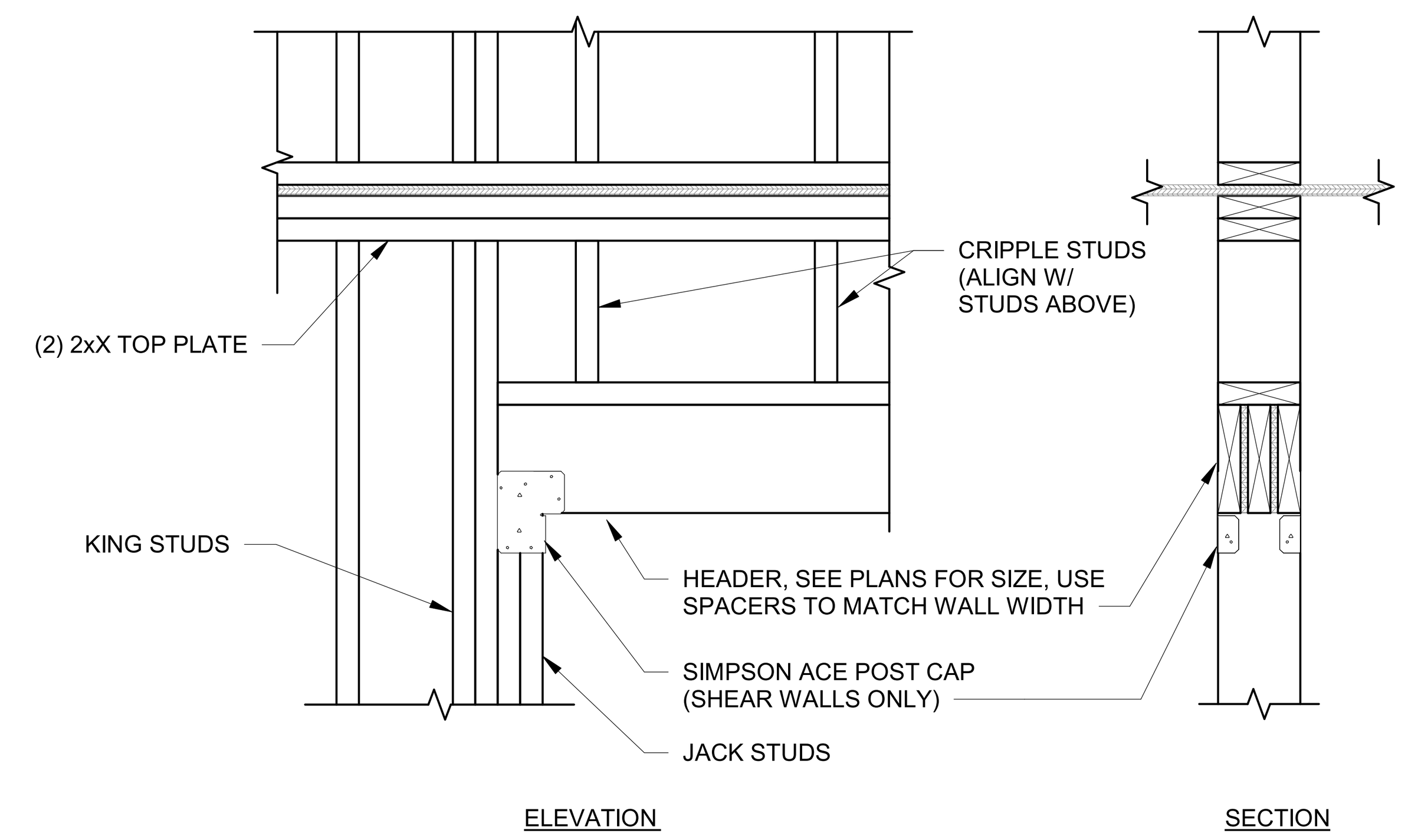
1 S531 TYPICAL BUILT-UP MEMBER DETAIL
NTS



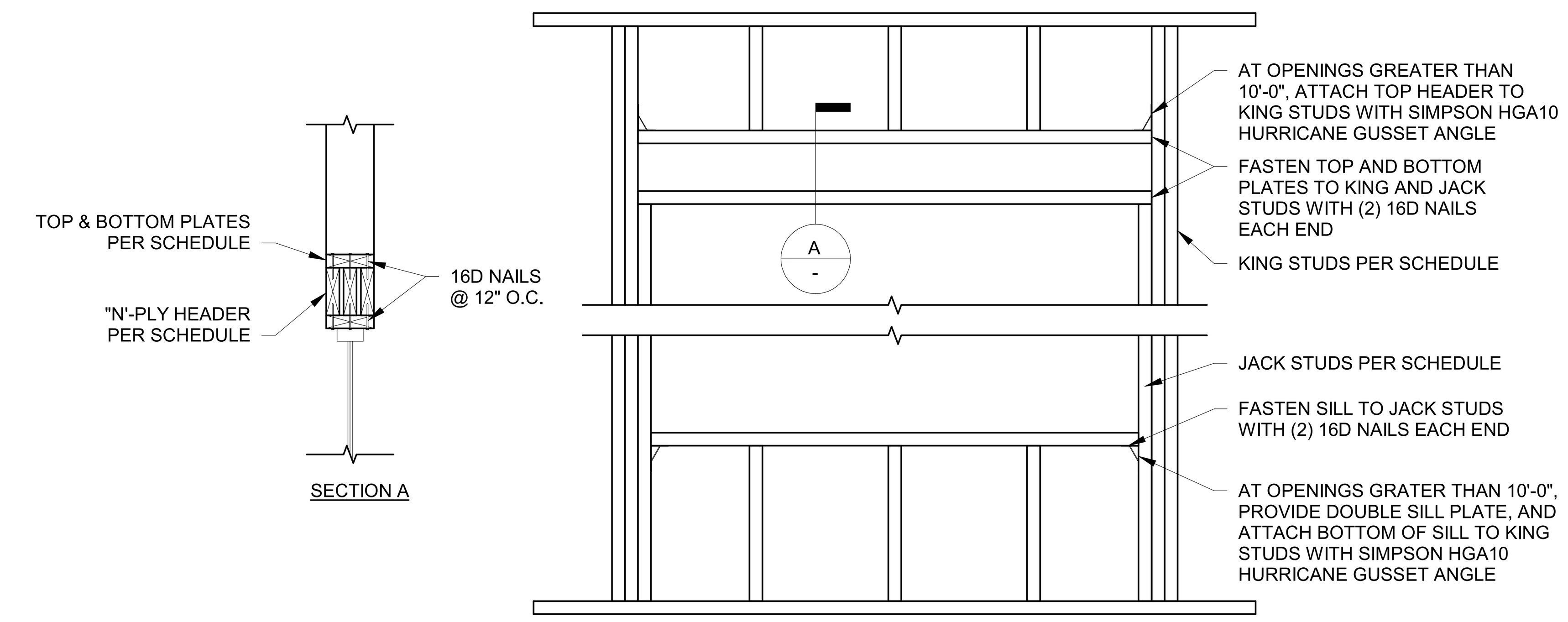
2 S531 TYPICAL DIAPHRAGM NAILING
NTS



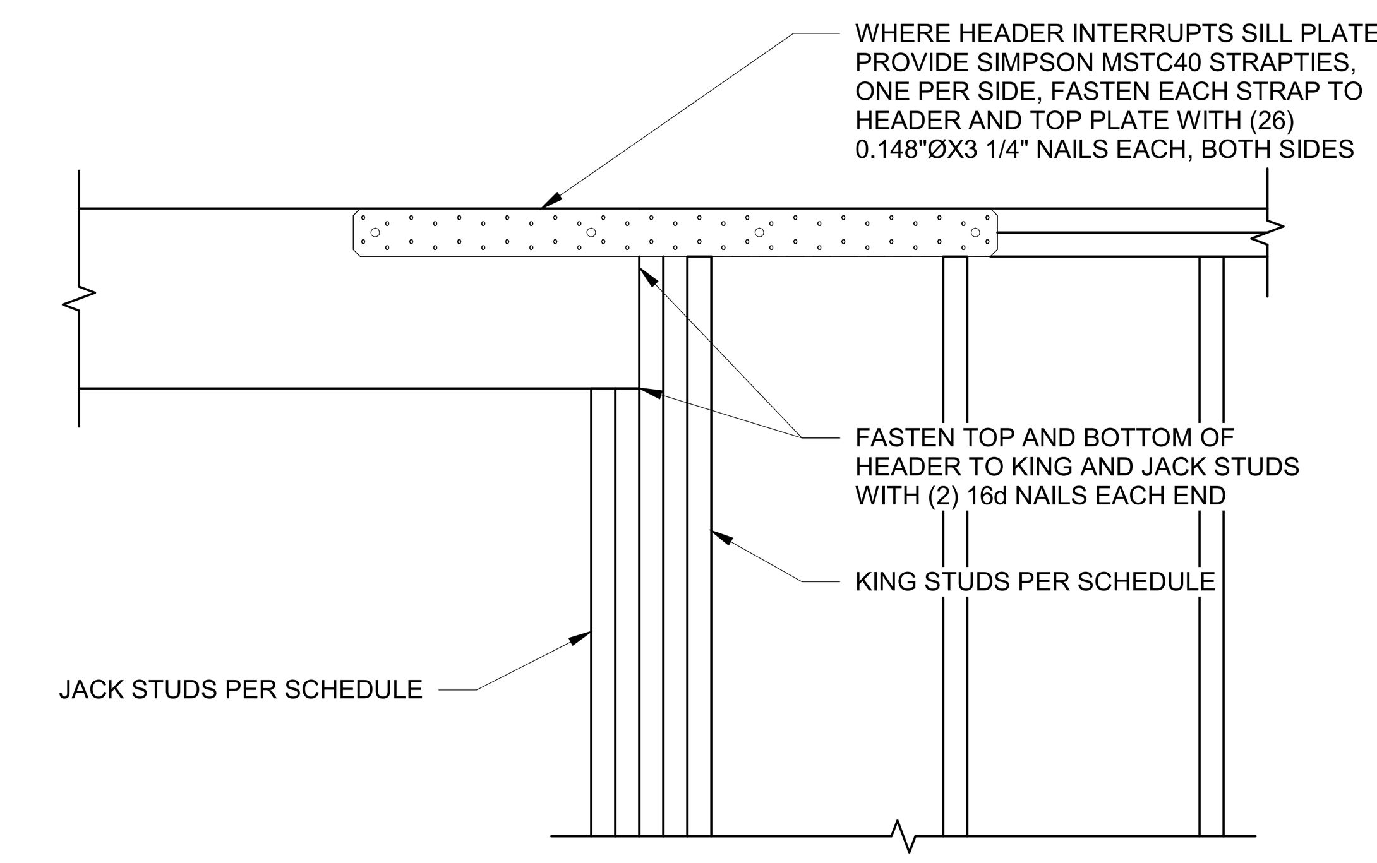
3 S531 TOP PLATE SPLICE
NTS



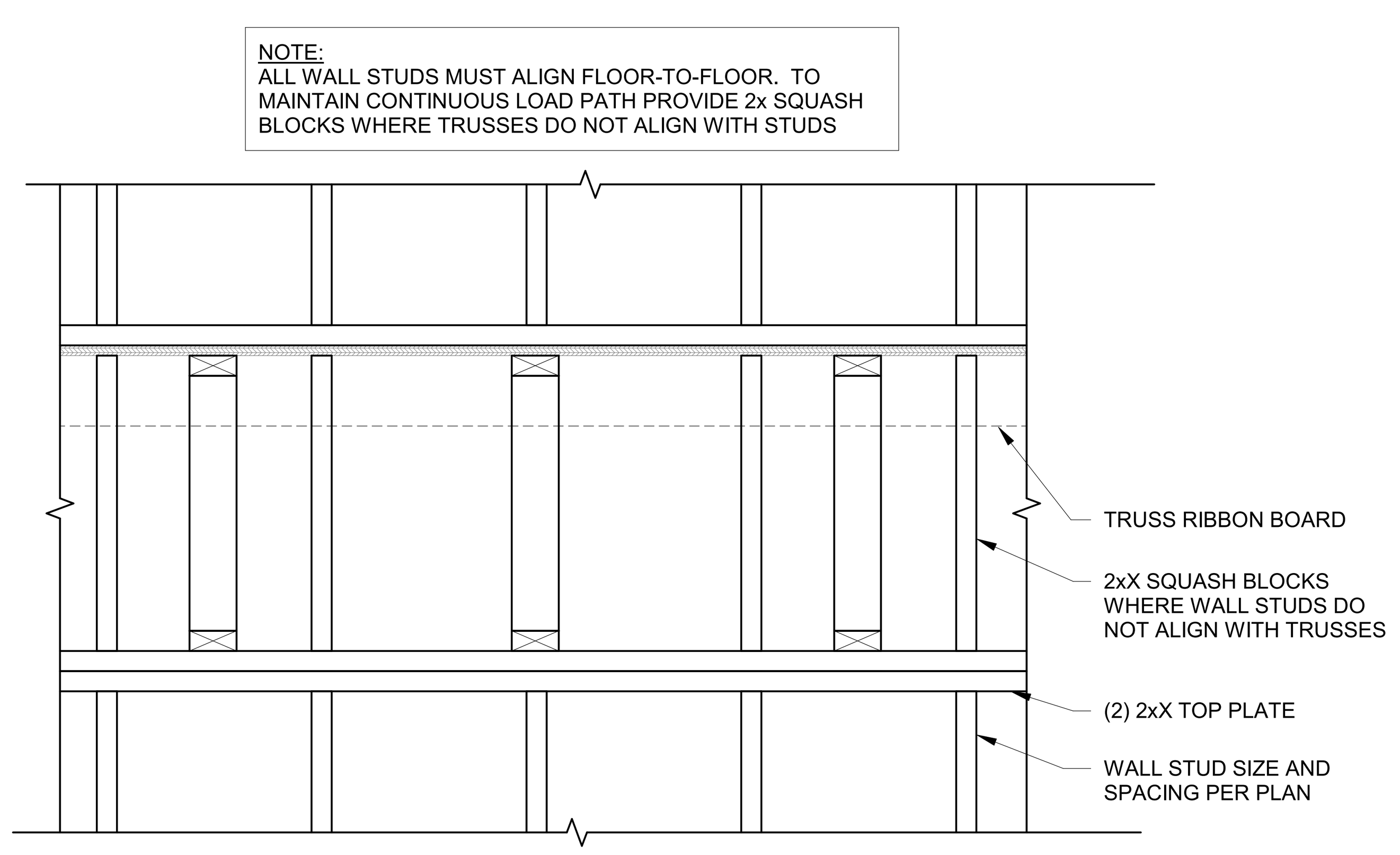
4 S531 TYPICAL HEADER CONNECTION AT SHEAR WALLS
NTS



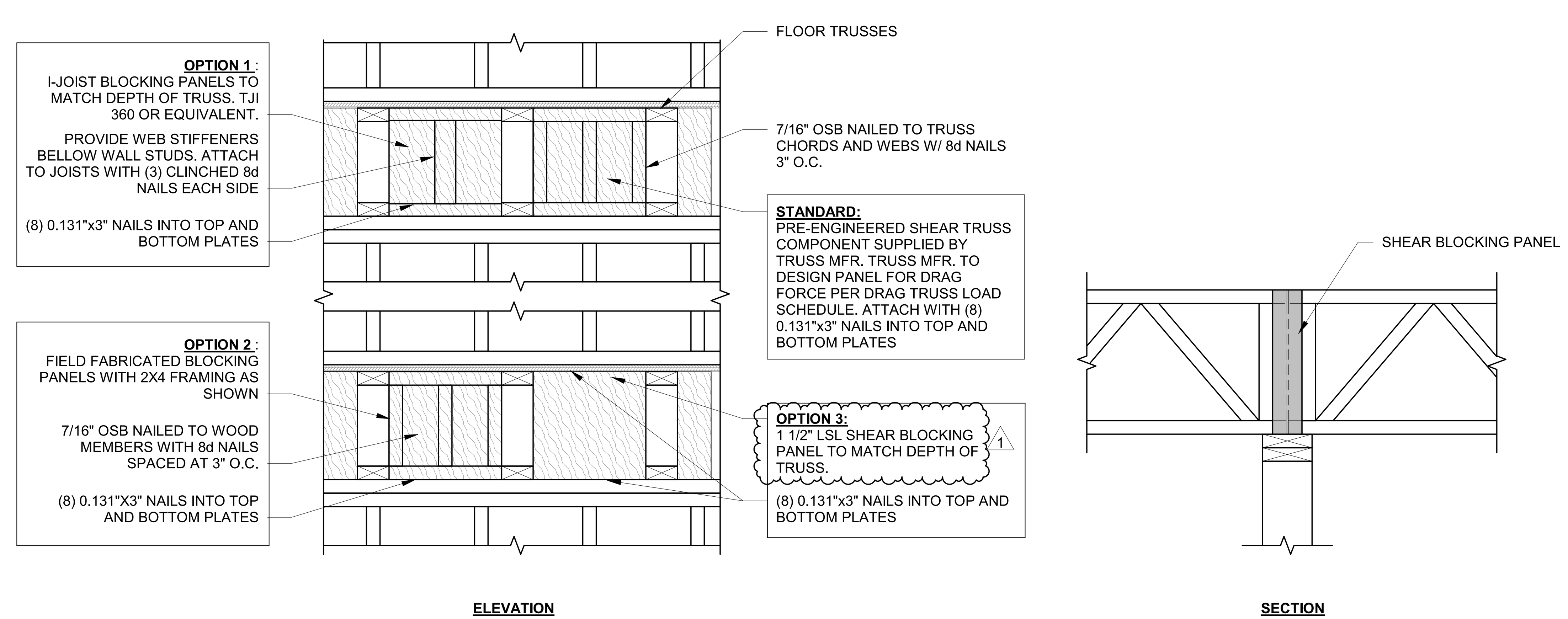
5 S531 FRAMING AT OPENING
NTS



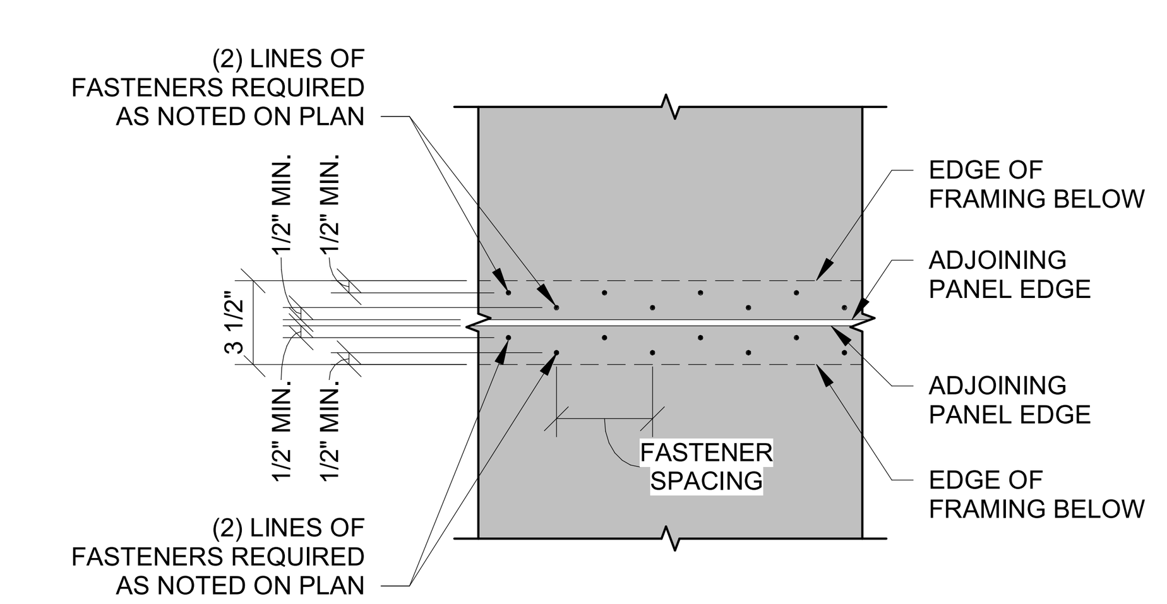
6 S531 FRAMING AT OPENING - RAISED HEADER
NTS



7 S531 TYPICAL WALL FRAMING ELEVATION
1" = 1'-0"



8 S531 SHEAR BLOCKING PANEL OPTIONS AT SHEAR WALLS
1" = 1'-0"



9 S531 MULTIPLE LINE DIAPHRAGM EDGE FASTENING
NTS

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Columbia, MO 65203
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MISSOURI CERTIFICATE OF AUTHORITY
NO. E-2006023253
EXPIRES: DECEMBER 31, 2024

STATE OF MISSOURI
CELESTE KAY SPICKERT
NUMBER PE-2008002213
PROFESSIONAL ENGINEER
05/17/2024

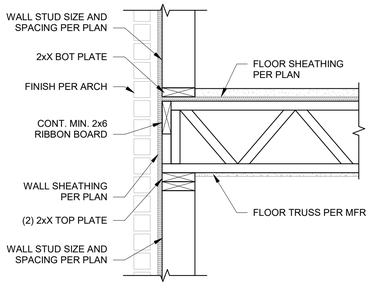
HOME2 SUITES BY HILTON
251 NE ALURA WAY
LEE'S SUMMIT, MISSOURI 64064

SHEET TITLE
TYPICAL WOOD DETAILS

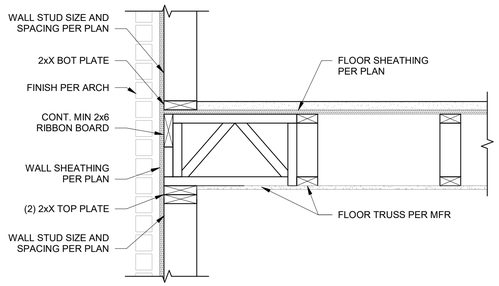
PROJECT NUMBER: 2023000333

SHEET NUMBER:

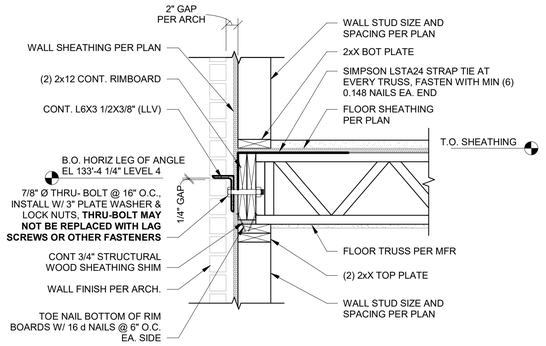
S531



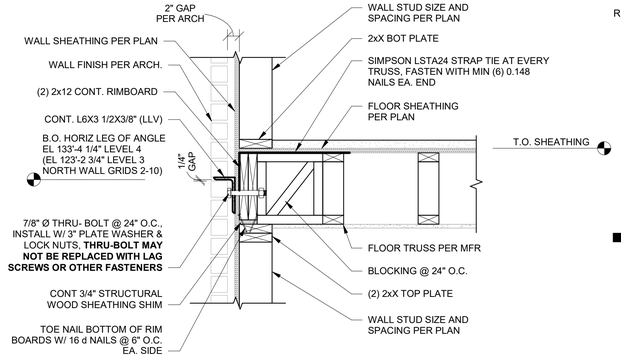
1A S532 FRAMING AT EXTERIOR WALL - OPEN WEB TRUSS BEARING
1" = 1'-0"



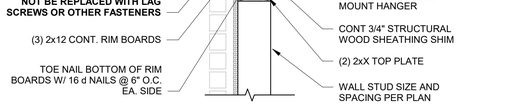
1B S532 FRAMING AT EXTERIOR WALL - OPEN WEB TRUSS PARALLEL
1" = 1'-0"



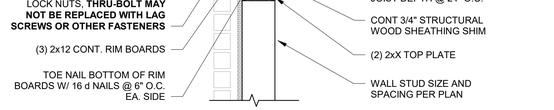
2A S532 FRAMING AT EXTERIOR WALL - OPEN WEB TRUSSES BEARING
1" = 1'-0"



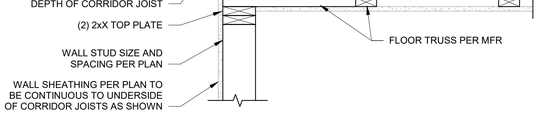
2B S532 FRAMING AT EXTERIOR WALL - OPEN WEB TRUSSES PARALLEL
1" = 1'-0"



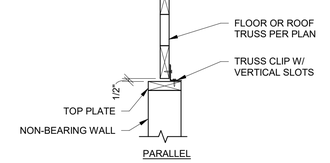
3A S532 FRAMING AT EXTERIOR WALL - 2X JOISTS - BEARING
1" = 1'-0"



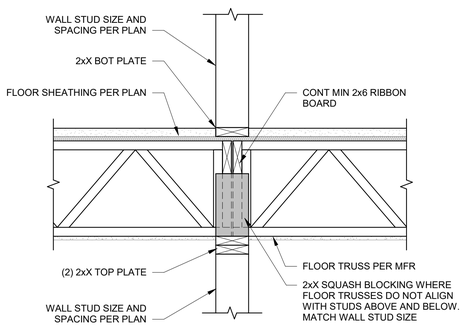
3B S532 FRAMING AT EXTERIOR WALL - 2X JOISTS - PARALLEL
1" = 1'-0"



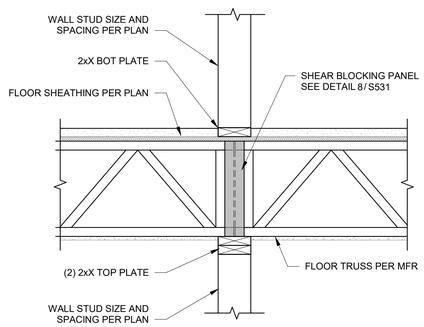
4 S532 FRAMING AT CORRIDOR
1" = 1'-0"



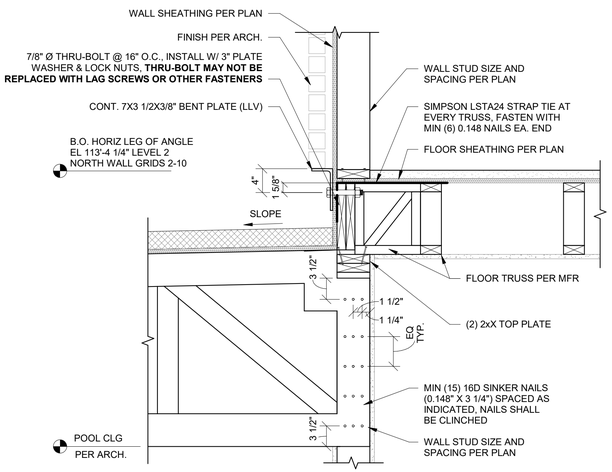
5 S532 NON-BEARING WALL TO FLOOR OR ROOF TRUSS
1" = 1'-0"



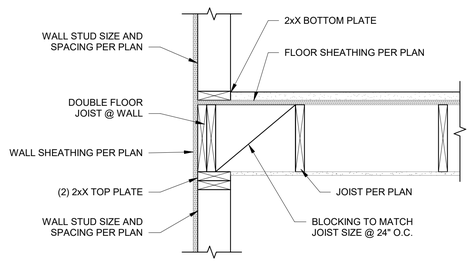
6A S532 FRAMING AT INTERIOR BEARING WALL (NON-SHEAR)
1" = 1'-0"



6B S532 FRAMING AT INTERIOR SHEAR WALL
1" = 1'-0"



7 S532 FRAMING AT POOL ROOF
1" = 1'-0"



8 S532 JOIST PARALLEL AT EXTERIOR WALL
1" = 1'-0"

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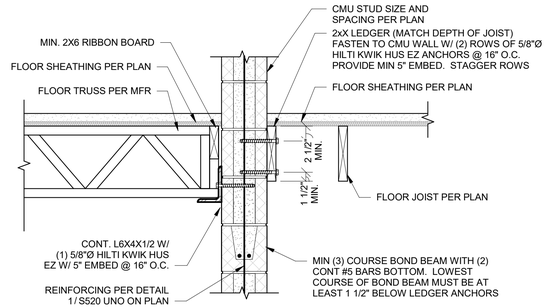
HOME2 SUITES BY HILTON
251 NE ALURA WAY
LEE'S SUMMIT, MISSOURI 64064

SHEET TITLE
FLOOR FRAMING DETAILS

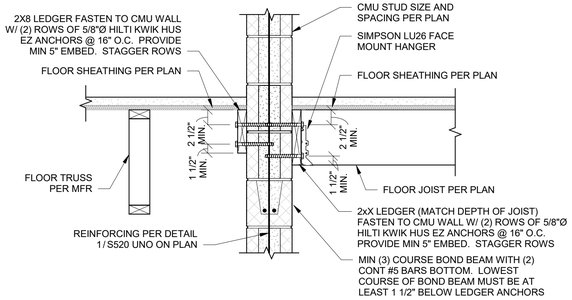
PROJECT NUMBER: 2023000333

SHEET NUMBER:

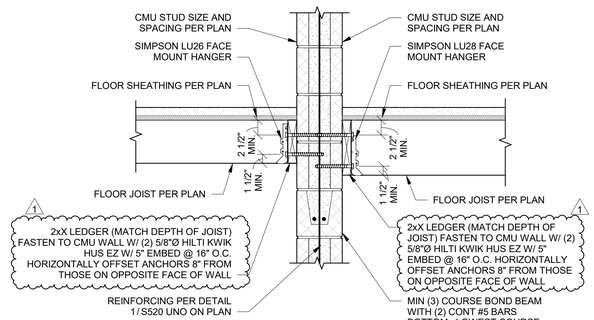
S532



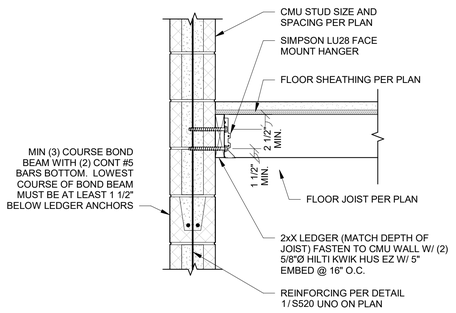
1 S533 FLOOR TRUSS BEARING AT CMU
1" = 1'-0"



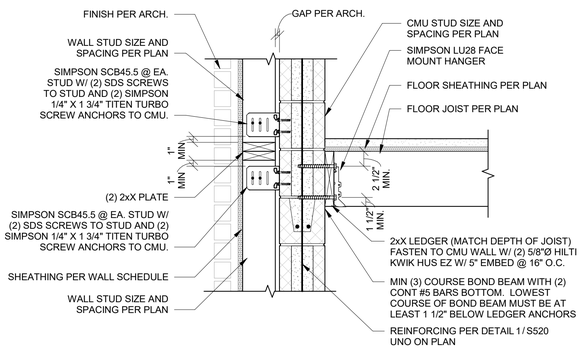
2 S533 FLOOR TRUSS PARALLEL AT CMU
1" = 1'-0"



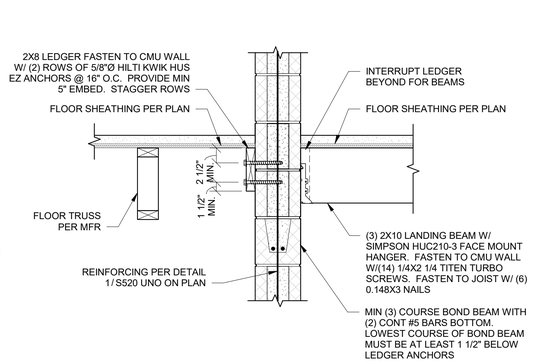
3 S533 FLOOR JOISTS BEARING AT CMU
1" = 1'-0"



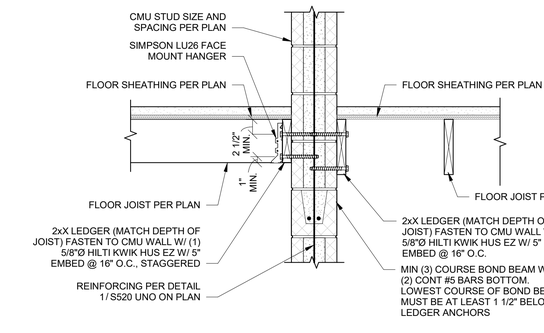
4 S533 FLOOR JOIST BEARING AT CMU
1" = 1'-0"



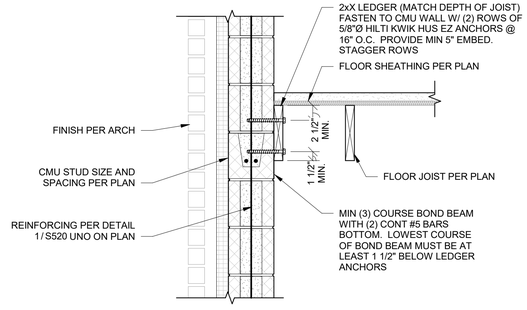
5 S533 EXTERIOR WALL BYPASS AT CMU - BEARING
1" = 1'-0"



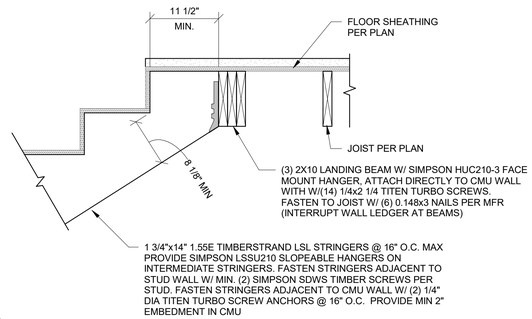
6 S533 STAIR LANDING BEAM ATTACHMENT TO CMU
1" = 1'-0"



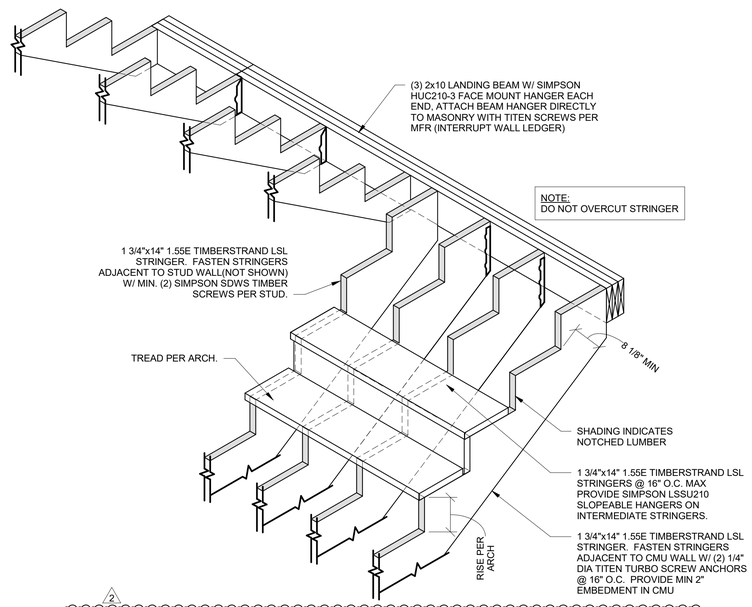
7 S533 FLOOR JOIST TRANSITION AT CMU
1" = 1'-0"



8 S533 FLOOR JOIST PARALLEL AT CMU W/ BRICK
1" = 1'-0"



2
9 S533 STRINGER TO LANDING BEAM SECTION
1" = 1'-0"



2
10 S533 WOOD STAIR ISOMETRIC
3/4" = 1'-0"

6/14/2024 2:12:00 AM
Autodesk Docs://2023000333 - Discovery Park Lee's Summit/2023000333 - Rosemann - Home2_R23.rvt

PRINTS ISSUED
04/17/2024 - CITY SUBMISSION

REVISIONS:
1 05/17/2024 CITY RESPONSE
2 06/14/2024 CITY & BRAND RESPONSE

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STATE OF MISSOURI
CELESTE KAY SPICKERT
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06/14/2024
Celeste Kay Spickert
PE-2008002213
Expires 12/31/2024

HOME2 SUITES BY HILTON

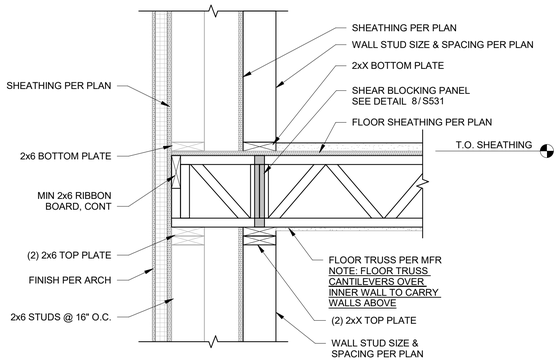
251 NE ALURA WAY
LEE'S SUMMIT, MISSOURI 64064

SHEET TITLE
FLOOR FRAMING DETAILS

PROJECT NUMBER: 2023000333

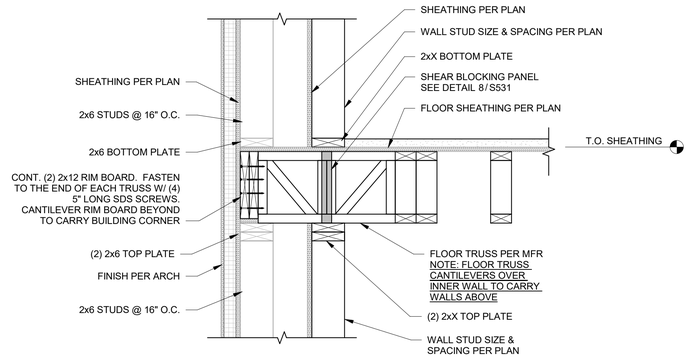
SHEET NUMBER:

S533



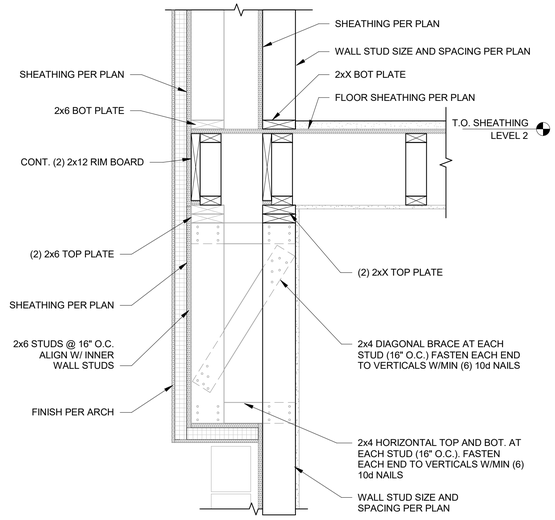
2

1 S534 FRAMING AT EXTERIOR WALL OVERFRAMING - TRUSS W/ RIM BOARD - BEARING
1" = 1'-0"



2

2 S534 FRAMING AT EXTERIOR WALL OVERFRAMING - TRUSS W/ RIM BOARD - PARALLEL
1" = 1'-0"



2

3 S534 SECTION AT OVERFRAMING AT LEVEL 2
1" = 1'-0"

2

4 S534 SECTION AT OVERFRAMING
1" = 1'-0"

5 S534 FLOOR TRUSS BEARING AT BEAM
1" = 1'-0"

6 S534 FLOOR JOIST BEARING - TRUSS PARALLEL
1" = 1'-0"

2

7 S534 WOOD BEAM FACE MOUNTED TO CMU
1" = 1'-0"

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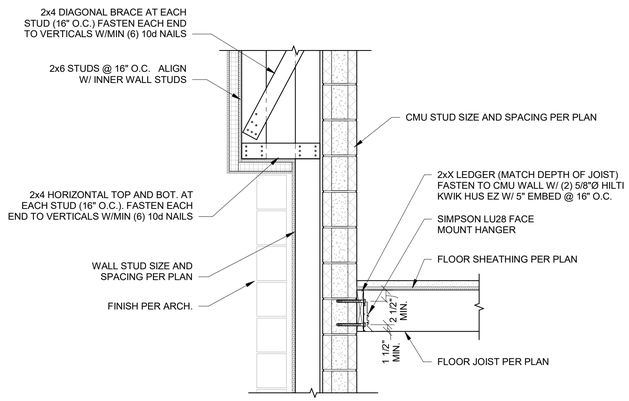
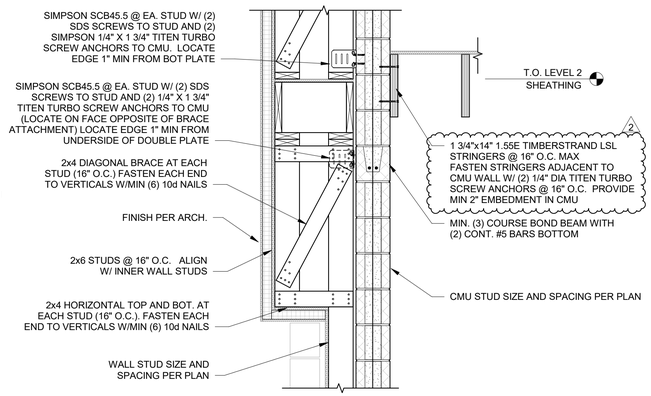
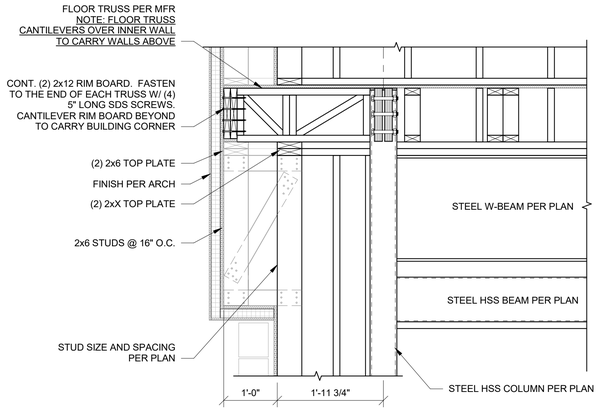


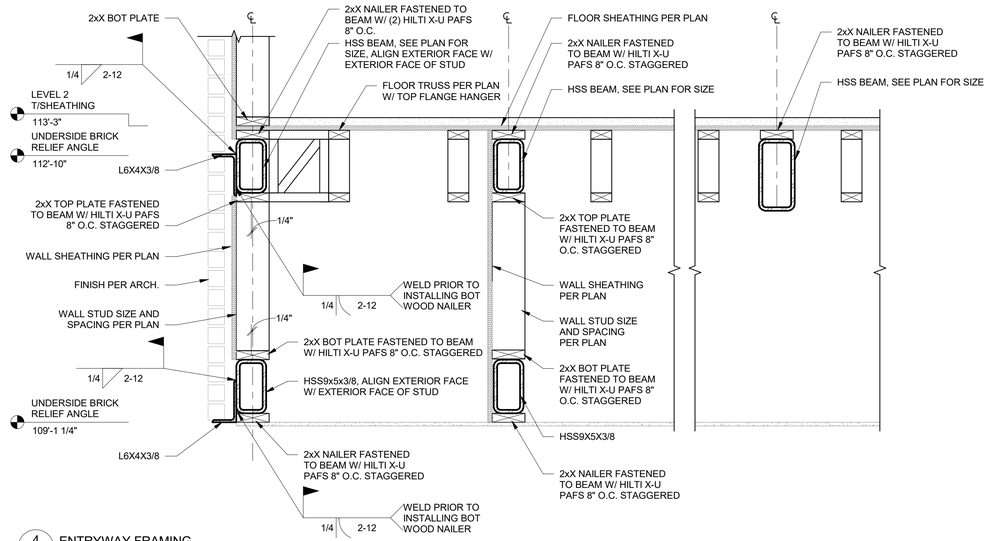
1 S535 SECTION AT OVERFRAMING AT LEVEL 2 & STAIR LANDING
3/4" = 1'-0"



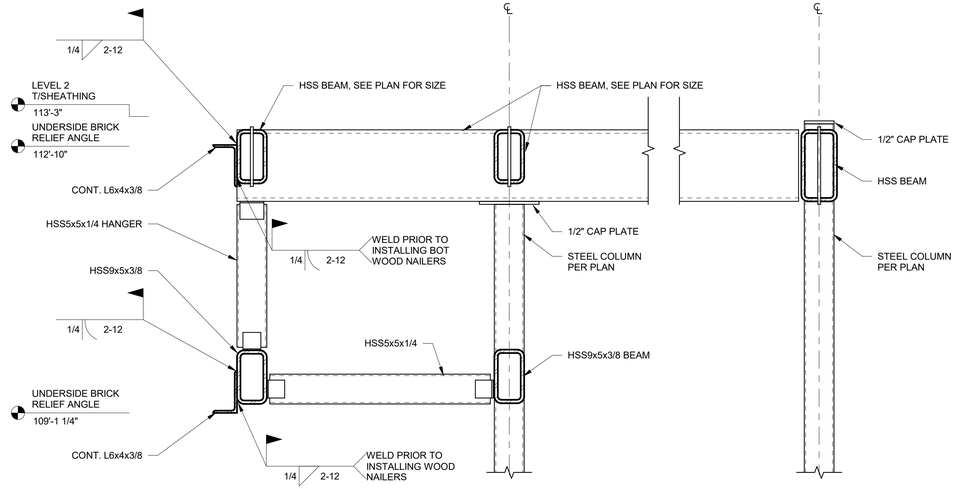
2 S535 SECTION AT OVERFRAMING AT LEVEL 2
3/4" = 1'-0"



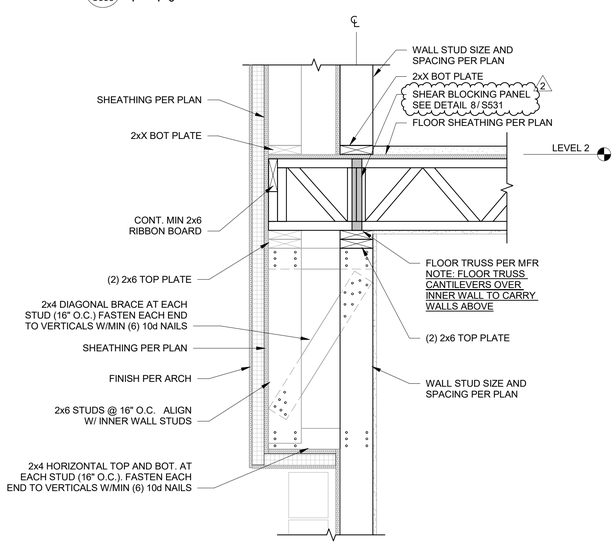
2
3 S535 SOUTHWEST CORNER FRAMING
3/4" = 1'-0"



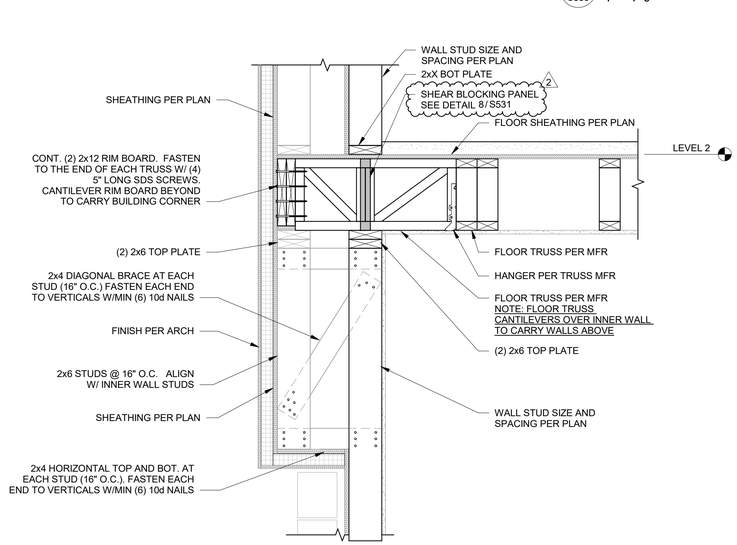
4 S535 ENTRYWAY FRAMING
1" = 1'-0"



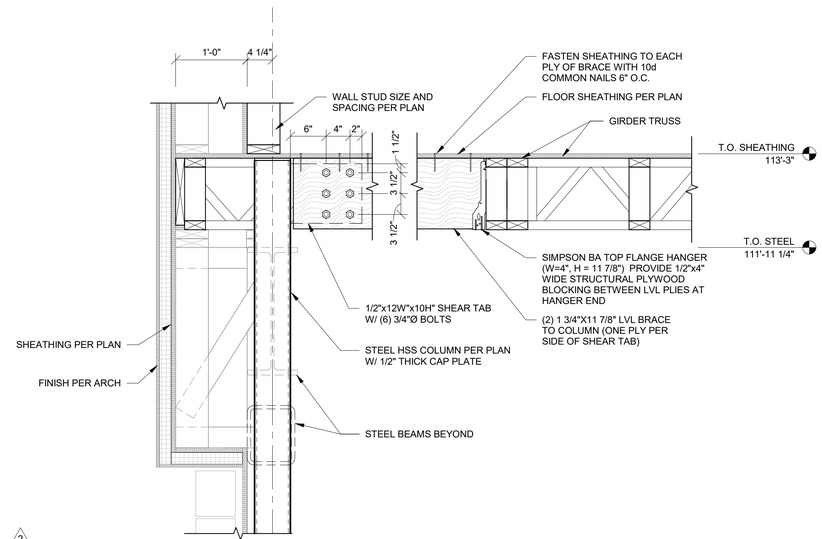
5 S535 ENTRYWAY FRAMING AT COLUMNS
1" = 1'-0"



6A S535 SECTION AT OVERFRAMING AT LEVEL 2
1" = 1'-0"



6B S535 SECTION AT OVERFRAMING AT LEVEL 2
1" = 1'-0"



2
7 S535 SOUTHWEST CORNER FRAMING B
1" = 1'-0"

PRINTS ISSUED
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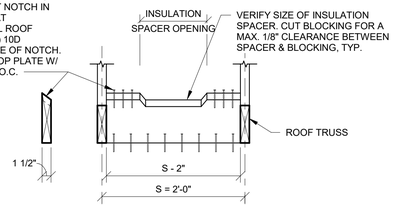
SHEET TITLE
FLOOR FRAMING DETAILS

PROJECT NUMBER: 2023000333

SHEET NUMBER:

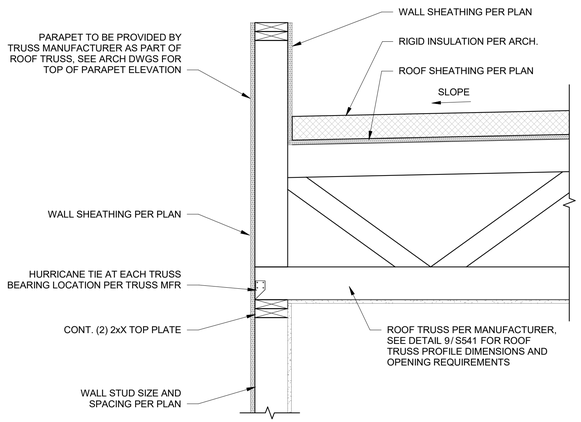
S535

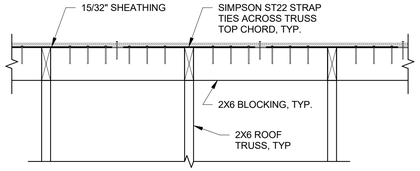
BLOCKING:
BEVEL CUT TOP OF 2X MATERIAL TO MATCH ROOF SLOPE. CUT NOTCH IN "TOP" FOR VENTILATION AT INSULATION SPACER. NAIL ROOF DECK TO BLOCKING W/ (3) 10D COMMON NAILS EACH SIDE OF NOTCH. TOE NAIL BLOCKING TO TOP PLATE W/ 10D COMMON NAILS @ 6" O.C.



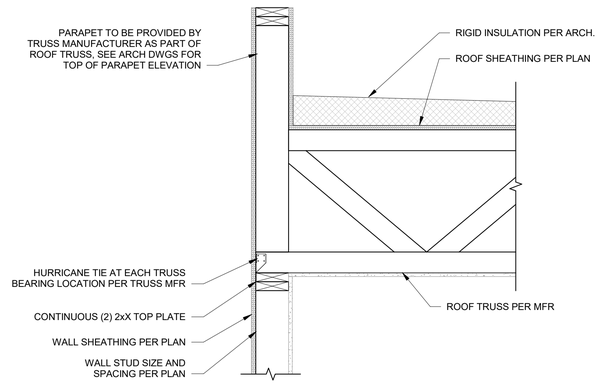
END VIEW ELEVATION VIEW

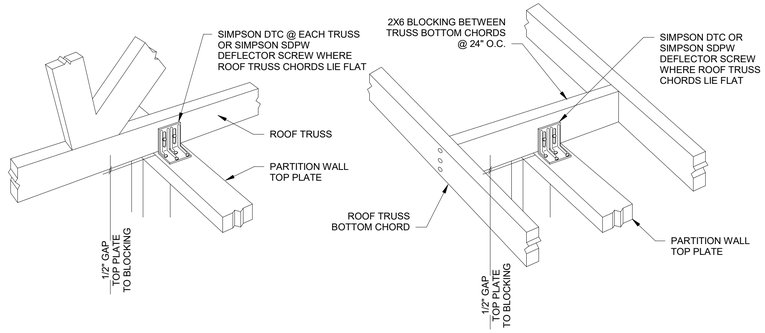
1 S540 TRUSS BLOCKING DETAIL
1" = 1'-0"





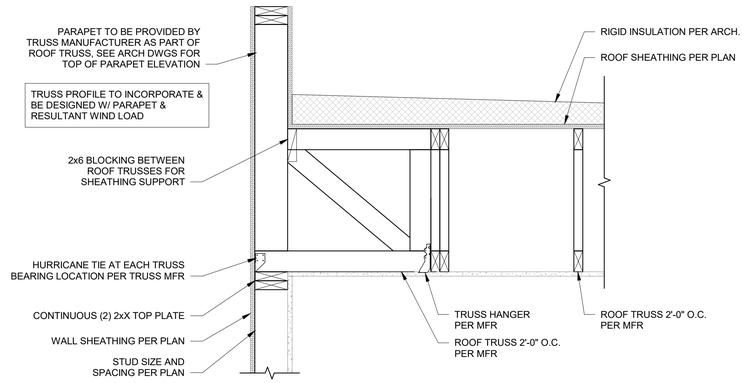
2 S540 BLOCKING BETWEEN TRUSSES
1" = 1'-0"



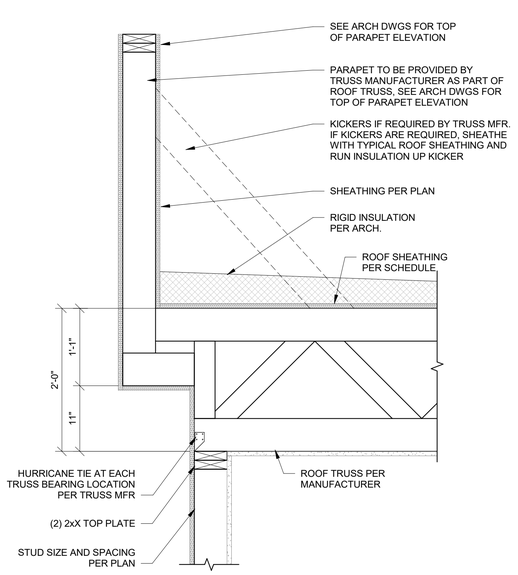


WALL PERPENDICULAR TO TRUSSES WALL PARALLEL TO TRUSSES

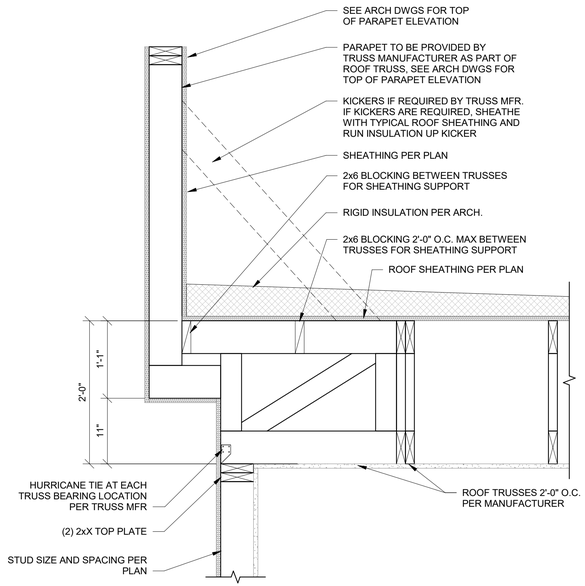
3 S540 PARTITION WALL AT ROOF TRUSS
1" = 1'-0"



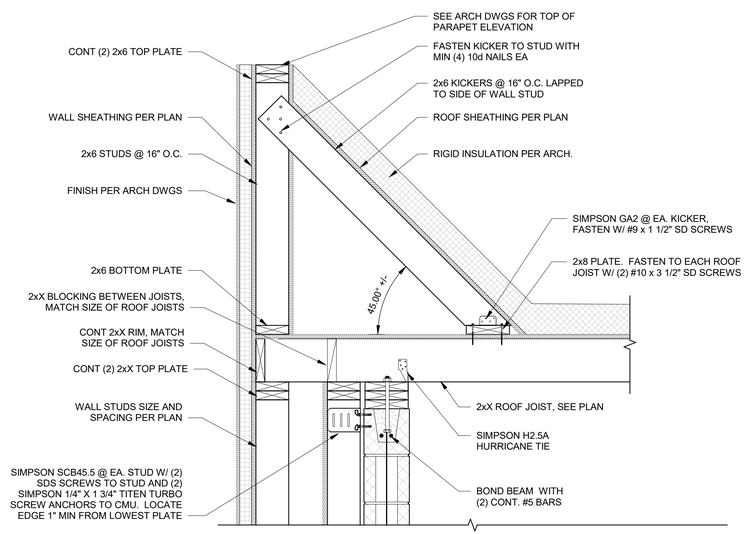
4 S540 ROOF TRUSS BEARING AT EXTERIOR WALL
1" = 1'-0"



5 S540 PARAPET SECTION AT ROOF TRUSS BEARING
1" = 1'-0"



6 S540 ROOF TRUSS PARALLEL AT EXTERIOR WALL
1" = 1'-0"



7 S540 PARAPET BUMP-OUT SECTION AT ROOF TRUSS BEARING
1" = 1'-0"

8 S540 PARAPET BUMP-OUT SECTION AT ROOF TRUSS PARALLEL
1" = 1'-0"

2

9 S540 ROOF SECTION AT STAIR TOWER
1" = 1'-0"

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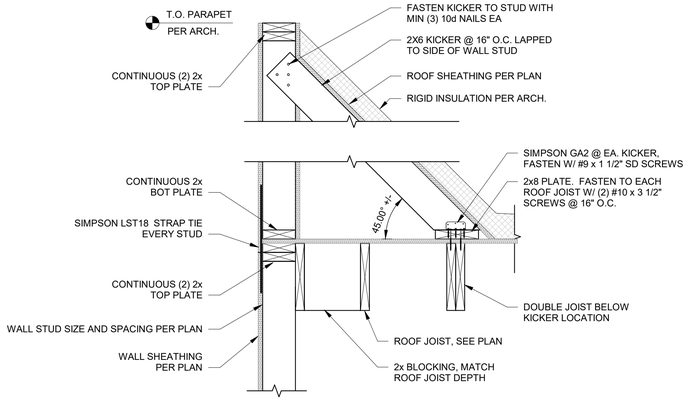
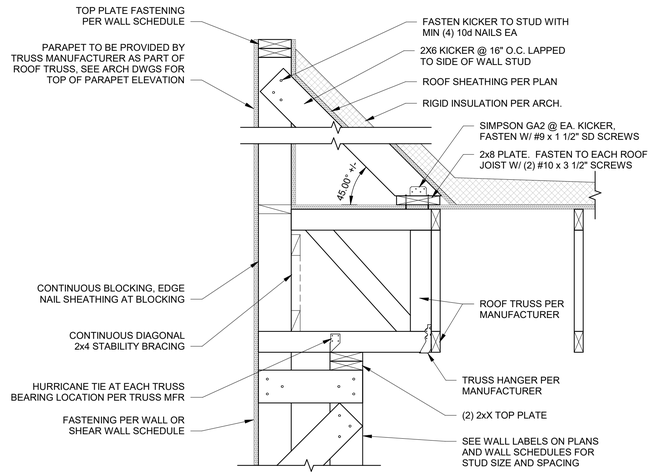
SHEET NUMBER:

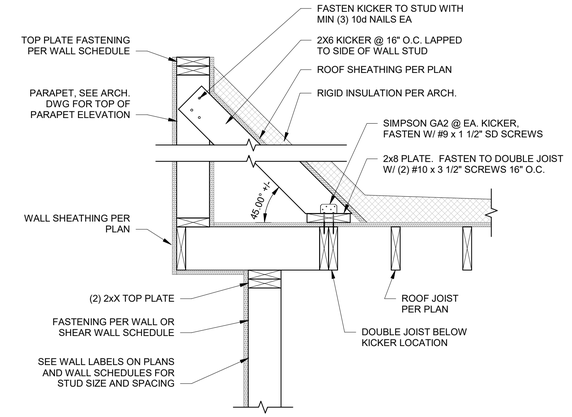
S540



1 S541 PARAPET SECTION AT STAIR TOWER ROOF JOIST PARALLEL
1" = 1'-0"



2 S541 PARAPET SECTION AT ROOF TRUSS PARALLEL
1" = 1'-0"



3 S541 PARAPET BUMP-OUT SECTION AT ROOF JOIST PARALLEL
1" = 1'-0"

4 S541 ROOF SECTION AT DOUBLE PARAPET
1" = 1'-0"

5 S541 FRAMING AT CORRIDOR AT ROOF
1" = 1'-0"

6 S541 FRAMING AT INTERIOR WALL -
OPEN WEB TRUSSES AT ROOF (NOT AT SHEAR WALL)
1" = 1'-0"

7 S541 FRAMING AT INTERIOR SHEAR WALL -
OPEN WEB TRUSSES AT ROOF
1" = 1'-0"

8 S541 SLOPED TRUSS PROFILE
1/2" = 1'-0"

1
9 S541 ROOF FRAMING AT ELEVATOR
1" = 1'-0"

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EXPIRES: DECEMBER 31, 2024

05/17/2024

HOME2 SUITES BY HILTON

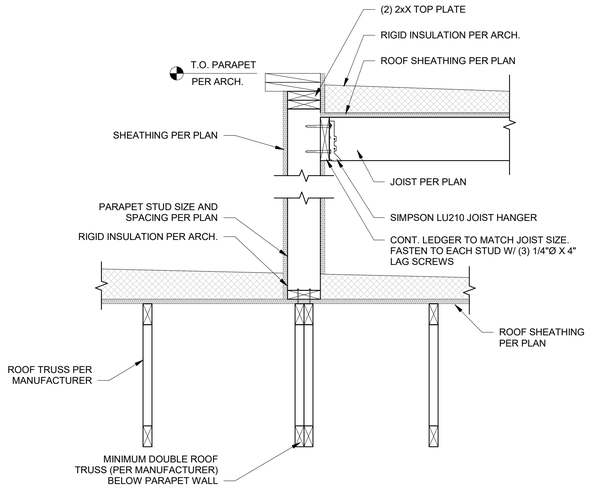
251 NE ALURA WAY
LEE'S SUMMIT, MISSOURI 64064

SHEET TITLE
ROOF DETAILS

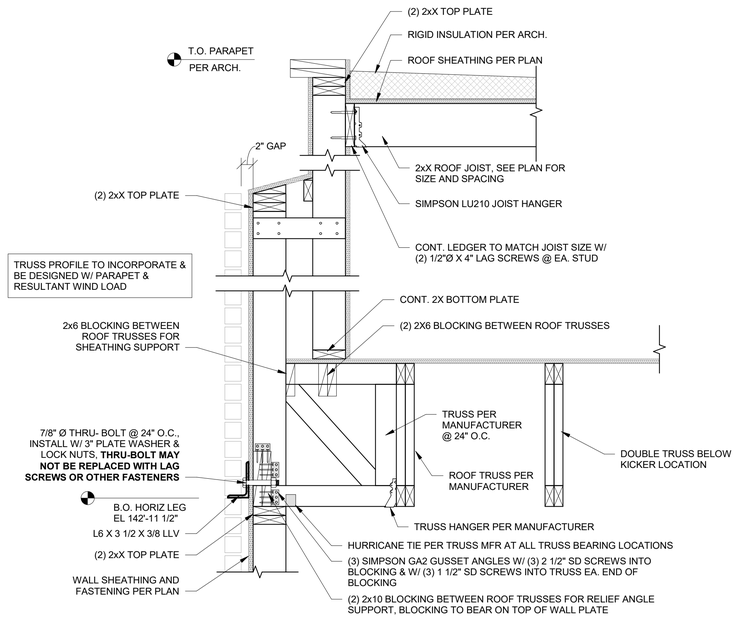
PROJECT NUMBER: 2023000333

SHEET NUMBER:

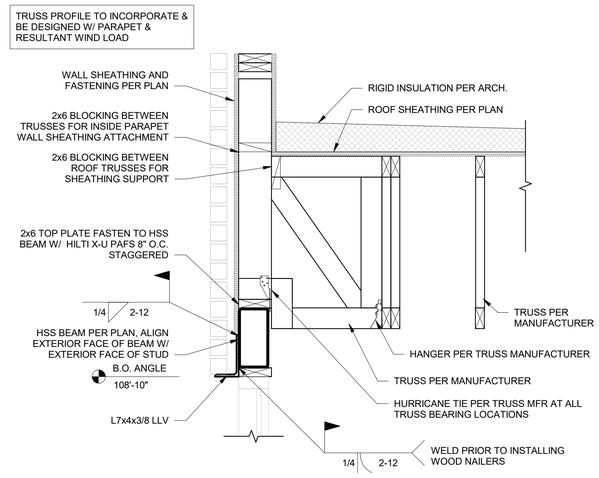
S541



1 S542 PARAPET WALL BEARING AT ROOF
1" = 1'-0"



2 S542 PARAPET BUMP-OUT SECTION AT ROOF TRUSS PARALLEL
1" = 1'-0"

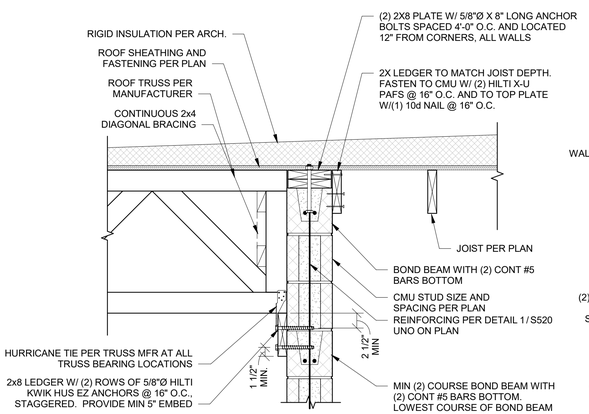


3 S542 ROOF TRUSS PARALLEL AT EXTERIOR WALL OPENING
1" = 1'-0"

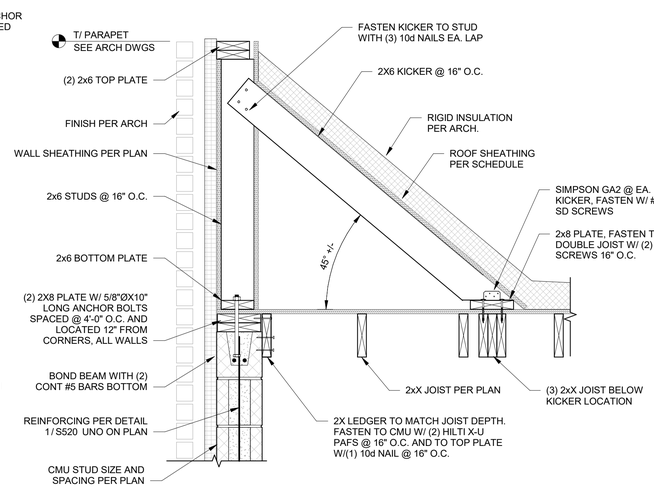
5 S542 ROOF JOISTS PARALLEL AT OVERRUN
1" = 1'-0"

6 S542 ROOF FRAMING TRANSITION AT STAIR TOWER
1" = 1'-0"

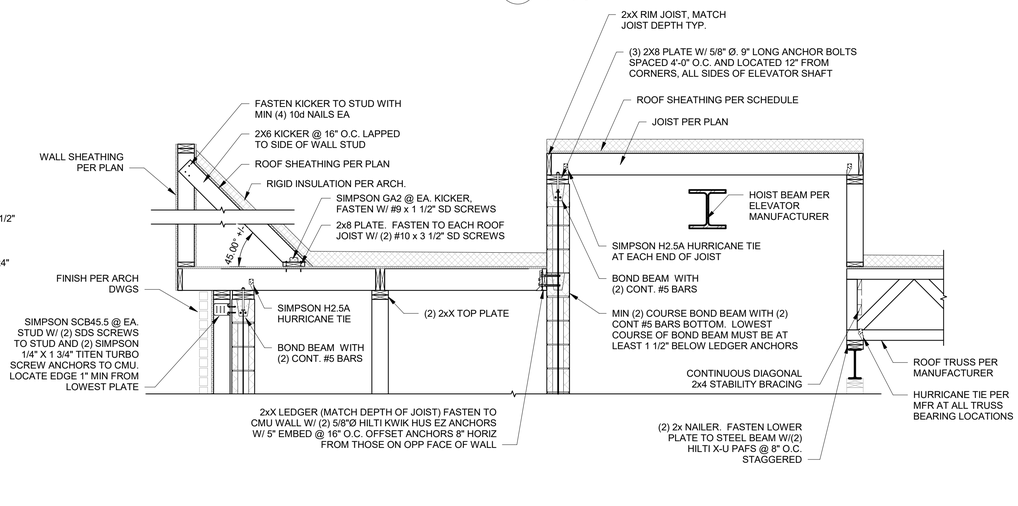
7 S542 ROOF FRAMING TRANSITION AT STAIR TOWER
1" = 1'-0"



8 S542 ROOF FRAMING AT STAIR
1" = 1'-0"



9 S542 SHORT PARAPET SECTION AT 2x ROOF FRAMING
1" = 1'-0"



10 S542 ROOF SECTION AT ELEVATOR & STAIR TOWER
1/2" = 1'-0"

6/14/2024 2:12:05 AM
Autodesk Docs://2020000333 - Discovery Park Lee's Summit/2020000333 - Rosemann - Homa2_R23.rvt

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EXPIRES: DECEMBER 31, 2024

STATE OF MISSOURI
CELESTE KAY SPICKERT
NUMBER PE-2008002213
PROFESSIONAL ENGINEER

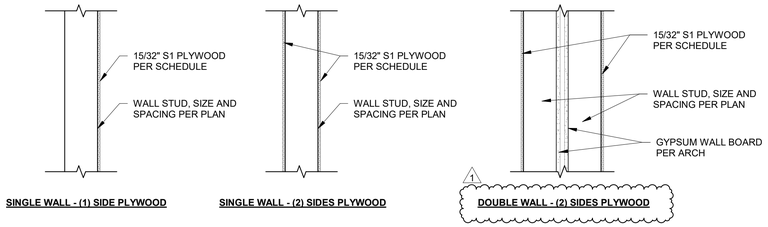
06/14/2024
Celeste Kay Spickert
PE-2008002213
Expires 12/31/2024

HOME2 SUITES BY HILTON
251 NE ALURA WAY
LEE'S SUMMIT, MISSOURI 64064

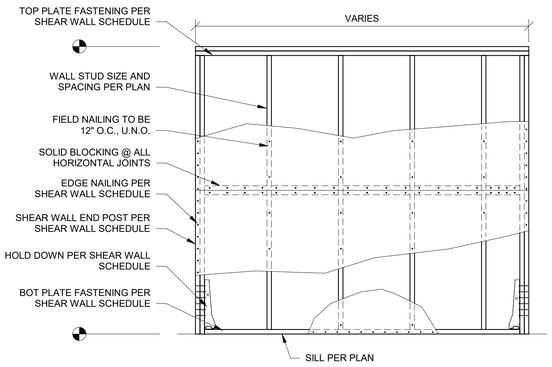
SHEET TITLE
ROOF DETAILS

PROJECT NUMBER: 2023000333

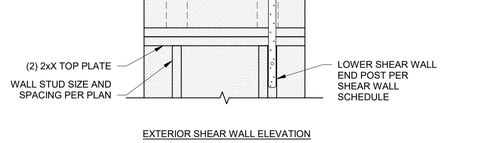
SHEET NUMBER:
S542



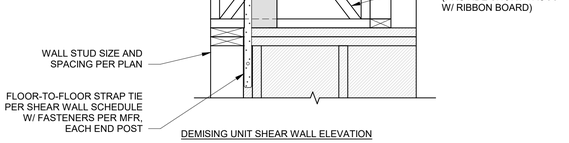
1 S550 TYPICAL SHEAR WALL SECTIONS
1" = 1'-0"



2 S550 SHEAR WALL NAILING
1/2" = 1'-0"

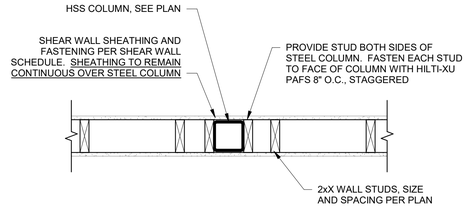


EXTERIOR SHEAR WALL ELEVATION



DEMISING UNIT SHEAR WALL ELEVATION

3 S550 FLOOR-TO-FLOOR STRAP TIE
1" = 1'-0"



1

4 S550 STEEL COLUMN IN SHEAR WALL - PLAN VIEW
1" = 1'-0"

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HOME2 SUITES BY HILTON

251 NE ALURA WAY
LEE'S SUMMIT, MISSOURI 64064

SHEET TITLE
SHEAR WALL DETAILS

PROJECT NUMBER: 2023000333

SHEET NUMBER:

S550

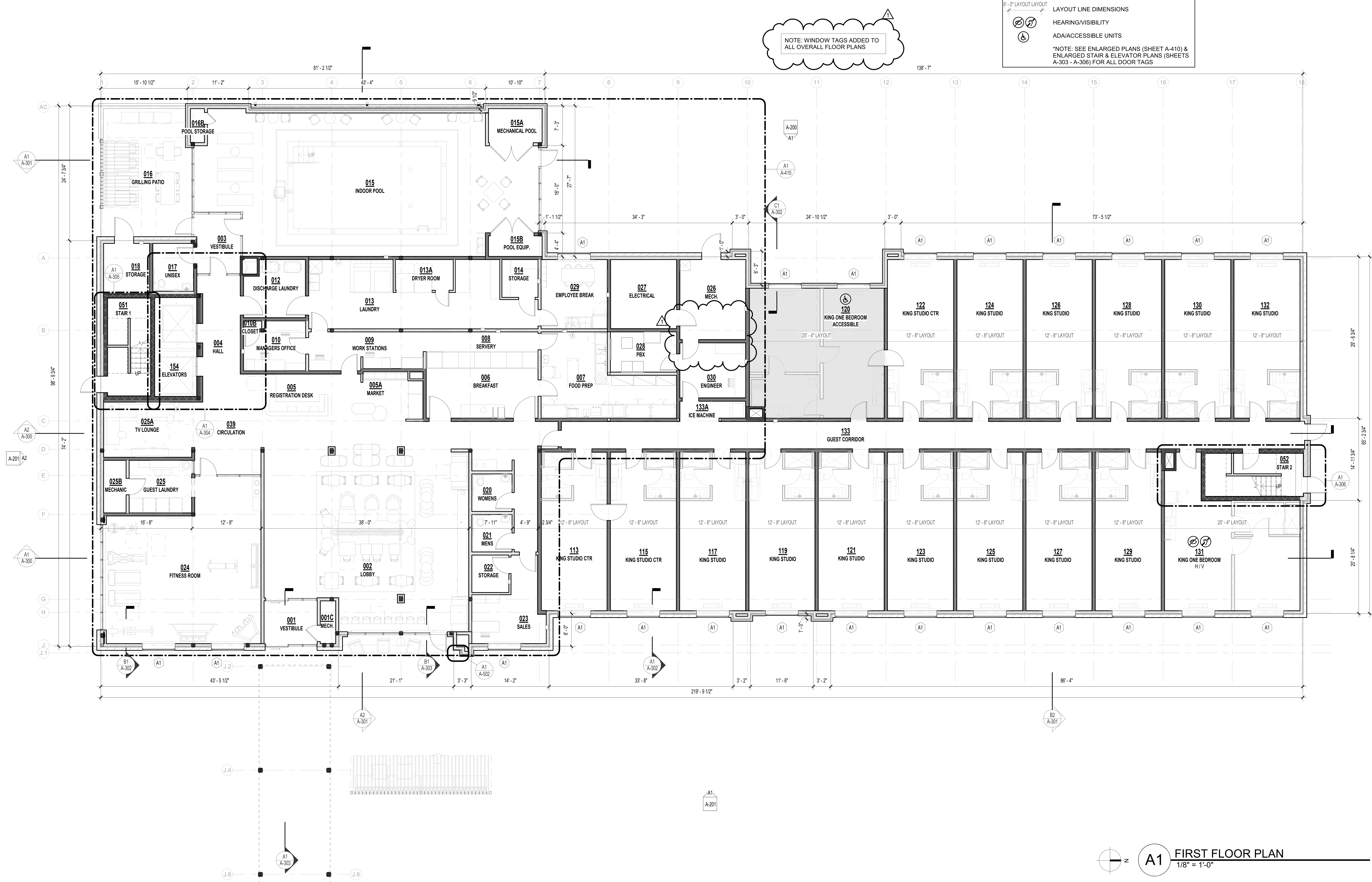
PLAN LEGEND

- PARTIAL HEIGHT PARTITION
- NON-RATED PARTITION; SEE ASSEMBLIES G-102
- 1 HR RATED PARTITION; SEE ASSEMBLIES G-102
- 2 HR RATED PARTITION; SEE ASSEMBLIES G-102
- WINDOW TYPE; SEE WINDOW SCHEDULE A-600
- DOOR TYPE; SEE DOOR SCHEDULE A-600
- PARTITION TYPE; SEE ASSEMBLIES G-102
- FRAMING DIMENSIONS
- LAYOUT LINE DIMENSIONS
- HEARING/VISIBILITY
- ADA/ACCESSIBLE UNITS

*NOTE: SEE ENLARGED PLANS (SHEET A-410) & ENLARGED STAIR & ELEVATOR PLANS (SHEETS A-303 - A-306) FOR ALL DOOR TAGS

REFERENCE G-003 FOR GENERAL NOTES

NOTE: WINDOW TAGS ADDED TO ALL OVERALL FLOOR PLANS



A1 FIRST FLOOR PLAN
1/8" = 1'-0"

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STATE OF MISSOURI
DAVID EUGENE HENDRIKSE
NUMBER
REGISTERED ARCHITECT
05/17/2024

HOME2 SUITES BY HILTON

LEE'S SUMMIT, MO

SHEET TITLE
FIRST FLOOR PLAN

PROJECT NUMBER: 22023

SHEET NUMBER:

A-101

Zone M					
AREA TO BE VENTED				**1585 S.F.**	
VENTING CALCULATION FACTOR PER **2018** IBC				300	
TOTAL REQUIRED VENTING	=	(1585 S.F. x 144) / 300 =		**761 SQ.IN.**	
HIGH ROOF VENTING	=	761 SQ.IN. x **1**	=	761 SQ.IN.	
LOW ROOF VENTING	=	761 SQ.IN. x **0**	=	0 SQ.IN.	
HIGH ROOF VENTING				**761 SQ.IN.**	**REQUIRED**
PROVIDED HIGH ROOF VENTING				**762 SQ.IN.**	**PROVIDED**
(1) Intake Vent	@	254 NFA	=	254 SQ.IN./FT NFA	
(2) Exhaust Vent	@	254 NFA	=	508 SQ.IN./FT NFA	
TOTAL ROOF VENTING PROVIDED				**762 SQ.IN.**	**PROVIDED**

ROOF PLAN LEGEND

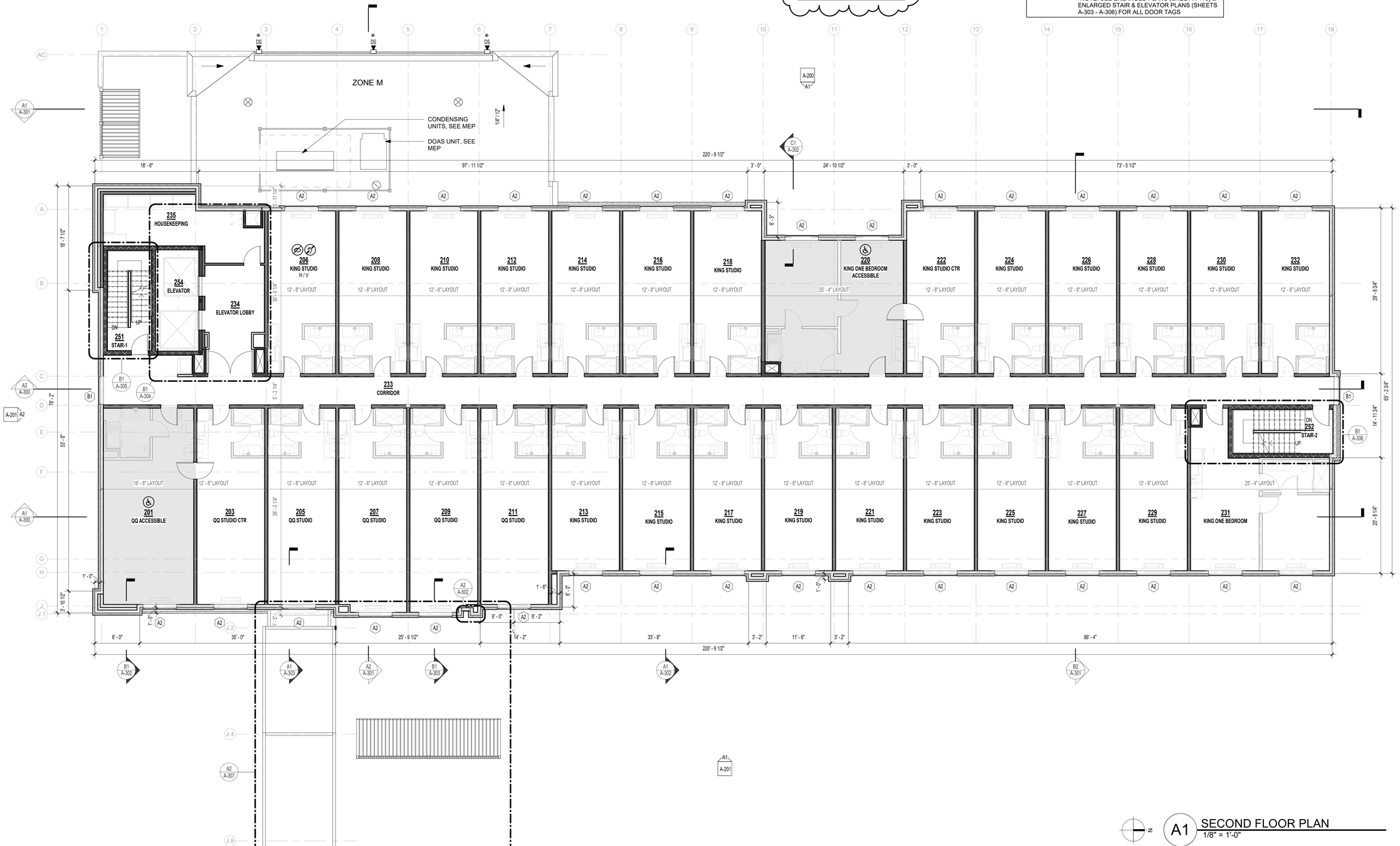
- INTAKE VENTS
- EXHAUST VENTS

PLAN LEGEND

- PARTIAL HEIGHT PARTITION
- NON-RATED PARTITION; SEE ASSEMBLIES G-102
- 1 HR RATED PARTITION; SEE ASSEMBLIES G-102
- 2 HR RATED PARTITION; SEE ASSEMBLIES G-102
- A1 / WINDOW TYPE; SEE WINDOW SCHEDULE A-600
- 101 / DOOR TYPE; SEE DOOR SCHEDULE A-600
- P7 / 6'-0" / PARTITION TYPE; SEE ASSEMBLIES G-102
- 6'-0" / FRAMING DIMENSIONS
- 6'-0" LAYOUT LAYOUT / LAYOUT LINE DIMENSIONS
- HEARING/VISIBILITY
- ADA/ACCESSIBLE UNITS
- *NOTE: SEE ENLARGED PLANS (SHEET A-410) & ENLARGED STAIR & ELEVATOR PLANS (SHEETS A-303 - A-306) FOR ALL DOOR TAGS

REFERENCE G-003 FOR GENERAL NOTES

1 NOTE: WINDOW TAGS ADDED TO ALL OVERALL FLOOR PLANS



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STATE OF MISSOURI
DAVID EUGENE HENDRIXSE
NUMBER A-7305
REGISTERED ARCHITECT
05/17/2024

PRINTS ISSUED
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HOME2 SUITES BY HILTON

LEE'S SUMMIT, MO

SHEET TITLE
SECOND FLOOR PLAN

PROJECT NUMBER: 22023

SHEET NUMBER:

A-102

A1 SECOND FLOOR PLAN
1/8" = 1'-0"

5/15/2024 3:45:05 PM
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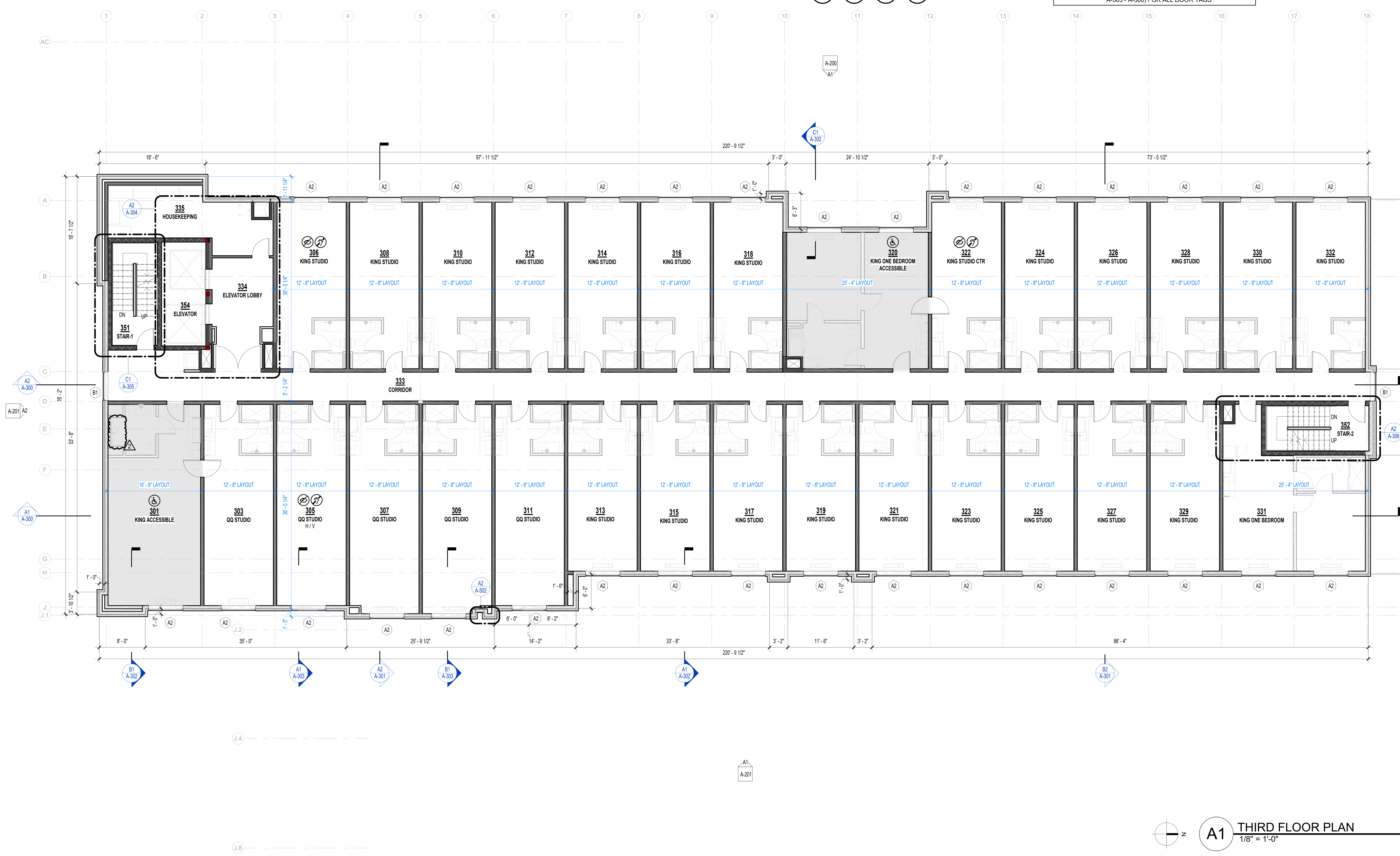
PLAN LEGEND

PARTIAL HEIGHT PARTITION	
NON-RATED PARTITION; SEE ASSEMBLIES G-102	
1 HR RATED PARTITION; SEE ASSEMBLIES G-102	
2 HR RATED PARTITION; SEE ASSEMBLIES G-102	
A1	WINDOW TYPE; SEE WINDOW SCHEDULE A-600
101	DOOR TYPE; SEE DOOR SCHEDULE A-600
P7	PARTITION TYPE; SEE ASSEMBLIES G-102
6' - 0"	FRAMING DIMENSIONS
6' - 0" LAYOUT LAYOUT	LAYOUT LINE DIMENSIONS
	HEARING/VISIBILITY
	ADA/ACCESSIBLE UNITS

*NOTE: SEE ENLARGED PLANS (SHEET A-410) & ENLARGED STAIR & ELEVATOR PLANS (SHEETS A-303 - A-306) FOR ALL DOOR TAGS

REFERENCE G-003 FOR GENERAL NOTES

NOTE: WINDOW TAGS ADDED TO ALL OVERALL FLOOR PLANS



A1 THIRD FLOOR PLAN
1/8" = 1'-0"

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HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
THIRD FLOOR PLAN

PROJECT NUMBER: 22023

SHEET NUMBER:

A-103

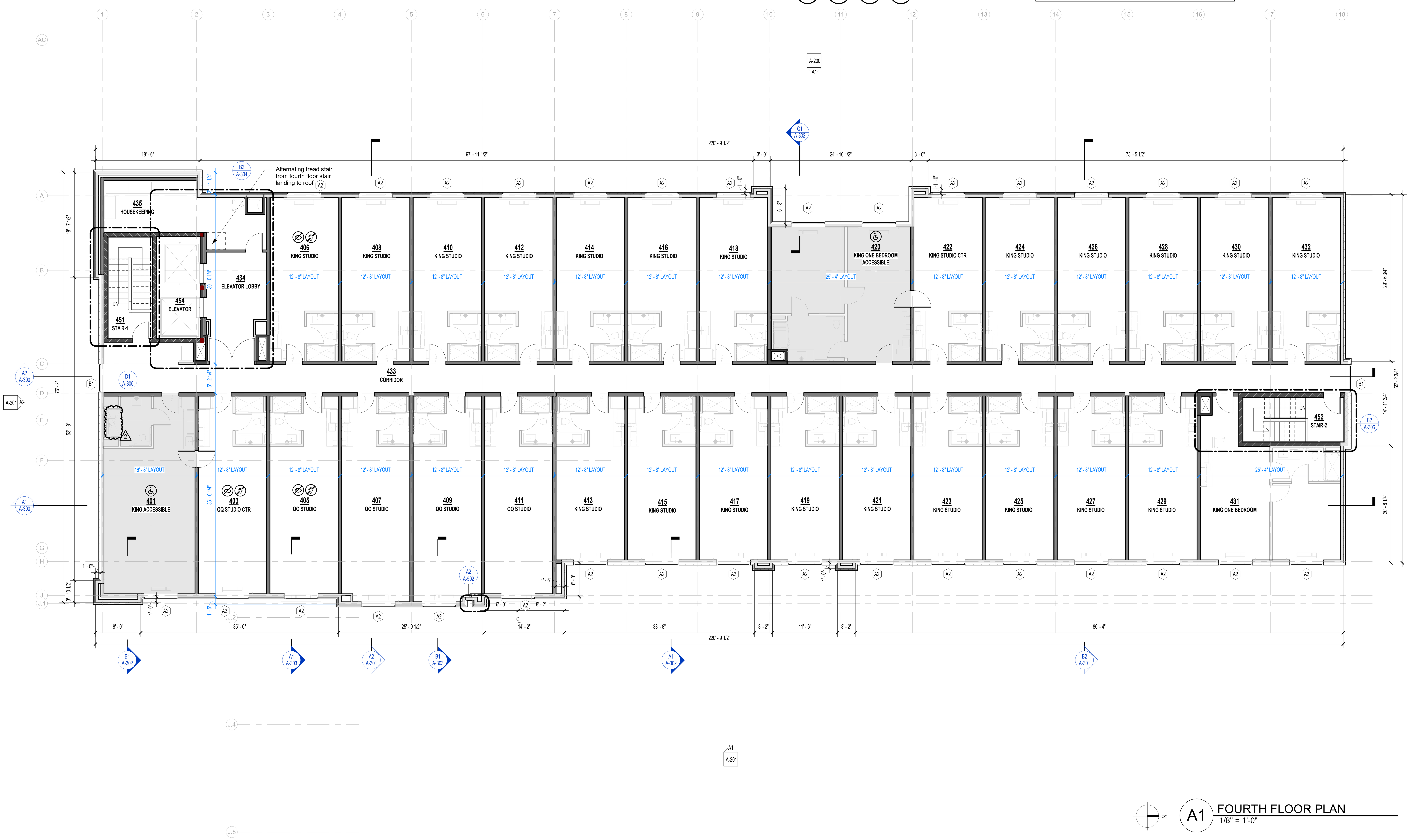
PLAN LEGEND

	PARTIAL HEIGHT PARTITION
	NON-RATED PARTITION; SEE ASSEMBLIES G-102
	1 HR RATED PARTITION; SEE ASSEMBLIES G-102
	2 HR RATED PARTITION; SEE ASSEMBLIES G-102
A1	WINDOW TYPE; SEE WINDOW SCHEDULE A-600
101	DOOR TYPE; SEE DOOR SCHEDULE A-600
P7	PARTITION TYPE; SEE ASSEMBLIES G-102
6' - 0"	FRAMING DIMENSIONS
0' - 0" LAYOUT LAYOUT	LAYOUT LINE DIMENSIONS
	HEARING/VISIBILITY
	ADA/ACCESSIBLE UNITS

*NOTE: SEE ENLARGED PLANS (SHEET A-410) & ENLARGED STAIR & ELEVATOR PLANS (SHEETS A-303 - A-306) FOR ALL DOOR TAGS

REFERENCE G-003 FOR GENERAL NOTES

NOTE: WINDOW TAGS ADDED TO ALL OVERALL FLOOR PLANS



A1 FOURTH FLOOR PLAN
1/8" = 1'-0"

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NUMBER A-7305
REGISTERED ARCHITECT
06/14/2024

HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
FOURTH FLOOR PLAN

PROJECT NUMBER: 22023

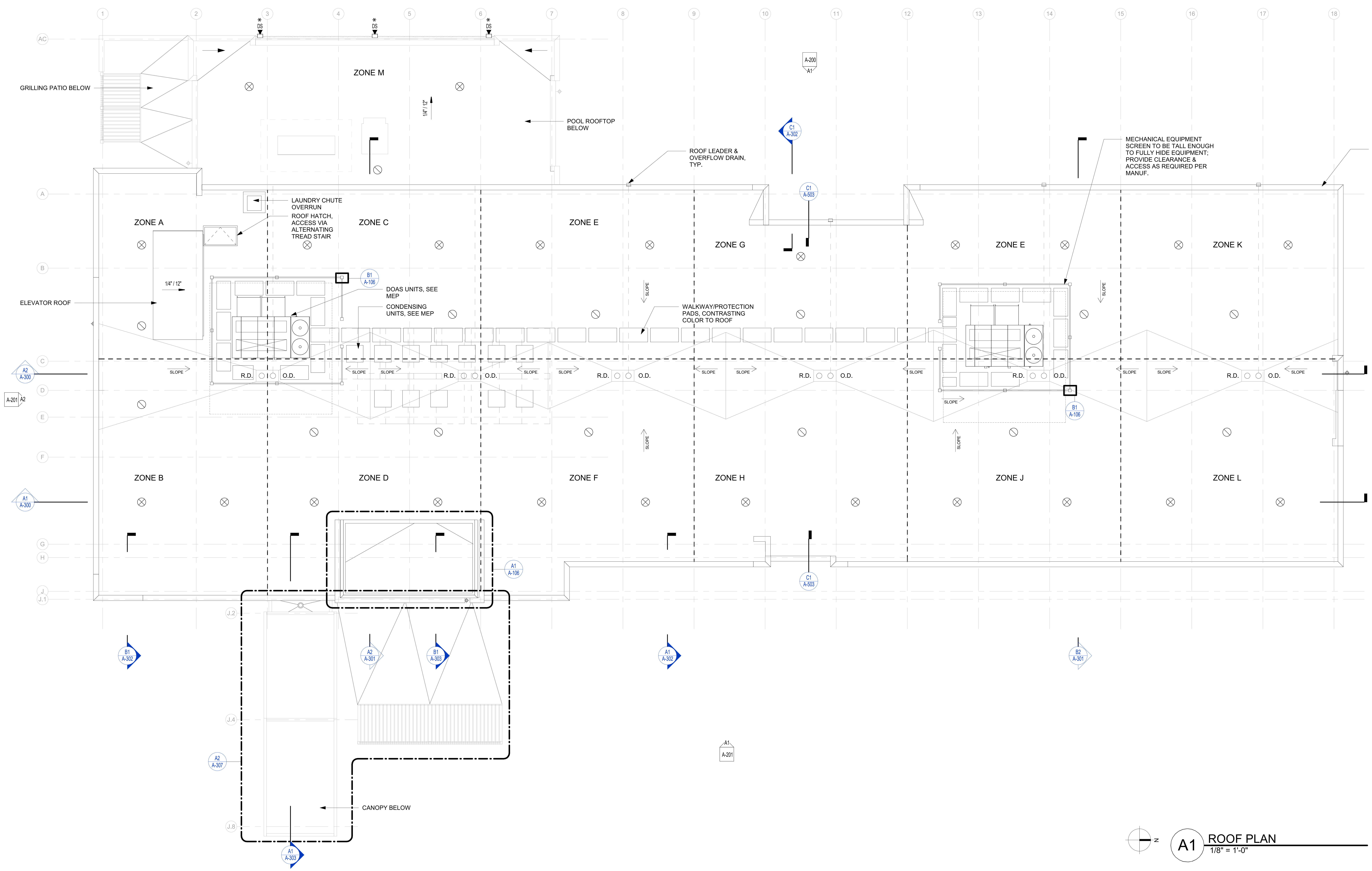
SHEET NUMBER:

A-104

ROOF PLAN LEGEND

⃠	INTAKE VENTS
⊗	EXHAUST VENTS

REFERENCE G-003 FOR GENERAL NOTES



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DAVID EUGENE HENDRICKSE
NUMBER 7305
REGISTERED ARCHITECT
04/17/2024

HOME2 SUITES BY HILTON

LEE'S SUMMIT, MO

SHEET TITLE
ROOF PLAN

PROJECT NUMBER: 22023

SHEET NUMBER:

A-105

Zone A

AREA TO BE VENTED			**955 S.F.**	
VENTING CALCULATION FACTOR PER **2018** IBC			300	
TOTAL REQUIRED VENTING	=	(955 S.F. x 144) / 300 =	**458 SQ.IN.**	
HIGH ROOF VENTING	=	458 SQ.IN. x **1** =	458 SQ.IN.	
LOW ROOF VENTING	=	458 SQ.IN. x **0** =	0 SQ.IN.	
HIGH ROOF VENTING			**458 SQ.IN.**	**REQUIRED**
PROVIDED HIGH ROOF VENTING			**508 SQ.IN.**	**PROVIDED**
(1) Intake Vent	@	254 NFA =	254 SQ.IN./FT NFA	
(1) Exhaust Vent	@	254 NFA =	254 SQ.IN./FT NFA	
TOTAL ROOF VENTING PROVIDED			**508 SQ.IN.**	**PROVIDED**

Zone B

AREA TO BE VENTED			**1264 S.F.**	
VENTING CALCULATION FACTOR PER **2018** IBC			300	
TOTAL REQUIRED VENTING	=	(1264 S.F. x 144) / 300 =	**607 SQ.IN.**	
HIGH ROOF VENTING	=	607 SQ.IN. x **1** =	607 SQ.IN.	
LOW ROOF VENTING	=	607 SQ.IN. x **0** =	0 SQ.IN.	
HIGH ROOF VENTING			**607 SQ.IN.**	**REQUIRED**
PROVIDED HIGH ROOF VENTING			**762 SQ.IN.**	**PROVIDED**
(1) Intake Vent	@	254 NFA =	254 SQ.IN./FT NFA	
(2) Exhaust Vent	@	254 NFA =	508 SQ.IN./FT NFA	
TOTAL ROOF VENTING PROVIDED			**762 SQ.IN.**	**PROVIDED**

Zone C

AREA TO BE VENTED			**1143 S.F.**	
VENTING CALCULATION FACTOR PER **2018** IBC			300	
TOTAL REQUIRED VENTING	=	(1143 S.F. x 144) / 300 =	**549 SQ.IN.**	
HIGH ROOF VENTING	=	549 SQ.IN. x **1** =	549 SQ.IN.	
LOW ROOF VENTING	=	549 SQ.IN. x **0** =	0 SQ.IN.	
HIGH ROOF VENTING			**549 SQ.IN.**	**REQUIRED**
PROVIDED HIGH ROOF VENTING			**762 SQ.IN.**	**PROVIDED**
(1) Intake Vent	@	254 NFA =	254 SQ.IN./FT NFA	
(2) Exhaust Vent	@	254 NFA =	508 SQ.IN./FT NFA	
TOTAL ROOF VENTING PROVIDED			**762 SQ.IN.**	**PROVIDED**

Zone D

AREA TO BE VENTED			**1599 S.F.**	
VENTING CALCULATION FACTOR PER **2018** IBC			300	
TOTAL REQUIRED VENTING	=	(1599 S.F. x 144) / 300 =	**768 SQ.IN.**	
HIGH ROOF VENTING	=	768 SQ.IN. x **1** =	768 SQ.IN.	
LOW ROOF VENTING	=	768 SQ.IN. x **0** =	0 SQ.IN.	
HIGH ROOF VENTING			**768 SQ.IN.**	**REQUIRED**
PROVIDED HIGH ROOF VENTING			**1016 SQ.IN.**	**PROVIDED**
(2) Intake Vent	@	254 NFA =	508 SQ.IN./FT NFA	
(2) Exhaust Vent	@	254 NFA =	508 SQ.IN./FT NFA	
TOTAL ROOF VENTING PROVIDED			**1016 SQ.IN.**	**PROVIDED**

Zone E

AREA TO BE VENTED			**1143 S.F.**	
VENTING CALCULATION FACTOR PER **2018** IBC			300	
TOTAL REQUIRED VENTING	=	(1143 S.F. x 144) / 300 =	**549 SQ.IN.**	
HIGH ROOF VENTING	=	549 SQ.IN. x **1** =	549 SQ.IN.	
LOW ROOF VENTING	=	549 SQ.IN. x **0** =	0 SQ.IN.	
HIGH ROOF VENTING			**549 SQ.IN.**	**REQUIRED**
PROVIDED HIGH ROOF VENTING			**762 SQ.IN.**	**PROVIDED**
(1) Intake Vent	@	254 NFA =	254 SQ.IN./FT NFA	
(2) Exhaust Vent	@	254 NFA =	508 SQ.IN./FT NFA	
TOTAL ROOF VENTING PROVIDED			**762 SQ.IN.**	**PROVIDED**

Zone F

AREA TO BE VENTED			**1460 S.F.**	
VENTING CALCULATION FACTOR PER **2018** IBC			300	
TOTAL REQUIRED VENTING	=	(1460 S.F. x 144) / 300 =	**701 SQ.IN.**	
HIGH ROOF VENTING	=	701 SQ.IN. x **1** =	701 SQ.IN.	
LOW ROOF VENTING	=	701 SQ.IN. x **0** =	0 SQ.IN.	
HIGH ROOF VENTING			**701 SQ.IN.**	**REQUIRED**
PROVIDED HIGH ROOF VENTING			**762 SQ.IN.**	**PROVIDED**
(1) Intake Vent	@	254 NFA =	254 SQ.IN./FT NFA	
(2) Exhaust Vent	@	254 NFA =	508 SQ.IN./FT NFA	
TOTAL ROOF VENTING PROVIDED			**762 SQ.IN.**	**PROVIDED**

Zone G

AREA TO BE VENTED			**982 S.F.**	
VENTING CALCULATION FACTOR PER **2018** IBC			300	
TOTAL REQUIRED VENTING	=	(982 S.F. x 144) / 300 =	**471 SQ.IN.**	
HIGH ROOF VENTING	=	471 SQ.IN. x **1** =	471 SQ.IN.	
LOW ROOF VENTING	=	471 SQ.IN. x **0** =	0 SQ.IN.	
HIGH ROOF VENTING			**471 SQ.IN.**	**REQUIRED**
PROVIDED HIGH ROOF VENTING			**508 SQ.IN.**	**PROVIDED**
(1) Intake Vent	@	254 NFA =	254 SQ.IN./FT NFA	
(1) Exhaust Vent	@	254 NFA =	254 SQ.IN./FT NFA	
TOTAL ROOF VENTING PROVIDED			**508 SQ.IN.**	**PROVIDED**

Zone H

AREA TO BE VENTED			**1357 S.F.**	
VENTING CALCULATION FACTOR PER **2018** IBC			300	
TOTAL REQUIRED VENTING	=	(1357 S.F. x 144) / 300 =	**651 SQ.IN.**	
HIGH ROOF VENTING	=	651 SQ.IN. x **1** =	651 SQ.IN.	
LOW ROOF VENTING	=	651 SQ.IN. x **0** =	0 SQ.IN.	
HIGH ROOF VENTING			**651 SQ.IN.**	**REQUIRED**
PROVIDED HIGH ROOF VENTING			**762 SQ.IN.**	**PROVIDED**
(1) Intake Vent	@	254 NFA =	254 SQ.IN./FT NFA	
(2) Exhaust Vent	@	254 NFA =	508 SQ.IN./FT NFA	
TOTAL ROOF VENTING PROVIDED			**762 SQ.IN.**	**PROVIDED**

Zone J

AREA TO BE VENTED			**1371 S.F.**	
VENTING CALCULATION FACTOR PER **2018** IBC			300	
TOTAL REQUIRED VENTING	=	(1371 S.F. x 144) / 300 =	**658 SQ.IN.**	
HIGH ROOF VENTING	=	658 SQ.IN. x **1** =	658 SQ.IN.	
LOW ROOF VENTING	=	658 SQ.IN. x **0** =	0 SQ.IN.	
HIGH ROOF VENTING			**658 SQ.IN.**	**REQUIRED**
PROVIDED HIGH ROOF VENTING			**762 SQ.IN.**	**PROVIDED**
(1) Intake Vent	@	254 NFA =	254 SQ.IN./FT NFA	
(2) Exhaust Vent	@	254 NFA =	508 SQ.IN./FT NFA	
TOTAL ROOF VENTING PROVIDED			**762 SQ.IN.**	**PROVIDED**

Zone K

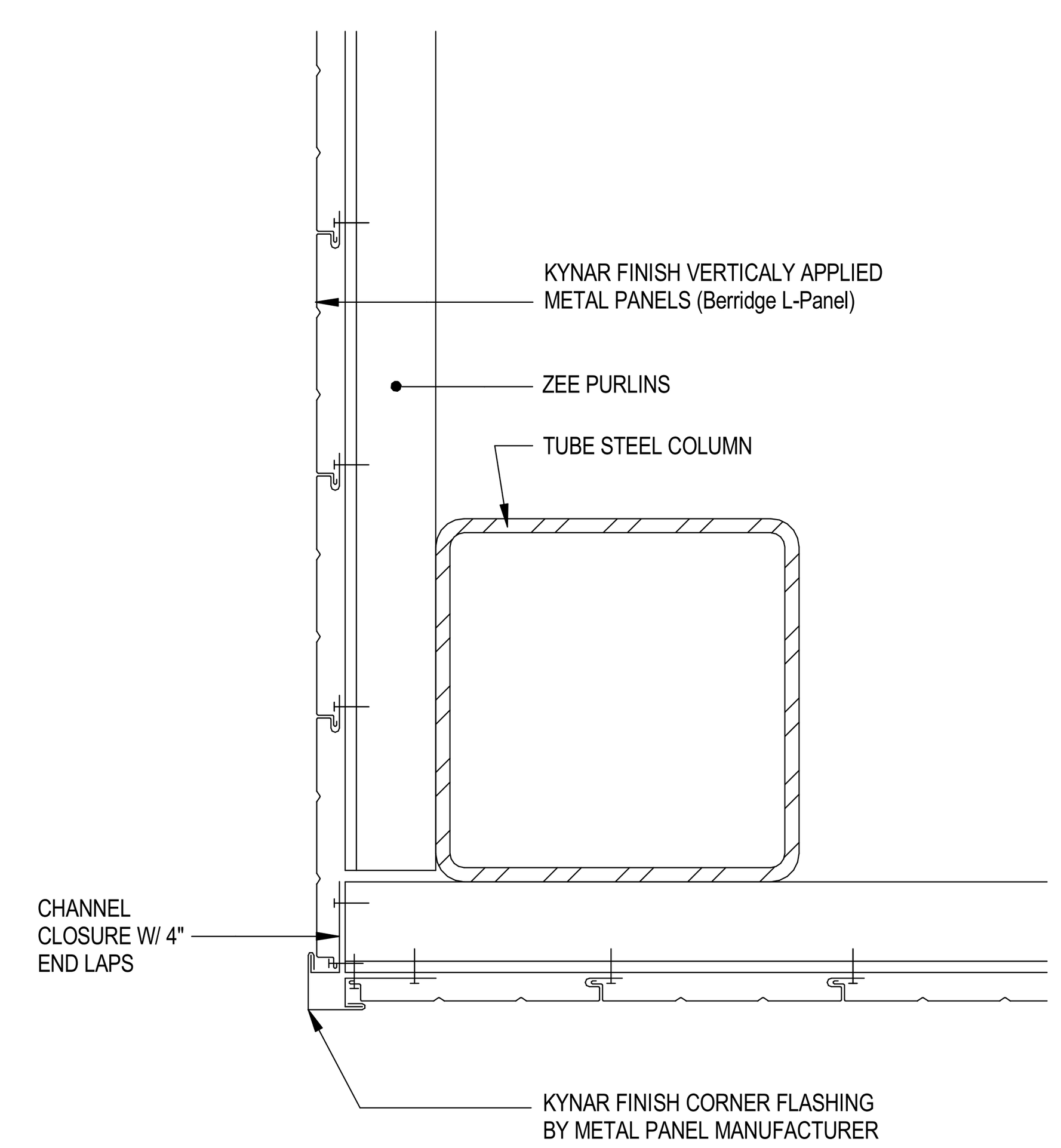
AREA TO BE VENTED			**1163 S.F.**	
VENTING CALCULATION FACTOR PER **2018** IBC			300	
TOTAL REQUIRED VENTING	=	(1163 S.F. x 144) / 300 =	**558 SQ.IN.**	
HIGH ROOF VENTING	=	558 SQ.IN. x **1** =	558 SQ.IN.	
LOW ROOF VENTING	=	558 SQ.IN. x **0** =	0 SQ.IN.	
HIGH ROOF VENTING			**558 SQ.IN.**	**REQUIRED**
PROVIDED HIGH ROOF VENTING			**762 SQ.IN.**	**PROVIDED**
(1) Intake Vent	@	254 NFA =	254 SQ.IN./FT NFA	
(2) Exhaust Vent	@	254 NFA =	508 SQ.IN./FT NFA	
TOTAL ROOF VENTING PROVIDED			**762 SQ.IN.**	**PROVIDED**

Zone L

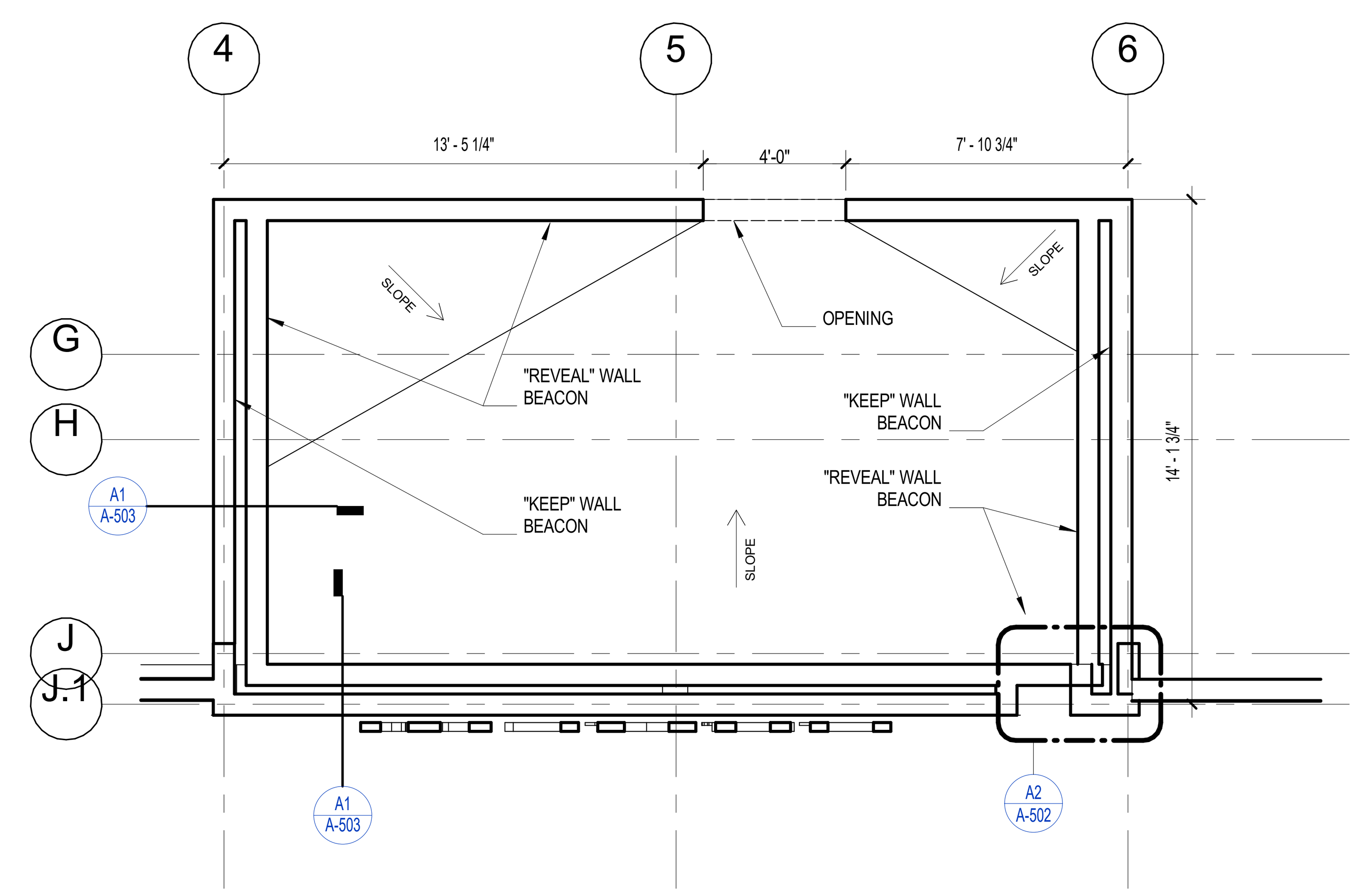
AREA TO BE VENTED			**1395 S.F.**	
VENTING CALCULATION FACTOR PER **2018** IBC			300	
TOTAL REQUIRED VENTING	=	(1395 S.F. x 144) / 300 =	**670 SQ.IN.**	
HIGH ROOF VENTING	=	670 SQ.IN. x **1** =	670 SQ.IN.	
LOW ROOF VENTING	=	670 SQ.IN. x **0** =	0 SQ.IN.	
HIGH ROOF VENTING			**670 SQ.IN.**	**REQUIRED**
PROVIDED HIGH ROOF VENTING			**762 SQ.IN.**	**PROVIDED**
(1) Intake Vent	@	254 NFA =	254 SQ.IN./FT NFA	
(2) Exhaust Vent	@	254 NFA =	508 SQ.IN./FT NFA	
TOTAL ROOF VENTING PROVIDED			**762 SQ.IN.**	**PROVIDED**

Zone M

AREA TO BE VENTED			**1585 S.F.**	
VENTING CALCULATION FACTOR PER **2018** IBC			300	
TOTAL REQUIRED VENTING	=	(1585 S.F. x 144) / 300 =	**761 SQ.IN.**	
HIGH ROOF VENTING	=	761 SQ.IN. x **1** =	761 SQ.IN.	
LOW ROOF VENTING	=	761 SQ.IN. x **0** =	0 SQ.IN.	
HIGH ROOF VENTING			**761 SQ.IN.**	**REQUIRED**
PROVIDED HIGH ROOF VENTING			**762 SQ.IN.**	**PROVIDED**
(1) Intake Vent	@	254 NFA =	254 SQ.IN./FT NFA	
(2) Exhaust Vent	@	254 NFA =	508 SQ.IN./FT NFA	
TOTAL ROOF VENTING PROVIDED			**762 SQ.IN.**	**PROVIDED**



B1 MECHANICAL ROOF SCREEN
1 1/2" = 1'-0"



A1 ROOF PLAN AT BEACON
1/4" = 1'-0"

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STATE OF MISSOURI
DAVID EUGENE HENDRICKSE
NUMBER A-7305
REGISTERED ARCHITECT
04/17/2024

HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

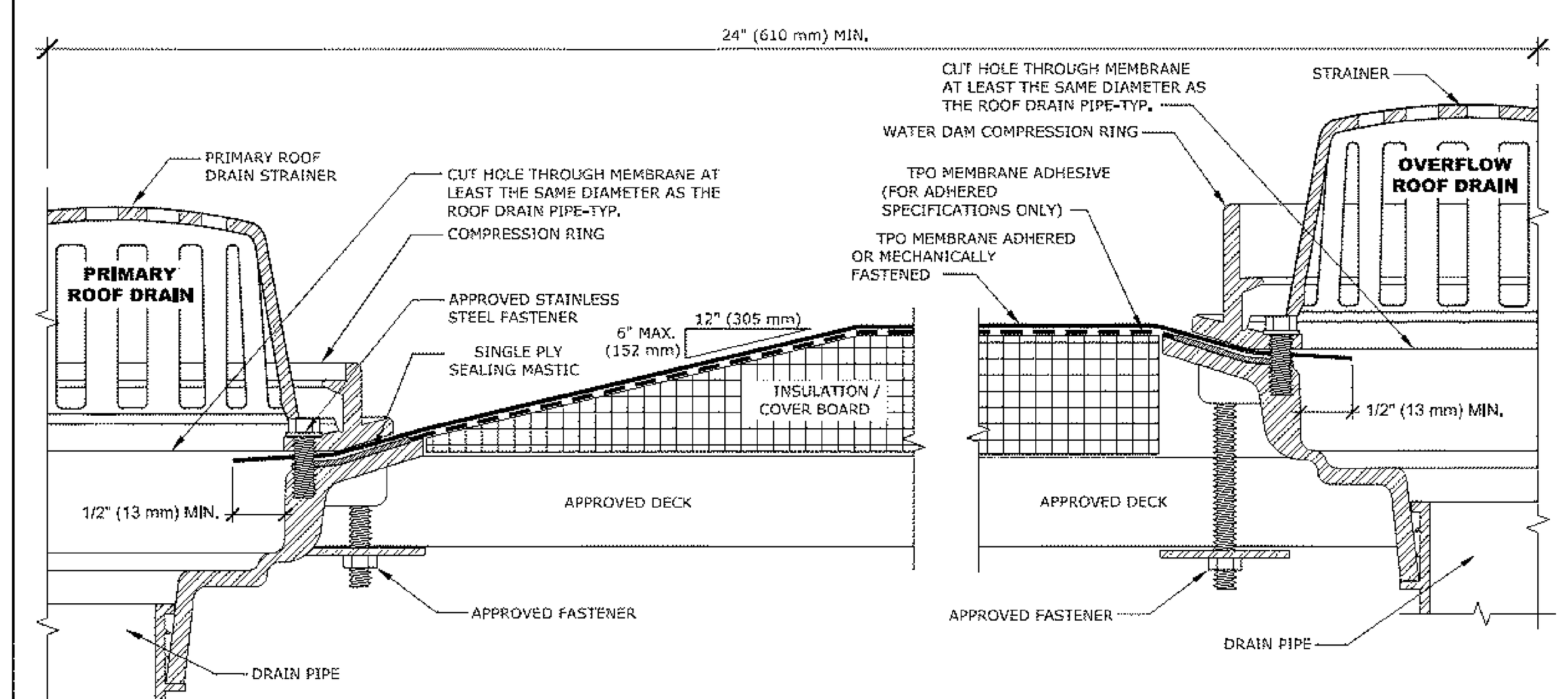
SHEET TITLE
ROOF VENT CALCULATIONS & DETAILS

PROJECT NUMBER: 22023

SHEET NUMBER:

A-106

NOTE: DETAILS PROVIDED FOR REFERENCE ONLY. FOLLOW MANUF. RECOMMENDED DETAILS FOR FLASHING/PENETRATION/SEALING DETAILS, TYP.

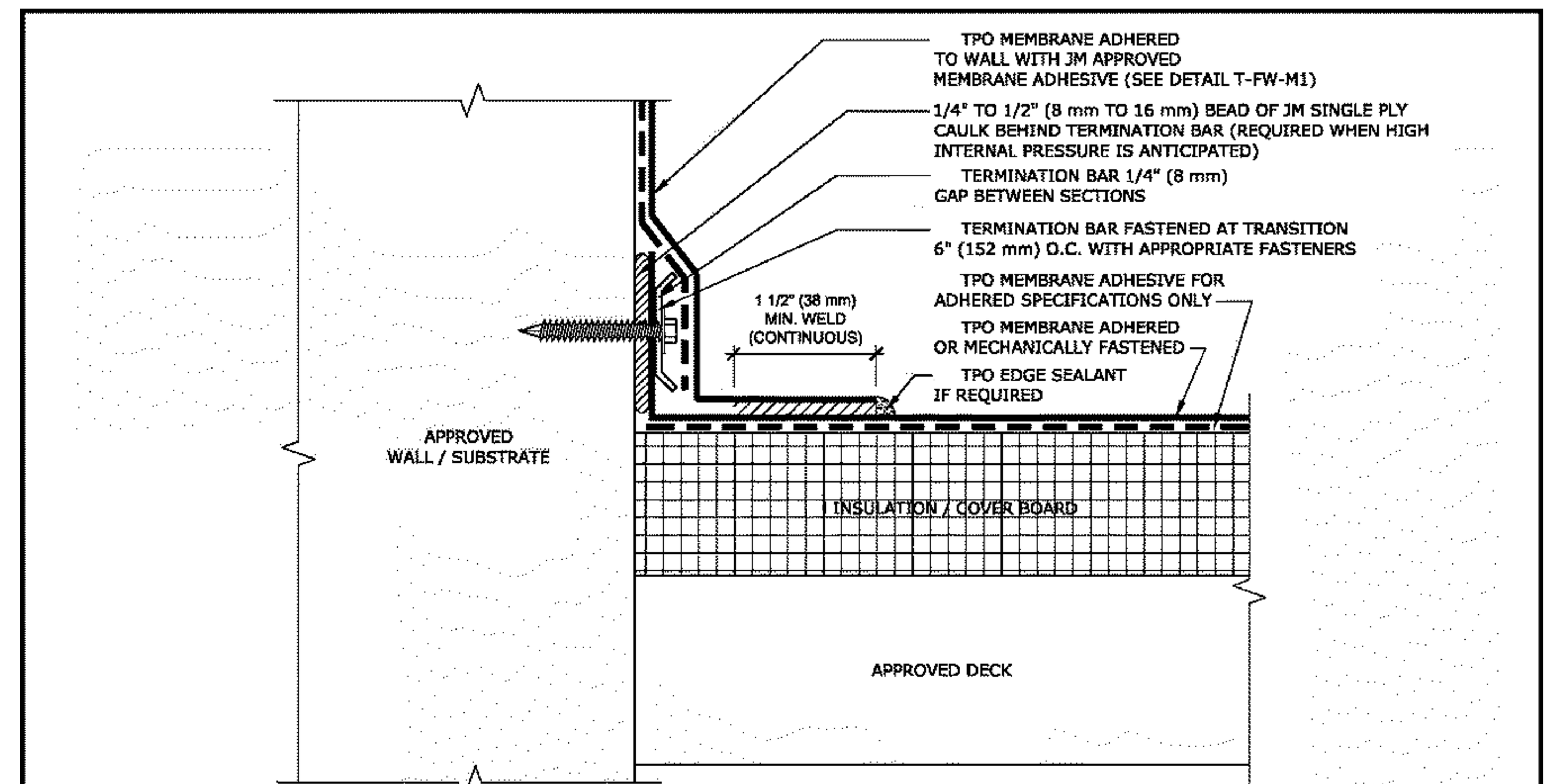


NOTES:

2. PLEASE SEE SINGLE PLY FLASHING SPECIFICATIONS FOR A FULL DESCRIPTION OF INSTALLATION INSTRUCTIONS AND REQUIREMENTS WHICH ARE CONSIDERED A PART OF THIS DETAIL.
3. ANY CARPENTRY OR METAL WORK SHOULD BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS AND/OR PROJECT SPECIFICATIONS. THESE COMPONENTS SHOULD BE REVIEWED AND APPROVED BY A LICENSED DESIGN PROFESSIONAL.
4. DRAIN AREA MUST BE PROPERLY TAPERED SO THAT THE DRAIN FLASHING IS NOT INSTALLED UNDER TENSION.
5. NO SEAMS OR FOLDS UNDER THE COMPRESSION RING.

PRIMARY AND OVERFLOW ROOF DRAIN

DRAWING NO. **T-DV-17** DRAINS-VENTS | MEMBRANE TYPE: TPO | SCALE N.T.S



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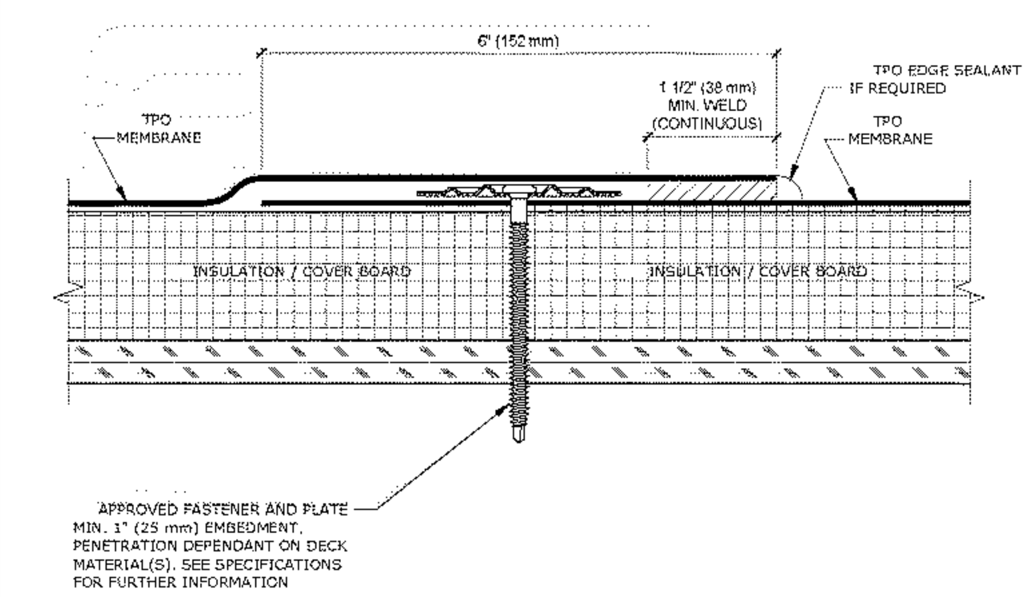
4. TPO EDGE SEALANT IS REQUIRED ON ALL CUT OR NON-ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY CUT MEMBRANE (SEE DETAIL T-MS-01).
5. THIS DETAIL IS ALSO SUITABLE FOR TERMINATION OF FLEECE BACKED MEMBRANES. NON FLEECE BACK MEMBRANE IS REQUIRED FOR WALL FLASHINGS.

MEMBRANE FLASHING BASE TIE-IN (HIGH INTERNAL PRESSURE)

DRAWING NO. **T-FW-B5** REPLACES TB-26A | MEMBRANE TYPE: TPO | SCALE N.T.S



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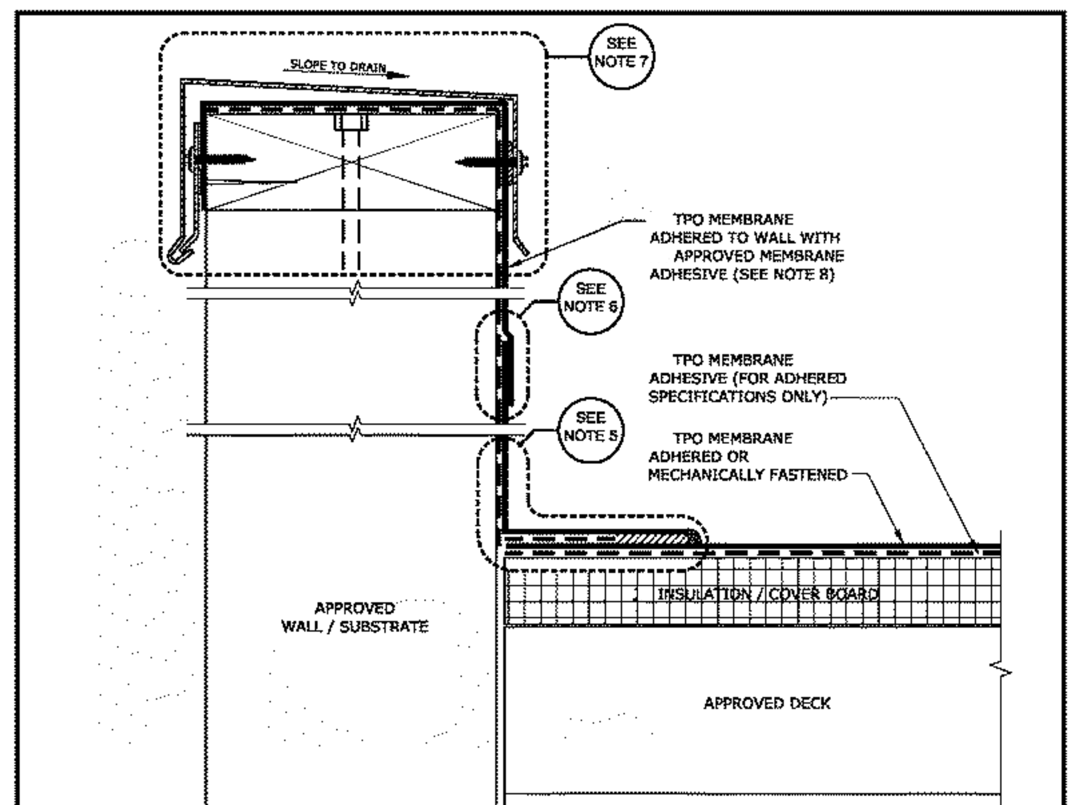
4. TPO EDGE SEALANT IS REQUIRED ON ALL CUT OR NON-ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY CUT MEMBRANE (SEE DETAIL T-MS-01).

IN LAP FASTENING METHOD-PLYWOOD DECK

DRAWING NO. **T-MS-03** REPLACES TA-1A | MEMBRANE TYPE: TPO | SCALE N.T.S



NOTES:

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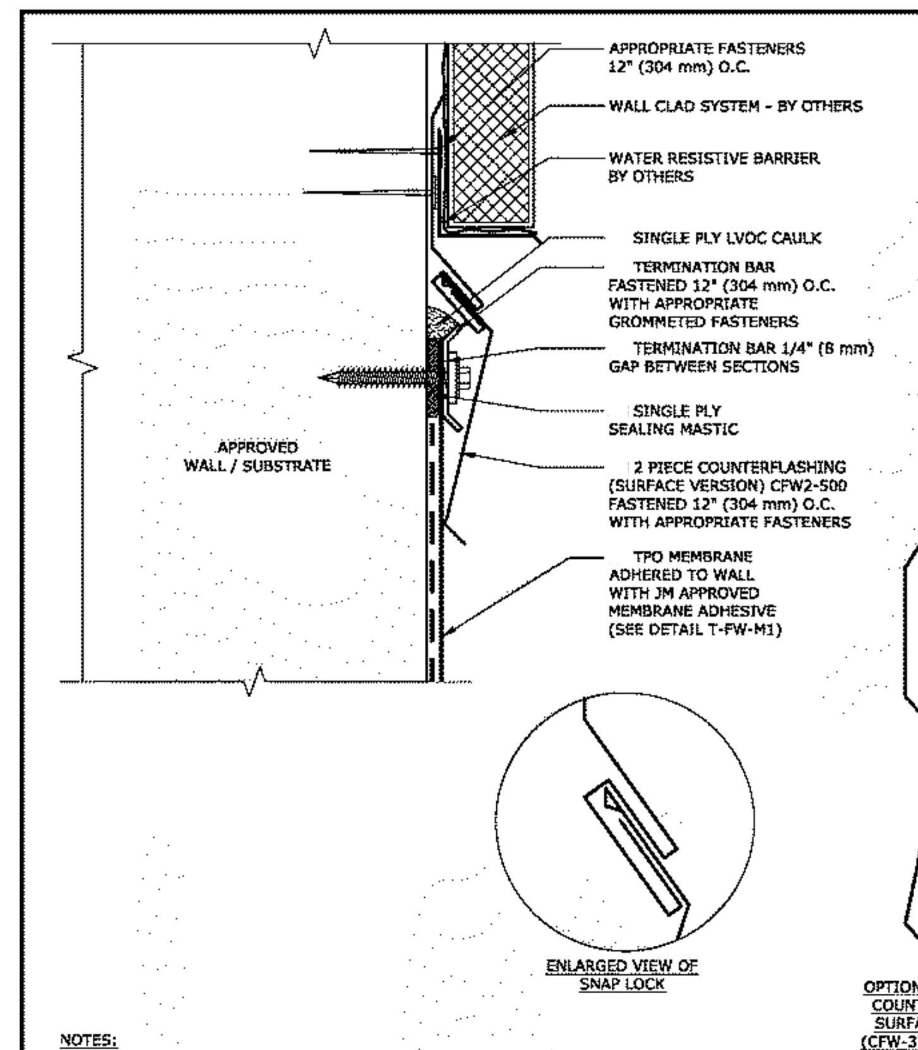
4. TPO EDGE SEALANT IS REQUIRED ON ALL CUT OR NON-ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY CUT MEMBRANE (SEE DETAIL T-MS-01).
5. FOR APPROVED BASE FLASHING FASTENING METHODS SEE T-FW-B DETAILS. A SUFFICIENT BACKER FASTENING STRIP MUST BE INSTALLED BEHIND SUBSTRATES DIRECTLY TO STUDS FOR INSTALLATION OF TERMINATION BARS AND FLASHINGS WHEN SUBSTRATES WILL NOT SUPPORT A PROPER, SECURE INSTALLATION. SEE DETAIL T-FW-M2I FOR BACKER DETAIL.
6. FOR APPROVED INTERMEDIATE FLASHING FASTENING METHODS SEE T-FW-I DETAILS. MINIMUM FLASHING TERMINATION HEIGHT IS 8" (203 mm) ABOVE ROOF SURFACE. INTERMEDIATE ADHERED MEMBRANE FASTENING REQUIRED AT 5'-0" (1.52 m) INTERVALS MAXIMUM, AND 18" (457 mm) HIGH MAXIMUM FOR NON ADHERED MEMBRANE ON CMU, BRICK, SMOOTH CONCRETE WALLS, OR ANY APPROVED SUBSTRATE, IE. PLYWOOD, SECUROCK®GYPSUM-FIBER AND DENSDECK®. SEE DETAIL T-FW-M2I FOR APPROVED FASTENING METHODS.
7. FOR APPROVED TOP OF WALL FLASHING METHODS SEE T-FW-T DETAILS.
8. APPROVED ADHESIVES FOR USE ON VERTICAL FLASHING APPLICATIONS INCLUDES JM LVOC MEMBRANE ADHESIVE (TPO & EPDM), MEMBRANE BONDING ADHESIVE (TPO & EPDM), AND JM TPO WATER BASED MEMBRANE ADHESIVE.

TPO BASE & WALL FLASHING WITH COPING

DRAWING NO. **T-FW-M1** NEW DETAIL | MEMBRANE TYPE: TPO | SCALE N.T.S



NOTES:

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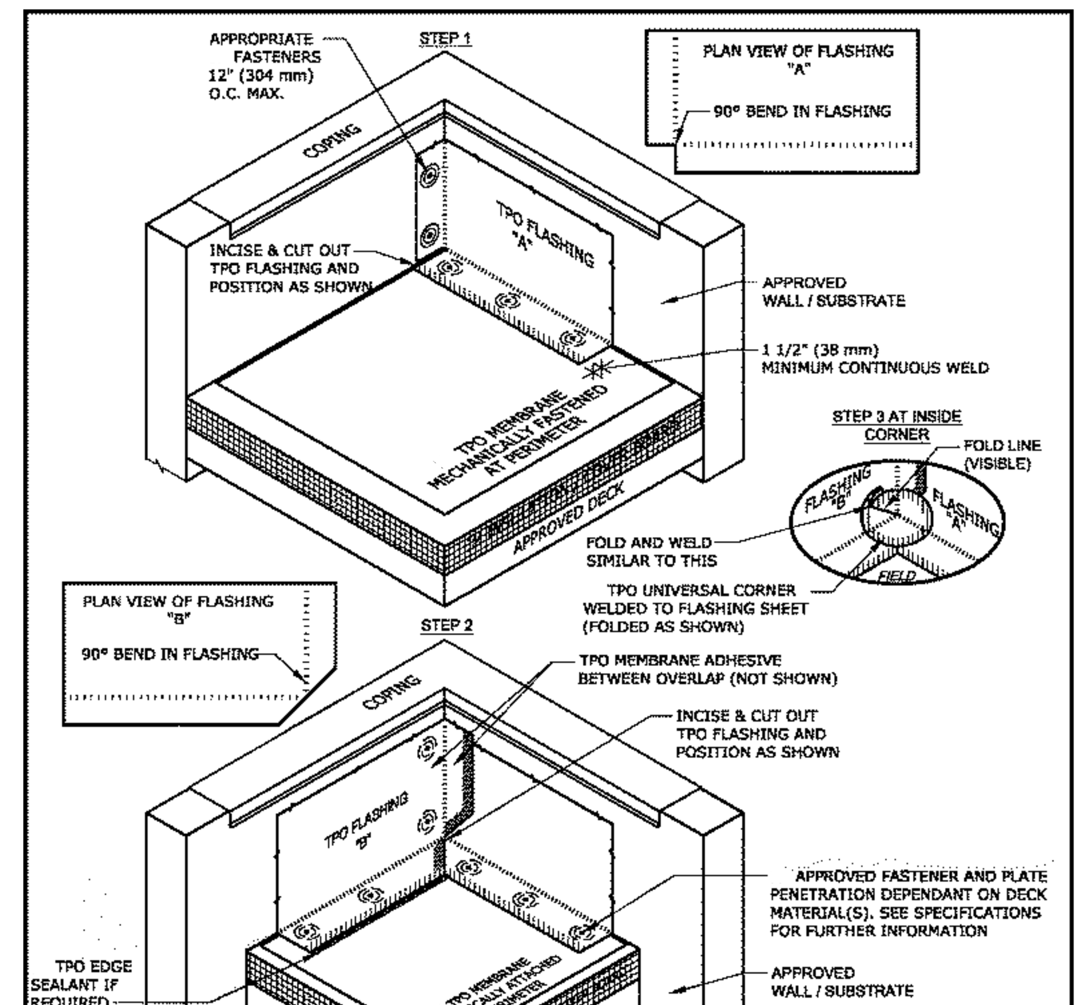
3. ANY CARPENTRY OR METAL WORK SHOULD BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS AND/OR PROJECT SPECIFICATIONS. THESE COMPONENTS SHOULD BE REVIEWED AND APPROVED BY A LICENSED DESIGN PROFESSIONAL.
4. ALL SEALANTS / CAULKING SHALL BE PERIODICALLY INSPECTED AND MAINTAINED BY THE BUILDING OWNER THROUGHOUT THE LIFE OF THE ROOF.
5. MINIMUM FLASHING HEIGHT IS 8" (203 mm) ABOVE ROOF SURFACE.

TPO INTERMEDIATE TERMINATION BELOW WALL CLADDING

DRAWING NO. **T-FW-I11** NEW DETAIL | MEMBRANE TYPE: TPO | SCALE N.T.S



NOTES:

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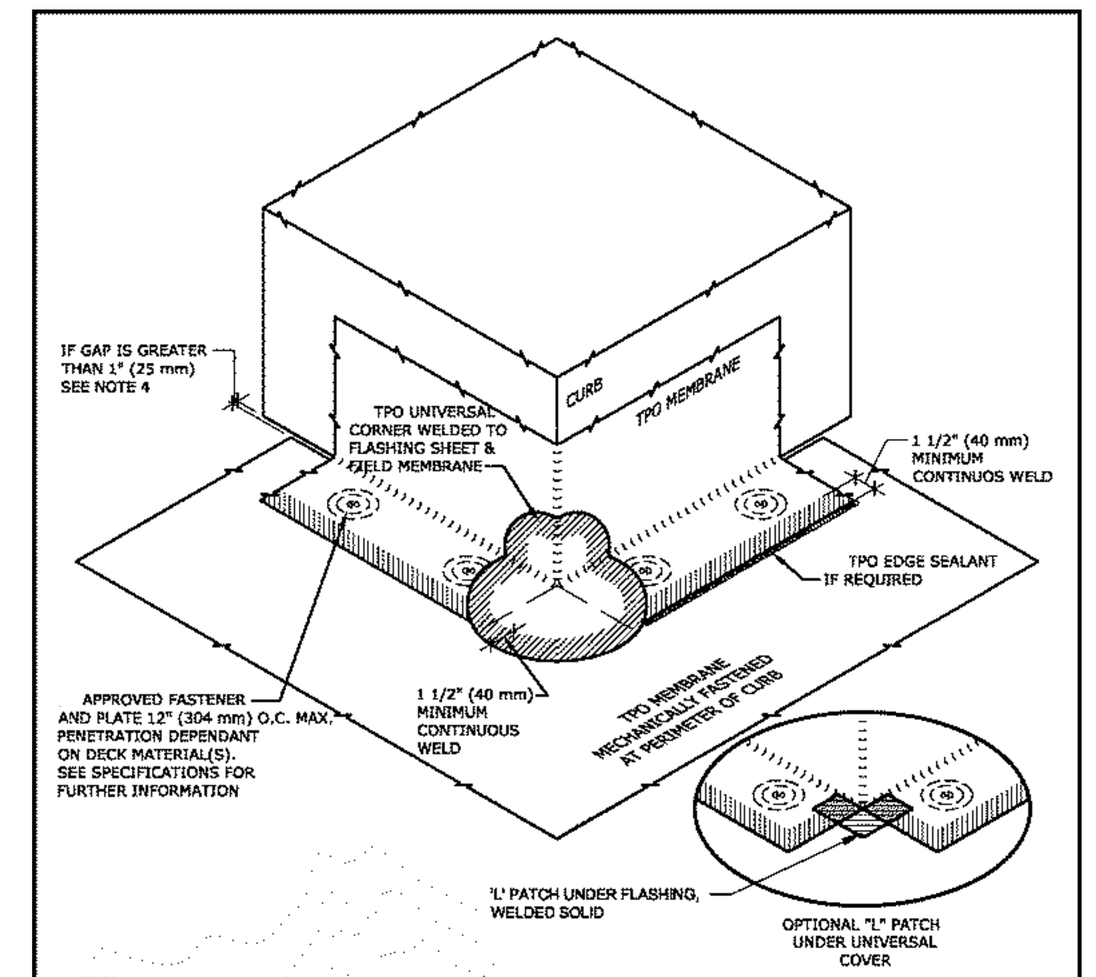
4. TPO EDGE SEALANT IS REQUIRED ON ALL CUT OR NON ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY CUT EDGES (SEE DETAIL T-MS-01).

INSIDE CORNER

DRAWING NO. **T-FC-04** REPLACES TF-63 | MEMBRANE TYPE: TPO | SCALE N.T.S



NOTES:

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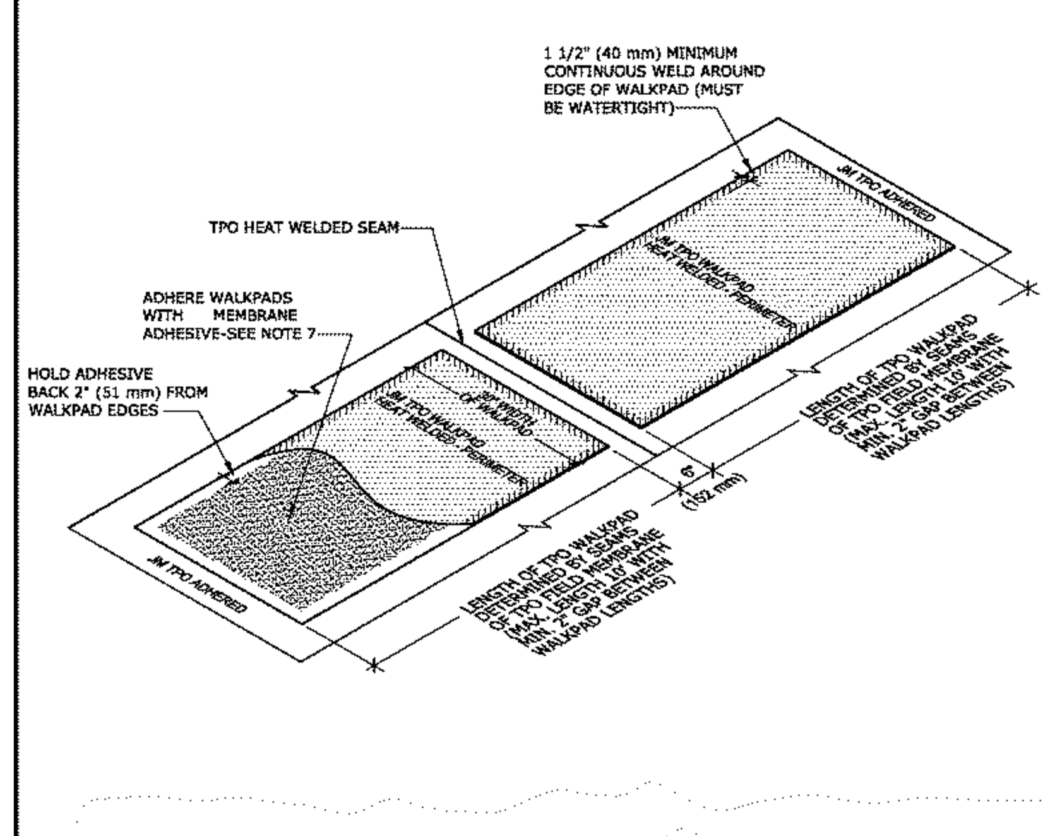
4. IF GAP OR CUT IN MEMBRANE IS GREATER THAN 1" UNDER TPO UNIVERSAL CORNER, AN "L" PATCH THAT EXTENDS OUT ONTO THE MEMBRANE A MINIMUM OF 2" MUST BE INSTALLED AT OUTSIDE CORNER. ("L" PATCH SHOWN AT RIGHT WITHOUT TPO UNIVERSAL CORNER)
5. TPO EDGE SEALANT IS REQUIRED ON ALL CUT OR NON ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCULDES FACTORY CUT MEMBRANE (SEE DETAIL T-MS-01).

OUTSIDE CORNER

DRAWING NO. **T-FC-03** REPLACES TF-62A | MEMBRANE TYPE: TPO | SCALE N.T.S



NOTES:

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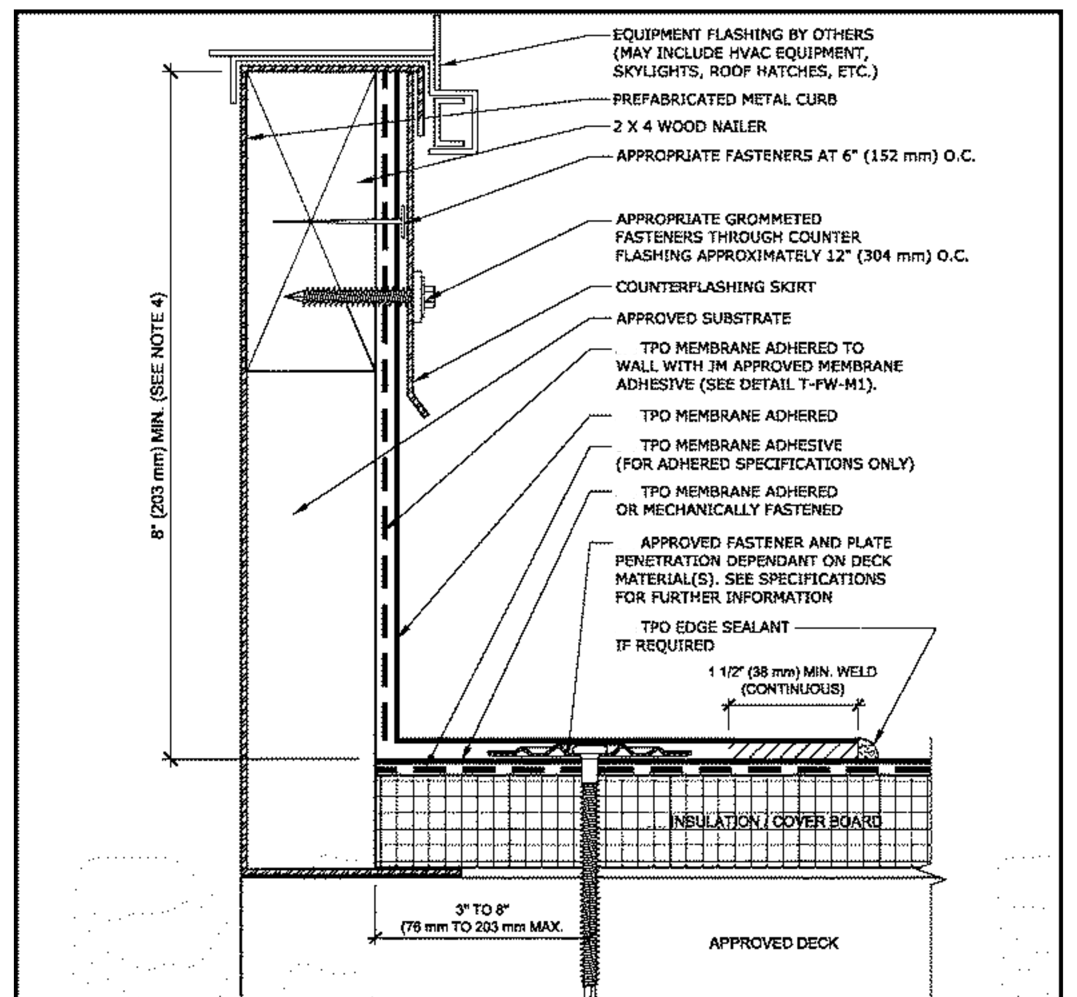
4. TPO EDGE SEALANT IS REQUIRED ON ALL CUT OR NON-ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY CUT MEMBRANE (SEE DETAIL T-MS-01).
5. CLEAN MEMBRANE SURFACE PRIOR TO WALKPAD INSTALLATION WITH TPO MEMBRANE CLEANER.
6. DO NOT INSTALL WALKPADS OVER MEMBRANE SEAMS.
7. APPROVED ADHESIVES FOR ADHERING TPO WALKPADS ARE JM LVOC MEMBRANE ADHESIVE (TPO & EPDM), MEMBRANE BONDING ADHESIVE (TPO & EPDM) AND JM TPO WATER BASED MEMBRANE ADHESIVE.

TPO WALKPADS OVER ADHERED TPO MEMBRANE

DRAWING NO. **T-PT-05** REPLACES TM-93A | MEMBRANE TYPE: TPO | SCALE N.T.S



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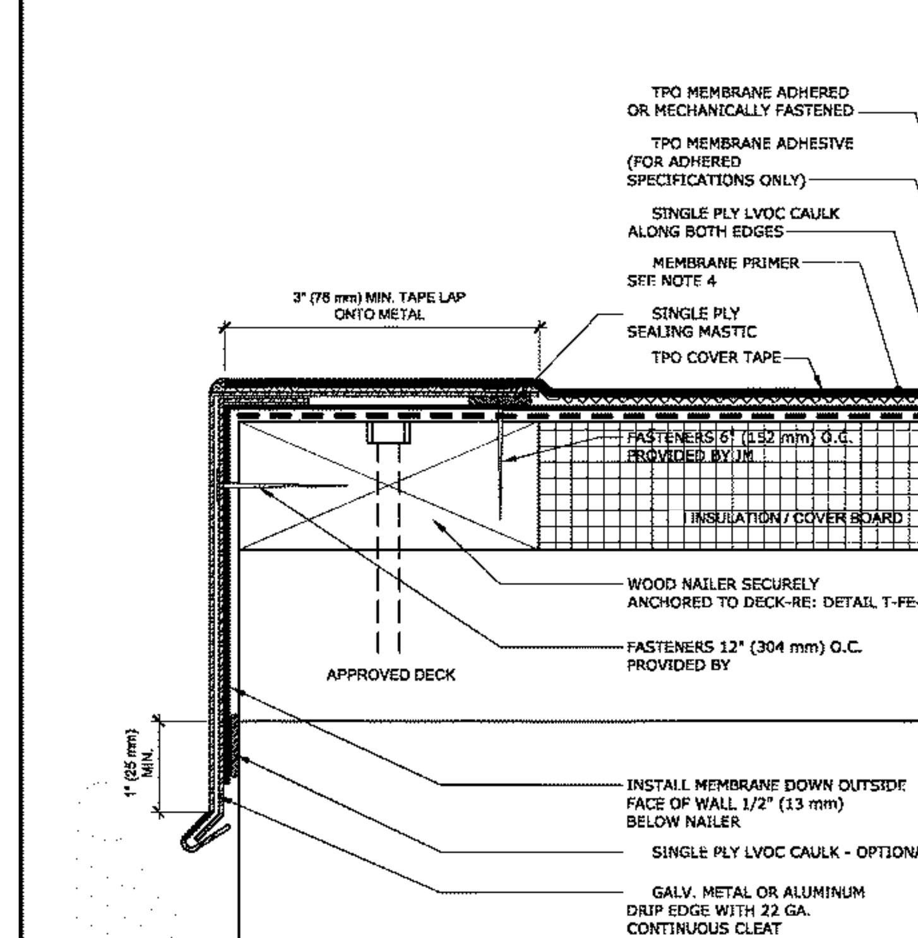
3. ANY CARPENTRY OR METAL WORK SHOULD BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS AND/OR PROJECT SPECIFICATIONS. THESE COMPONENTS SHOULD BE REVIEWED AND APPROVED BY A LICENSED DESIGN PROFESSIONAL.
4. HEIGHT OF CURB TO BE ADJUSTED WITH NAILERS. IT IS PREFERRED TO RAISE CURB ONTO NAILERS TO EXTEND FLASHING HEIGHT.
5. TPO EDGE SEALANT IS REQUIRED ON ALL CUT AND NON ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY CUT MEMBRANE (SEE DETAIL T-MS-01).
6. SEE T-FW-B DETAILS FOR APPROVED BASE FLASHING TIE IN TERMINATION METHODS.

PREFABRICATED METAL CURB BASE FLASHING

DRAWING NO. **T-FC-01** REPLACES TF-64-ADH | MEMBRANE TYPE: TPO | SCALE N.T.S



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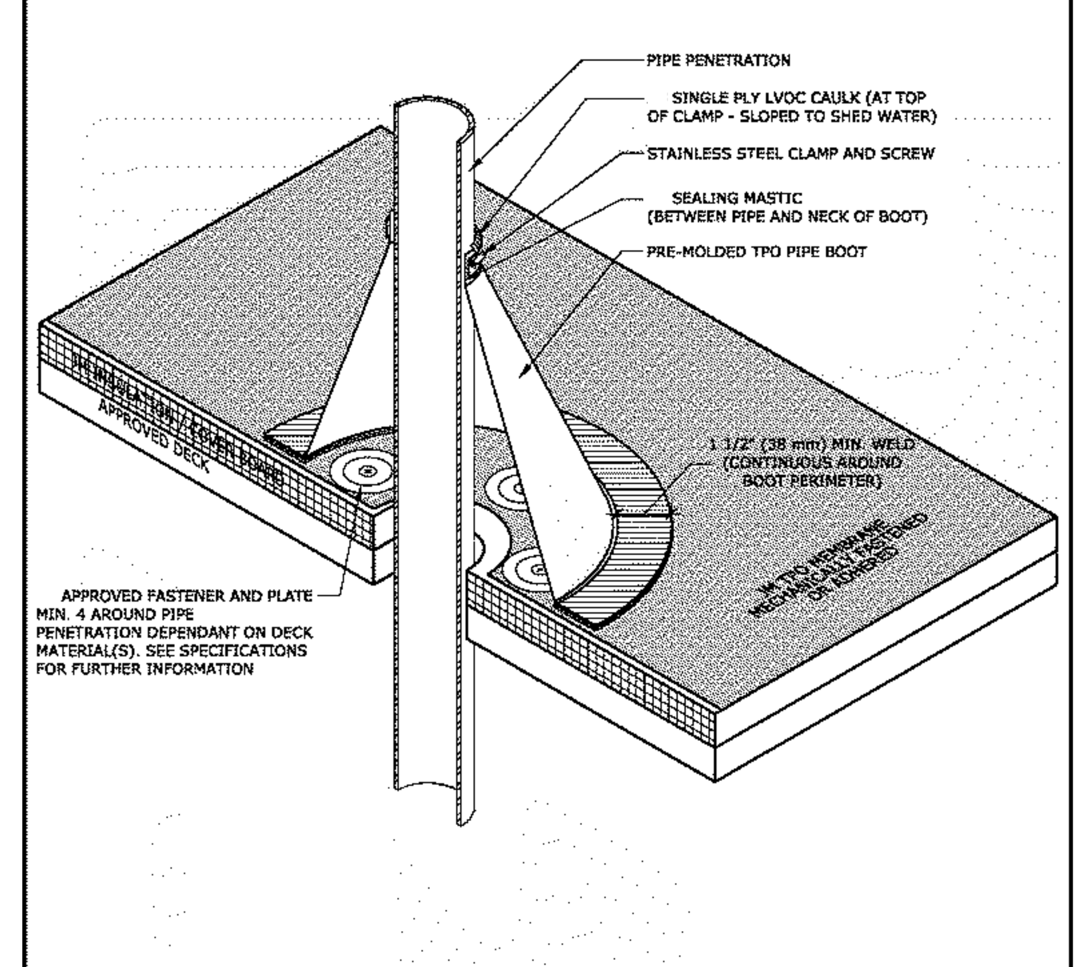
4. TPO MEMBRANE PRIMER OR JM SINGLE PLY MEMBRANE PRIMER (LOW VOC) MUST BE APPLIED ON ALL SURFACES COMING INTO CONTACT WITH TPO PEEL & STICK PRODUCTS. ROLL MEMBRANE WITH HAND ROLLER UNDER PRESSURE AT SEAM.

JM METAL DRIP EDGE WITH JM TPO COVER TAPE

DRAWING NO. **T-FE-P5** NEW DETAIL | MEMBRANE TYPE: TPO | SCALE N.T.S



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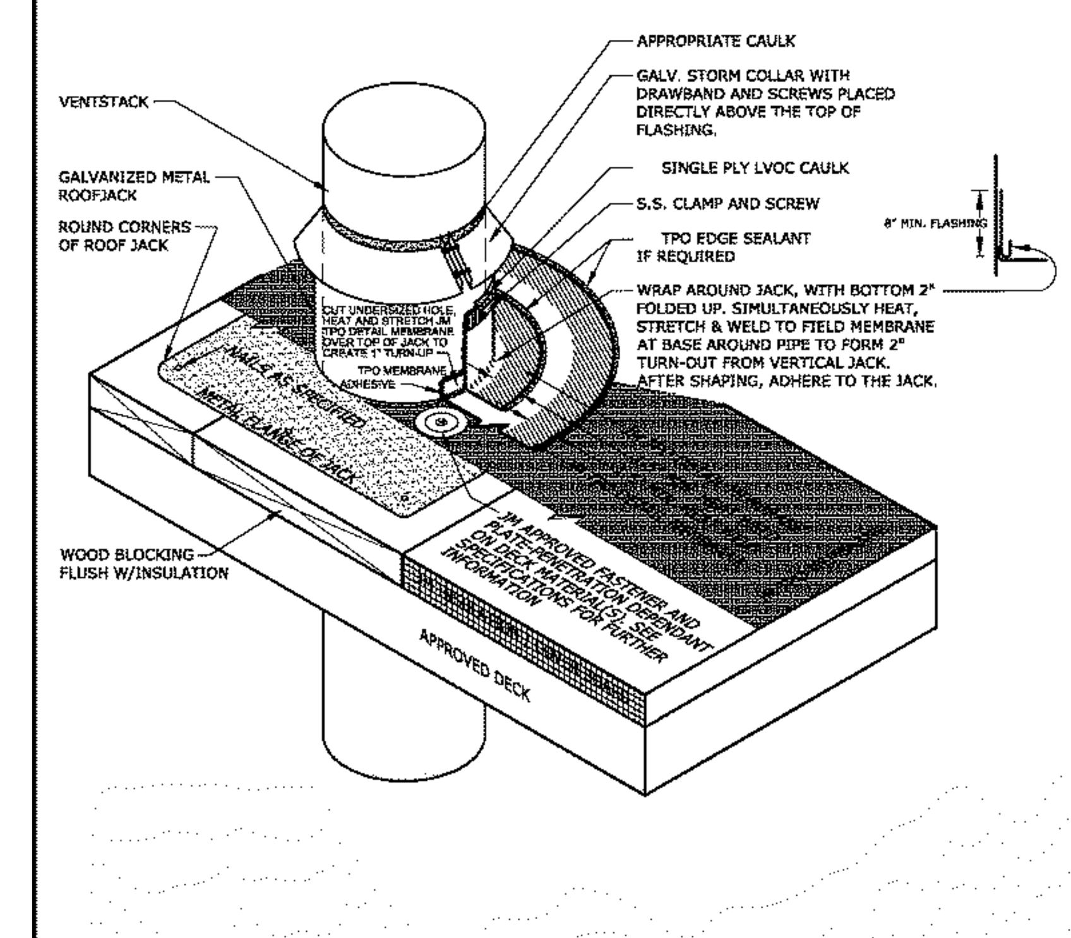
TPO PIPE BOOT

DRAWING NO. **T-FP-01** REPLACES TF-60S | MEMBRANE TYPE: TPO | SCALE N.T.S



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VENT PIPE

DRAWING NO. **T-DV-01** REPLACES TF-62 | MEMBRANE TYPE: TPO | SCALE N.T.S

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04/17/2024

HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
ROOFING & FLASHING DETAILS

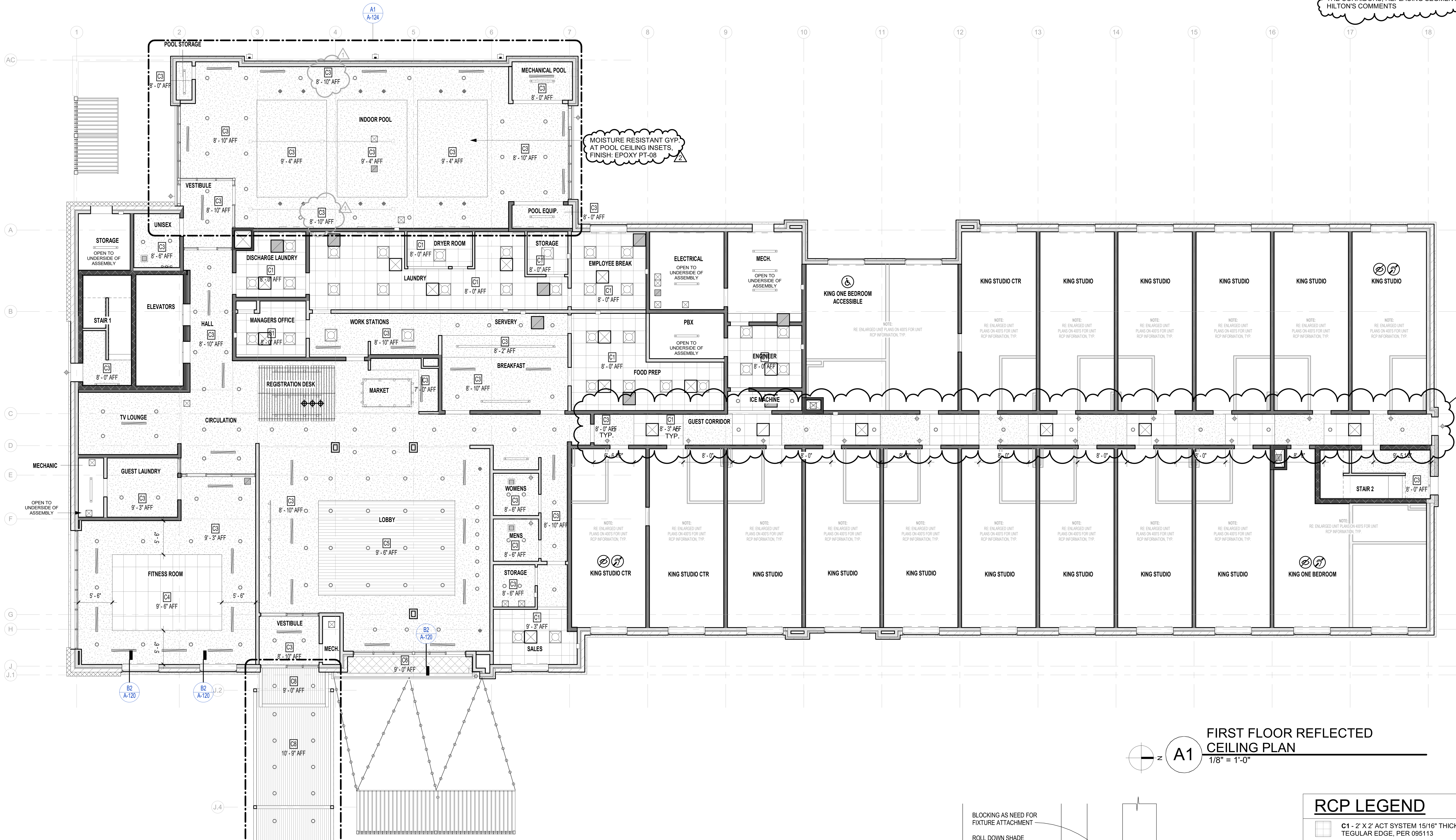
PROJECT NUMBER: 22023

SHEET NUMBER:

A-107

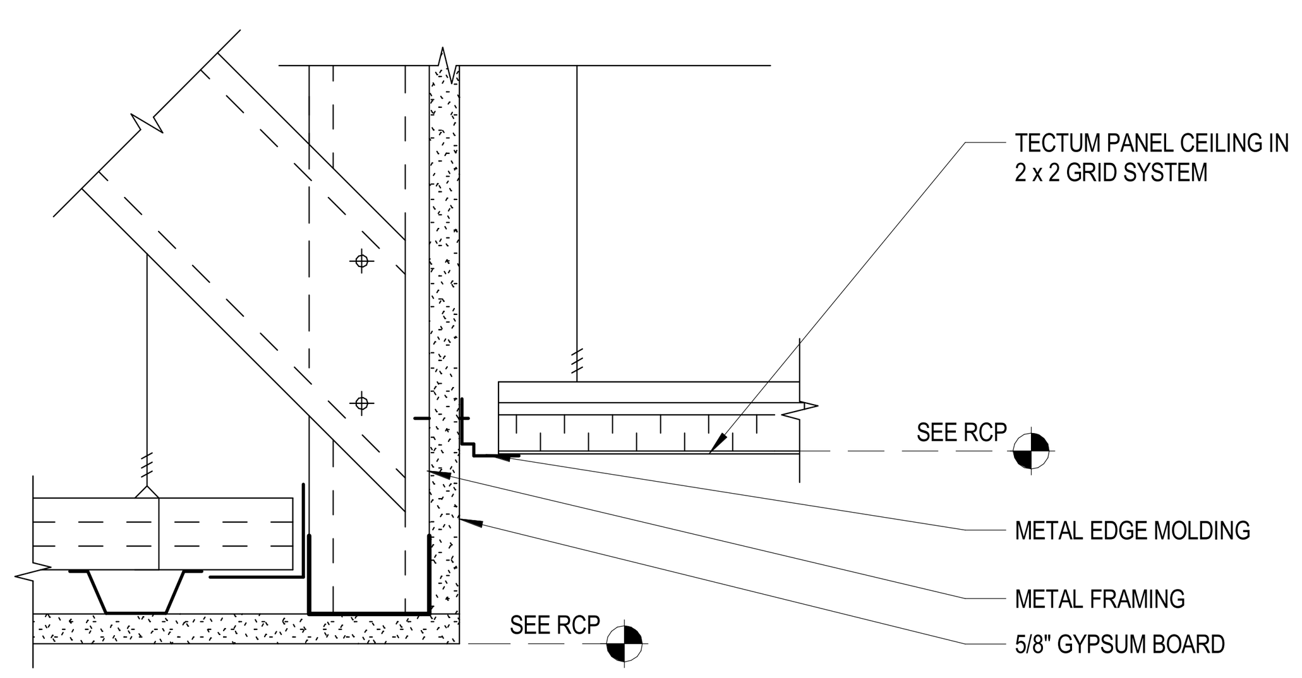
REFERENCE G-003 FOR GENERAL NOTES

REVISION 2:
PORTIONS OF HARDLID CEILING HAVE BEEN ADDED TO THE CORRIDORS, REPLACING SEGMENTS OF A.C.T. PER HILTON'S COMMENTS



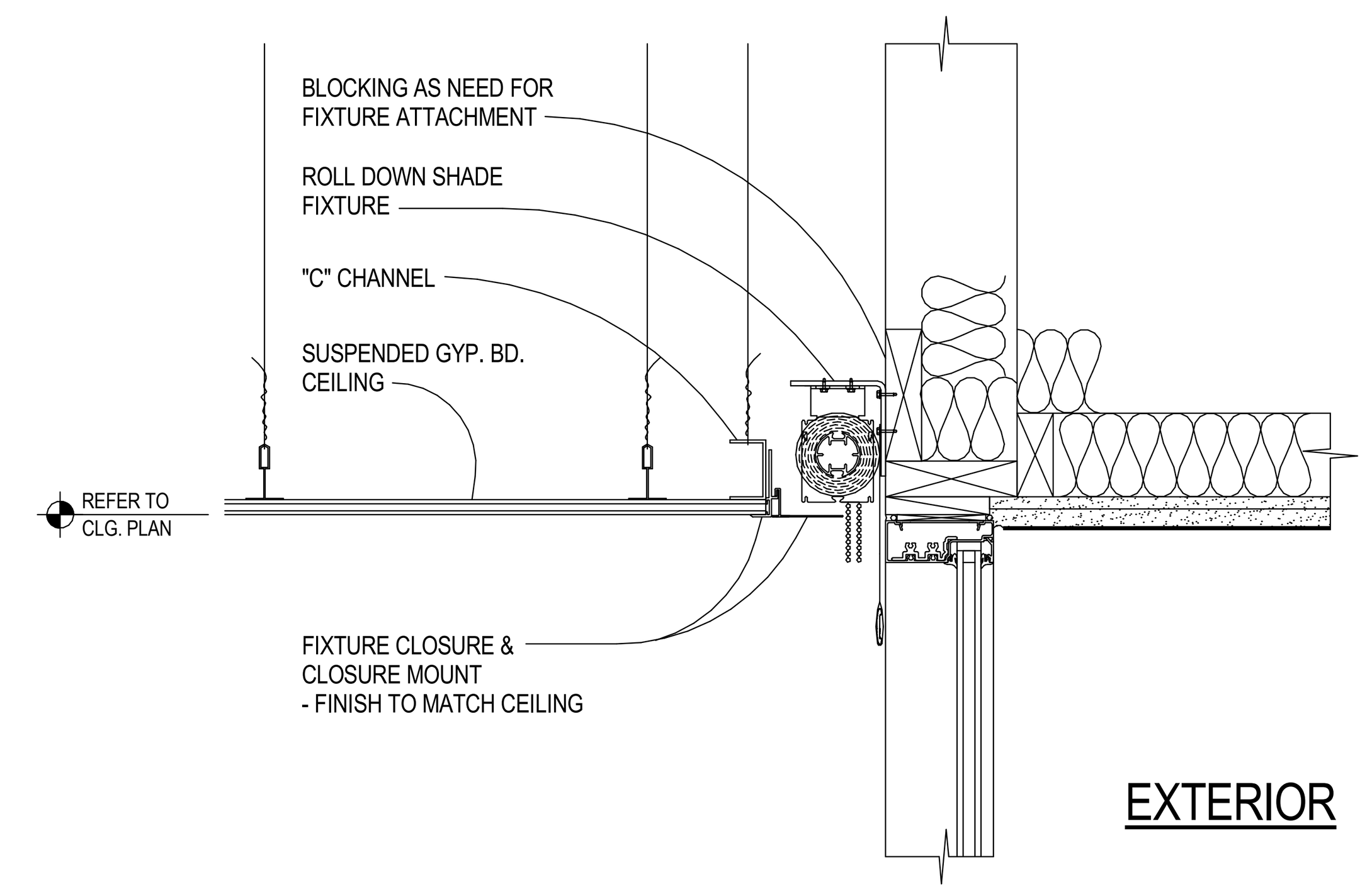
FIRST FLOOR REFLECTED CEILING PLAN

A1 1/8" = 1'-0"



C2 ACCENT CEILING AT FITNESS

3" = 1'-0"



B2 ROLL DOWN SHADE POCKET

1 1/2" = 1'-0"

RCP LEGEND

- C1 - 2' X 2' ACT SYSTEM 15/16" THICKNESS- ANGULAR TEGULAR EDGE, PER 095113
- C3 - GWB ON METAL STUD
- C4 - TECTUM CEILING 2' X 2'
- C5 - 6X48 ACT
- C6 - WRAP MATERIAL SOFFIT, PAINT TO MATCH UPPER WALL COLOR
- C8 - EXTRUDED ALUMINUM SOFFIT SYSTEM WITH A WOOD LOOK PAINT
- SUPPLY DIFFUSER
- RETURN GRILL
- LINEAR SUPPLY DIFFUSER
- 9' - 0" AFF INDICATES CEILING HEIGHT, BELOW MATERIAL TAG

*NOTE: REFER TO ENLARGED GUESTROOM CEILING PLANS (A-400S) FOR ROOM CEILING INFO. - A-400S SHEETS

PRINTS ISSUED

04/17/2024 - CITY SUBMISSION

REVISIONS:

1 05/17/2024 CITY RESPONSE

2 06/14/2024 CITY & BRAND RESPONSE

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LEE'S SUMMIT, MO

SHEET TITLE
FIRST FLOOR REFLECTED CEILING PLAN

PROJECT NUMBER: 22023

SHEET NUMBER:

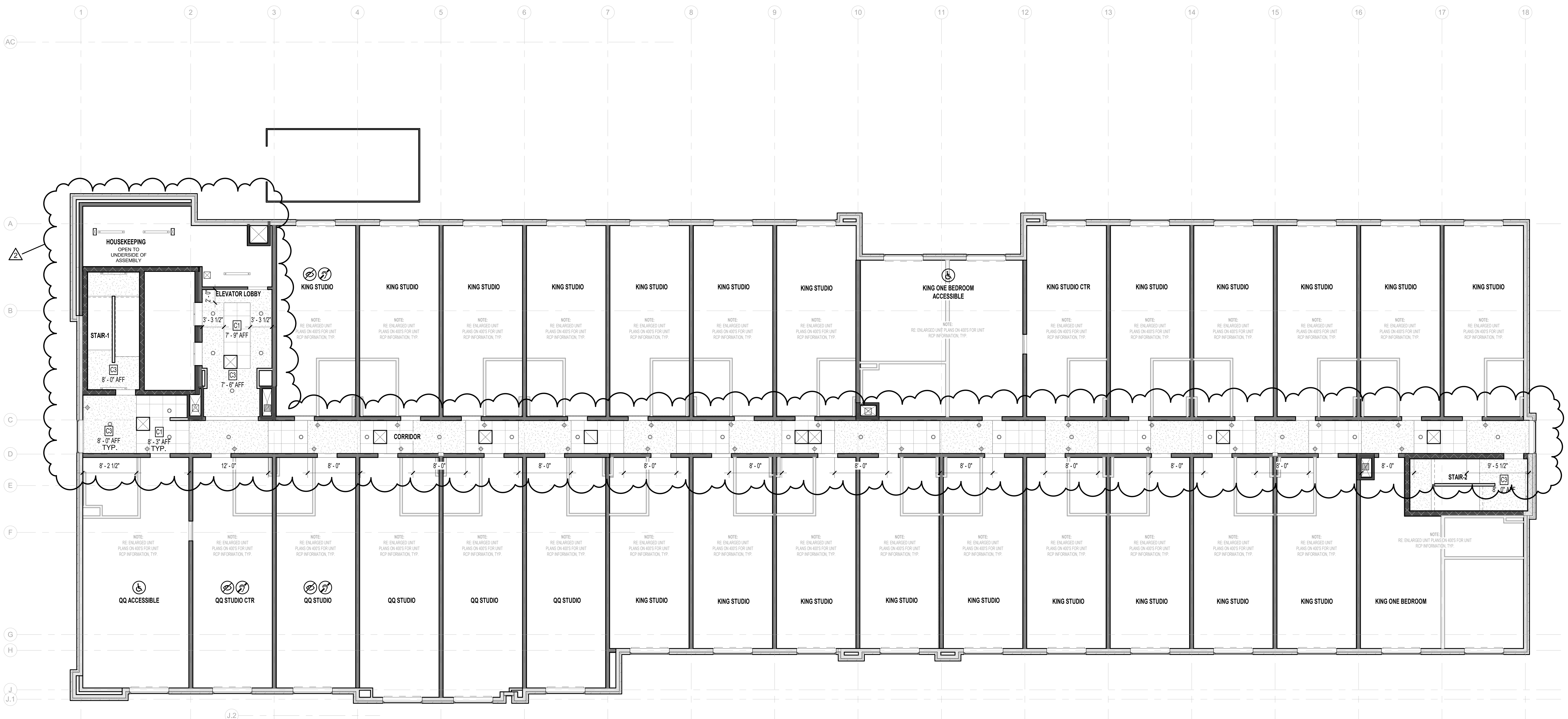
A-120

REFERENCE G-003 FOR GENERAL NOTES

REVISION 2:
PORTIONS OF HARDLID CEILING HAVE BEEN ADDED TO THE CORRIDORS, REPLACING SEGMENTS OF A.C.T. PER HILTON'S COMMENTS

PRINTS ISSUED
04/17/2024 - CITY SUBMISSION

REVISIONS:
2 06/14/2024 CITY & BRAND RESPONSE



RCP LEGEND

C1 - 2' X 2' ACT SYSTEM 15/16" THICKNESS- ANGULAR TEGULAR EDGE, PER 095113

C3 - GWB ON METAL STUD

C4 - TECTUM CEILING 2' X 4'

C5 - 6X48 ACT

C6 - WRAP MATERIAL SOFFIT, PAINT TO MATCH UPPER WALL COLOR

C8 - EXTRUDED ALUMINUM SOFFIT SYSTEM WITH A WOOD LOOK PAINT

SUPPLY DIFFUSER

RETURN GRILL

LINEAR SUPPLY DIFFUSER

9' - 0" AFF INDICATES CEILING HEIGHT, BELOW MATERIAL TAG

*NOTE: REFER TO ENLARGED GUESTROOM CEILING PLANS (A-400S) FOR ROOM CEILING INFO. - A-400S SHEETS

A1 SECOND FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

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STATE OF MISSOURI
DAVID EUGENE HENDRICKS
NUMBER A-7305
REGISTERED ARCHITECT
06/14/2024

HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
SECOND FLOOR REFLECTED CEILING PLAN

PROJECT NUMBER: 22023

SHEET NUMBER:

A-121

REFERENCE G-003 FOR GENERAL NOTES

REVISION 2:
PORTIONS OF HARDLID CEILING HAVE BEEN ADDED TO THE CORRIDORS, REPLACING SEGMENTS OF A.C.T. PER HILTON'S COMMENTS (2)

RCP LEGEND

	C1 - 2' X 2' ACT SYSTEM 15/16" THICKNESS- ANGULAR TEGULAR EDGE, PER 095113
	C3 - GWB ON METAL STUD
	C4 - TECTUM CEILING 2' X 4' (2)
	C5 - 6X48 ACT
	C6 - WRAP MATERIAL SOFFIT, PAINT TO MATCH UPPER WALL COLOR
	C8 - EXTRUDED ALUMINUM SOFFIT SYSTEM WITH A WOOD LOOK PAINT
	SUPPLY DIFFUSER
	RETURN GRILL
	LINEAR SUPPLY DIFFUSER
9' - 0" AFF	INDICATES CEILING HEIGHT, BELOW MATERIAL TAG
	*NOTE: REFER TO ENLARGED GUESTROOM CEILING PLANS (A-400S) FOR ROOM CEILING INFO. - A-400S SHEETS

A1 THIRD FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

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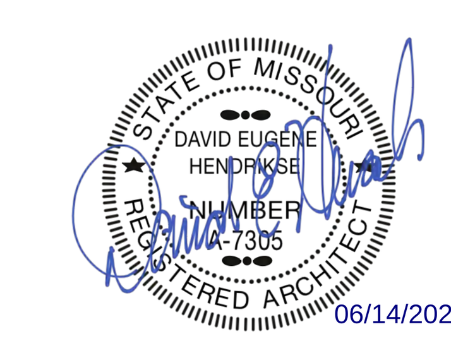

HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
THIRD FLOOR REFLECTED CEILING PLAN

PROJECT NUMBER: 22023

SHEET NUMBER:

A-122

REFERENCE G-003 FOR GENERAL NOTES

REVISION 2:
PORTIONS OF HARDLID CEILING HAVE BEEN ADDED TO THE CORRIDORS, REPLACING SEGMENTS OF A.C.T. PER HILTON'S COMMENTS

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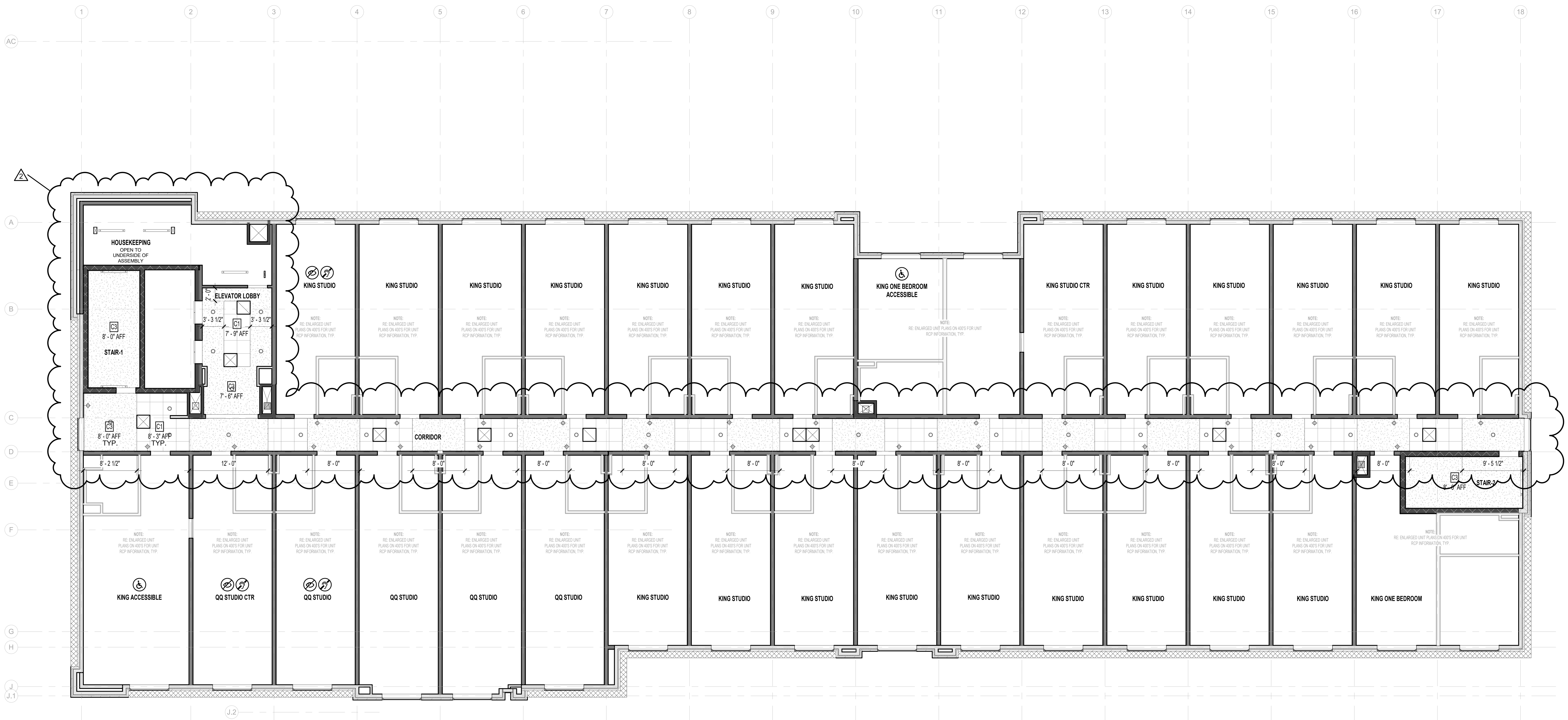

RCP LEGEND

- C1 - 2' X 2' ACT SYSTEM 15/16" THICKNESS- ANGULAR TEGULAR EDGE, PER 095113
- C3 - GWB ON METAL STUD
- C4 - TECTUM CEILING 2' X 4'
- C5 - 6X48 ACT
- C6 - WRAP MATERIAL SOFFIT, PAINT TO MATCH UPPER WALL COLOR
- C8 - EXTRUDED ALUMINUM SOFFIT SYSTEM WITH A WOOD LOOK PAINT
- SUPPLY DIFFUSER
- RETURN GRILL
- LINEAR SUPPLY DIFFUSER
- 9' - 0" AFF INDICATES CEILING HEIGHT, BELOW MATERIAL TAG
- *NOTE: REFER TO ENLARGED GUESTROOM CEILING PLANS (A-400S) FOR ROOM CEILING INFO. - A-400S SHEETS

A1 FOURTH FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

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DAVID EUGENE HENDRICKS
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06/14/2024

HOME2 SUITES BY HILTON

LEE'S SUMMIT, MO

SHEET TITLE
FOURTH FLOOR REFLECTED CEILING PLAN

PROJECT NUMBER: 22023

SHEET NUMBER:

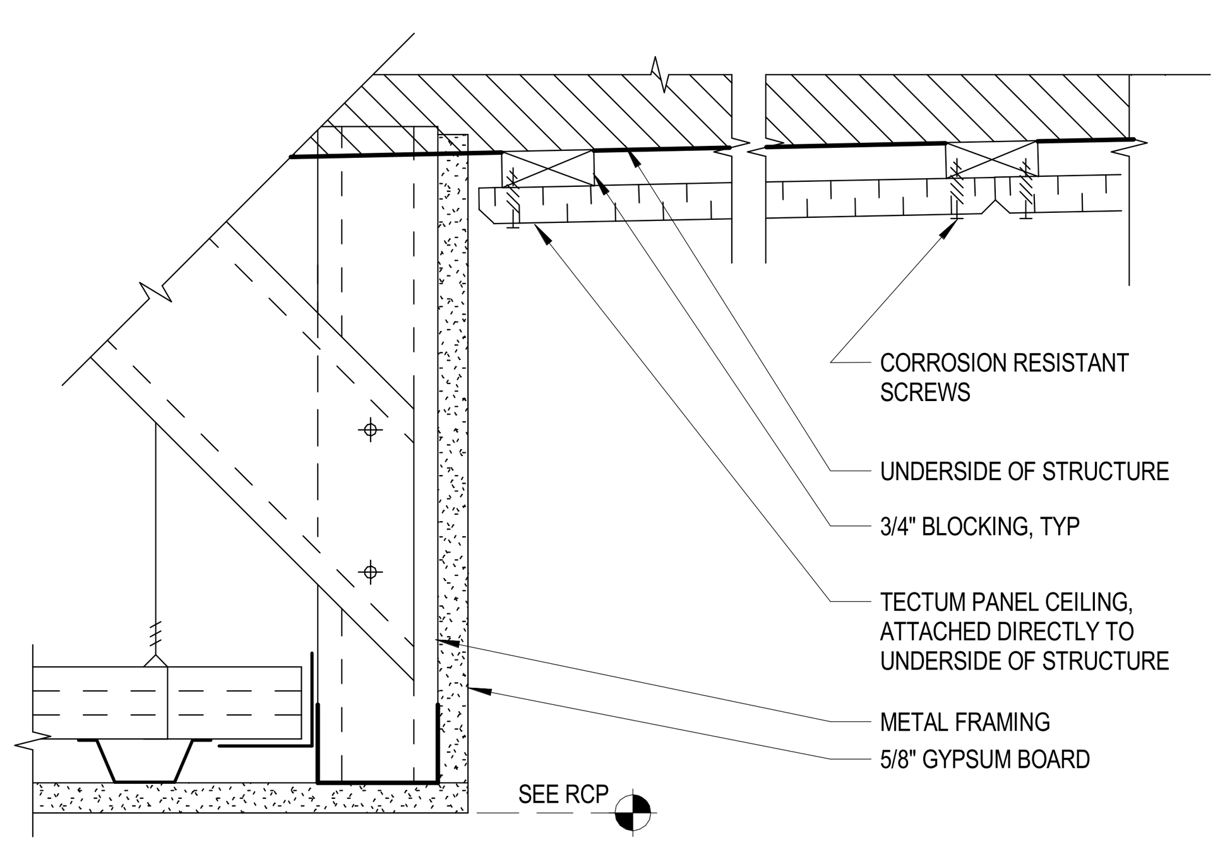
A-123

REFERENCE G-003 FOR GENERAL NOTES

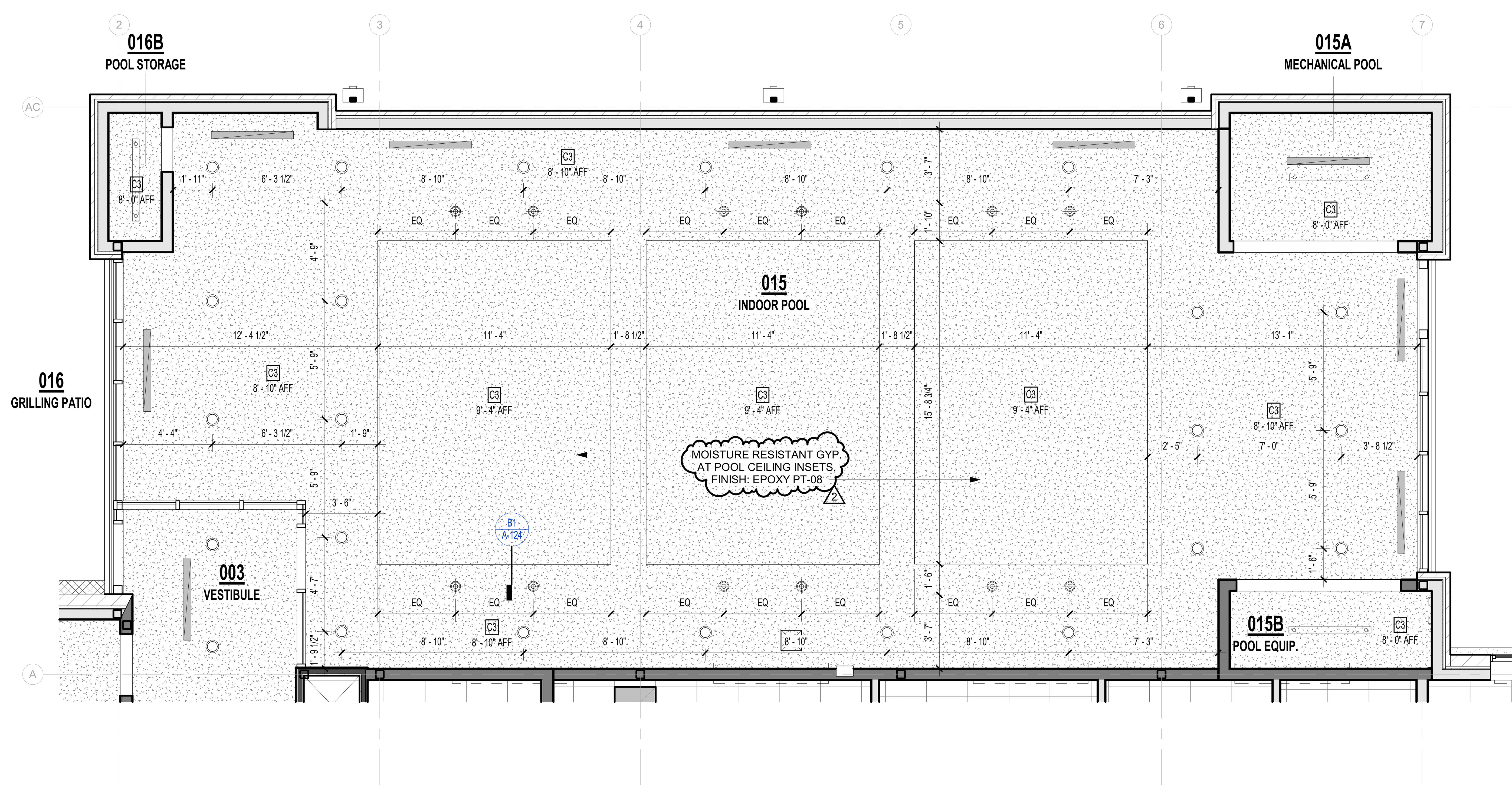
RCP LEGEND

- **C1** - 2' X 2' ACT SYSTEM 15/16" THICKNESS- ANGULAR TEGULAR EDGE, PER 095113
- **C3** - GWB ON METAL STUD
- **C4** - TECTUM CEILING 2' X 4' (2)
- **C5** - 6X48 ACT
- **C6** - WRAP MATERIAL SOFFIT, PAINT TO MATCH UPPER WALL COLOR
- **C8** - EXTRUDED ALUMINUM SOFFIT SYSTEM WITH A WOOD LOOK PAINT
- SUPPLY DIFFUSER
- RETURN GRILL
- LINEAR SUPPLY DIFFUSER
- 9' - 0" AFF — INDICATES CEILING HEIGHT, BELOW MATERIAL TAG

*NOTE: REFER TO ENLARGED GUESTROOM CEILING PLANS (A-400S) FOR ROOM CEILING INFO. - A-400S SHEETS



B1 ACCENT CEILING IN POOL
3" = 1'-0"



A1 FIRST FLOOR REFLECTED CEILING PLAN
1/4" = 1'-0"

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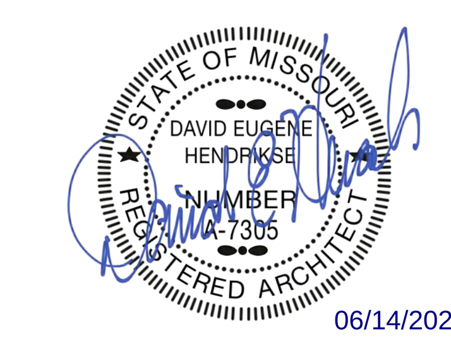


HOME2 SUITES BY HILTON

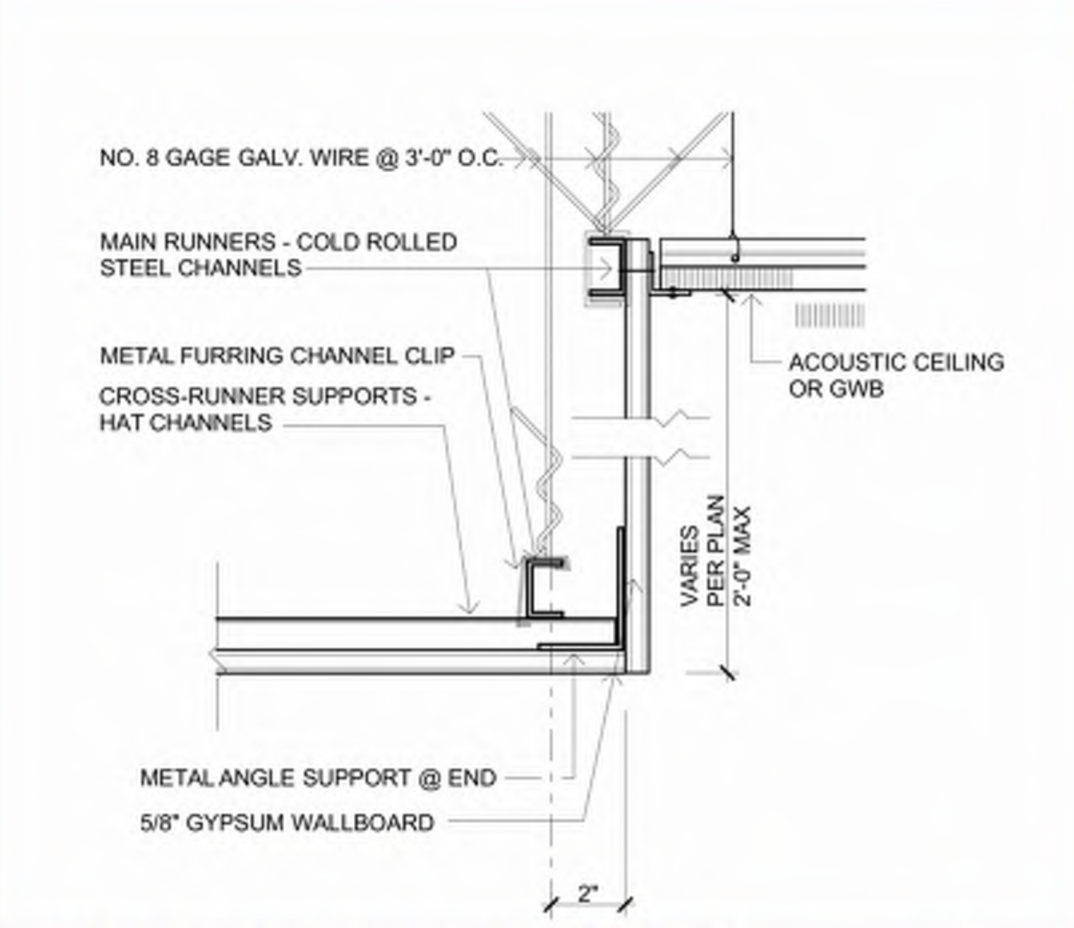
LEE'S SUMMIT, MO

SHEET TITLE
ENLARGED REFLECTED CEILING PLAN - INDOOR POOL

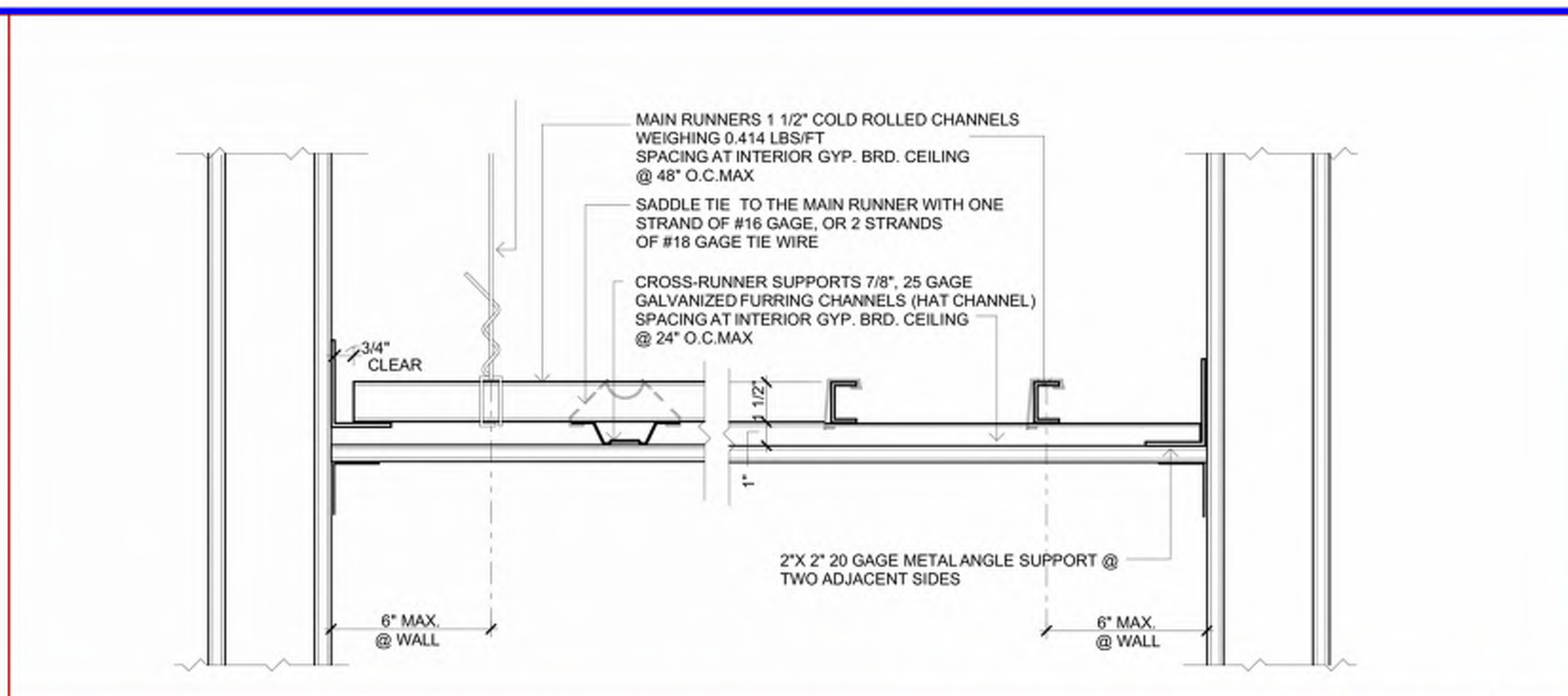
PROJECT NUMBER: 22023

SHEET NUMBER:

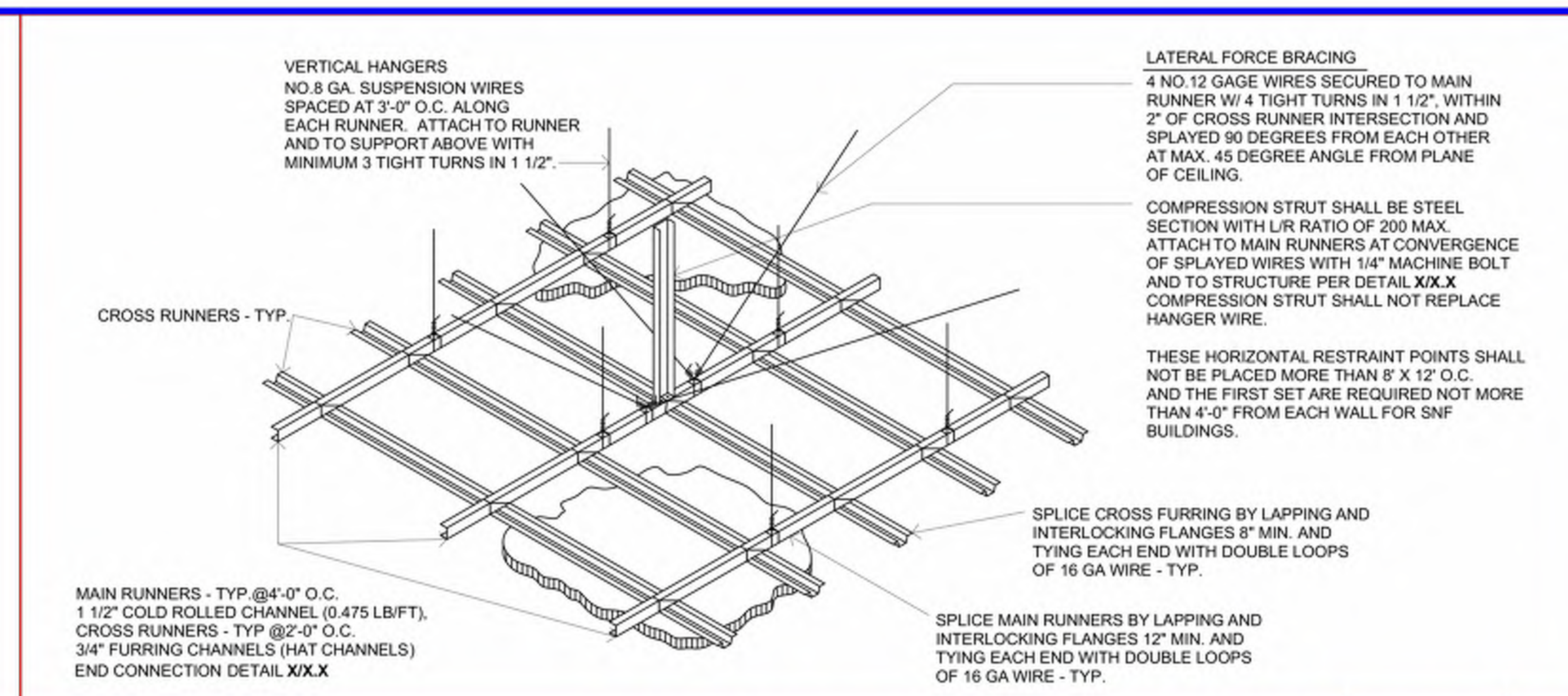
A-124



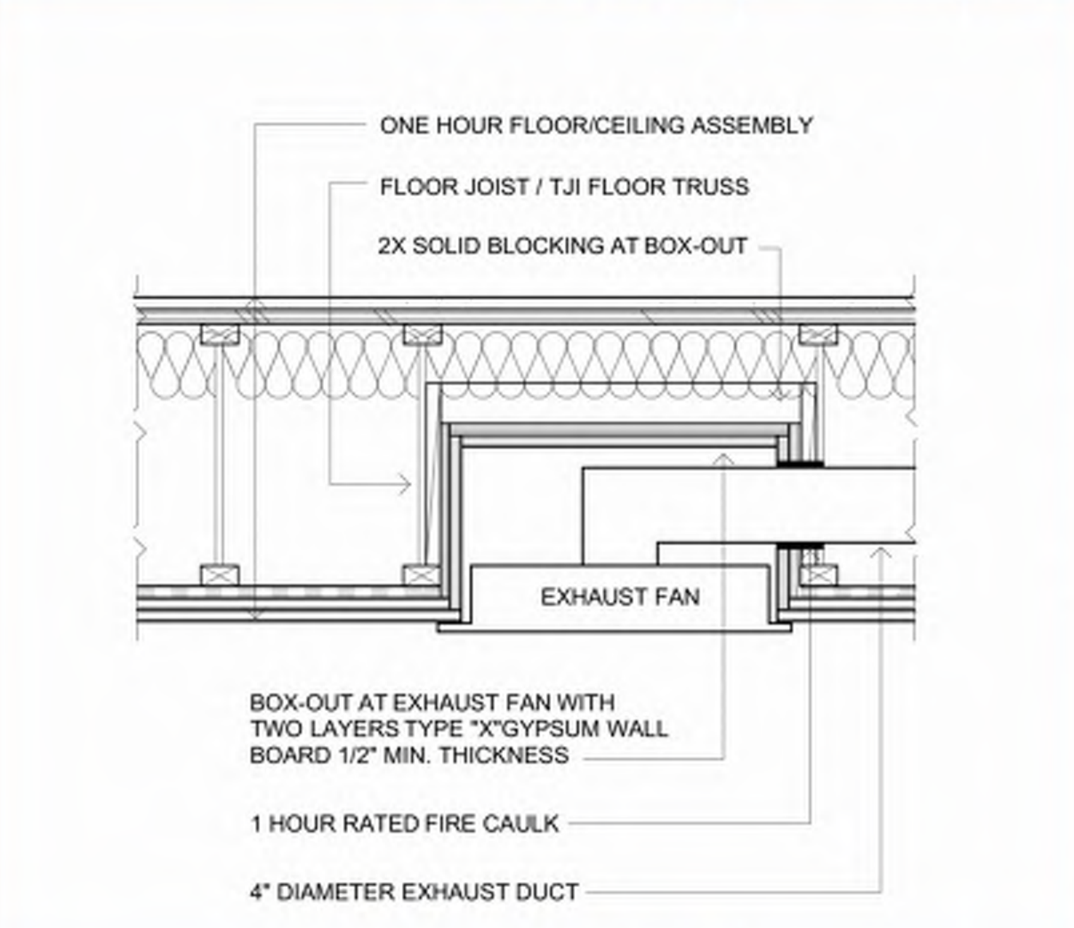
SUSPENDED CEILING/SOFFIT TRANSITION 3" = 1'-0" 20 A13.1



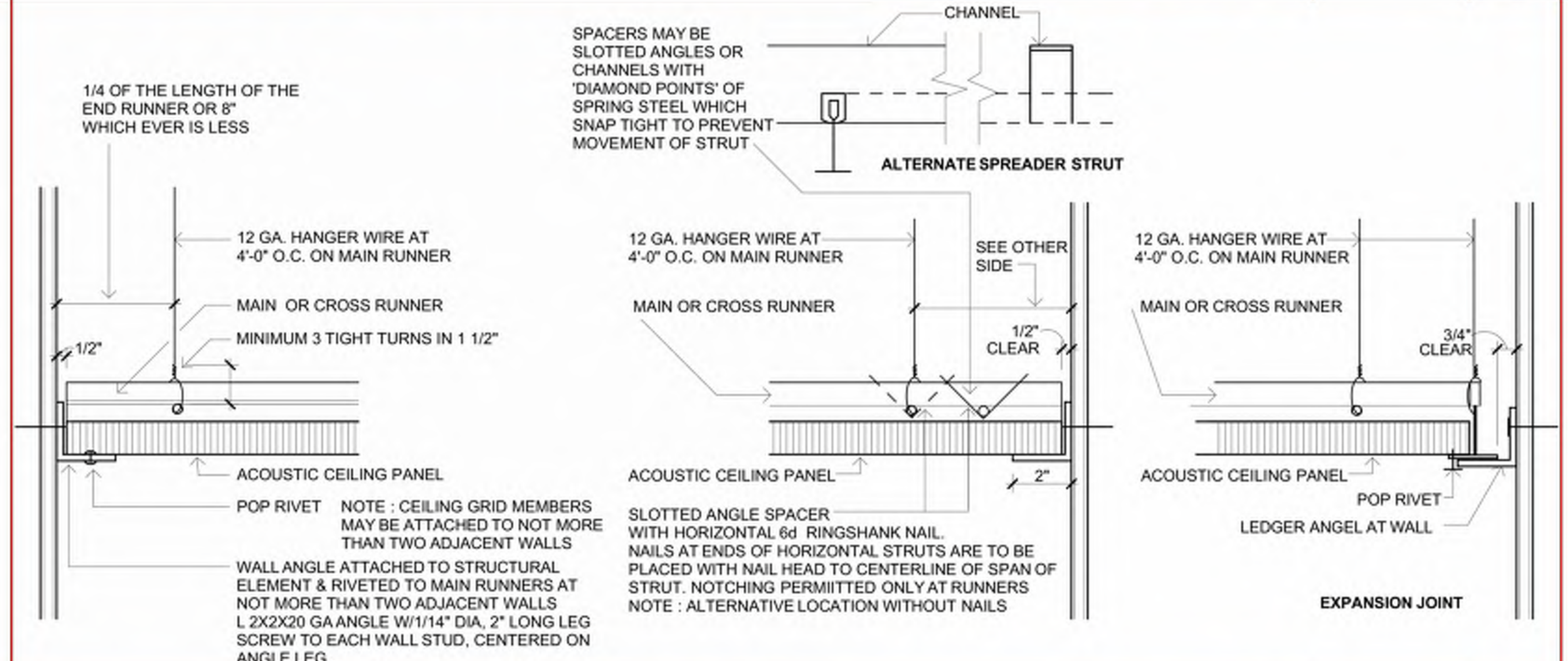
SUSPENDED GYPSUM WALL BOARD CEILING - CONNECTION DETAIL 3" = 1'-0" 12 A13.1



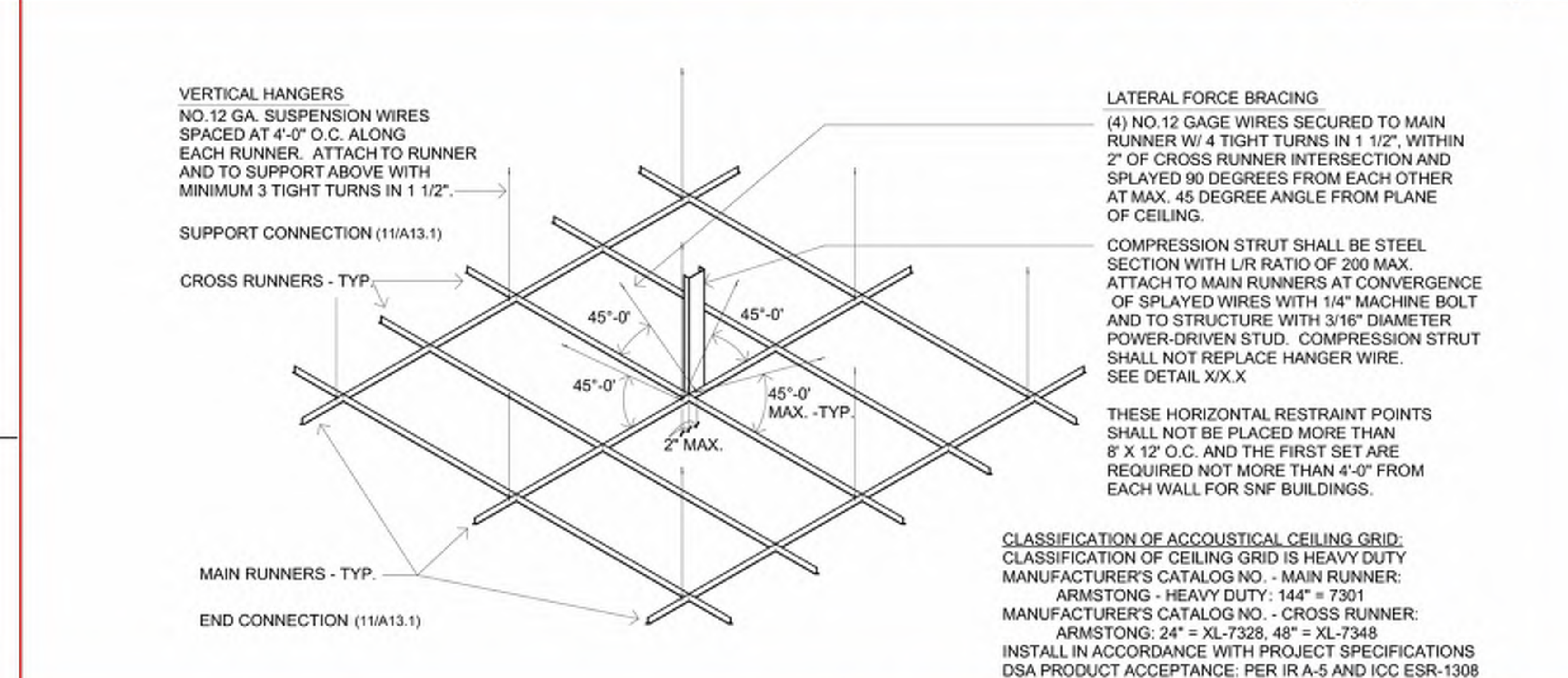
SUSPENDED GYPSUM BOARD CEILING GRID 1 1/2"= 1'-0" 4 A13.1



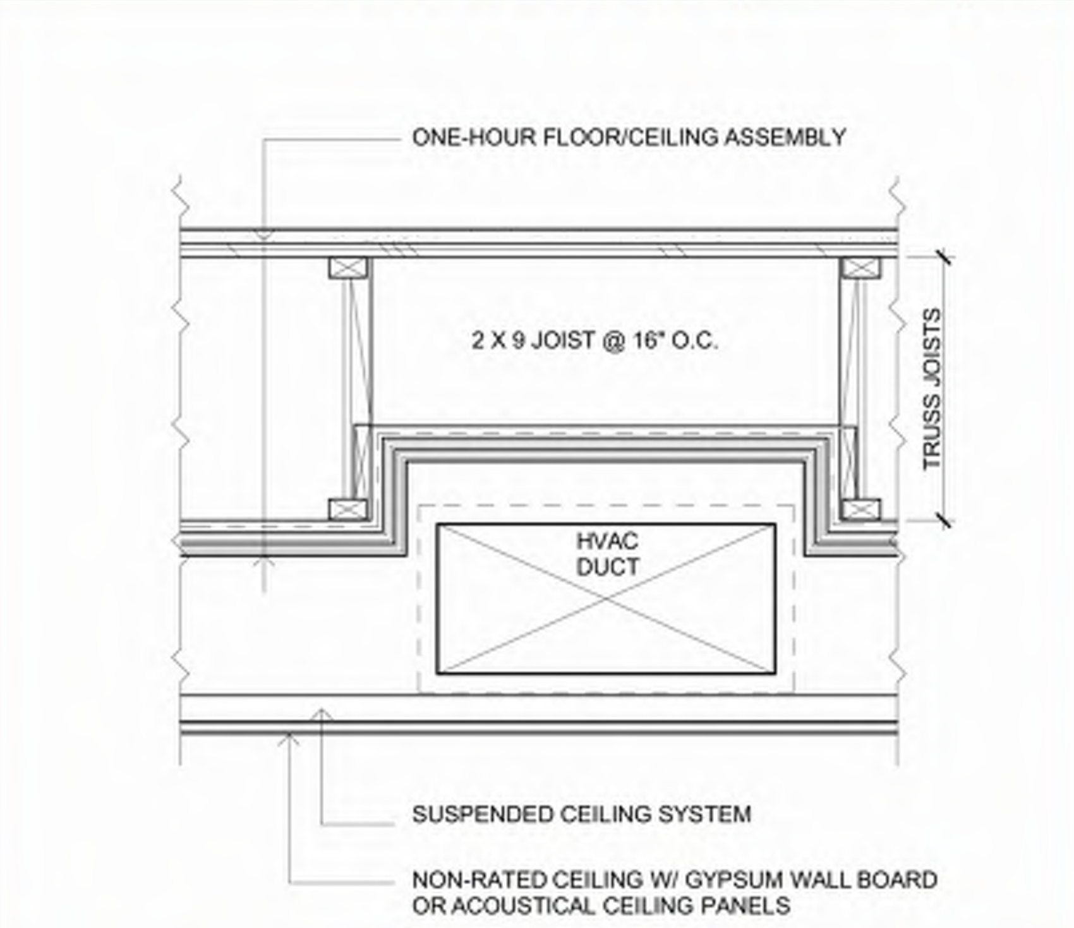
FAN EXHAUST AT FLOOR/CEILING 1 1/2"= 1'-0" 19 A13.1



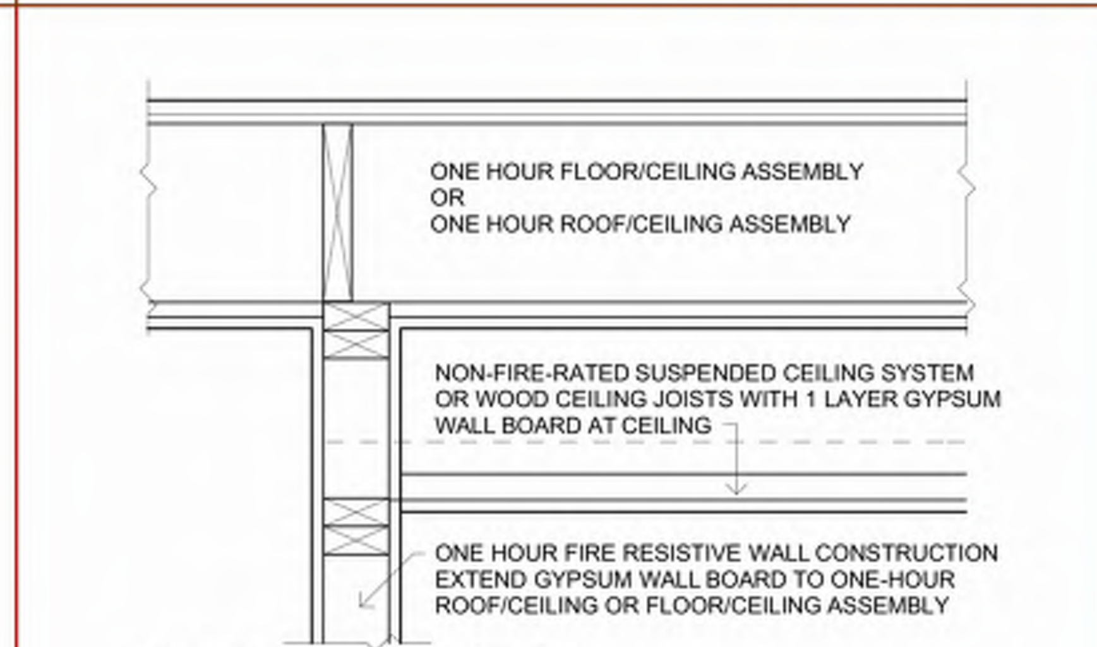
SUSPENDED LAY-IN CEILING - CONNECTION DETAIL 3" = 1'-0" 11 A13.1



SUSPENDED LAY-IN CEILING GRID 1 1/2"= 1'-0" 3 A13.1

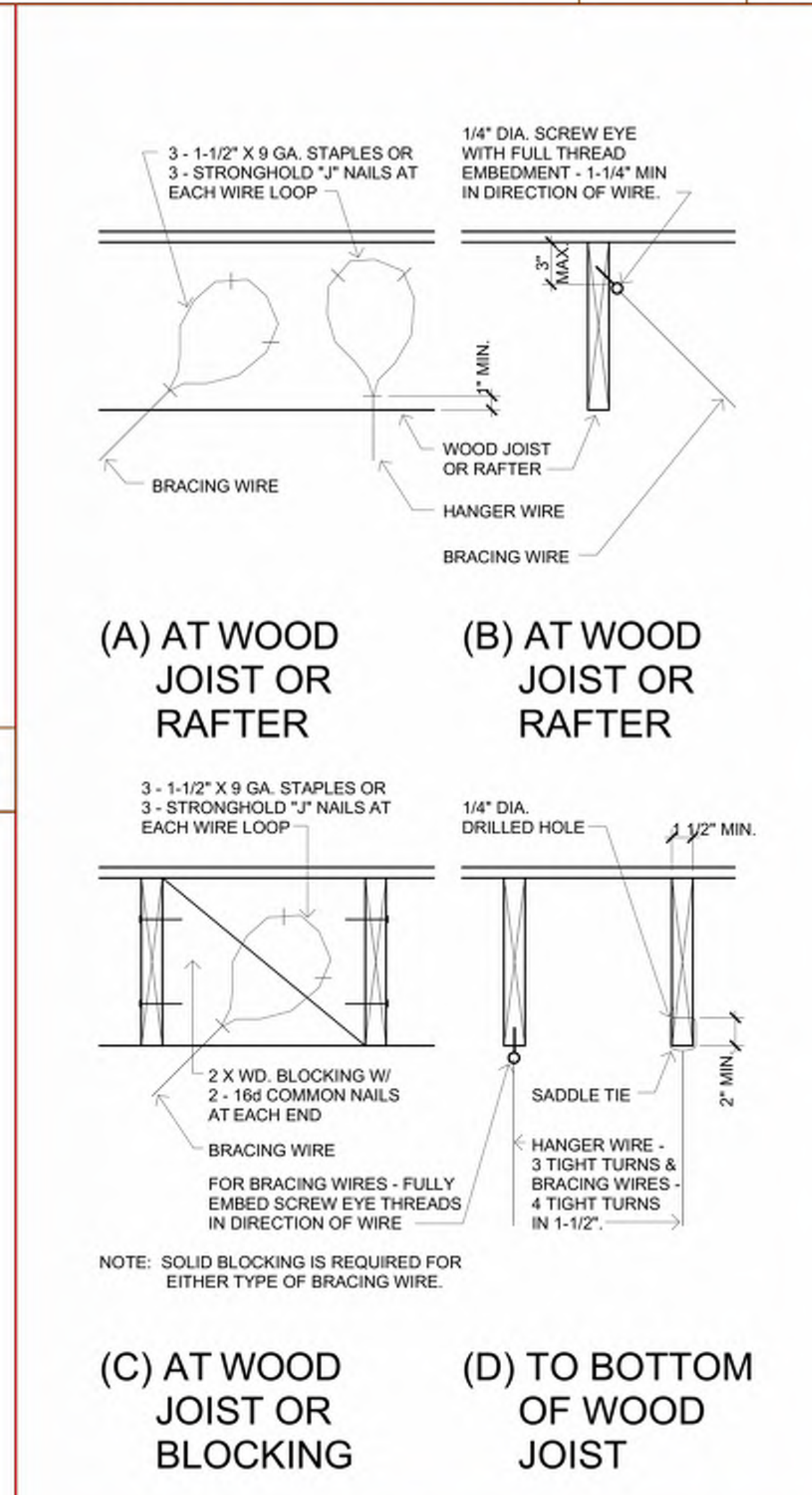


DUCT AT FLOOR/CEILING AND DROPPED CEILING 1 1/2"= 1'-0" 18 A13.1

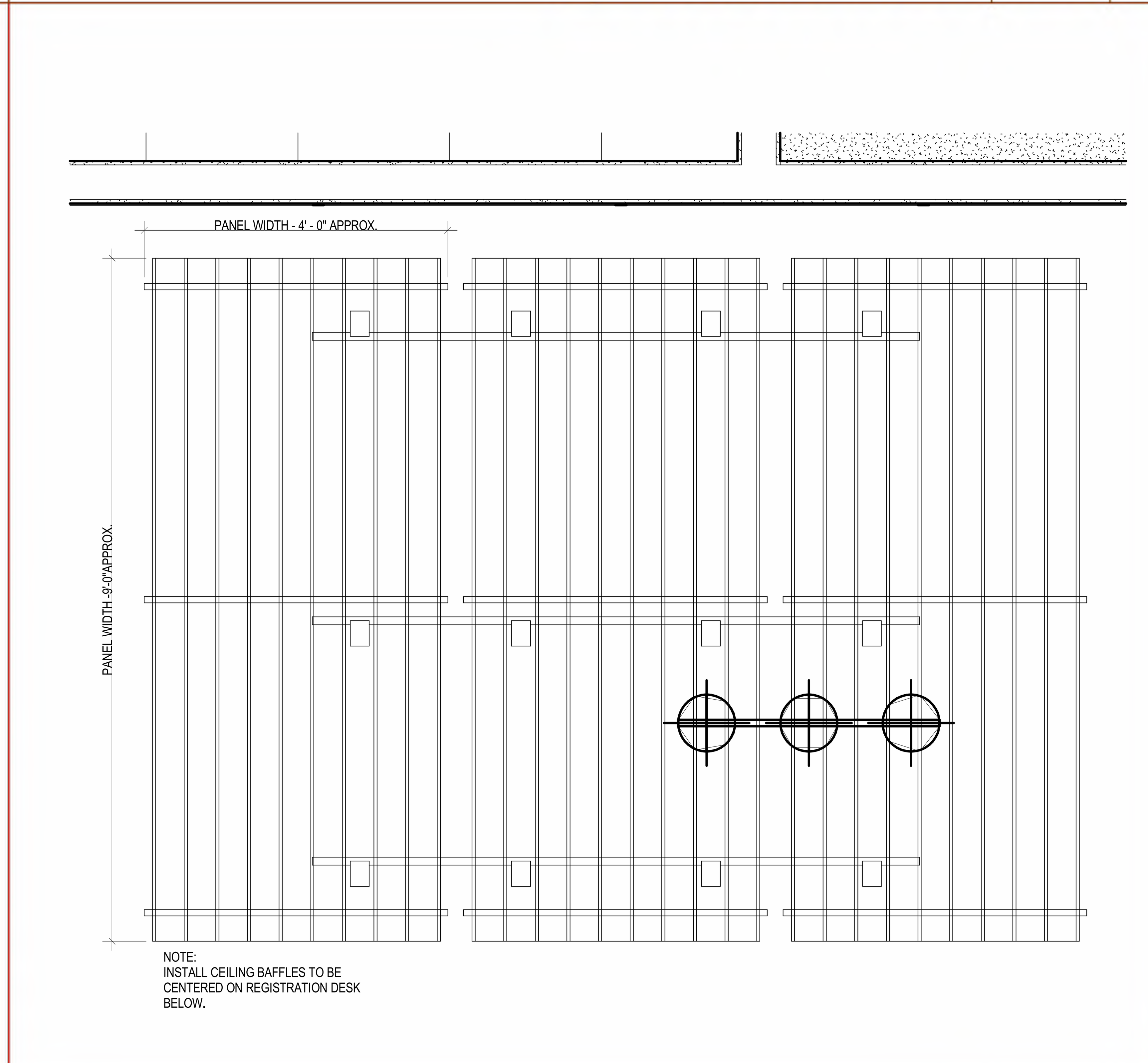


ONE HOUR ENVELOPE CONSTRUCTION (CORRIDORS, LOBBIES, ETC.)
DOOR OPENINGS SHALL BE PROTECTED BY A TIGHT-FITTING SMOKE AND DRAFT CONTROL ASSEMBLY HAVING A FIRE-PROTECTION RATING OF NOT LESS THAN 20 MINUTES. DOORS SHALL BE MAINTAINED SELF-CLOSING OR SHALL BE AUTOMATIC CLOSING BY ACTUATION OF A SMOKE DETECTOR.
ACCESS DOORS IN ROOF/CEILING ASSEMBLY SHALL BE APPROVED FIRE-RATED HORIZONTAL ACCESS DOOR ASSEMBLIES.
FOR LOCATION OF SMOKE DAMPERS, FIRE DAMPERS OR COMBINATION SEE MECHANICAL DRAWINGS

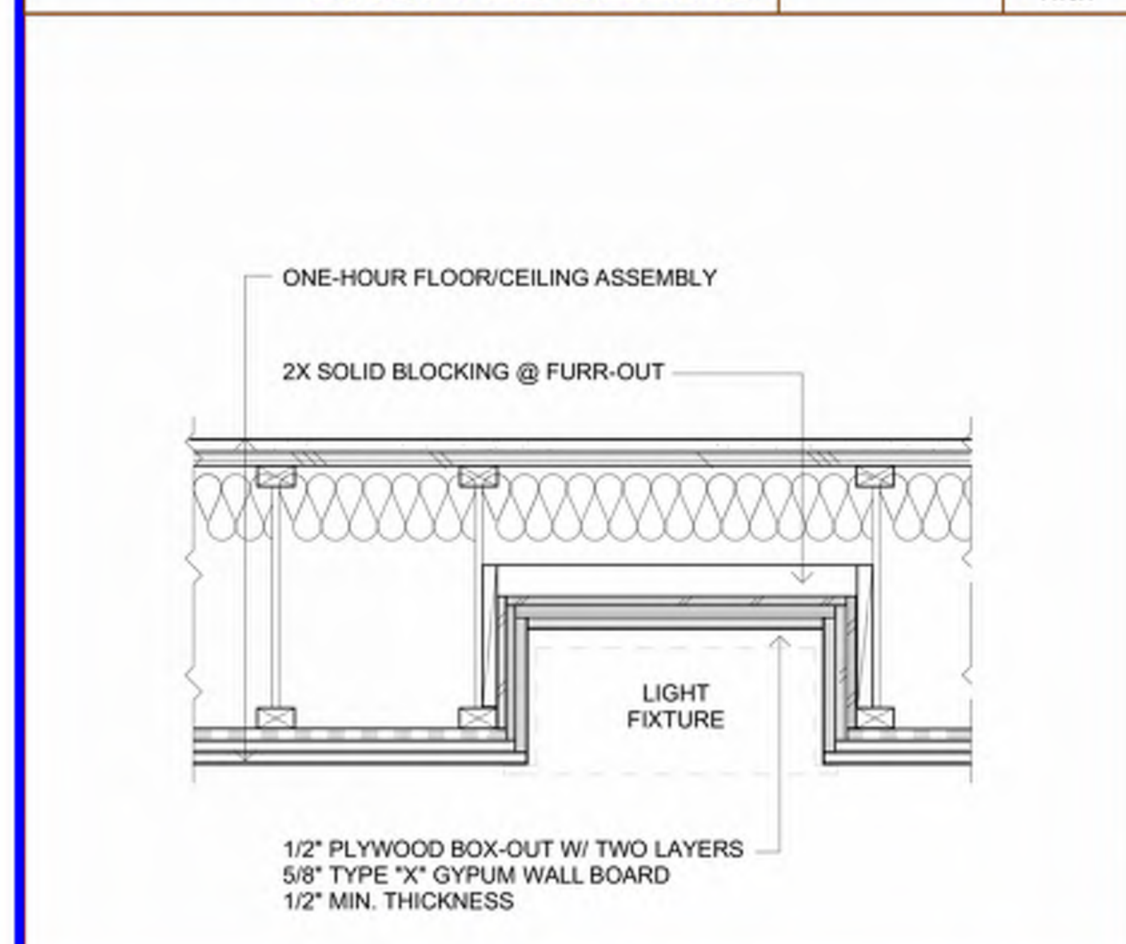
CORRIDOR CONSTRUCTION 1 1/2"= 1'-0" 14 A13.1



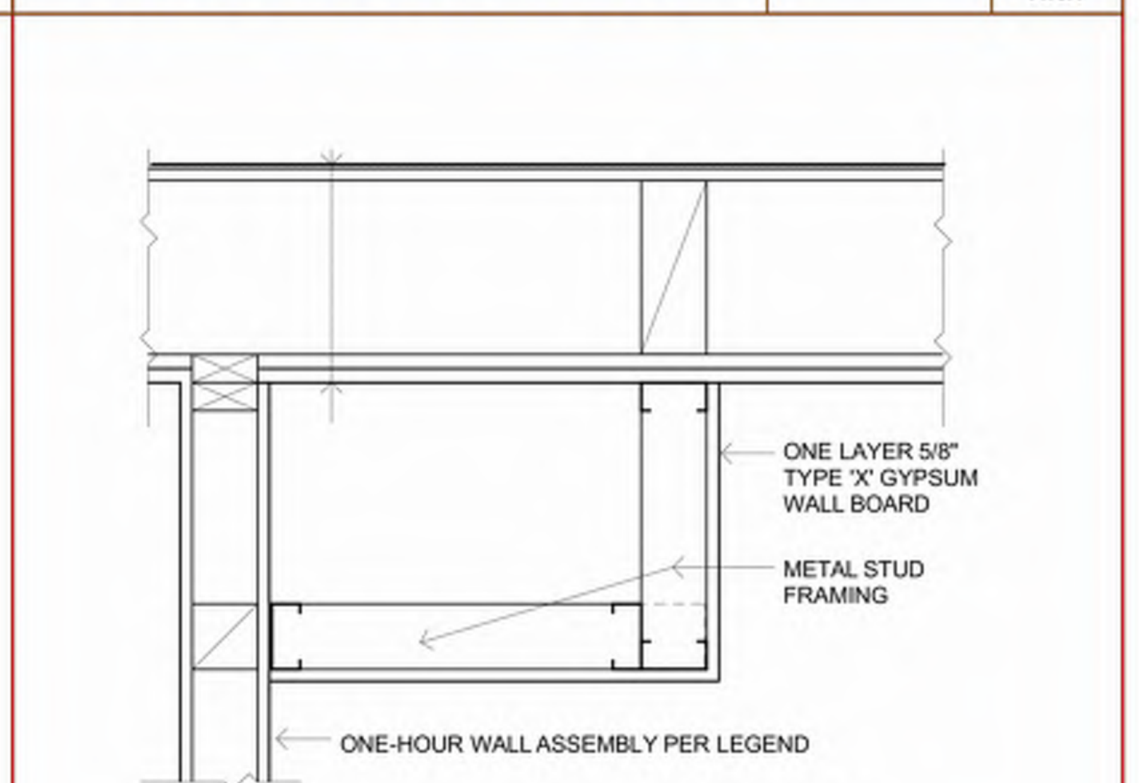
SUSPENDED CEILING AT WOOD FRAMING 1 1/2"= 1'-0" 9 A13.1



A1 RCP - RECEPTION BAFFLE CEILING
3/4" = 1'-0"



LIGHT FIXTURE AT FLOOR/CEILING 1 1/2"= 1'-0" 17 A13.1



RECESSED LIGHT FIXTURES AND DUCT OPENINGS IN THE NON-RATED SOFFIT ARE NOT REQUIRED TO BE PROTECTED
SOFFIT FRAMING SHALL BE NON-COMBUSTABLE CONSTRUCTION - CBC SECTION 803.11.2

METAL STUD SOFFIT FRAMING 1 1/2"= 1'-0" 13 A13.1

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STATE OF MISSOURI DAVID EUGENE HENDRIKSE NUMBER A-7305 REGISTERED ARCHITECT
04/17/2024

HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
CEILING DETAILS
PROJECT NUMBER: 22023
SHEET NUMBER:
A-125

4/17/2024 4:50:49 PM

REFERENCE G-003 FOR GENERAL NOTES

MATERIAL LEGEND

- MA-1 - STONE - ROCK FACE
- MA-2 - STONE SILL - SMOOTH FACE
- BR-1 - BRICK - RED
- BR-3 - BRICK - GREY
- EIFS-1 - DARK RED
- MTL-1 - METAL
- STCO - STUCCO DECORATIVE ELEMENT
- BRICK RELIEF ANGLE LOCATION

PRINTS ISSUED
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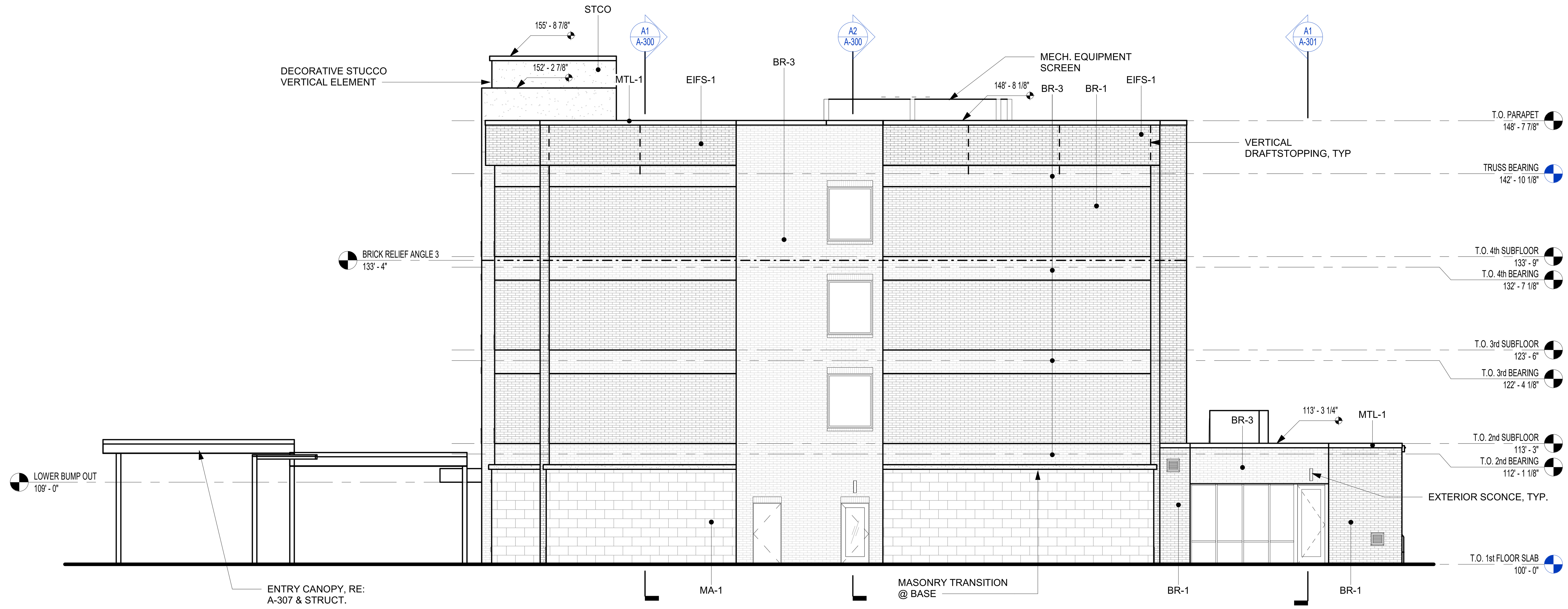
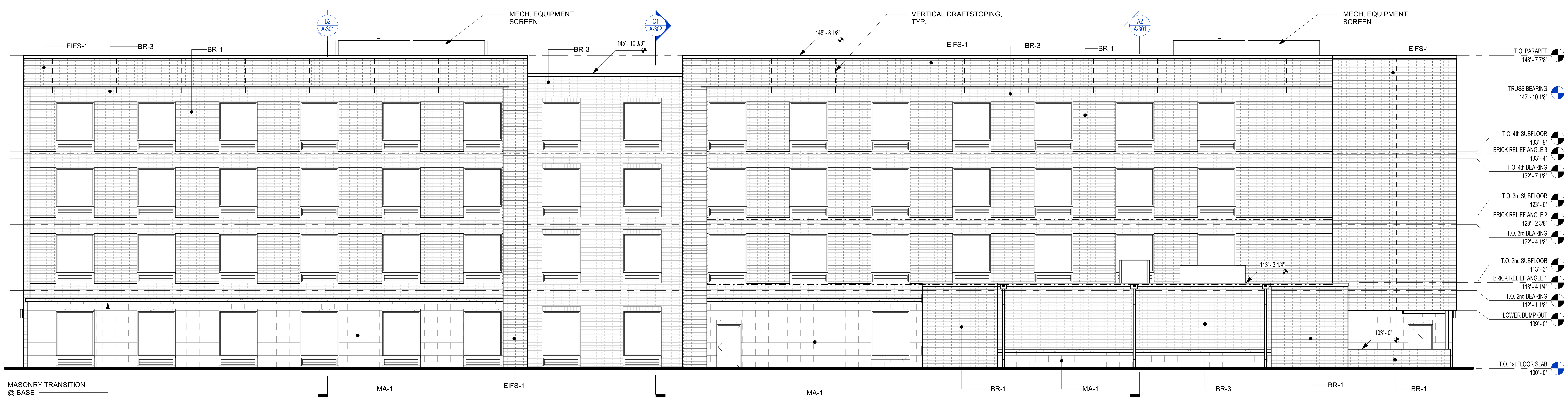
STATE OF MISSOURI
DAVID EUGENE HENDRIKSE
NUMBER A-7305
REGISTERED ARCHITECT
04/17/2024



A2 SIDE ELEVATION
1/8" = 1'-0"



A1 REAR ELEVATION
1/8" = 1'-0"

HOME2 SUITES BY HILTON

LEE'S SUMMIT, MO

SHEET TITLE
EXTERIOR ELEVATIONS

PROJECT NUMBER: 22023

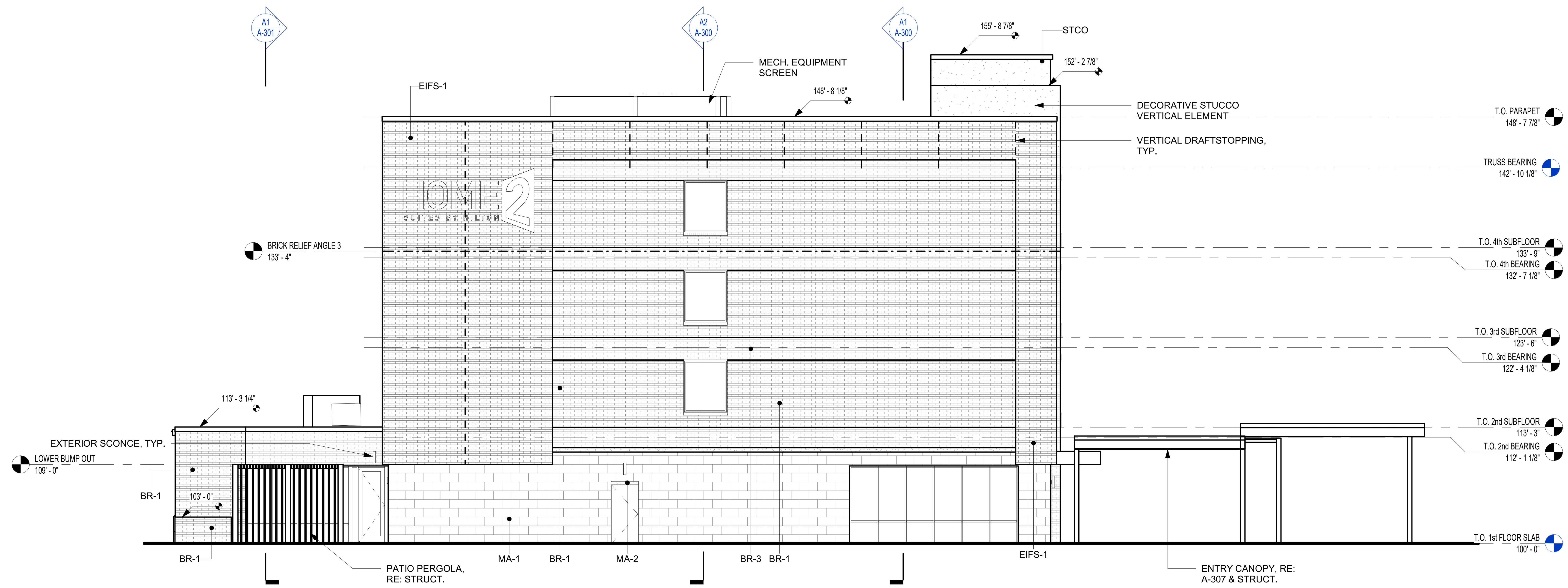
SHEET NUMBER:

A-200

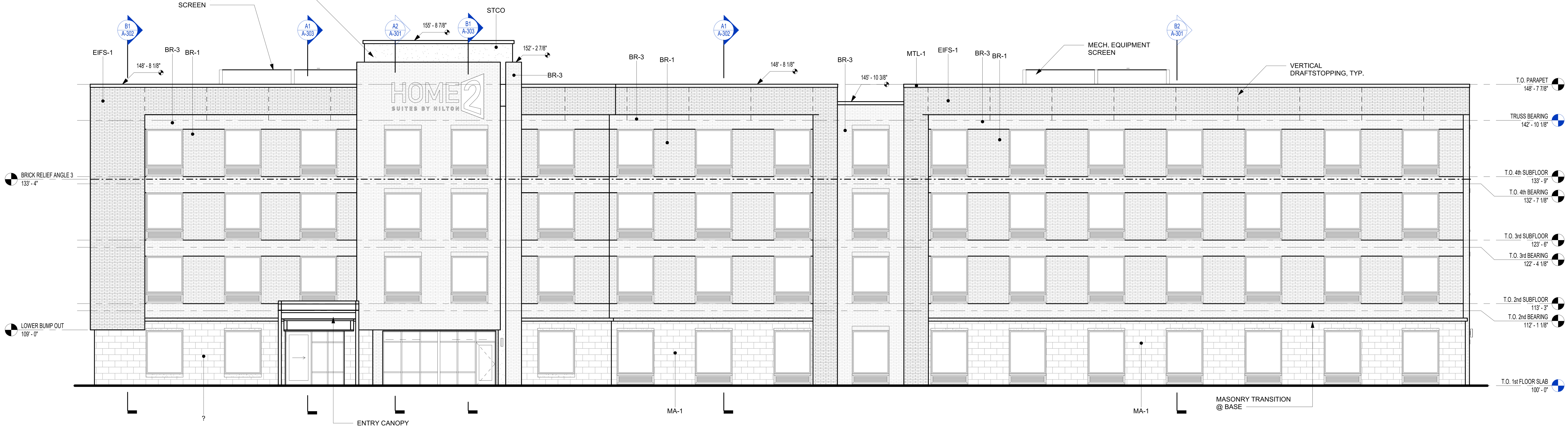
REFERENCE G-003 FOR GENERAL NOTES

MATERIAL LEGEND

- MA-1 - STONE - ROCK FACE
- MA-2 - STONE SILL - SMOOTH FACE
- BR-1 - BRICK - RED
- BR-3 - BRICK - GREY
- EIFS-1 - DARK RED
- MTL-1 - METAL
- STCO - STUCCO DECORATIVE ELEMENT
- BRICK RELIEF ANGLE LOCATION



A2 SIDE ELEVATION
1/8" = 1'-0"



A1 FRONT ELEVATION
1/8" = 1'-0"

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04/17/2024

HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
EXTERIOR ELEVATIONS

PROJECT NUMBER: 22023

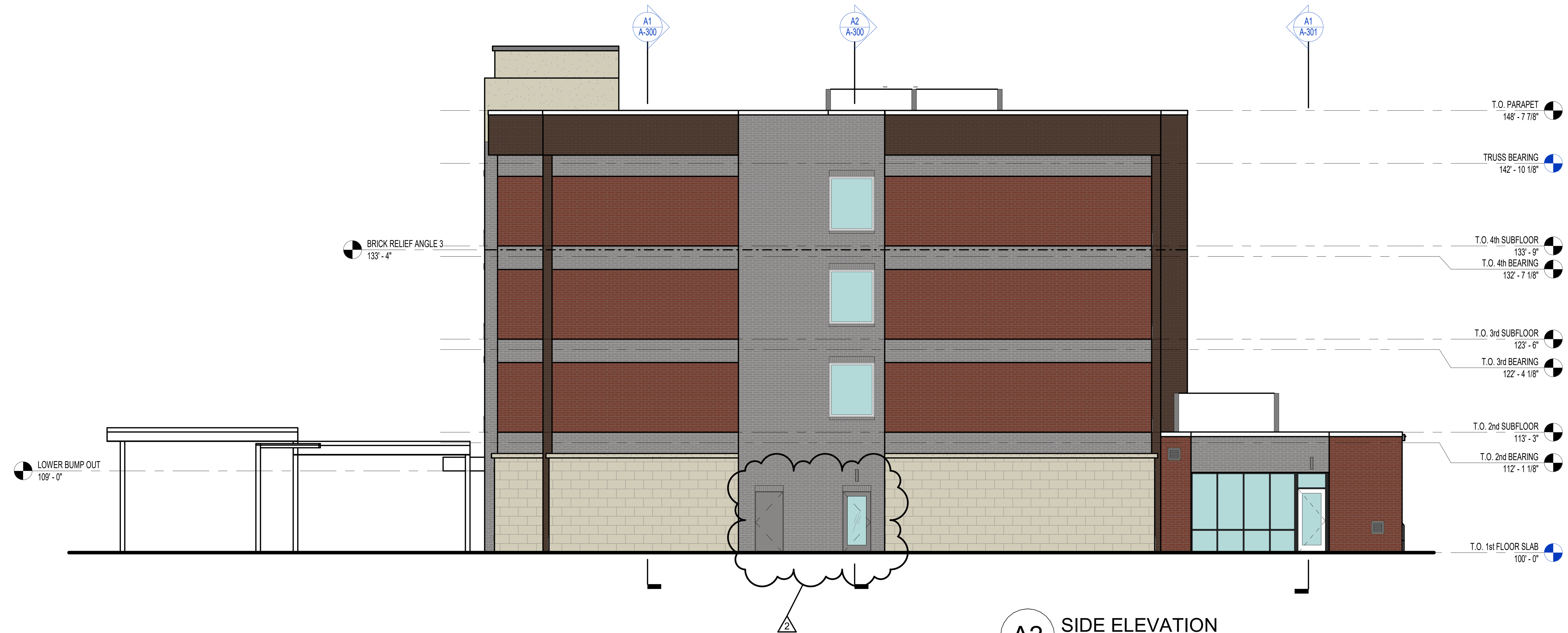
SHEET NUMBER:

A-201

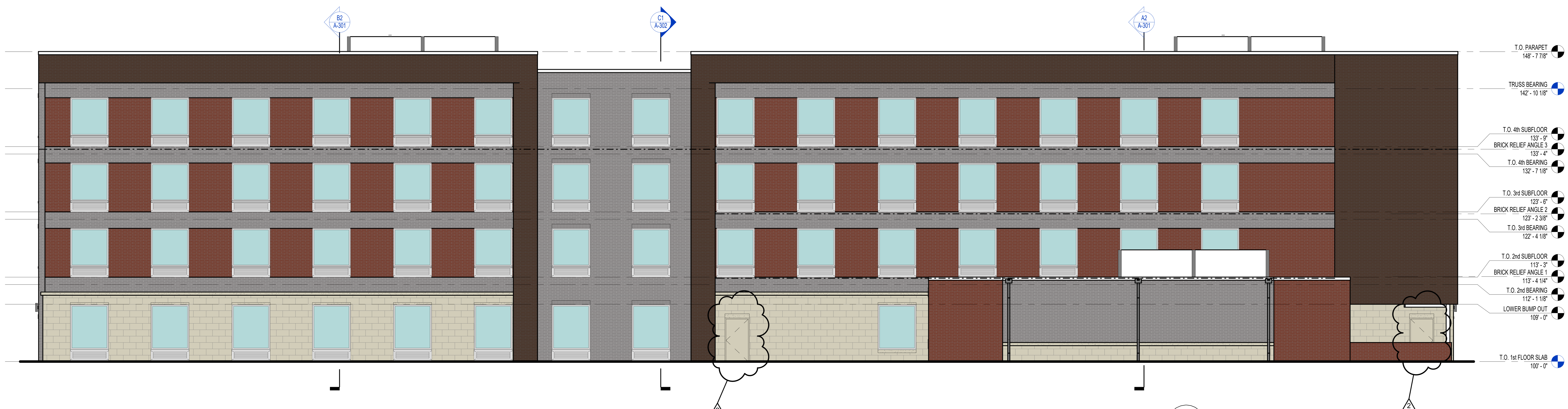
REFERENCE G-003 FOR GENERAL NOTES

MATERIAL LEGEND

- MA-1 - STONE - ROCK FACE
- MA-2 - STONE SILL - SMOOTH FACE
- BR-1 - BRICK - RED
- BR-3 - BRICK - GREY
- EIFS-1 - DARK RED
- MTL-1 - METAL - DARK BRONZE
- STCO - STUCCO - COLOR TO MATCH STONE
- BRICK RELIEF ANGLE LOCATION



A2 SIDE ELEVATION
1/8" = 1'-0"



A1 REAR ELEVATION
1/8" = 1'-0"

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STATE OF MISSOURI
DAVID EUGENE HENDRICKS
NUMBER A-7305
REGISTERED ARCHITECT
06/14/2024

HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
EXTERIOR COLOR ELEVATIONS

PROJECT NUMBER: 22023

SHEET NUMBER:
A-202

REFERENCE G-003 FOR GENERAL NOTES

MATERIAL LEGEND

MA-1	STONE - ROCK FACE
MA-2	STONE SILL - SMOOTH FACE
BR-1	BRICK - RED
BR-3	BRICK - GREY
EIFS-1	DARK RED
MTL-1	METAL - DARK BRONZE
STCO	STUCCO - COLOR TO MATCH STONE
	BRICK RELIEF ANGLE LOCATION

PRINTS ISSUED
04/17/2024 - CITY SUBMISSION

REVISIONS:
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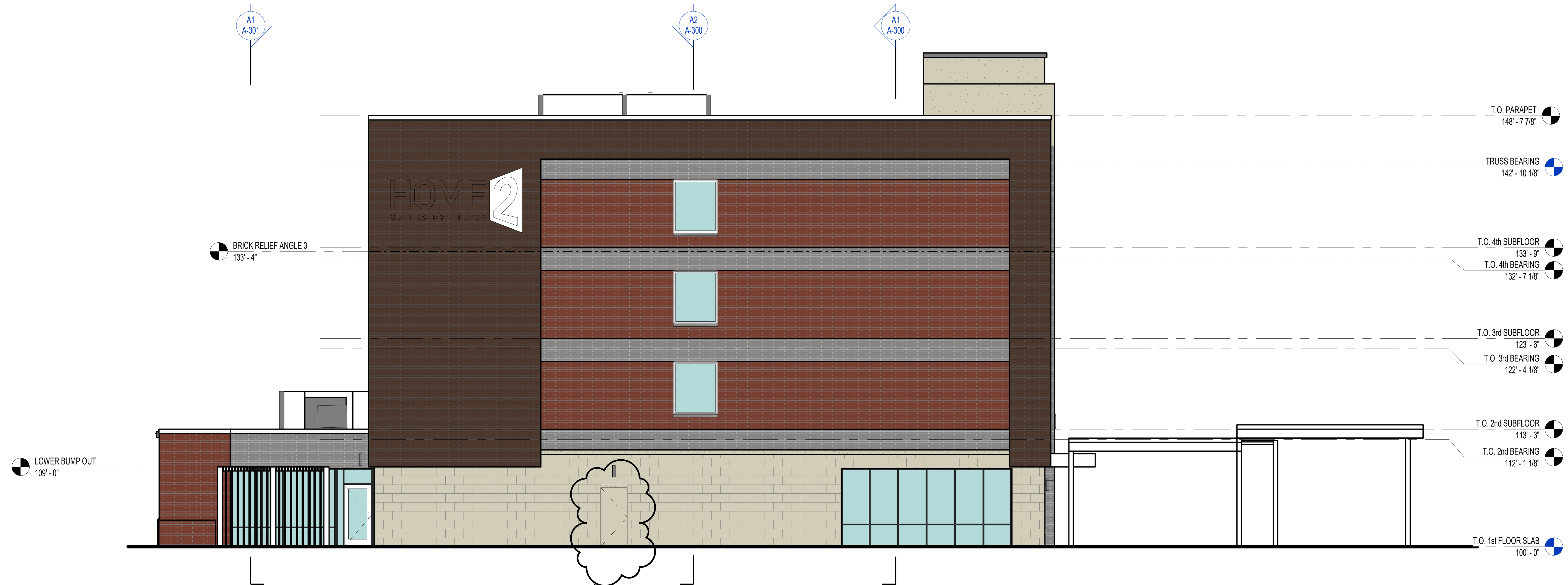

A2 SIDE ELEVATION
1/8" = 1'-0"

A1 FRONT ELEVATION
1/8" = 1'-0"

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STATE OF MISSOURI
DAVID EUGENE HENDRIKSE
NUMBER A-7305
REGISTERED ARCHITECT
06/14/2024

HOME2 SUITES BY HILTON

LEE'S SUMMIT, MO

SHEET TITLE
EXTERIOR COLOR ELEVATIONS

PROJECT NUMBER: 22023

SHEET NUMBER:

A-203

INTERIOR PARTITION ASSEMBLIES - WOOD - NON RATED

P1	**WOOD 2X4 STUD - NON-RATED PARTITION - INTERIOR** • (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD • 2x4 WOOD STUDS SPACED 16" O.C. • (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD
P2	**WOOD 2X6 STUD - NON-RATED PARTITION - INTERIOR** • (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD • 2x6 WOOD STUDS SPACED 16" O.C. • (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD

INTERIOR PARTITION ASSEMBLIES - WOOD - 1 HR RATED

P13	**WOOD 2X6 STUD - 1HR PARTITION - INTERIOR SOUND DAMPENING** • (1) LAYER 5/8" TYPE "X" GYPSUM BOARD • 25 MSG GALVANIZED STEEL RESILIENT CHANNEL, 24" O.C. • 2x6 WOOD STUDS SPACED 16" O.C. MAX. OR PER STRUCT. DWGS. • 5-1/2" FRICTION FIT UNFACED BATT INSULATION IN STUD CAVITY • (1) LAYER 5/8" TYPE "X" GYPSUM BOARD

EXTERIOR PARTITION ASSEMBLIES - WOOD - NON RATED

P36	**WOOD 2x6 STUD - NON-RATED EXTERIOR** *EXTERIOR* • EXTERIOR FINISH SYSTEM PER ELEVATIONS • WEATHER RESISTANT BARRIER, PER SPECIFICATIONS • (1) LAYER SHEATHING PER STRUCT. DWGS. • 2x6 WOOD STUDS SPACED 16" O.C. MAX OR PER STRUCT. DWGS. • (1) LAYER 5/8" TYPE "X" GYPSUM BOARD *INTERIOR*

INTERIOR ASSEMBLIES - CMU / CONCRETE

P41	**CMU 8" BLOCK - 2HR FIRE BARRIER - INTERIOR** • 8" CMU (REINFORCING PER STRUCT)

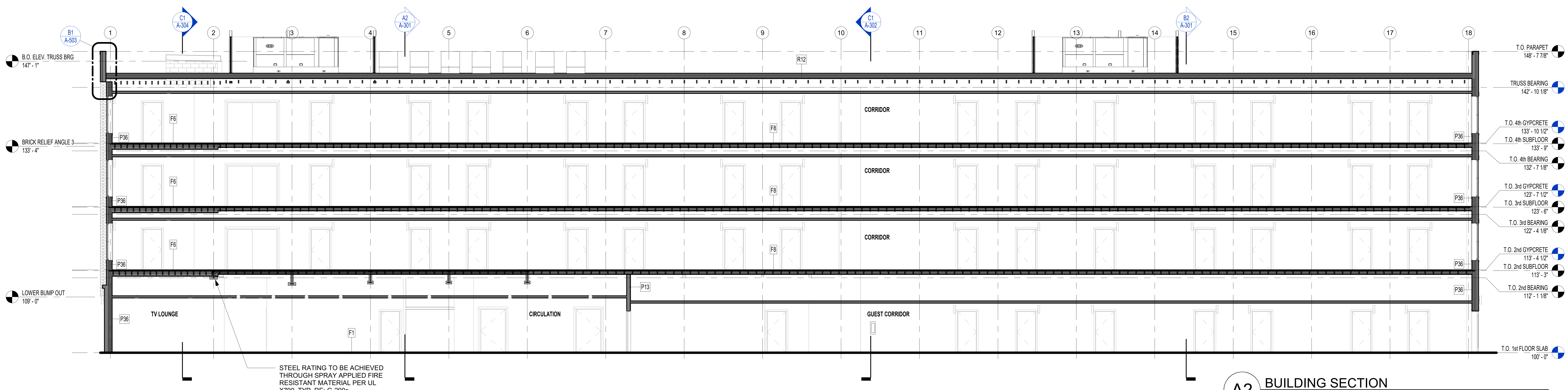
FLOOR/CEILING ASSEMBLY-WOOD

F1	**CONCRETE - NON-RATED - SLAB ON GRADE** • CONCRETE SLAB ON GRADE PER STRUCT. DWGS.
F3	**WOOD OPEN WEB TRUSS - 1HR** • 1-1/2" GYPCRETE TOPPING • 3/4" MIN. PLYWOOD SHEATHING, TYPE 'C/D' , SEE ALSO NOTE b. • WOOD TRUSSES PER STRUCTURAL, REFER TO UL FOR MIN. REQS • UNFACED FIBERGLASS INSULATION COMPLETELY FILLED IN CONCEALED CAVITY TO COMPLY WITH NFPA 13 CONCEALED SPACES. • 25 MSG GALVANIZED RESILIENT CHANNELS, SPACED PER U.L. • (1) LAYER OF 5/8" TYPE 'C' GWB PER UL
F7	**WOOD 2X8 LUMBER - 1HR - CORRIDOR** • 1-1/2" GYPCRETE TOPPING • 3/4" SHEATHING MIN, SEE NOTE b. • 2X8 WOOD JOISTS SPACED PER STRUCTURAL • UNFACED FIBERGLASS INSULATION COMPLETELY FILLED IN CONCEALED CAVITY TO COMPLY WITH NFPA 13 CONCEALED SPACES. • (2) LAYERS OF 5/8" TYPE 'X' GWB PER IBC
F8	**WOOD 2X6 LUMBER - 1HR - CORRIDOR** • 1-1/2" GYPCRETE TOPPING • 3/4" SHEATHING MIN, SEE NOTE b. • 2X6 WOOD JOISTS SPACED PER STRUCTURAL • UNFACED FIBERGLASS INSULATION COMPLETELY FILLED IN CONCEALED CAVITY TO COMPLY WITH NFPA 13 CONCEALED SPACES. • (2) LAYERS 5/8" TYPE X GWB. PER IBC

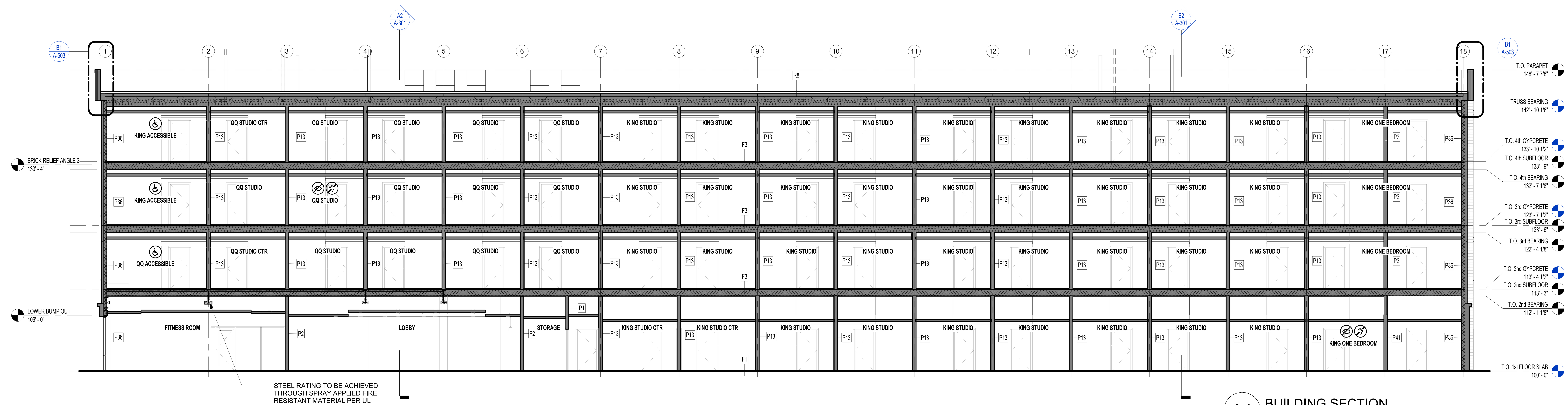
ROOF/CEILING ASSEMBLY-WOOD

R8	**WOOD PARALLEL CHORD TRUSS - 1HR - TPO** • TPO ROOFING, PER SPECIFICATION TO MEET IECC • 1/2" COVERBOARD, NON-COMBUSTIBLE, WATER-RESISTANT • TAPERED INSULATION, SLOPE PER PLAN • 15/32" MIN. ROOF SHEATHING, SEE NOTE b. • WOOD TRUSS FRAMING PER STRUCT. DWGS, MAX SPACING 24" OC - REFERENCE UL FOR CONSTRUCTION • R-38 INSULATION PER IECC, INSTALLED PER UL • VAPOR BARRIER CLASS 1 ON UNDERSIDE OF TRUSS, AS REQUIRED • 25 MSG GALVANIZED STEEL RESILIENT CHANNELS, SPACED PER UL • (1) LAYER OF 5/8" TYPE 'AG-C' GWB, BY AMERICAN GYPSUM CO, PER UL
R12	**WOOD FLAT 2X6 LUMBER - 1HR - TOP OF ELEVATOR** • TPO ROOFING MEMBRANE PER SPECIFICATIONS TO MEET IECC • 1/2" COVERBOARD, NON-COMBUSTIBLE, WATER-RESISTANT • TAPERED INSULATION, SLOPE PER PLAN • R-20 RIGID INSULATION MIN. (OR NECESSARY TO MEET MIN. IECC REQUIREMENT) • VAPOR BARRIER CLASS 1, SELF ADHERED TO SHEATHING, AS REQUIRED • SHEATHING PER STRUCTURAL DWGS. • WOOD 2X6 FRAMING SPACED PER STRUCTURAL • R-19 BATT INSULATION • (2) LAYERS OF 5/8" TYPE 'X' GWB. PER GA ASSEMBLY

REFERENCE G-003 FOR GENERAL NOTES



A2 BUILDING SECTION
1/8" = 1'-0"



A1 BUILDING SECTION
1/8" = 1'-0"

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STATE OF MISSOURI — DAVID EUGENE HENDRICKSE — REGISTERED ARCHITECT
04/17/2024

HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
BUILDING SECTIONS

PROJECT NUMBER: 22023

SHEET NUMBER:

A-300

INTERIOR PARTITION ASSEMBLIES - WOOD - NON RATED

P1
WOOD 2X4 STUD - NON-RATED PARTITION - INTERIOR
- (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD
- 2x4 WOOD STUDS SPACED 16" O.C.
- (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD

P2
WOOD 2X6 STUD - NON-RATED PARTITION - INTERIOR
- (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD
- 2x6 WOOD STUDS SPACED 16" O.C.
- (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD

INTERIOR PARTITION ASSEMBLIES - WOOD - 1 HR RATED

P11
WOOD 2X6 STUD - 1HR PARTITION - INTERIOR
- (1) LAYER 5/8" TYPE "X" GYPSUM BOARD
- 2x6 WOOD STUDS SPACED 16" O.C. MAX, OR PER STRUCT. DWGS.
- 5-1/2" FRICTION FIT UNFACED BATT INSULATION IN STUD CAVITY
- (1) LAYER 5/8" TYPE "X" GYPSUM BOARD

P13
WOOD 2X6 STUD - 1HR PARTITION - INTERIOR SOUND DAMPENING
- (1) LAYER 5/8" TYPE "X" GYPSUM BOARD
- 25 MSG GALVANIZED STEEL RESILIENT CHANNEL, 24" O.C.
- 2x6 WOOD STUDS SPACED 16" O.C. MAX. OR PER STRUCT. DWGS.
- 5-1/2" FRICTION FIT UNFACED BATT INSULATION IN STUD CAVITY
- (1) LAYER 5/8" TYPE "X" GYPSUM BOARD

EXTERIOR PARTITION ASSEMBLIES - WOOD - NON RATED

P36
WOOD 2x6 STUD - NON-RATED EXTERIOR
EXTERIOR
- EXTERIOR FINISH SYSTEM PER ELEVATIONS
- WEATHER RESISTANT BARRIER, PER SPECIFICATIONS
- (1) LAYER SHEATHING PER STRUCT. DWGS.
- 2x6 WOOD STUDS SPACED 16" O.C. MAX OR PER STRUCT. DWGS.
- (1) LAYER 5/8" TYPE "X" GYPSUM BOARD

INTERIOR

FLOOR/CEILING ASSEMBLY-WOOD

F1
CONCRETE - NON-RATED - SLAB ON GRADE
- CONCRETE SLAB ON GRADE PER STRUCT. DWGS.

F3
WOOD OPEN WEB TRUSS - 1HR
- 1-1/2" GYPCRETE TOPPING
- 3/4" MIN. PLYWOOD SHEATHING, TYPE 'C/D' , SEE ALSO NOTE b.
- WOOD TRUSSES PER STRUCTURAL, REFER TO UL FOR MIN. REQS
- UNFACED FIBERGLASS INSULATION COMPLETELY FILLED IN CONCEALED CAVITY TO COMPLY WITH NFPA 13 CONCEALED SPACES.
- 25 MSG GALVANIZED RESILIENT CHANNELS, SPACED PER U.L.
- (1) LAYER OF 5/8" TYPE 'C' GWB PER UL

F8
WOOD 2X6 LUMBER - 1HR - CORRIDOR
- 1-1/2" GYPCRETE TOPPING
- 3/4" SHEATHING MIN, SEE NOTE b.
- 2X6 WOOD JOISTS SPACED PER STRUCTURAL
- UNFACED FIBERGLASS INSULATION COMPLETELY FILLED IN CONCEALED CAVITY TO COMPLY WITH NFPA 13 CONCEALED SPACES.
- (2) LAYERS 5/8" TYPE X GWB. PER IBC

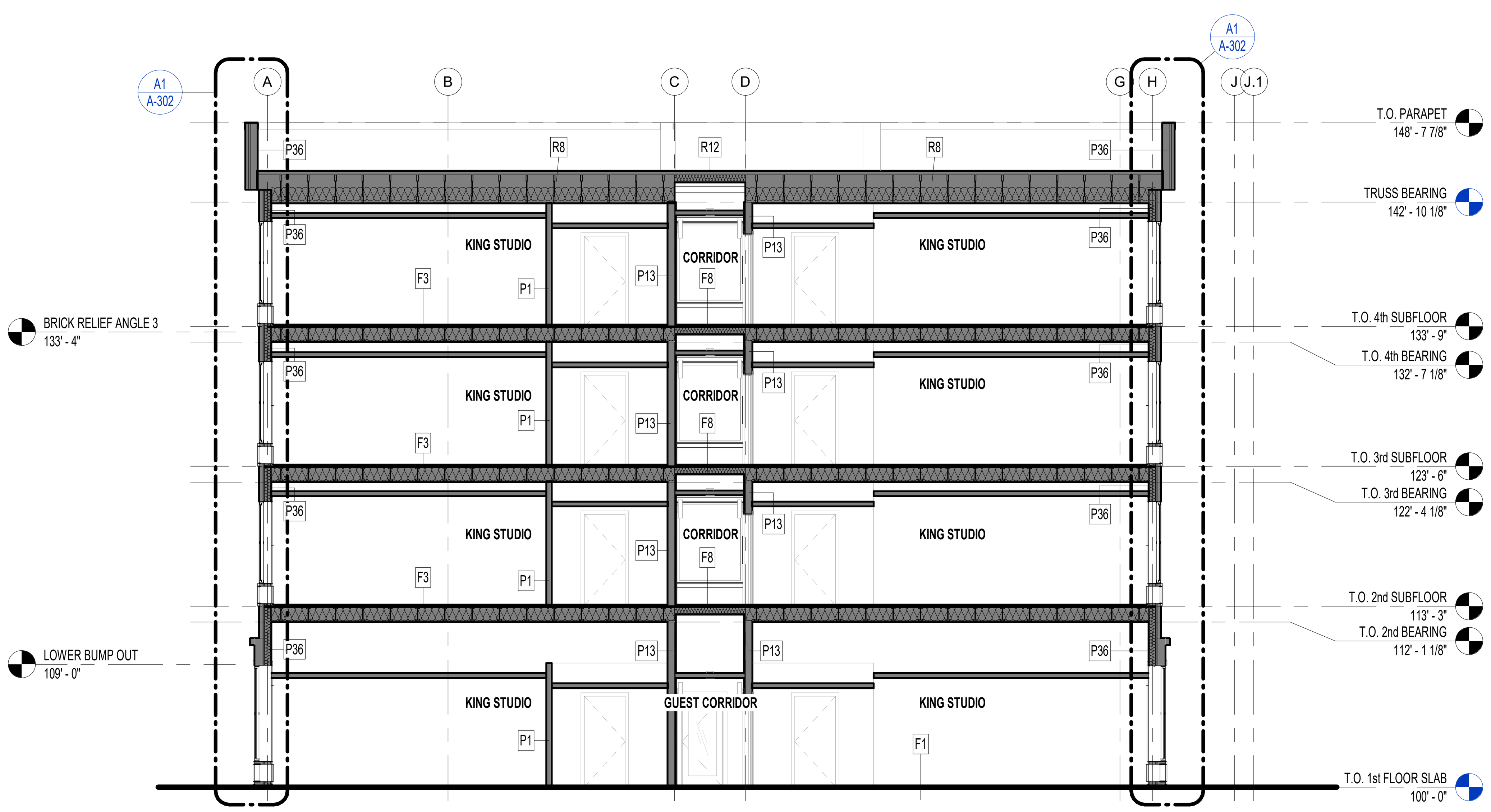
ROOF/CEILING ASSEMBLY-WOOD

R6
WOOD LOW SLOPE TRUSS - 1HR - TPO
- TPO ROOFING MEMBRANE, PER SPECIFICATION TO MEET IECC
- 1/2" COVERBOARD, NON-COMBUSTIBLE, WATER-RESISTANT.
- 15/32" MIN. ROOF SHEATHING, SEE NOTE b.
- TOP CHORD SLOPING WOOD TRUSS FRAMING PER STRUCT. DWGS, MAX SPACING 24" OC - REFERENCE UL FOR CONSTRUCTION, TRUSS PRE-SLOPED TO DRAIN
- R-38 INSULATION PER IECC, INSTALLED PER UL
- VAPOR BARRIER CLASS 1 ON UNDERSIDE OF TRUSS, AS REQUIRED
- 25 MSG GALVANIZED STEEL RESILIENT CHANNELS, SPACED PER UL
- (1) LAYER OF 5/8" TYPE 'AG-C' GWB, BY AMERICAN GYPSUM CO, PER UL

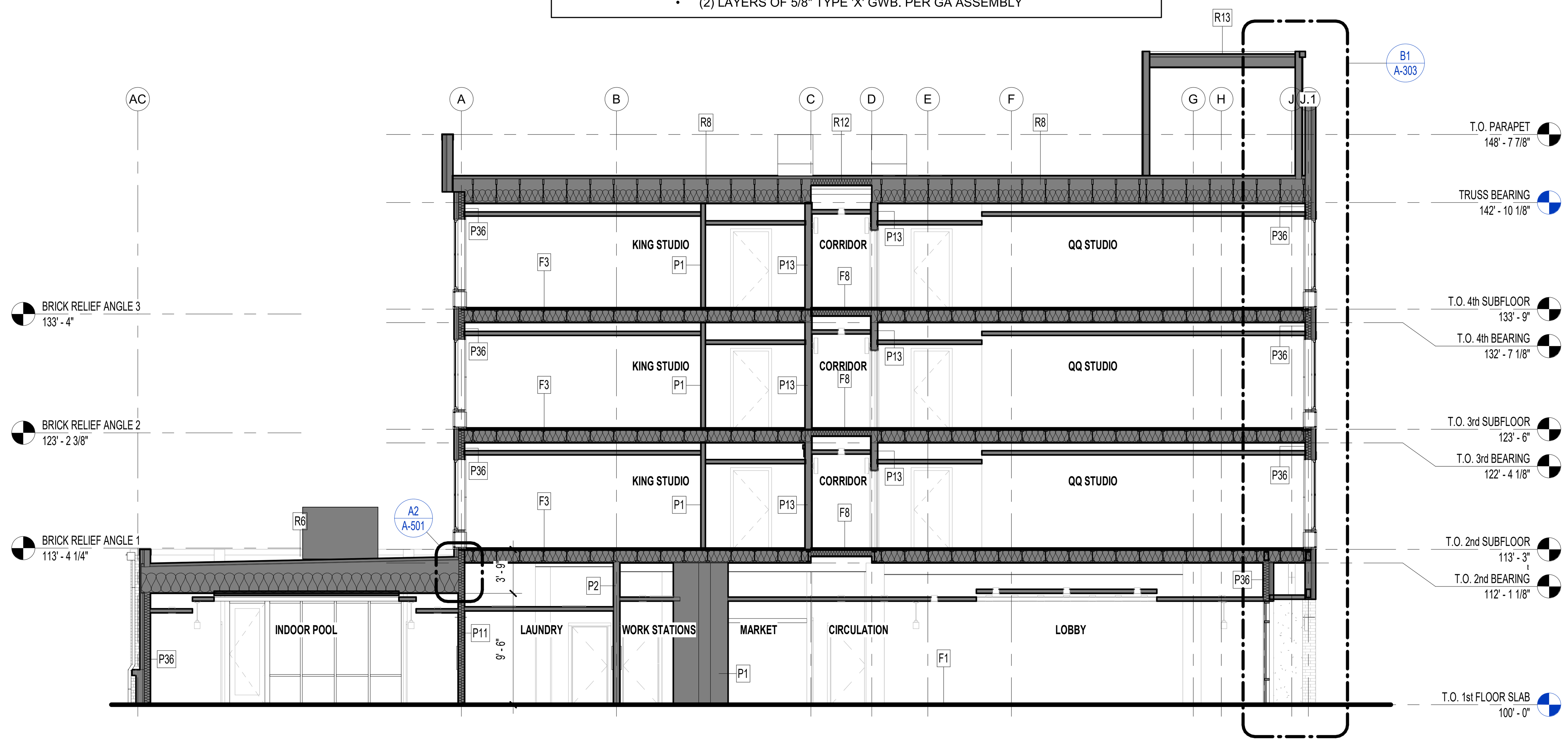
R8
WOOD PARALLEL CHORD TRUSS - 1HR - TPO
- TPO ROOFING, PER SPECIFICATION TO MEET IECC
- 1/2" COVERBOARD, NON-COMBUSTIBLE, WATER-RESISTANT
- TAPERED INSULATION, SLOPE PER PLAN
- 15/32" MIN. ROOF SHEATHING, SEE NOTE b.
- WOOD TRUSS FRAMING PER STRUCT. DWGS, MAX SPACING 24" OC - REFERENCE UL FOR CONSTRUCTION
- R-38 INSULATION PER IECC, INSTALLED PER UL
- VAPOR BARRIER CLASS 1 ON UNDERSIDE OF TRUSS, AS REQUIRED
- 25 MSG GALVANIZED STEEL RESILIENT CHANNELS, SPACED PER UL
- (1) LAYER OF 5/8" TYPE 'AG-C' GWB, BY AMERICAN GYPSUM CO, PER UL

R12
WOOD FLAT 2X6 LUMBER - 1HR - TOP OF ELEVATOR
- TPO ROOFING MEMBRANE PER SPECIFICATIONS TO MEET IECC
- 1/2" COVERBOARD, NON-COMBUSTIBLE, WATER-RESISTANT
- TAPERED INSULATION, SLOPE PER PLAN
- R-20 RIGID INSULATION MIN. (OR NECESSARY TO MEET MIN. IECC REQUIREMENT)
- VAPOR BARRIER CLASS 1, SELF ADHERED TO SHEATHING, AS REQUIRED
- SHEATHING PER STRUCTURAL DWGS.
- WOOD 2X6 FRAMING SPACED PER STRUCTURAL
- R-19 BATT INSULATION
- (2) LAYERS OF 5/8" TYPE 'X' GWB. PER GA ASSEMBLY

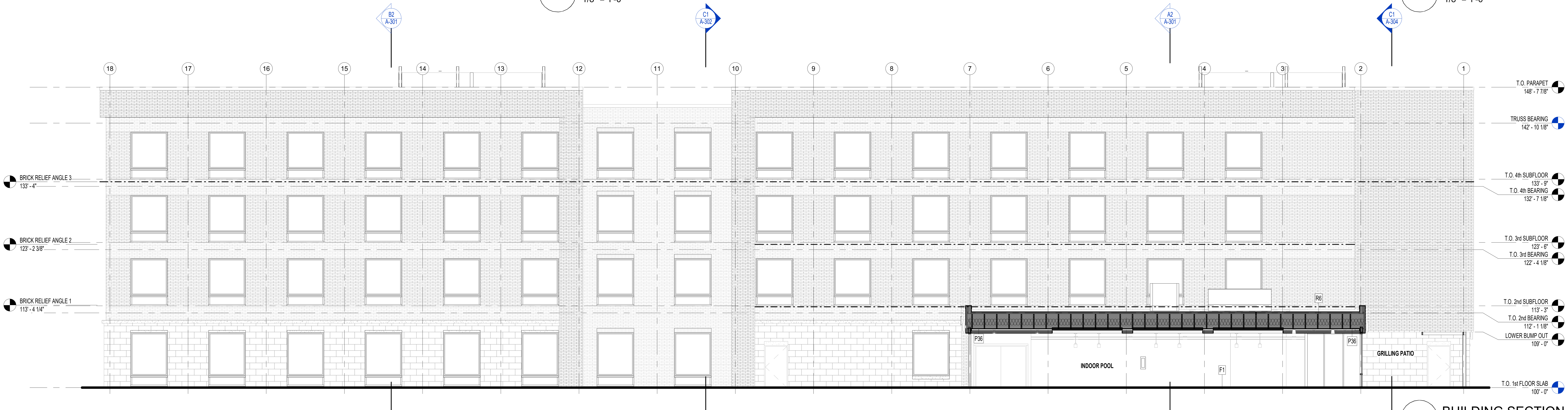
REFERENCE G-003 FOR GENERAL NOTES



B2 BUILDING SECTION
1/8" = 1'-0"



A2 BUILDING SECTION
1/8" = 1'-0"



A1 BUILDING SECTION
1/8" = 1'-0"

PRINTS ISSUED
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STATE OF MISSOURI
DAVID EUGENE HENDRIKSE
NUMBER
REGISTERED ARCHITECT
04/17/2024

HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
BUILDING SECTIONS

PROJECT NUMBER: 22023

SHEET NUMBER:
A-301

REFERENCE G-003 FOR GENERAL NOTES

INTERIOR PARTITION ASSEMBLIES - WOOD - NON RATED

P2	**WOOD 2X6 STUD - NON-RATED PARTITION - INTERIOR** • (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD • 2x6 WOOD STUDS SPACED 16" O.C. • (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD

EXTERIOR PARTITION ASSEMBLIES - WOOD - NON RATED

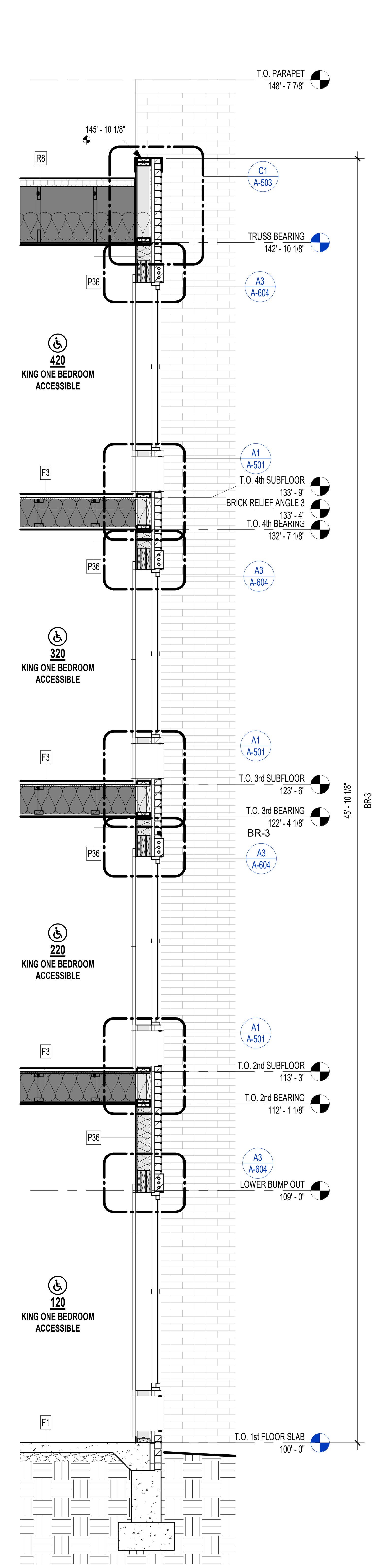
P36	**WOOD 2x6 STUD - NON-RATED EXTERIOR** *EXTERIOR* • EXTERIOR FINISH SYSTEM PER ELEVATIONS • WEATHER RESISTANT BARRIER, PER SPECIFICATIONS • (1) LAYER SHEATHING PER STRUCT. DWGS. • 2x6 WOOD STUDS SPACED 16" O.C. MAX OR PER STRUCT. DWGS. • (1) LAYER 5/8" TYPE "X" GYPSUM BOARD *INTERIOR*

FLOOR/CEILING ASSEMBLY-WOOD

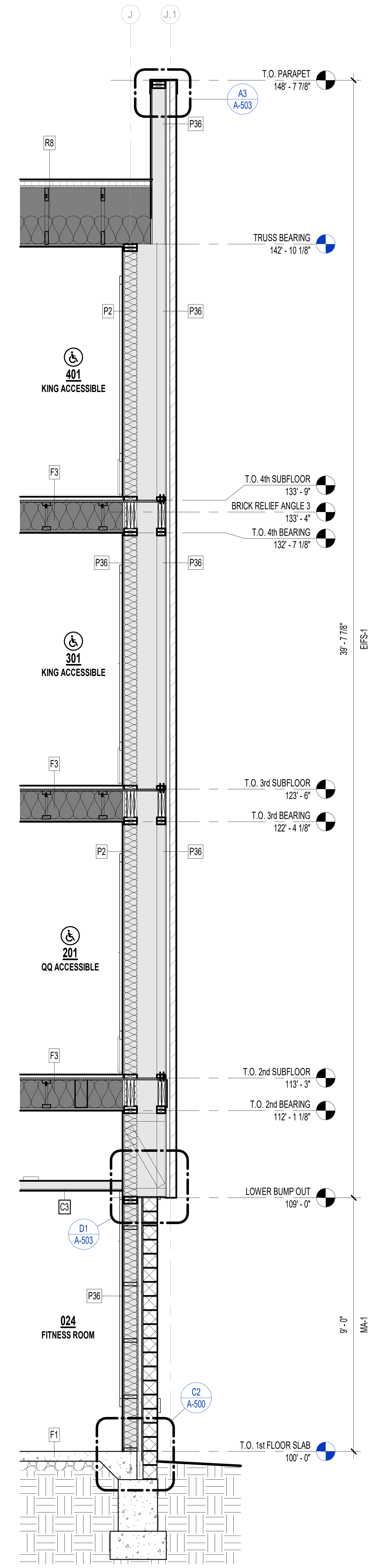
F1	**CONCRETE - NON-RATED - SLAB ON GRADE** • CONCRETE SLAB ON GRADE PER STRUCT. DWGS.
F3	**WOOD OPEN WEB TRUSS - 1HR** • 1-1/2" GYPCRETE TOPPING • 3/4" MIN. PLYWOOD SHEATHING, TYPE 'C/D' , SEE ALSO NOTE b. • WOOD TRUSSES PER STRUCTURAL, REFER TO UL FOR MIN. REQS • UNFACED FIBERGLASS INSULATION COMPLETELY FILLED IN CONCEALED CAVITY TO COMPLY WITH NFPA 13 CONCEALED SPACES. • 25 MSG GALVANIZED RESILIENT CHANNELS, SPACED PER U.L. • (1) LAYER OF 5/8" TYPE 'C' GWB PER UL

ROOF/CEILING ASSEMBLY-WOOD

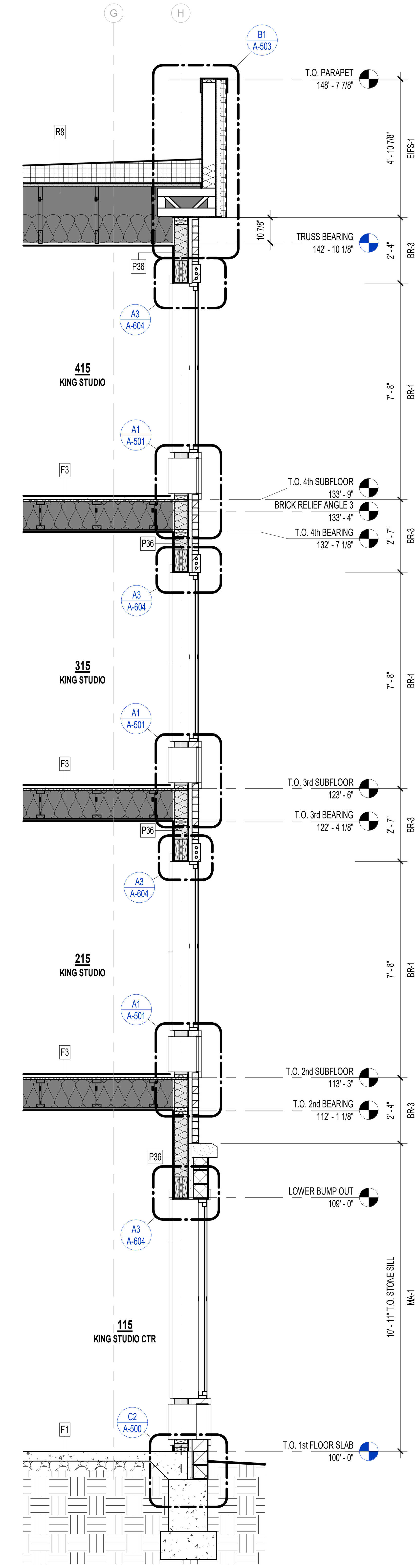
R8	**WOOD PARALLEL CHORD TRUSS - 1HR - TPO** • TPO ROOFING, PER SPECIFICATION TO MEET IECC • 1/2" COVERBOARD, NON-COMBUSTIBLE, WATER-RESISTANT • TAPERED INSULATION, SLOPE PER PLAN • 15/32" MIN. ROOF SHEATHING, SEE NOTE b. • WOOD TRUSS FRAMING PER STRUCT. DWGS, MAX SPACING 24" OC - REFERENCE UL FOR CONSTRUCTION • R-38 INSULATION PER IECC, INSTALLED PER UL • VAPOR BARRIER CLASS 1 ON UNDERSIDE OF TRUSS, AS REQUIRED • 25 MSG GALVANIZED STEEL RESILIENT CHANNELS, SPACED PER UL • (1) LAYER OF 5/8" TYPE 'AG-C' GWB, BY AMERICAN GYPSUM CO, PER UL
R13	**WOOD FLAT 2X10 LUMBER - 1HR - TPO** • TPO ROOFING MEMBRANE PER SPECIFICATIONS TO MEET IECC • 1/2" COVERBOARD, NON-COMBUSTIBLE, WATER-RESISTANT • TAPERED INSULATION, SLOPE PER PLAN • R-20 RIGID INSULATION MIN. (OR NECESSARY TO MEET MIN. IECC REQUIREMENT) • VAPOR BARRIER CLASS 1, SELF ADHERED TO SHEATHING, AS REQUIRED • SHEATHING PER STRUCTURAL DWGS. • WOOD 2X10 FRAMING SPACED PER STRUCTURAL • R-19 BATT INSULATION • (2) LAYERS OF 5/8" TYPE 'X' GWB. PER GA ASSEMBLY



C1 WALL SECTION
3/8" = 1'-0"



B1 WALL SECTION @ EIFS
3/8" = 1'-0"



A1 WALL SECTION TYPICAL
3/8" = 1'-0"

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STATE OF MISSOURI
DAVID EUGENE HENDRIKSE
NUMBER A-7305
REGISTERED ARCHITECT
04/17/2024

HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
WALL SECTIONS

PROJECT NUMBER: 22023

SHEET NUMBER:

A-302

INTERIOR PARTITION ASSEMBLIES - WOOD - NON RATED

P2

WOOD 2X6 STUD - NON-RATED PARTITION - INTERIOR
- (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD
- 2x6 WOOD STUDS SPACED 16" O.C.
- (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD

EXTERIOR PARTITION ASSEMBLIES - WOOD - NON RATED

P36

WOOD 2x6 STUD - NON-RATED EXTERIOR

EXTERIOR
- EXTERIOR FINISH SYSTEM PER ELEVATIONS
- WEATHER RESISTANT BARRIER, PER SPECIFICATIONS
- (1) LAYER SHEATHING PER STRUCT. DWGS.
- 2x6 WOOD STUDS SPACED 16" O.C. MAX OR PER STRUCT. DWGS.
- (1) LAYER 5/8" TYPE "X" GYPSUM BOARD

INTERIOR

FLOOR/CEILING ASSEMBLY-WOOD

F1

CONCRETE - NON-RATED - SLAB ON GRADE
- CONCRETE SLAB ON GRADE PER STRUCT. DWGS.

F3

WOOD OPEN WEB TRUSS - 1HR
- 1-1/2" GYPCRETE TOPPING
- 3/4" MIN. PLYWOOD SHEATHING, TYPE 'C/D' , SEE ALSO NOTE b.
- WOOD TRUSSES PER STRUCTURAL, REFER TO UL FOR MIN. REQS
- UNFACED FIBERGLASS INSULATION COMPLETELY FILLED IN CONCEALED CAVITY TO COMPLY WITH NFPA 13 CONCEALED SPACES.
- 25 MSG GALVANIZED RESILIENT CHANNELS, SPACED PER U.L.
- (1) LAYER OF 5/8" TYPE 'C' GWB PER UL

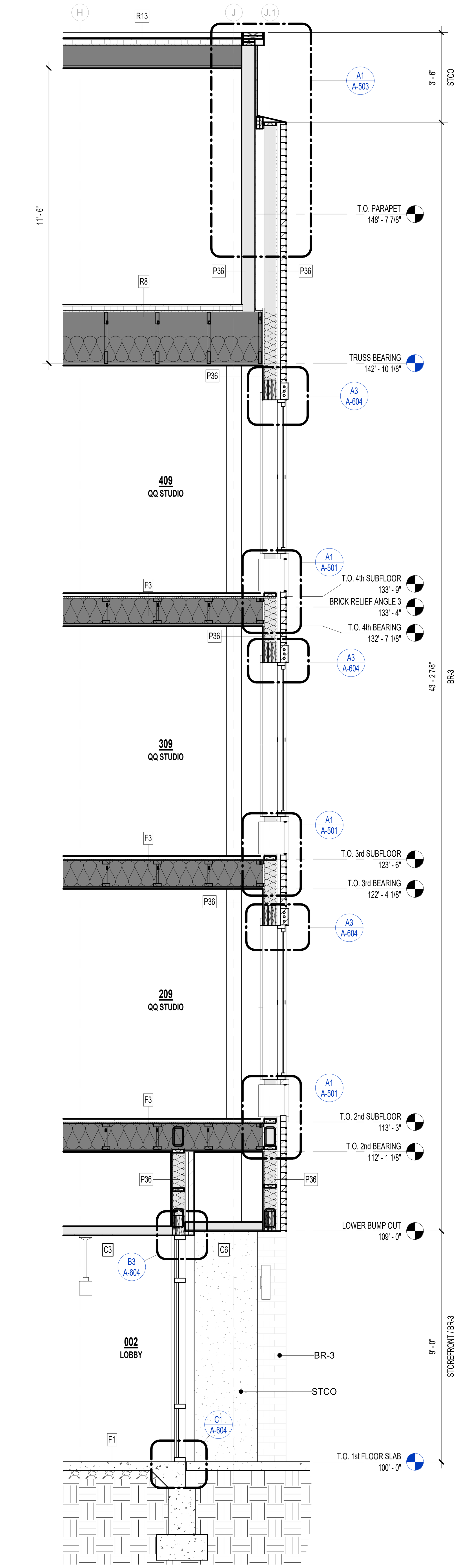
ROOF/CEILING ASSEMBLY-WOOD

R8

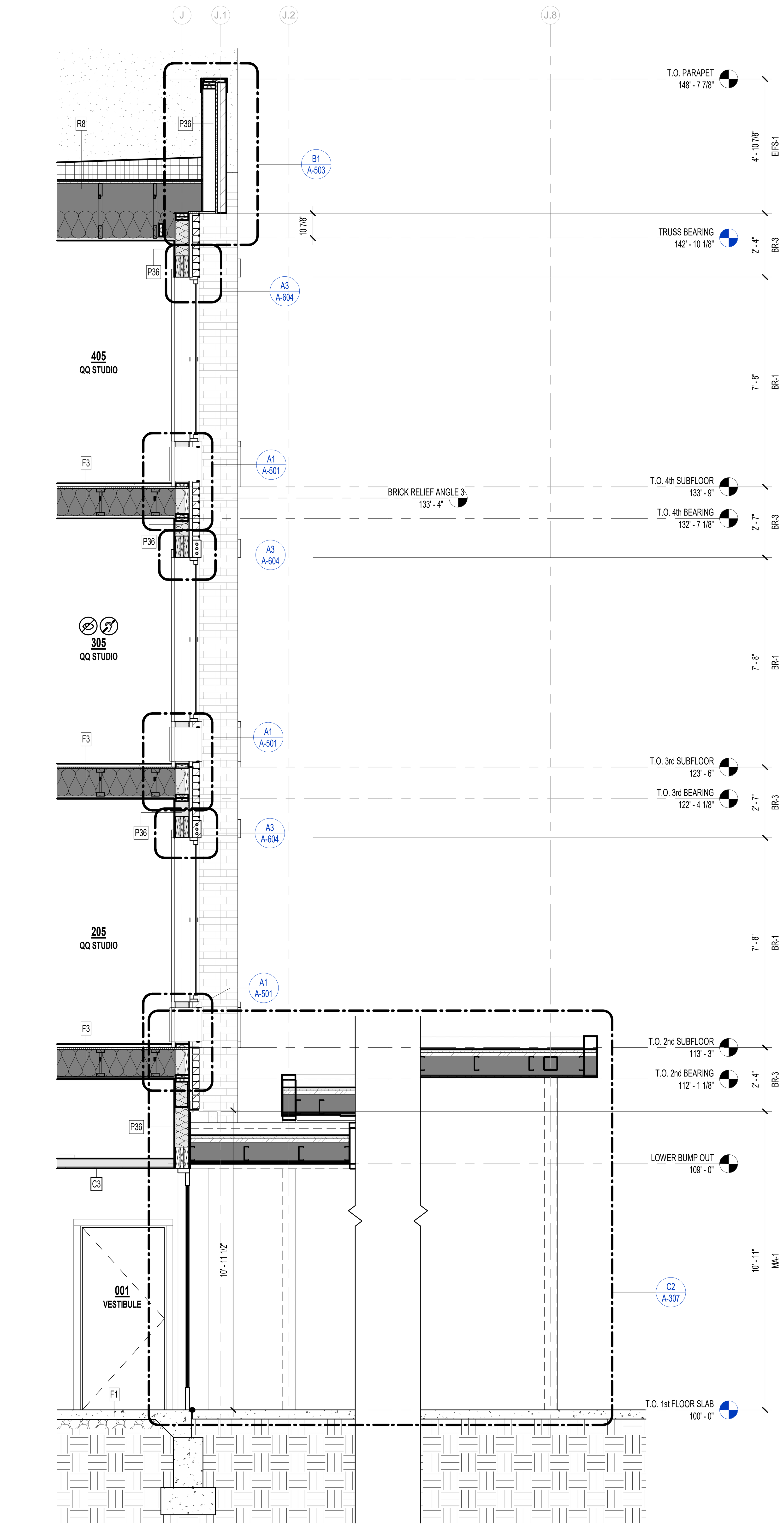
WOOD PARALLEL CHORD TRUSS - 1HR - TPO
- TPO ROOFING, PER SPECIFICATION TO MEET IECC
- 1/2" COVERBOARD, NON-COMBUSTIBLE, WATER-RESISTANT
- TAPERED INSULATION, SLOPE PER PLAN
- 15/32" MIN. ROOF SHEATHING, SEE NOTE b.
- WOOD TRUSS FRAMING PER STRUCT. DWGS, MAX SPACING 24" OC - REFERENCE UL FOR CONSTRUCTION
- R-38 INSULATION PER IECC, INSTALLED PER UL
- VAPOR BARRIER CLASS 1 ON UNDERSIDE OF TRUSS, AS REQUIRED
- 25 MSG GALVANIZED STEEL RESILIENT CHANNELS, SPACED PER UL
- (1) LAYER OF 5/8" TYPE 'AG-C' GWB, BY AMERICAN GYPSUM CO, PER UL

R13

WOOD FLAT 2X10 LUMBER - 1HR - TPO
- TPO ROOFING MEMBRANE PER SPECIFICATIONS TO MEET IECC
- 1/2" COVERBOARD, NON-COMBUSTIBLE, WATER-RESISTANT
- TAPERED INSULATION, SLOPE PER PLAN
- R-20 RIGID INSULATION MIN. (OR NECESSARY TO MEET MIN. IECC REQUIREMENT)
- VAPOR BARRIER CLASS 1, SELF ADHERED TO SHEATHING, AS REQUIRED
- SHEATHING PER STRUCTURAL DWGS.
- WOOD 2X10 FRAMING SPACED PER STRUCTURAL
- R-19 BATT INSULATION
- (2) LAYERS OF 5/8" TYPE 'X' GWB. PER GA ASSEMBLY



B1 WALL SECTION AT BEACON
3/8" = 1'-0"



A1 WALL SECTION AT CANOPY
3/8" = 1'-0"

REFERENCE G-003 FOR GENERAL NOTES

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STATE OF MISSOURI
DAVID EUGENE HENDRICKSE
NUMBER A-7305
REGISTERED ARCHITECT
04/17/2024

HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

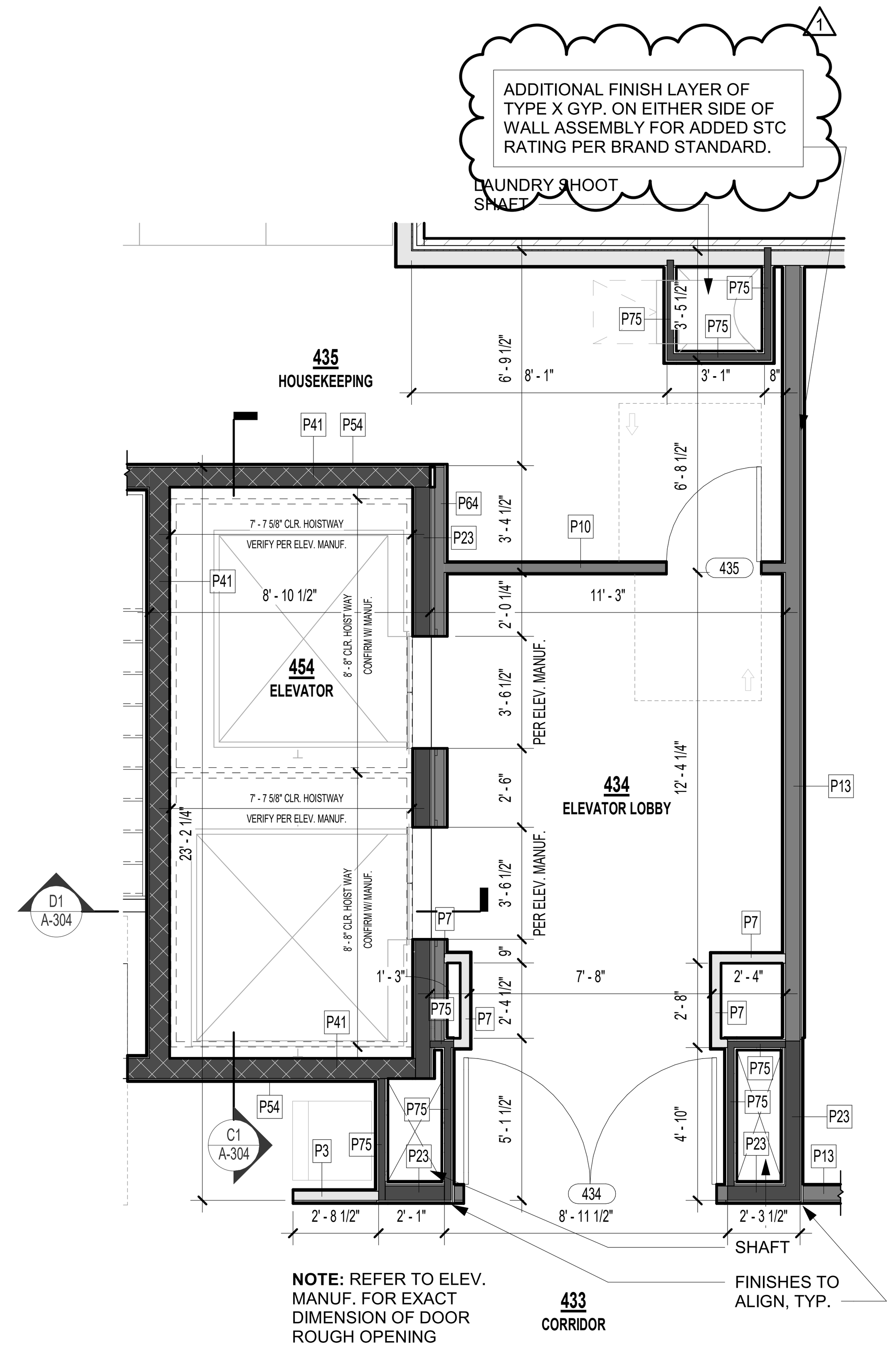
SHEET TITLE
WALL SECTIONS

PROJECT NUMBER: 22023

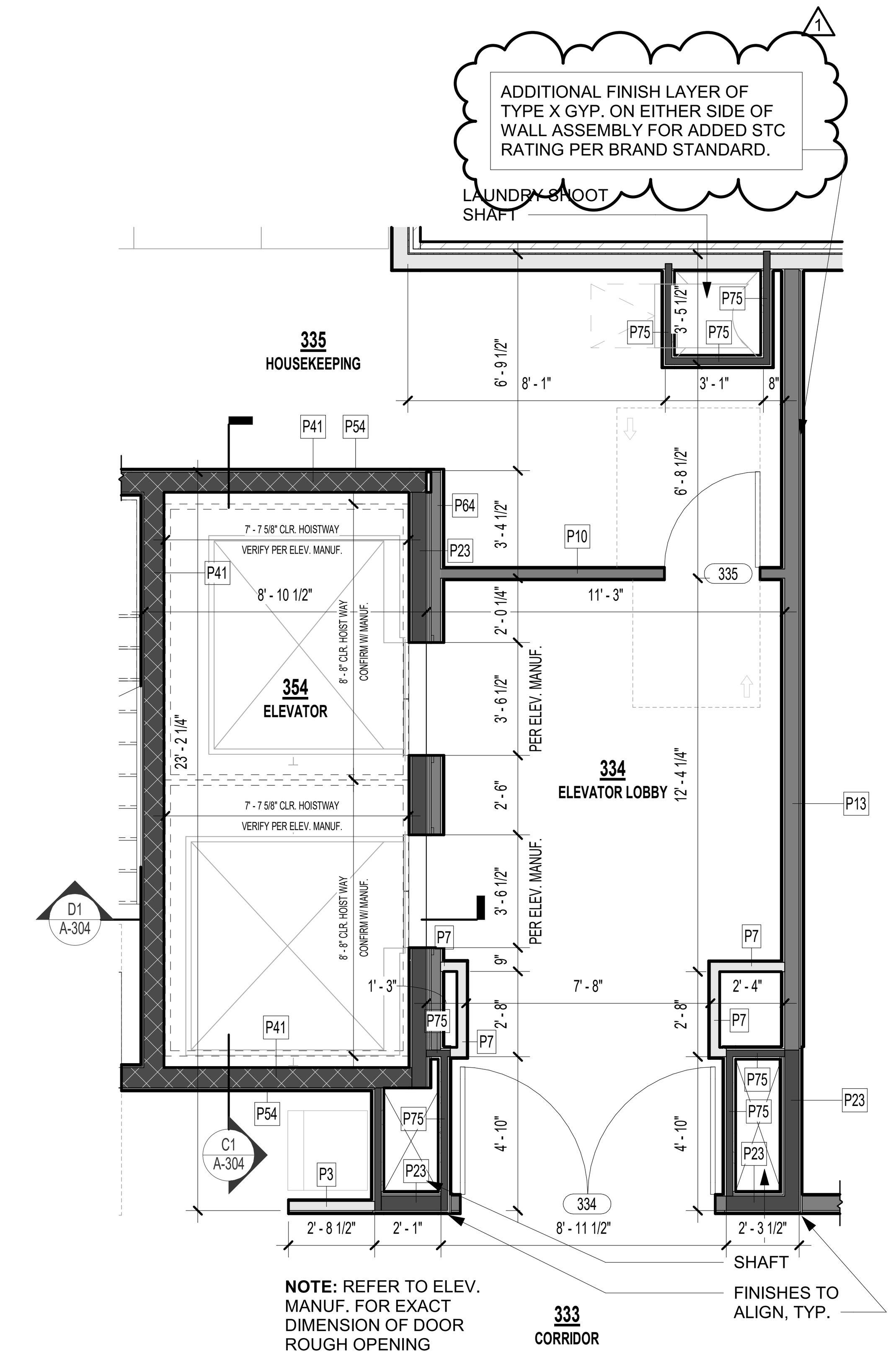
SHEET NUMBER:

A-303

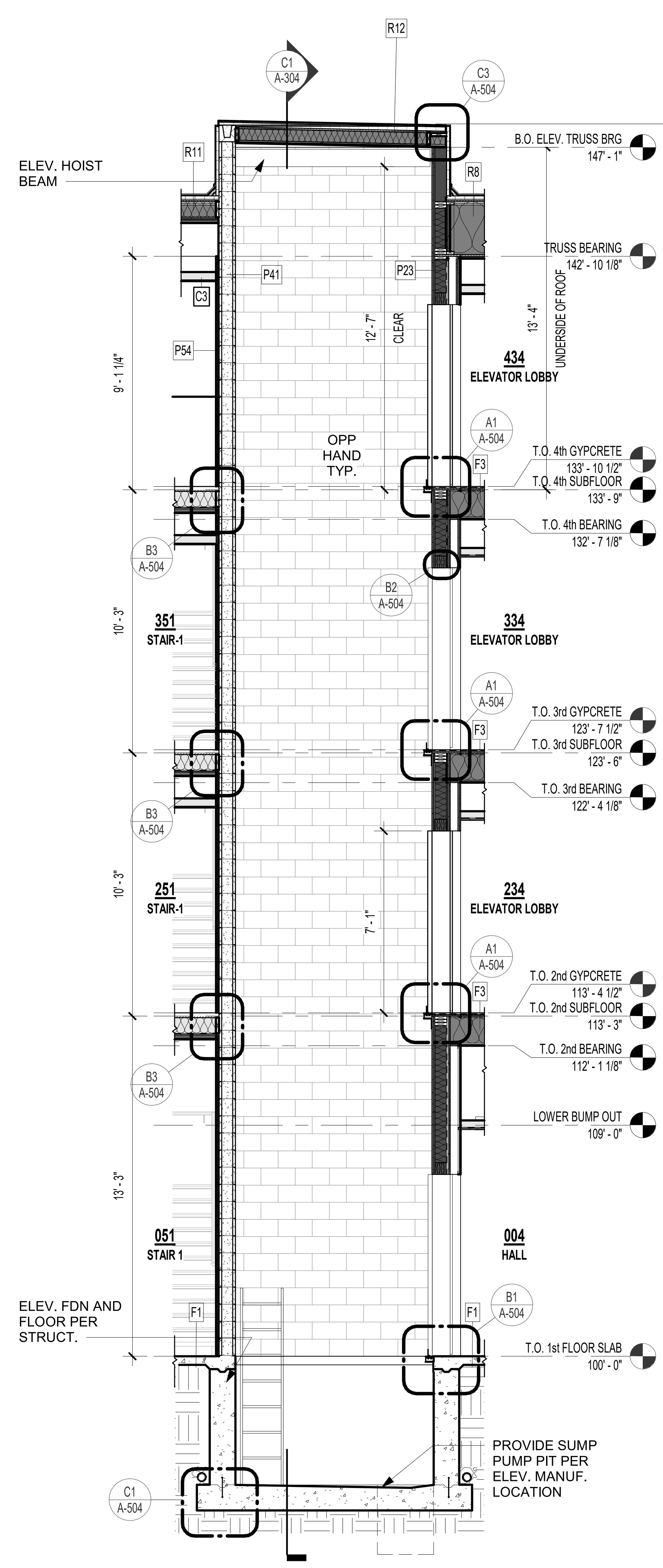
REFERENCE G-003 FOR GENERAL NOTES



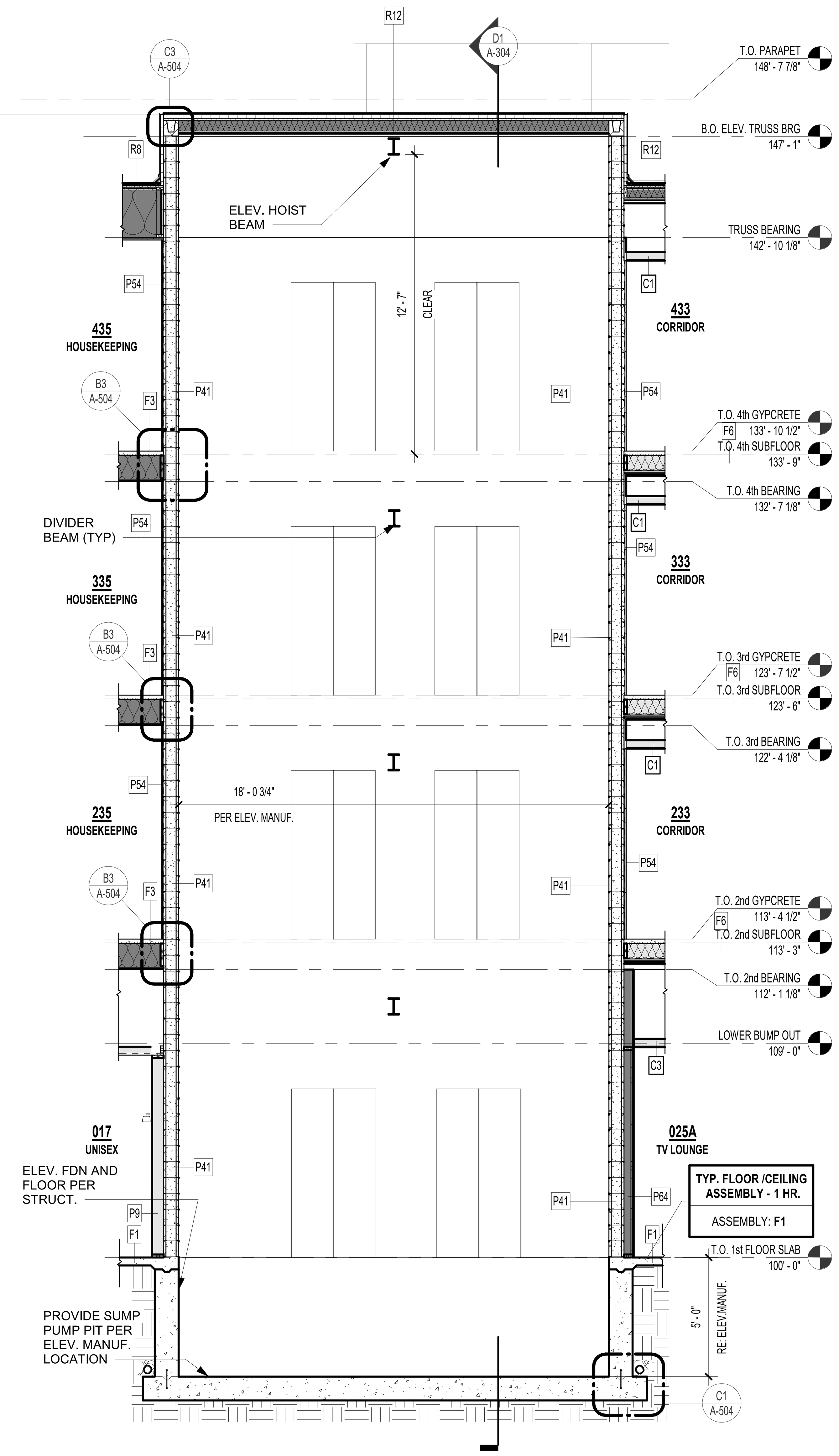
B2 4TH FLOOR PLAN - ENLARGED ELEVATOR
1/4" = 1'-0"



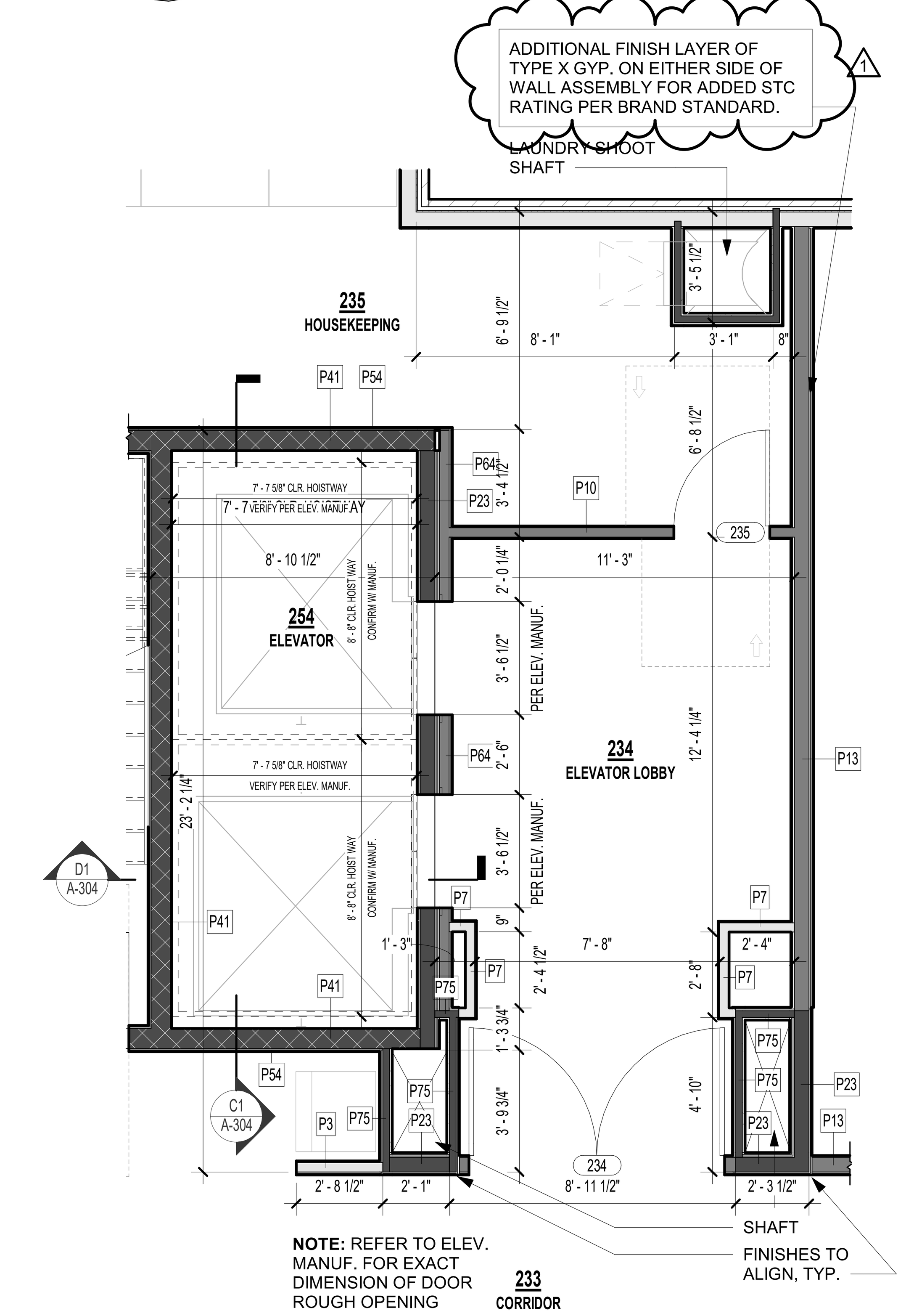
A2 3RD FLOOR PLAN - ENLARGED ELEVATOR
1/4" = 1'-0"



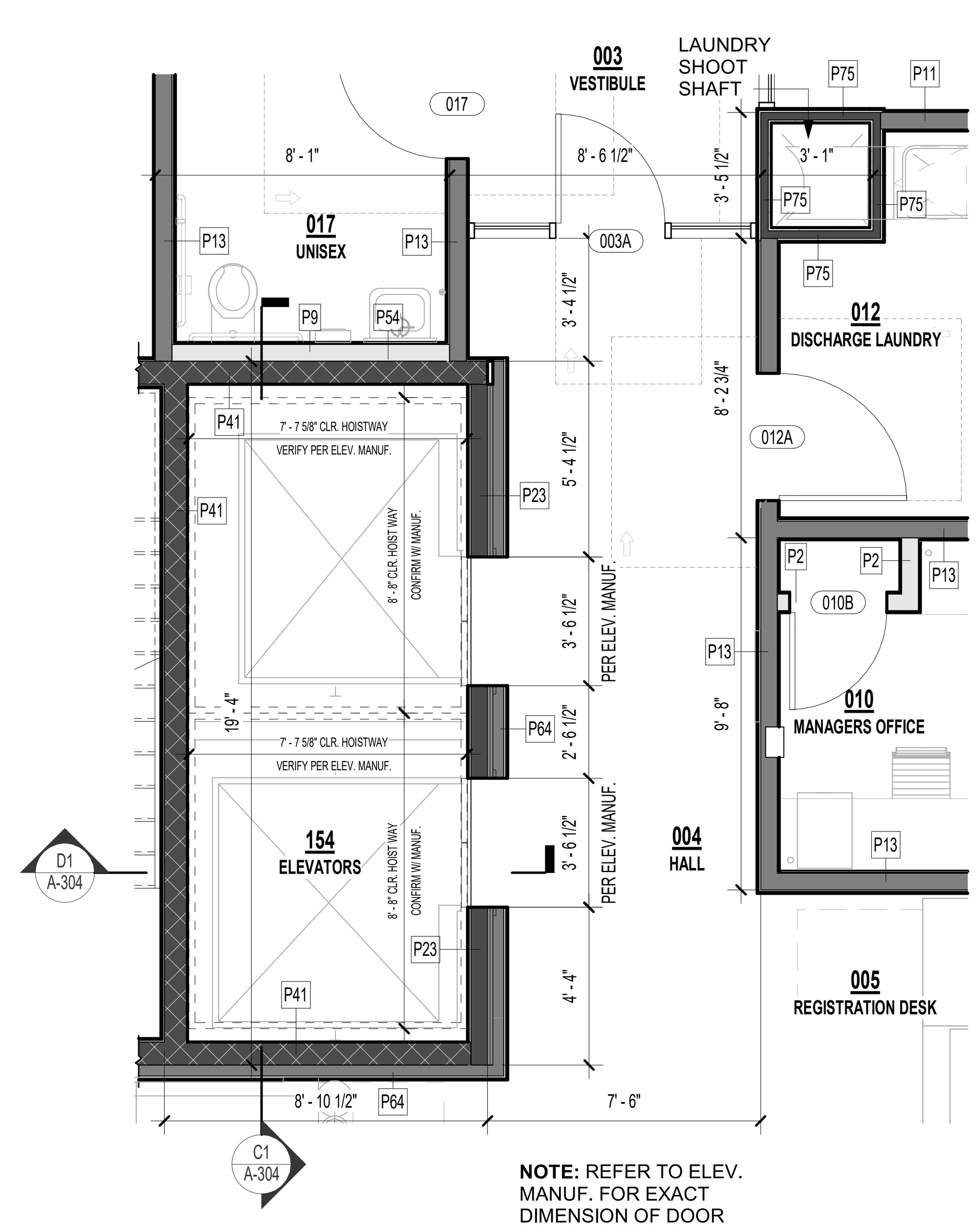
D1 ELEVATOR - SECTION 2
1/4" = 1'-0"



C1 ELEVATOR - SECTION 1
1/4" = 1'-0"



B1 2ND FLOOR PLAN - ENLARGED ELEVATOR
1/4" = 1'-0"



A1 1ST FLOOR PLAN - ENLARGED ELEVATOR
1/4" = 1'-0"

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1 05/17/2024 CITY RESPONSE

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STATE OF MISSOURI
DAVID EUGENE HENDRIKSE
NUMBER A-7305
REGISTERED ARCHITECT
05/17/2024

HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
ELEVATOR SECTIONS & DETAILS

PROJECT NUMBER: 22023

SHEET NUMBER:

A-304

REFERENCE G-003 FOR GENERAL NOTES

INTERIOR PARTITION ASSEMBLIES - WOOD - NON RATED

P1	**WOOD 2X4 STUD - NON-RATED PARTITION - INTERIOR** • (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD • 2x4 WOOD STUDS SPACED 16" O.C. • (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD
P9	**WOOD 2X6 STUD - NON-RATED FURRING - INTERIOR** • (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD ON OCCUPIED SIDE • 2x6 WOOD STUDS SPACED 16" O.C.

INTERIOR PARTITION ASSEMBLIES - WOOD - 1 HR RATED

P13	**WOOD 2X6 STUD - 1HR PARTITION - INTERIOR SOUND DAMPENING** • (1) LAYER 5/8" TYPE "X" GYPSUM BOARD • 25 MSG GALVANIZED STEEL RESILIENT CHANNEL, 24" O.C. • 2x6 WOOD STUDS SPACED 16" O.C. MAX. OR PER STRUCT. DWGS. • 5-1/2" FRICTION FIT UNFACED BATT INSULATION IN STUD CAVITY • (1) LAYER 5/8" TYPE "X" GYPSUM BOARD

EXTERIOR PARTITION ASSEMBLIES - WOOD - NON RATED

P36	**WOOD 2x6 STUD - NON-RATED EXTERIOR** *EXTERIOR* • EXTERIOR FINISH SYSTEM PER ELEVATIONS • WEATHER RESISTANT BARRIER, PER SPECIFICATIONS • (1) LAYER SHEATHING PER STRUCT. DWGS. • 2x6 WOOD STUDS SPACED 16" O.C. MAX OR PER STRUCT. DWGS. • (1) LAYER 5/8" TYPE "X" GYPSUM BOARD *INTERIOR*

INTERIOR PARTITION ASSEMBLIES (METAL-NON-RATED)

P54	**METAL 1/2" FURRING / HAT CHANNEL - NON-RATED FURRING - INTERIOR** • (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD • 1/2" FURRING / HAT CHANNEL, SPACED 16" O.C. (GAUGE DETERMINED BY WALL HEIGHT)

INTERIOR PARTITION ASSEMBLIES (METAL-1 HR RATED)

P64	**METAL 3-5/8" STUD - 1HR PARTITION - INTERIOR** • (2) LAYERS 5/8" TYPE "X" GYPSUM BOARD • 3-5/8" STUDS SPACED 16" O.C. MAX, OR PER STRUCT. DWGS.

INTERIOR ASSEMBLIES - CMU / CONCRETE

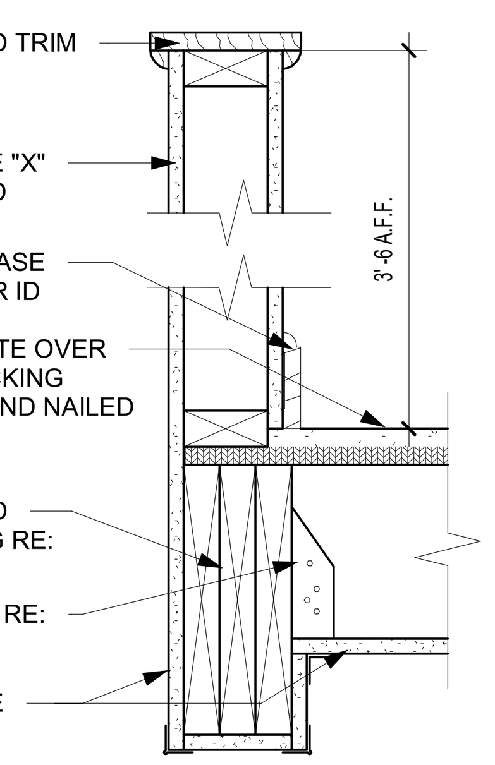
P41	**CMU 8" BLOCK - 2HR FIRE BARRIER - INTERIOR** • 8" CMU (REINFORCING PER STRUCT)

FLOOR/CEILING ASSEMBLY-WOOD

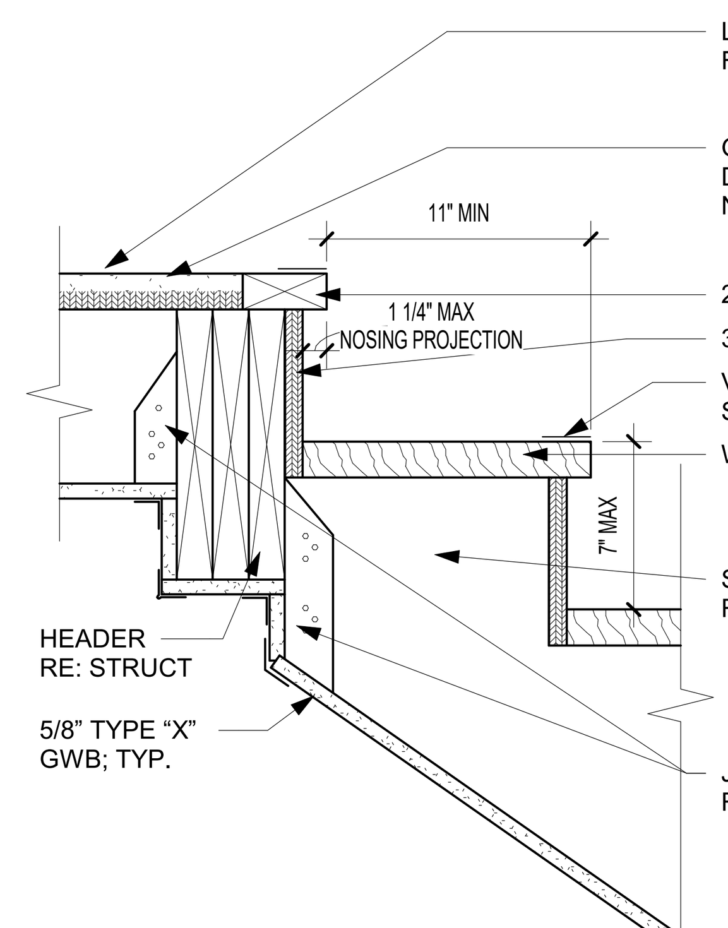
F1	**CONCRETE - NON-RATED - SLAB ON GRADE** • CONCRETE SLAB ON GRADE PER STRUCT. DWGS.
F3	**WOOD OPEN WEB TRUSS - 1HR** • 1-1/2" GYPCRETE TOPPING • 3/4" MIN. PLYWOOD SHEATHING, TYPE 'C/D' , SEE ALSO NOTE b. • WOOD TRUSSES PER STRUCTURAL, REFER TO UL FOR MIN. REQS • UNFACED FIBERGLASS INSULATION COMPLETELY FILLED IN CONCEALED CAVITY TO COMPLY WITH NFPA 13 CONCEALED SPACES. • 25 MSG GALVANIZED RESILIENT CHANNELS, SPACED PER U.L. • (1) LAYER OF 5/8" TYPE 'C' GWB PER UL
F7	**WOOD 2X8 LUMBER - 1HR - CORRIDOR** • 1-1/2" GYPCRETE TOPPING • 3/4" SHEATHING MIN, SEE NOTE b. • 2X8 WOOD JOISTS SPACED PER STRUCTURAL • UNFACED FIBERGLASS INSULATION COMPLETELY FILLED IN CONCEALED CAVITY TO COMPLY WITH NFPA 13 CONCEALED SPACES. • (2) LAYERS OF 5/8" TYPE 'X' GWB PER IBC

ROOF/CEILING ASSEMBLY-WOOD

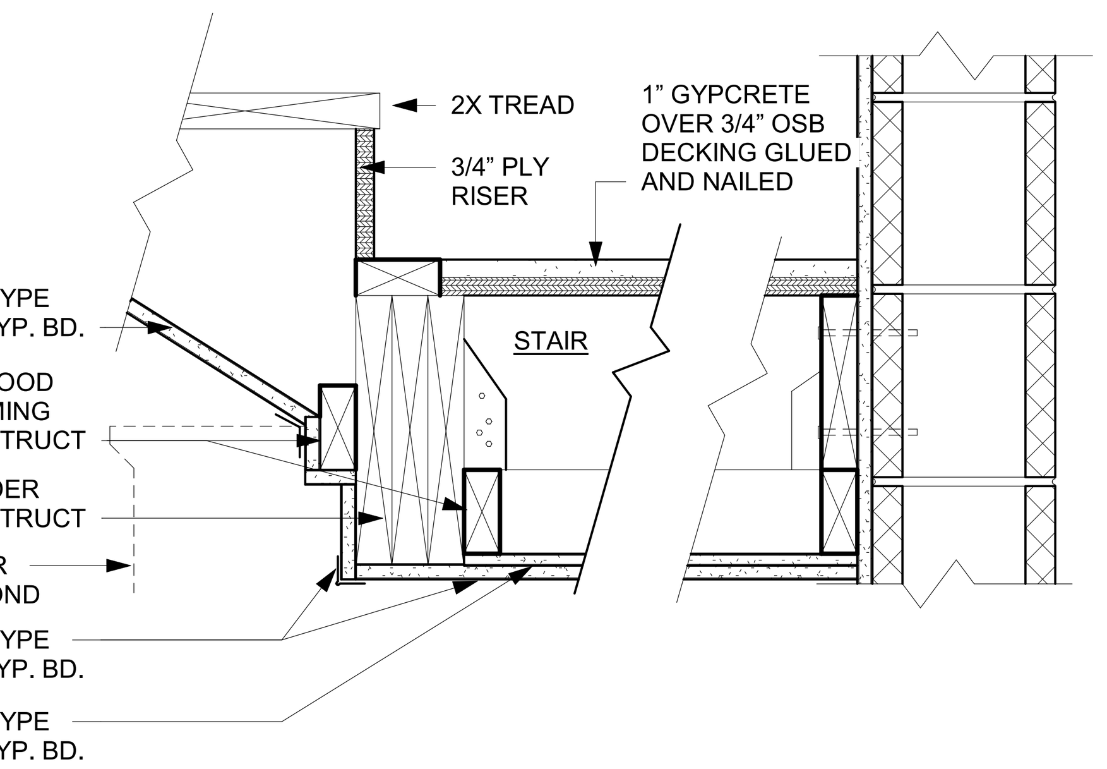
R8	**WOOD PARALLEL CHORD TRUSS - 1HR - TPO** • TPO ROOFING, PER SPECIFICATION TO MEET IECC • 1/2" COVERBOARD, NON-COMBUSTIBLE, WATER-RESISTANT • TAPERED INSULATION, SLOPE PER PLAN • 15/32" MIN. ROOF SHEATHING, SEE NOTE b. • WOOD TRUSS FRAMING PER STRUCT. DWGS, MAX SPACING 24" OC - REFERENCE UL FOR CONSTRUCTION • R-38 INSULATION PER IECC, INSTALLED PER UL • VAPOR BARRIER CLASS 1 ON UNDERSIDE OF TRUSS, AS REQUIRED • 25 MSG GALVANIZED STEEL RESILIENT CHANNELS, SPACED PER UL • (1) LAYER OF 5/8" TYPE 'AG-C' GWB, BY AMERICAN GYPSUM CO, PER UL
R11	**WOOD FLAT 2X8 LUMBER - 1HR - TPO** • TPO ROOFING MEMBRANE PER SPECIFICATIONS TO MEET IECC • 1/2" COVERBOARD, NON-COMBUSTIBLE, WATER-RESISTANT • TAPERED INSULATION, SLOPE PER PLAN • R-20 RIGID INSULATION MIN. (OR NECESSARY TO MEET MIN. IECC REQUIREMENT) • VAPOR BARRIER CLASS 1, SELF ADHERED TO SHEATHING, AS REQUIRED • SHEATHING PER STRUCTURAL DWGS. • WOOD 2X8 FRAMING SPACED PER STRUCTURAL • R-19 BATT INSULATION • (2) LAYERS OF 5/8" TYPE 'X' GWB. PER GA ASSEMBLY
R12	**WOOD FLAT 2X6 LUMBER - 1HR - TOP OF ELEVATOR** • TPO ROOFING MEMBRANE PER SPECIFICATIONS TO MEET IECC • 1/2" COVERBOARD, NON-COMBUSTIBLE, WATER-RESISTANT • TAPERED INSULATION, SLOPE PER PLAN • R-20 RIGID INSULATION MIN. (OR NECESSARY TO MEET MIN. IECC REQUIREMENT) • VAPOR BARRIER CLASS 1, SELF ADHERED TO SHEATHING, AS REQUIRED • SHEATHING PER STRUCTURAL DWGS. • WOOD 2X6 FRAMING SPACED PER STRUCTURAL • R-19 BATT INSULATION • (2) LAYERS OF 5/8" TYPE 'X' GWB. PER GA ASSEMBLY



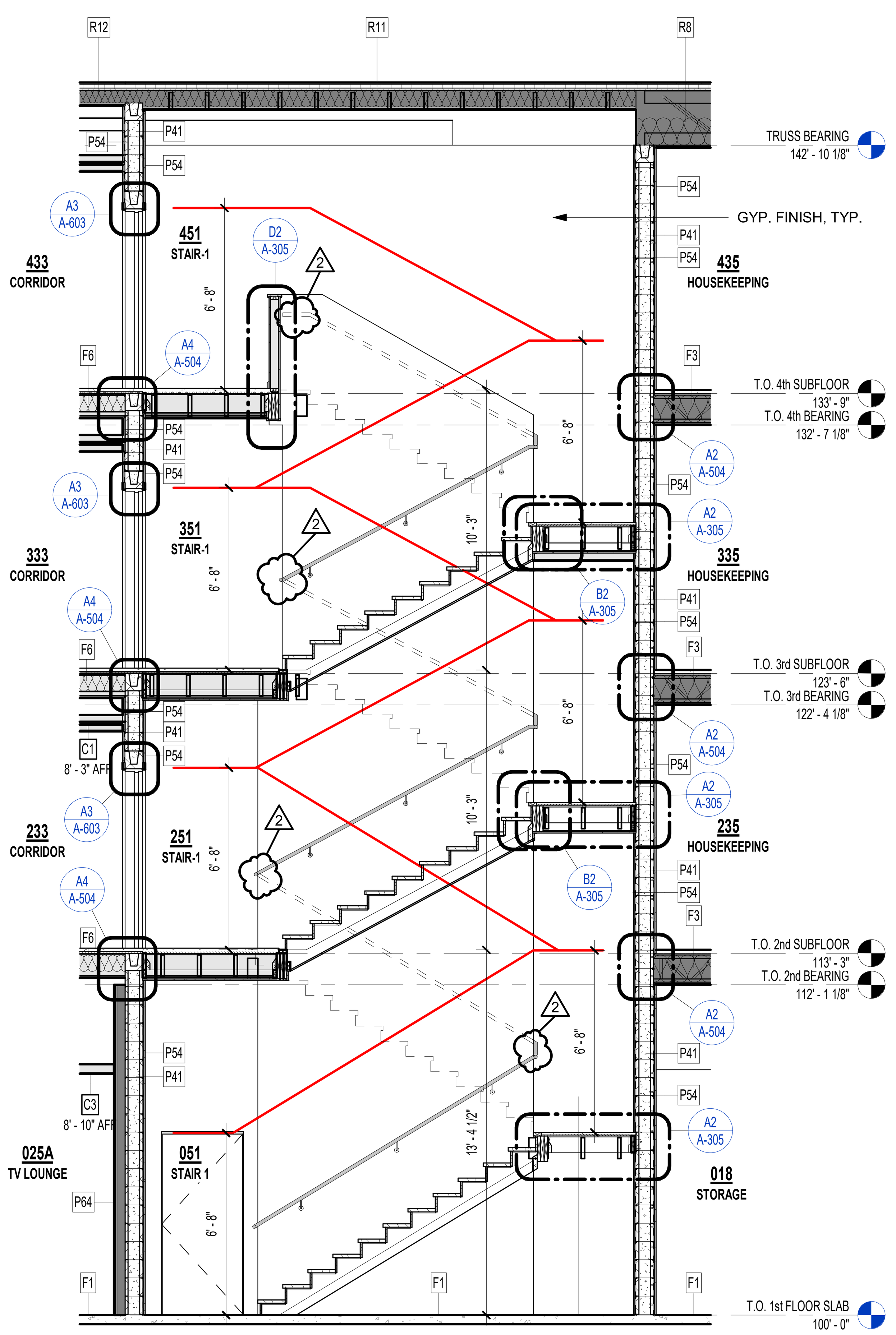
D2 WOOD STAIR KNEE WALL
1 1/2" = 1'-0"



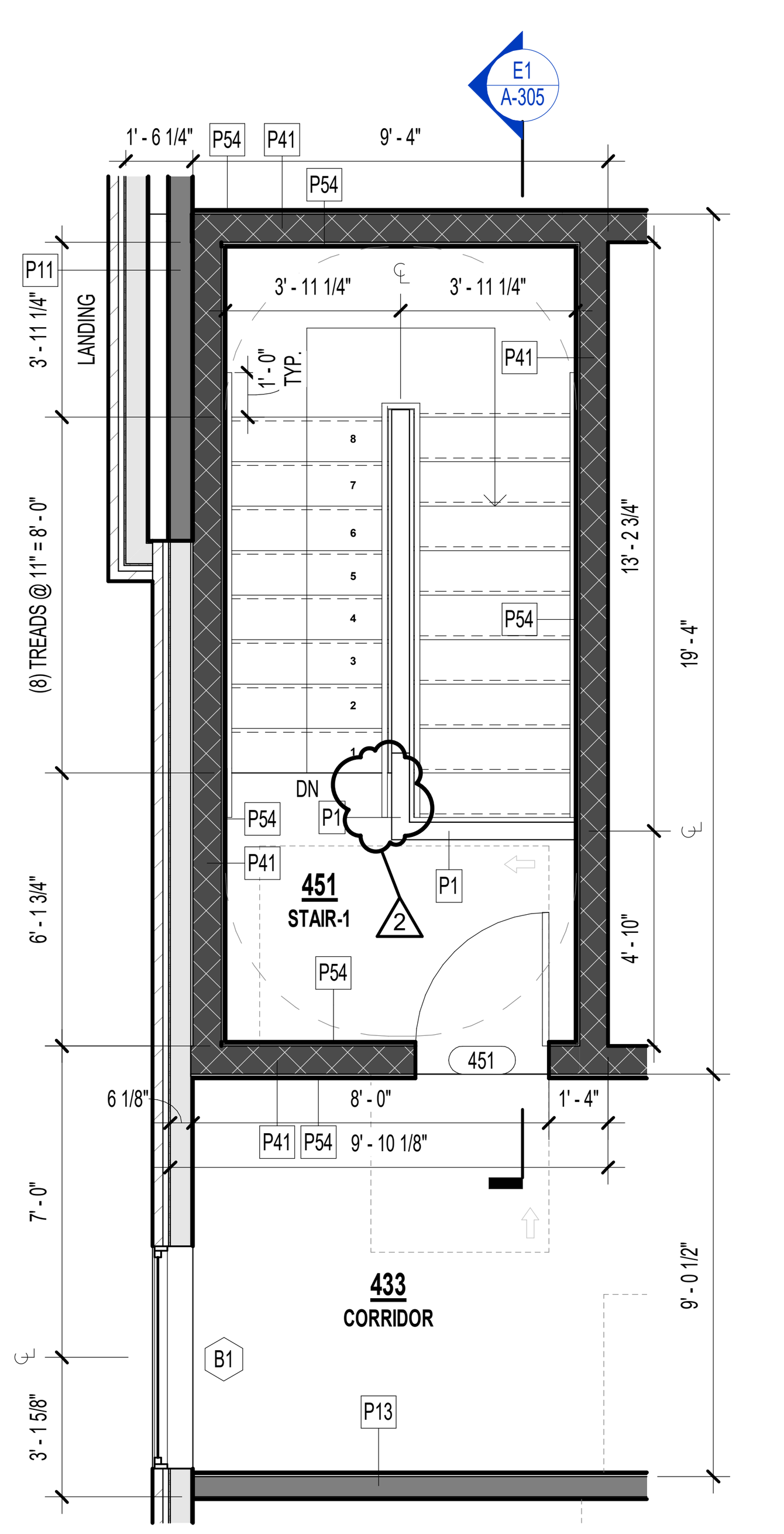
B2 WOOD STAIR AT TOP LANDING
1 1/2" = 1'-0"



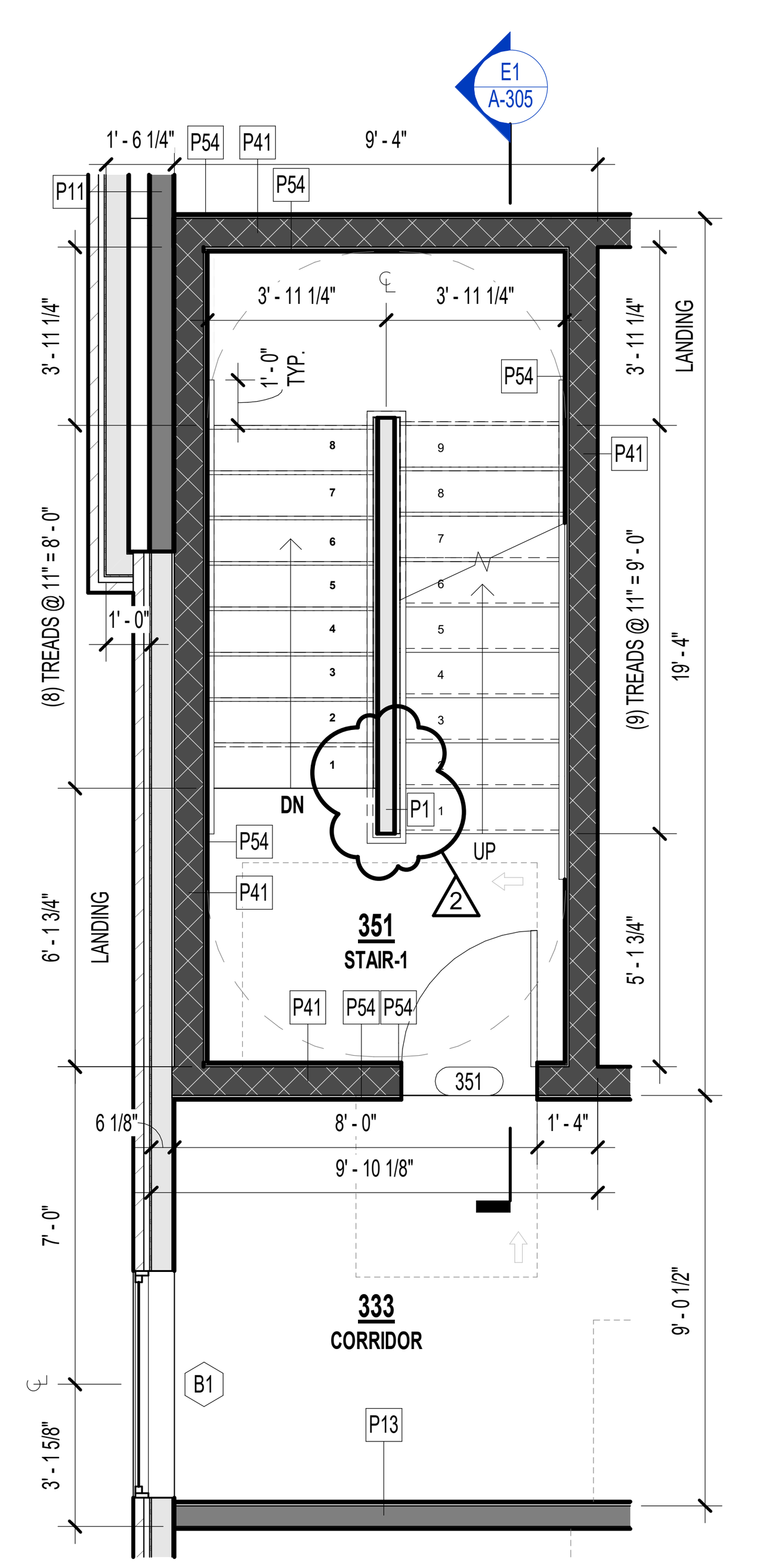
A2 STAIR PLATFORM DTL.
1 1/2" = 1'-0"



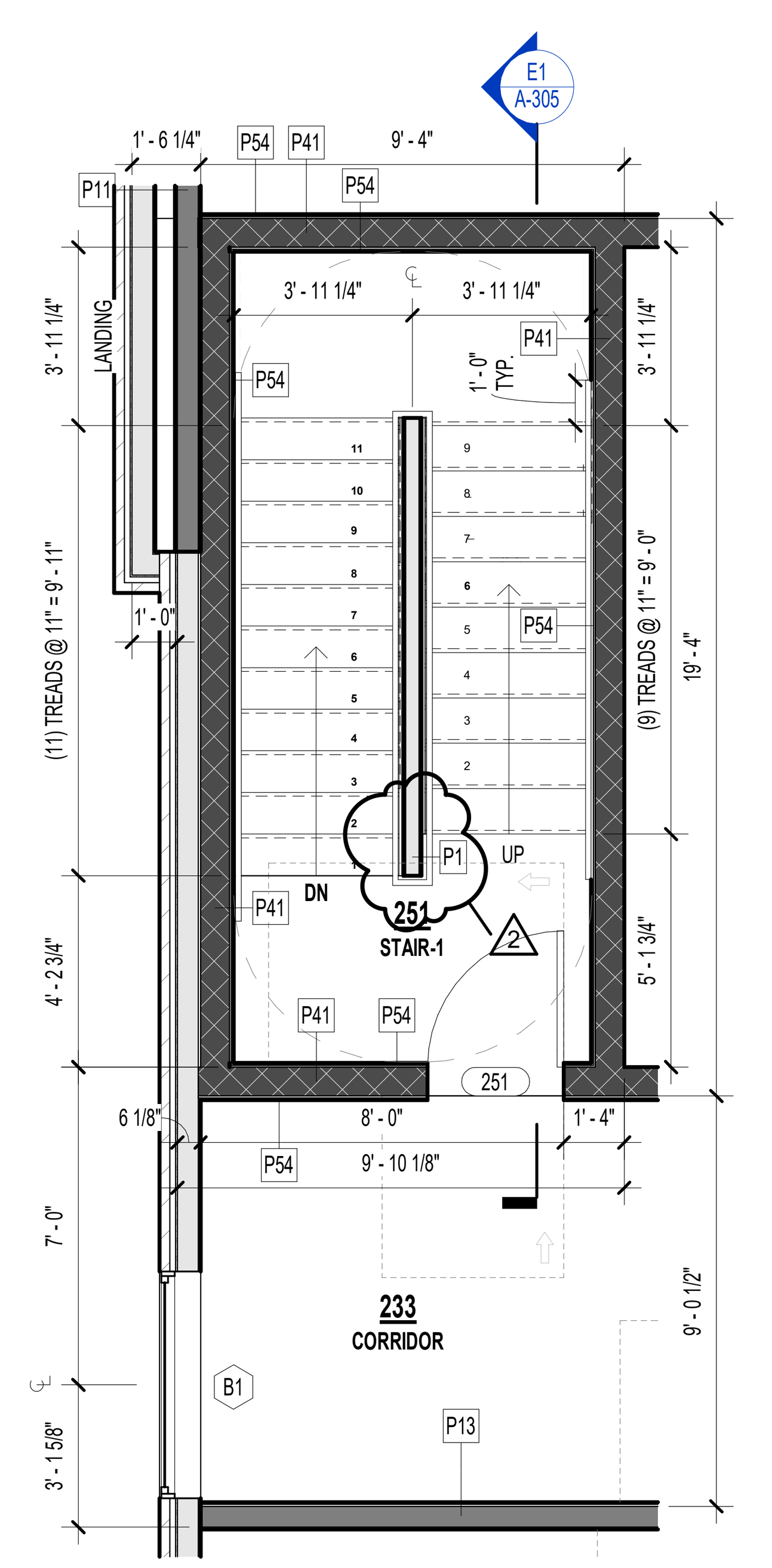
E1 STAIR 1 SECTION
1/4" = 1'-0"



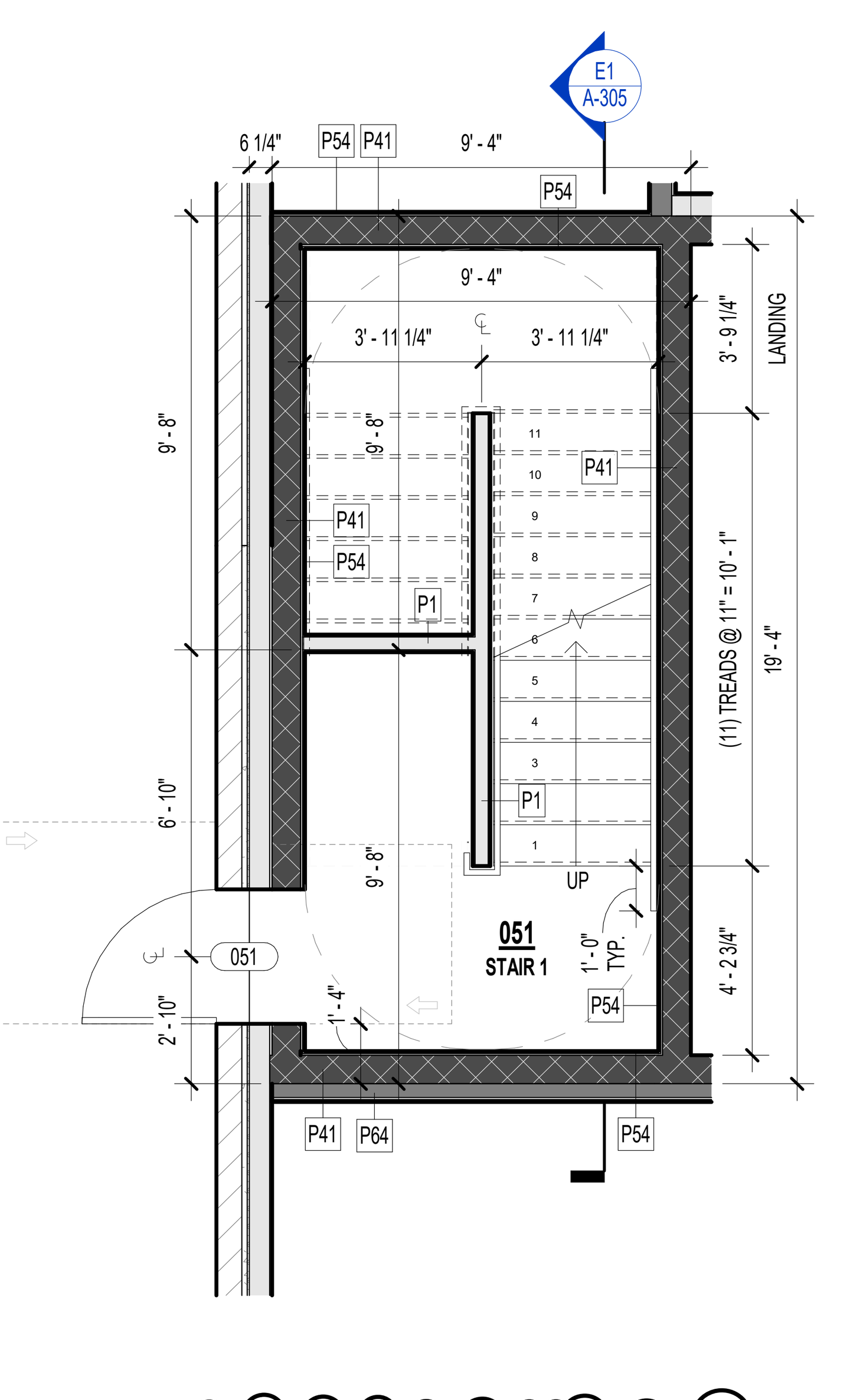
D1 4TH FLOOR PLAN - ENLARGED STAIR 1
1/4" = 1'-0"



C1 3RD FLOOR PLAN - ENLARGED STAIR 1
1/4" = 1'-0"



B1 2ND FLOOR PLAN - ENLARGED STAIR 1
1/4" = 1'-0"



ALL HANDRAILS AT DIVIDER WALL TO BE CONTINUOUS.
ALL HANDRAIL EXTENSIONS TO COMPLY WITH I.B.C. 1014.6.

A1 1ST FLOOR PLAN - ENLARGED STAIR 1
1/4" = 1'-0"

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STATE OF MISSOURI
DAVID EUGENE HENDRIKSE
NUMBER A-7305
REGISTERED ARCHITECT
06/14/2024

HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
STAIR #1 SECTION & DETAILS

PROJECT NUMBER: 22023

SHEET NUMBER:

A-305

REFERENCE G-003 FOR GENERAL NOTES

INTERIOR PARTITION ASSEMBLIES - WOOD - NON RATED

P1	**WOOD 2X4 STUD - NON-RATED PARTITION - INTERIOR** • (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD • 2x4 WOOD STUDS SPACED 16" O.C. • (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD

INTERIOR PARTITION ASSEMBLIES - WOOD - 1 HR RATED

P13	**WOOD 2X6 STUD - 1HR PARTITION - INTERIOR SOUND DAMPENING** • (1) LAYER 5/8" TYPE "X" GYPSUM BOARD • 25 MSG GALVANIZED STEEL RESILIENT CHANNEL, 24" O.C. • 2x6 WOOD STUDS SPACED 16" O.C. MAX. OR PER STRUCT. DWGS. • 5-1/2" FRICTION FIT UNFACED BATT INSULATION IN STUD CAVITY • (1) LAYER 5/8" TYPE "X" GYPSUM BOARD

INTERIOR BARRIER ASSEMBLIES - WOOD - 2 HR RATED

P23	**WOOD 2X6 STUD - 2HR BARRIER - INTERIOR** • (2) LAYERS 5/8" TYPE "X" GYPSUM BOARD • 25 MSG GALVANIZED RESILIENT CHANNEL, 24" O.C. • 2x6 WOOD STUDS SPACED 16" O.C. MAX OR PER STRUCT. DWGS. • 5-1/2" FRICTION FIT BATT INSULATION IN STUD CAVITY • (2) LAYERS 5/8" TYPE "X" GYPSUM BOARD

EXTERIOR PARTITION ASSEMBLIES - WOOD - NON RATED

P36	**WOOD 2x6 STUD - NON-RATED EXTERIOR** *EXTERIOR* • EXTERIOR FINISH SYSTEM PER ELEVATIONS • WEATHER RESISTANT BARRIER, PER SPECIFICATIONS • (1) LAYER SHEATHING PER STRUCT. DWGS. • 2x6 WOOD STUDS SPACED 16" O.C. MAX OR PER STRUCT. DWGS. • (1) LAYER 5/8" TYPE "X" GYPSUM BOARD *INTERIOR*

INTERIOR PARTITION ASSEMBLIES (METAL-NON-RATED)

P54	**METAL 1/2" FURRING / HAT CHANNEL - NON-RATED FURRING - INTERIOR** • (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD • 1/2" FURRING / HAT CHANNEL, SPACED 16" O.C. (GAUGE DETERMINED BY WALL HEIGHT)

INTERIOR PARTITION ASSEMBLIES (METAL-2 HR RATED)

P75	**METAL 2 1/2" C-H STUD - 2HR RATED SHAFT - INTERIOR** *EXTERIOR SHAFT* • (2) LAYERS 5/8" TYPE 'X' GYPSUM BOARD PER UL • 2-1/2" C-H STUDS SPACED 24" O.C. • (1) LAYER 1" SHAFT WALL LINER *INTERIOR SHAFT*

INTERIOR ASSEMBLIES - CMU / CONCRETE

P41	**CMU 8" BLOCK - 2HR FIRE BARRIER - INTERIOR** • 8" CMU (REINFORCING PER STRUCT)

EXTERIOR ASSEMBLIES - CMU / CONCRETE

P45	**CMU 8" BLOCK - NON-RATED - EXTERIOR (AT STAIRS)** *EXTERIOR* • EXTERIOR FINISH SYSTEM PER ELEVATIONS - BRICK SHOWN • WEATHER RESISTANT BARRIER PER SPECIFICATIONS • R VALUE PER IECC AS INDICATED ON DRAWINGS / SPECIFICATIONS • (1) LAYER SHEATHING PER STRUCT. DRAWINGS • 8" CMU (REINFORCING PER STRUCT) • RESILIENT CHANNEL • (1) LAYER 5/8" TYPE "X" GYPSUM BOARD *INTERIOR*

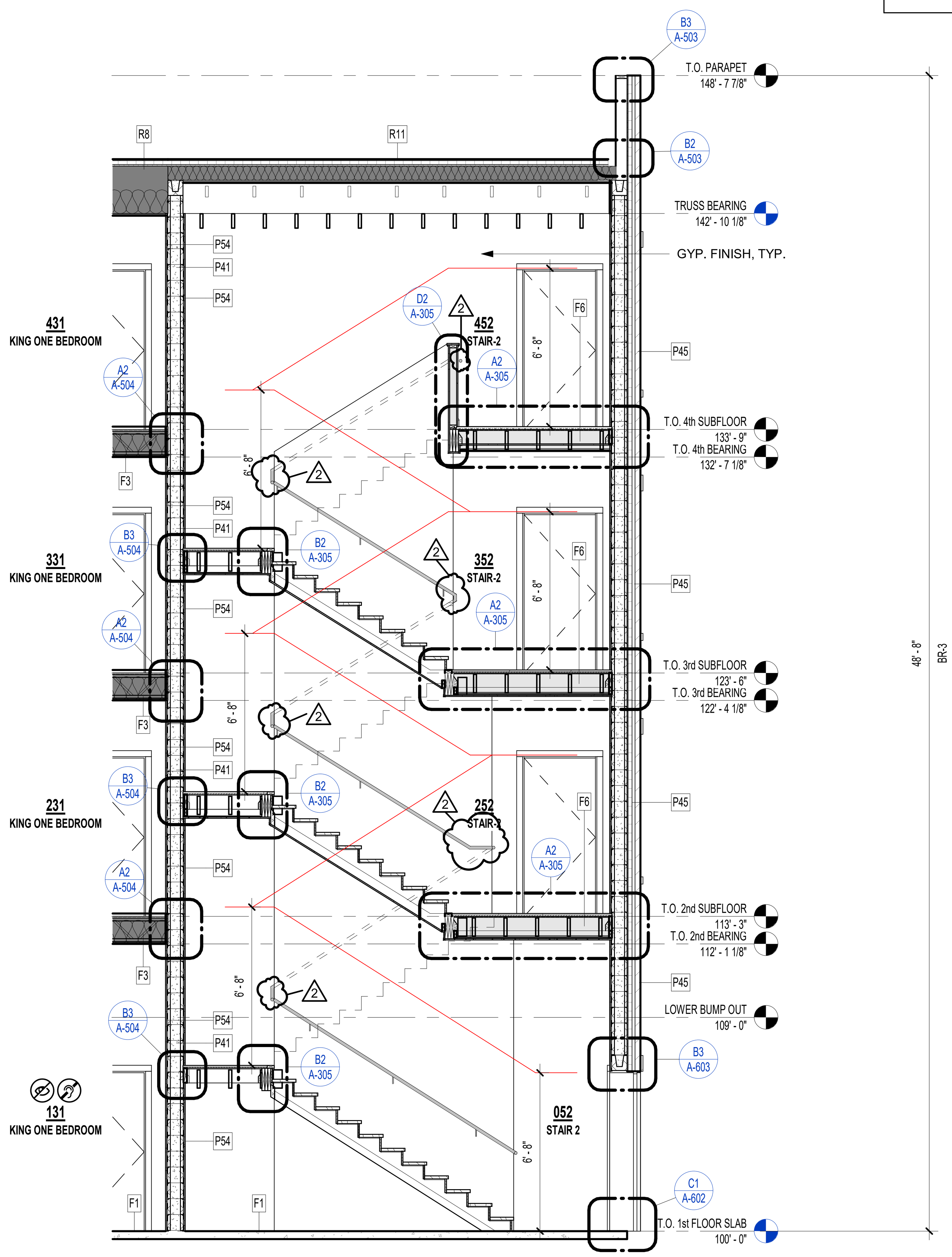
FLOOR/CEILING ASSEMBLY-WOOD

F1	**CONCRETE - NON-RATED - SLAB ON GRADE** • CONCRETE SLAB ON GRADE PER STRUCT. DWGS.
F3	**WOOD OPEN WEB TRUSS - 1HR** • 1-1/2" GYPCRETE TOPPING • 3/4" MIN. PLYWOOD SHEATHING, TYPE 'C/D' , SEE ALSO NOTE b. • WOOD TRUSSES PER STRUCTURAL, REFER TO UL FOR MIN. REQS • UNFACED FIBERGLASS INSULATION COMPLETELY FILLED IN CONCEALED CAVITY TO COMPLY WITH NFPA 13 CONCEALED SPACES. • 25 MSG GALVANIZED RESILIENT CHANNELS, SPACED PER U.L. • (1) LAYER OF 5/8" TYPE 'C' GWB PER UL
F7	**WOOD 2X8 LUMBER - 1HR - CORRIDOR** • 1-1/2" GYPCRETE TOPPING • 3/4" SHEATHING MIN, SEE NOTE b. • 2X8 WOOD JOISTS SPACED PER STRUCTURAL • UNFACED FIBERGLASS INSULATION COMPLETELY FILLED IN CONCEALED CAVITY TO COMPLY WITH NFPA 13 CONCEALED SPACES. • (2) LAYERS OF 5/8" TYPE 'X' GWB PER IBC

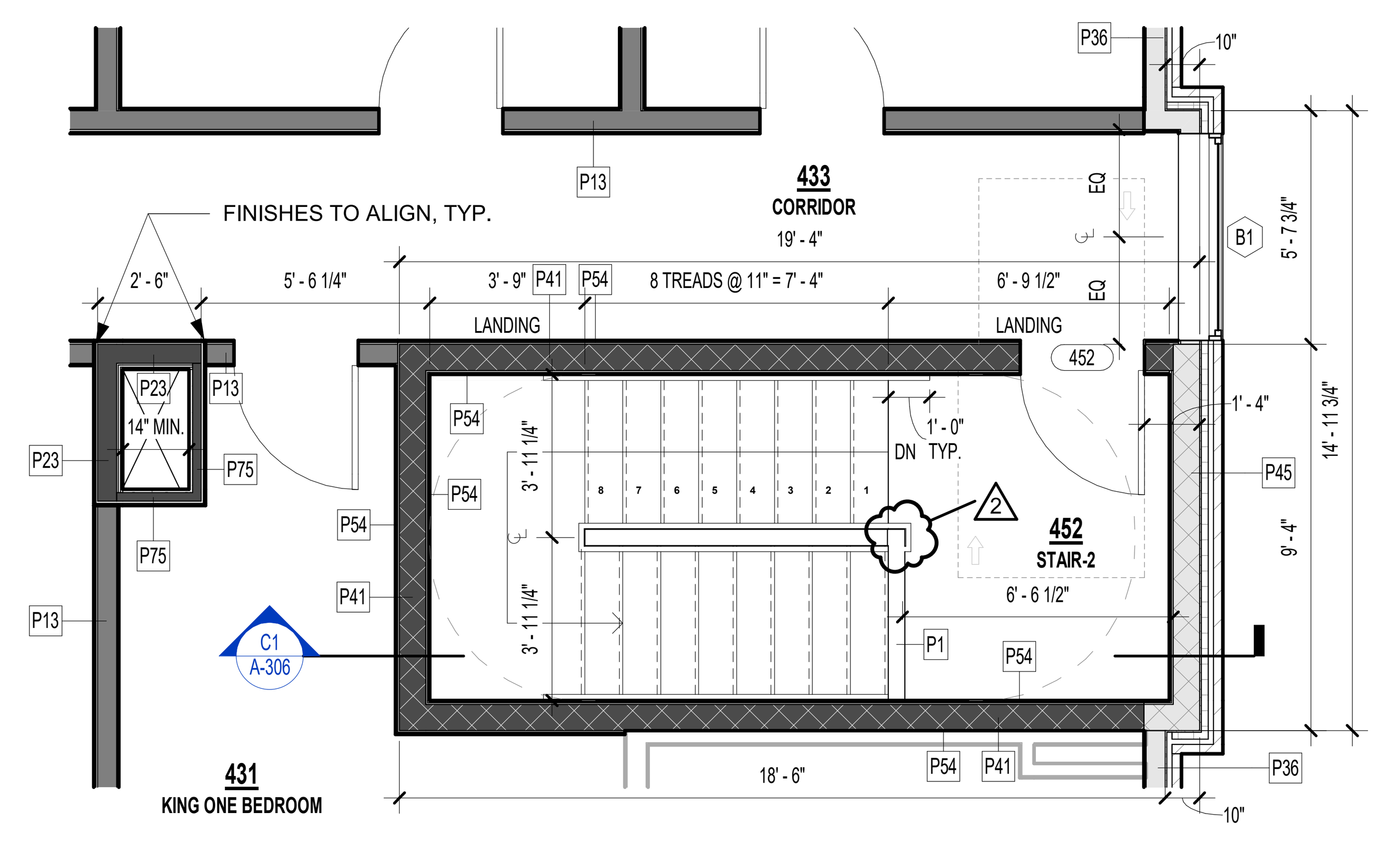
ROOF/CEILING ASSEMBLY-WOOD

R8	**WOOD PARALLEL CHORD TRUSS - 1HR - TPO** • TPO ROOFING, PER SPECIFICATION TO MEET IECC • 1/2" COVERBOARD, NON-COMBUSTIBLE, WATER-RESISTANT • TAPERED INSULATION, SLOPE PER PLAN • 15/32" MIN. ROOF SHEATHING, SEE NOTE b. • WOOD TRUSS FRAMING PER STRUCT. DWGS, MAX SPACING 24" OC - REFERENCE UL FOR CONSTRUCTION • R-38 INSULATION PER IECC, INSTALLED PER UL • VAPOR BARRIER CLASS 1 ON UNDERSIDE OF TRUSS, AS REQUIRED • 25 MSG GALVANIZED STEEL RESILIENT CHANNELS, SPACED PER UL • (1) LAYER OF 5/8" TYPE 'AG-C' GWB, BY AMERICAN GYPSUM CO, PER UL
R11	**WOOD FLAT 2X8 LUMBER - 1HR - TPO** • TPO ROOFING MEMBRANE PER SPECIFICATIONS TO MEET IECC • 1/2" COVERBOARD, NON-COMBUSTIBLE, WATER-RESISTANT • TAPERED INSULATION, SLOPE PER PLAN • R-20 RIGID INSULATION MIN. (OR NECESSARY TO MEET MIN. IECC REQUIREMENT) • VAPOR BARRIER CLASS 1, SELF ADHERED TO SHEATHING, AS REQUIRED • SHEATHING PER STRUCTURAL DWGS. • WOOD 2X8 FRAMING SPACED PER STRUCTURAL • R-19 BATT INSULATION • (2) LAYERS OF 5/8" TYPE 'X' GWB. PER GA ASSEMBLY

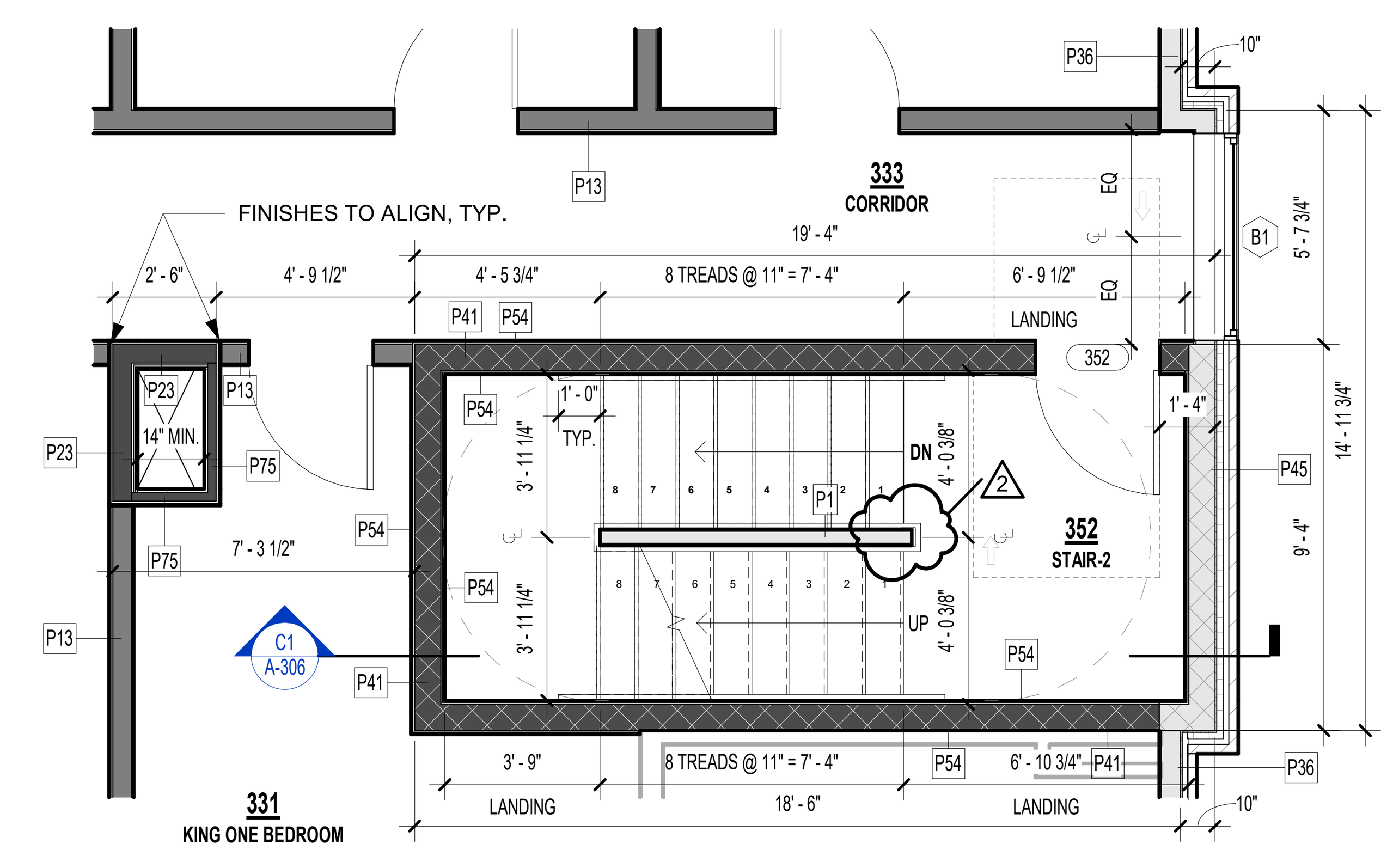
ALL HANDRAILS AT DIVIDER WALL TO BE CONTINUOUS.
ALL HANDRAIL EXTENSIONS TO COMPLY WITH I.B.C. 1014.6. (2)



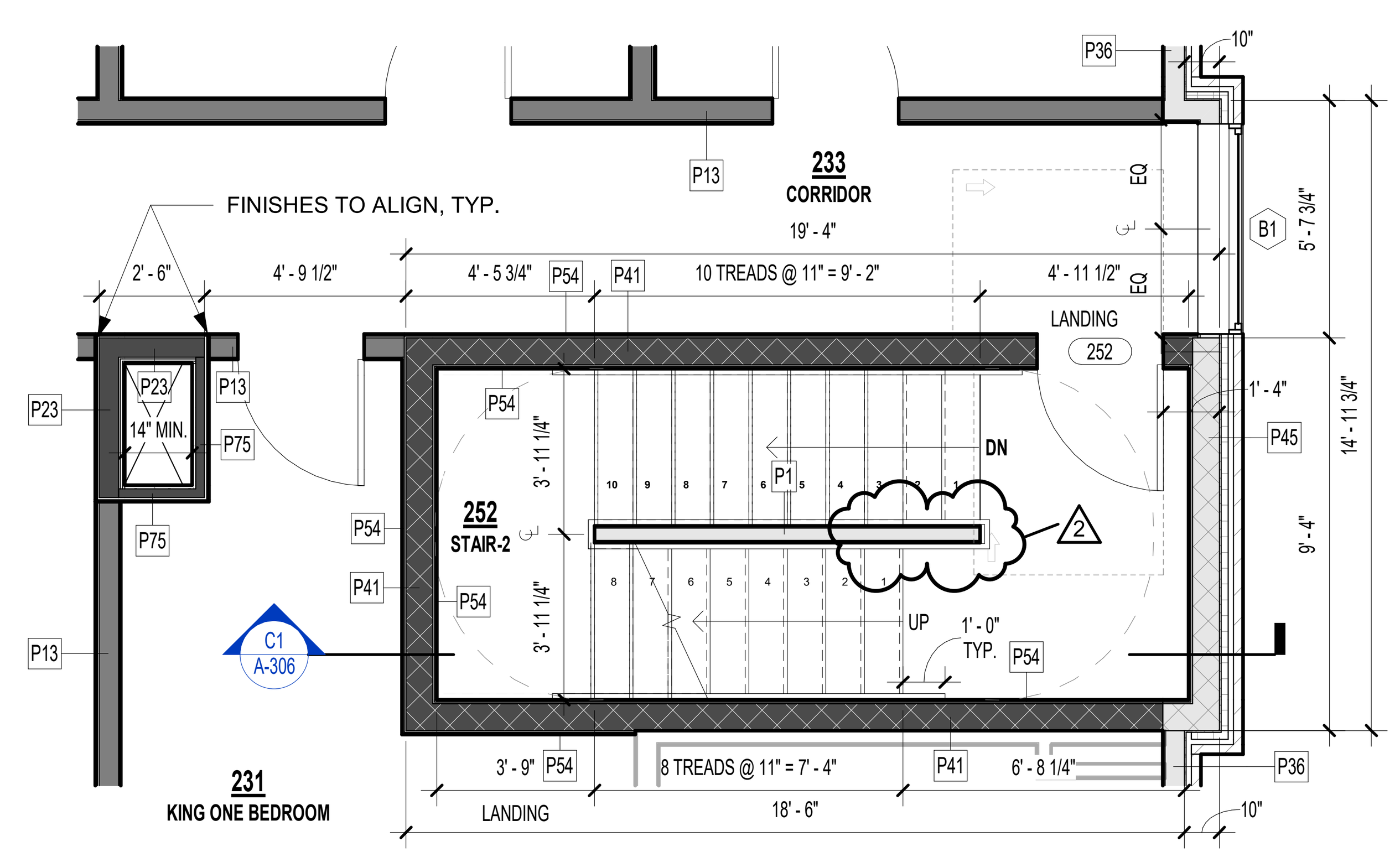
C1 STAIR 2 SECTION
1/4" = 1'-0"



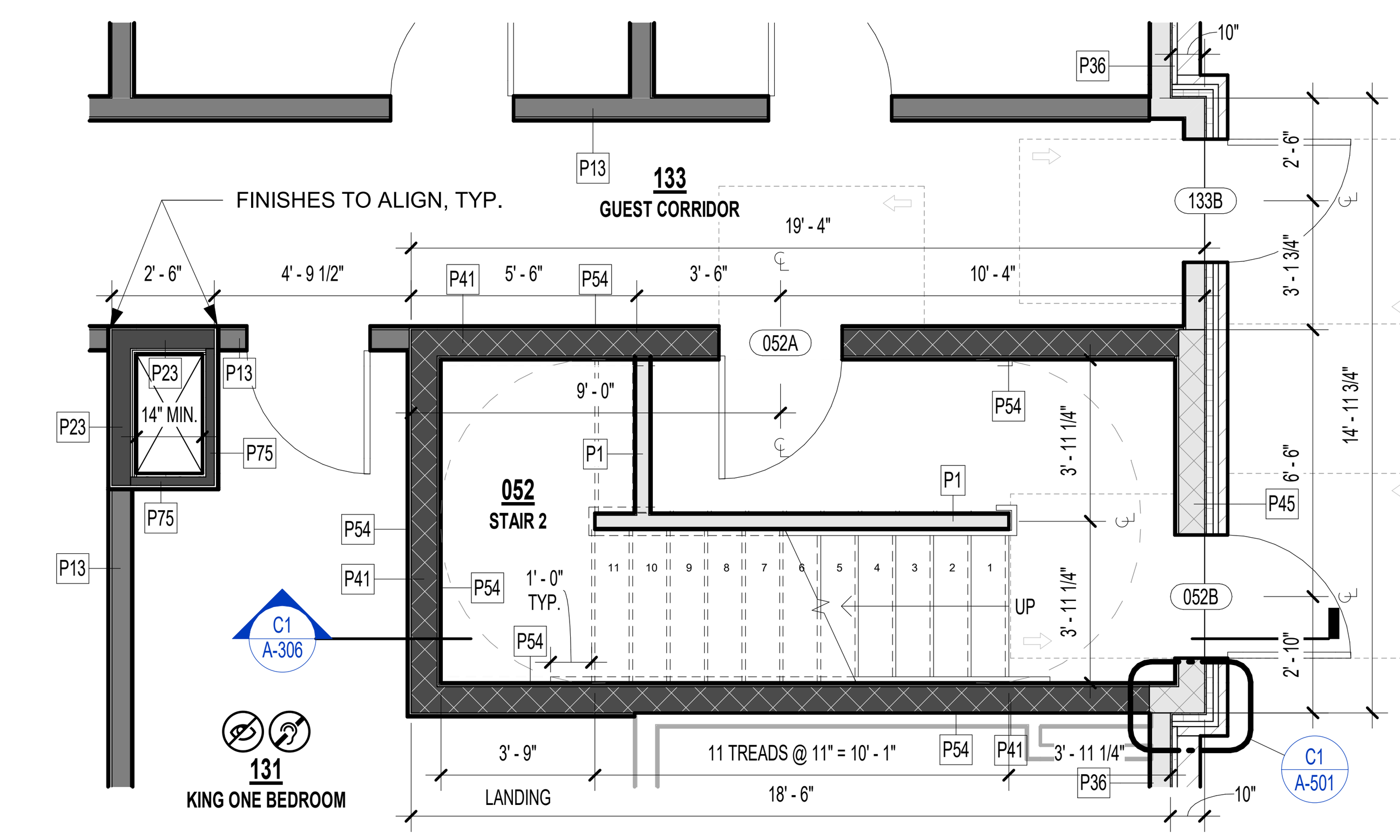
B2 4TH FLOOR PLAN - ENLARGED STAIR 2
1/4" = 1'-0"



A2 3RD FLOOR PLAN - ENLARGED STAIR 2
1/4" = 1'-0"



B1 2ND FLOOR PLAN - ENLARGED STAIR 2
1/4" = 1'-0"



A1 1ST FLOOR PLAN - ENLARGED STAIR 2
1/4" = 1'-0"

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STATE OF MISSOURI DAVID EUGENE HENDRICKSE NUMBER A-7305 REGISTERED ARCHITECT
06/14/2024

HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
STAIR #2 SECTION & DETAILS

PROJECT NUMBER: 22023

SHEET NUMBER:
A-306

REFERENCE G-003 FOR GENERAL NOTES

PLAN LEGEND

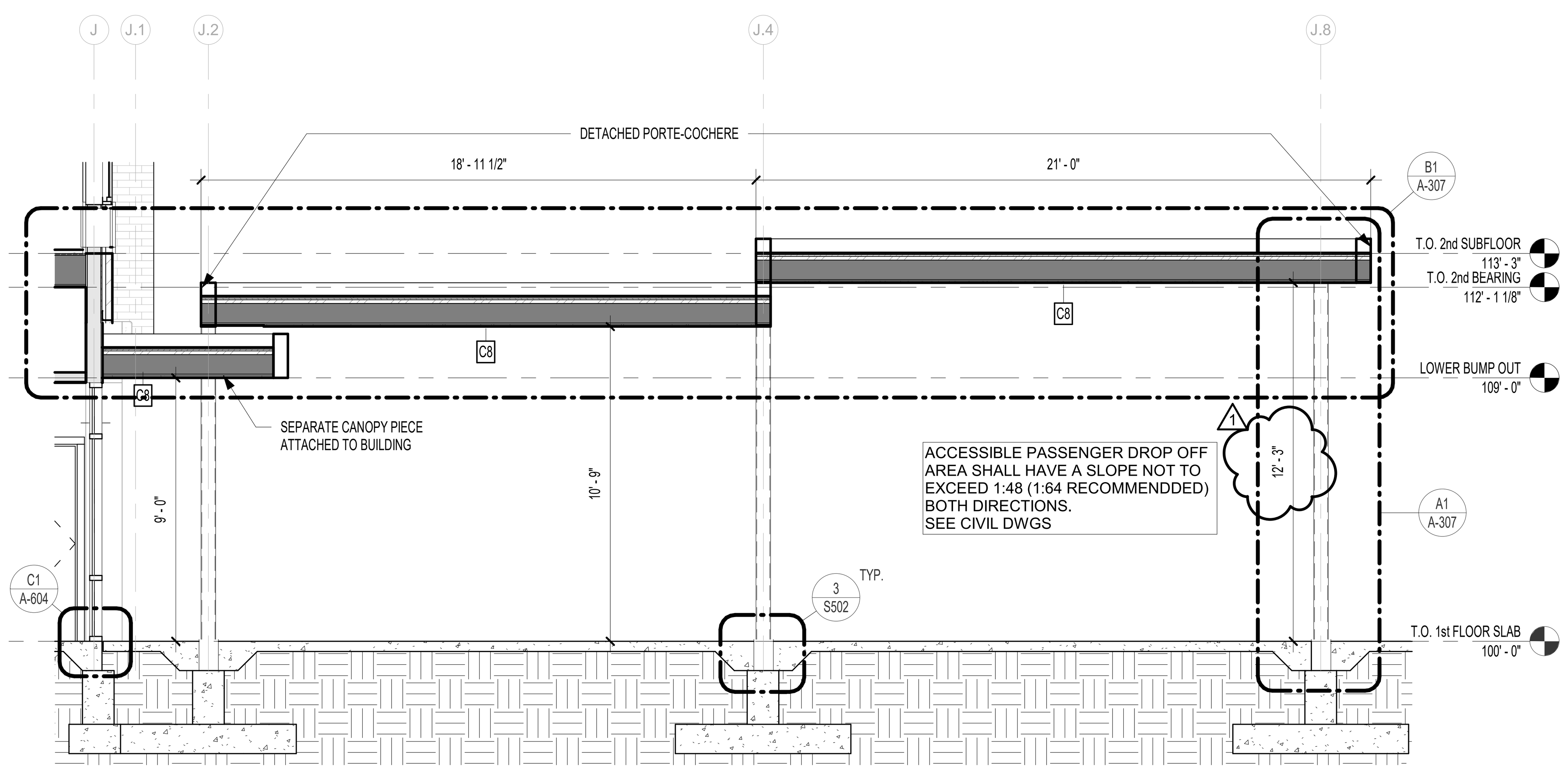
- PARTIAL HEIGHT PARTITION
- NON-RATED PARTITION; SEE ASSEMBLIES G-102
- 1 HR RATED PARTITION; SEE ASSEMBLIES G-102
- 2 HR RATED PARTITION; SEE ASSEMBLIES G-102
- A1 — WINDOW TYPE; SEE WINDOW SCHEDULE A-600
- 101 — DOOR TYPE; SEE DOOR SCHEDULE A-600
- P7 — PARTITION TYPE; SEE ASSEMBLIES G-102
- 6' - 0" — FRAMING DIMENSIONS
- 6' - 0" LAYOUT LAYOUT — LAYOUT LINE DIMENSIONS
- HEARING/VISIBILITY
- ADA/ACCESSIBLE UNITS

*NOTE: SEE ENLARGED PLANS (SHEET A-410) & ENLARGED STAIR & ELEVATOR PLANS (SHEETS A-303 - A-306) FOR ALL DOOR TAGS

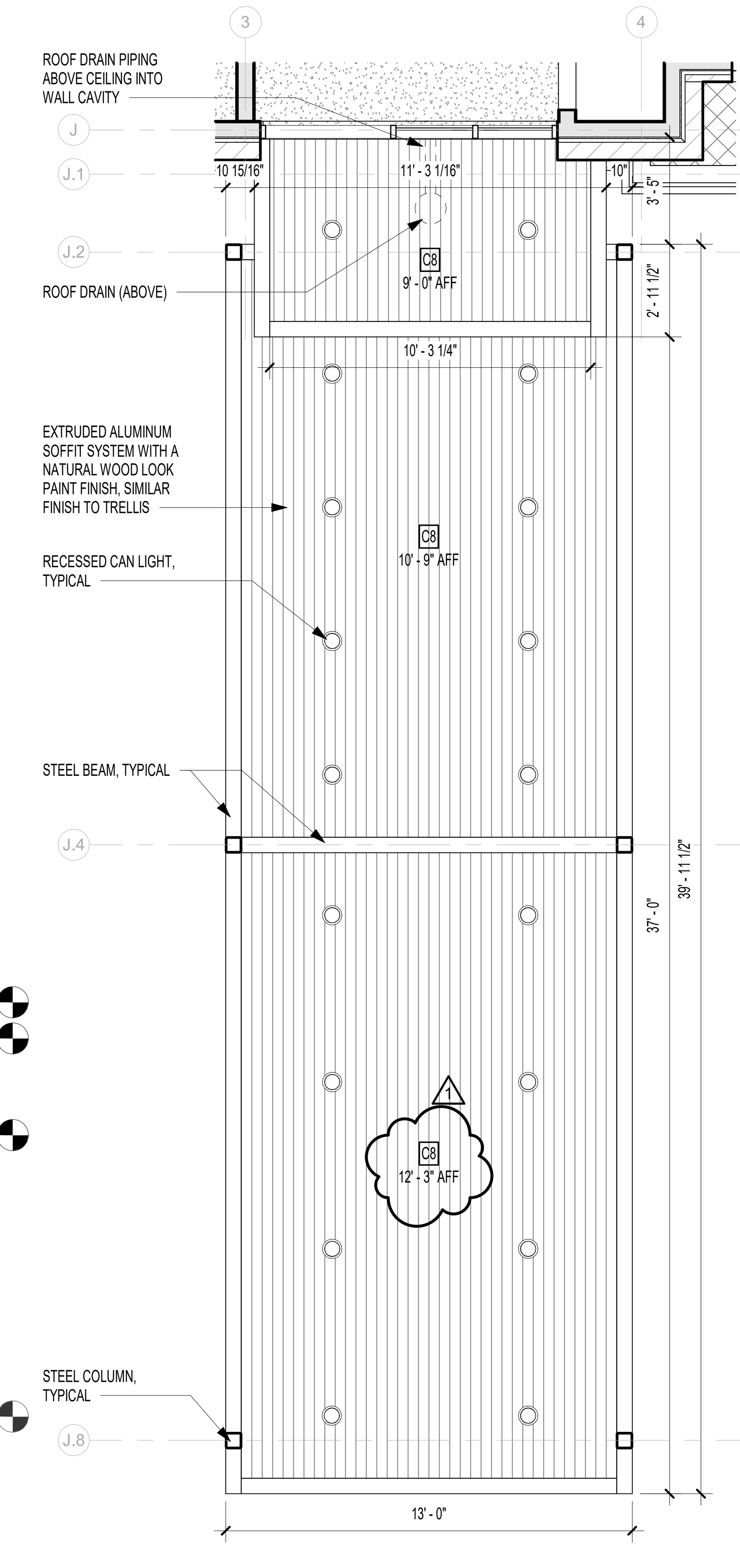
RCP LEGEND

- C1 - 2' X 2' ACT SYSTEM 15/16" THICKNESS- ANGULAR TEGULAR EDGE, PER 095113
- C3 - GWB ON METAL STUD
- C4 - TECTUM CEILING 2' X 2'
- C5 - 6X48 ACT
- C6 - WRAP MATERIAL SOFFIT, PAINT TO MATCH UPPER WALL COLOR
- C8 - EXTRUDED ALUMINUM SOFFIT SYSTEM WITH A WOOD LOOK PAINT
- SUPPLY DIFFUSER
- RETURN GRILL
- LINEAR SUPPLY DIFFUSER
- 9' - 0" AFF — INDICATES CEILING HEIGHT, BELOW MATERIAL TAG

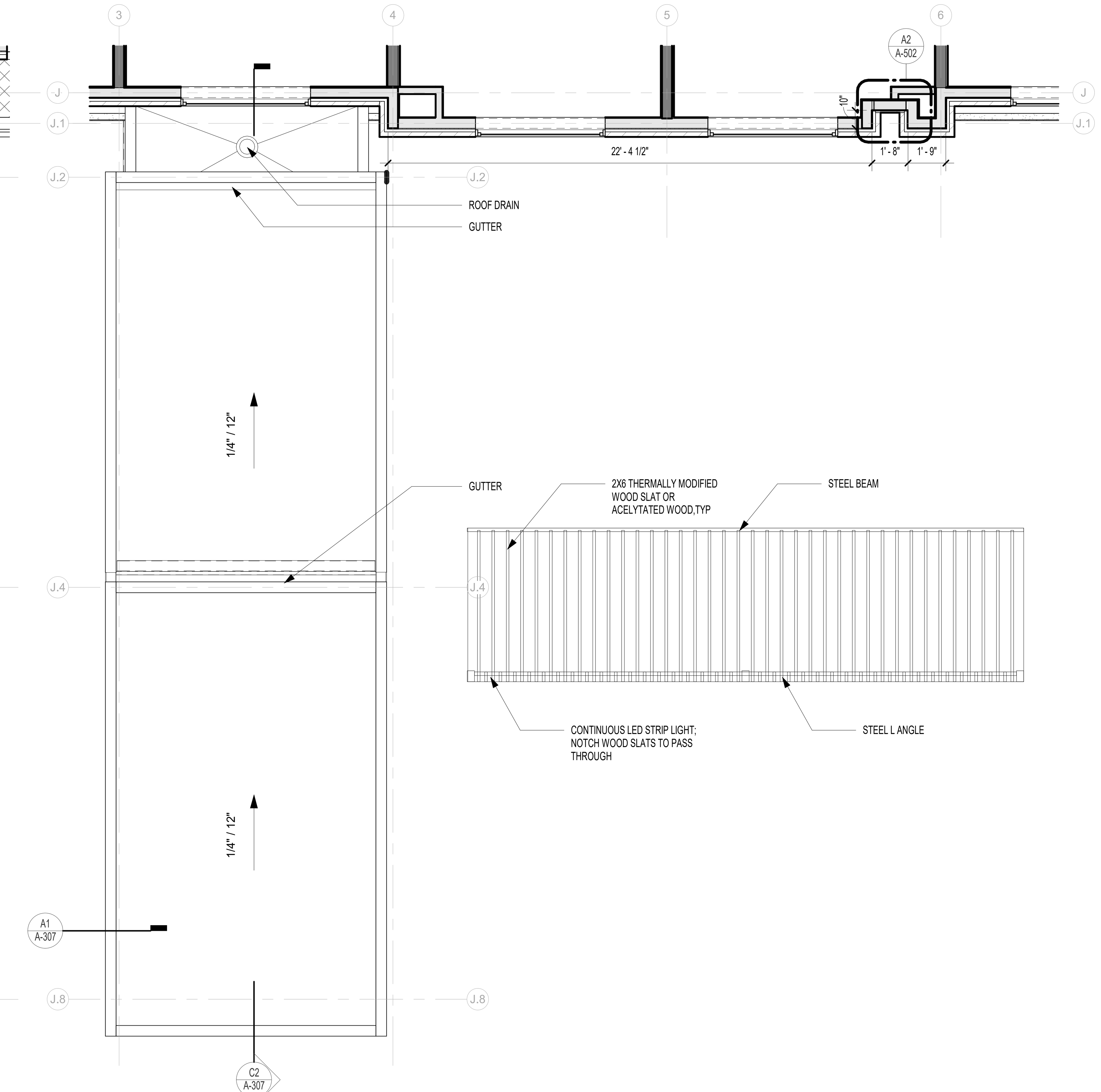
*NOTE: REFER TO ENLARGED GUESTROOM CEILING PLANS (A-400S) FOR ROOM CEILING INFO. - A-400S SHEETS



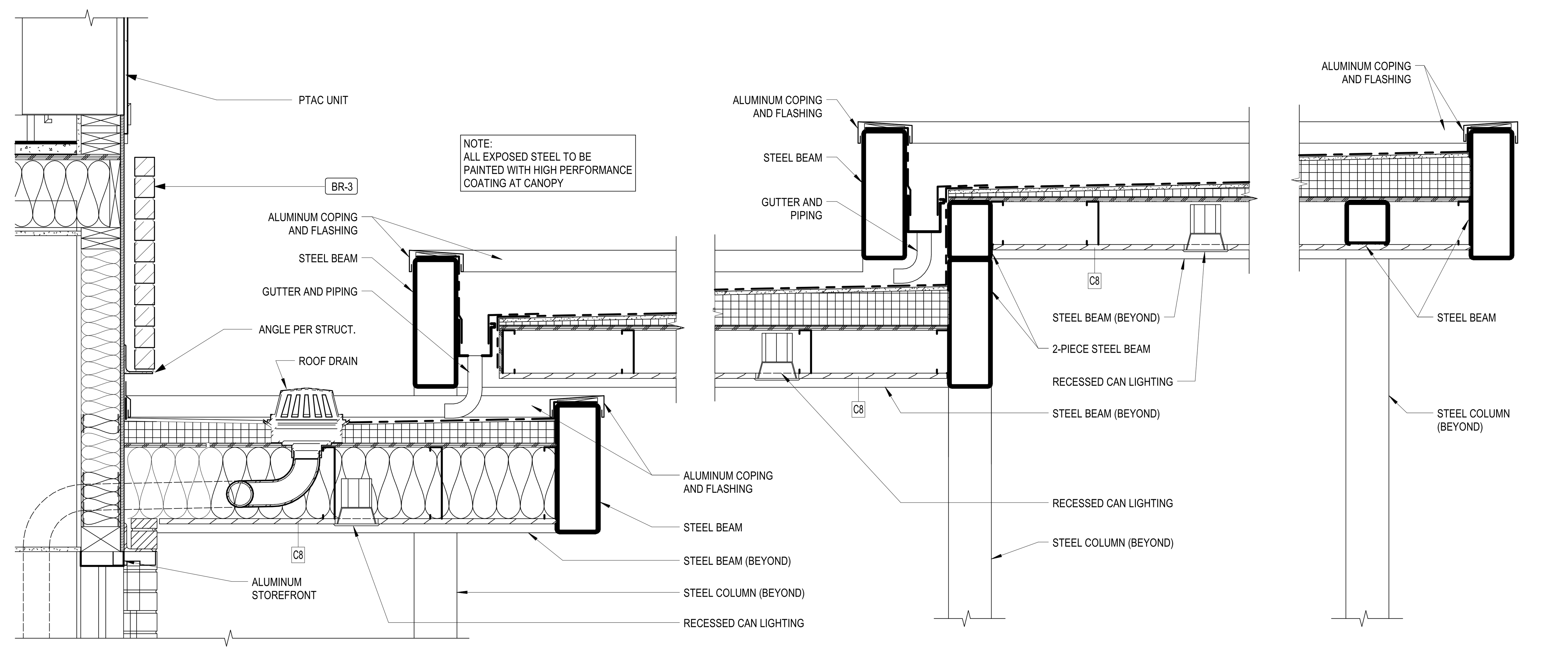
C2 CANOPY SECTION - LONGITUDINAL
1/4" = 1'-0"



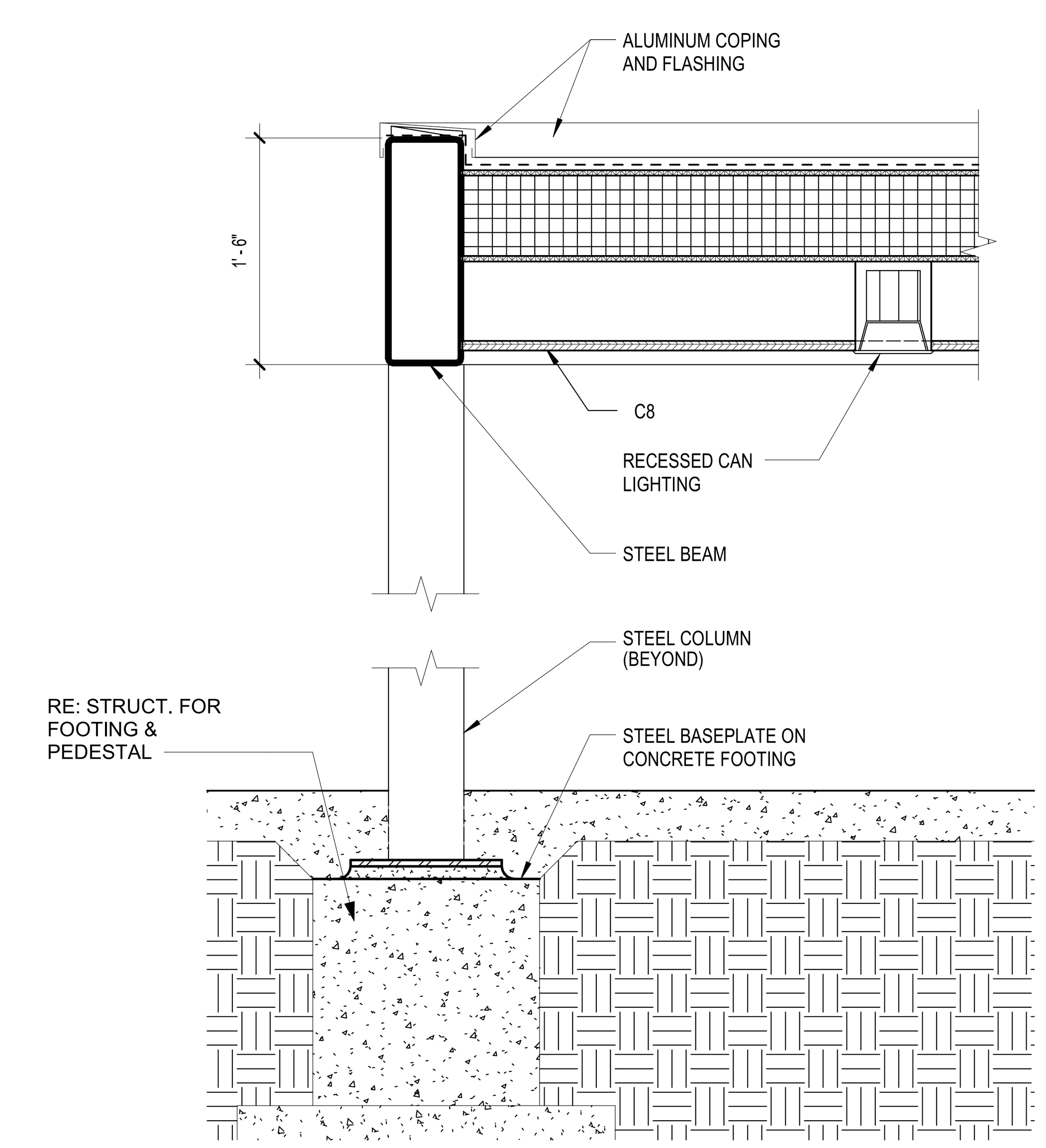
B2 RCP-CANOPY
1/4" = 1'-0"



A2 ENLARGED PLAN - CANOPY AND TRELLIS
1/4" = 1'-0"



B1 CANOPY DETAIL - LONGITUDINAL
1" = 1'-0"



A1 CANOPY DETAIL - SHORT SIDE
1" = 1'-0"

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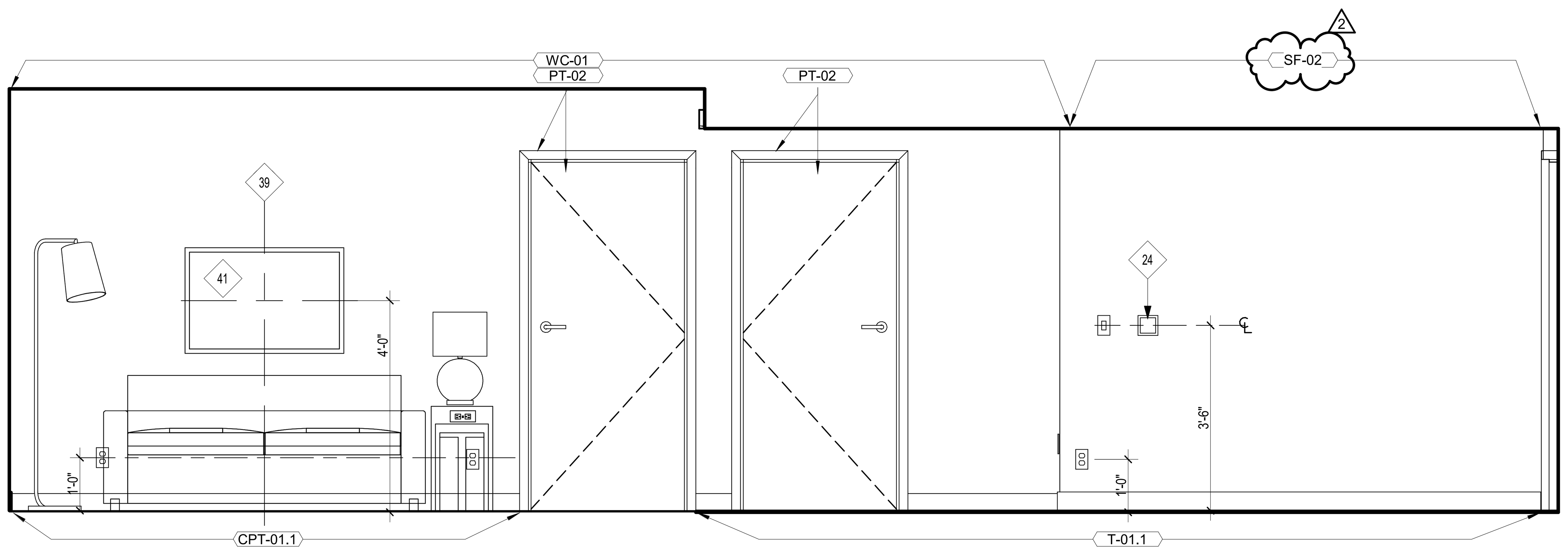
STATE OF MISSOURI
DAVID EUGENE HENDRIX
NUMBER A-7305
REGISTERED ARCHITECT
05/17/2024

HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

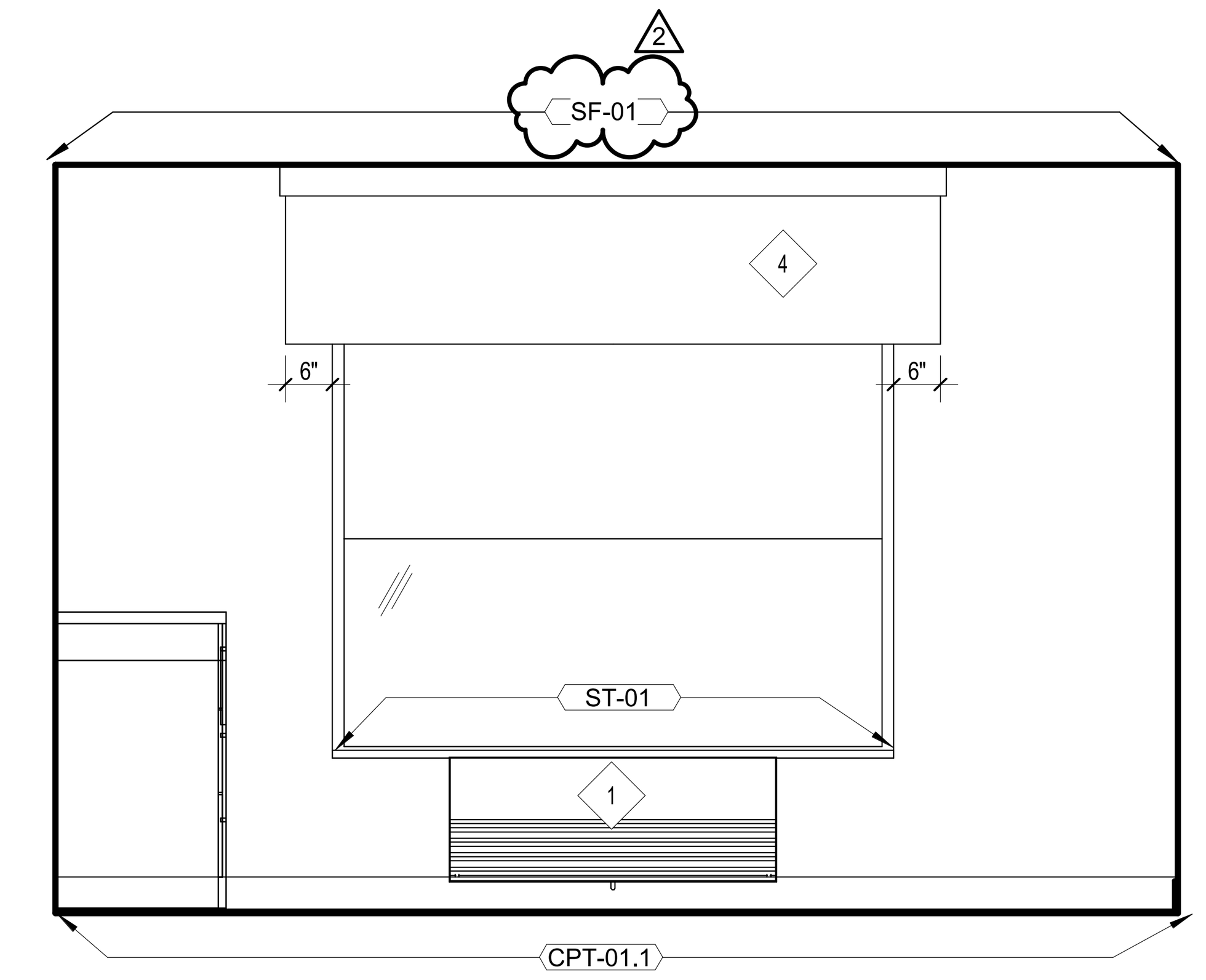
SHEET TITLE
FRONT CANOPY PLAN / ELEV. / SECTION / & DETAILS

PROJECT NUMBER: 22023

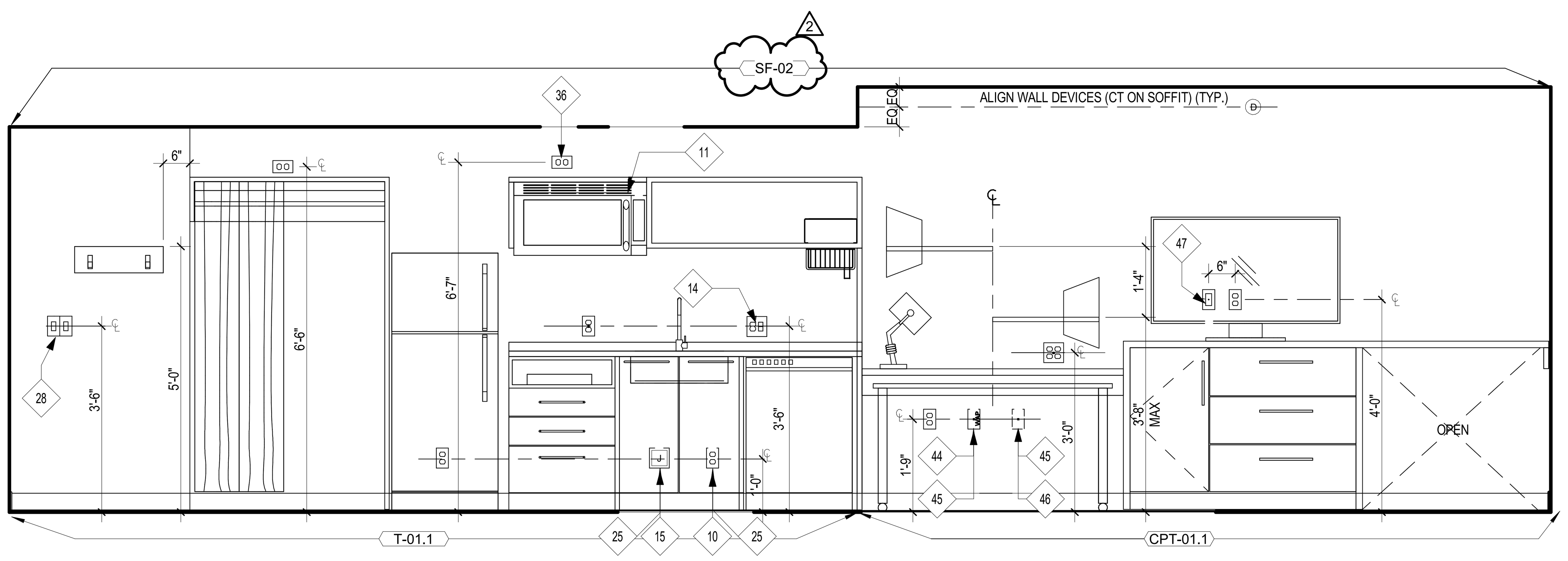
SHEET NUMBER:
A-307



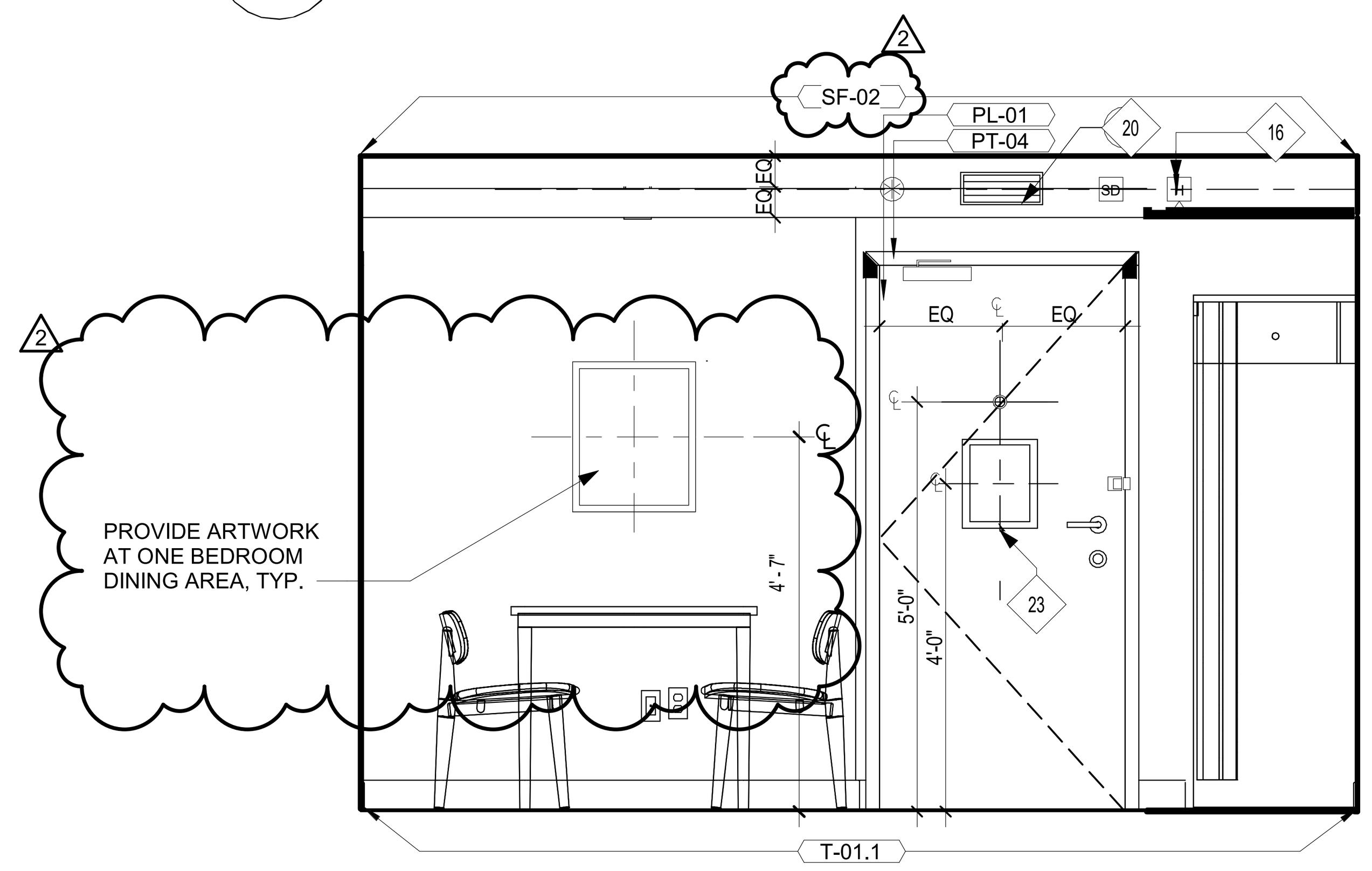
C3 KING ONE BEDROOM - HEADBOARD WALL
1/2" = 1'-0"



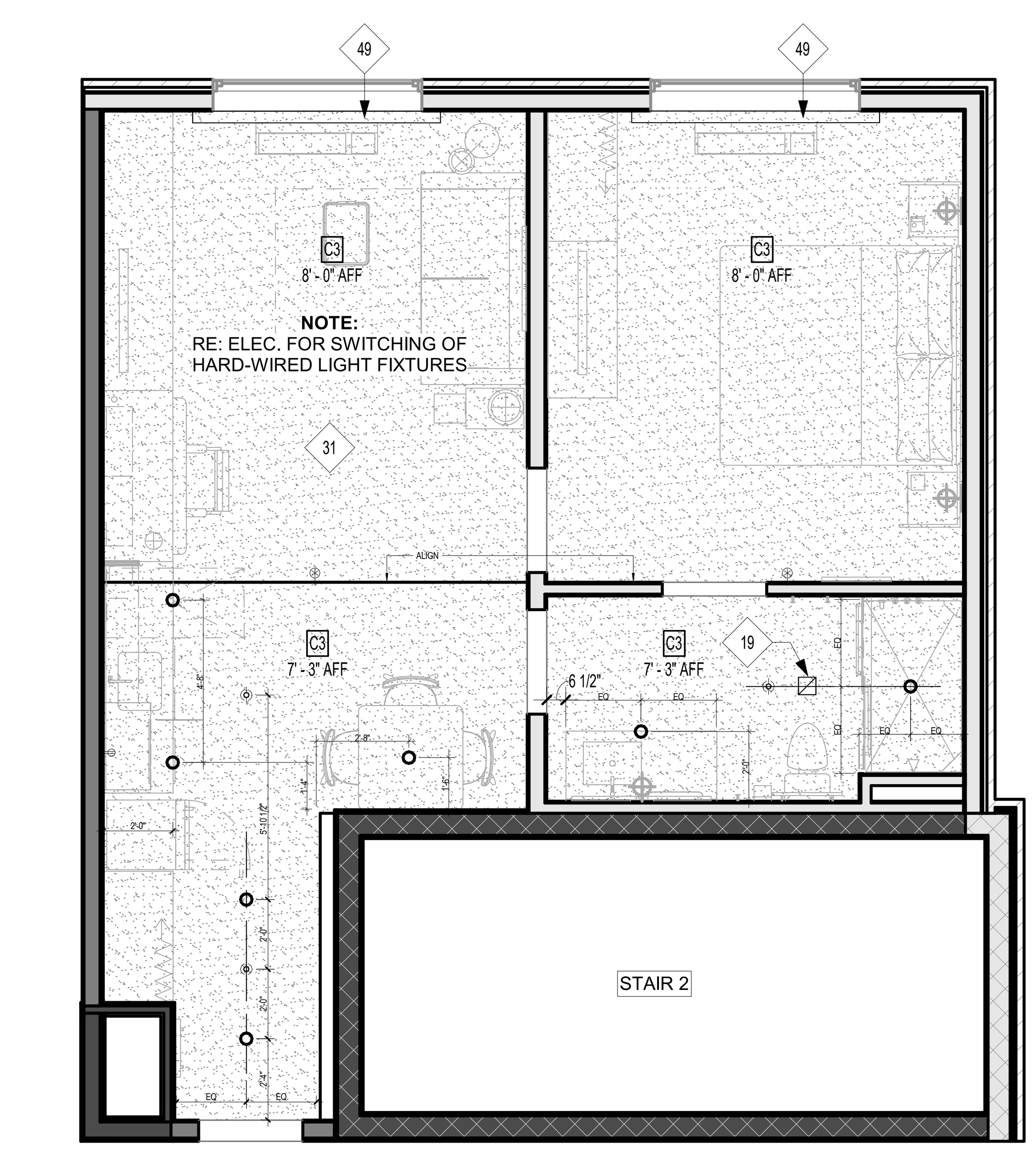
A3 KING ONE BEDROOM - WINDOW NA
1/2" = 1'-0"



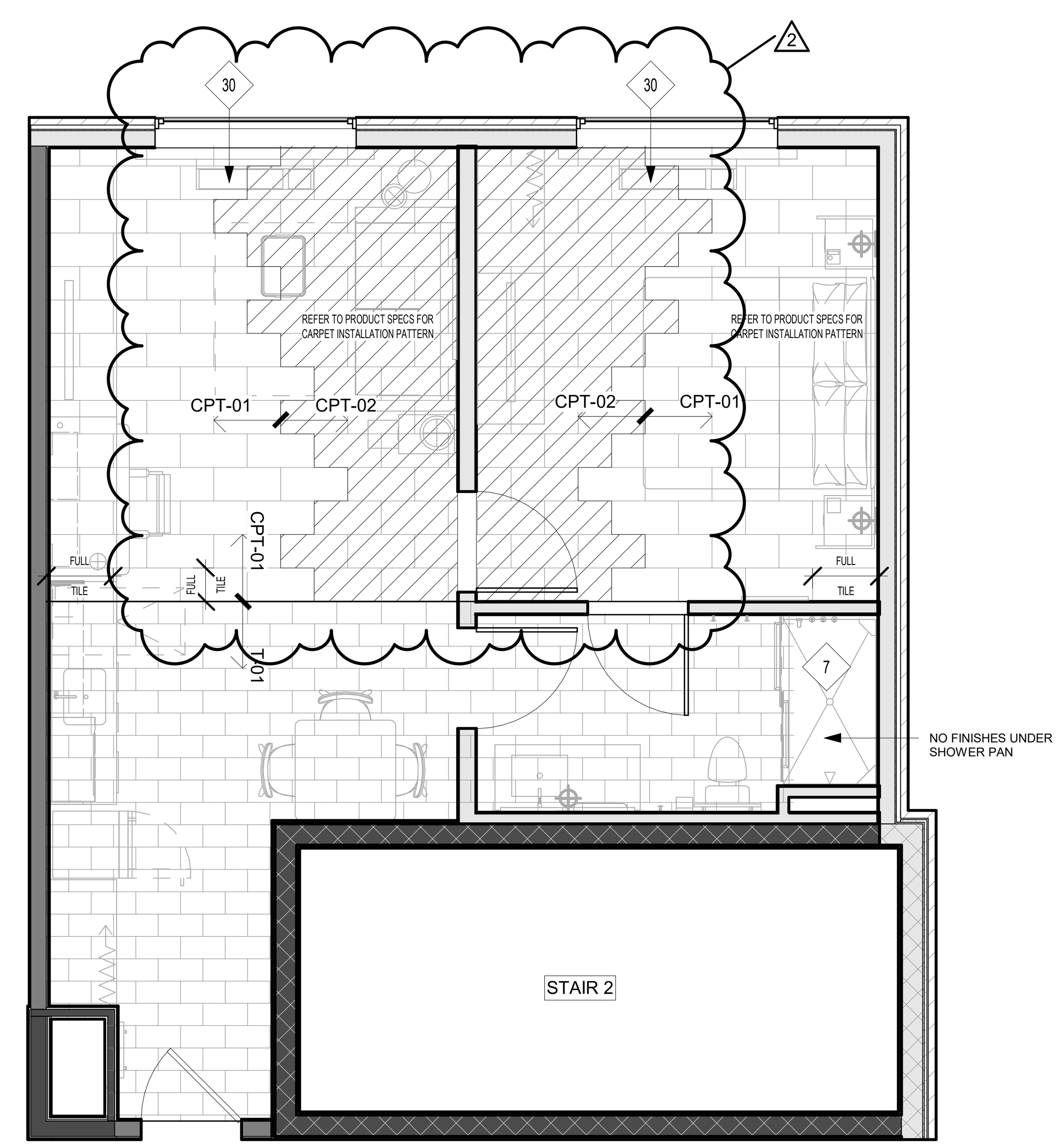
C2 KING ONE BEDROOM - WORKING WALL
1/2" = 1'-0"



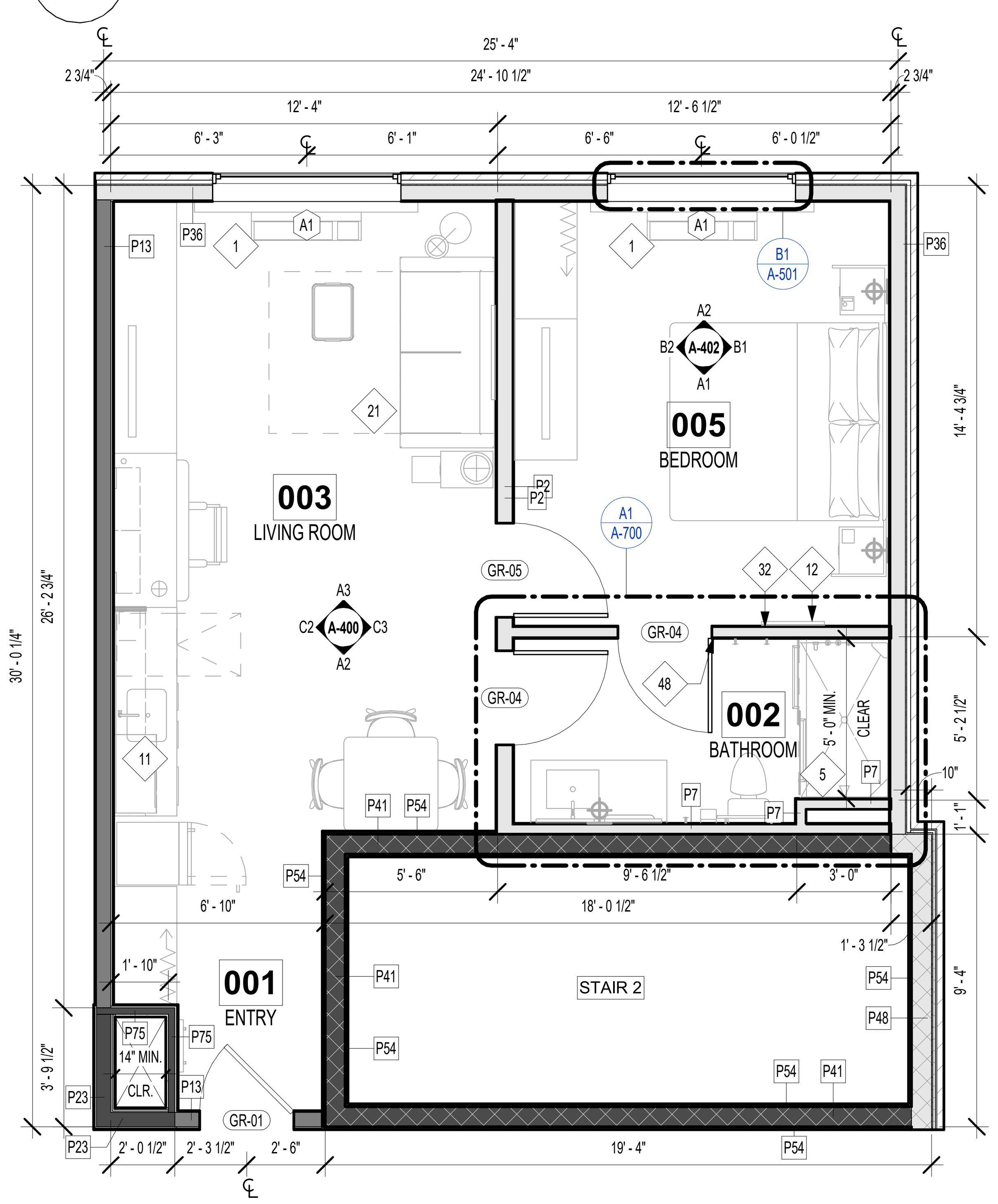
A2 KING ONE BEDROOM - ENTRY
1/2" = 1'-0"



C1 KING ONE BEDROOM SUITE - RCP
1/4" = 1'-0"



B1 KING ONE BEDROOM SUITE - FINISH PLAN
1/4" = 1'-0"



A1 KING ONE BEDROOM SUITE - FLOOR PLAN
1/4" = 1'-0"

REFERENCE G-003 FOR GENERAL NOTES
REFERENCE A-600 FOR DOOR & WINDOW SCHEDULES

UNIT PLAN LEGEND

	PARTIAL HEIGHT PARTITION
	P1 WALL (UNLESS NOTED OTHERWISE); SEE PARTITION SCHEDULE FOR ASSEMBLY INFORMATION
PT-01	FINISH TAG
101	DOOR TAG
	ACCESSIBLE ROUTE (36" CLEAR; 32" MIN REQ'D @ DOOR OPENING PER ANSI A117.1)

UNIT FINISH LEGEND

	CPT-01 -- CARPET TILE
	CPT-02 -- CARPET TILE
	T-01 -- TILE

UNIT RCP LEGEND

	C3 - GWB ON METAL STUD
	RETURN GRILL
9' - 0" AFF	INDICATES CEILING HEIGHT, BELOW MATERIAL TAG

KEYNOTE LEGEND

1	PTAC UNIT
4	MANUAL BLACK OUT ROLLER SHADE TO EXTEND 6" BEYOND WINDOW OPENING; SHEER ROLLER SHADE TO BE MOUNTED INSIDE WINDOW OPENING
5	SHOWER ENCLOSURE W/TEMPERED GLASS DOOR
7	PREMANUFACTURED SHOWER PAN
10	DEDICATED CIRCUIT FOR DISHWASHER
11	RANGE TOP STYLE MICROWAVE AFFIXED TO WALL
12	MIRROR
14	SWITCH CONTROLLING GARBAGE DISPOSAL GANGED WITH DUPLEX - REFER TO HADG FOR ACCESSIBLE ROOM REQUIREMENTS
15	DEDICATED CIRCUIT FOR GARBAGE DISPOSAL
16	FIRE HORN IN STANDARD ROOMS. FIRE HORN/STROBE IN COMMUNICATION FEATURES ROOMS
19	TOILET EXHAUST GRILLE
20	MAKE-UP AIR DIFFUSER
21	EXTENT OF SLEEPER SOFA
23	ROOM SIGNAGE
24	HARD WIRED THERMOSTAT FOR PTAC. MOUNTED 48" MAX TO TOP OF DEVICE. COMMUNICATION BETWEEN THERMOSTAT AND PTAC MAY BE WIRELESS.
25	EXTEND J-BOX, DEVICE & COVER PLATE FLUSH W/ MILLWORK BACK PANEL
28	DOORBELL ON/OF SWITCH (COMMUNICATION FEATURES ROOMS ONLY) SIGNAGE AS REQ'D.
30	EDGE OF PTAC ABOVE CARPET TILES
31	MIN. CEILING HEIGHT MUST BE MAINTAINED - REFER TO HOME 2 SUITES BY HILTON STANDARDS MANUAL
32	FRAMING SUBCONTRACTOR TO PROVIDE 3/4" F.R.T. PLYWOOD BLOCKING TO RECEIVE ITEM INDICATED - EXTEND FULL LENGTH OF OBJECT
36	OUTLET ABOVE FOR MICROWAVE - REFER TO ROOM ELEVATION MOUNT DEVICE HORIZONTALLY--FACE PLATE TO BE WHITE
39	CENTER ARTWORK OVER SOFA
41	GRAPHIC ART. REFER TO ACCESSORIES LEGEND & CONSTRUCTION PLAN
44	WAP IN 3-GANG BOX MOUNTED VERTICALLY UNDER DESK. MAINTAIN 6" BETWEEN ALL BOXES, TYP ALL GUESTROOMS. COORDINATE WAP LOCATION WITH CASEGOODS TO AVOID CONFLICTS. VISIT CONNECTEDROOM.HILTON.COM FOR CURRENT WIRELESS INTERNET REQ'S AND LIST OF APPROVED INTEGRATORS.
45	EACH CABLE MUST HOMERUN BETWEEN THE GUESTROOM AND THE IDF ON EACH FLOOR. VISIT CONNECTEDROOM.HILTON.COM FOR CURRENT REQUIREMENTS AND OPTIONS.
46 (2)	WIRED DATA CONNECTION FOR GUEST USE: PROVIDE CAT6 RJ-45 ABOVE THE DESK (36" AFF), RUN IN SMURF TUBE IN THE WALL TO THE WAP UNDER THE DESK.
47	TV CONNECTIONS FOR FREE-TO-GUEST CONTENT: A) NO SMART TV:COAX CABLE BEHIND TV. CAT6 RJ-45 JACK BEHIND TV, RUN IN SMURF TUBE IN WALL TO WAP UNDER DESK. PATCH CORD TO EDGE CONTROLLER FOR CONNECTED ROOM. MIN. 6" CLEARANCE FROM WALL BOXES - OR - B) SMART TV-INTERNET PROTOCOL TELEVISION (IPTV); COAX NOT REQ'D. CAT6 RJ-45 JACK BEHIND TV RUN IN SMURF TUBE IN WALL TO WAP UNDER DESK. PATCH CORD TO EDGE CONTROLLER FOR CONNECTED ROOM. CAT6 RJ-45 JACK BEHIND TV IN ONE-BEDROOM TV. MIN. 6" CLEARANCE FROM WALL BOXES. VISIT HILTONHDTV.COM FOR ADDITIONAL INFORMATION.
48	PROVIDE HINGE STOP AT DOOR
49	HARDWIRED BLACK OUT ROLLER SHADE WITH NO EXPOSED WIRES

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04/17/2024 - CITY SUBMISSION

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STATE OF MISSOURI
DAVID EUGENE HENDRIKSE
NUMBER A-7305
REGISTERED ARCHITECT
06/14/2024

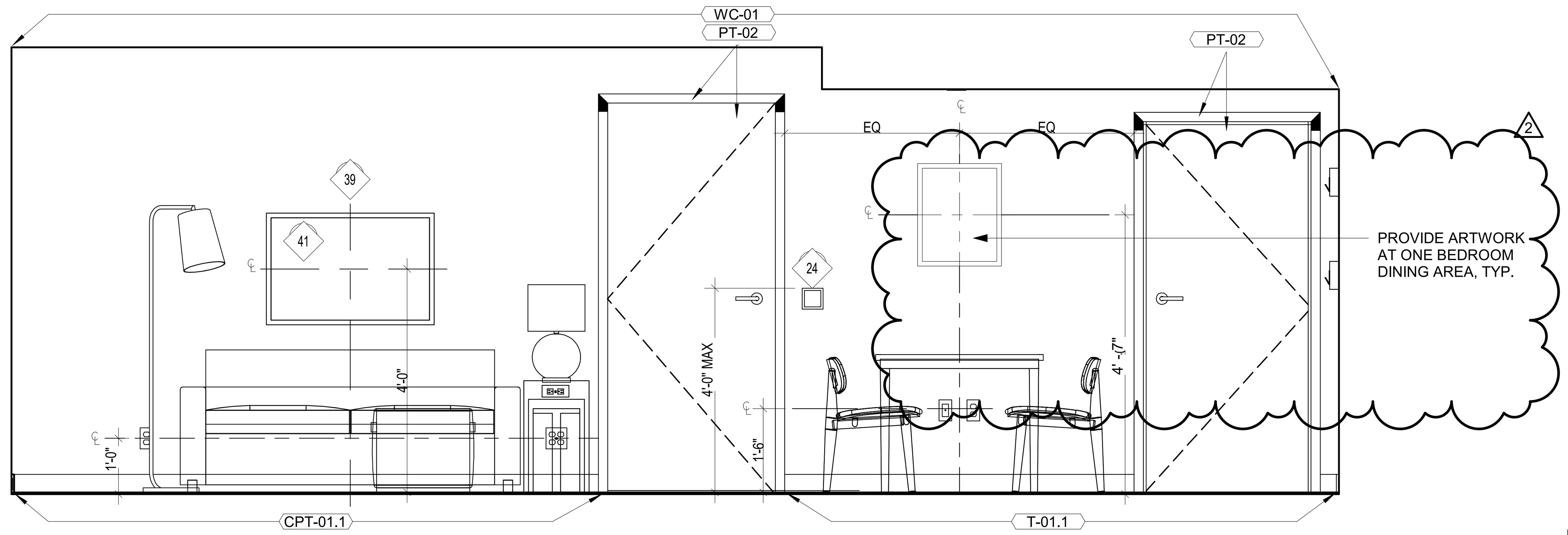
HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
KING ONE BEDROOM SUITE

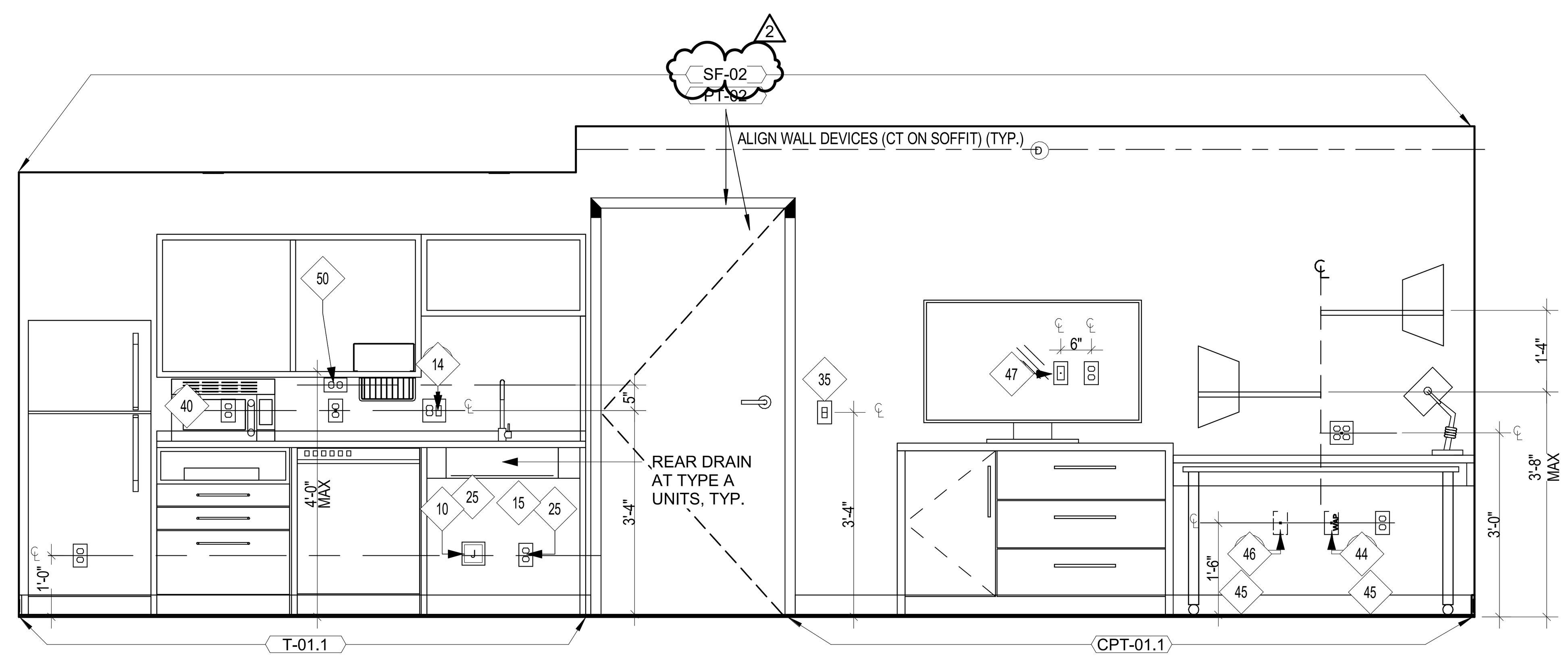
PROJECT NUMBER: 22023

SHEET NUMBER:

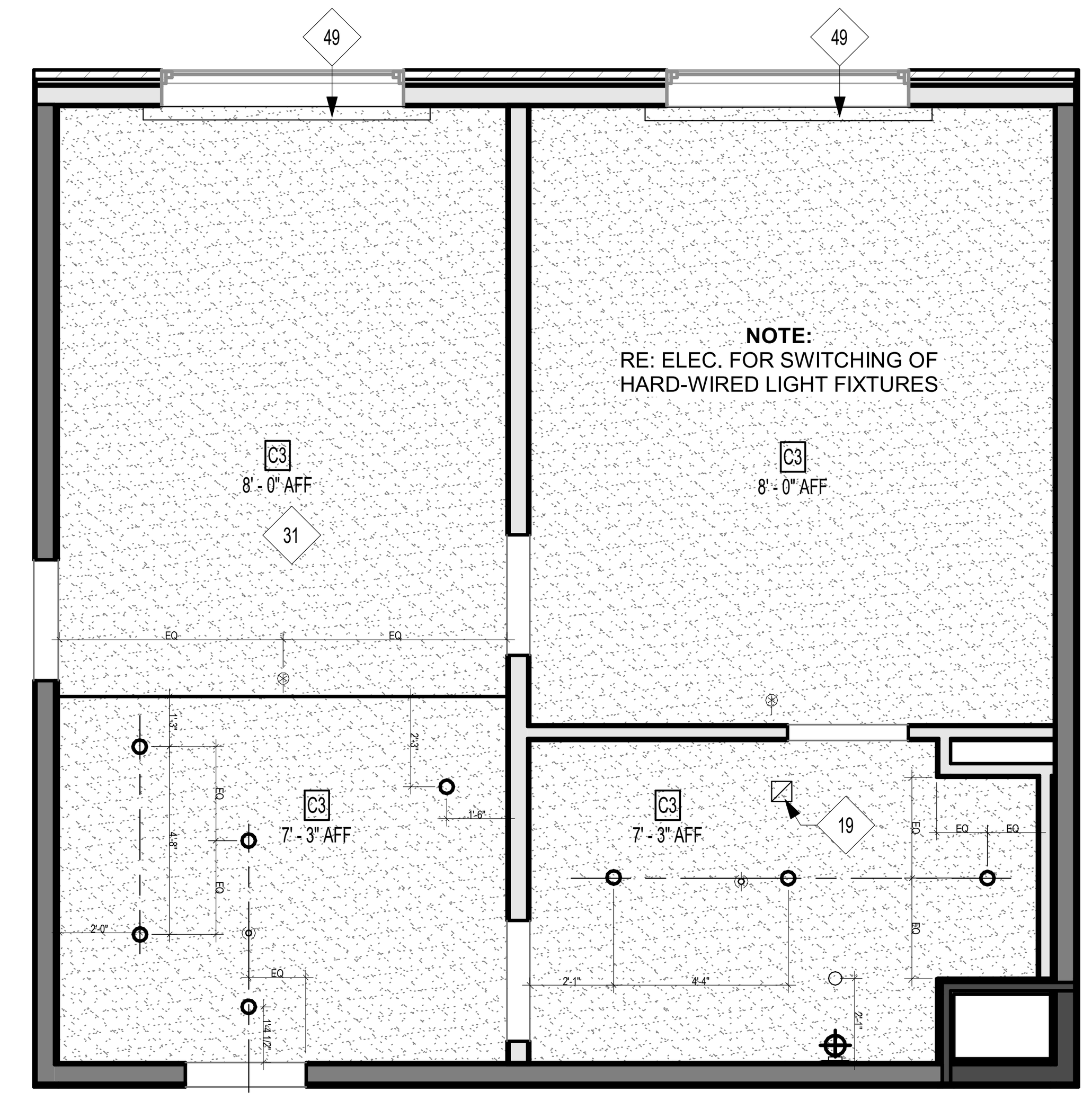
A-400



C3 KING ONE BED ACC. - SOFA & DINING
1/2" = 1'-0"



C2 KING ONE BED ACC. - WORKING WALL
1/2" = 1'-0"



B2 KING ONE BEDROOM SUITE - ACCESSIBLE - RCP
1/4" = 1'-0"

UNIT PLAN LEGEND

	PARTIAL HEIGHT PARTITION
	P1 WALL (UNLESS NOTED OTHERWISE); SEE PARTITION SCHEDULE FOR ASSEMBLY INFORMATION
PT-01	FINISH TAG
101	DOOR TAG
	ACCESSIBLE ROUTE (36" CLEAR; 32" MIN REQ'D @ DOOR OPENING PER ANSI A117.1)

UNIT FINISH LEGEND

	CPT-01 -- CARPET TILE
	CPT-02 -- CARPET TILE
	T-01 -- TILE

UNIT RCP LEGEND

	C3 - GWB ON METAL STUD
	RETURN GRILL
9' - 0" AFF	INDICATES CEILING HEIGHT, BELOW MATERIAL TAG

REFERENCE G-003 FOR GENERAL NOTES
REFERENCE A-600 FOR DOOR & WINDOW SCHEDULES

KEYNOTE LEGEND

1	PTAC UNIT
7	PREMANUFACTURED SHOWER PAN
10	DEDICATED CIRCUIT FOR DISHWASHER
12	MIRROR
14	SWITCH CONTROLLING GARBAGE DISPOSAL GANGED WITH DUPLEX - REFER TO HADG FOR ACCESSIBLE ROOM REQUIREMENTS
15	DEDICATED CIRCUIT FOR GARBAGE DISPOSAL
19	TOILET EXHAUST GRILLE
21	EXTENT OF SLEEPER SOFA
24	HARD WIRED THERMOSTAT FOR PTAC. MOUNTED 48" MAX TO TOP OF DEVICE. COMMUNICATION BETWEEN THERMOSTAT AND PTAC MAY BE WIRELESS.
25	EXTEND J-BOX, DEVICE & COVER PLATE FLUSH W/ MILLWORK BACK PANEL
30	EDGE OF PTAC ABOVE CARPET TILES
31	MIN. CEILING HEIGHT MUST BE MAINTAINED - REFER TO HOME 2 SUITES BY HILTON STANDARDS MANUAL
32	FRAMING SUBCONTRACTOR TO PROVIDE 3/4" F.R.T. PLYWOOD BLOCKING TO RECEIVE ITEM INDICATED - EXTEND FULL LENGTH OF OBJECT
35	SWITHES CONTROLLING MECHANICAL SHADES - REFER TO FFE MANUAL
39	CENTER ARTWORK OVER SOFA
40	COUNTERTOP MICROWAVE
41	GRAPHIC ART. REFER TO ACCESSORIES LEGEND & CONSTRUCTION PLAN
44	WAP IN 3-GANG BOX MOUNTED VERTICALLY UNDER DESK. MAINTAIN 6" BETWEEN ALL BOXES, TYP ALL GUESTROOMS. COORDINATE WAP LOCATION WITH CASEGOODS TO AVOID CONFLICTS. VISIT CONNECTEDROOM.HILTON.COM FOR CURRENT WIRELESS INTERNET REQ'S AND LIST OF APPROVED INTEGRATORS.
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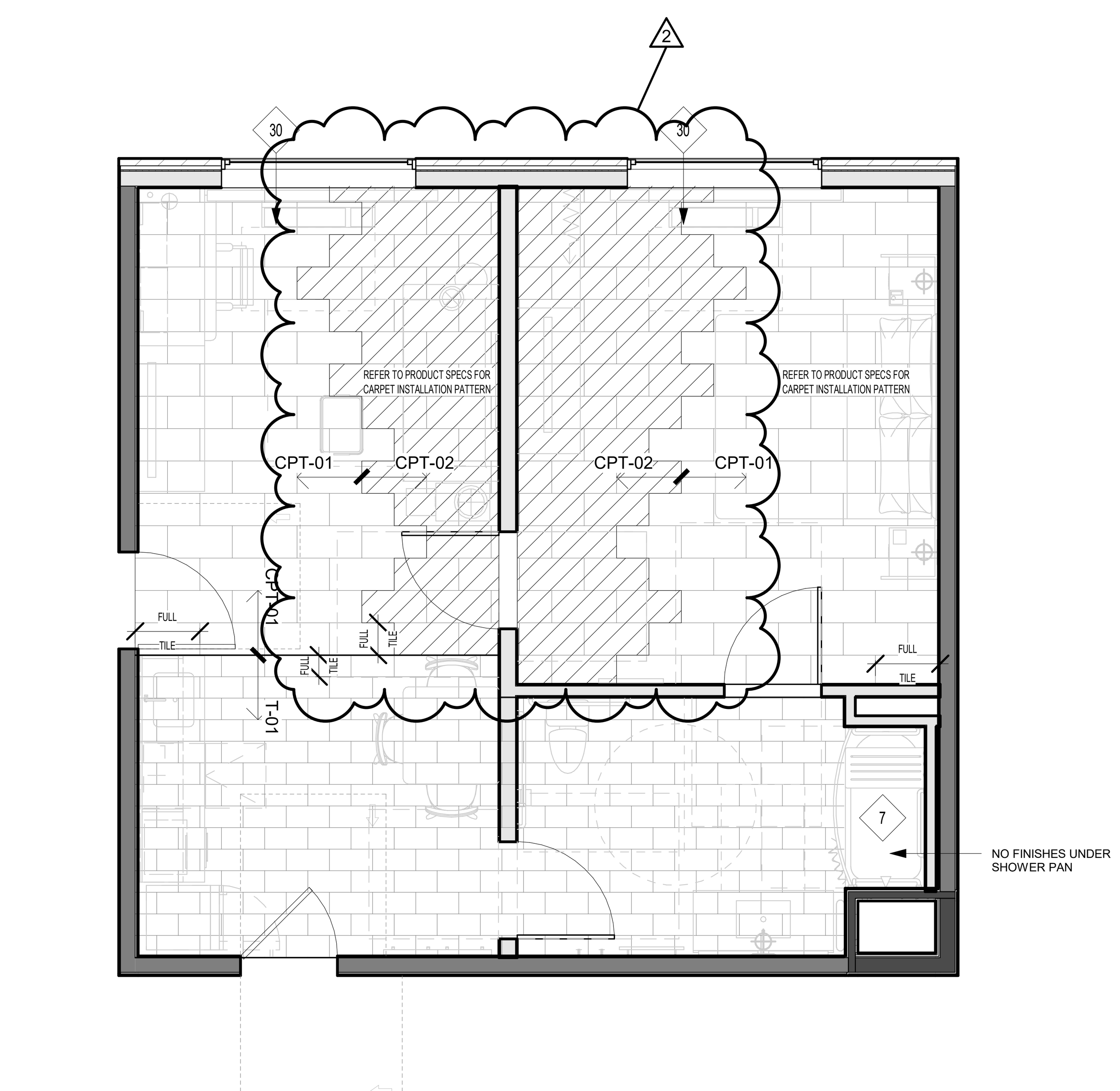
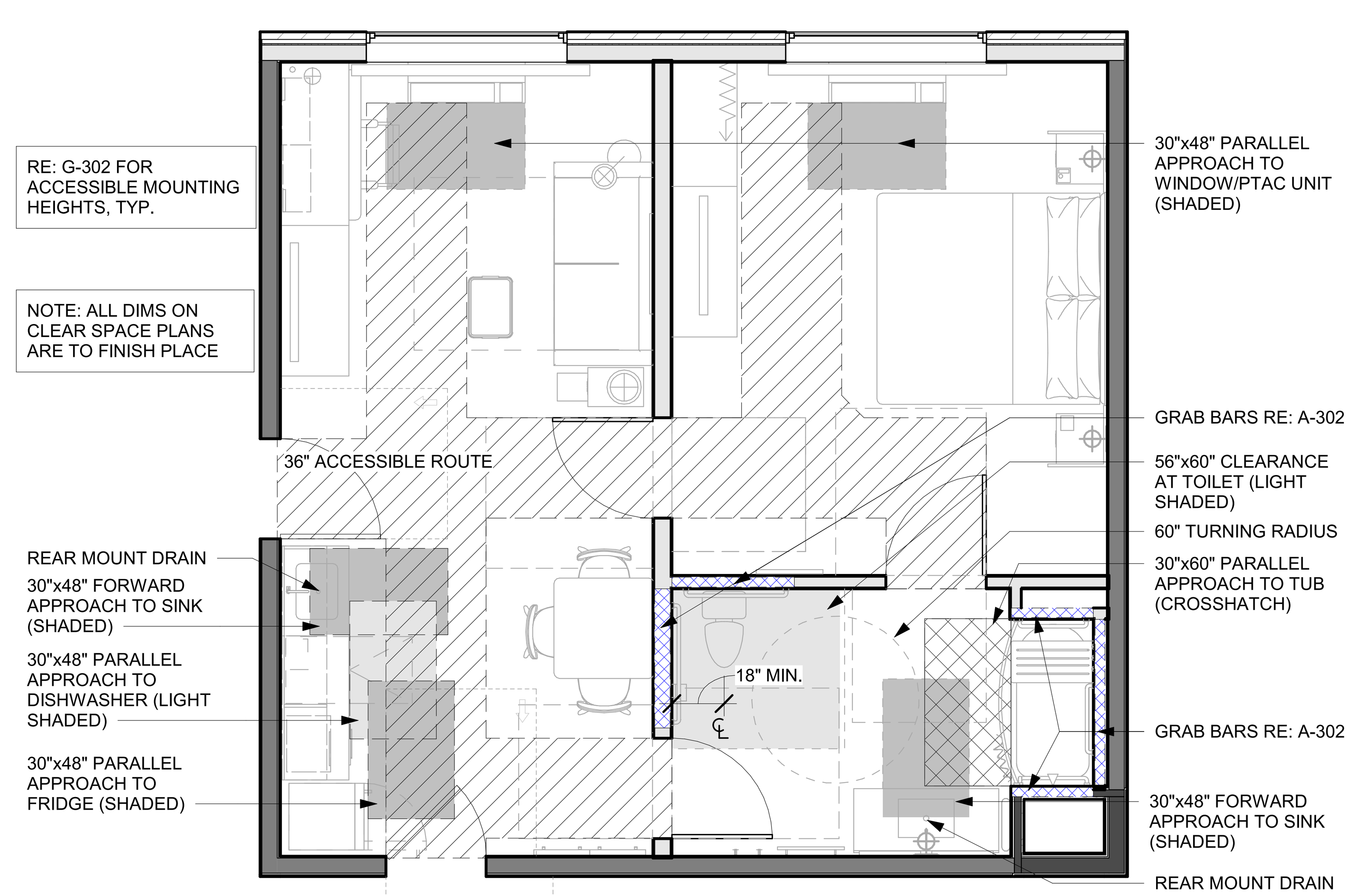
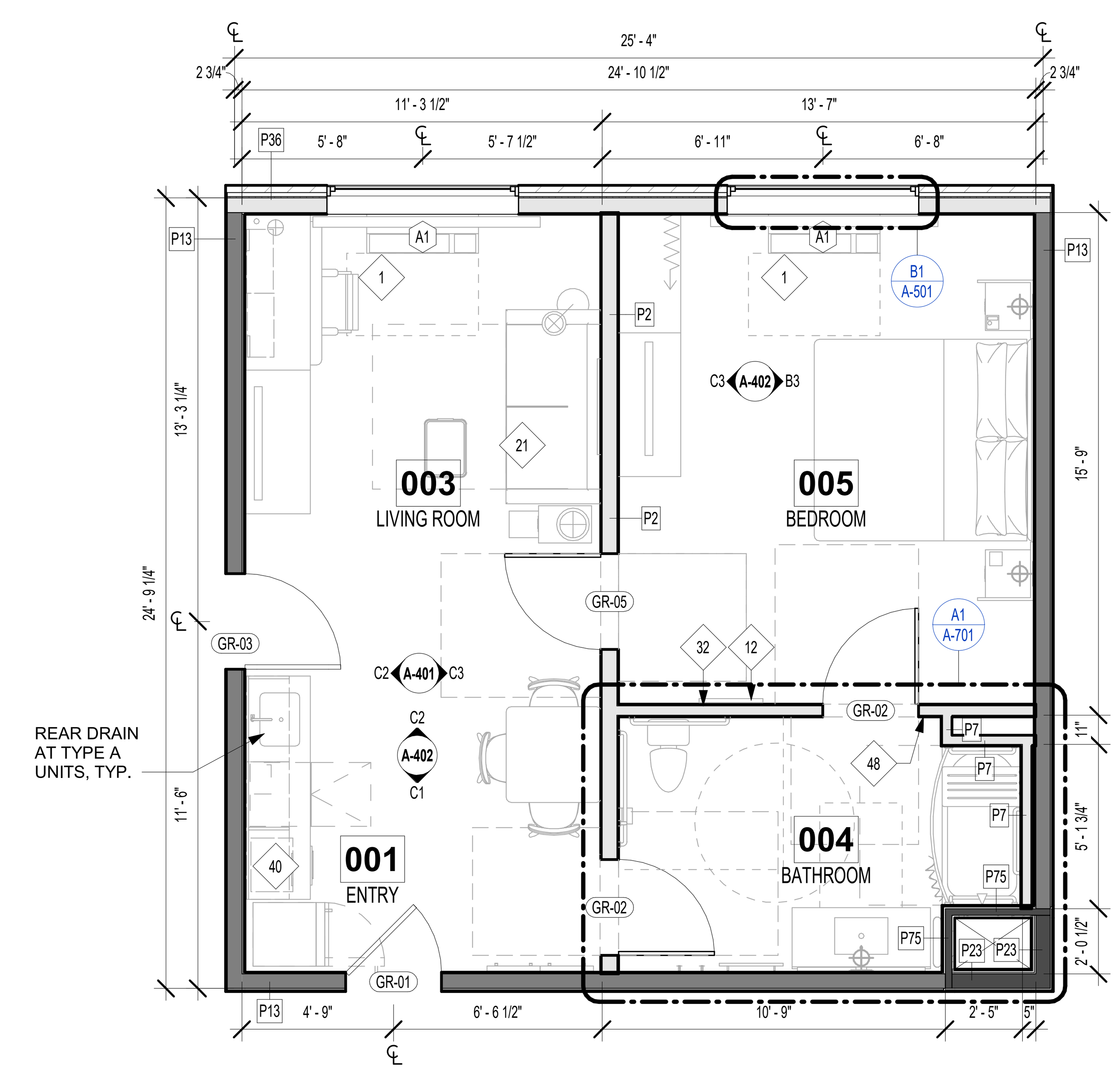
48	PROVIDE HINGE STOP AT DOOR
49	HARDWIRED BLACK OUT ROLLER SHADE WITH NO EXPOSED WIRES
50	PROVIDE OUTLET FOR UNDERCABINET LIGHTING BY OTHERS



C1 KING ONE BEDROOM SUITE - ACCESSIBLE - FINISH PLAN
1/4" = 1'-0"



B1 KING ONE BEDROOM SUITE - ACCESSIBLE - CLEAR SPACE PLAN
1/4" = 1'-0"



A1 KING ONE BEDROOM SUITE - ACCESSIBLE - FLOOR PLAN
1/4" = 1'-0"

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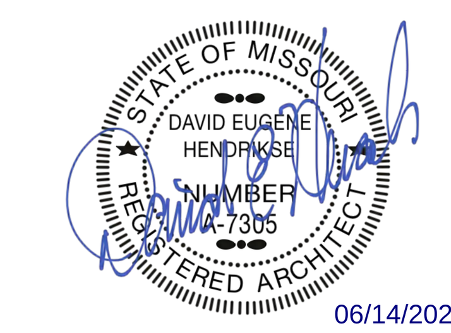

06/14/2024

HOME2 SUITES BY HILTON

LEE'S SUMMIT, MO

SHEET TITLE
KING ONE BEDROOM SUITE - ACCESSIBLE

PROJECT NUMBER: 22023

SHEET NUMBER:

A-401

REFERENCE G-003 FOR GENERAL NOTES

KEYNOTE LEGEND

1	PTAC UNIT
4	MANUAL BLACK OUT ROLLER SHADE TO EXTEND 6" BEYOND WINDOW OPENING; SHEER ROLLER SHADE TO BE MOUNTED INSIDE WINDOW OPENING
12	MIRROR
16	FIRE HORN IN STANDARD ROOMS. FIRE HORN/STROBE IN COMMUNICATION FEATURES ROOMS
20	MAKE-UP AIR DIFFUSER
23	ROOM SIGNAGE
24	HARD WIRED THERMOSTAT FOR PTAC, MOUNTED 48" MAX TO TOP OF DEVICE. COMMUNICATION BETWEEN THERMOSTAT AND PTAC MAY BE WIRELESS.
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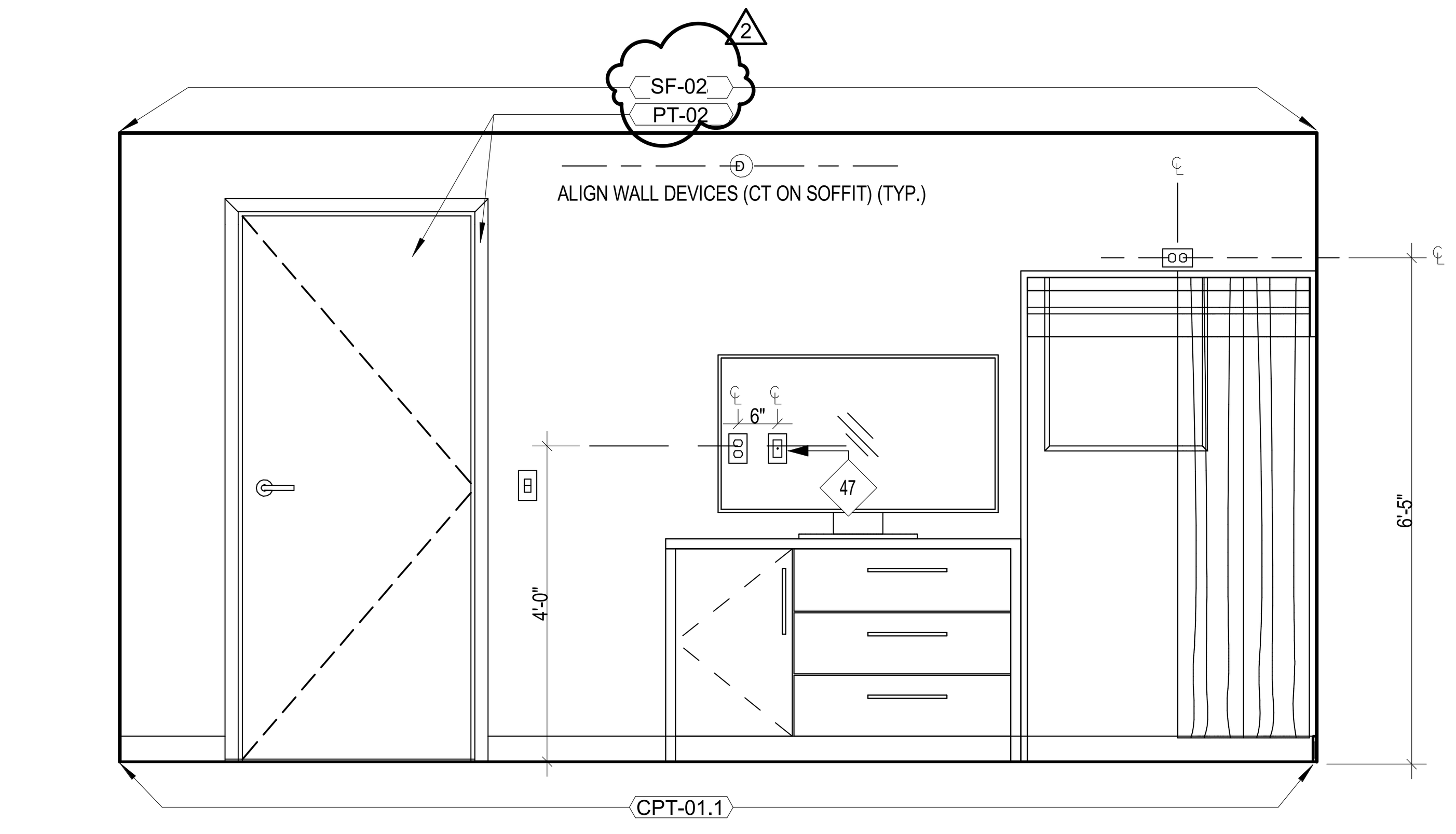
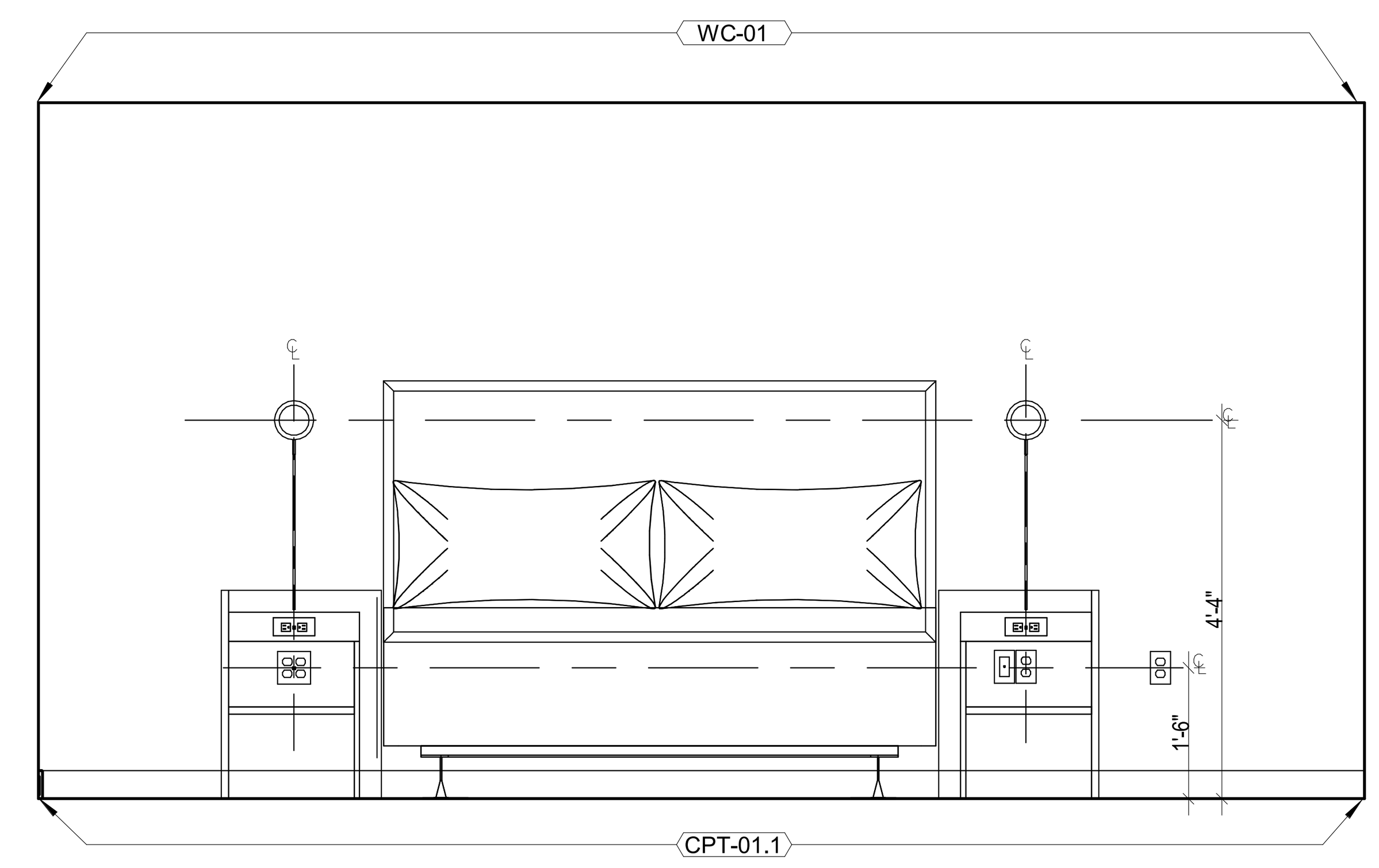
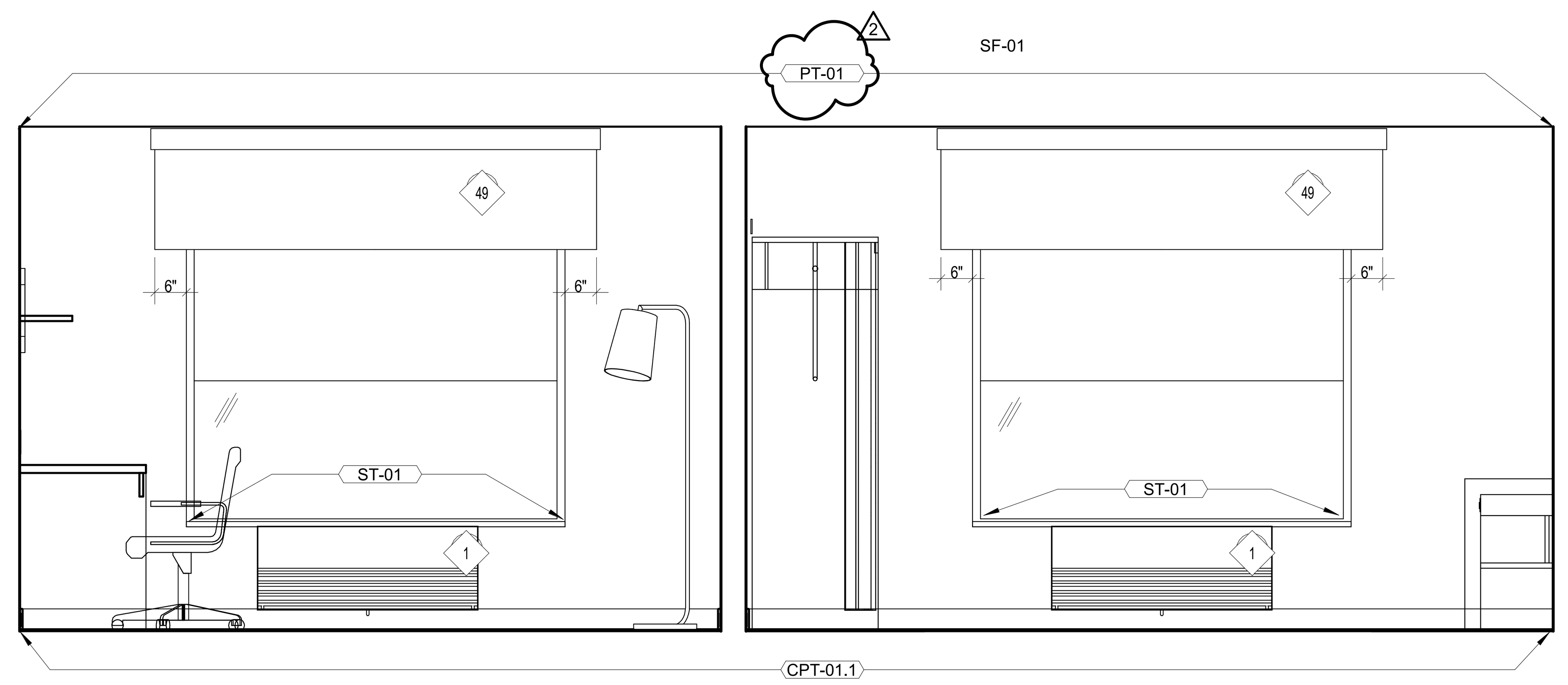
49	HARDWIRED BLACK OUT ROLLER SHADE WITH NO EXPOSED WIRES



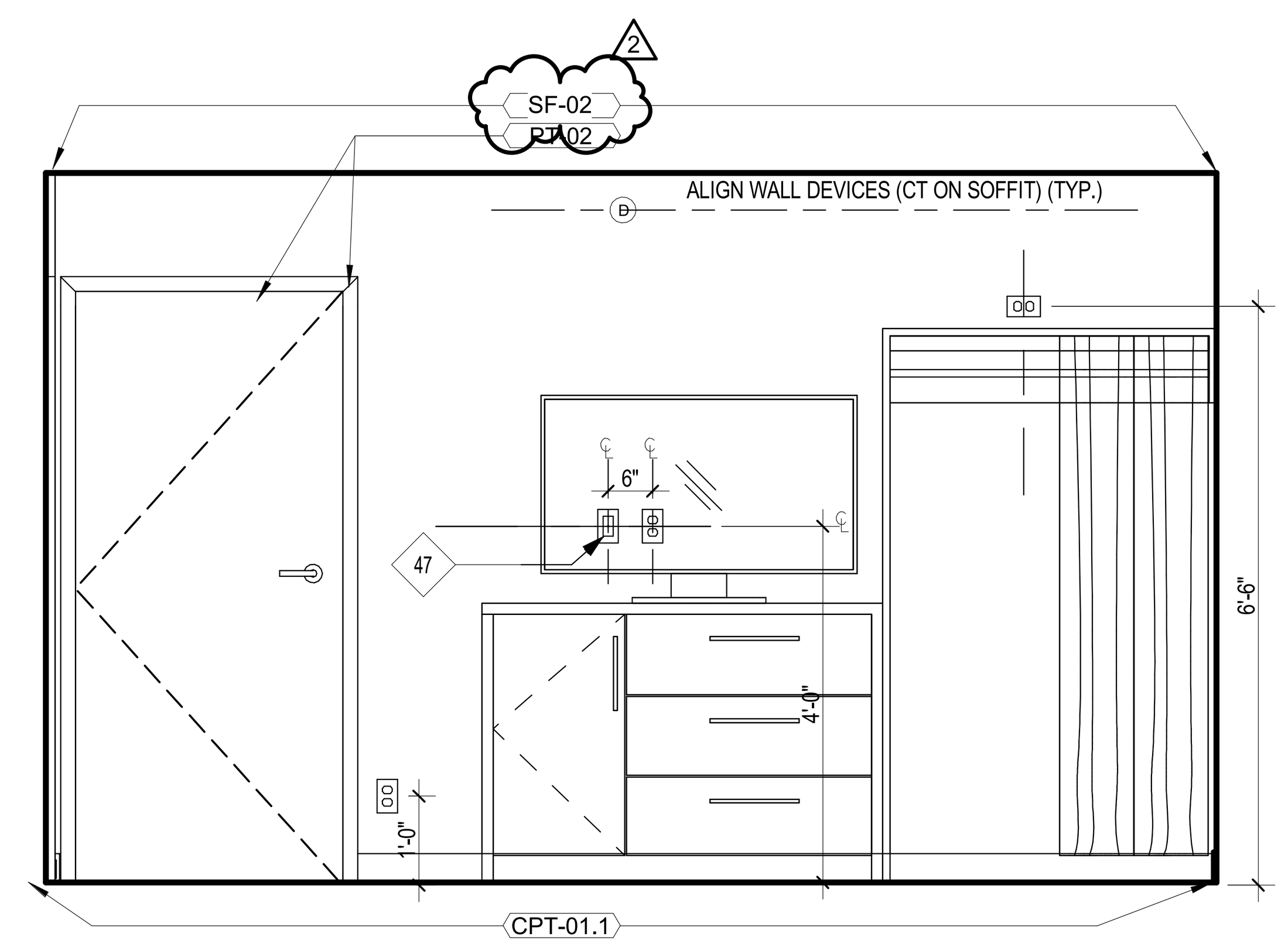
C3 KING ONE BED ACC. - BEDROOM CLOSET
1/2" = 1'-0"



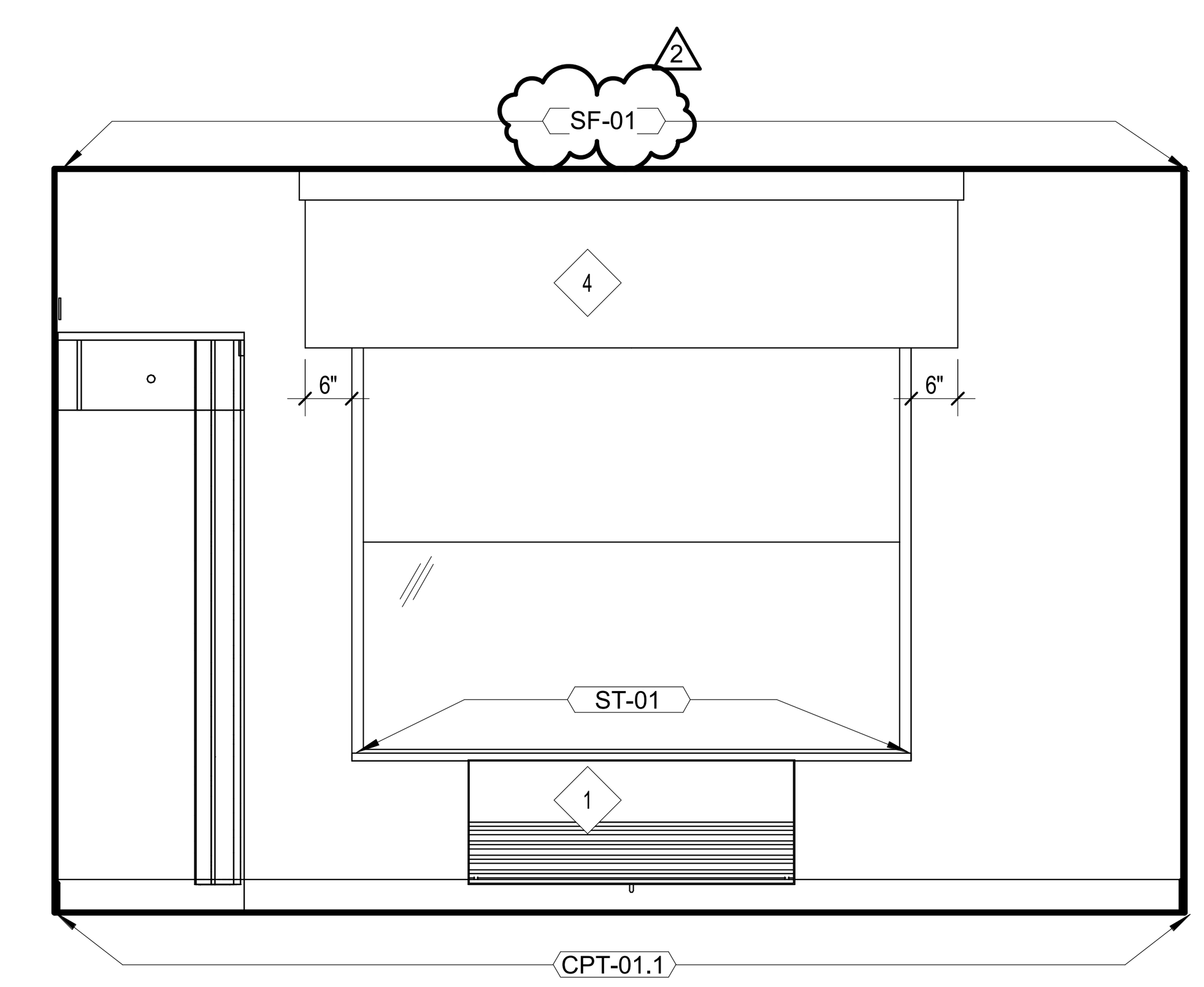
B3 KING ONE BED ACC. - HEADBOARD
1/2" = 1'-0"



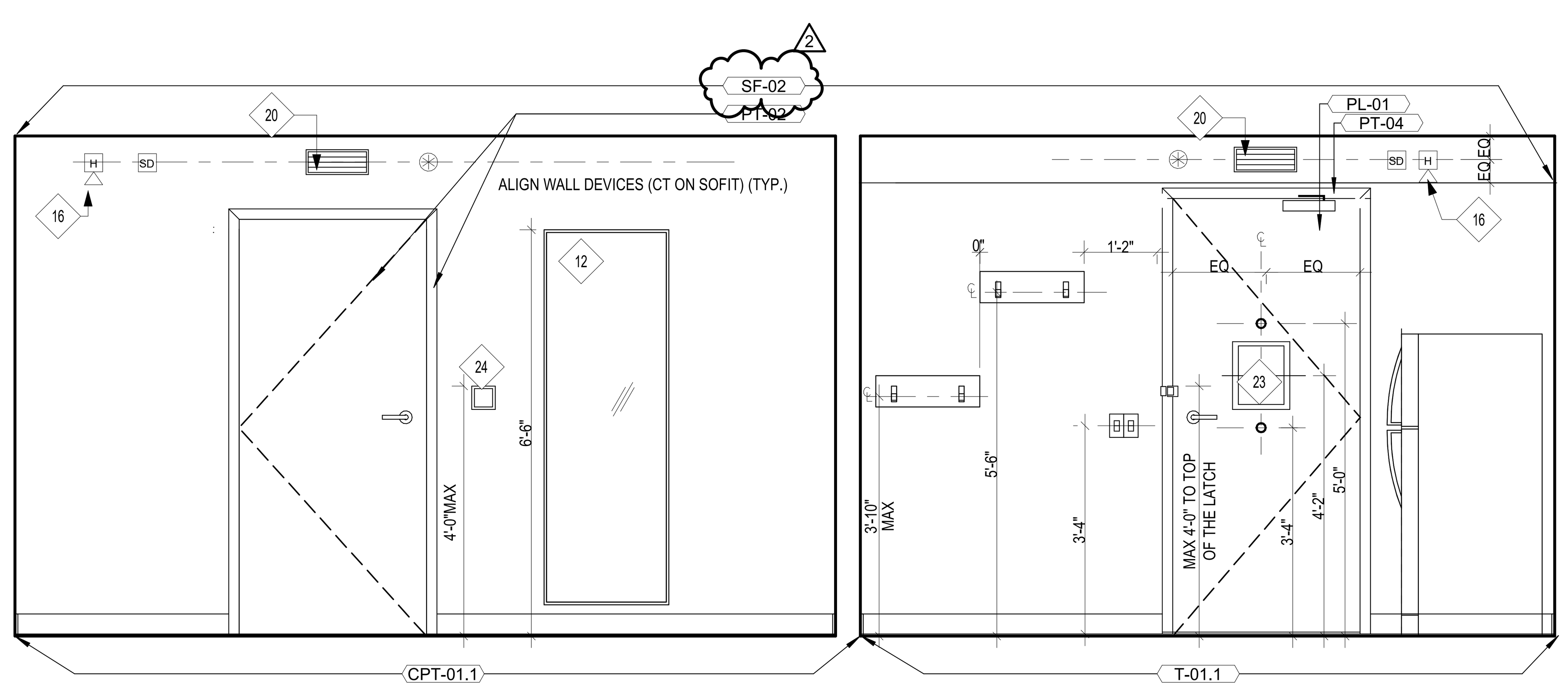
C2 KING ONE BED ACC. - WINDOW WALL
1/2" = 1'-0"



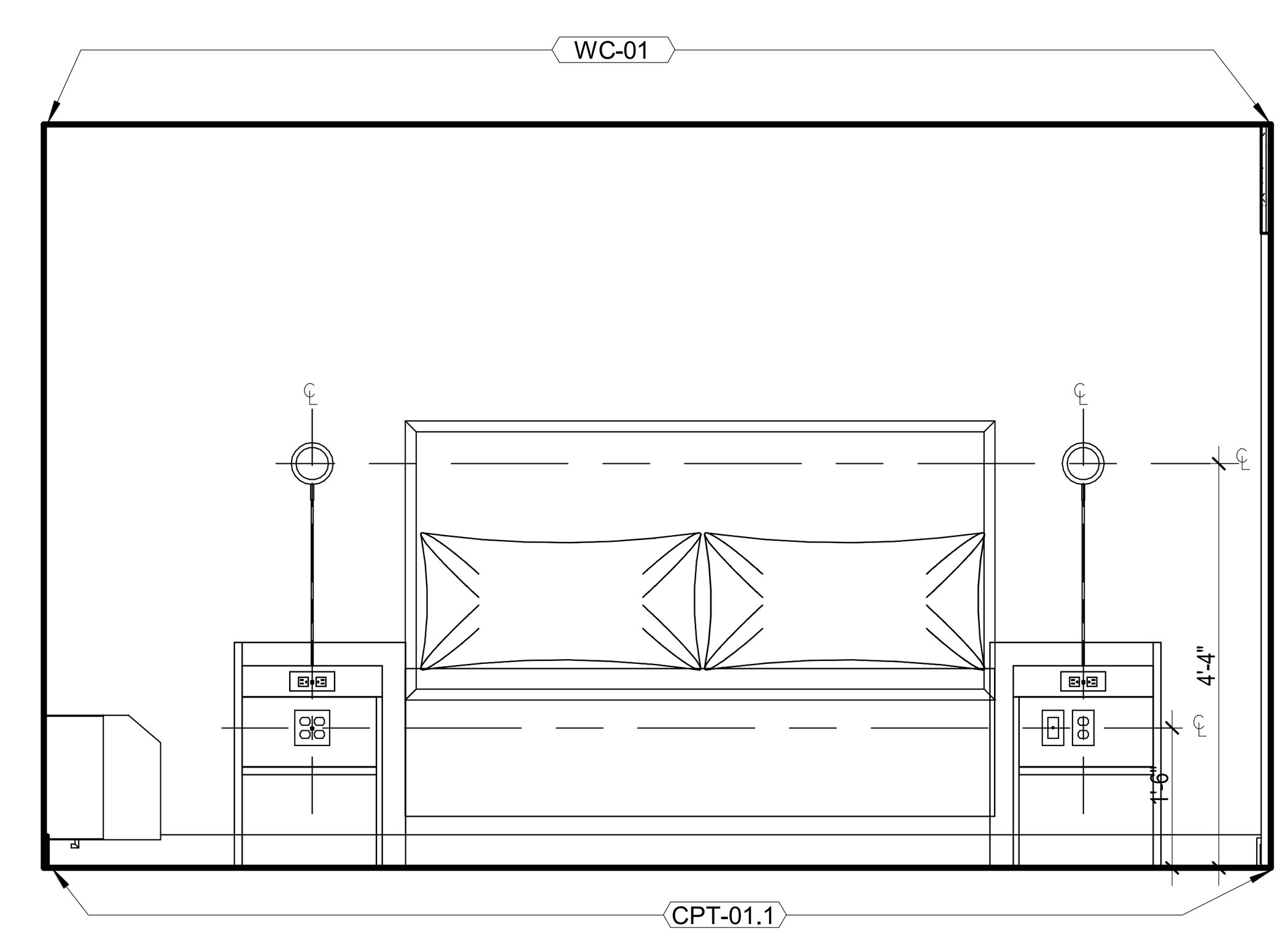
B2 KING ONE BEDROOM - BEDROOM STORAGE
1/2" = 1'-0"



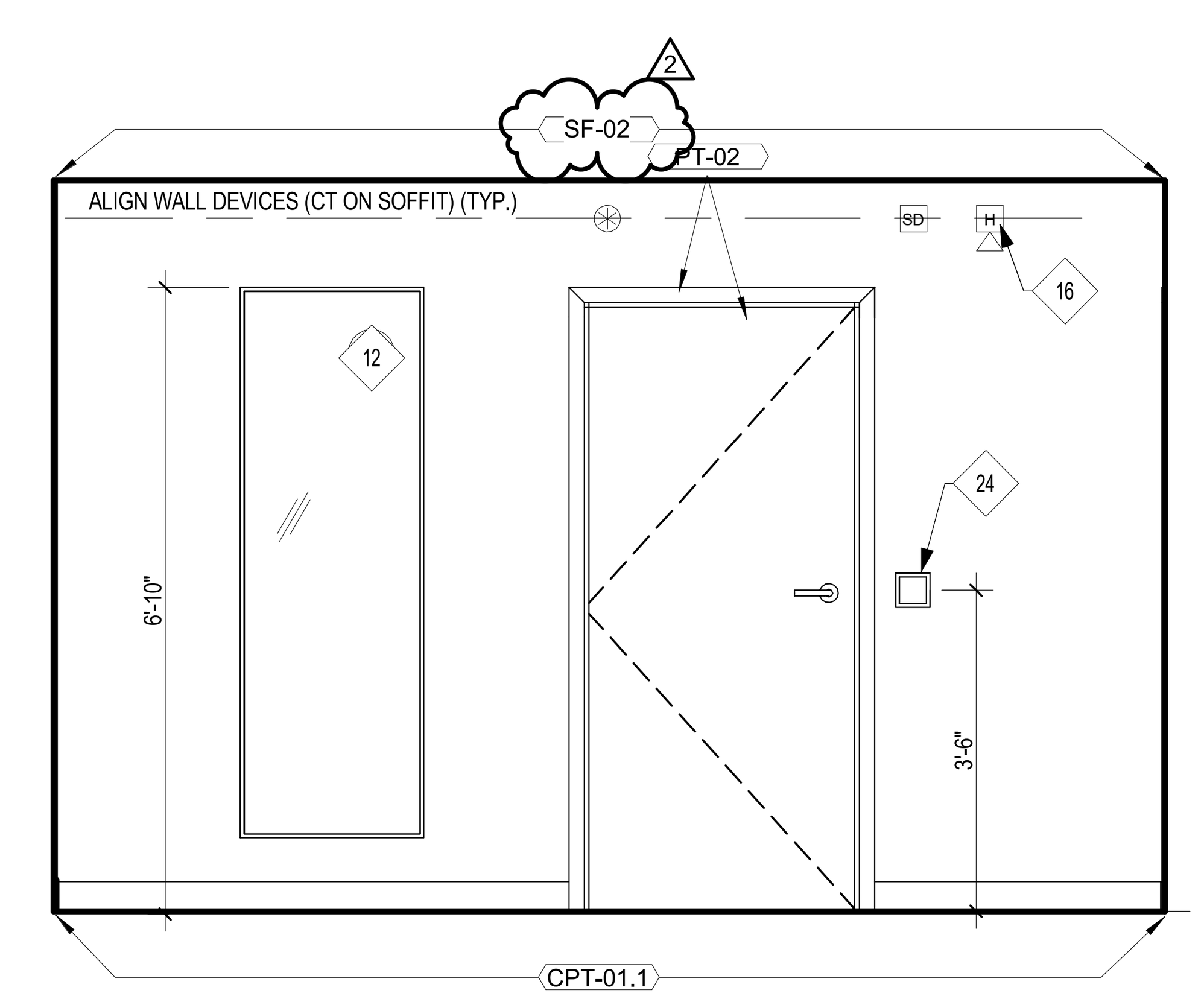
A2 KING ONE BEDROOM - BEDROOM WINDOW
1/2" = 1'-0"



C1 KING ONE BED ACC. - ENTRY
1/2" = 1'-0"



B1 KING ONE BEDROOM - HEADBOARD
1/2" = 1'-0"



A1 KING ONE BEDROOM - BATH ENTRY
1/2" = 1'-0"

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STATE OF MISSOURI
DAVID EUGENE HENDRIKSE
NUMBER A-7305
REGISTERED ARCHITECT
06/14/2024

HOME2 SUITES BY HILTON

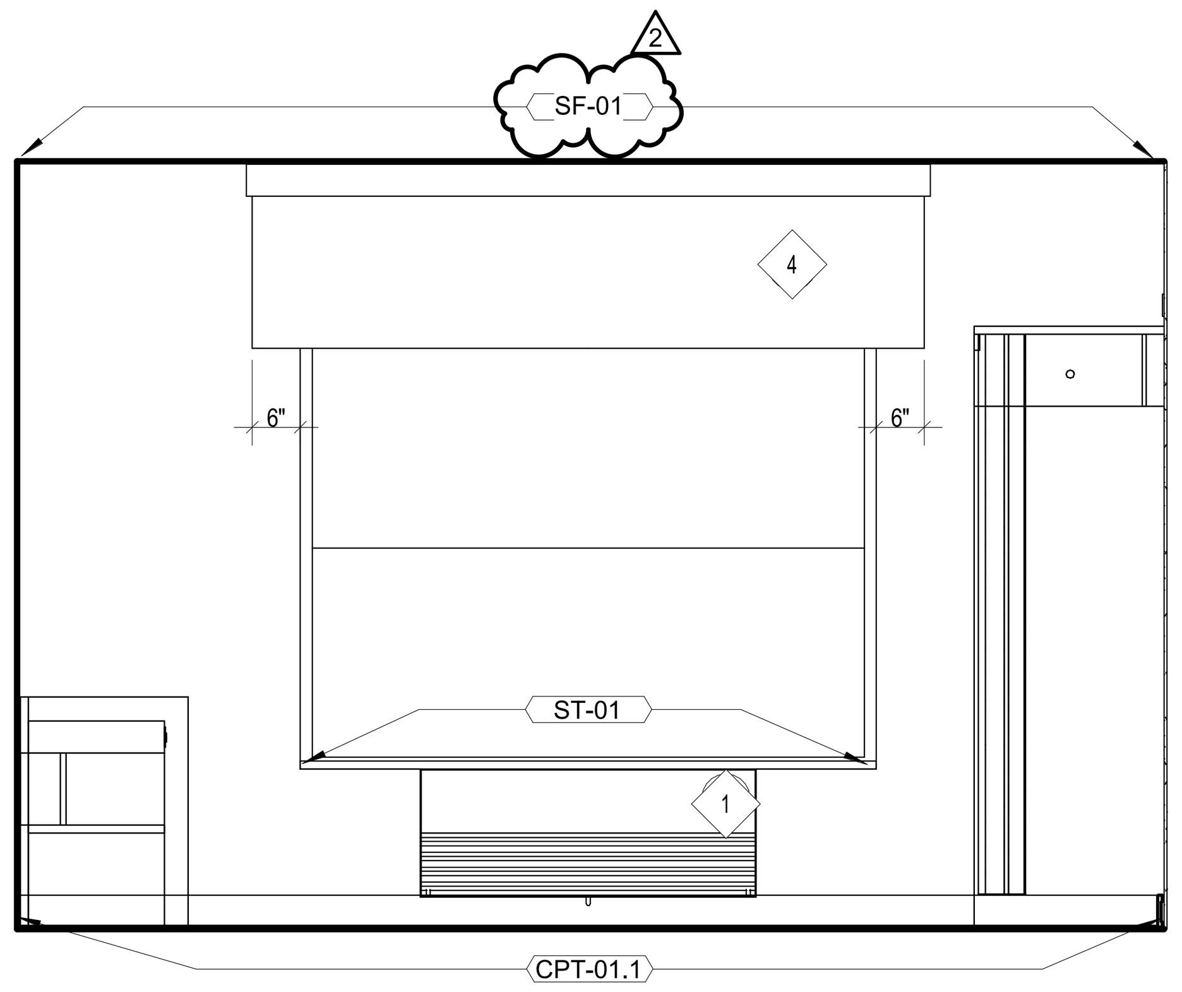
LEE'S SUMMIT, MO

SHEET TITLE
KING ONE BEDROOM SUITES - ELEVATIONS

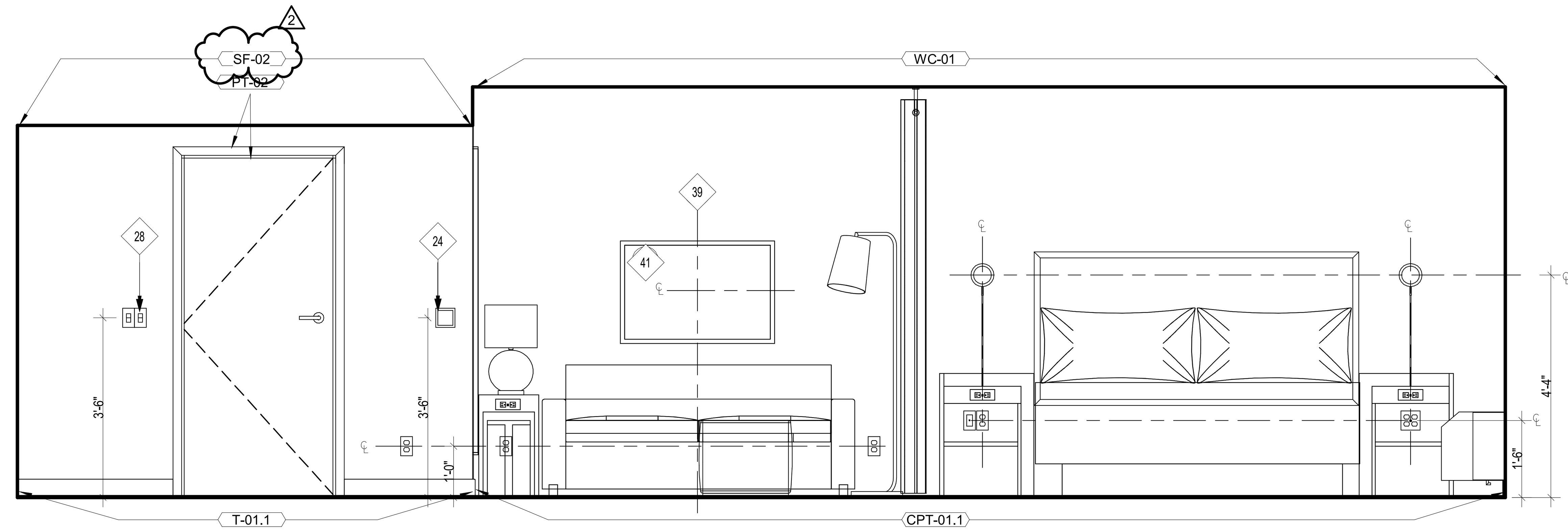
PROJECT NUMBER: 22023

SHEET NUMBER:

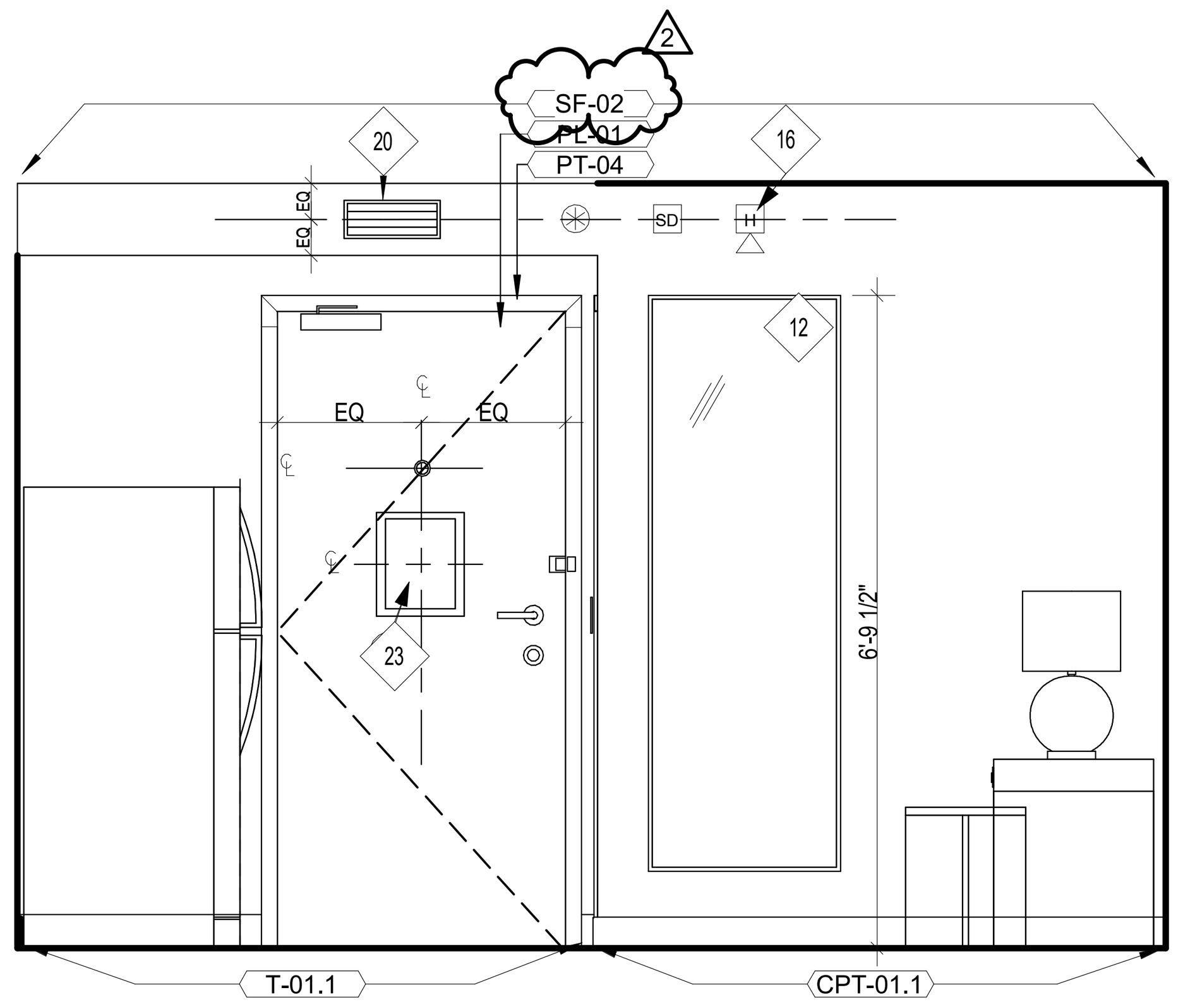
A-402



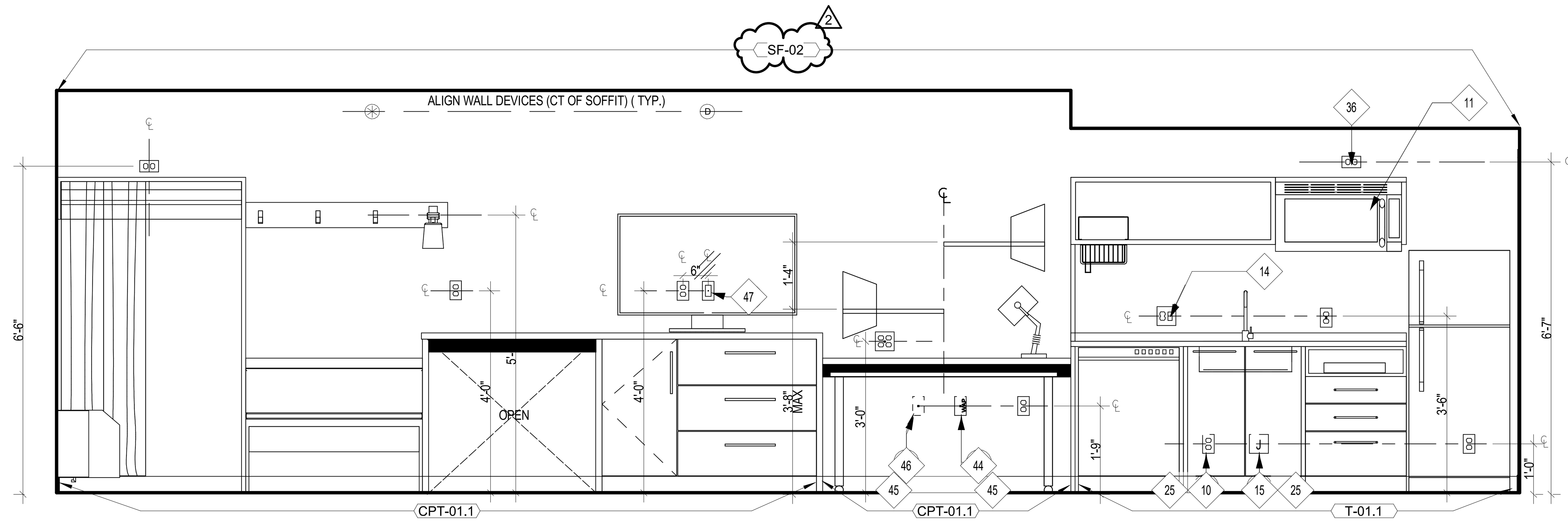
C3 KING STUDIO - WINDOW
1/2" = 1'-0"



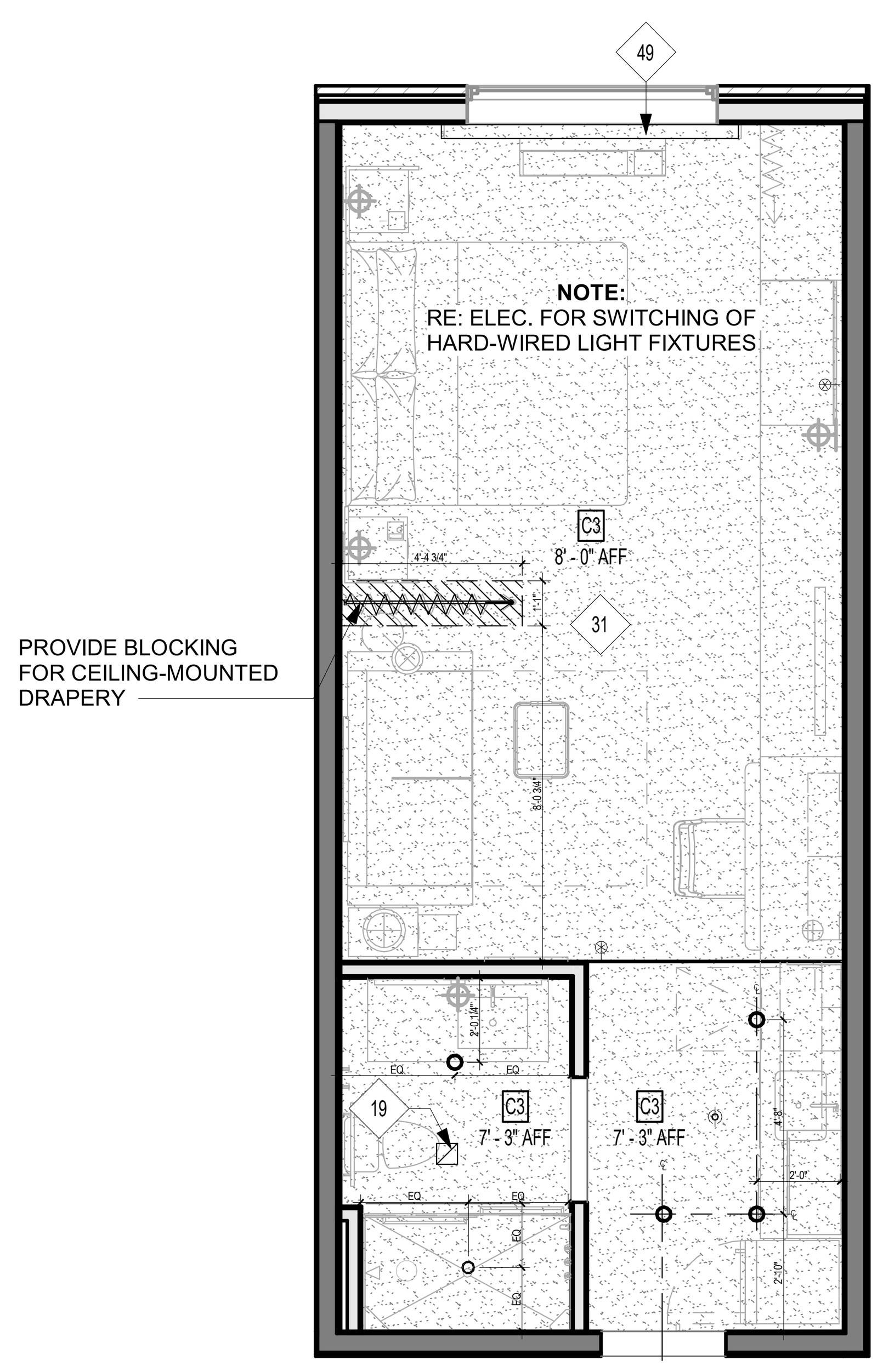
B3 KING STUDIO - HEADBOARD WALL
1/2" = 1'-0"



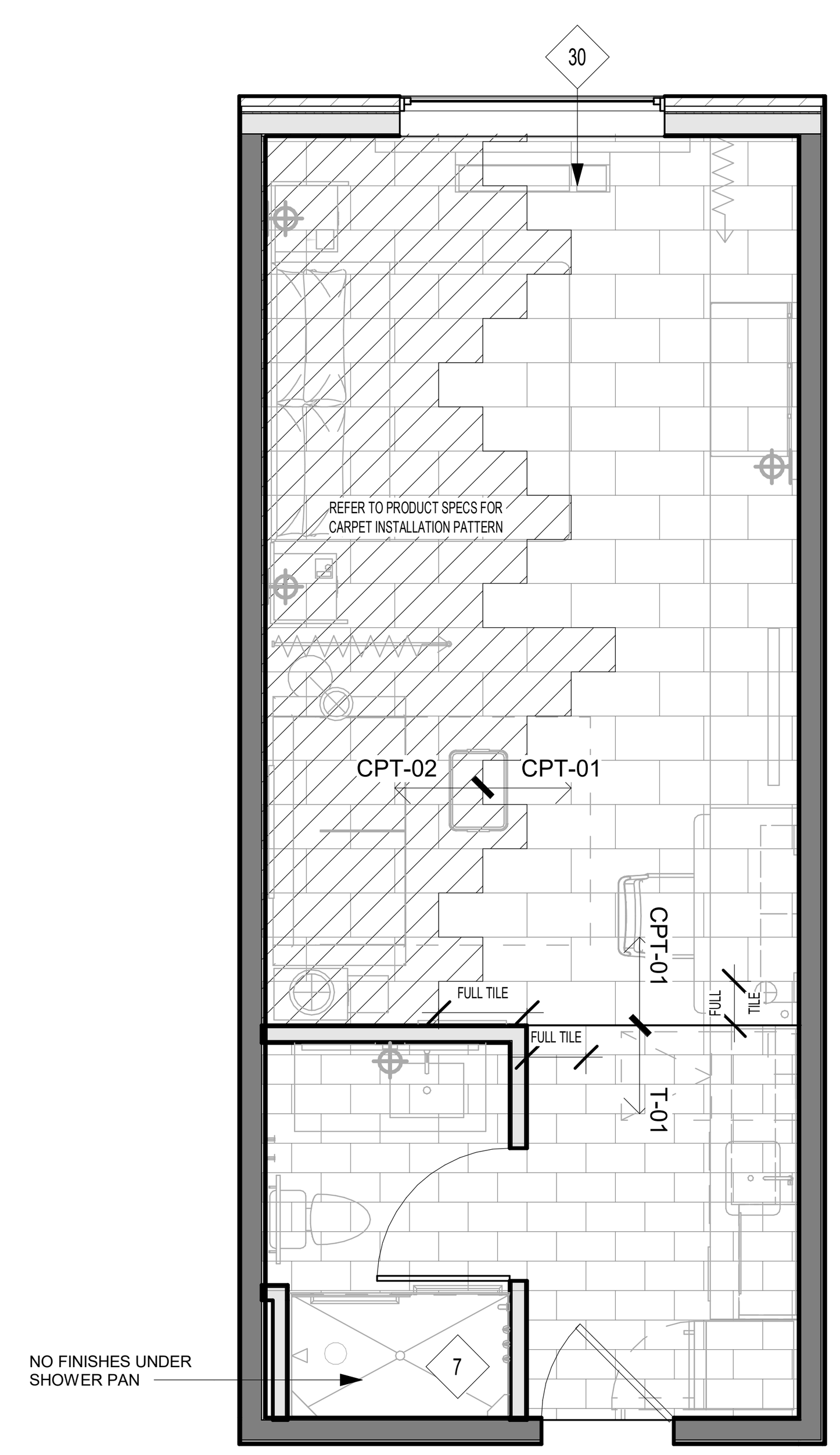
C2 KING STUDIO - ENTRY
1/2" = 1'-0"



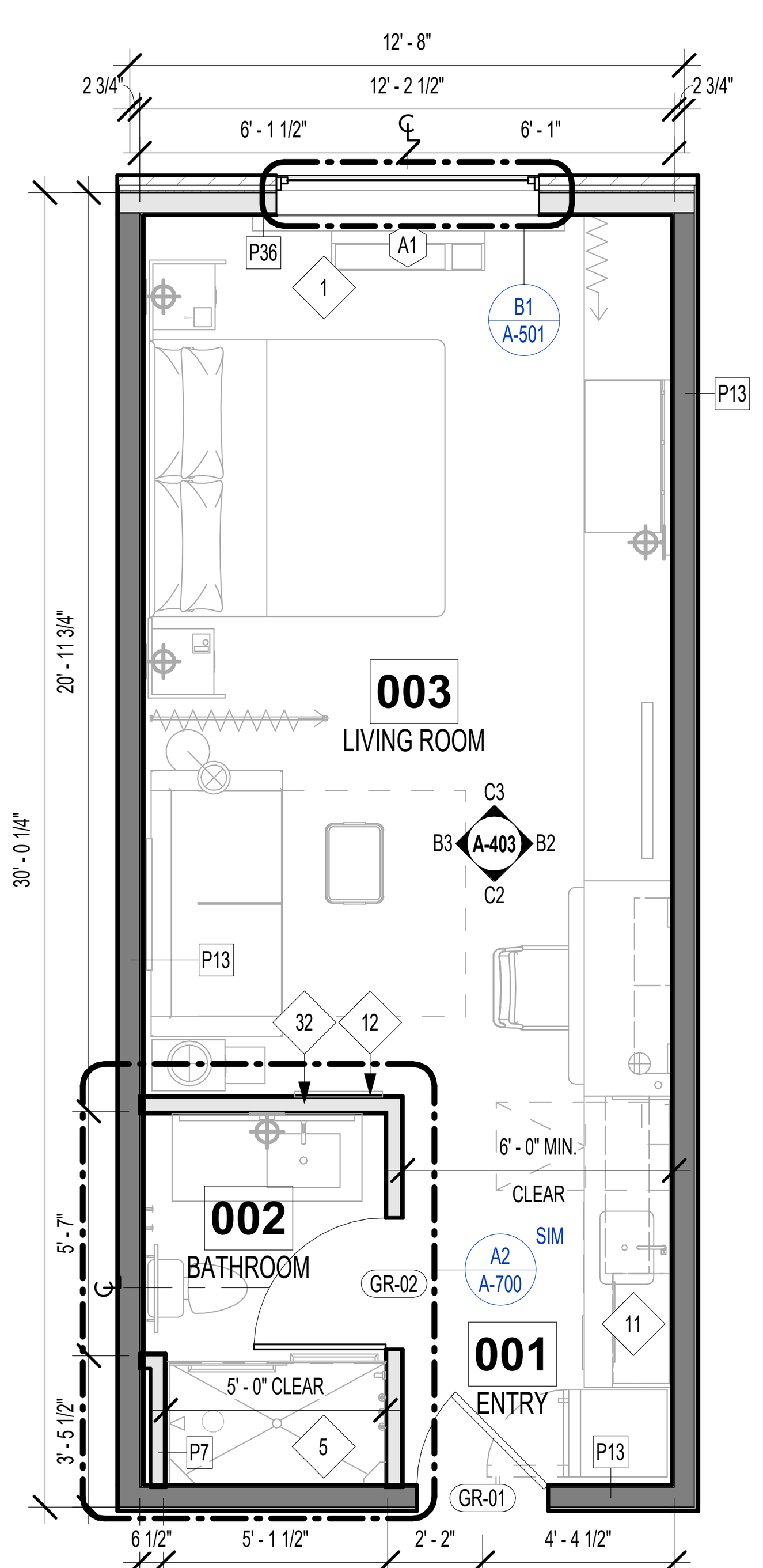
B2 KING STUDIO - WORKING WALL
1/2" = 1'-0"



C1 KING STUDIO SUITE - RCP
1/4" = 1'-0"



B1 KING STUDIO SUITE - FINISH PLAN
1/4" = 1'-0"



A1 KING STUDIO SUITE - FLOOR PLAN
1/4" = 1'-0"

REFERENCE G-003 FOR GENERAL NOTES
REFERENCE A-600 FOR DOOR & WINDOW SCHEDULES

UNIT PLAN LEGEND

- PARTIAL HEIGHT PARTITION
- P1 WALL (UNLESS NOTED OTHERWISE); SEE PARTITION SCHEDULE FOR ASSEMBLY INFORMATION
- PT-01 — FINISH TAG
- 101 — DOOR TAG
- ACCESSIBLE ROUTE (36" CLEAR; 32" MIN REQ'D @ DOOR OPENING PER ANSI A117.1)

UNIT FINISH LEGEND

- CPT-01 -- CARPET TILE
- CPT-02 -- CARPET TILE
- T-01 -- TILE

UNIT RCP LEGEND

- C3 - GWB ON METAL STUD
- RETURN GRILL
- 9' - 0" AFF — INDICATES CEILING HEIGHT, BELOW MATERIAL TAG

KEYNOTE LEGEND

1	PTAC UNIT
4	MANUAL BLACK OUT ROLLER SHADE TO EXTEND 6" BEYOND WINDOW OPENING; SHEER ROLLER SHADE TO BE MOUNTED INSIDE WINDOW OPENING
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12	MIRROR
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32	FRAMING SUBCONTRACTOR TO PROVIDE 3/4" F.R.T. PLYWOOD BLOCKING TO RECEIVE ITEM INDICATED - EXTEND FULL LENGTH OF OBJECT
36	OUTLET ABOVE FOR MICROWAVE - REFER TO ROOM ELEVATION MOUNT DEVICE HORIZONTALLY--FACE PLATE TO BE WHITE
39	CENTER ARTWORK OVER SOFA
41	GRAPHIC ART. REFER TO ACCESSORIES LEGEND & CONSTRUCTION PLAN
44	WAP IN 3-GANG BOX MOUNTED VERTICALLY UNDER DESK. MAINTAIN 6" BETWEEN ALL BOXES, TYP ALL GUESTROOMS. COORDINATE WAP LOCATION WITH CASEGOODS TO AVOID CONFLICTS. VISIT CONNECTEDROOM.HILTON.COM FOR CURRENT WIRELESS INTERNET REQ'S AND LIST OF APPROVED INTEGRATORS.
45	EACH CABLE MUST HOMERUN BETWEEN THE GUESTROOM AND THE IDF ON EACH FLOOR. VISIT CONNECTEDROOM.HILTON.COM FOR CURRENT REQUIREMENTS AND OPTIONS.
46 (2)	WIRED DATA CONNECTION FOR GUEST USE: PROVIDE CAT6 RJ-45 ABOVE THE DESK (36" AFF), RUN IN SMURF TUBE IN THE WALL TO THE WAP UNDER THE DESK.
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49	HARDWIRED BLACK OUT ROLLER SHADE WITH NO EXPOSED WIRES

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STATE OF MISSOURI
DAVID EUGENE HENDRICK
NUMBER A-1305
REGISTERED ARCHITECT
06/14/2024

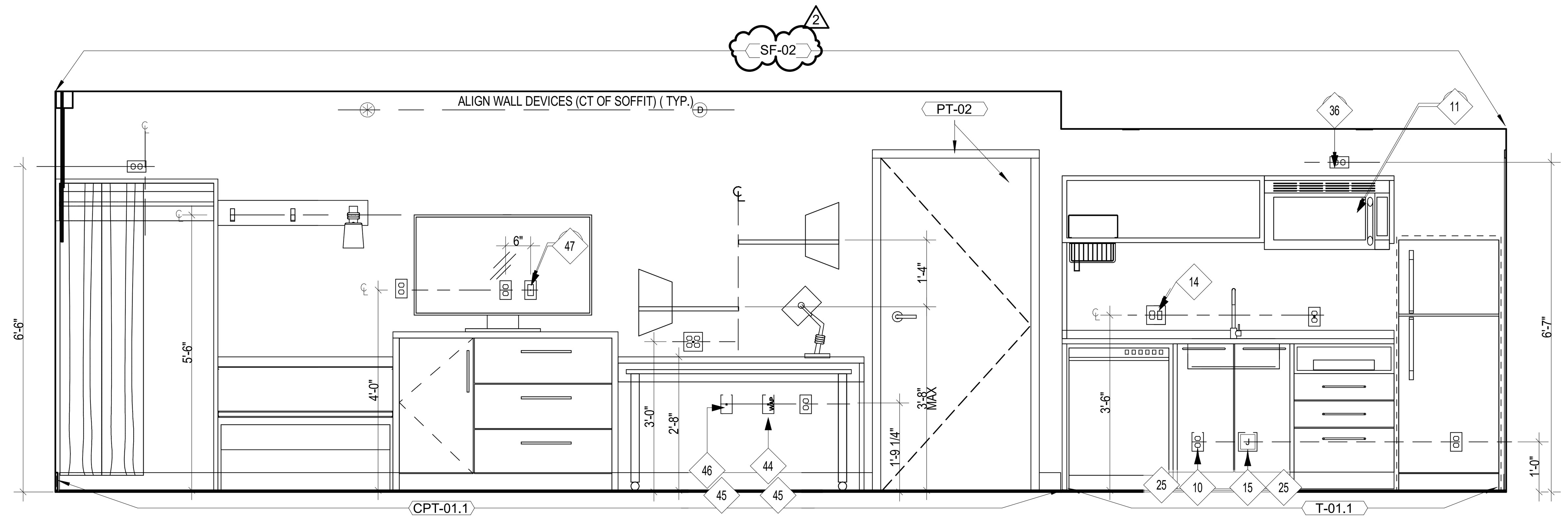
HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
KING STUDIO SUITE

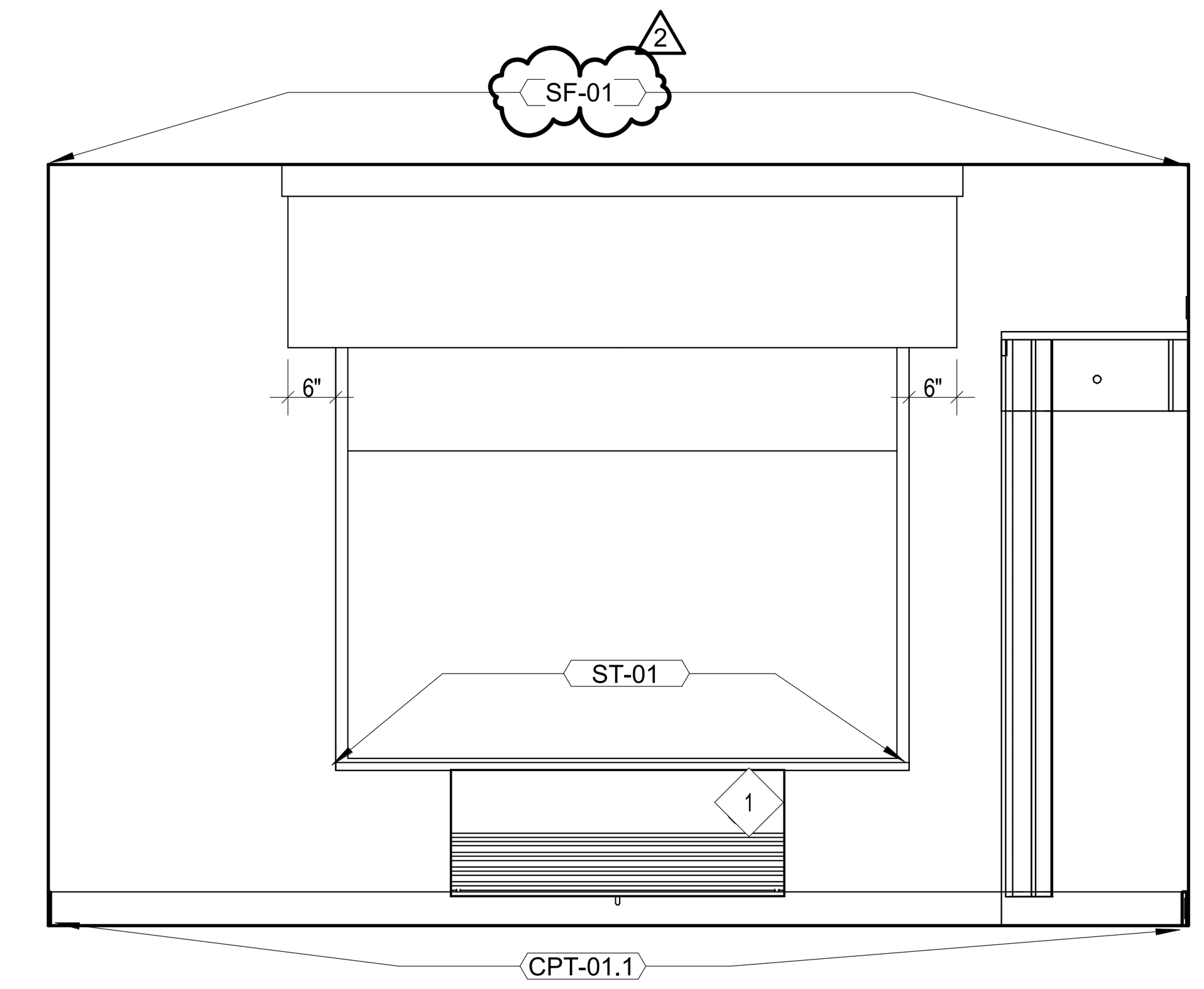
PROJECT NUMBER: 22023

SHEET NUMBER:

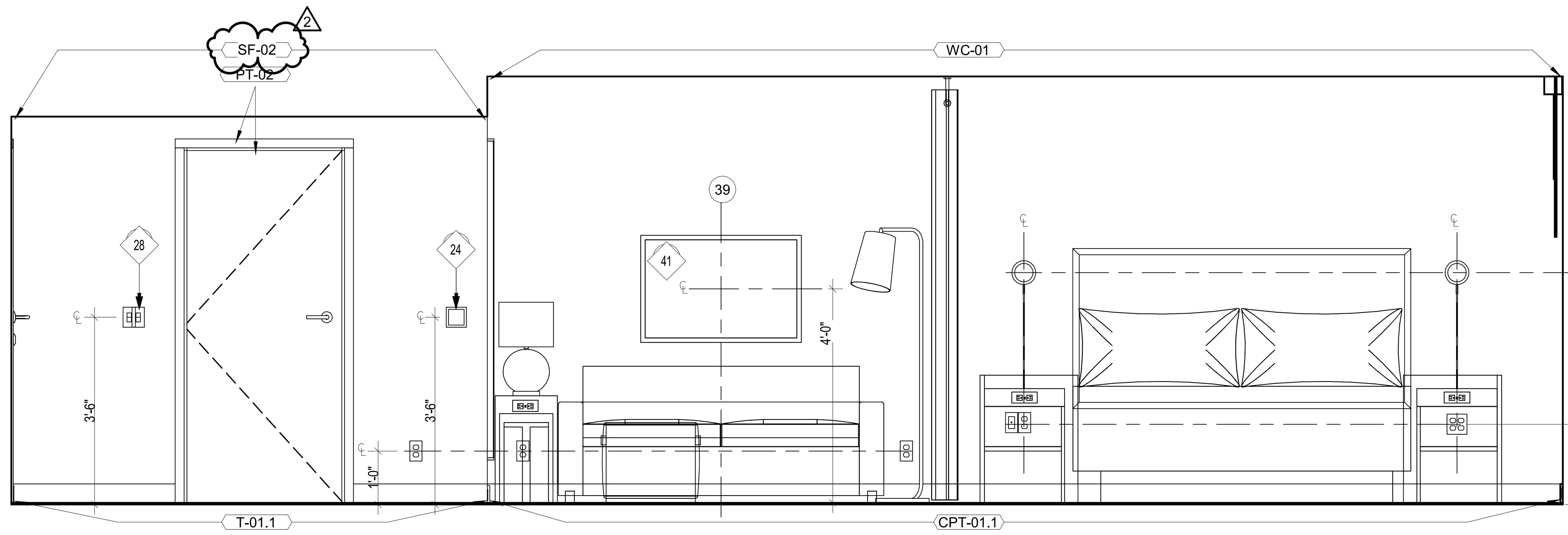
A-403



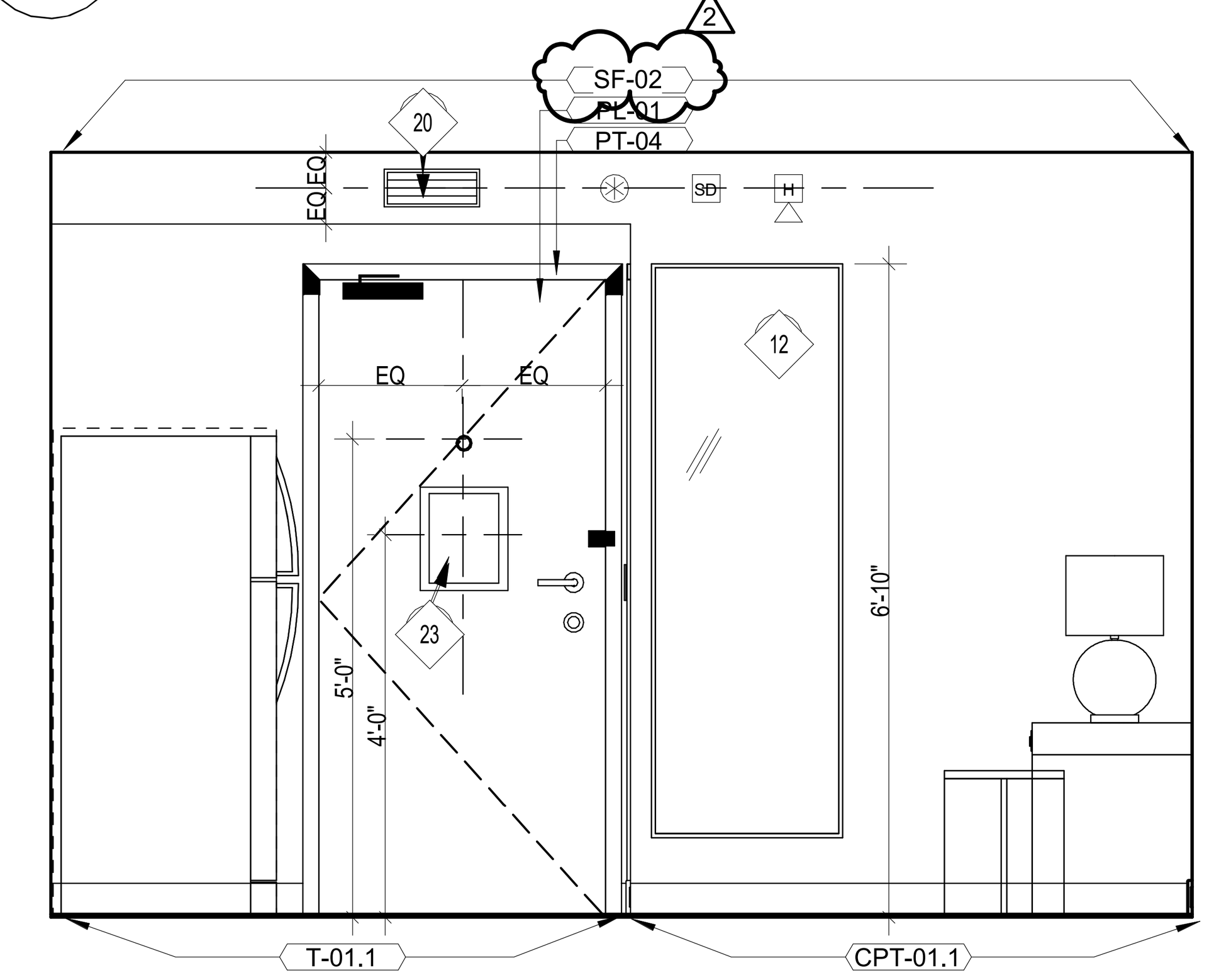
C3 KING STUDIO CONN. - WORKING WALL
1/2" = 1'-0"



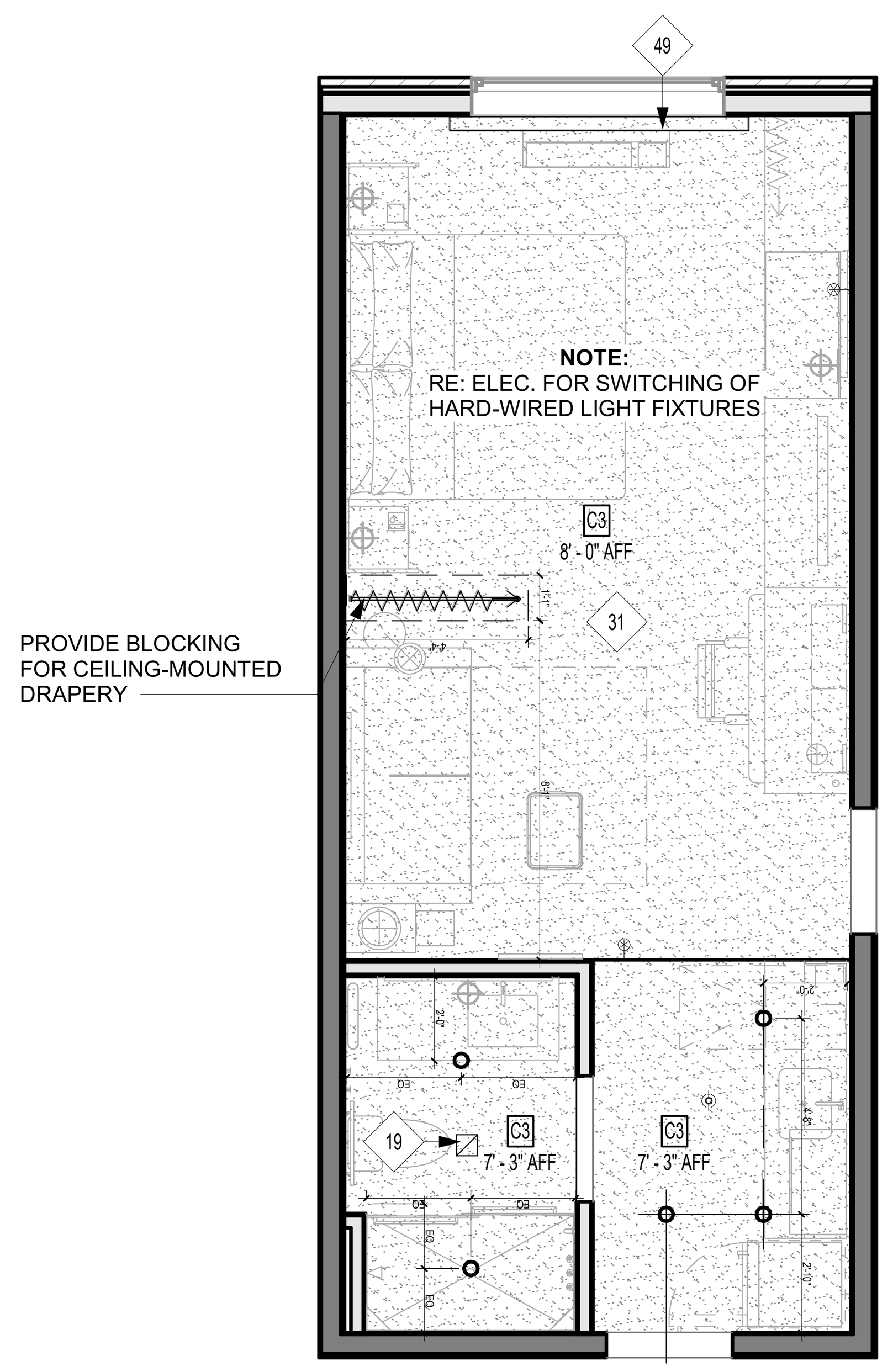
A3 KING STUDIO CONN. - WINDOW
1/2" = 1'-0"



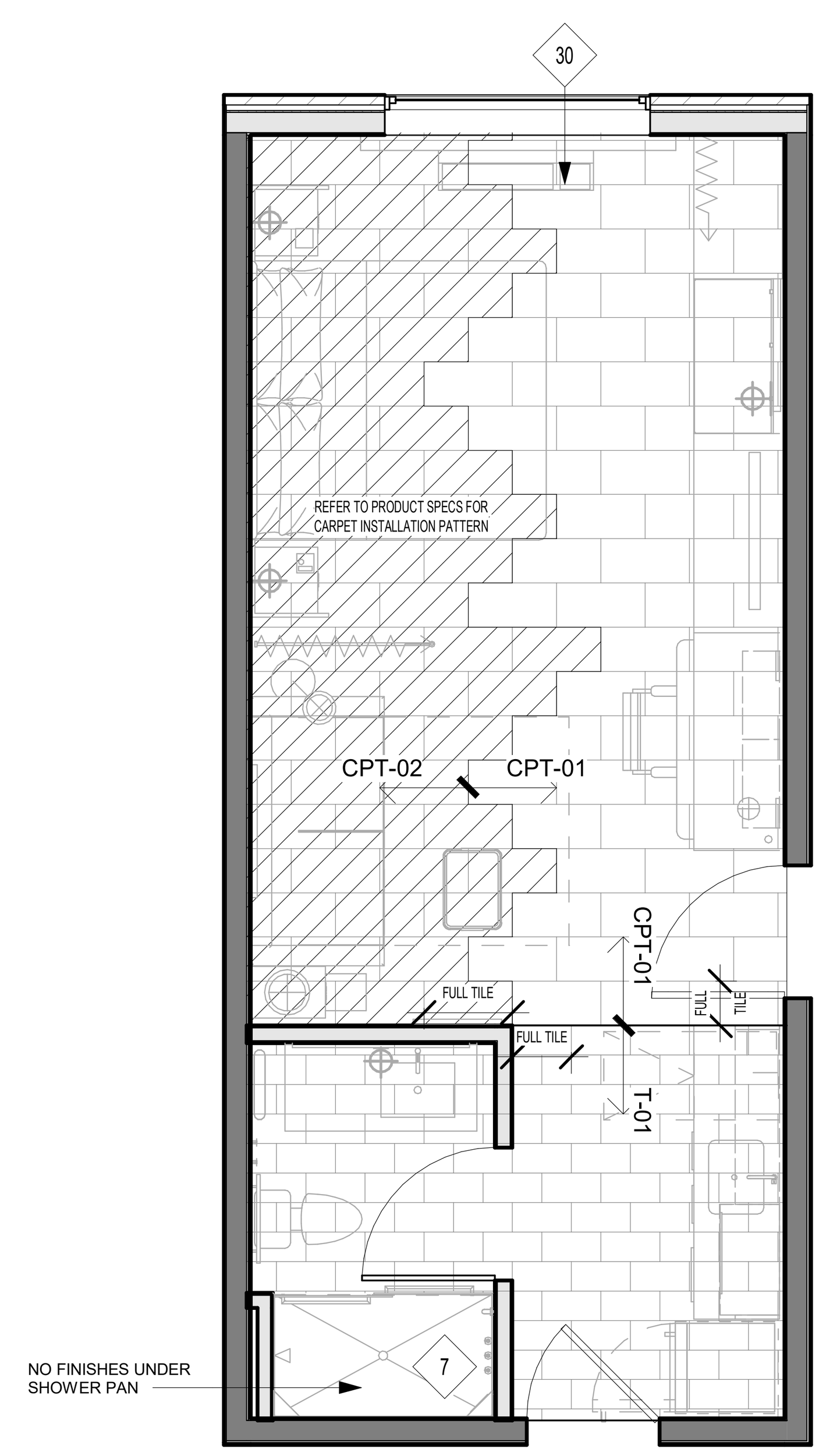
C2 KING STUDIO CONN. - HEADBOARD
1/2" = 1'-0"



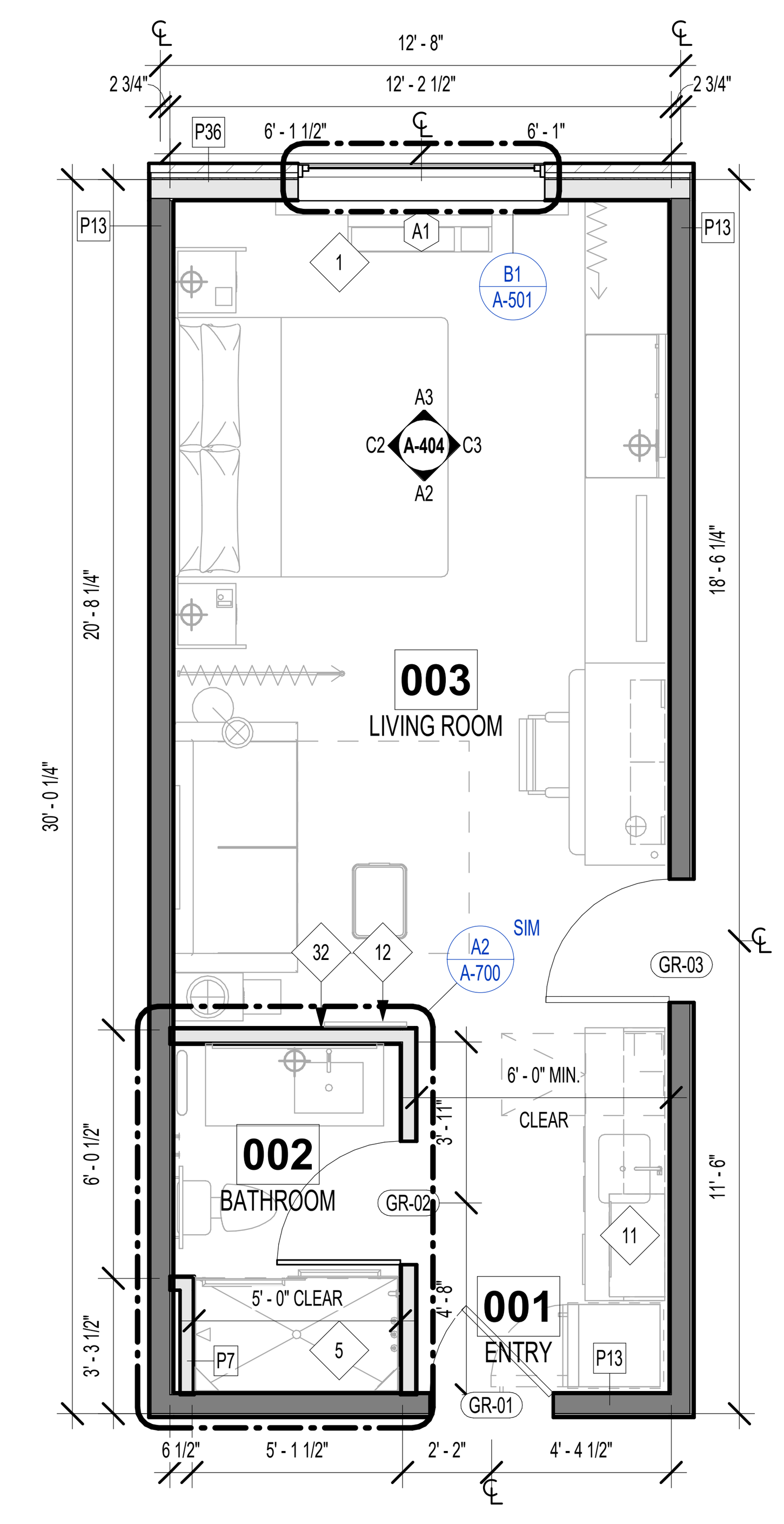
A2 KING STUDIO CONN. - ENTRY
1/2" = 1'-0"



C1 KING STUDIO SUITE - CONNECTOR - RCP
1/4" = 1'-0"



B1 KING STUDIO SUITE - CONNECTOR - FINISH PLAN
1/4" = 1'-0"



A1 KING STUDIO SUITE - CONNECTOR - FLOOR PLAN
1/4" = 1'-0"

REFERENCE G-003 FOR GENERAL NOTES
REFERENCE A-600 FOR DOOR & WINDOW SCHEDULES

UNIT PLAN LEGEND

- PARTIAL HEIGHT PARTITION
- P1 WALL (UNLESS NOTED OTHERWISE); SEE PARTITION SCHEDULE FOR ASSEMBLY INFORMATION
- PT-01 — FINISH TAG
- 101 — DOOR TAG
- ACCESSIBLE ROUTE (36" CLEAR; 32" MIN REQ'D @ DOOR OPENING PER ANSI A117.1)

UNIT FINISH LEGEND

- CPT-01 -- CARPET TILE
- CPT-02 -- CARPET TILE
- T-01 -- TILE

UNIT RCP LEGEND

- C3 - GWB ON METAL STUD
- RETURN GRILL
- 9' - 0" AFF — INDICATES CEILING HEIGHT, BELOW MATERIAL TAG

KEYNOTE LEGEND

1	PTAC UNIT
5	SHOWER ENCLOSURE W/TEMPERED GLASS DOOR
7	PREMANUFACTURED SHOWER PAN
10	DEDICATED CIRCUIT FOR DISHWASHER
11	RANGE TOP STYLE MICROWAVE AFFIXED TO WALL
12	MIRROR
14	SWITCH CONTROLLING GARBAGE DISPOSAL GANGED WITH DUPLEX - REFER TO HADG FOR ACCESSIBLE ROOM REQUIREMENTS
15	DEDICATED CIRCUIT FOR GARBAGE DISPOSAL
19	TOILET EXHAUST GRILLE
20	MAKE-UP AIR DIFFUSER
23	ROOM SIGNAGE
24	HARD WIRED THERMOSTAT FOR PTAC. MOUNTED 48" MAX TO TOP OF DEVICE. COMMUNICATION BETWEEN THERMOSTAT AND PTAC MAY BE WIRELESS.
25	EXTEND J-BOX, DEVICE & COVER PLATE FLUSH W/ MILLWORK BACK PANEL
28	DOORBELL ON/OF SWITCH (COMMUNICATION FEATURES ROOMS ONLY) SIGNAGE AS REQ'D.
30	EDGE OF PTAC ABOVE CARPET TILES
31	MIN. CEILING HEIGHT MUST BE MAINTAINED - REFER TO HOME 2 SUITES BY HILTON STANDARDS MANUAL
32	FRAMING SUBCONTRACTOR TO PROVIDE 3/4" F.R.T. PLYWOOD BLOCKING TO RECEIVE ITEM INDICATED - EXTEND FULL LENGTH OF OBJECT
36	OUTLET ABOVE FOR MICROWAVE - REFER TO ROOM ELEVATION MOUNT DEVICE HORIZONTALLY--FACE PLATE TO BE WHITE
41	GRAPHIC ART. REFER TO ACCESSORIES LEGEND & CONSTRUCTION PLAN
44	WAP IN 3-GANG BOX MOUNTED VERTICALLY UNDER DESK. MAINTAIN 6" BETWEEN ALL BOXES, TYP ALL GUESTROOMS. COORDINATE WAP LOCATION WITH CASEGOODS TO AVOID CONFLICTS. VISIT CONNECTEDROOM.HILTON.COM FOR CURRENT WIRELESS INTERNET REQ'S AND LIST OF APPROVED INTEGRATORS.
45	EACH CABLE MUST HOMERUN BETWEEN THE GUESTROOM AND THE IDF ON EACH FLOOR. VISIT CONNECTEDROOM.HILTON.COM FOR CURRENT REQUIREMENTS AND OPTIONS.
46 (2)	WIRED DATA CONNECTION FOR GUEST USE: PROVIDE CAT6 RJ-45 ABOVE THE DESK (36" AFF), RUN IN SMURF TUBE IN THE WALL TO THE WAP UNDER THE DESK.
47	TV CONNECTIONS FOR FREE-TO-GUEST CONTENT: A) NO SMART TV:COAX CABLE BEHIND TV. CAT6 RJ-45 JACK BEHIND TV, RUN IN SMURF TUBE IN WALL TO WAP UNDER DESK. PATCH CORD TO EDGE CONTROLLER FOR CONNECTED ROOM. MIN. 6" CLEARANCE FROM WALL BOXES - OR - B) SMART TV-INTERNET PROTOCOL TELEVISION (IPTV); COAX NOT REQ'D. CAT6 RJ-45 JACK BEHIND TV RUN IN SMURF TUBE IN WALL TO WAP UNDER DESK. PATCH CORD TO EDGE CONTROLLER FOR CONNECTED ROOM. CAT6 RJ-45 JACK BEHIND TV IN ONE-BEDROOM TV. MIN. 6" CLEARANCE FROM WALL BOXES. VISIT HILTONHDTV.COM FOR ADDITIONAL INFORMATION.
49	HARDWIRED BLACK OUT ROLLER SHADE WITH NO EXPOSED WIRES

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STATE OF MISSOURI
DAVID EUGENE HENDRIKSE
NUMBER A-7305
REGISTERED ARCHITECT
06/14/2024

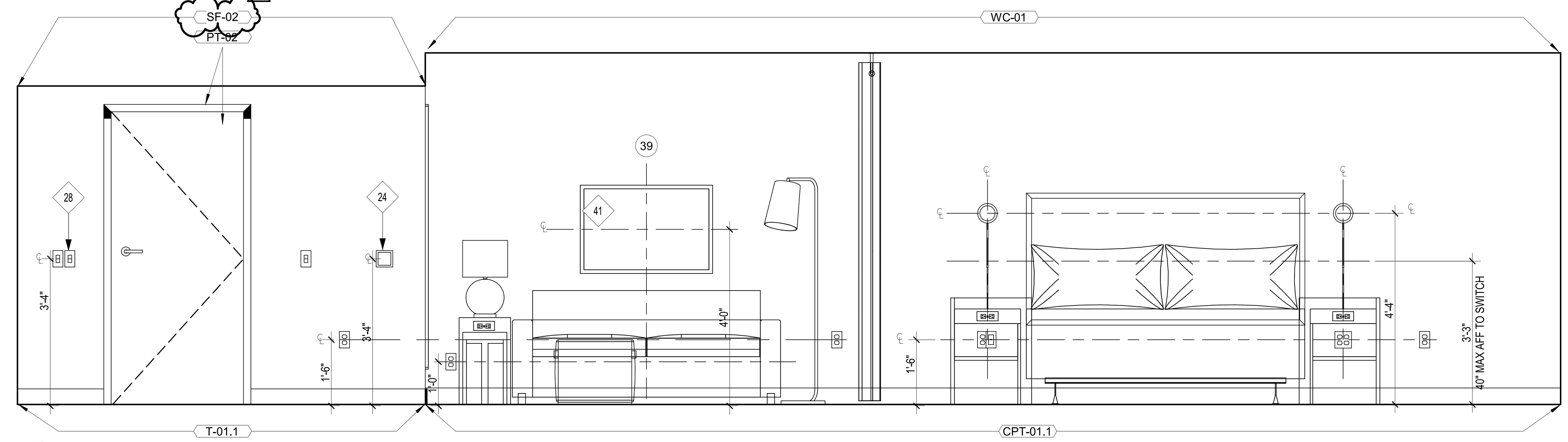
HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
KING STUDIO SUITE - CONNECTOR

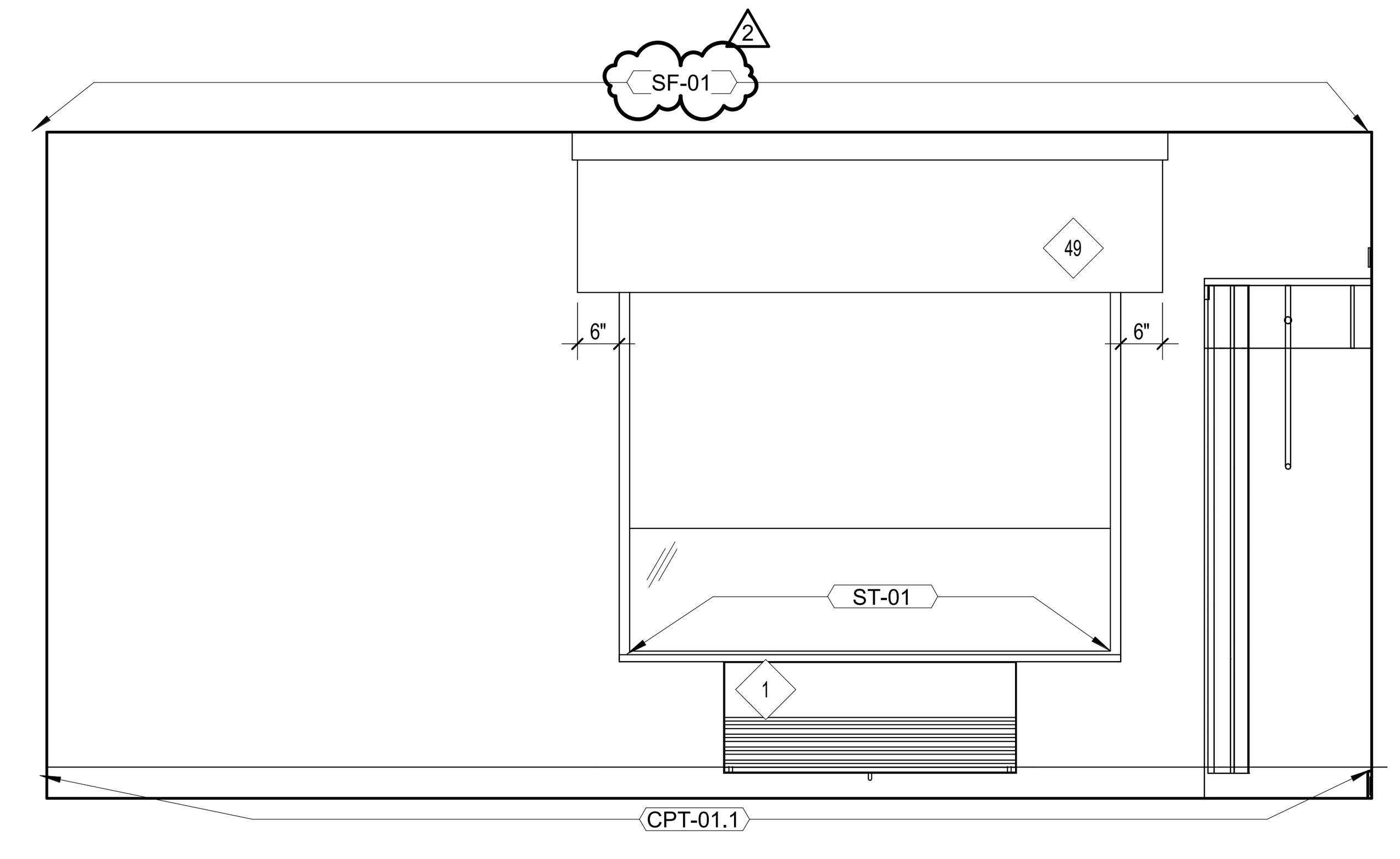
PROJECT NUMBER: 22023

SHEET NUMBER:

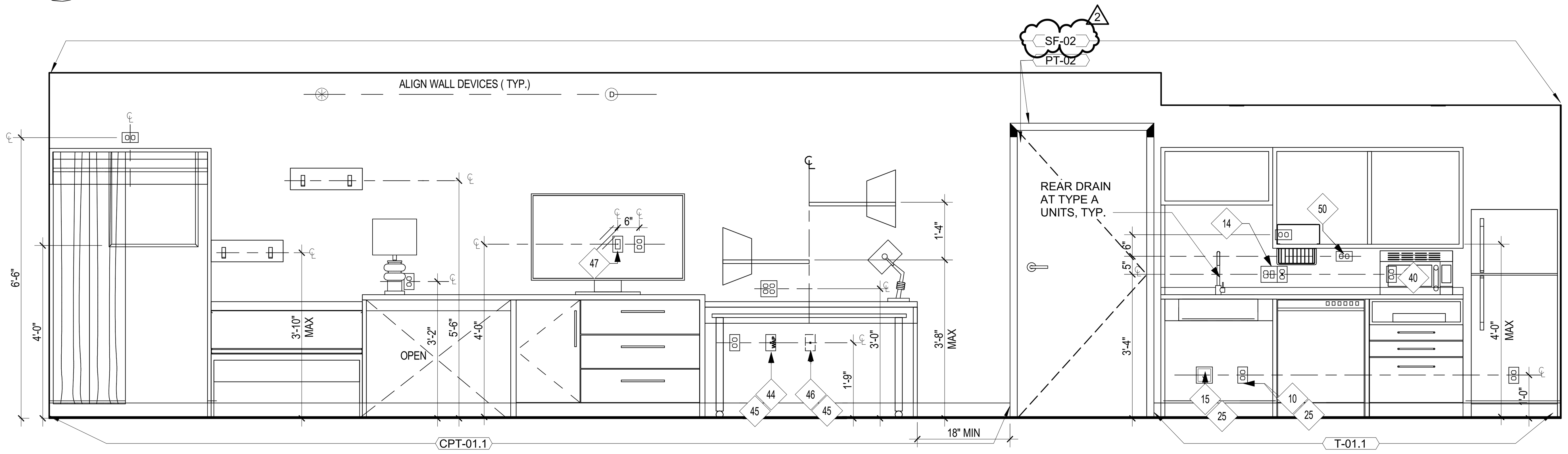
A-404



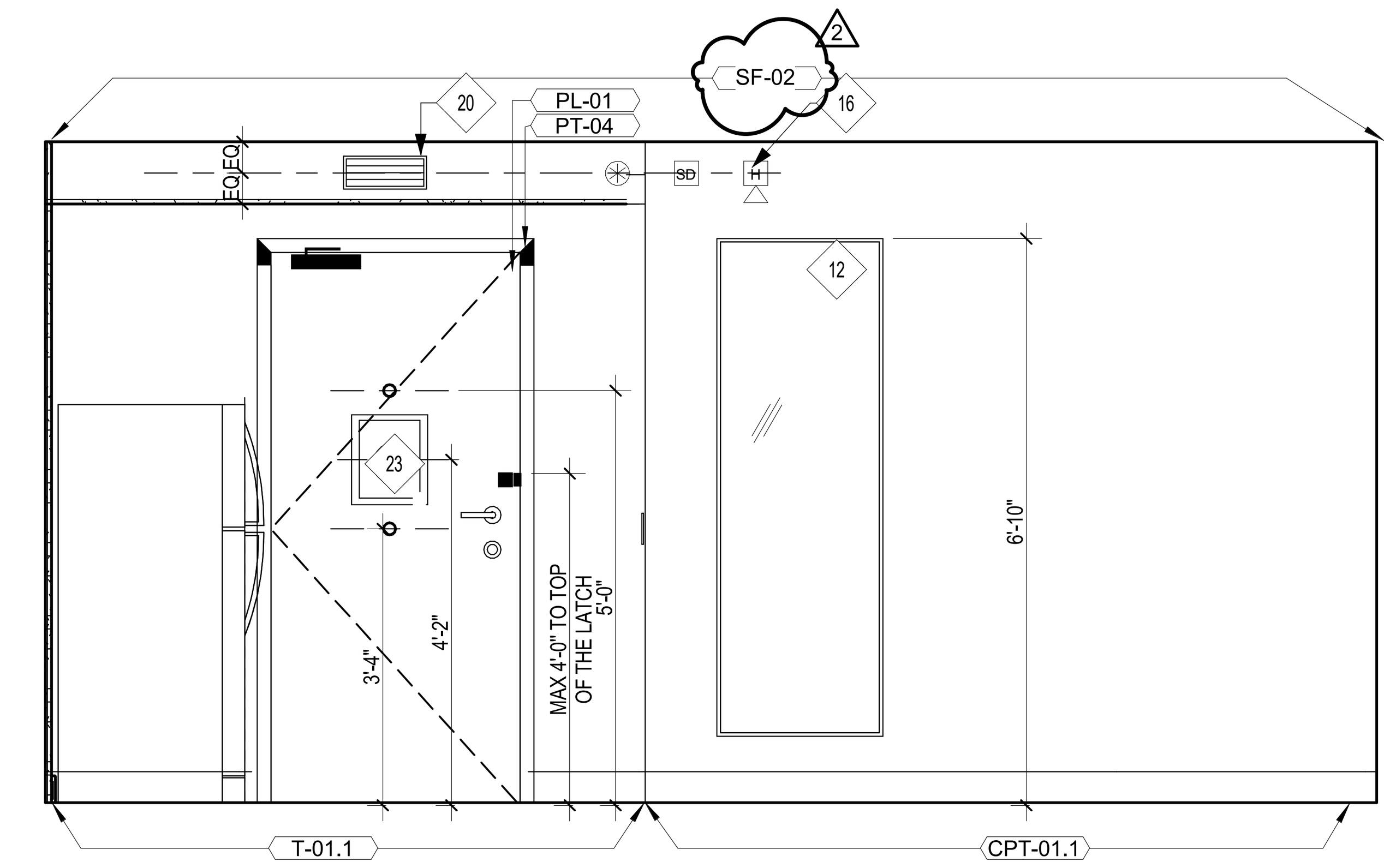
D3 KING STUDIO ACC. - HEADBOARD WALL
1/2" = 1'-0"



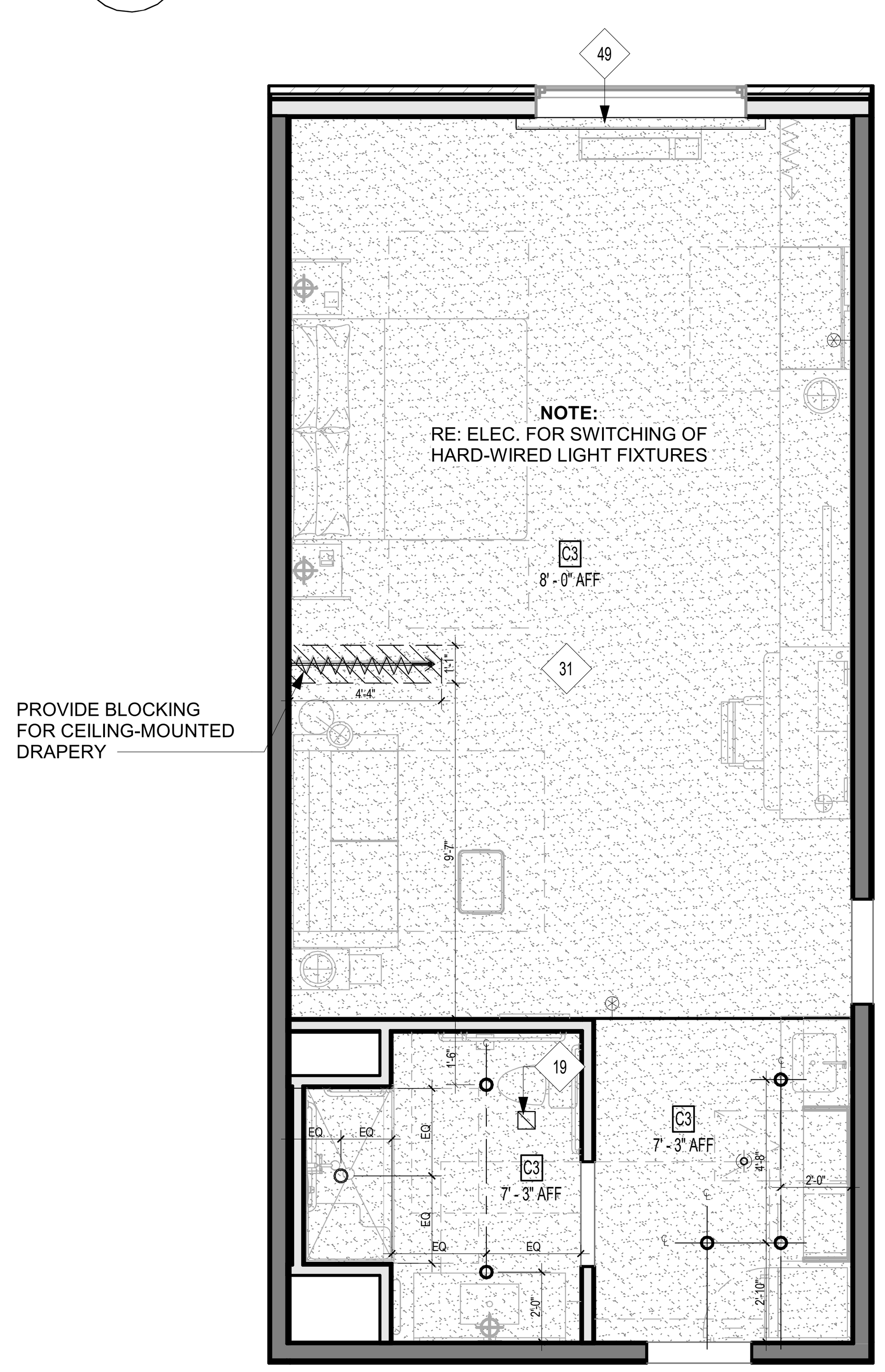
A3 KING STUDIO ACC. - WINDOW
1/2" = 1'-0"



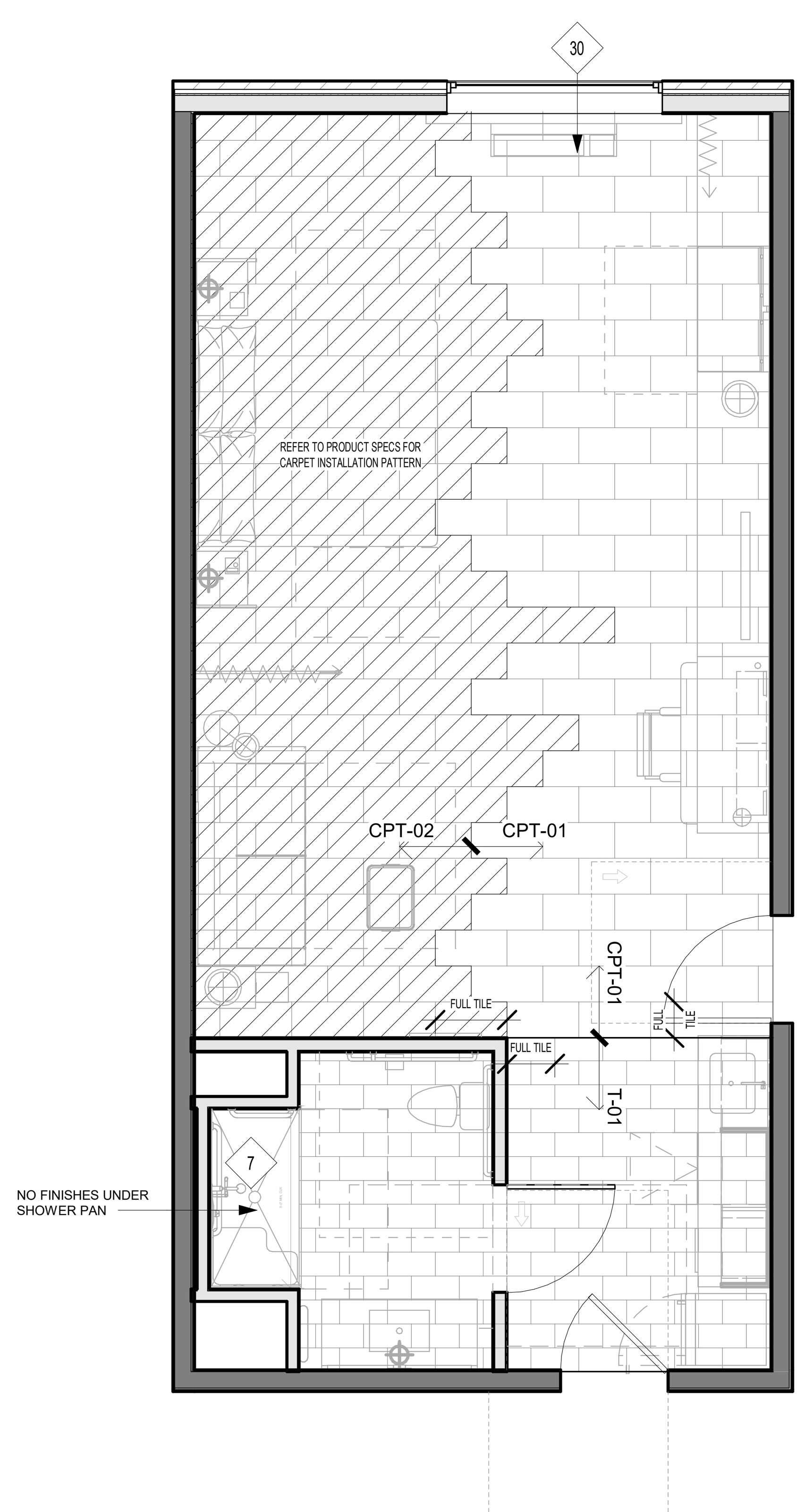
D2 KING STUDIO ACC. - WORKING WALL
1/2" = 1'-0"



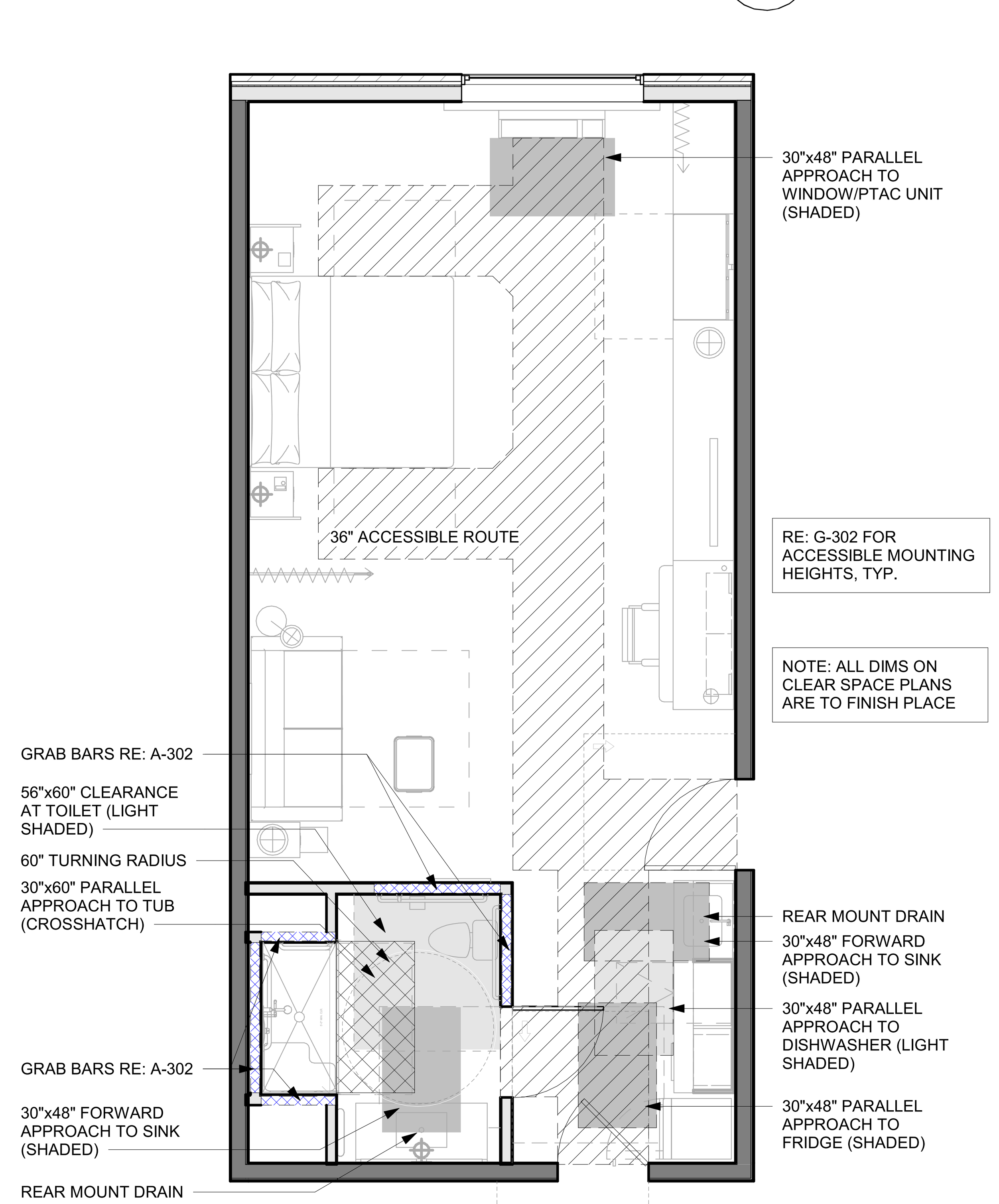
A2 KING STUDIO ACC. - ENTRY
1/2" = 1'-0"



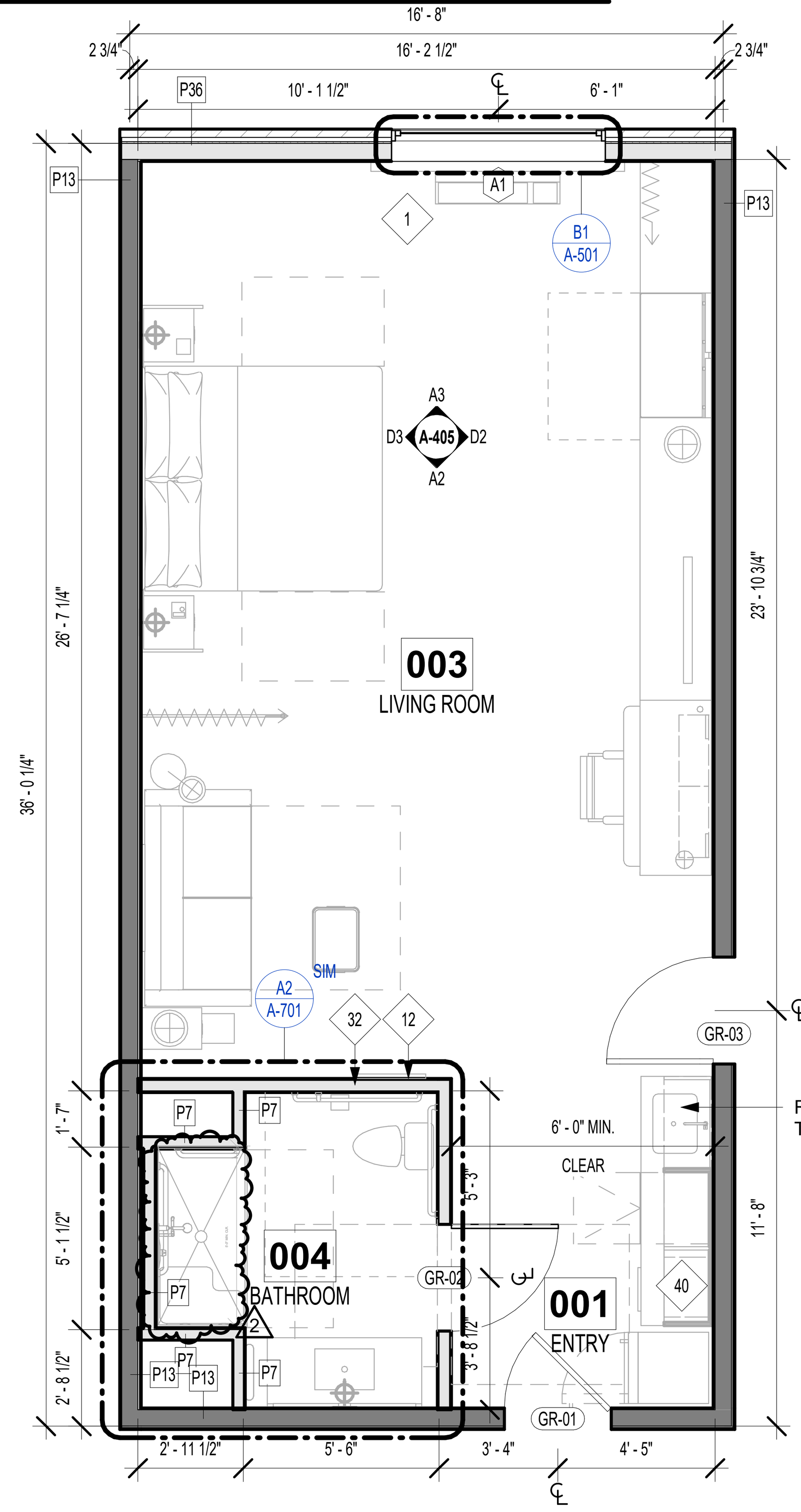
D1 KING STUDIO SUITE - ACCESSIBLE - RCP
1/4" = 1'-0"



C1 KING STUDIO SUITE - ACCESSIBLE - FINISH PLAN
1/4" = 1'-0"



B1 KING STUDIO SUITE - ACCESSIBLE - CLEAR SPACE PLAN
1/4" = 1'-0"



A1 KING STUDIO SUITE - ACCESSIBLE - FLOOR PLAN
1/4" = 1'-0"

REFERENCE G-003 FOR GENERAL NOTES
REFERENCE A-600 FOR DOOR & WINDOW SCHEDULES

UNIT PLAN LEGEND

	PARTIAL HEIGHT PARTITION
	P1 WALL (UNLESS NOTED OTHERWISE); SEE PARTITION SCHEDULE FOR ASSEMBLY INFORMATION
PT-01	FINISH TAG
101	DOOR TAG
	ACCESSIBLE ROUTE (36" CLEAR; 32" MIN REQ'D @ DOOR OPENING PER ANSI A117.1)

UNIT FINISH LEGEND

	CPT-01 -- CARPET TILE
	CPT-02 -- CARPET TILE
	T-01 -- TILE

UNIT RCP LEGEND

	C3 - GWB ON METAL STUD
	RETURN GRILL
9' - 0" AFF	INDICATES CEILING HEIGHT, BELOW MATERIAL TAG

KEYNOTE LEGEND

1	PTAC UNIT
7	PREMANUFACTURED SHOWER PAN
10	DEDICATED CIRCUIT FOR DISHWASHER
12	MIRROR
14	SWITCH CONTROLLING GARBAGE DISPOSAL GANGED WITH DUPLEX - REFER TO HADG FOR ACCESSIBLE ROOM REQUIREMENTS
15	DEDICATED CIRCUIT FOR GARBAGE DISPOSAL
16	FIRE HORN IN STANDARD ROOMS. FIRE HORN/STROBE IN COMMUNICATION FEATURES ROOMS
19	TOILET EXHAUST GRILLE
20	MAKE-UP AIR DIFFUSER
23	ROOM SIGNAGE
24	HARD WIRED THERMOSTAT FOR PTAC. MOUNTED 48" MAX TO TOP OF DEVICE. COMMUNICATION BETWEEN THERMOSTAT AND PTAC MAY BE WIRELESS.
25	EXTEND J-BOX, DEVICE & COVER PLATE FLUSH W/ MILLWORK BACK PANEL
28	DOORBELL ON/OF SWITCH (COMMUNICATION FEATURES ROOMS ONLY) SIGNAGE AS REQ'D.
30	EDGE OF PTAC ABOVE CARPET TILES
31	MIN. CEILING HEIGHT MUST BE MAINTAINED - REFER TO HOME 2 SUITES BY HILTON STANDARDS MANUAL
32	FRAMING SUBCONTRACTOR TO PROVIDE 3/4" F.R.T. PLYWOOD BLOCKING TO RECEIVE ITEM INDICATED - EXTEND FULL LENGTH OF OBJECT
40	COUNTERTOP MICROWAVE
41	GRAPHIC ART. REFER TO ACCESSORIES LEGEND & CONSTRUCTION PLAN
44	WAP IN 3-GANG BOX MOUNTED VERTICALLY UNDER DESK. MAINTAIN 6" BETWEEN ALL BOXES, TYP ALL GUESTROOMS. COORDINATE WAP LOCATION WITH CASEGOODS TO AVOID CONFLICTS. VISIT CONNECTEDROOM.HILTON.COM FOR CURRENT WIRELESS INTERNET REQ'S AND LIST OF APPROVED INTEGRATORS.
45	EACH CABLE MUST HOMERUN BETWEEN THE GUESTROOM AND THE IDF ON EACH FLOOR. VISIT CONNECTEDROOM.HILTON.COM FOR CURRENT REQUIREMENTS AND OPTIONS.
46 (2)	WIRED DATA CONNECTION FOR GUEST USE: PROVIDE CAT6 RJ-45 ABOVE THE DESK (36" AFF), RUN IN SMURF TUBE IN THE WALL TO THE WAP UNDER THE DESK.
47	TV CONNECTIONS FOR FREE-TO-GUEST CONTENT: A) NO SMART TV:COAX CABLE BEHIND TV. CAT6 RJ-45 JACK BEHIND TV, RUN IN SMURF TUBE IN WALL TO WAP UNDER DESK. PATCH CORD TO EDGE CONTROLLER FOR CONNECTED ROOM. MIN. 6" CLEARANCE FROM WALL BOXES - OR - B) SMART TV-INTERNET PROTOCOL TELEVISION (IPTV); COAX NOT REQ'D. CAT6 RJ-45 JACK BEHIND TV RUN IN SMURF TUBE IN WALL TO WAP UNDER DESK. PATCH CORD TO EDGE CONTROLLER FOR CONNECTED ROOM. CAT6 RJ-45 JACK BEHIND TV IN ONE-BEDROOM TV. MIN. 6" CLEARANCE FROM WALL BOXES. VISIT HILTONHDTV.COM FOR ADDITIONAL INFORMATION.
49	HARDWIRED BLACK OUT ROLLER SHADE WITH NO EXPOSED WIRES
50	PROVIDE OUTLET FOR UNDERCABINET LIGHTING BY OTHERS

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STATE OF MISSOURI
DAVID EUGENE HENDRIKSE
NUMBER
REGISTERED ARCHITECT
06/14/2024

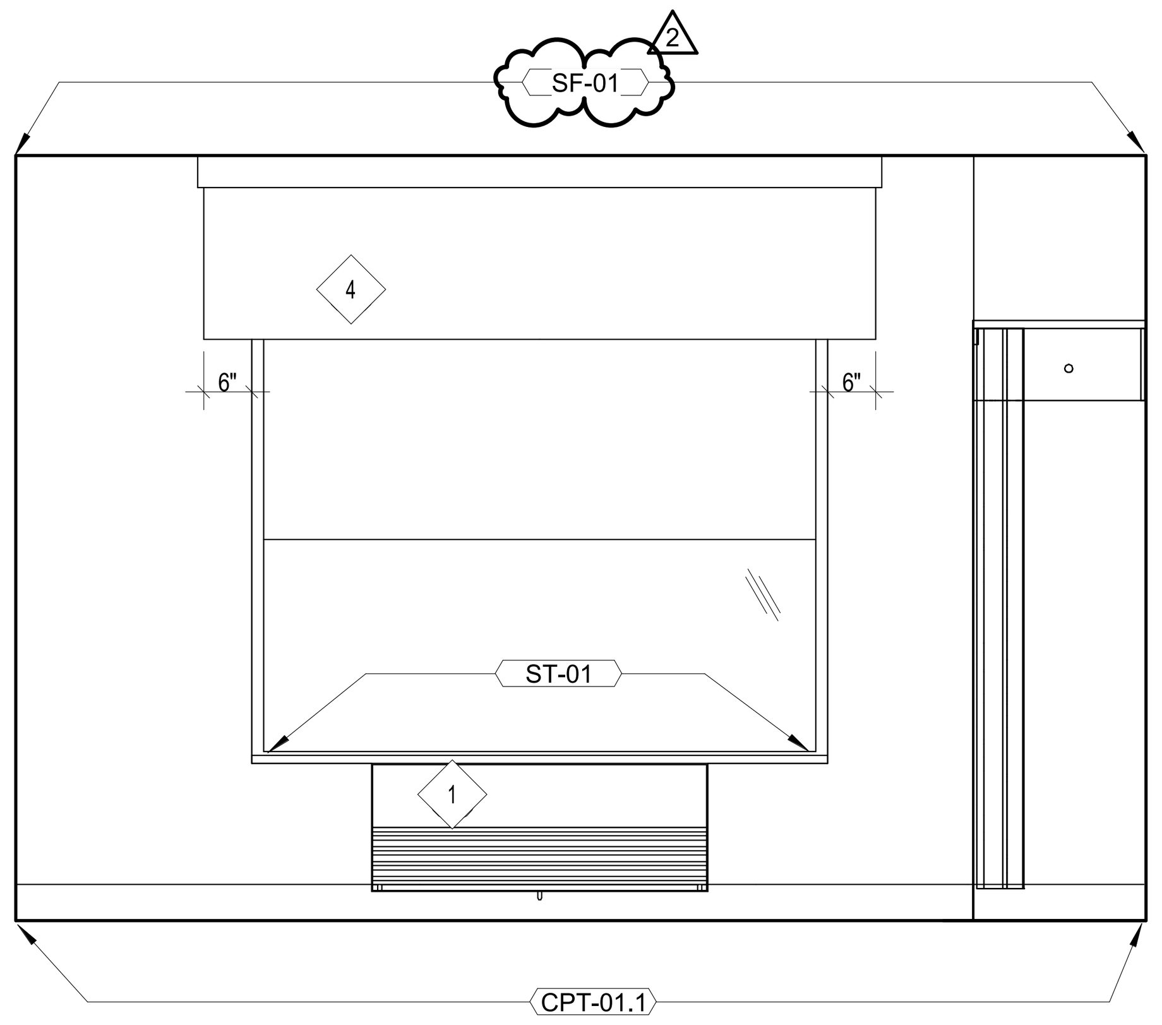
HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
KING STUDIO SUITE - ACCESSIBLE

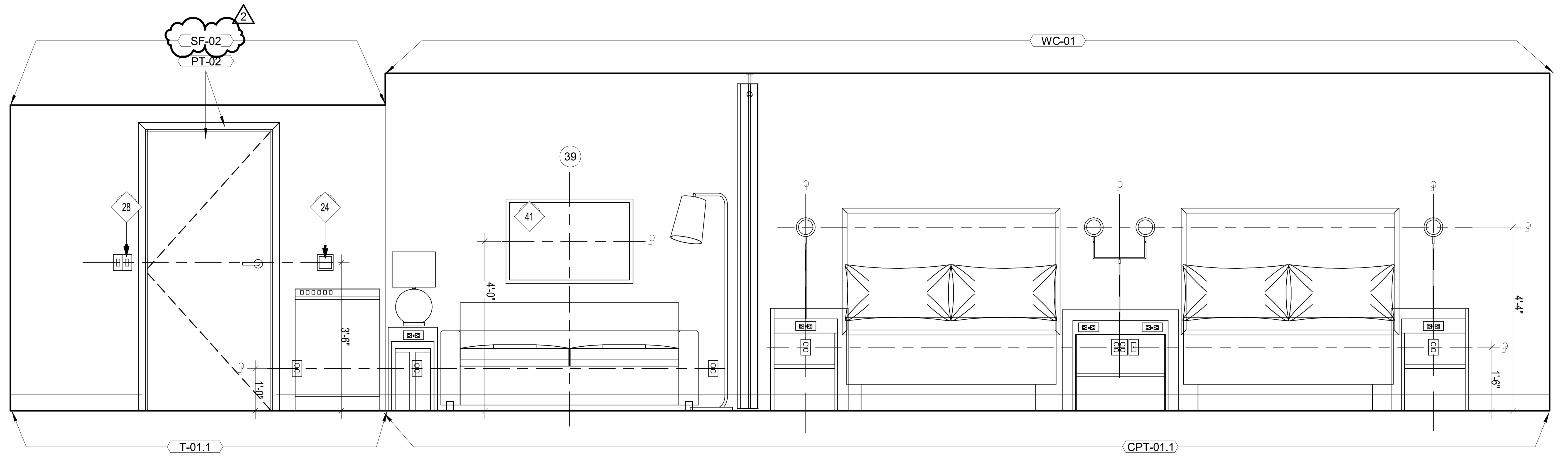
PROJECT NUMBER: 22023

SHEET NUMBER:

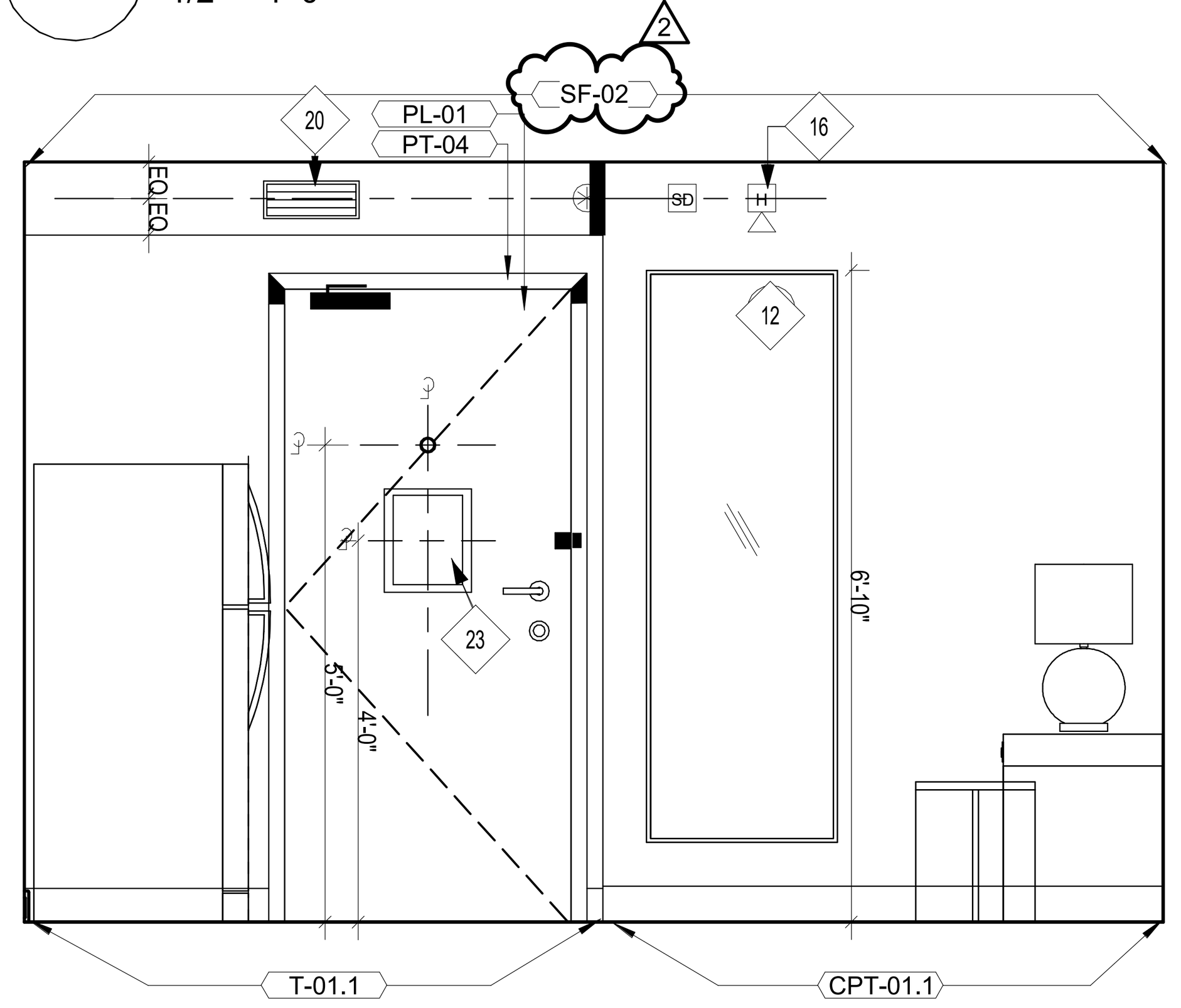
A-405



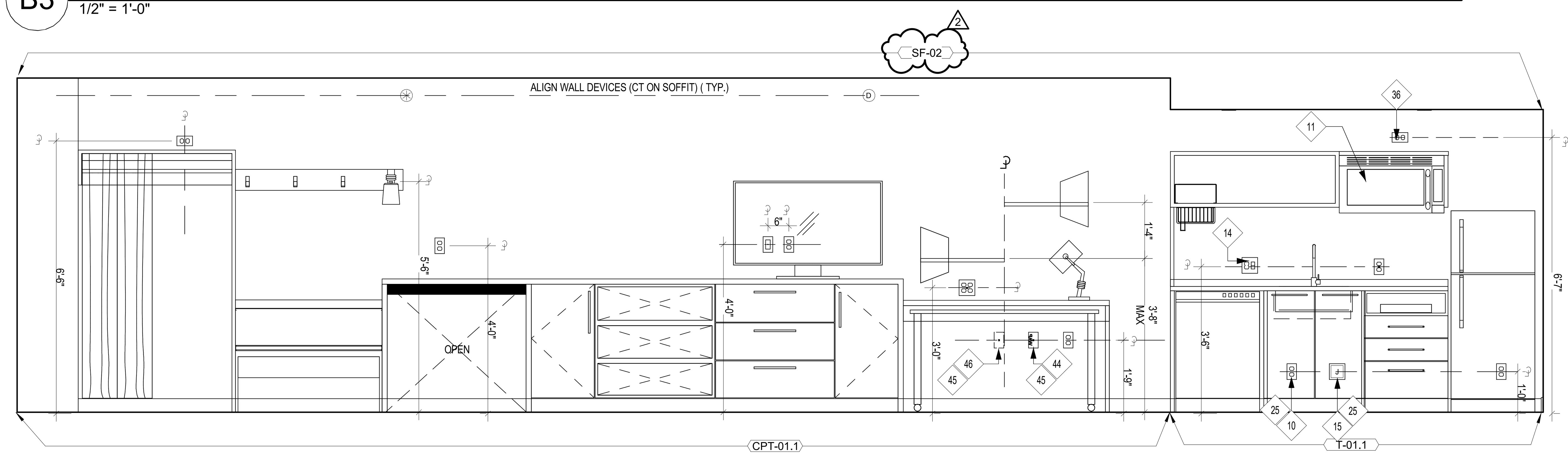
C3 QQ STUDIO - WINDOW
1/2" = 1'-0"



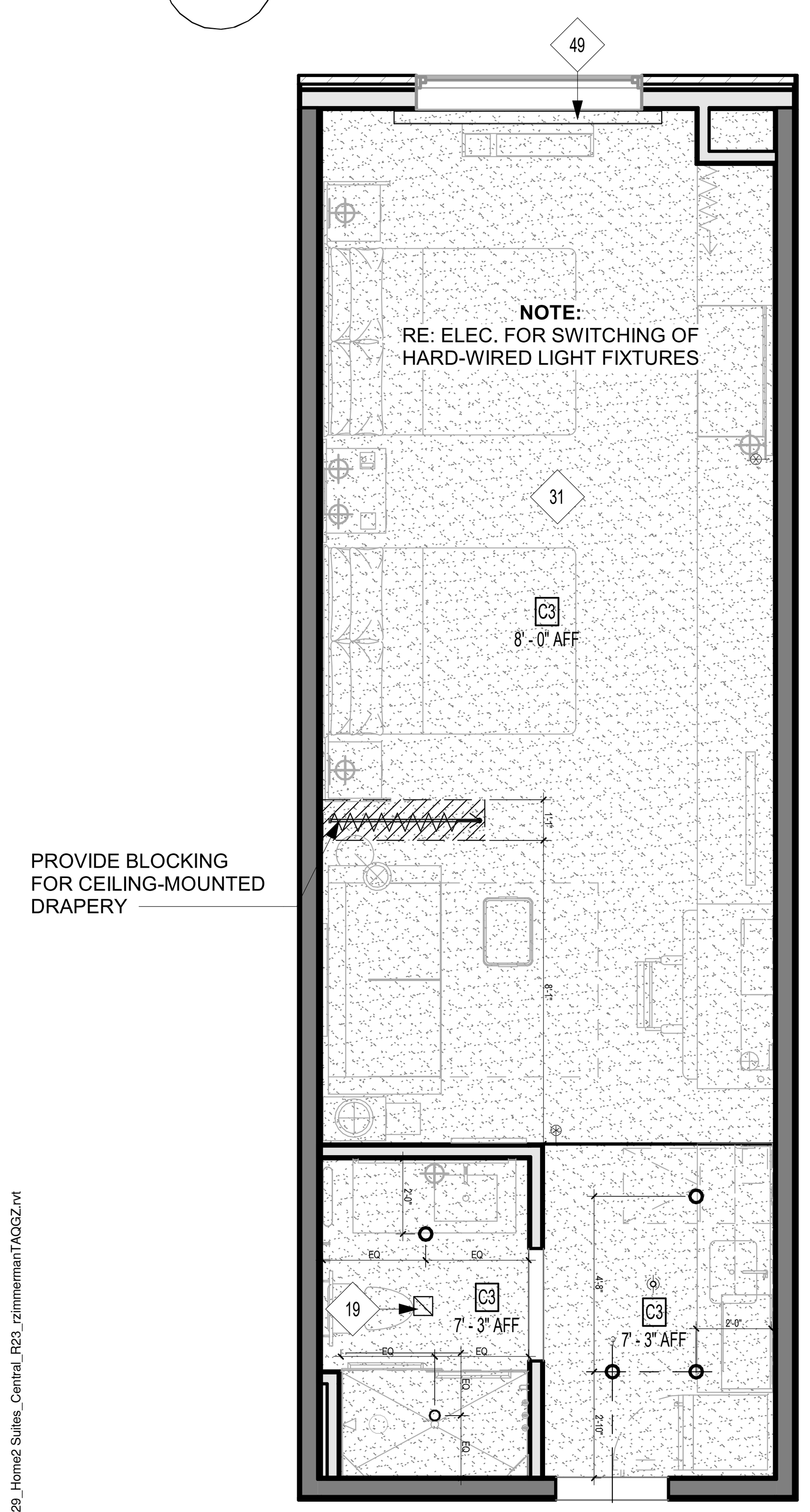
B3 QQ STUDIO - HEADBOARD WALL
1/2" = 1'-0"



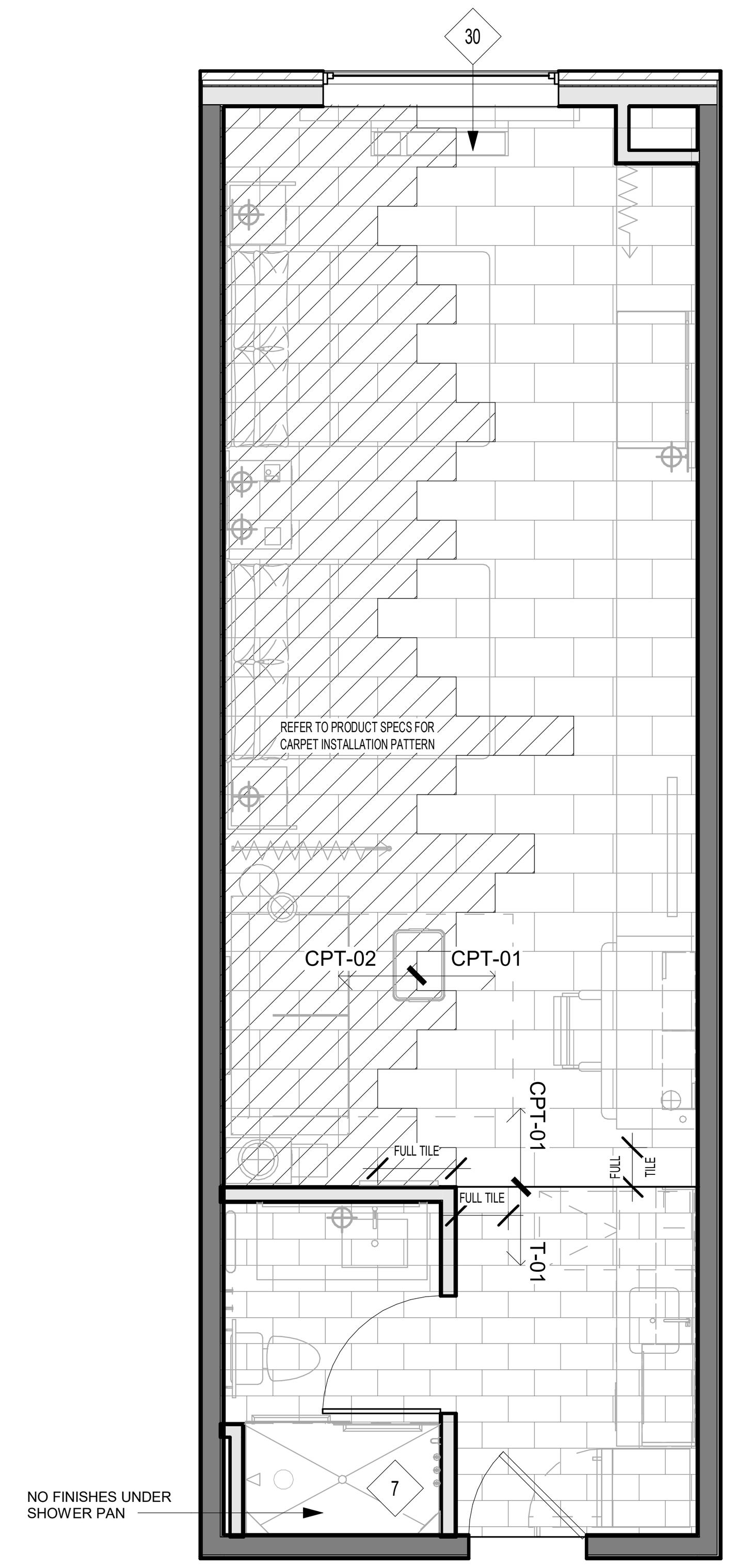
C2 QQ STUDIO - ENTRY
1/2" = 1'-0"



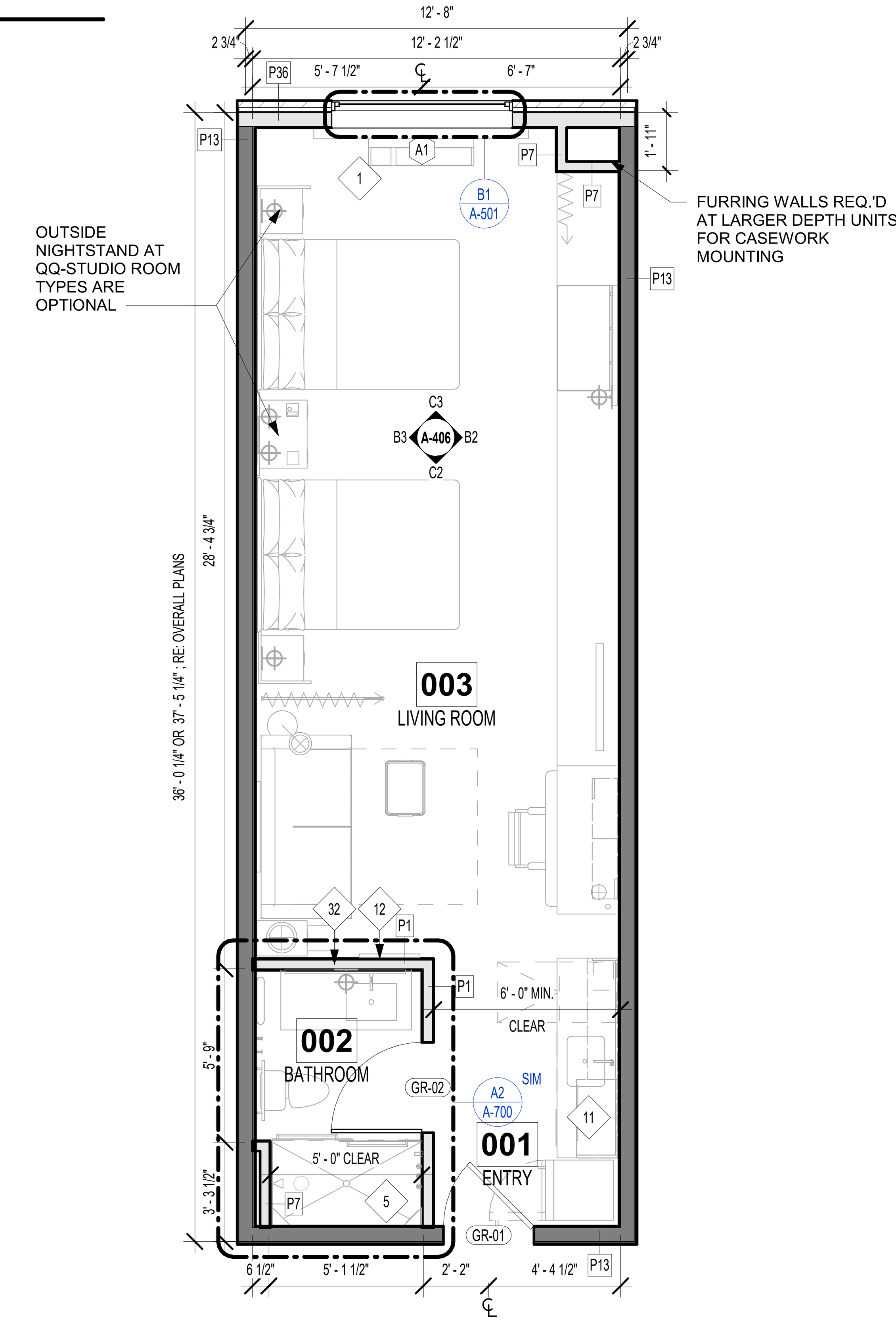
B2 QQ STUDIO - WORKING WALL
1/2" = 1'-0"



C1 QUEEN QUEEN STUDIO SUITE - RCP
1/4" = 1'-0"



B1 QUEEN QUEEN STUDIO SUITE - FINISH PLAN
1/4" = 1'-0"



A1 QUEEN QUEEN STUDIO SUITE - FLOOR PLAN
1/4" = 1'-0"

REFERENCE G-003 FOR GENERAL NOTES
REFERENCE A-600 FOR DOOR & WINDOW SCHEDULES

UNIT PLAN LEGEND

PARTIAL HEIGHT PARTITION

P1 WALL (UNLESS NOTED OTHERWISE); SEE PARTITION SCHEDULE FOR ASSEMBLY INFORMATION

PT-01 FINISH TAG

101 DOOR TAG

ACCESSIBLE ROUTE (36" CLEAR; 32" MIN REQ'D @ DOOR OPENING PER ANSI A117.1)

UNIT FINISH LEGEND

CPT-01 -- CARPET TILE

CPT-02 -- CARPET TILE

T-01 -- TILE

UNIT RCP LEGEND

C3 - GWB ON METAL STUD

RETURN GRILL

9' - 0" AFF INDICATES CEILING HEIGHT, BELOW MATERIAL TAG

KEYNOTE LEGEND

1	PTAC UNIT
4	MANUAL BLACK OUT ROLLER SHADE TO EXTEND 6" BEYOND WINDOW OPENING; SHEER ROLLER SHADE TO BE MOUNTED INSIDE WINDOW OPENING
5	SHOWER ENCLOSURE W/TEMPERED GLASS DOOR
7	PREMANUFACTURED SHOWER PAN
10	DEDICATED CIRCUIT FOR DISHWASHER
11	RANGE TOP STYLE MICROWAVE AFFIXED TO WALL
12	MIRROR
14	SWITCH CONTROLLING GARBAGE DISPOSAL GANGED WITH DUPLEX - REFER TO HADG FOR ACCESSIBLE ROOM REQUIREMENTS
15	DEDICATED CIRCUIT FOR GARBAGE DISPOSAL
16	FIRE HORN IN STANDARD ROOMS. FIRE HORN/STROBE IN COMMUNICATION FEATURES ROOMS
19	TOILET EXHAUST GRILLE
20	MAKE-UP AIR DIFFUSER
23	ROOM SIGNAGE
24	HARD WIRED THERMOSTAT FOR PTAC. MOUNTED 48" MAX TO TOP OF DEVICE. COMMUNICATION BETWEEN THERMOSTAT AND PTAC MAY BE WIRELESS.
25	EXTEND J-BOX, DEVICE & COVER PLATE FLUSH W/ MILLWORK BACK PANEL
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31	MIN. CEILING HEIGHT MUST BE MAINTAINED - REFER TO HOME 2 SUITES BY HILTON STANDARDS MANUAL
32	FRAMING SUBCONTRACTOR TO PROVIDE 3/4" F.R.T. PLYWOOD BLOCKING TO RECEIVE ITEM INDICATED - EXTEND FULL LENGTH OF OBJECT
36	OUTLET ABOVE FOR MICROWAVE - REFER TO ROOM ELEVATION MOUNT DEVICE HORIZONTALLY--FACE PLATE TO BE WHITE
41	GRAPHIC ART. REFER TO ACCESSORIES LEGEND & CONSTRUCTION PLAN
44	WAP IN 3-GANG BOX MOUNTED VERTICALLY UNDER DESK. MAINTAIN 6" BETWEEN ALL BOXES, TYP ALL GUESTROOMS. COORDINATE WAP LOCATION WITH CASEGOODS TO AVOID CONFLICTS. VISIT CONNECTEDROOM.HILTON.COM FOR CURRENT WIRELESS INTERNET REQ'S AND LIST OF APPROVED INTEGRATORS.
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46 (2)	WIRED DATA CONNECTION FOR GUEST USE: PROVIDE CAT6 RJ-45 ABOVE THE DESK (36" AFF), RUN IN SMURF TUBE IN THE WALL TO THE WAP UNDER THE DESK.
49	HARDWIRED BLACK OUT ROLLER SHADE WITH NO EXPOSED WIRES

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STATE OF MISSOURI
DAVID EUGENE HENDRICKSE
NUMBER A-7305
REGISTERED ARCHITECT
06/14/2024

HOME2 SUITES BY HILTON

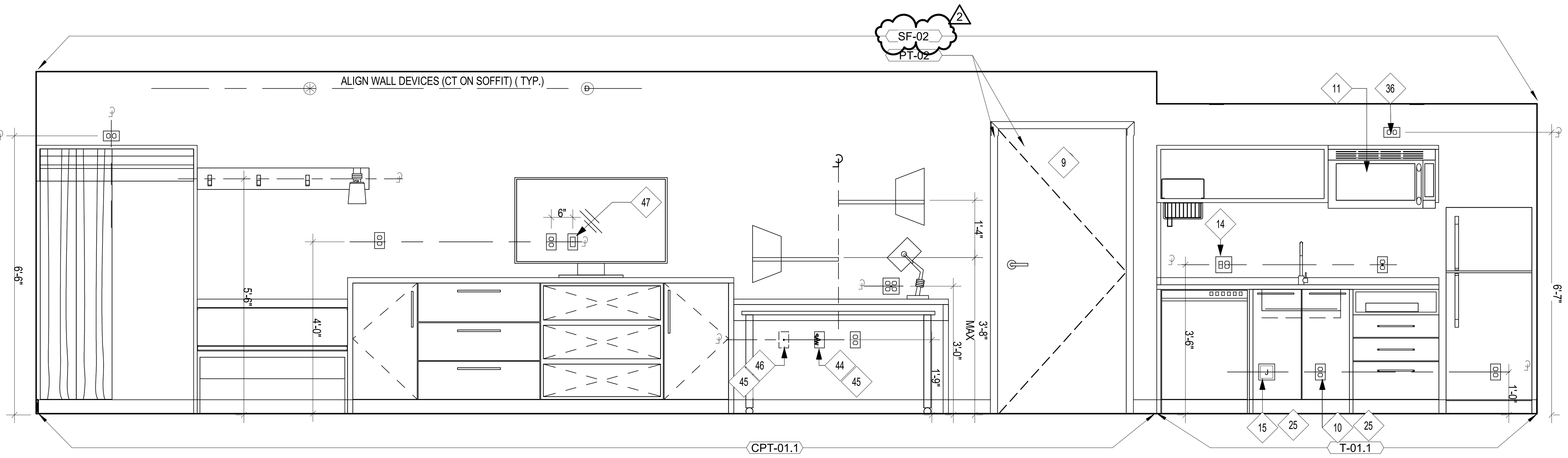
LEE'S SUMMIT, MO

SHEET TITLE
QUEEN QUEEN STUDIO SUITE

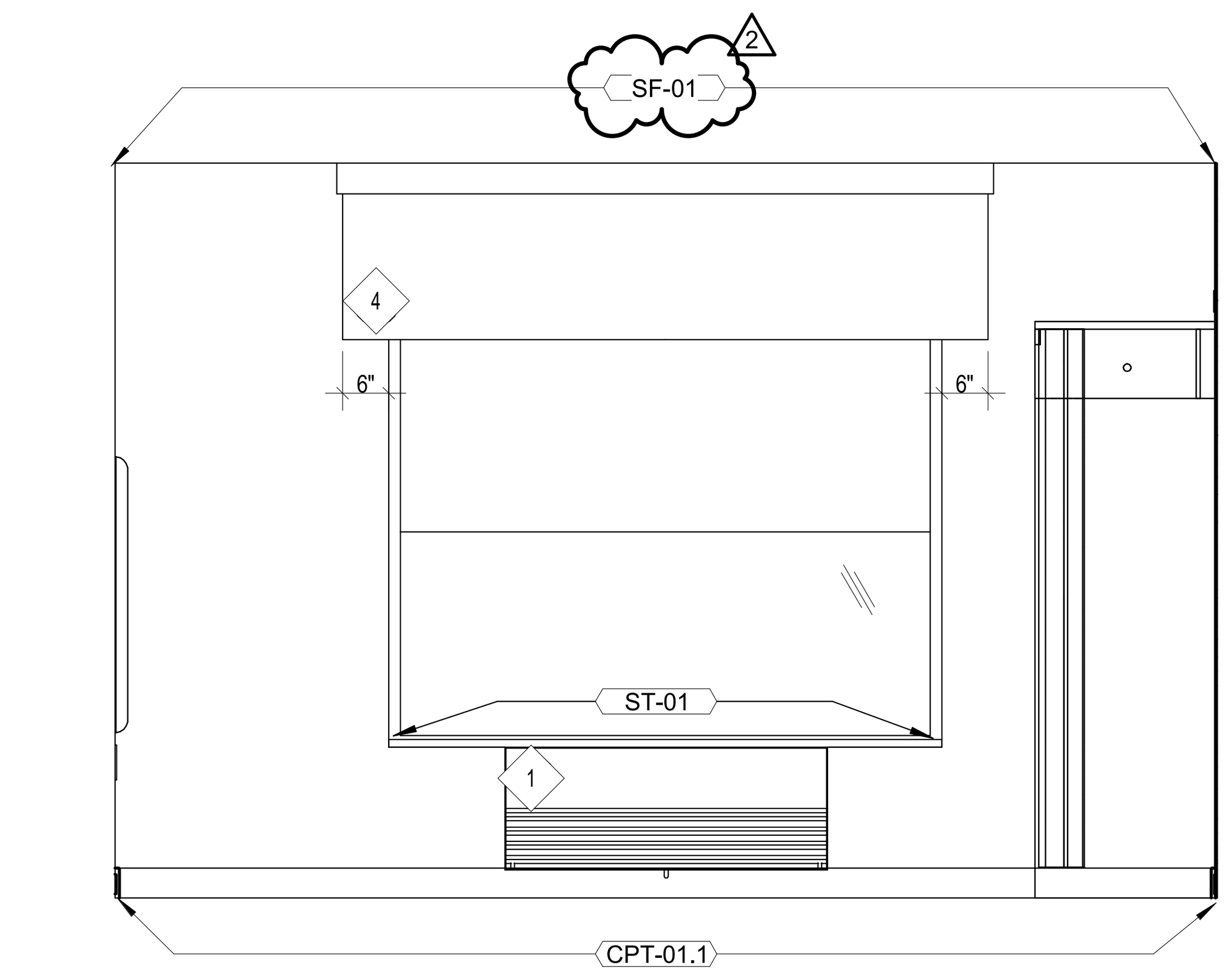
PROJECT NUMBER: 22023

SHEET NUMBER:

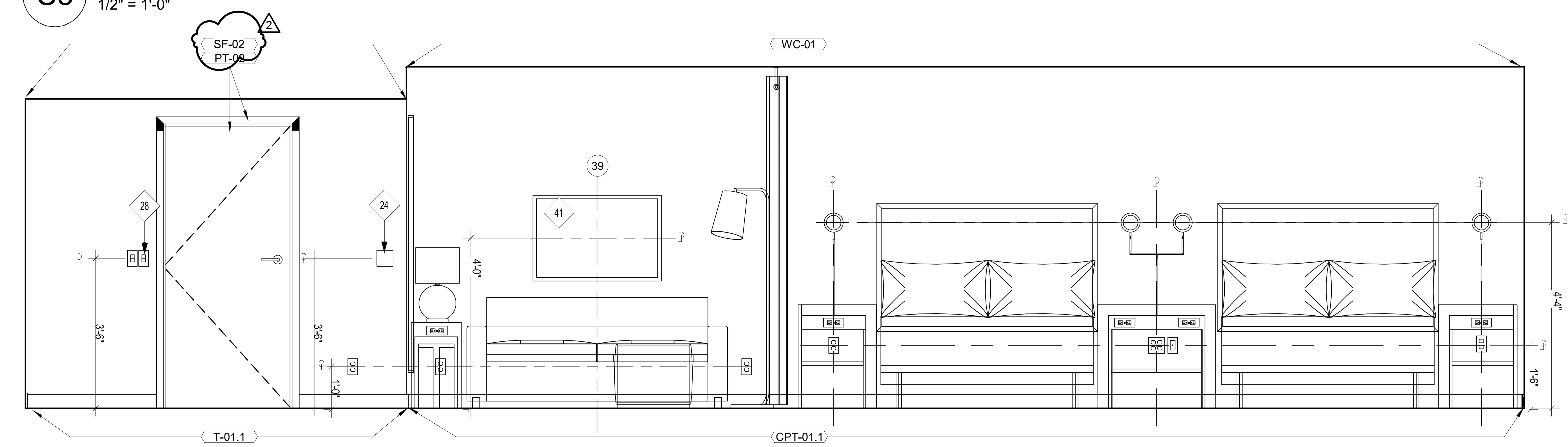
A-406



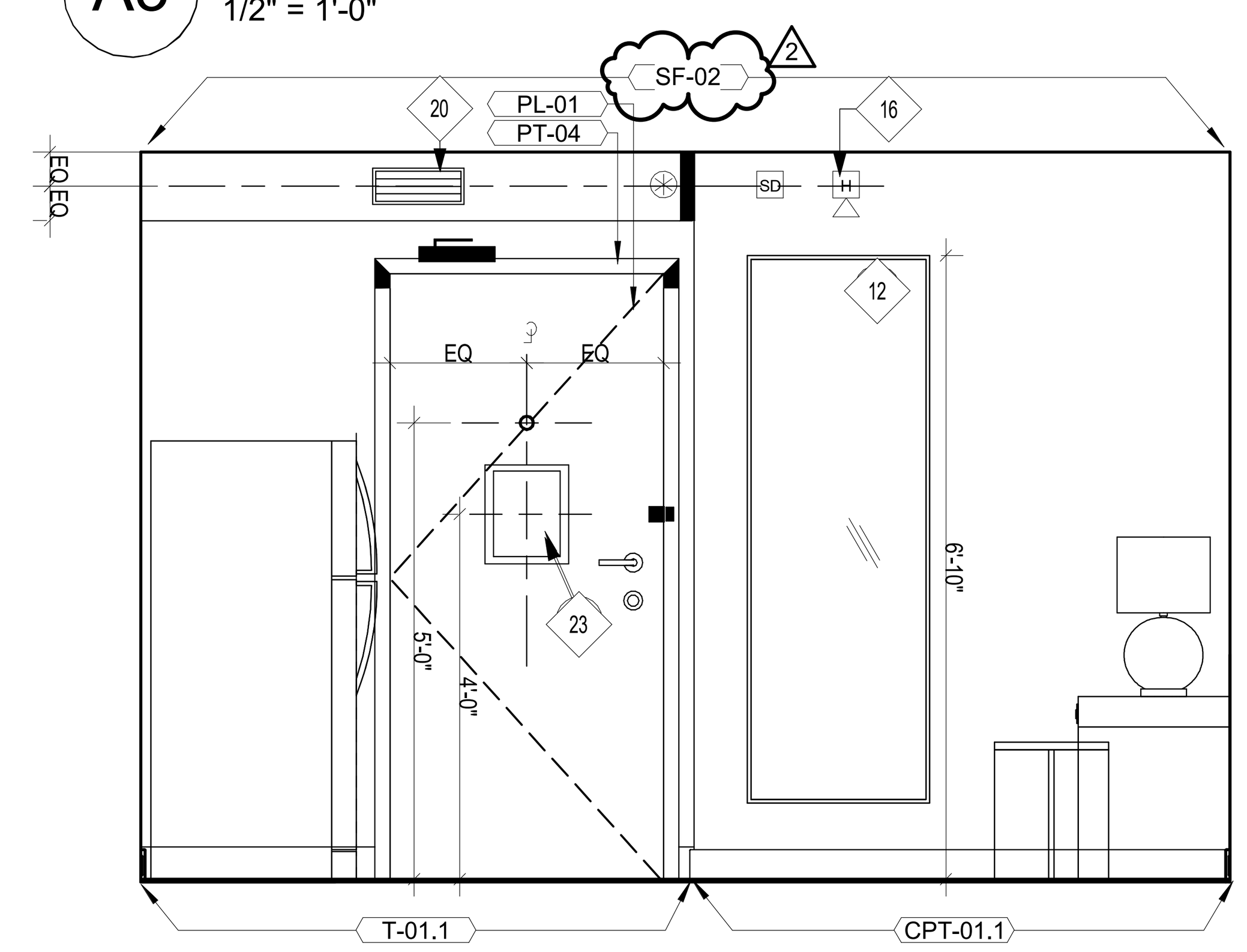
C3 QQ STUDIO CONN. - WORKING WALL
1/2" = 1'-0"



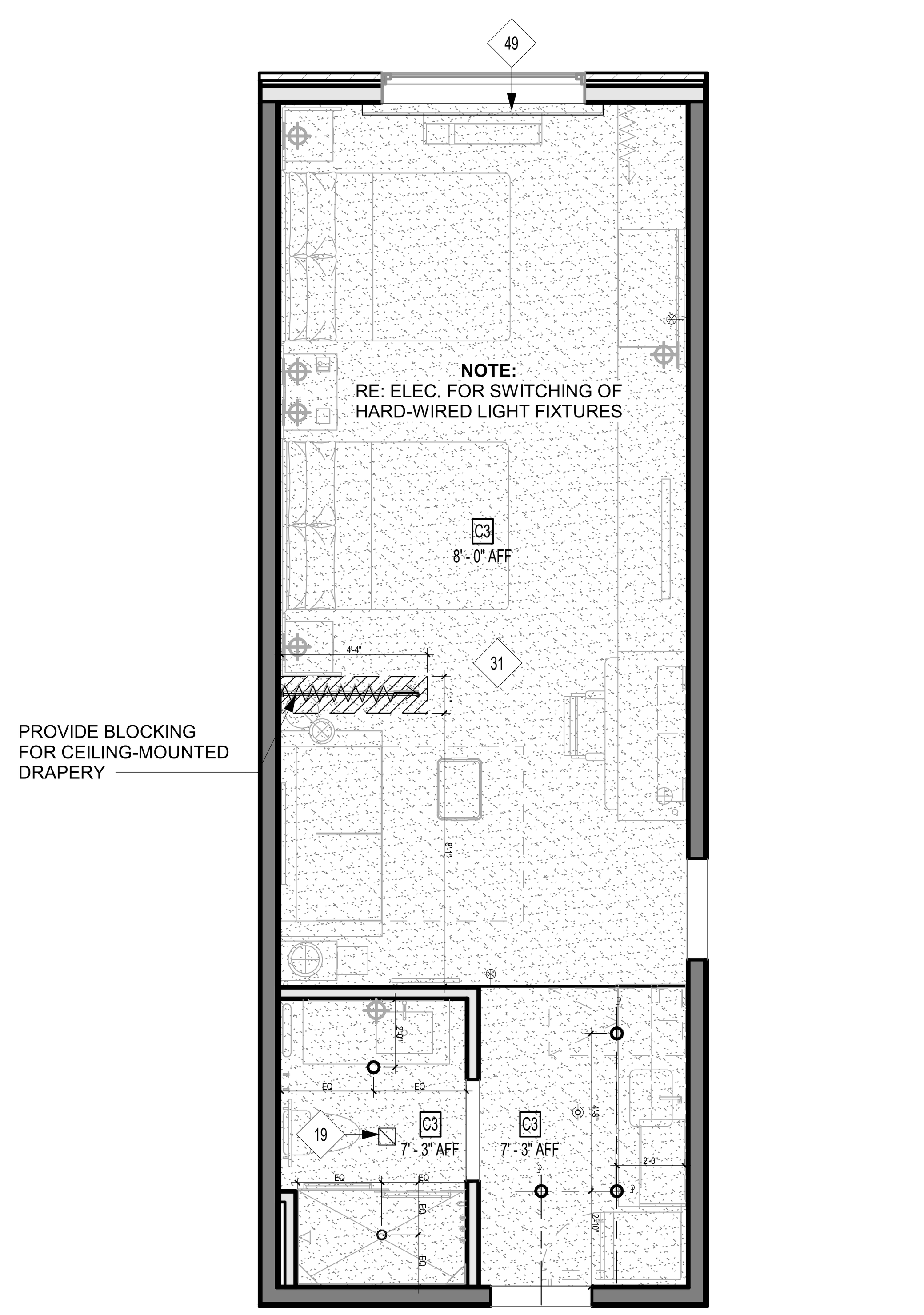
A3 QQ STUDIO CONN. - WINDOW
1/2" = 1'-0"



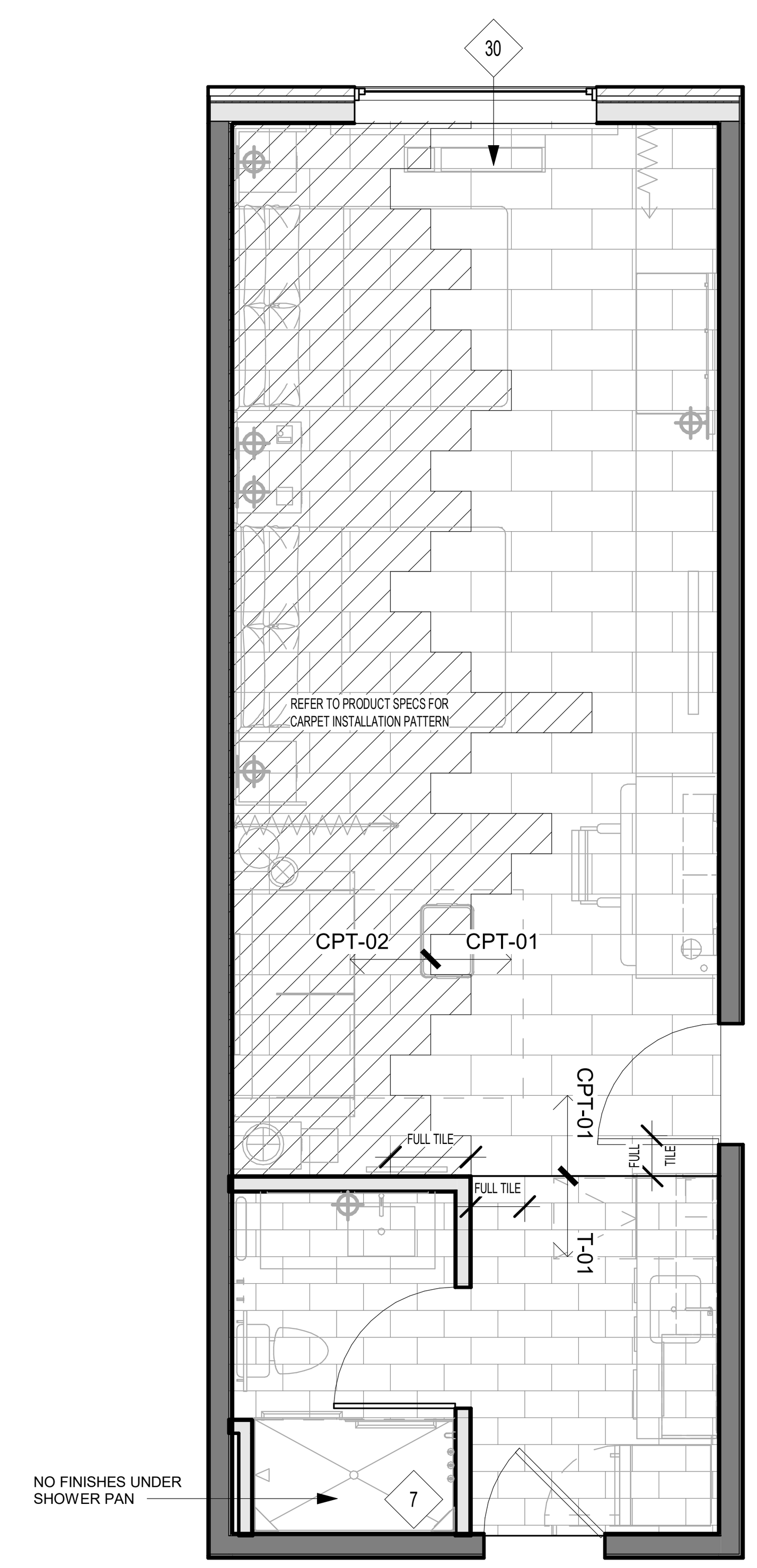
C2 QQ STUDIO CONN. - HEADBOARD
1/2" = 1'-0"



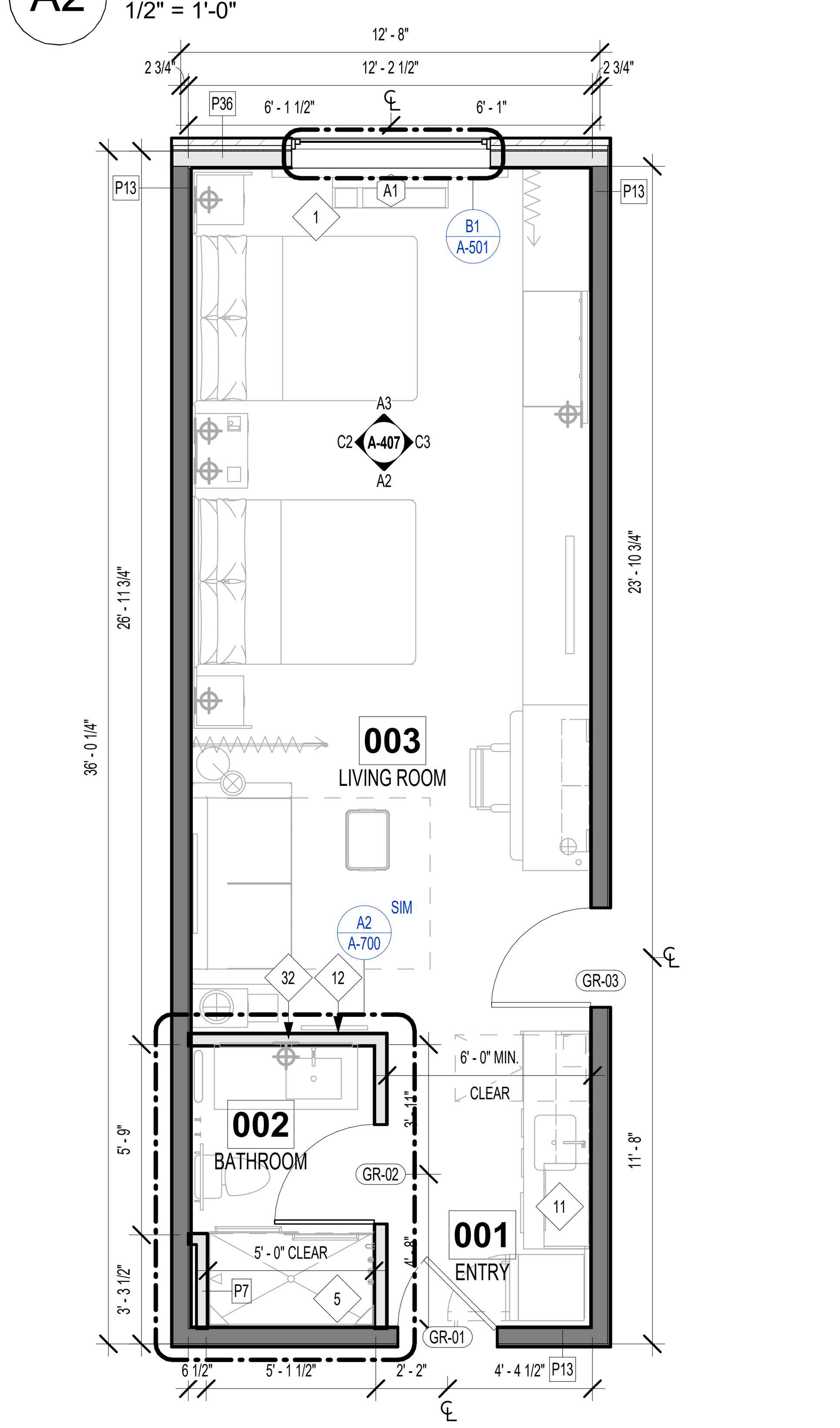
A2 QQ STUDIO CONN. - ENTRY
1/2" = 1'-0"



C1 QUEEN QUEEN STUDIO SUITE - CONNECTOR - RCP
1/4" = 1'-0"



B1 QUEEN QUEEN STUDIO SUITE - CONNECTOR - FINISH PLAN
1/4" = 1'-0"



A1 QUEEN QUEEN STUDIO SUITE - CONNECTOR - FLOOR PLAN
1/4" = 1'-0"

REFERENCE G-003 FOR GENERAL NOTES
REFERENCE A-600 FOR DOOR & WINDOW SCHEDULES

UNIT PLAN LEGEND

	PARTIAL HEIGHT PARTITION
	P1 WALL (UNLESS NOTED OTHERWISE); SEE PARTITION SCHEDULE FOR ASSEMBLY INFORMATION
PT-01	FINISH TAG
101	DOOR TAG
	ACCESSIBLE ROUTE (36" CLEAR; 32" MIN REQ'D @ DOOR OPENING PER ANSI A117.1)

UNIT FINISH LEGEND

	CPT-01 -- CARPET TILE
	CPT-02 -- CARPET TILE
	T-01 -- TILE

UNIT RCP LEGEND

	C3 - GWB ON METAL STUD
	RETURN GRILL
9' - 0" AFF	INDICATES CEILING HEIGHT, BELOW MATERIAL TAG

KEYNOTE LEGEND

1	PTAC UNIT
4	MANUAL BLACK OUT ROLLER SHADE TO EXTEND 6" BEYOND WINDOW OPENING; SHEER ROLLER SHADE TO BE MOUNTED INSIDE WINDOW OPENING
5	SHOWER ENCLOSURE W/TEMPERED GLASS DOOR
7	PREMANUFACTURED SHOWER PAN
9	ALTERNATE LOCATION OF DOOR FOR CONNECTING ROOMS TO ACCESSIBLE ROOMS--REFER TO OVERALL PLANS FOR LOCATION OF ACCESSIBLE ROOMS
10	DEDICATED CIRCUIT FOR DISHWASHER
11	RANGE TOP STYLE MICROWAVE AFFIXED TO WALL
12	MIRROR
14	SWITCH CONTROLLING GARBAGE DISPOSAL GANGED WITH DUPLEX - REFER TO HADG FOR ACCESSIBLE ROOM REQUIREMENTS
15	DEDICATED CIRCUIT FOR GARBAGE DISPOSAL
16	FIRE HORN IN STANDARD ROOMS. FIRE HORN/STROBE IN COMMUNICATION FEATURES ROOMS
19	TOILET EXHAUST GRILLE
20	MAKE-UP AIR DIFFUSER
23	ROOM SIGNAGE
24	HARD WIRED THERMOSTAT FOR PTAC. MOUNTED 48" MAX TO TOP OF DEVICE. COMMUNICATION BETWEEN THERMOSTAT AND PTAC MAY BE WIRELESS.
25	EXTEND J-BOX, DEVICE & COVER PLATE FLUSH W/ MILLWORK BACK PANEL
28	DOORBELL ON/OF SWITCH (COMMUNICATION FEATURES ROOMS ONLY) SIGNAGE AS REQ'D.
30	EDGE OF PTAC ABOVE CARPET TILES
31	MIN. CEILING HEIGHT MUST BE MAINTAINED - REFER TO HOME 2 SUITES BY HILTON STANDARDS MANUAL
32	FRAMING SUBCONTRACTOR TO PROVIDE 3/4" F.R.T. PLYWOOD BLOCKING TO RECEIVE ITEM INDICATED - EXTEND FULL LENGTH OF OBJECT
36	OUTLET ABOVE FOR MICROWAVE - REFER TO ROOM ELEVATION MOUNT DEVICE HORIZONTALLY--FACE PLATE TO BE WHITE
41	GRAPHIC ART. REFER TO ACCESSORIES LEGEND & CONSTRUCTION PLAN
44	WAP IN 3-GANG BOX MOUNTED VERTICALLY UNDER DESK. MAINTAIN 6" BETWEEN ALL BOXES, TYP ALL GUESTROOMS. COORDINATE WAP LOCATION WITH CASEGOODS TO AVOID CONFLICTS. VISIT CONNECTEDROOM.HILTON.COM FOR CURRENT WIRELESS INTERNET REQ'S AND LIST OF APPROVED INTEGRATORS.
45	EACH CABLE MUST HOMERUN BETWEEN THE GUESTROOM AND THE IDF ON EACH FLOOR. VISIT CONNECTEDROOM.HILTON.COM FOR CURRENT REQUIREMENTS AND OPTIONS.
46 (2)	WIRED DATA CONNECTION FOR GUEST USE: PROVIDE CAT6 RJ-45 ABOVE THE DESK (36" AFF), RUN IN SMURF TUBE IN THE WALL TO THE WAP UNDER THE DESK.
47	TV CONNECTIONS FOR FREE-TO-GUEST CONTENT: A) NO SMART TV:COAX CABLE BEHIND TV. CAT6 RJ-45 JACK BEHIND TV, RUN IN SMURF TUBE IN WALL TO WAP UNDER DESK. PATCH CORD TO EDGE CONTROLLER FOR CONNECTED ROOM. MIN. 6" CLEARANCE FROM WALL BOXES - OR - B) SMART TV-INTERNET PROTOCOL TELEVISION (IPTV); COAX NOT REQ'D. CAT6 RJ-45 JACK BEHIND TV RUN IN SMURF TUBE IN WALL TO WAP UNDER DESK. PATCH CORD TO EDGE CONTROLLER FOR CONNECTED ROOM. CAT6 RJ-45 JACK BEHIND TV IN ONE-BEDROOM TV. MIN. 6" CLEARANCE FROM WALL BOXES. VISIT HILTONHDTV.COM FOR ADDITIONAL INFORMATION.
49	HARDWIRED BLACK OUT ROLLER SHADE WITH NO EXPOSED WIRES

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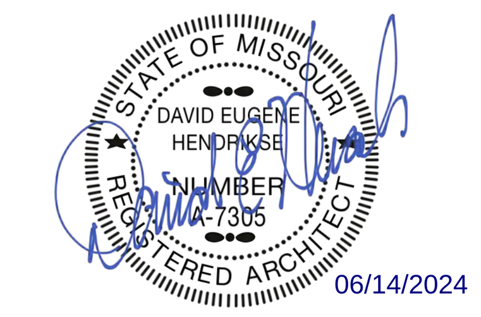


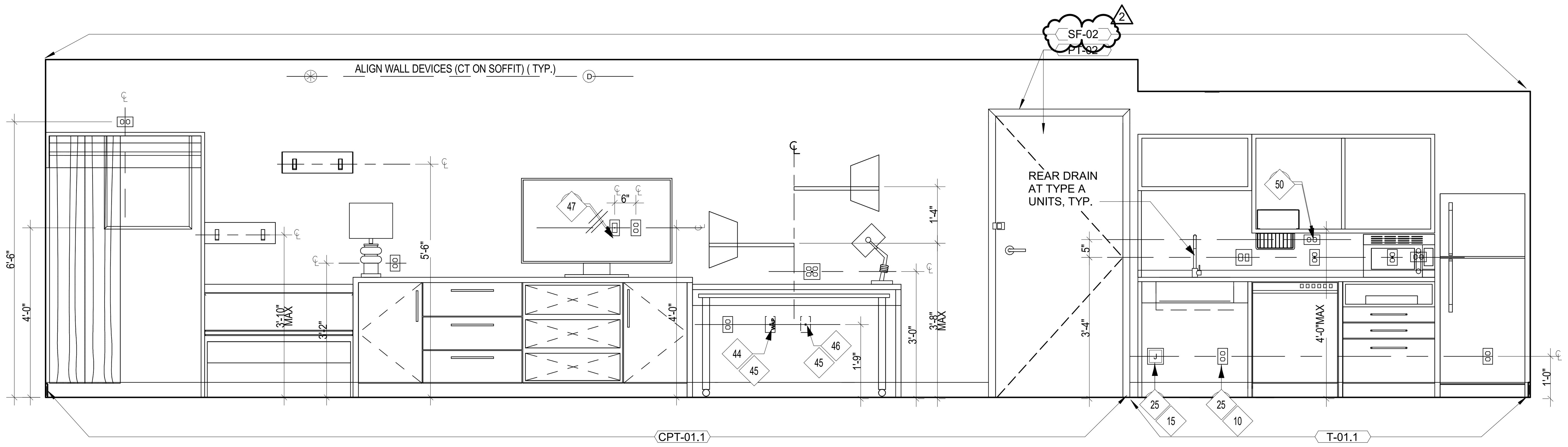
HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
QUEEN QUEEN STUDIO SUITE - CONNECTOR

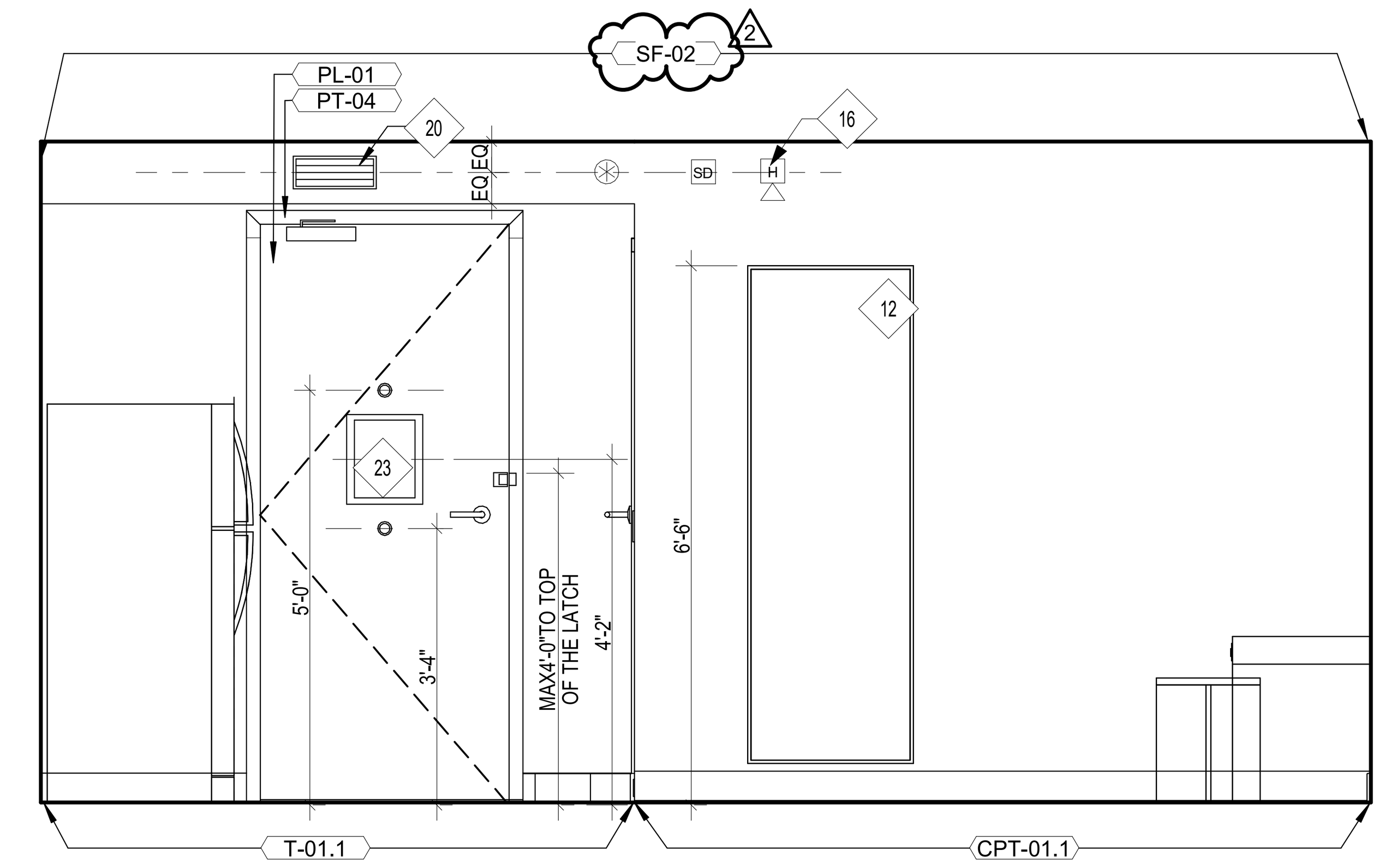
PROJECT NUMBER: 22023

SHEET NUMBER:

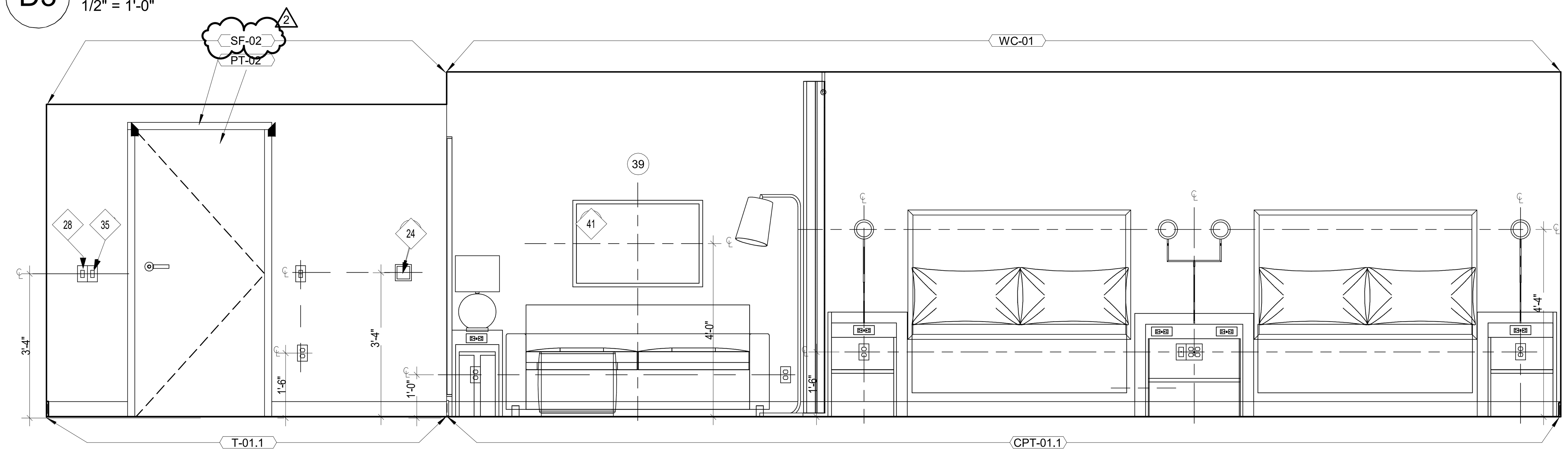
A-407



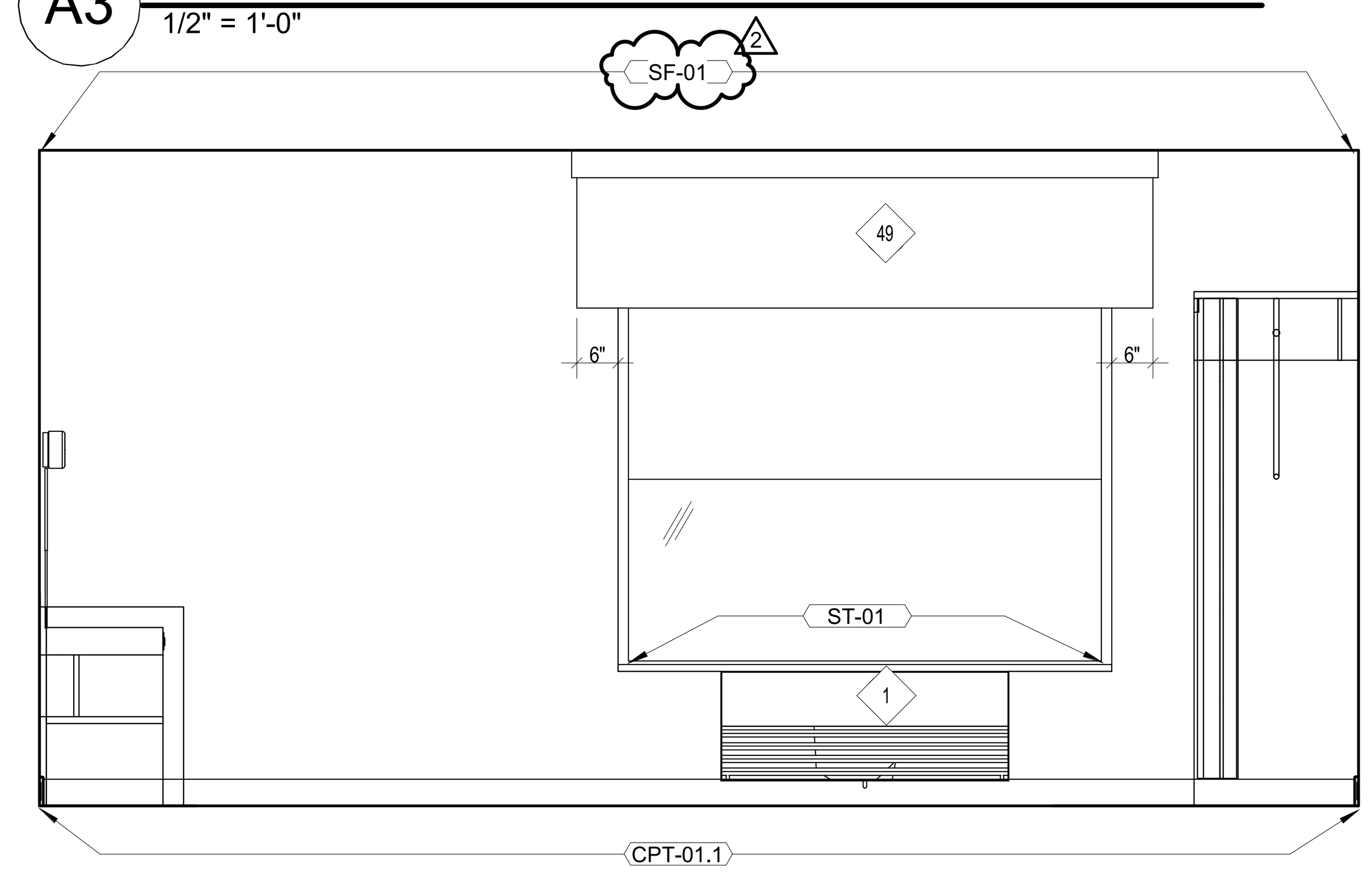
D3 QQ STUDIO ACC. - WORKING WALL
1/2" = 1'-0"



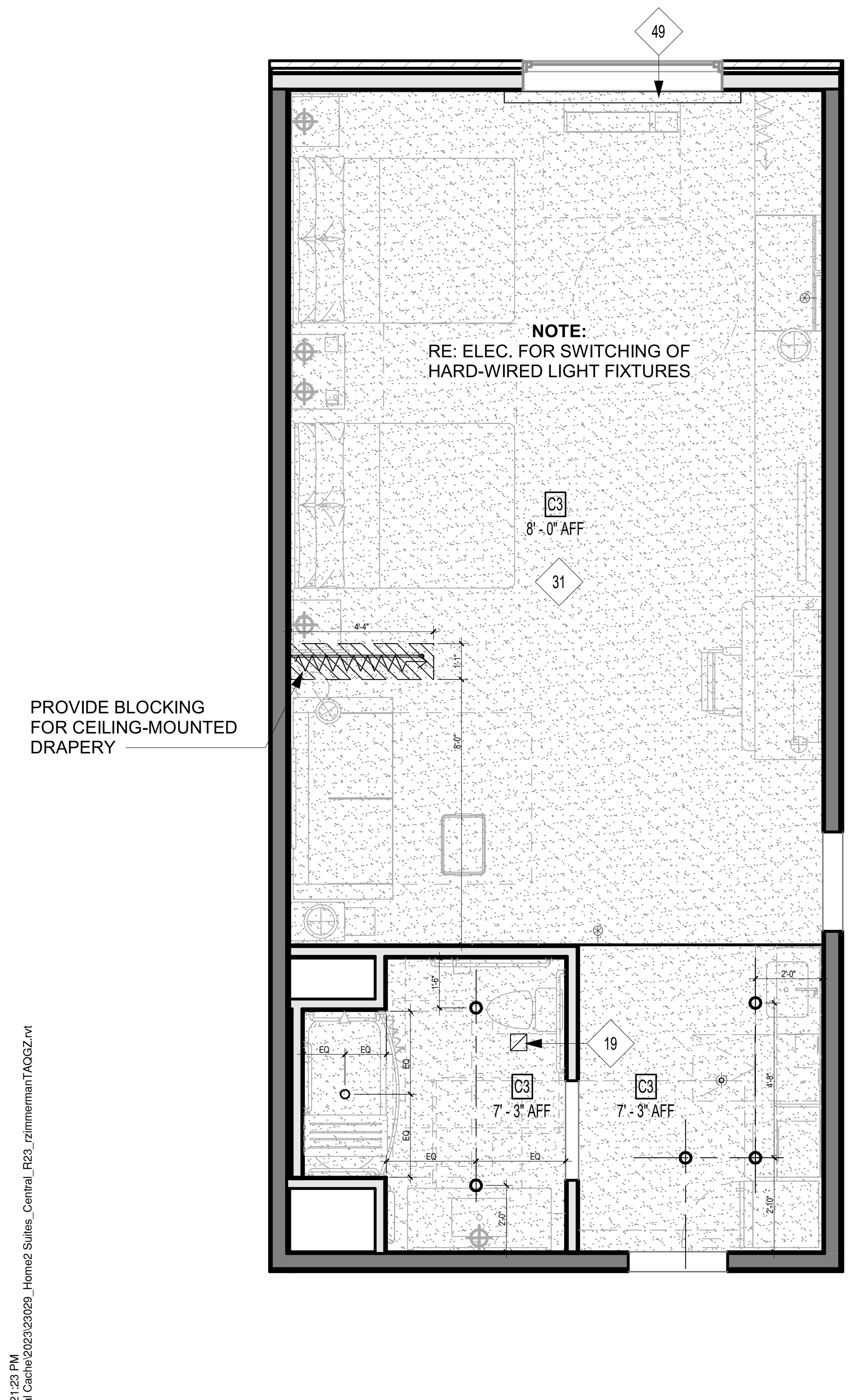
A3 QQ STUDIO ACC. - ENTRY
1/2" = 1'-0"



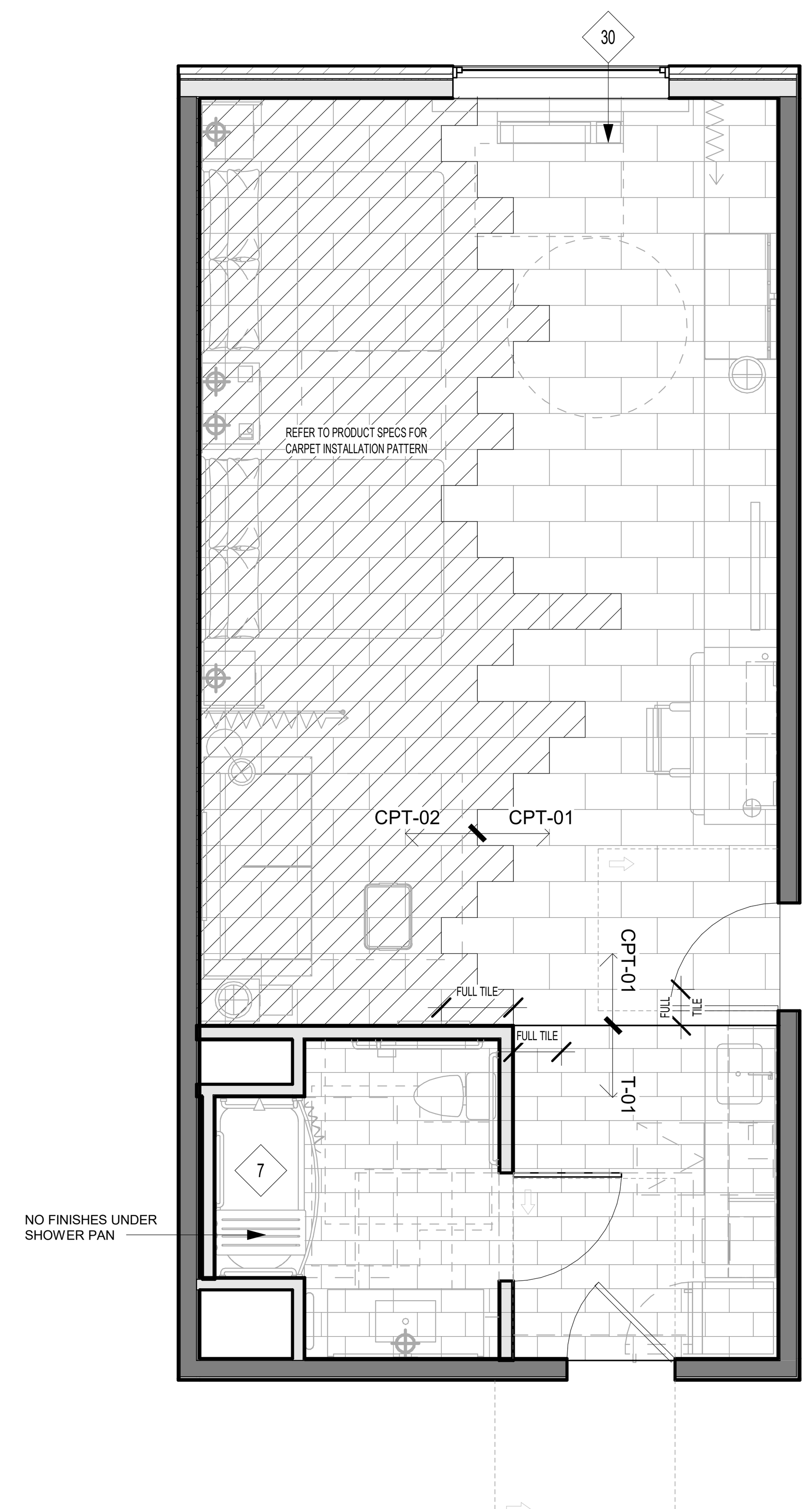
D2 QQ STUDIO ACC. - HEADBOARD
1/2" = 1'-0"



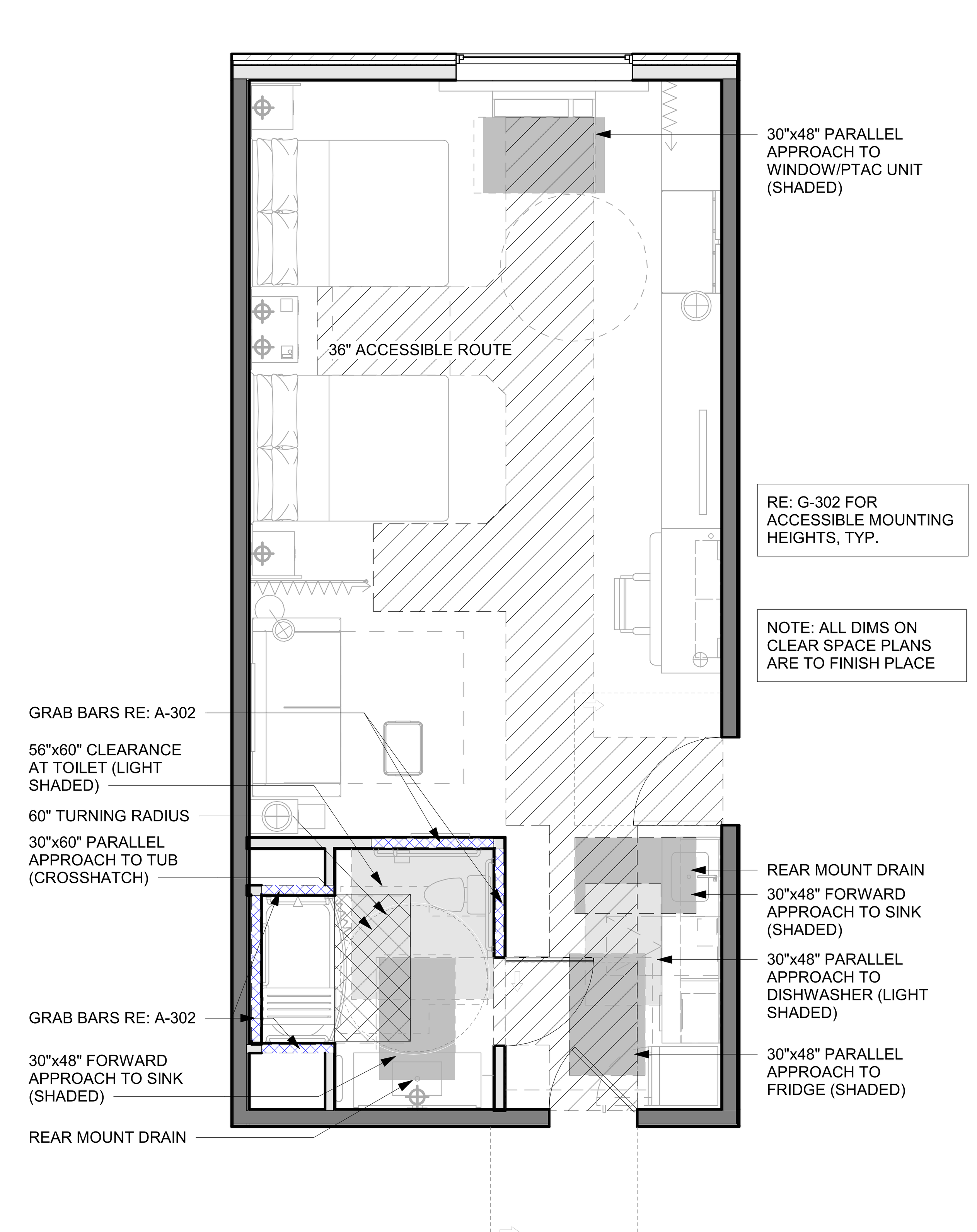
A2 QQ STUDIO ACC. - WINDOW
1/2" = 1'-0"



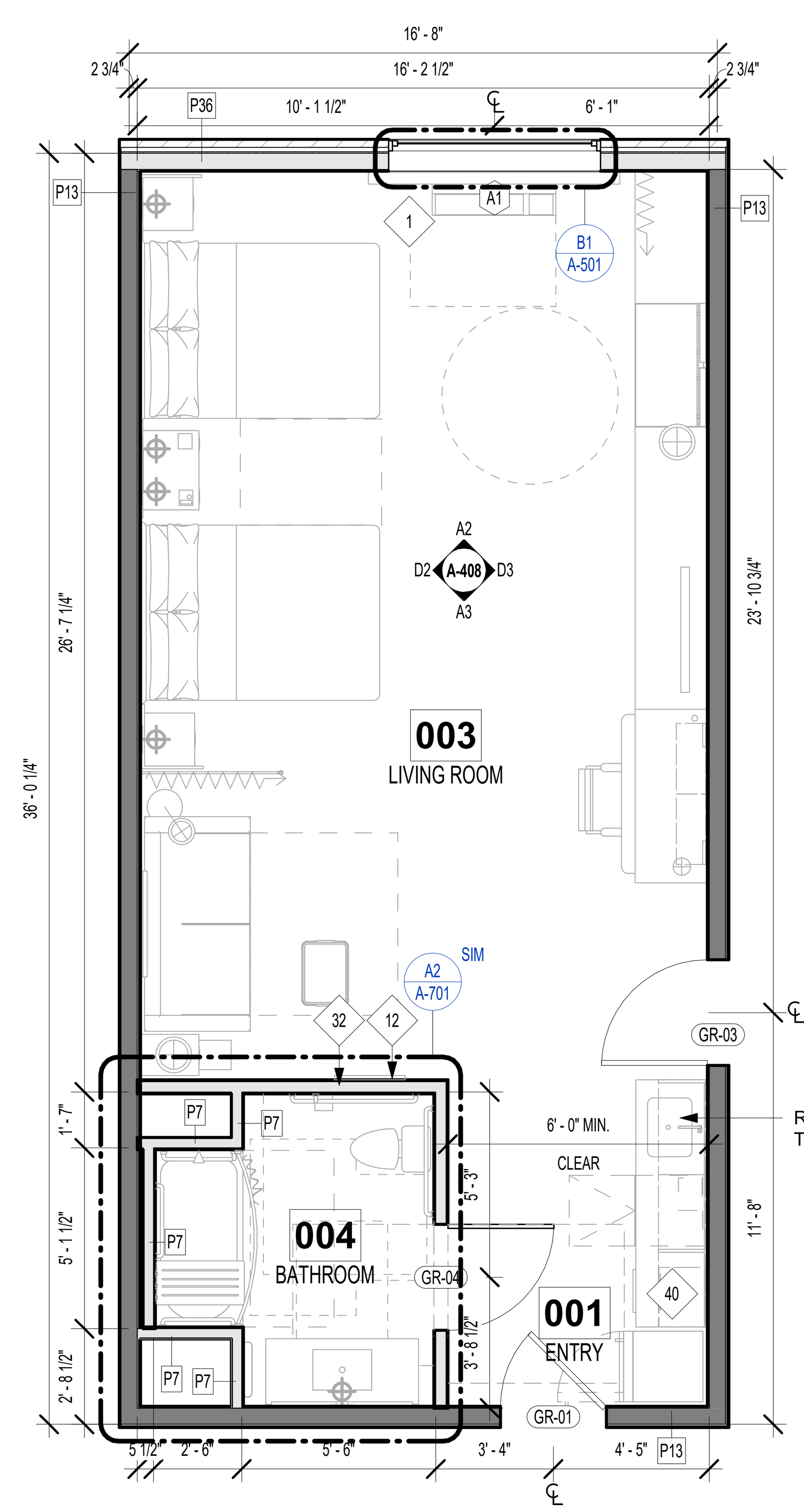
D1 QUEEN QUEEN STUDIO SUITE - ACCESSIBLE - RCP
1/4" = 1'-0"



C1 QUEEN QUEEN STUDIO SUITE - ACCESSIBLE - FINISH PLAN
1/4" = 1'-0"



B1 QUEEN QUEEN STUDIO SUITE - ACCESSIBLE - CLEAR SPACE PLAN
1/4" = 1'-0"



A1 QUEEN QUEEN STUDIO SUITE - ACCESSIBLE - FLOOR PLAN
1/4" = 1'-0"

REFERENCE G-003 FOR GENERAL NOTES
REFERENCE A-600 FOR DOOR & WINDOW SCHEDULES

UNIT PLAN LEGEND

	PARTIAL HEIGHT PARTITION
	P1 WALL (UNLESS NOTED OTHERWISE); SEE PARTITION SCHEDULE FOR ASSEMBLY INFORMATION
PT-01	FINISH TAG
101	DOOR TAG
	ACCESSIBLE ROUTE (36" CLEAR; 32" MIN REQ'D @ DOOR OPENING PER ANSI A117.1)

UNIT FINISH LEGEND

	CPT-01 -- CARPET TILE
	CPT-02 -- CARPET TILE
	T-01 -- TILE

UNIT RCP LEGEND

	C3 - GWB ON METAL STUD
	RETURN GRILL
9' - 0" AFF	INDICATES CEILING HEIGHT, BELOW MATERIAL TAG

KEYNOTE LEGEND

1	PTAC UNIT
7	PREMANUFACTURED SHOWER PAN
10	DEDICATED CIRCUIT FOR DISHWASHER
12	MIRROR
15	DEDICATED CIRCUIT FOR GARBAGE DISPOSAL
16	FIRE HORN IN STANDARD ROOMS. FIRE HORN/STROBE IN COMMUNICATION FEATURES ROOMS
19	TOILET EXHAUST GRILLE
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23	ROOM SIGNAGE
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30	EDGE OF PTAC ABOVE CARPET TILES
31	MIN. CEILING HEIGHT MUST BE MAINTAINED - REFER TO HOME 2 SUITES BY HILTON STANDARDS MANUAL
32	FRAMING SUBCONTRACTOR TO PROVIDE 3/4" F.R.T. PLYWOOD BLOCKING TO RECEIVE ITEM INDICATED - EXTEND FULL LENGTH OF OBJECT
35	SWITHES CONTROLLING MECHANICAL SHADES - REFER TO FFE MANUAL
40	COUNTERTOP MICROWAVE
41	GRAPHIC ART. REFER TO ACCESSORIES LEGEND & CONSTRUCTION PLAN
44	WAP IN 3-GANG BOX MOUNTED VERTICALLY UNDER DESK. MAINTAIN 6" BETWEEN ALL BOXES, TYP ALL GUESTROOMS. COORDINATE WAP LOCATION WITH CASEGOODS TO AVOID CONFLICTS. VISIT CONNECTEDROOM.HILTON.COM FOR CURRENT WIRELESS INTERNET REQ'S AND LIST OF APPROVED INTEGRATORS.
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49	HARDWIRED BLACK OUT ROLLER SHADE WITH NO EXPOSED WIRES
50	PROVIDE OUTLET FOR UNDERCABINET LIGHTING BY OTHERS

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STATE OF MISSOURI
DAVID EUGENE HENDRIKSE
NUMBER A-7305
REGISTERED ARCHITECT
06/14/2024

HOME2 SUITES BY HILTON

LEE'S SUMMIT, MO

SHEET TITLE
QUEEN QUEEN STUDIO SUITE - ACCESSIBLE

PROJECT NUMBER: 22023

SHEET NUMBER:

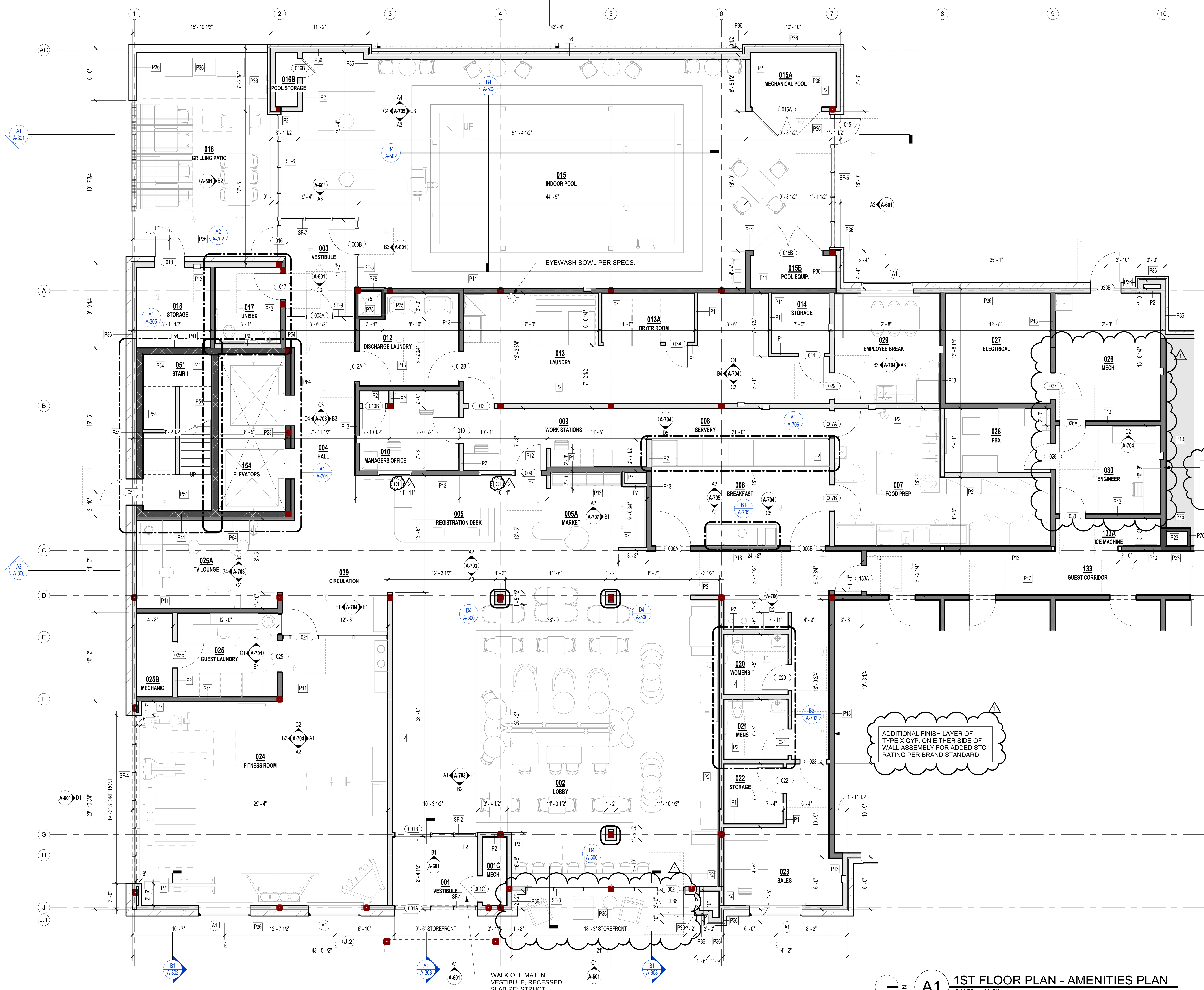
A-408

REFERENCE G-003 FOR GENERAL NOTES
REFERENCE A-600 FOR DOOR & WINDOW SCHEDULES

PLAN LEGEND

- PARTIAL HEIGHT PARTITION
- NON-RATED PARTITION; SEE ASSEMBLIES G-102
- 1 HR RATED PARTITION; SEE ASSEMBLIES G-102
- 2 HR RATED PARTITION; SEE ASSEMBLIES G-102
- A1 — WINDOW TYPE; SEE WINDOW SCHEDULE A-600
- 101 — DOOR TYPE; SEE DOOR SCHEDULE A-600
- P7 — PARTITION TYPE; SEE ASSEMBLIES G-102
- 6' - 0" — FRAMING DIMENSIONS
- 6' - 0" LAYOUT LAYOUT — LAYOUT LINE DIMENSIONS
- HEARING/VISIBILITY
- ADA/ACCESSIBLE UNITS

*NOTE: SEE ENLARGED PLANS (SHEET A-410) & ENLARGED STAIR & ELEVATOR PLANS (SHEETS A-303 - A-306) FOR ALL DOOR TAGS



A1 1ST FLOOR PLAN - AMENITIES PLAN
3/16" = 1'-0"

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STATE OF MISSOURI — DAVID EUGENE HENDRIKSE — NUMBER A-7305 — REGISTERED ARCHITECT — 06/14/2024

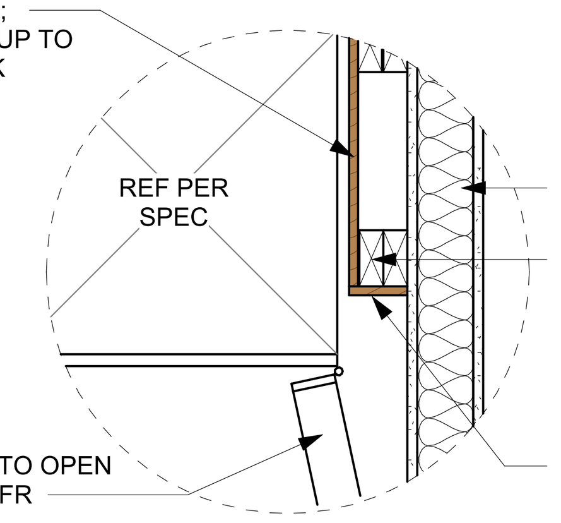
HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
ENLARGED FLOOR PLAN - COMMON AREAS

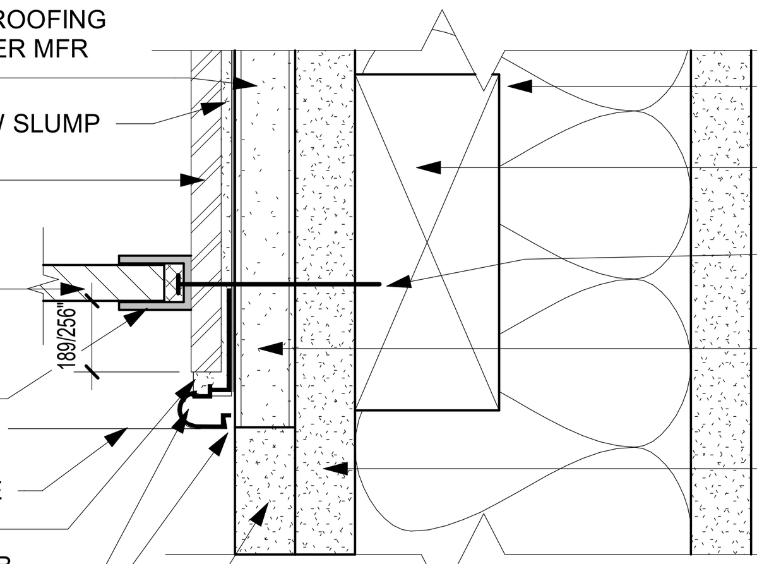
PROJECT NUMBER: 22023

SHEET NUMBER:
A-410

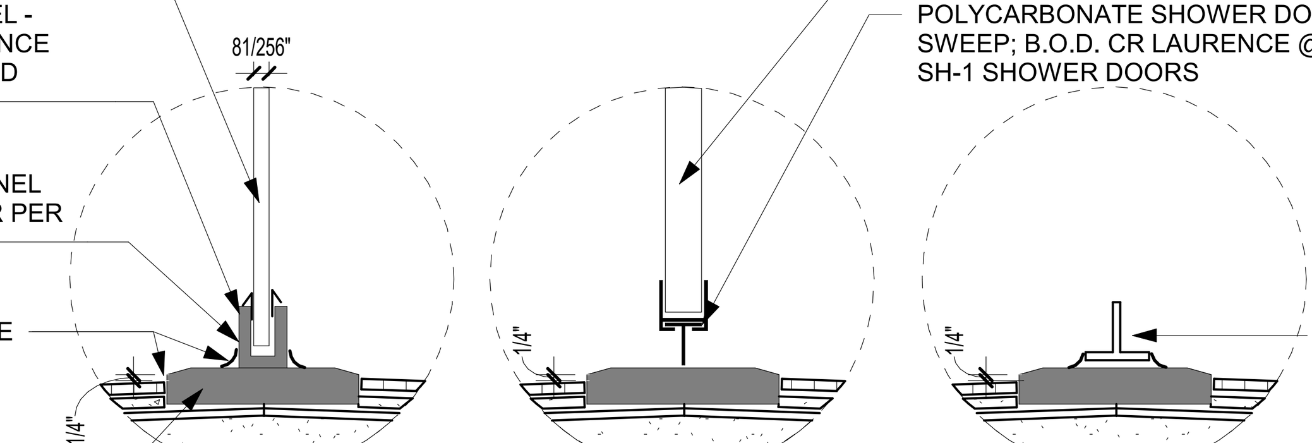
REFERENCE G-003 FOR GENERAL NOTES



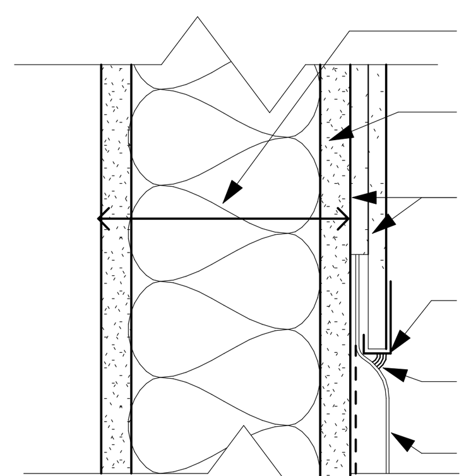
C4 UNIT DETAIL - REF FILLER
1" = 1'-0"



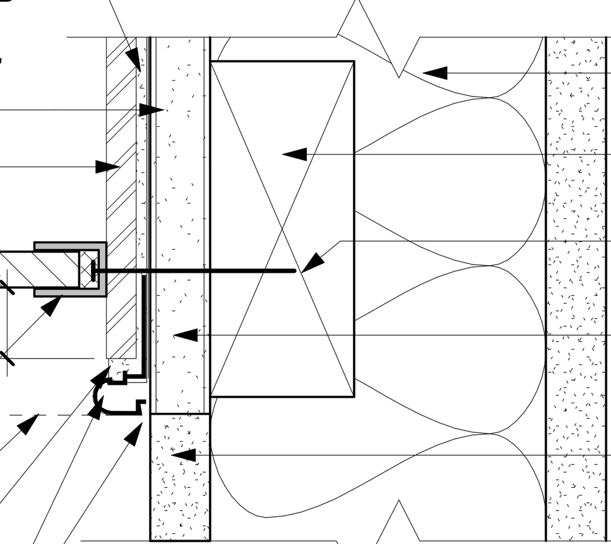
B4 UNIT DETAIL - TYPE B SHOWER - JAMB DETAIL (RATED WALL)
6" = 1'-0"



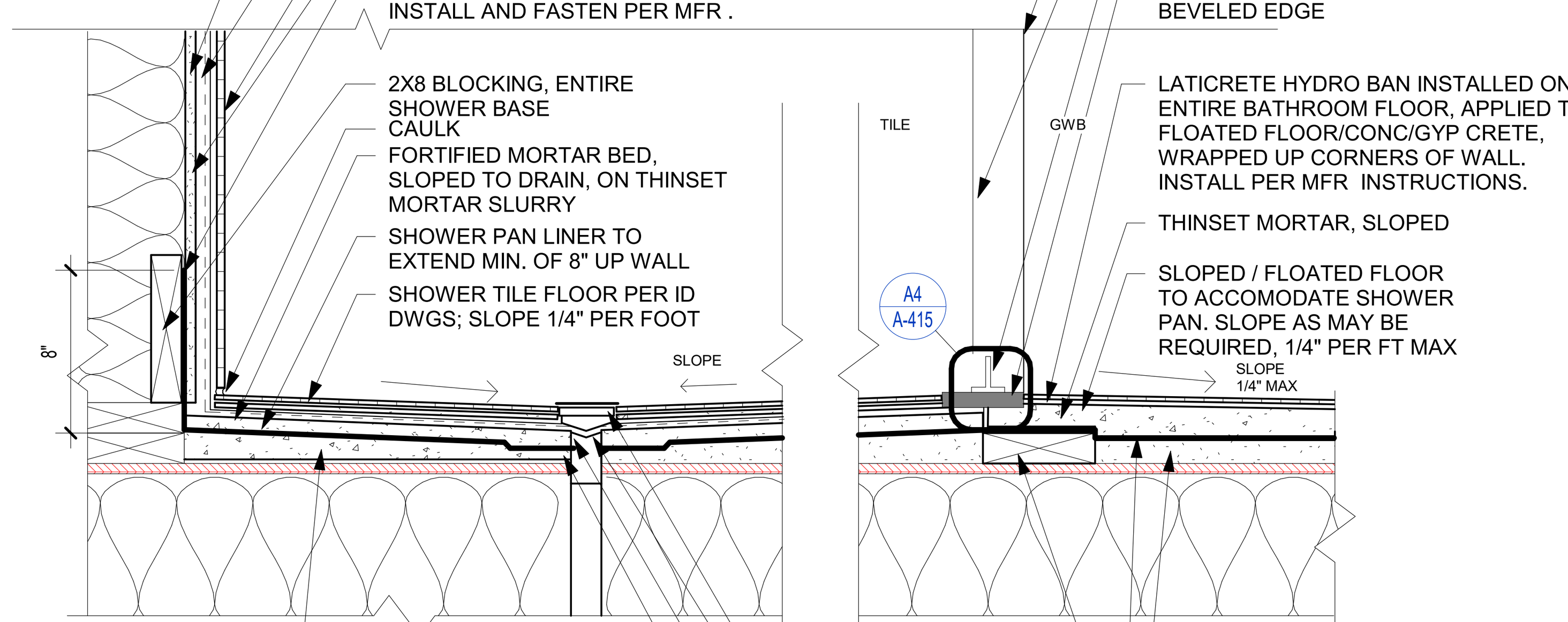
A4 UNIT DETAIL - SHOWER THRESHOLDS
3" = 1'-0"



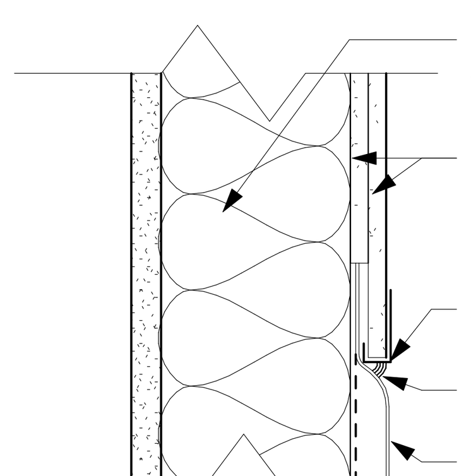
C3 UNIT DETAIL - SHOWER @ RATED WALL @ HEAD/JAMB
3" = 1'-0"



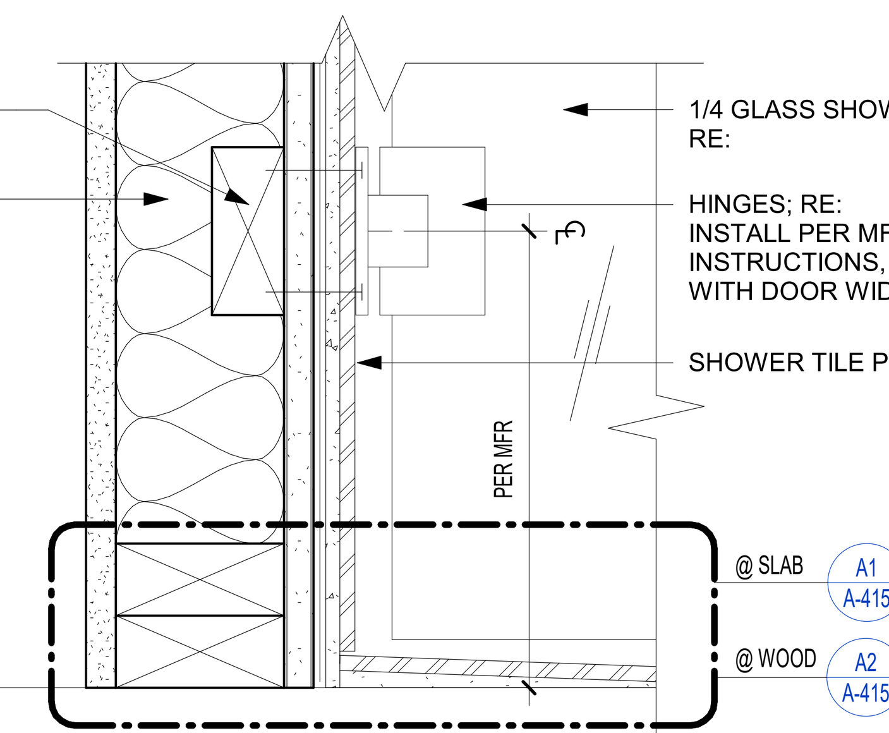
B3 UNIT DETAIL - TYPE B SHOWER - JAMB DETAIL (NON RATED WALL)
6" = 1'-0"



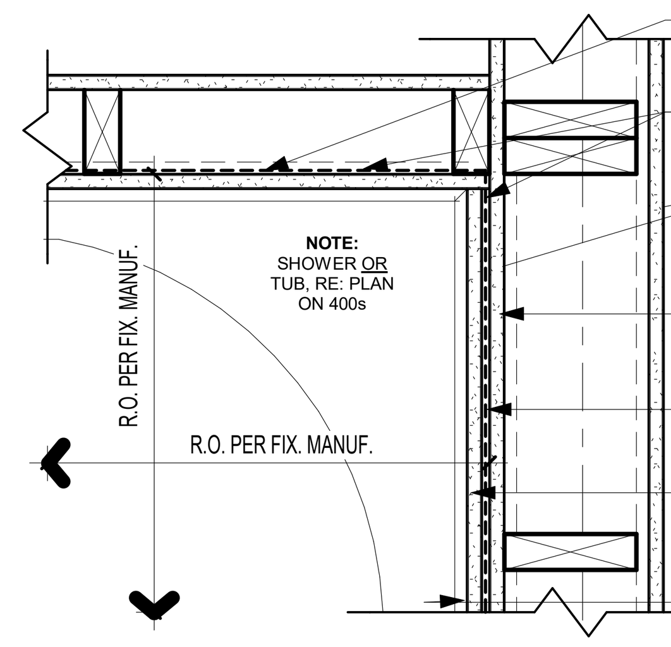
A2 UNIT DETAIL - TILE SHOWER @ WOOD ASSEMBLY
1 1/2" = 1'-0"



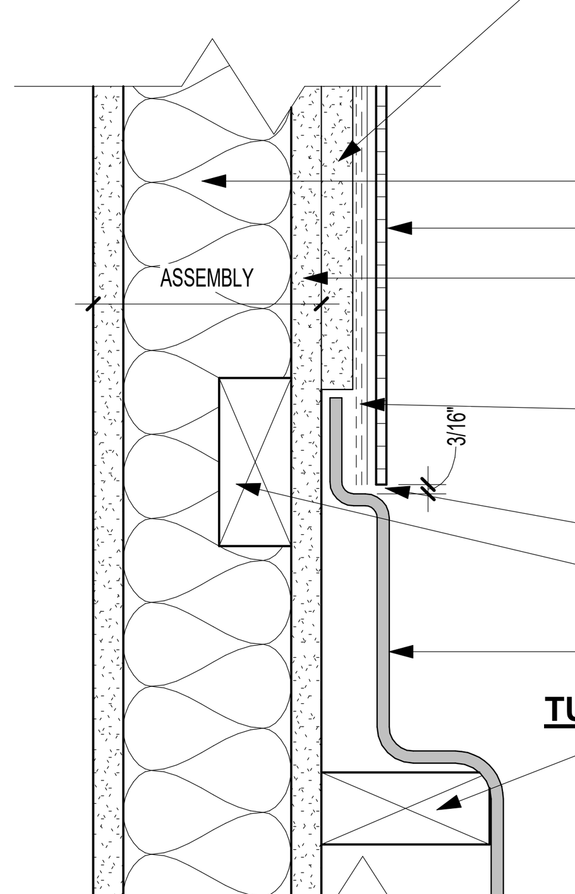
C2 UNIT DETAIL - SHOWER @ NON RATED WALL @ HEAD/JAMB
3" = 1'-0"



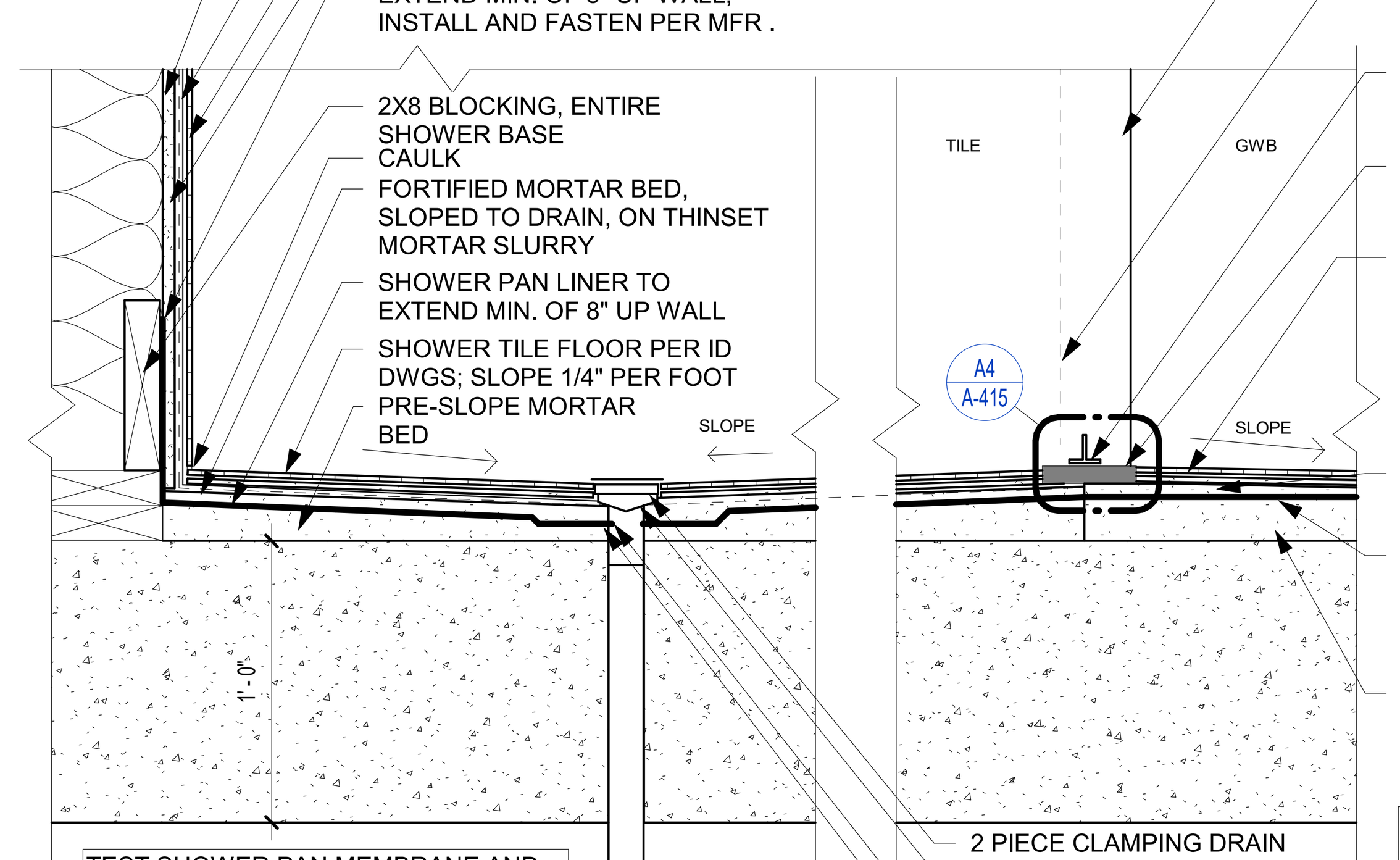
B2 UNIT DETAIL - TYPE B SHOWER DOOR HINGE
3" = 1'-0"



C1 FRAMING - RATED WALL TUB/ SHOWER
1 1/2" = 1'-0"



B1 UNIT DETAIL - TUB SURROUND DETAIL
3" = 1'-0"



A1 UNIT DETAIL - TILE SHOWER @ SLAB
1 1/2" = 1'-0"

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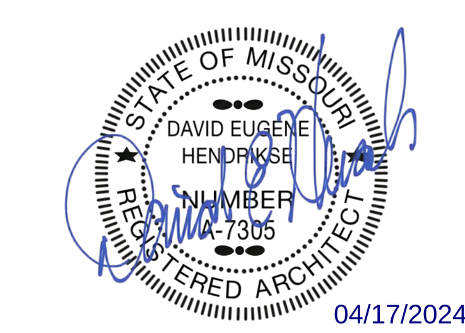

04/17/2024

HOME2 SUITES BY HILTON

LEE'S SUMMIT, MO

SHEET TITLE
UNIT DETAILS

PROJECT NUMBER: 22023

SHEET NUMBER:

A-415

4/17/2024 4:53:02 PM
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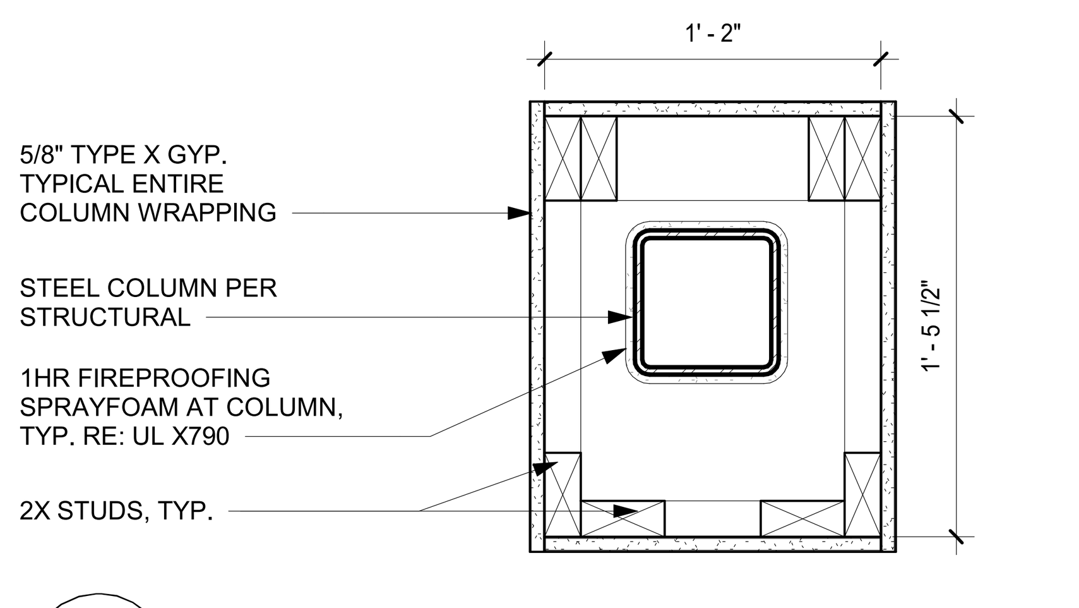
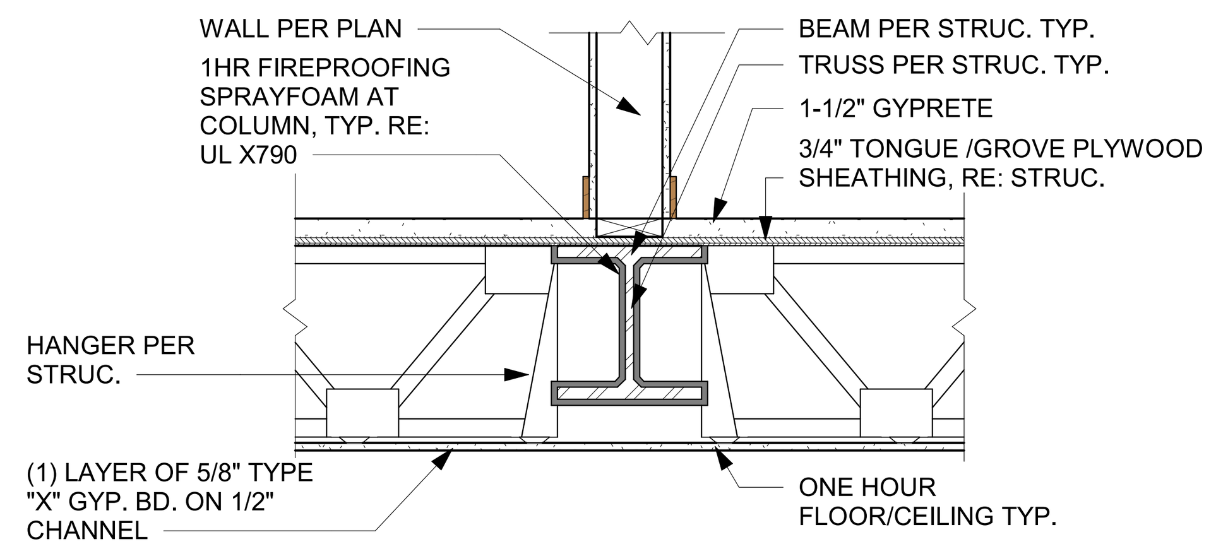
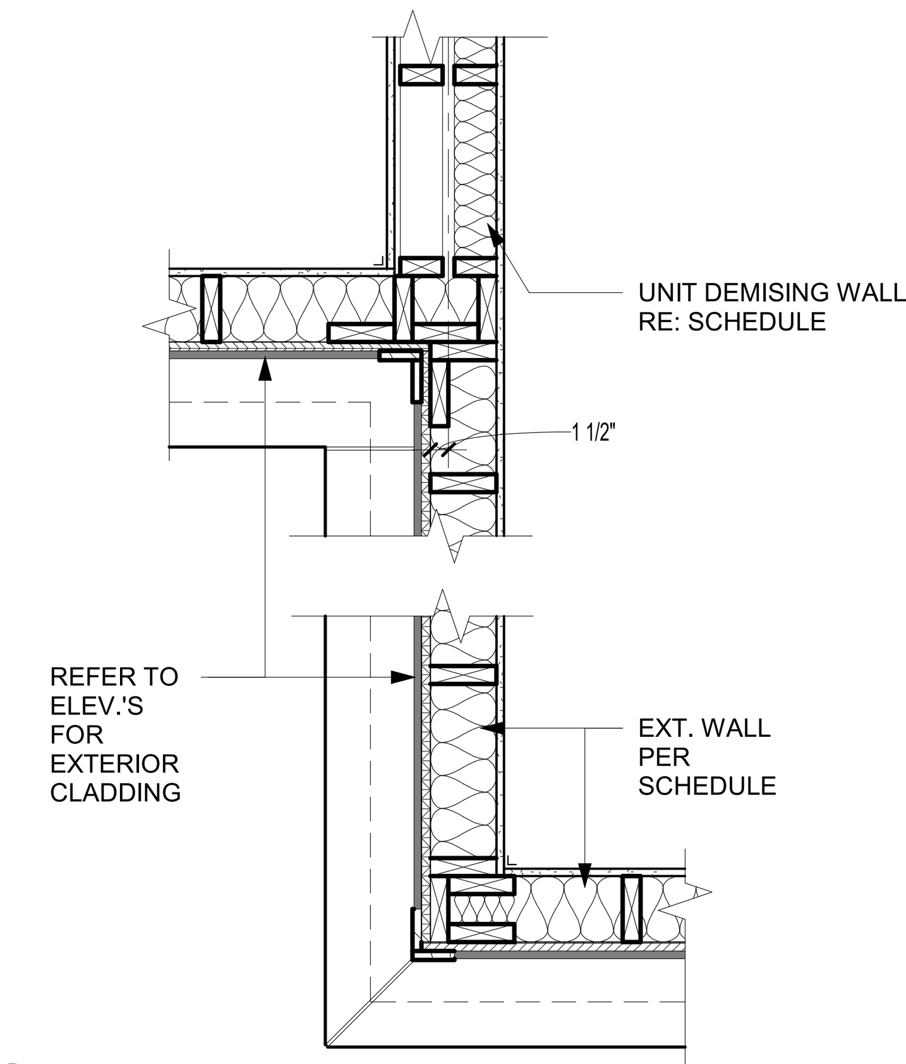
REFERENCE G-003 FOR GENERAL NOTES



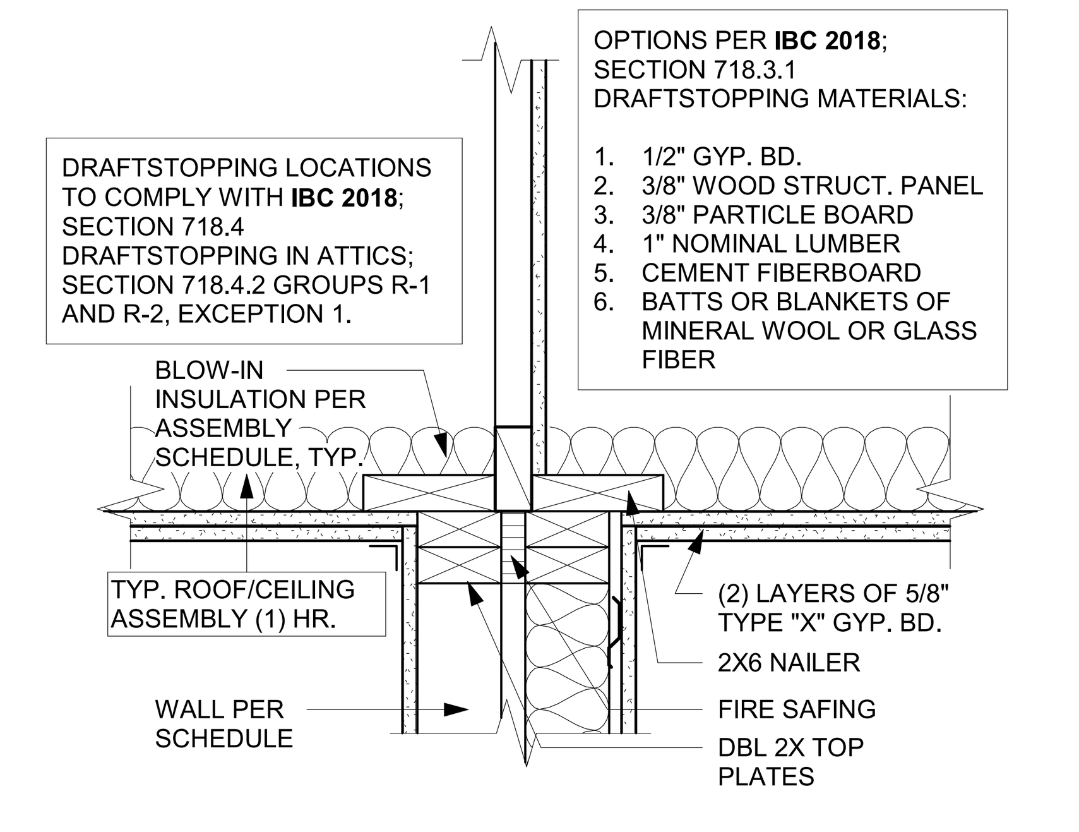
D4 COLUMN IN COLUMN WRAP
1 1/2" = 1'-0"



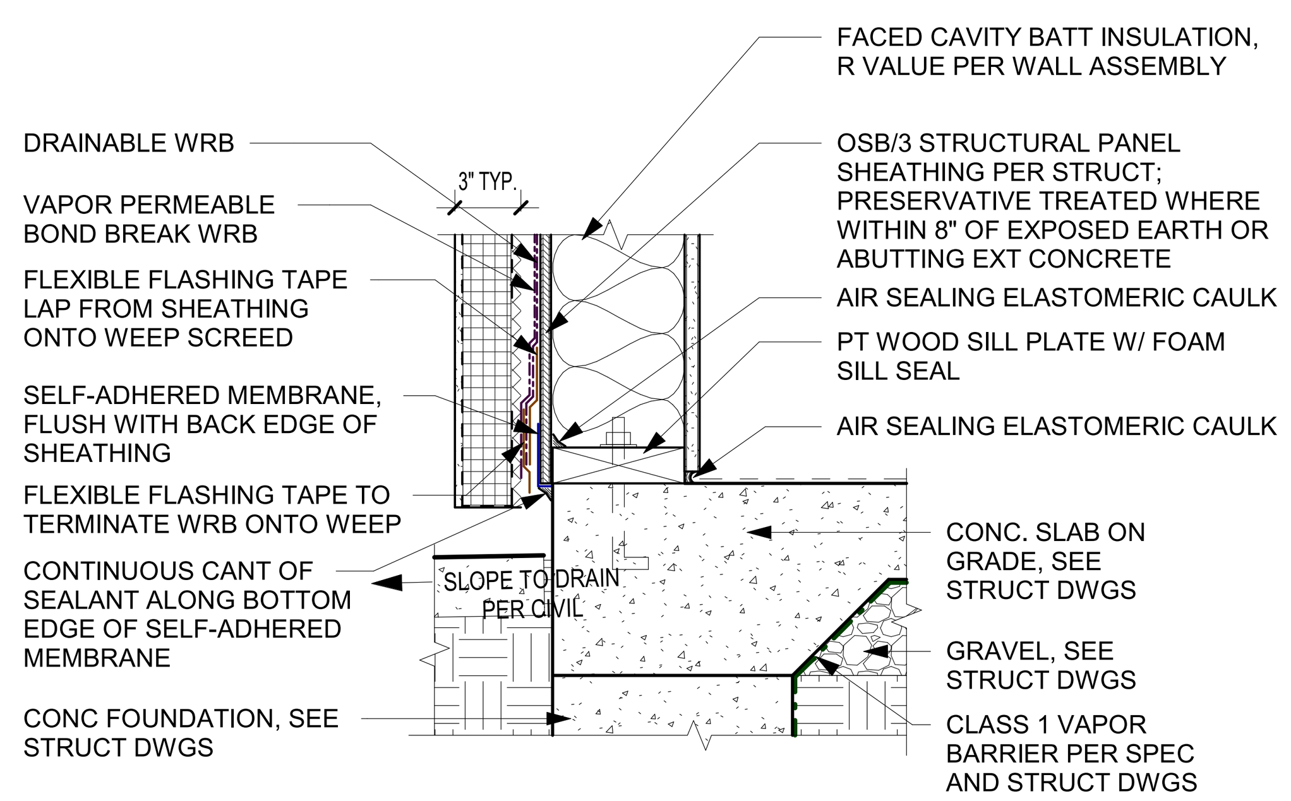
C4 SAFRM SECTION
3/4" = 1'-0"



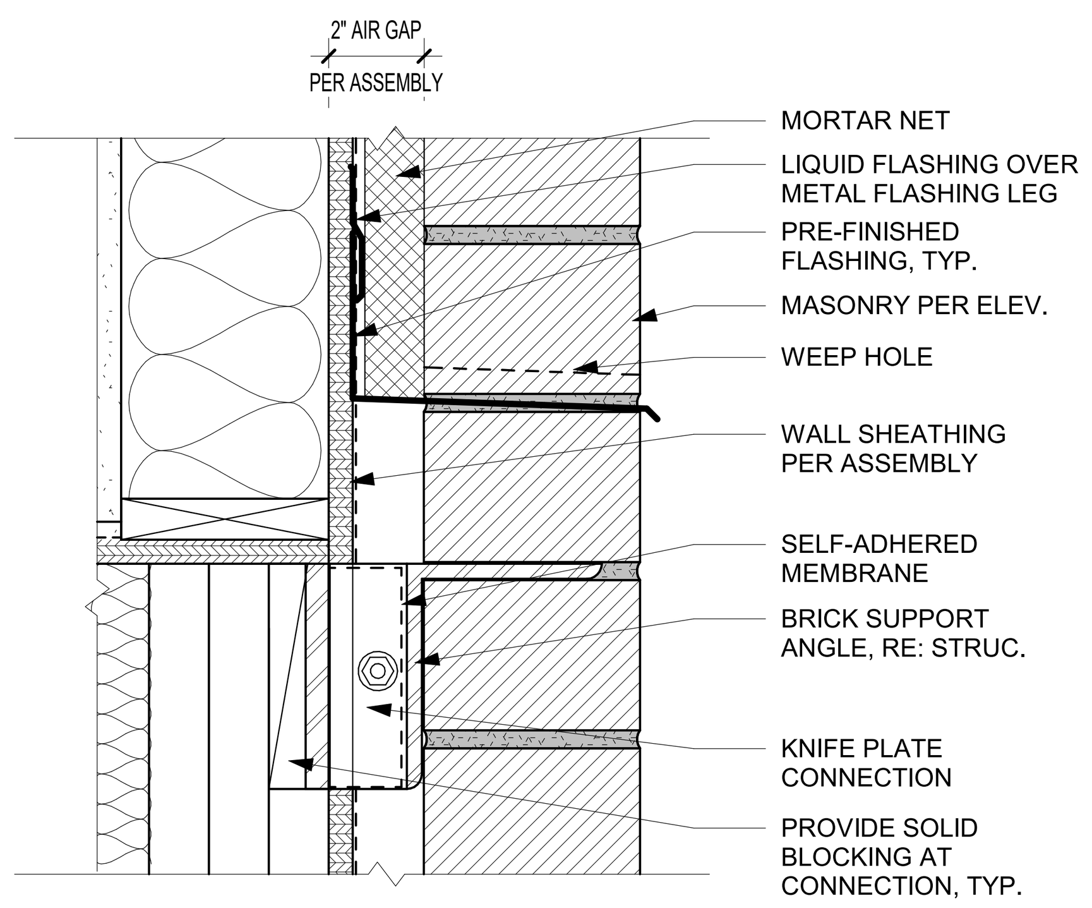
B4 CORNER FRAMING DETAIL
3/4" = 1'-0"



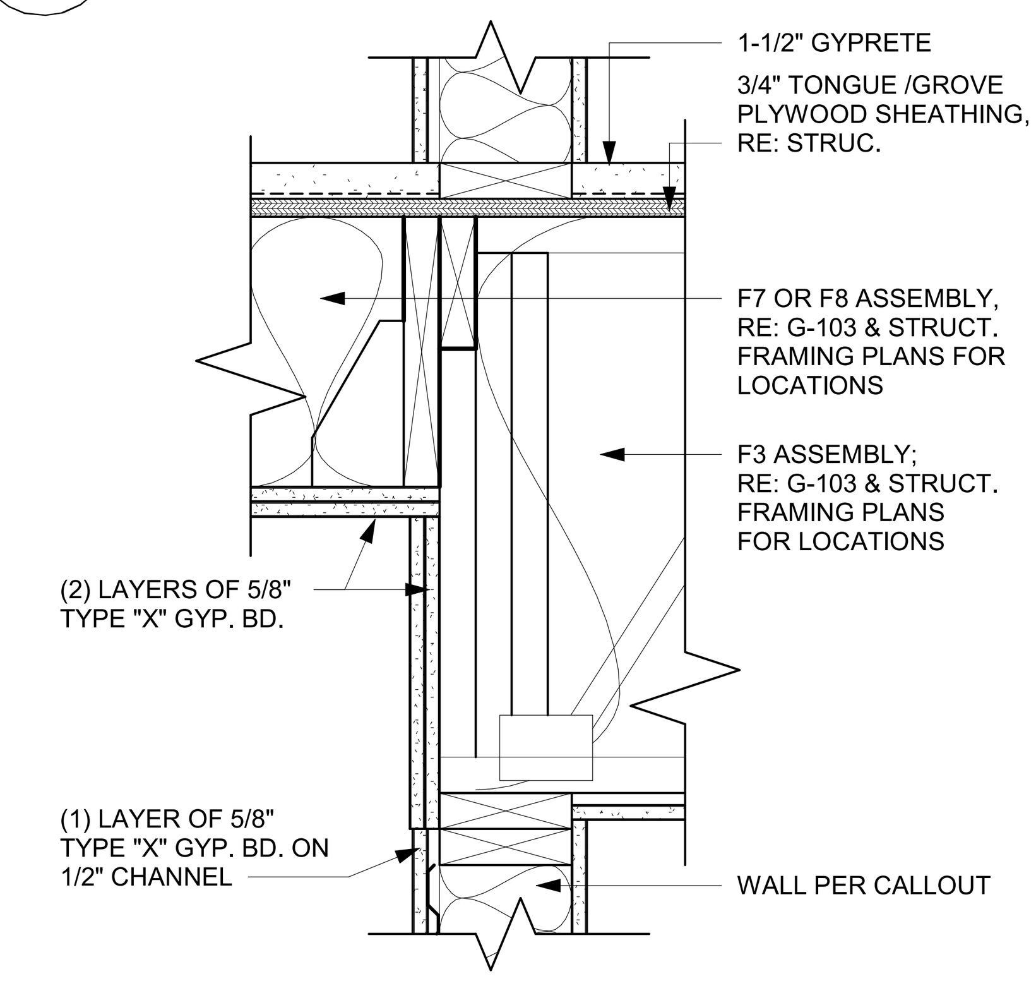
A4 PARTY WALL - DRAFTSTOP
1 1/2" = 1'-0"



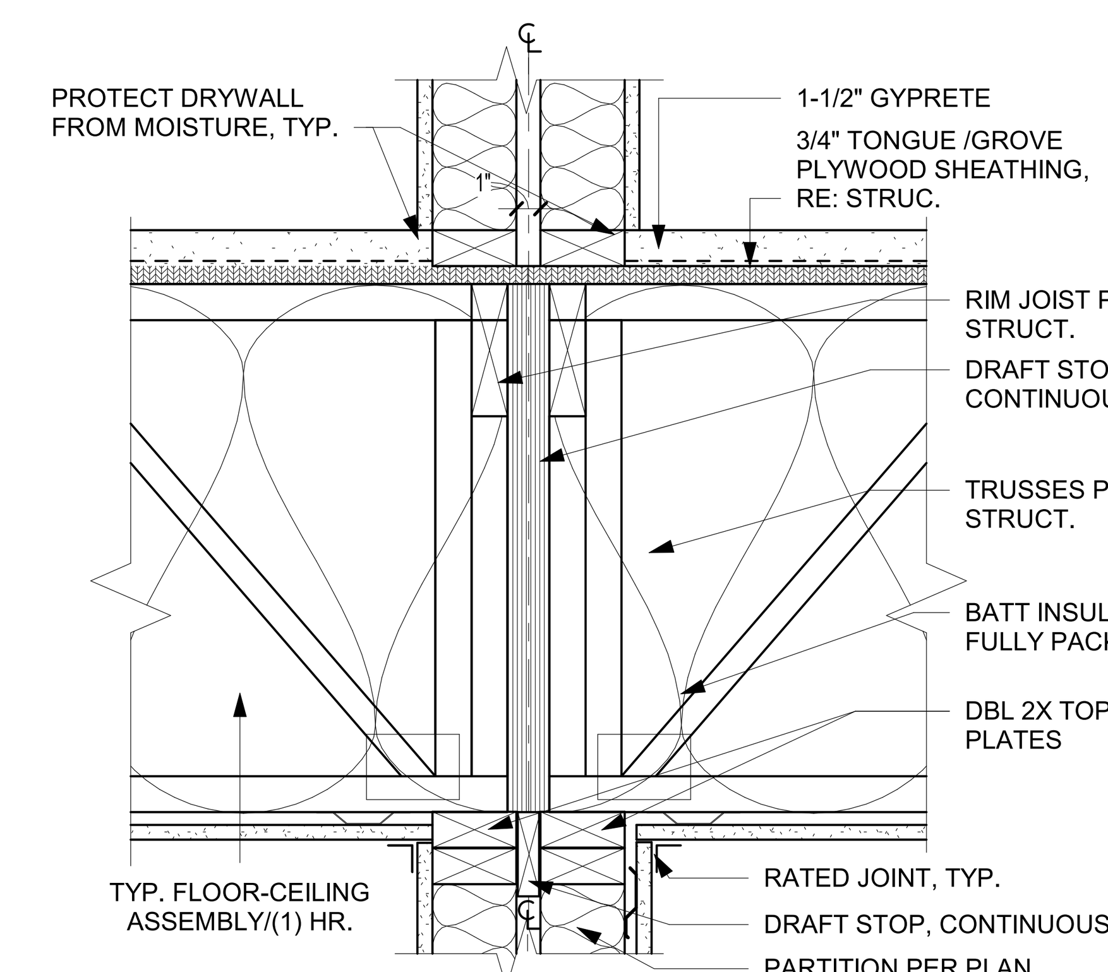
D3 FOUNDATION - EIFS @ HARDSCAPE
1 1/2" = 1'-0"



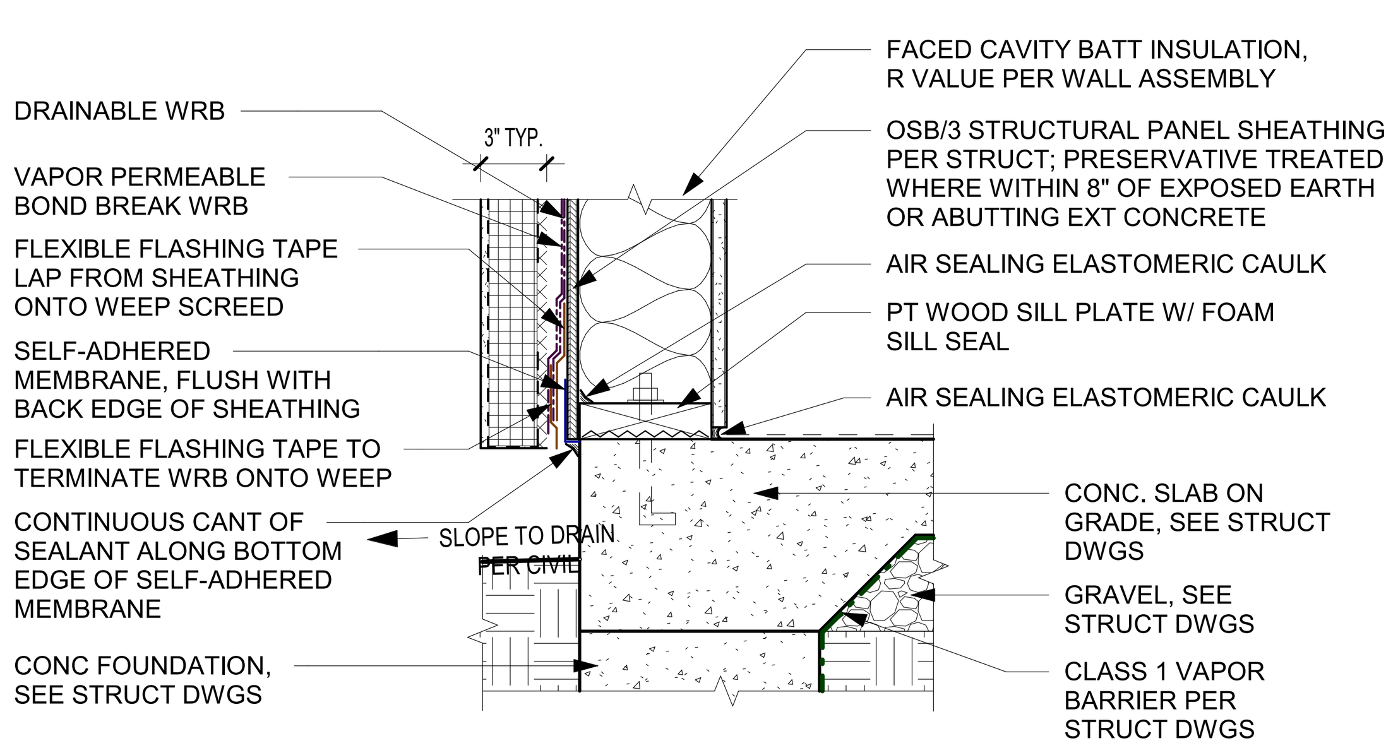
C3 BRICK SUPPORT ANGLE
N.T.S.



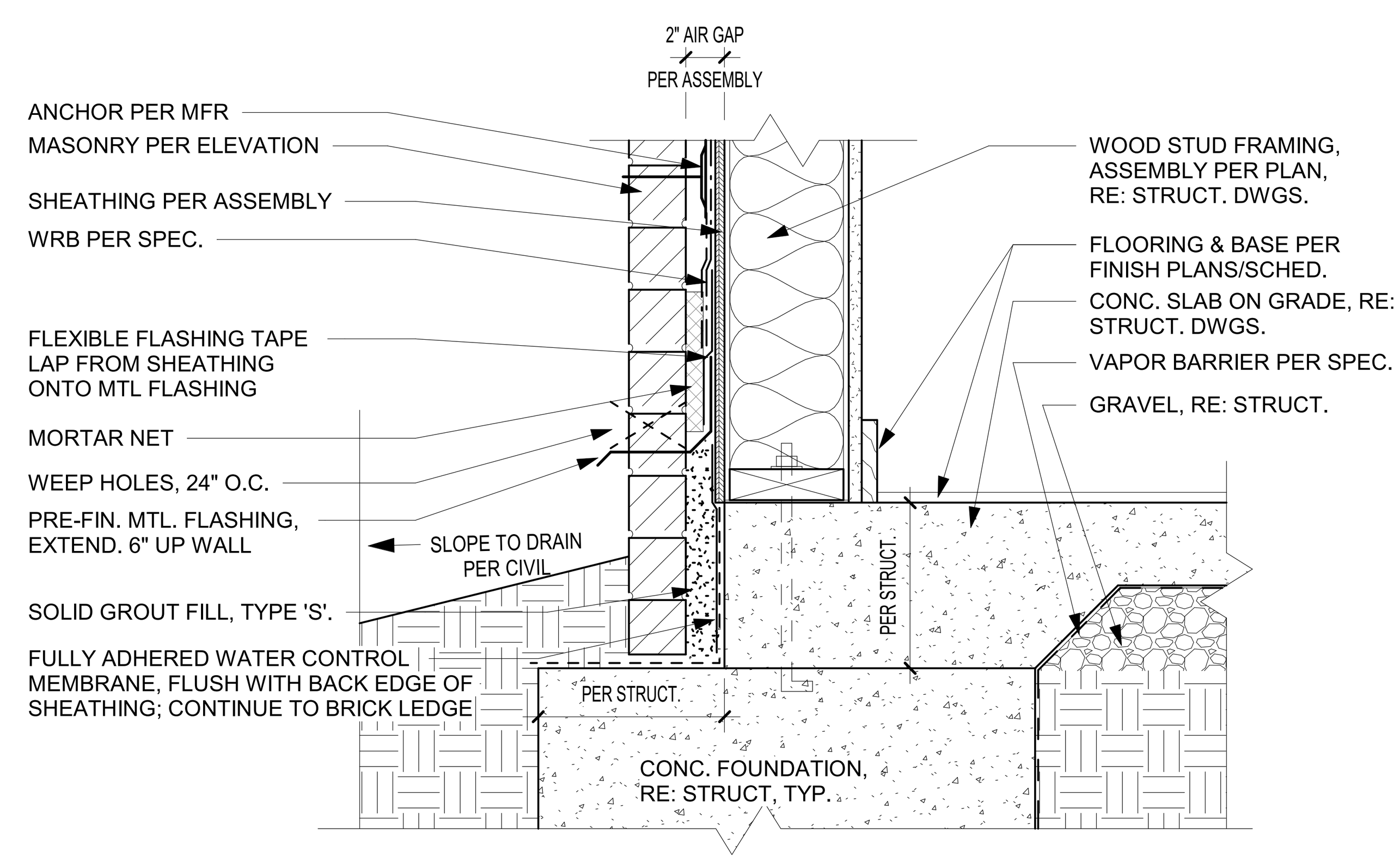
B3 FRAMING UPSET @ CORRIDORS
1 1/2" = 1'-0"



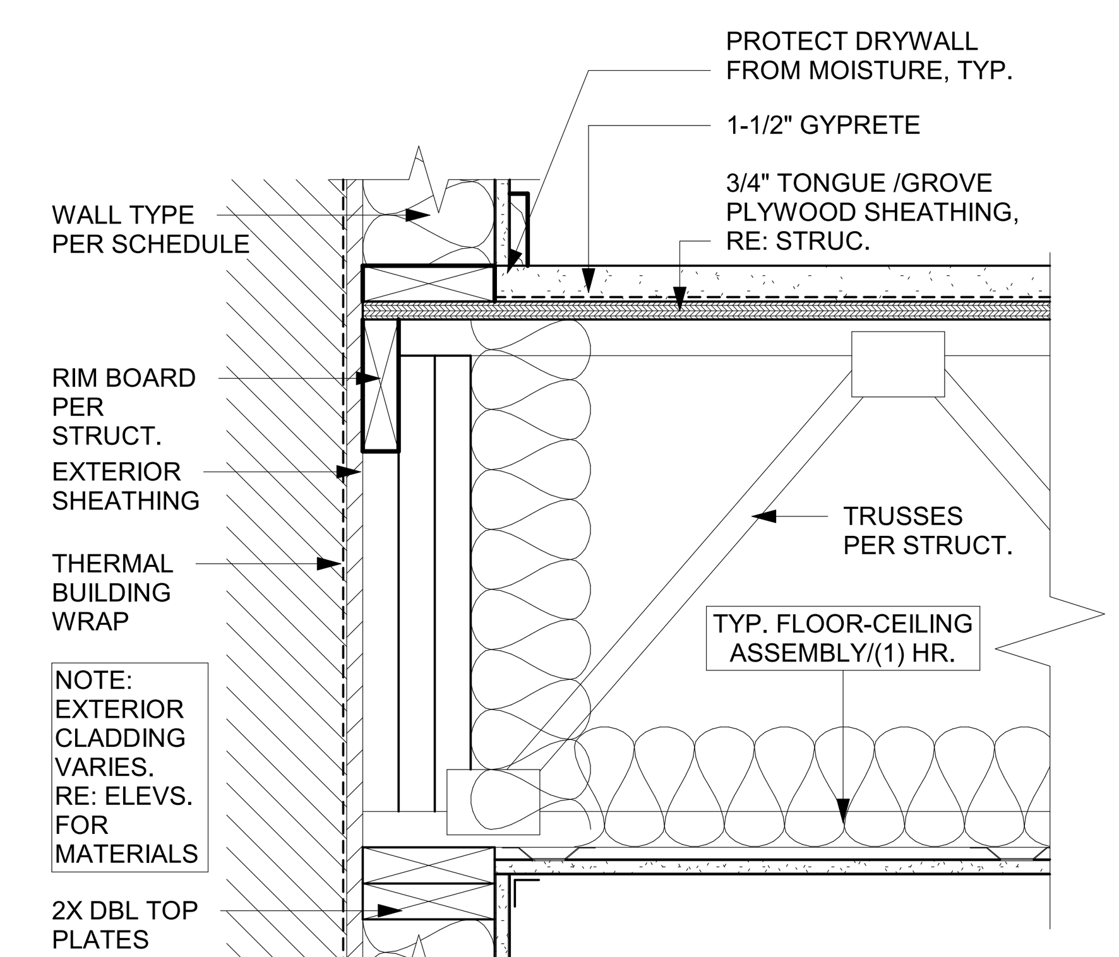
A3 PARTY WALL - SECTION 2
1 1/2" = 1'-0"



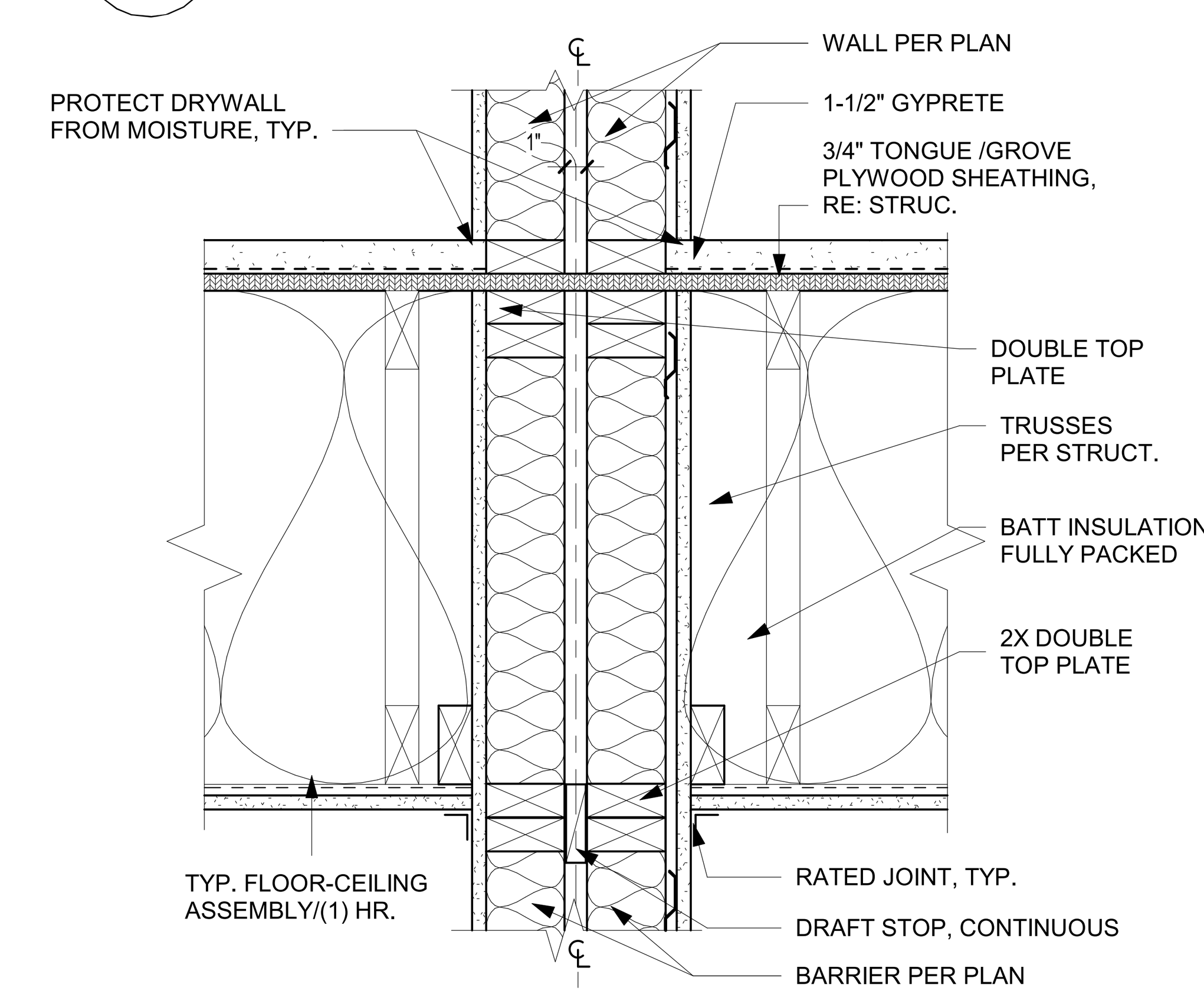
D2 FOUNDATION - EIFS @ GRADE
1 1/2" = 1'-0"



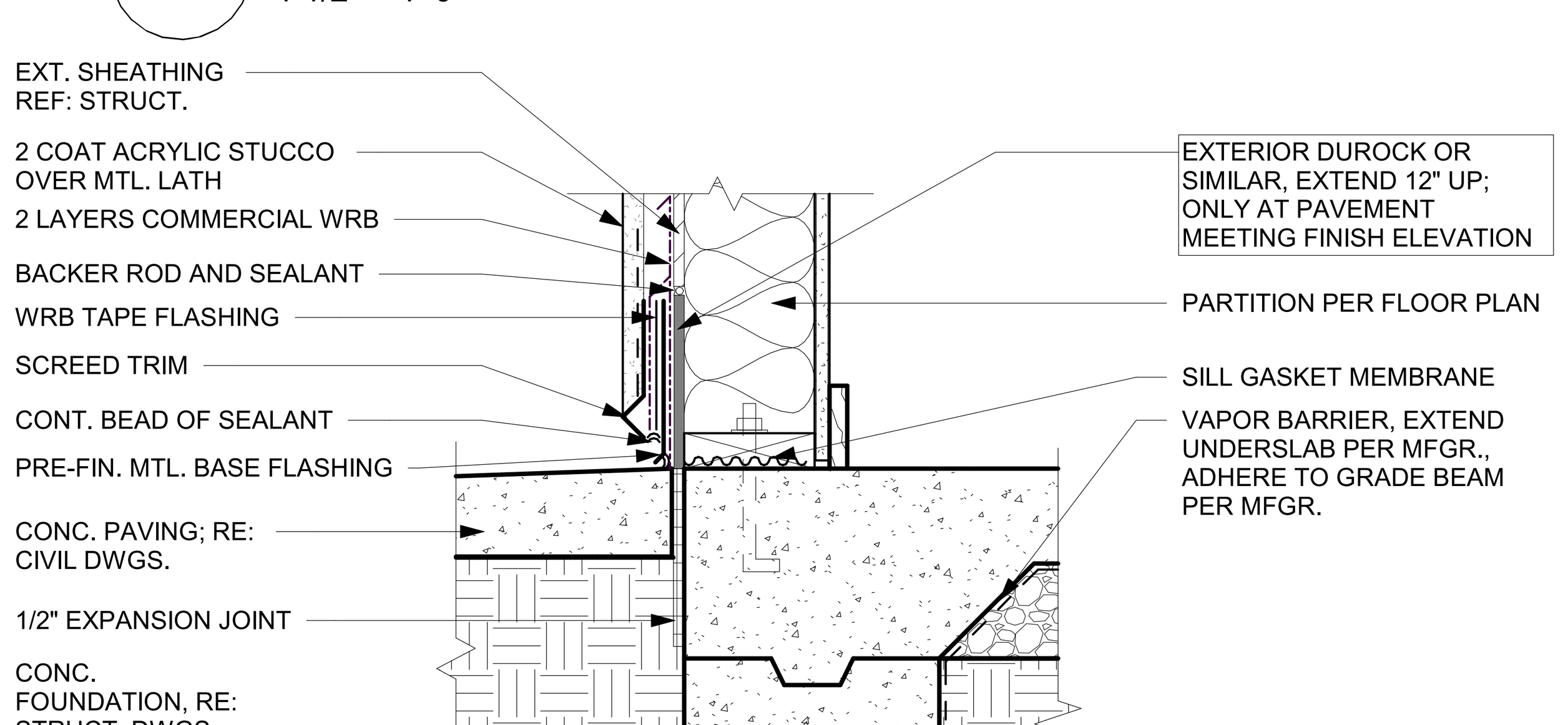
C2 FOUNDATION AT GRADE
1 1/2" = 1'-0"



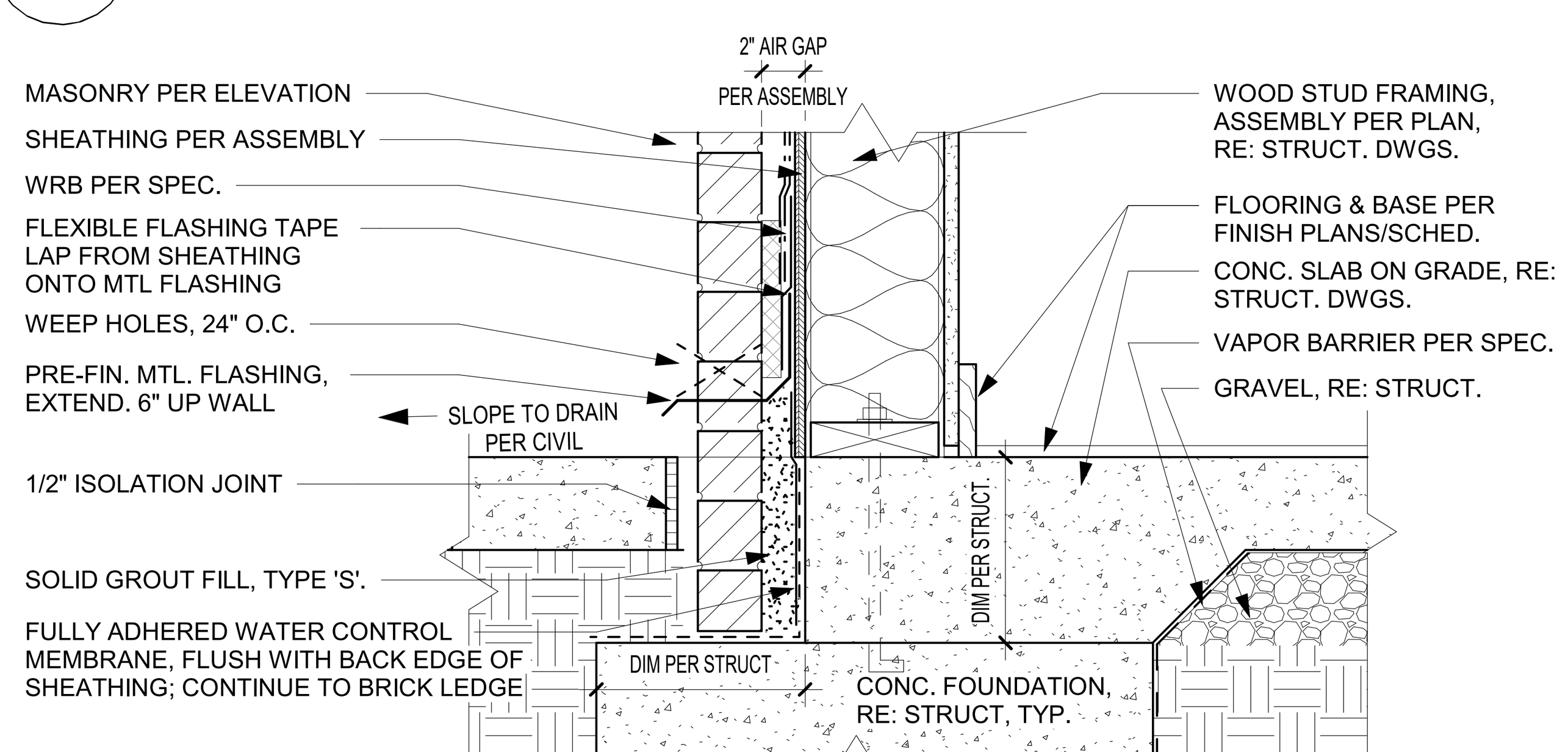
B2 FRAMING FLOOR/CLG DTL.
1 1/2" = 1'-0"



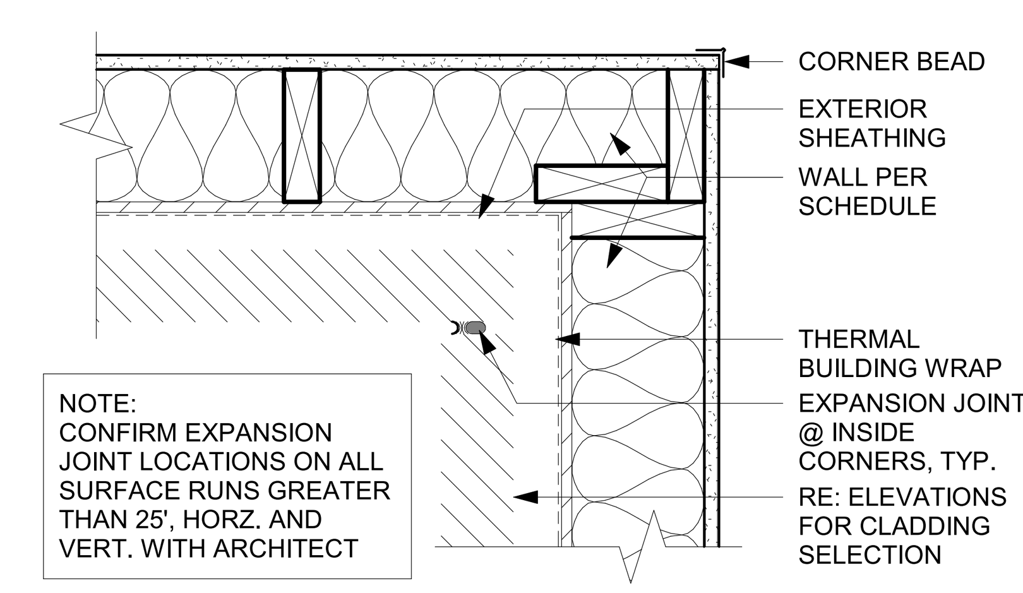
A2 PARTY WALL - SECTION
1 1/2" = 1'-0"



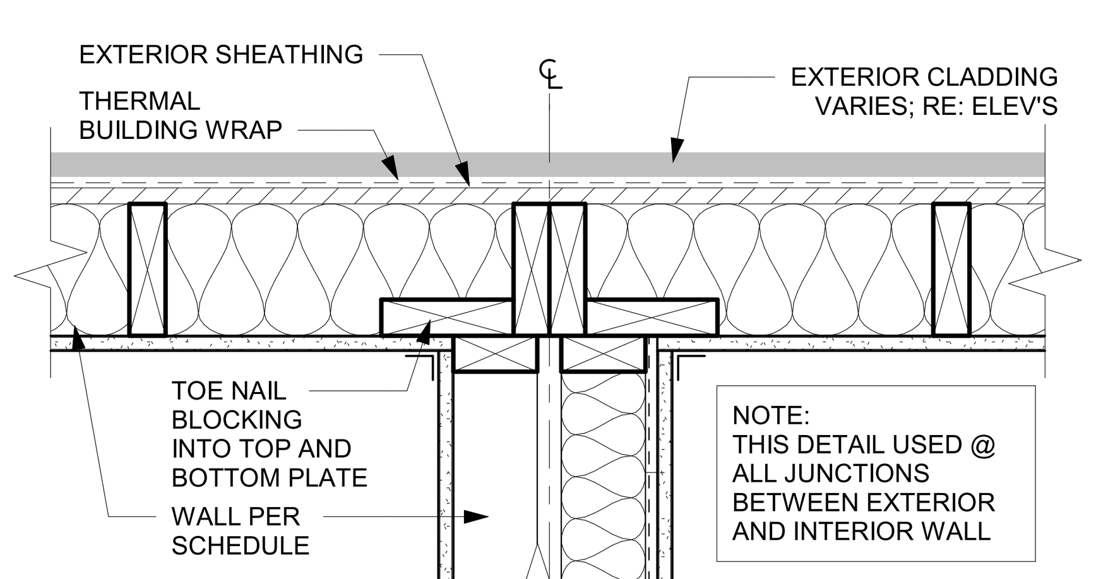
D1 STUCCO @ HARDSCAPE
1 1/2" = 1'-0"



C1 FOUNDATION AT HARDSCAPE
1 1/2" = 1'-0"



B1 FRAMING INSIDE CORNER
1 1/2" = 1'-0"



A1 PARTITION WALL FIRE SEPERATION DETAIL
1 1/2" = 1'-0"

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STATE OF MISSOURI
DAVID EUGENE HENDRIKSE
NUMBER A-7305
REGISTERED ARCHITECT
04/17/2024

HOME2 SUITES BY HILTON

LEE'S SUMMIT, MO

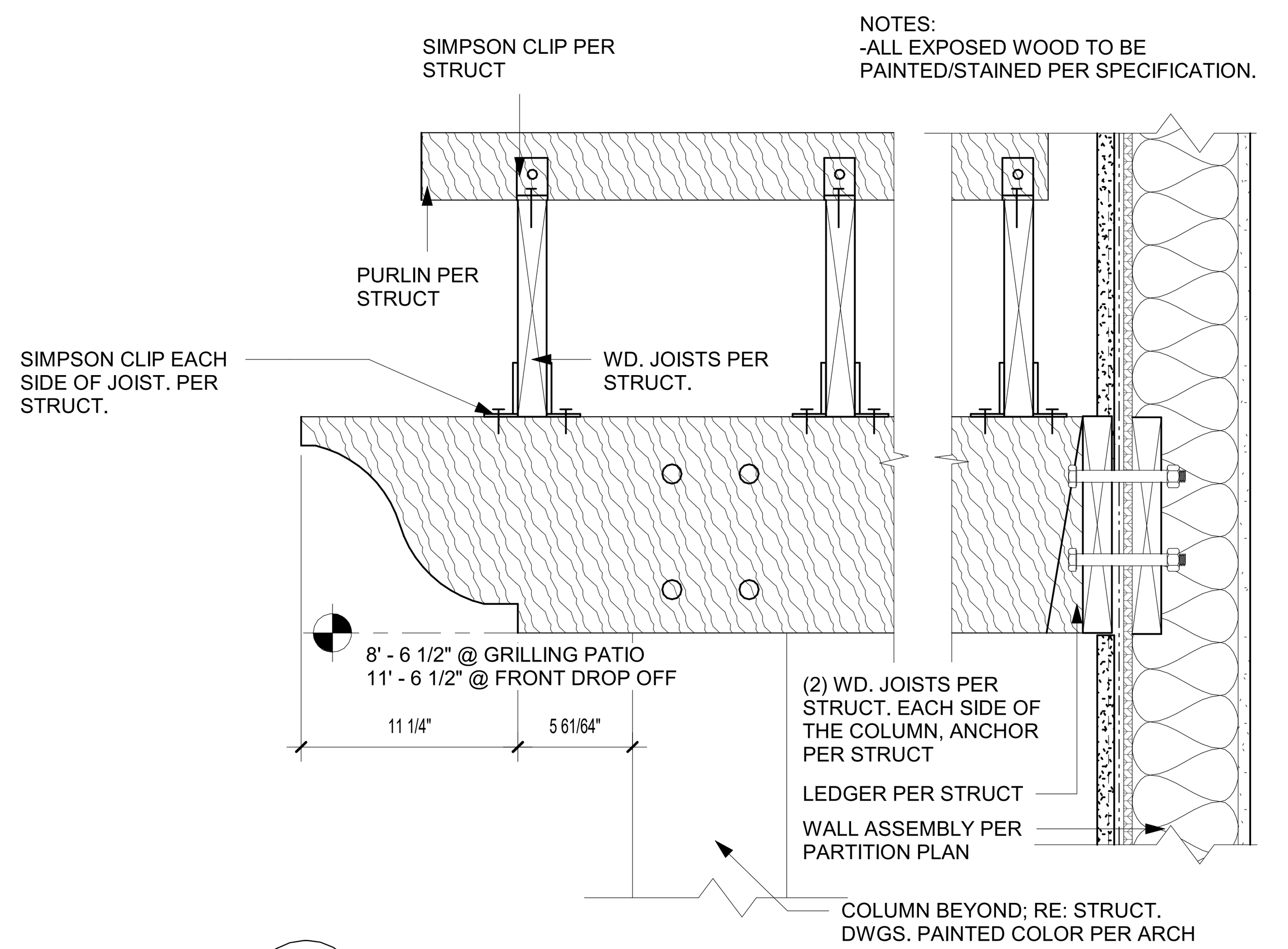
SHEET TITLE
DETAILS

PROJECT NUMBER: 22023

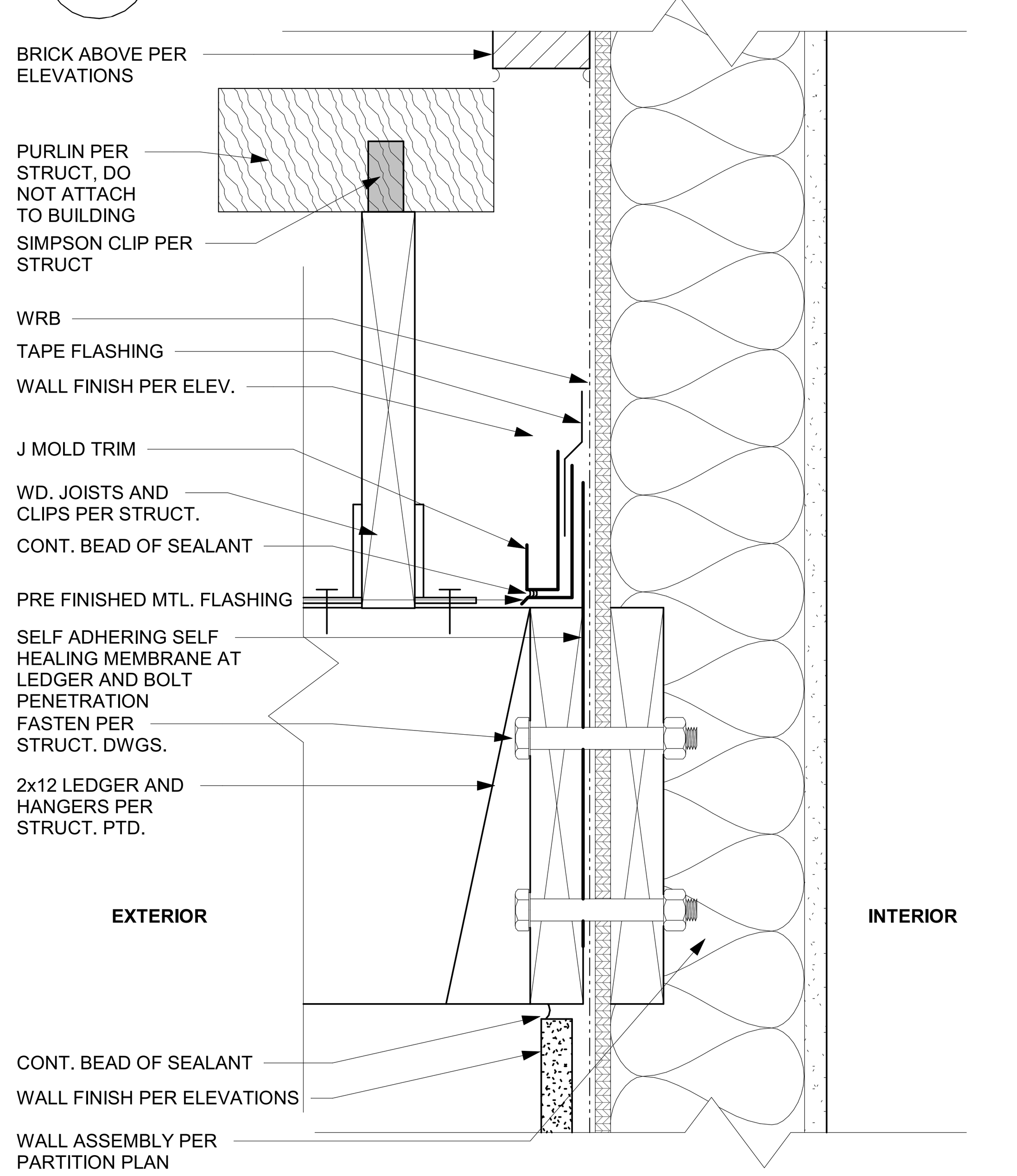
SHEET NUMBER:

A-500

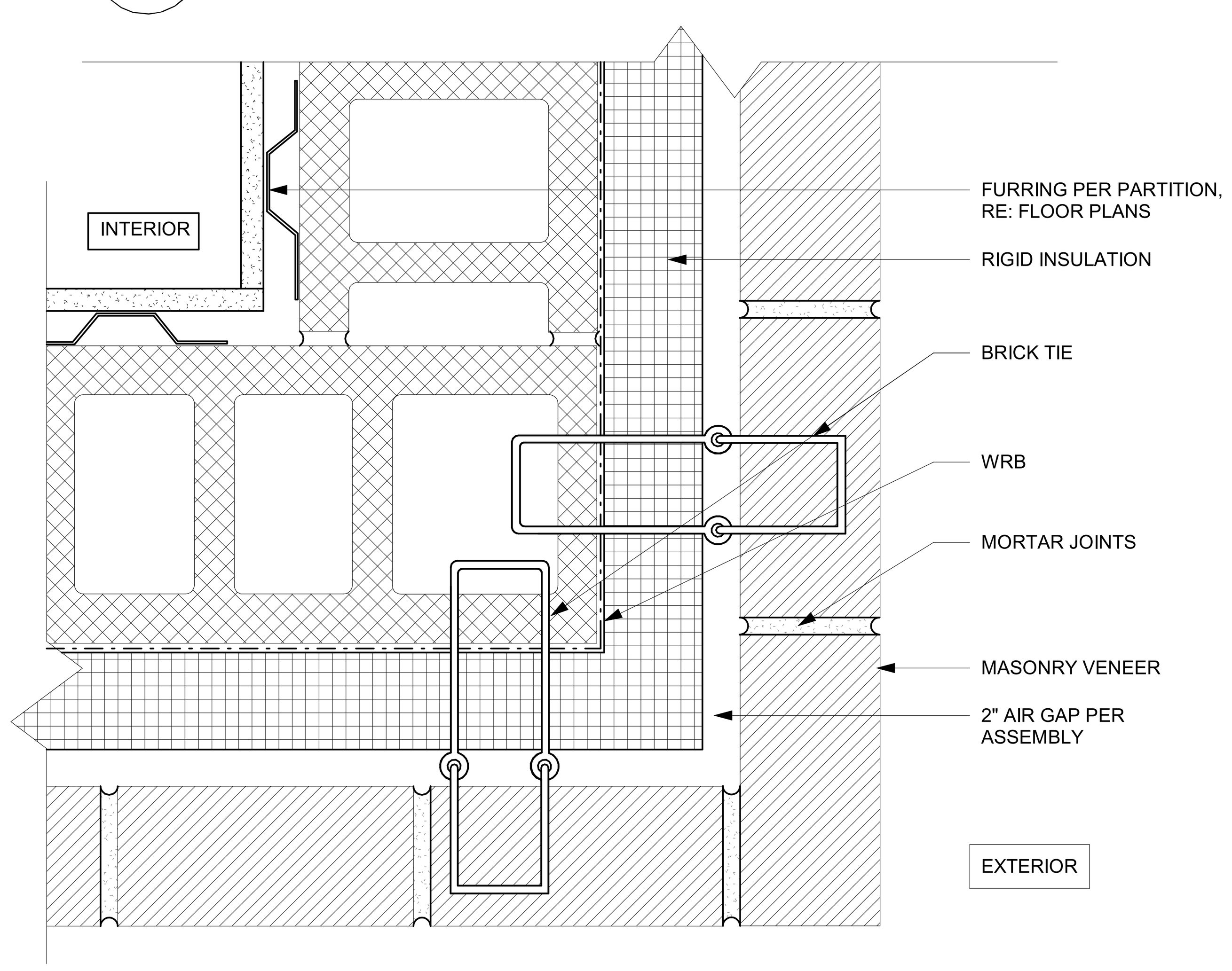
REFERENCE G-003 FOR GENERAL NOTES



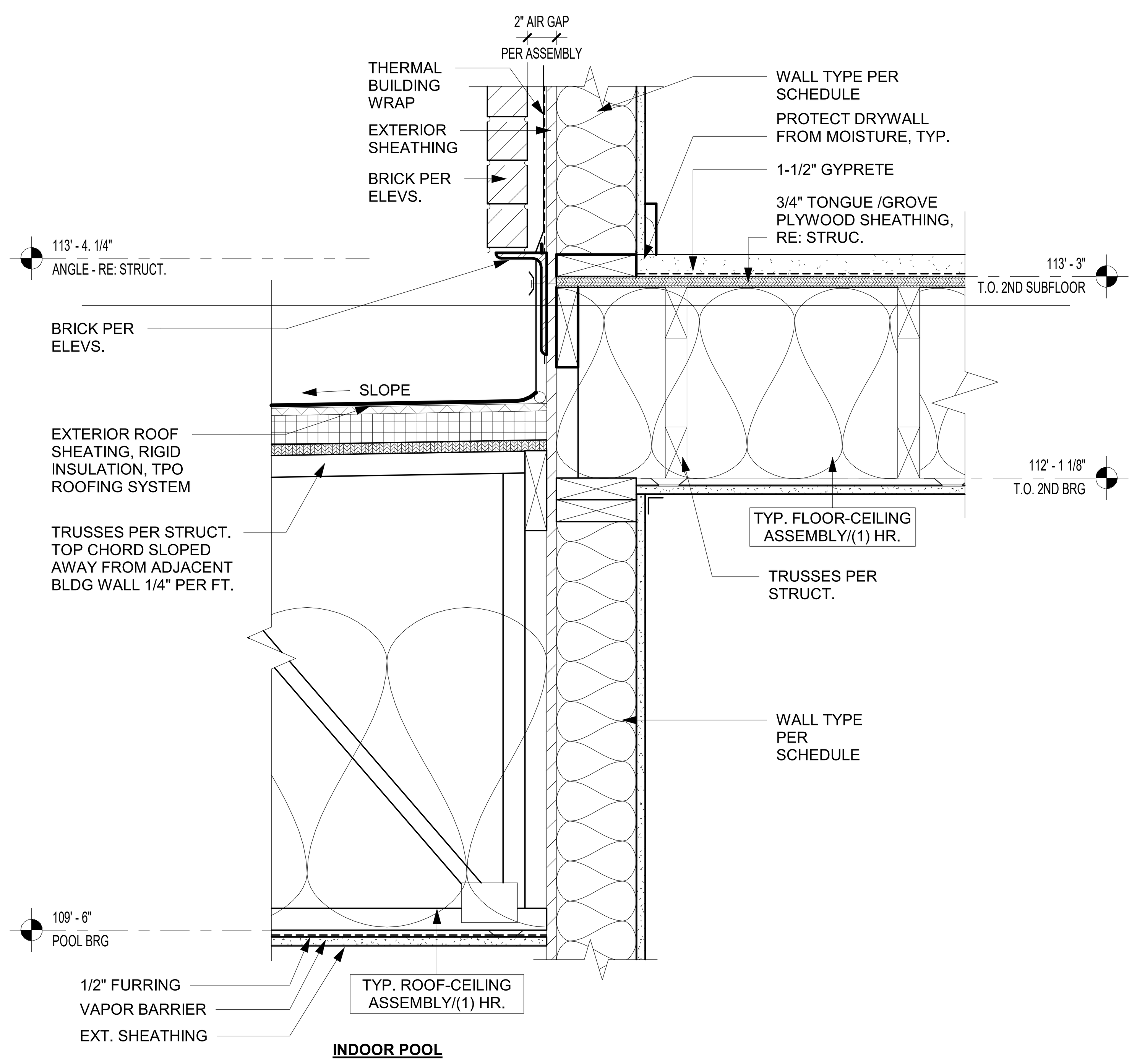
C3 PERGULA SECTION
1 1/2" = 1'-0"



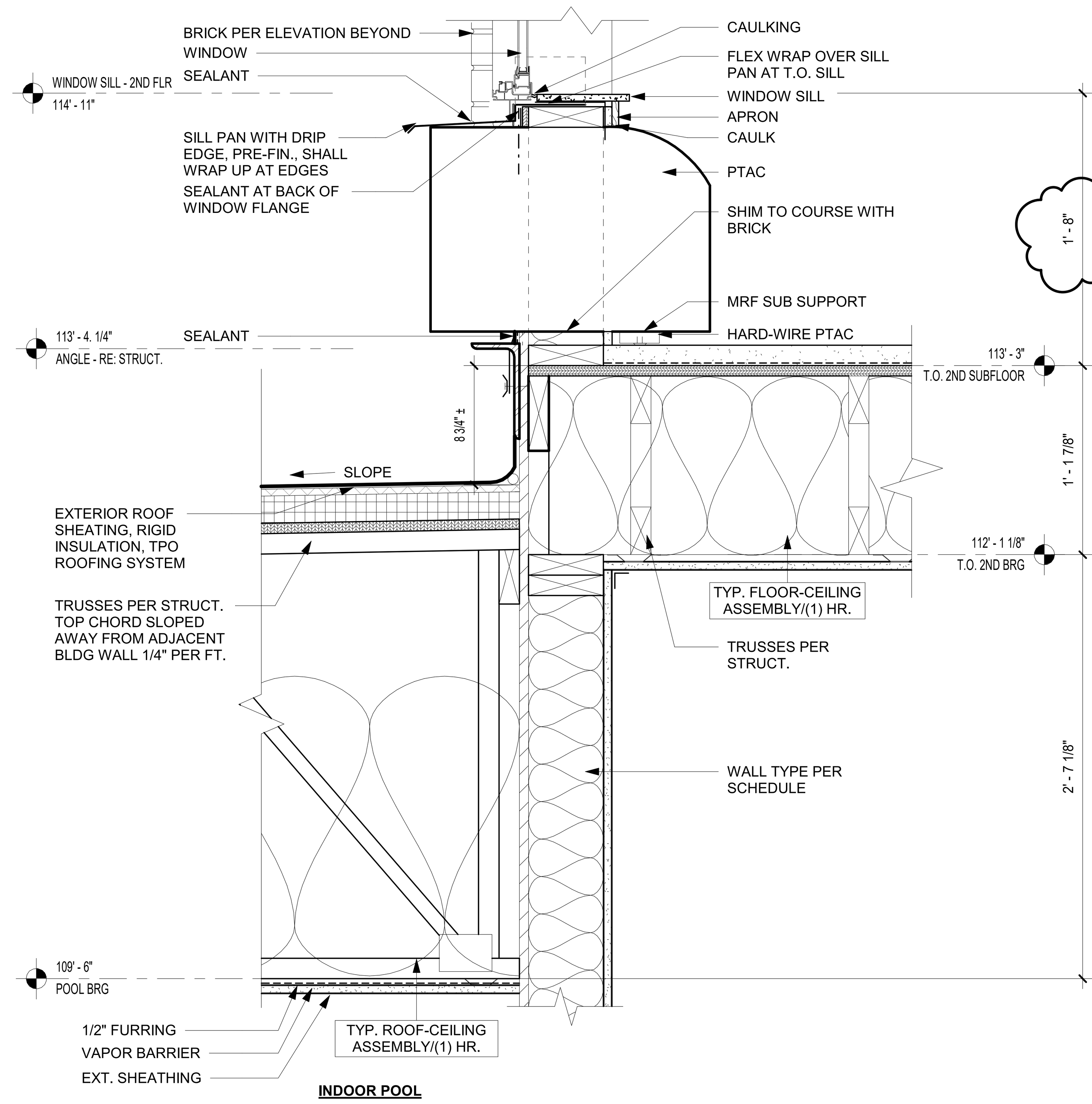
C2 PERGULA CONNECTION
3" = 1'-0"



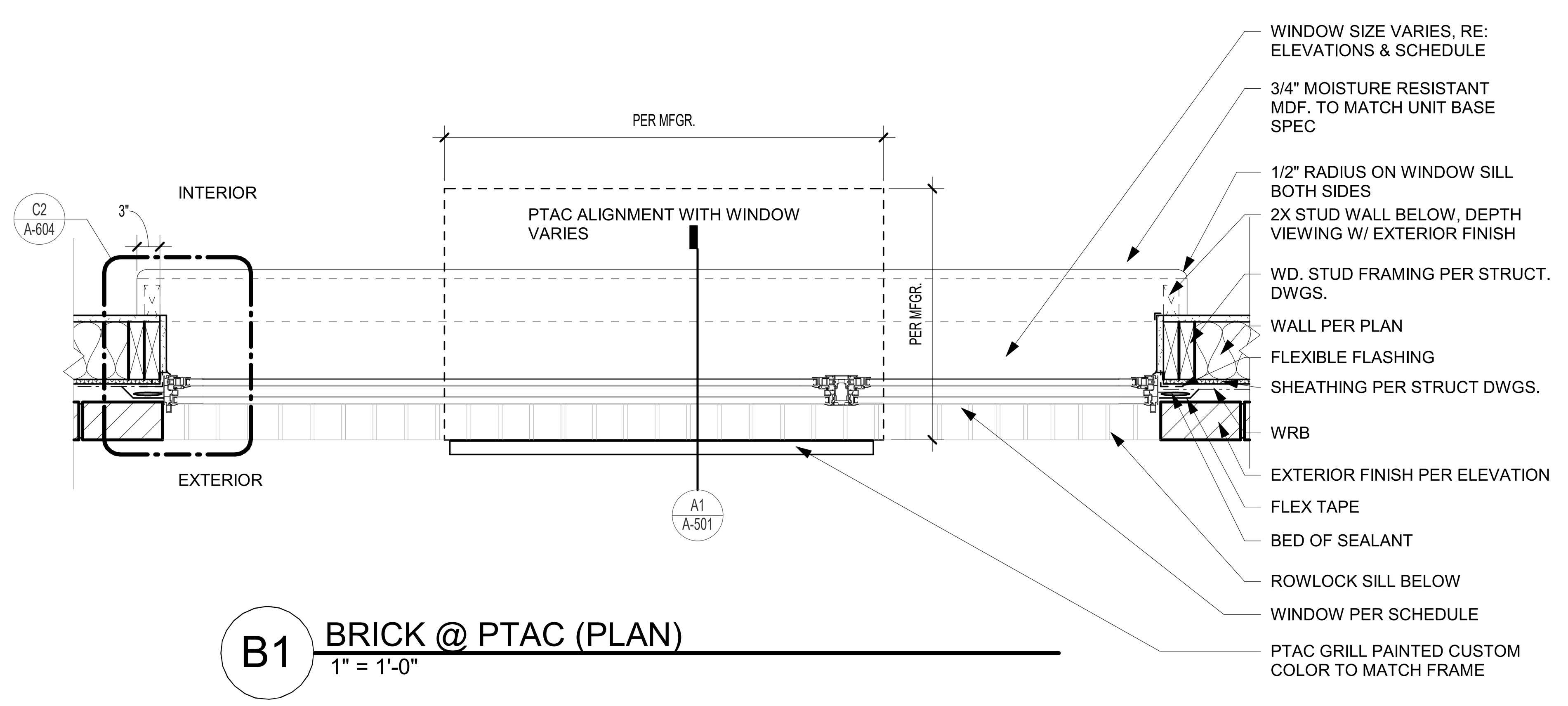
C1 WALL/EXTERIOR - CMU/BRICK @ OUTSIDE CORNER (PLAN)
3" = 1'-0"



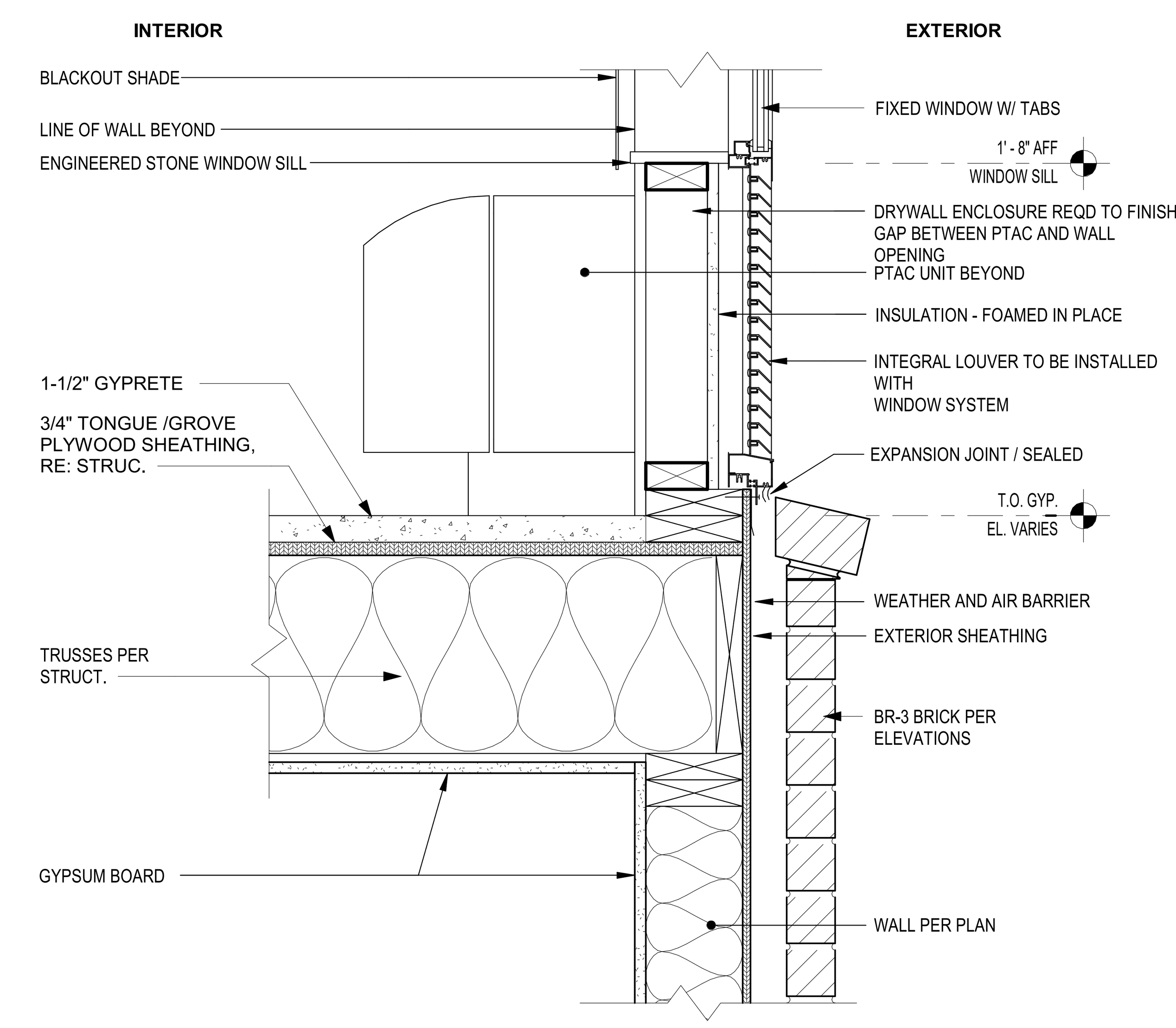
B2 FRAMING - POOL ROOF DETAIL
1 1/2" = 1'-0"



A2 FRAMING - POOL ROOF DETAIL @ WINDOW
1 1/2" = 1'-0"



B1 BRICK @ PTAC (PLAN)
1" = 1'-0"



A1 FRAMING @ PTAC
1 1/2" = 1'-0"

PRINTS ISSUED
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REVISIONS:
1 05/17/2024 CITY RESPONSE

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NUMBER A-7305
REGISTERED ARCHITECT
05/17/2024

HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

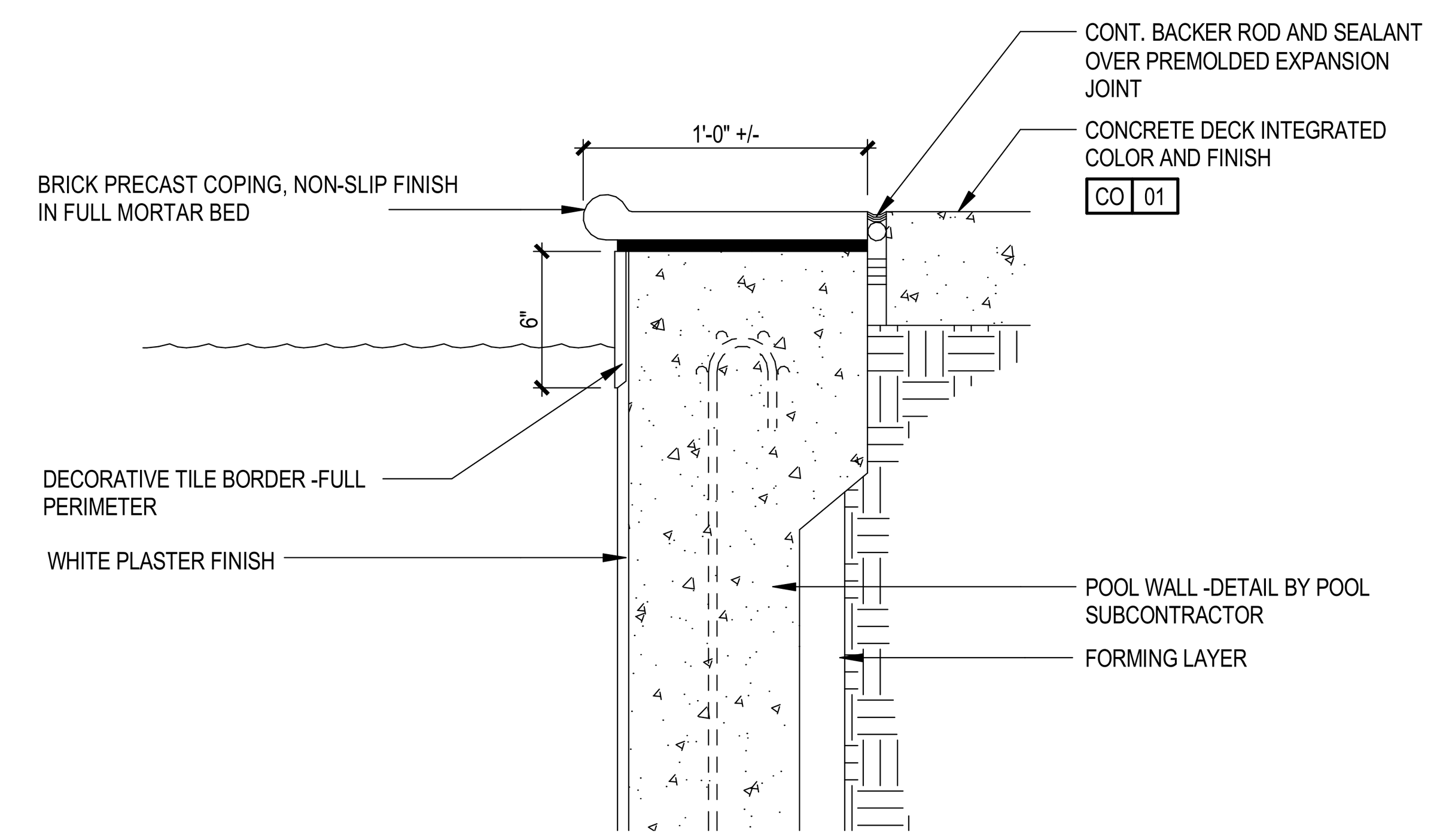
SHEET TITLE
DETAILS

PROJECT NUMBER: 22023

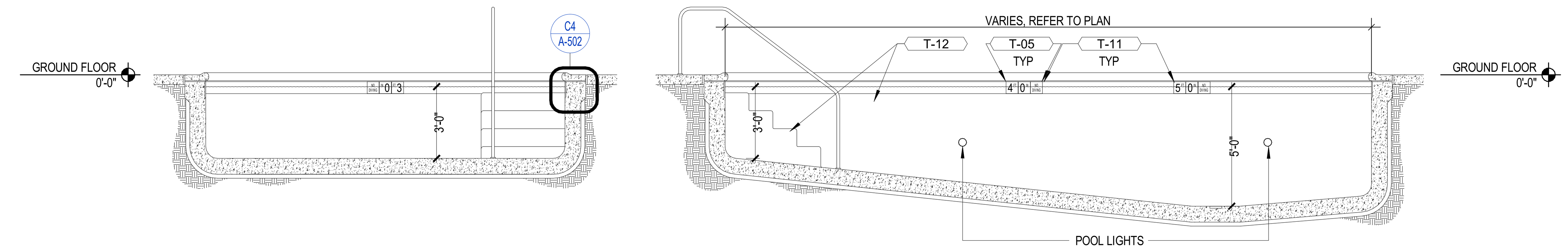
SHEET NUMBER:

A-501

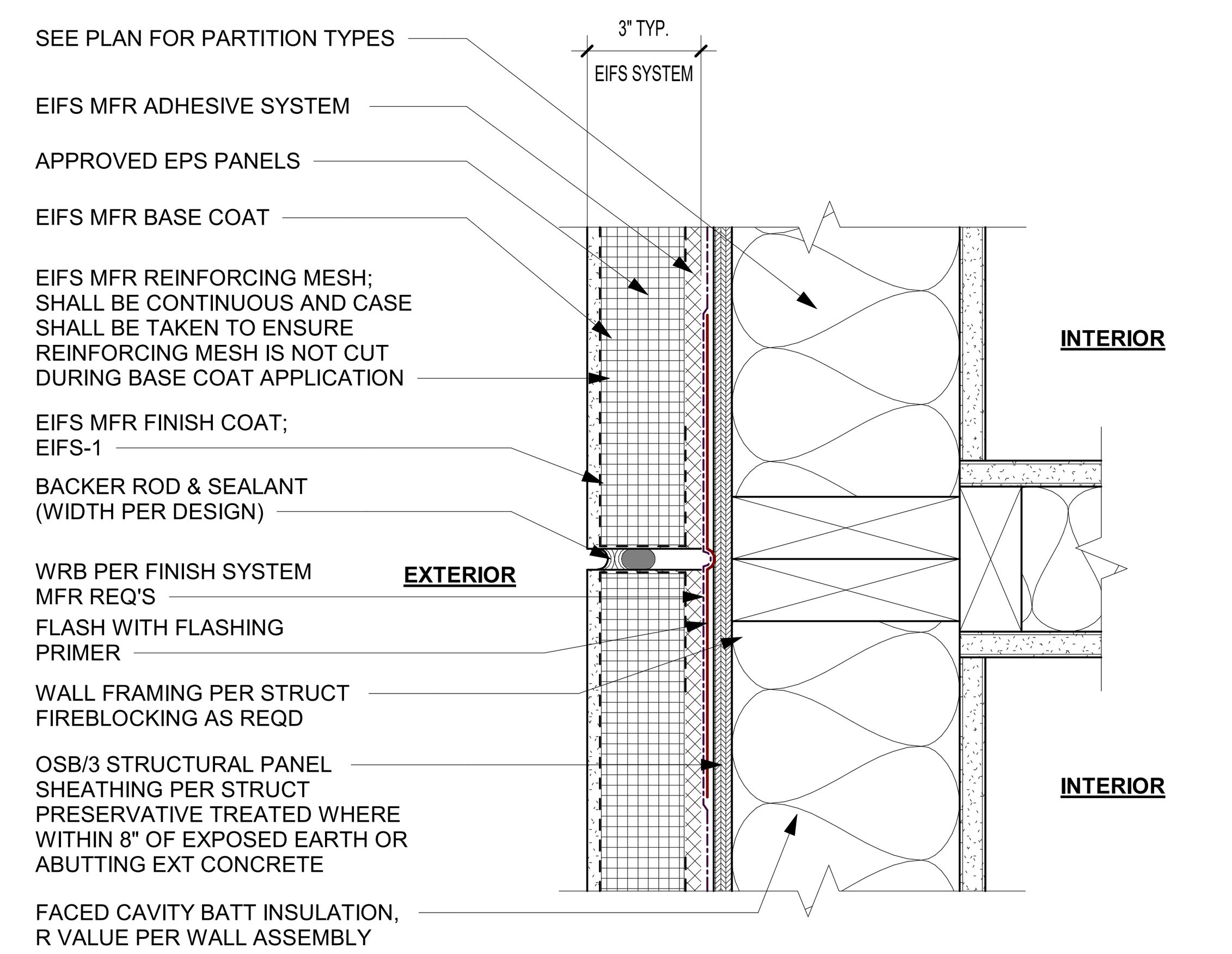
REFERENCE G-003 FOR GENERAL NOTES



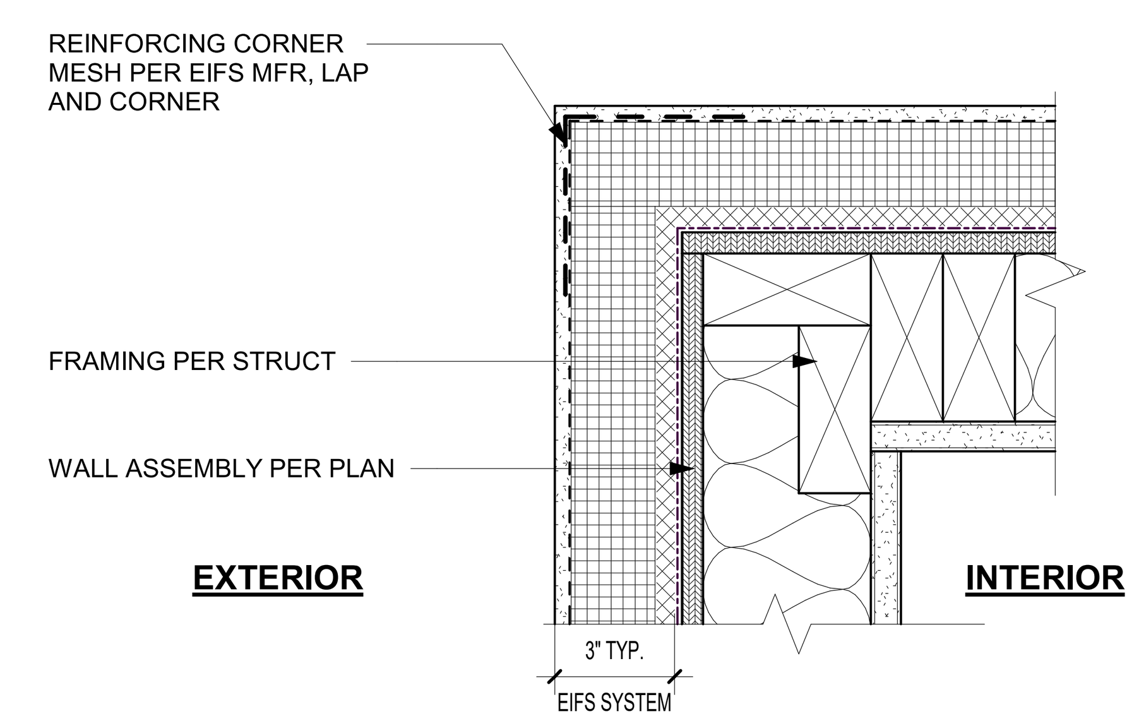
C4 POOL COPING
1 1/2" = 1'-0"



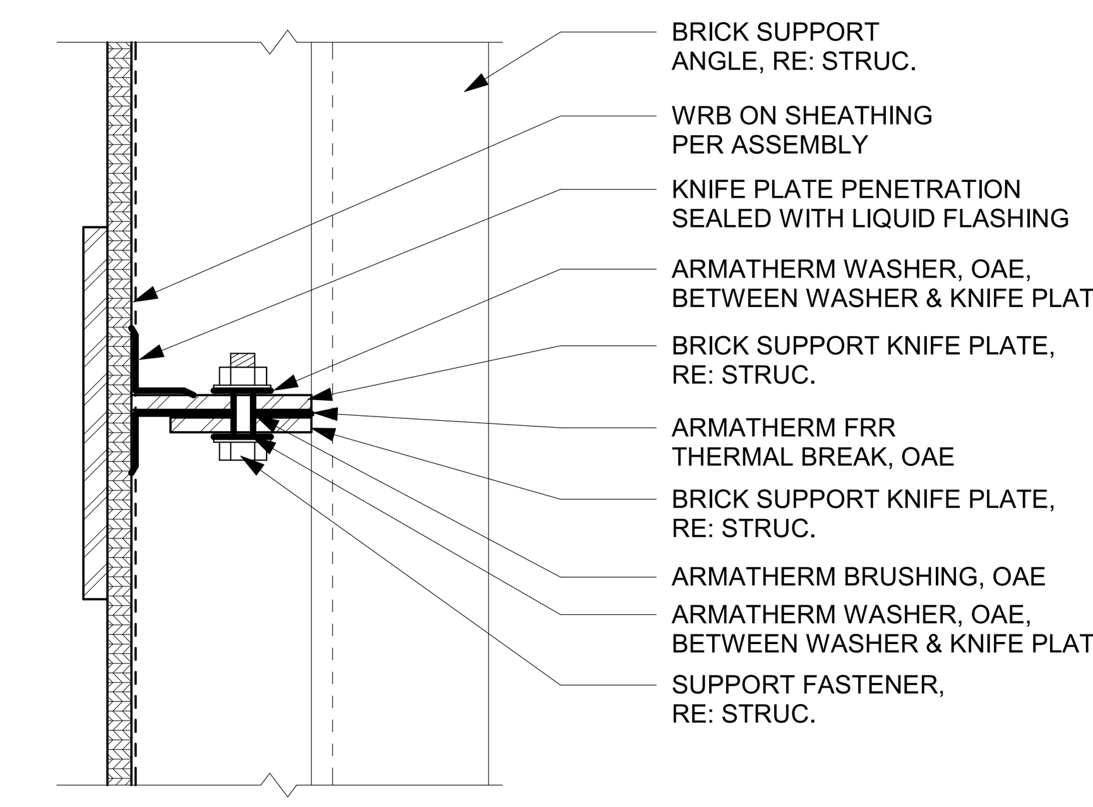
B4 POOL SECTIONS
1/4" = 1'-0"



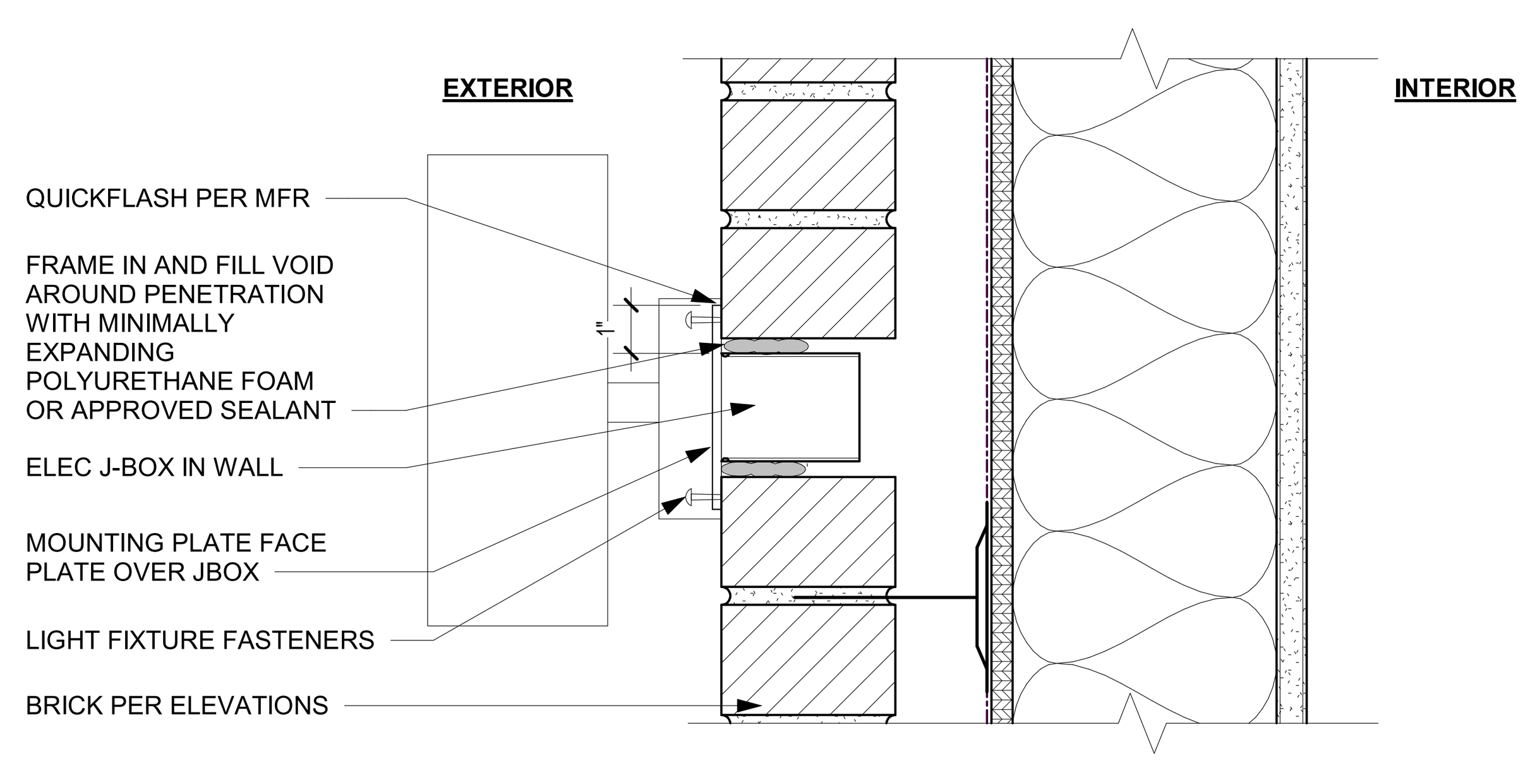
C3 EIFS - TYPICAL EXPANSION JOINT
3" = 1'-0"



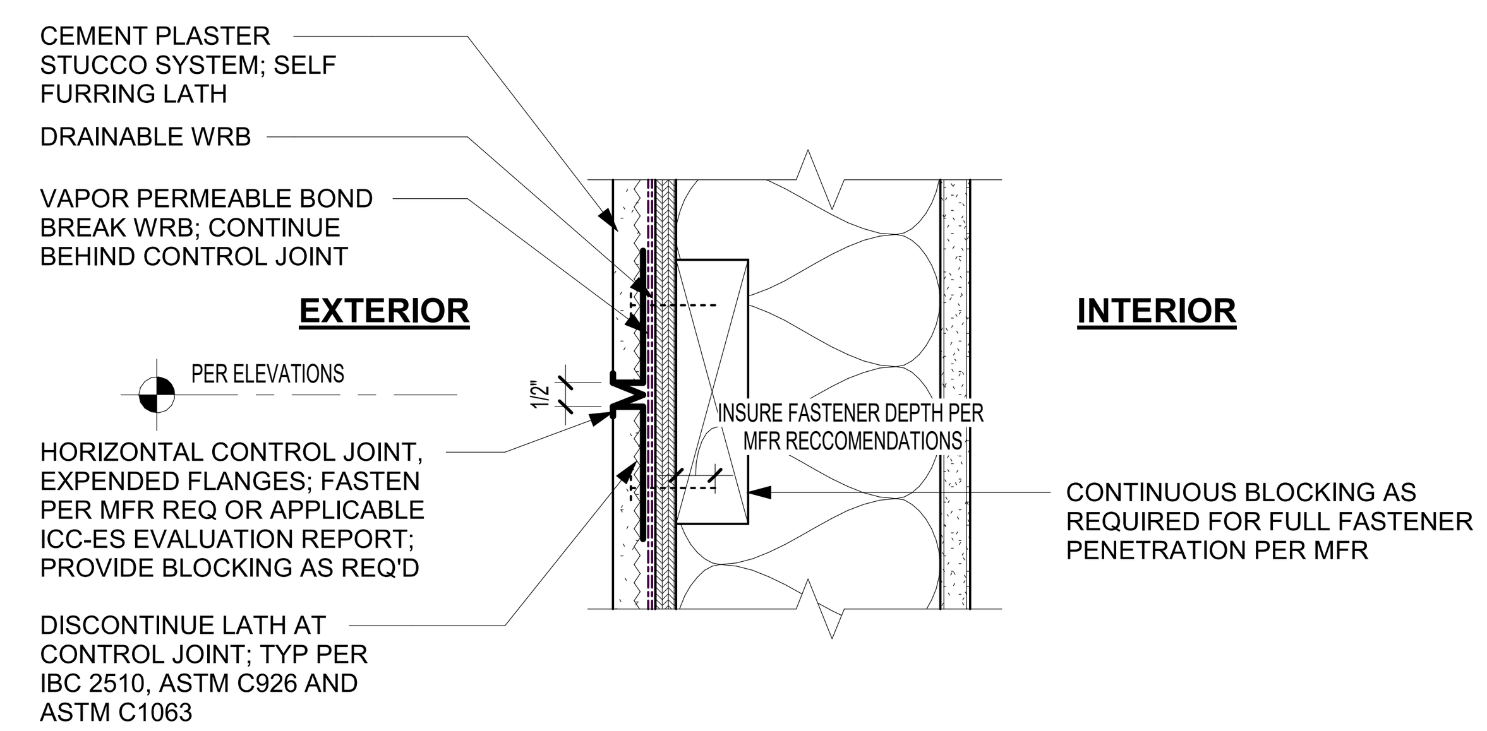
B3 EIFS - OUTSIDE CORNER (PLAN)
3" = 1'-0"



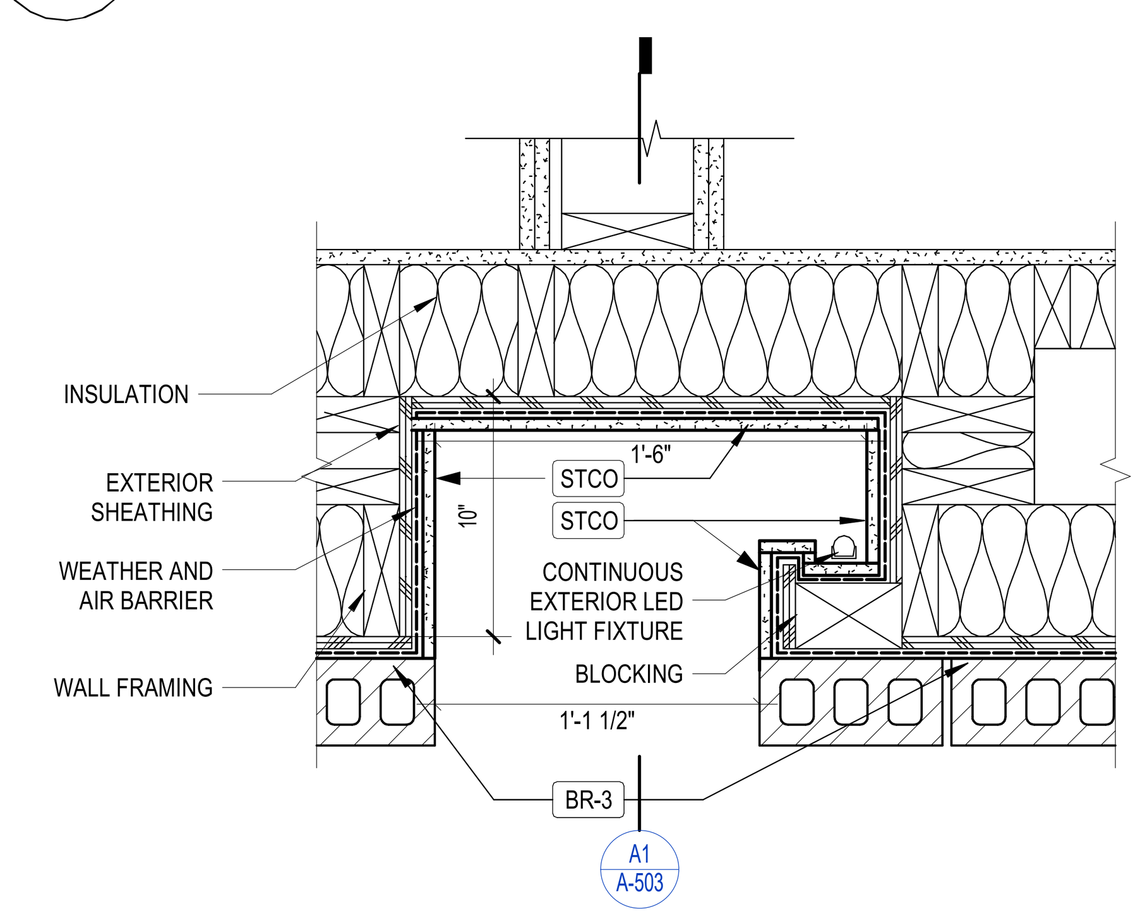
A3 KNIFE PLATE CONNECTION
N.T.S.



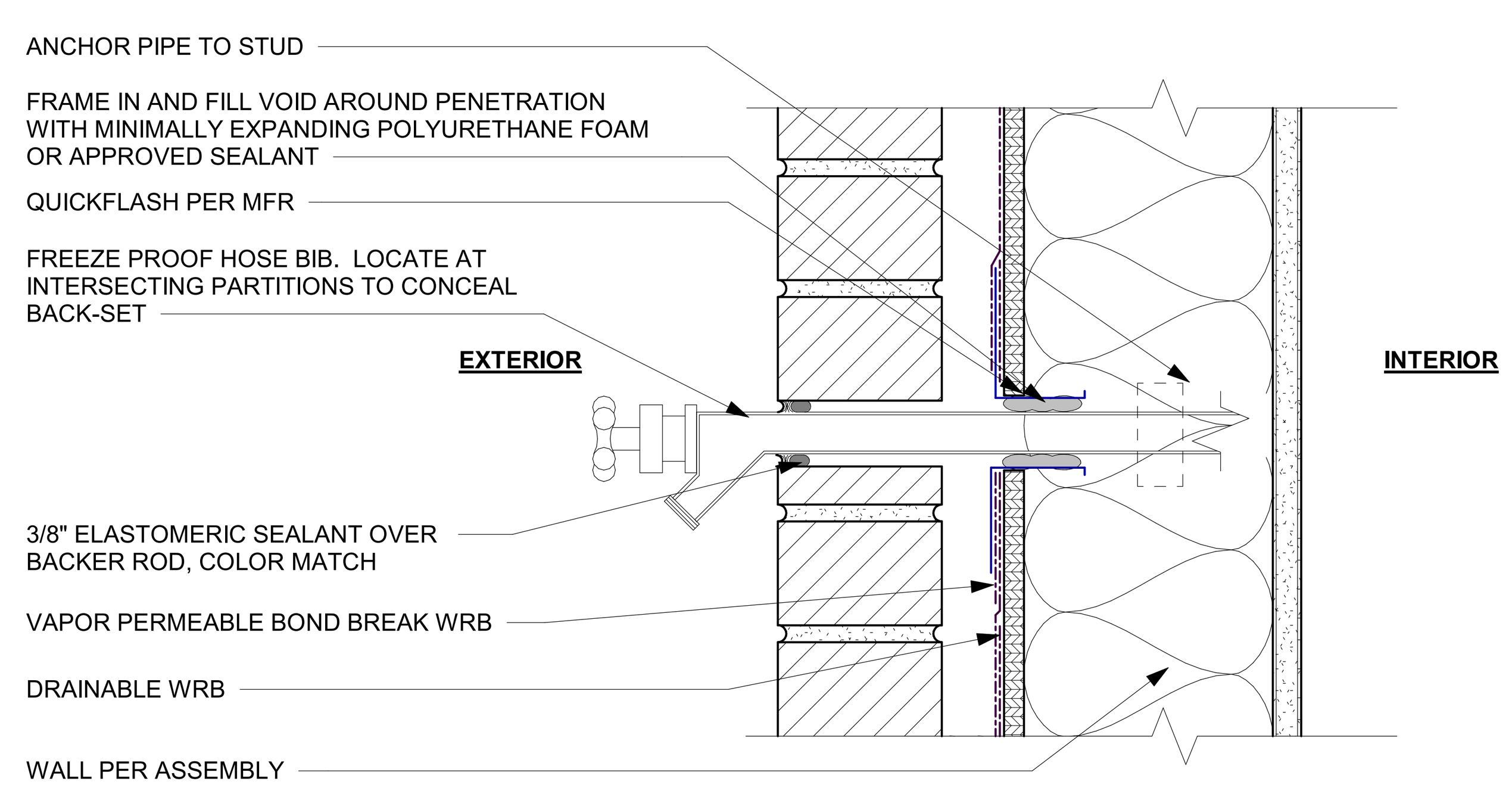
C2 FIXTURE PENETRATION
3" = 1'-0"



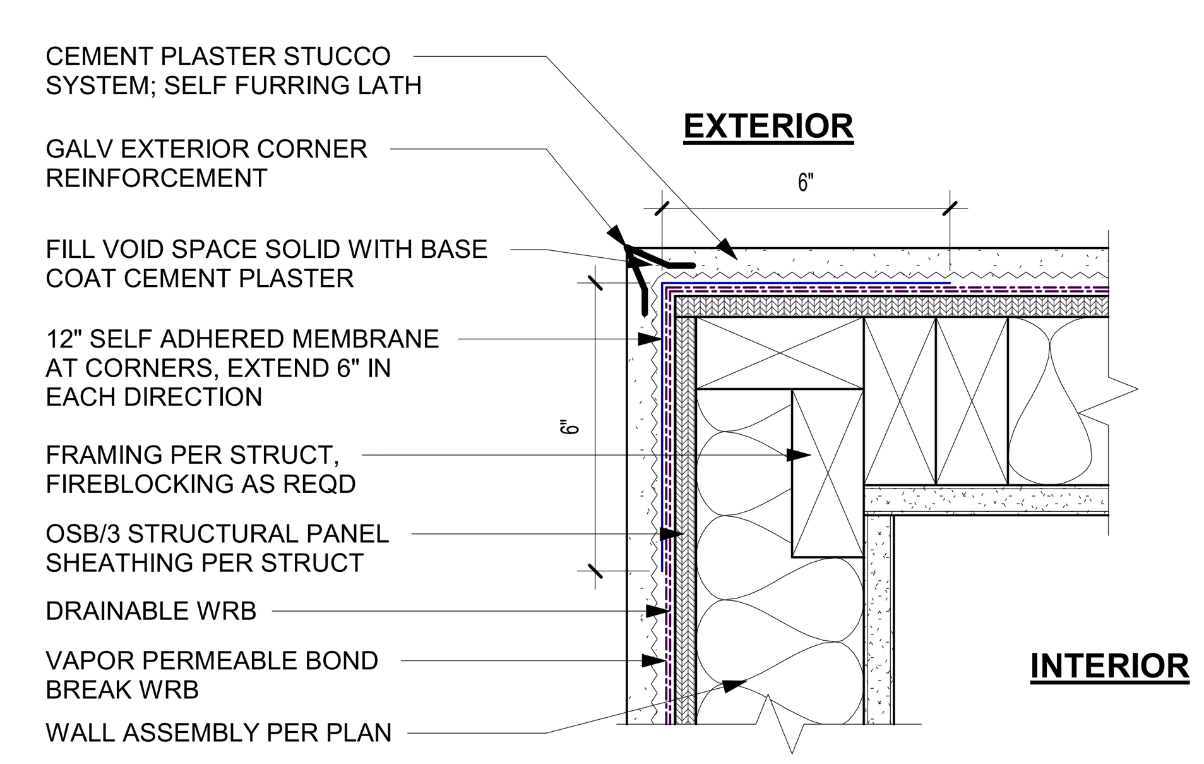
B2 STUCCO - HORIZONTALCONTROL JOINT
3" = 1'-0"



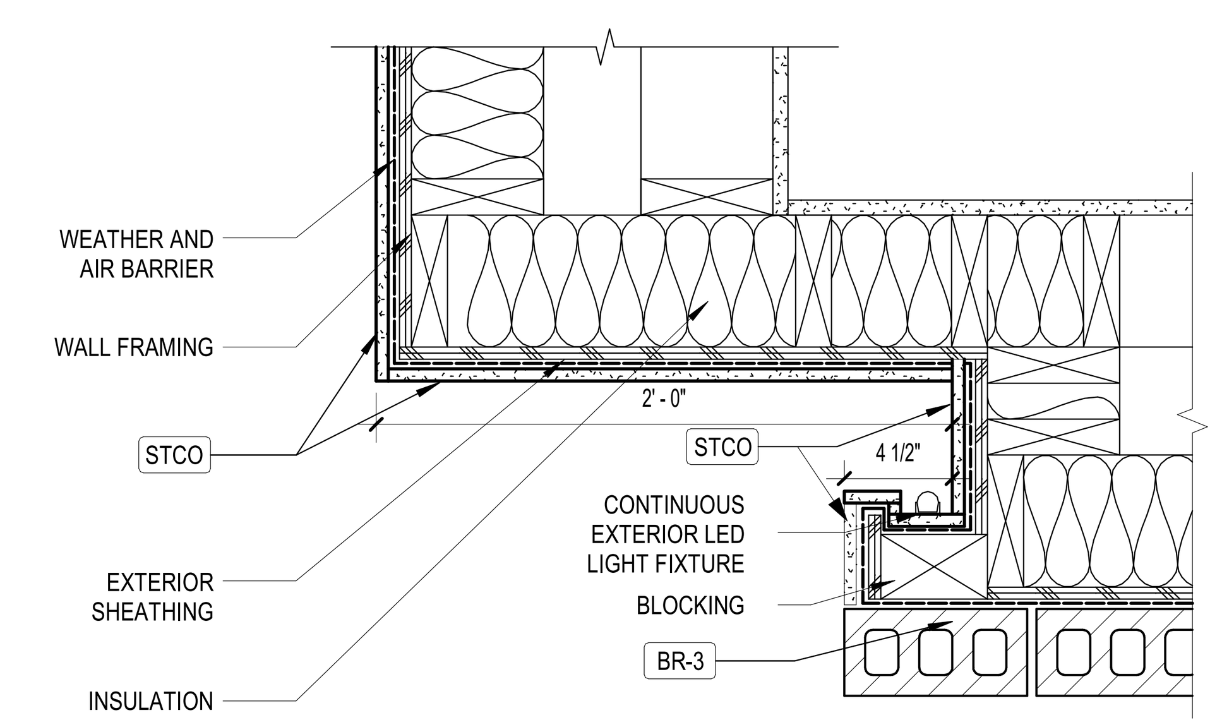
A2 REVEAL - LEVEL 2-4
1 1/2" = 1'-0"



C1 HOSEBIB PENETRATION
3" = 1'-0"



B1 STUCCO - OUTSIDE CORNER (PLAN)
3" = 1'-0"



A1 REVEAL - LEVEL 1
1 1/2" = 1'-0"

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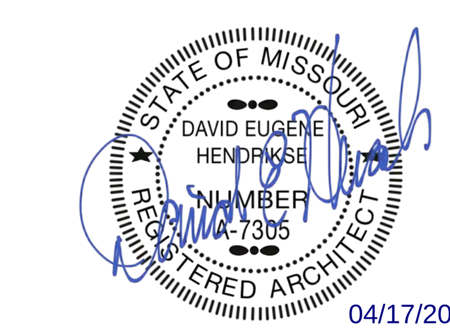


HOME2 SUITES BY HILTON

LEE'S SUMMIT, MO

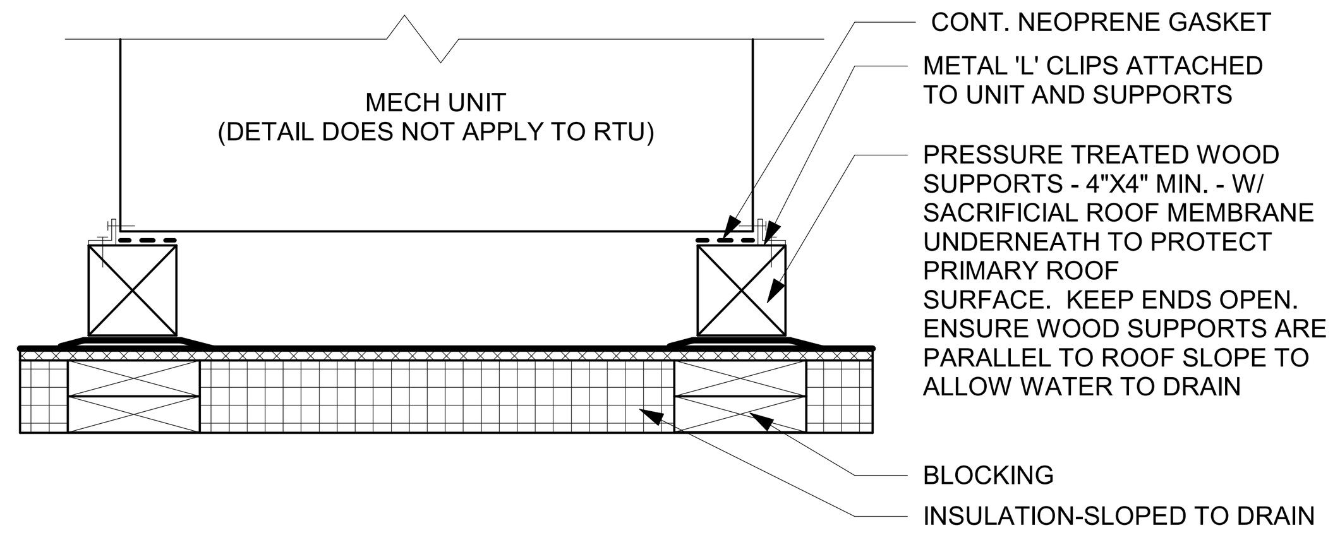
SHEET TITLE
DETAILS

PROJECT NUMBER: 22023

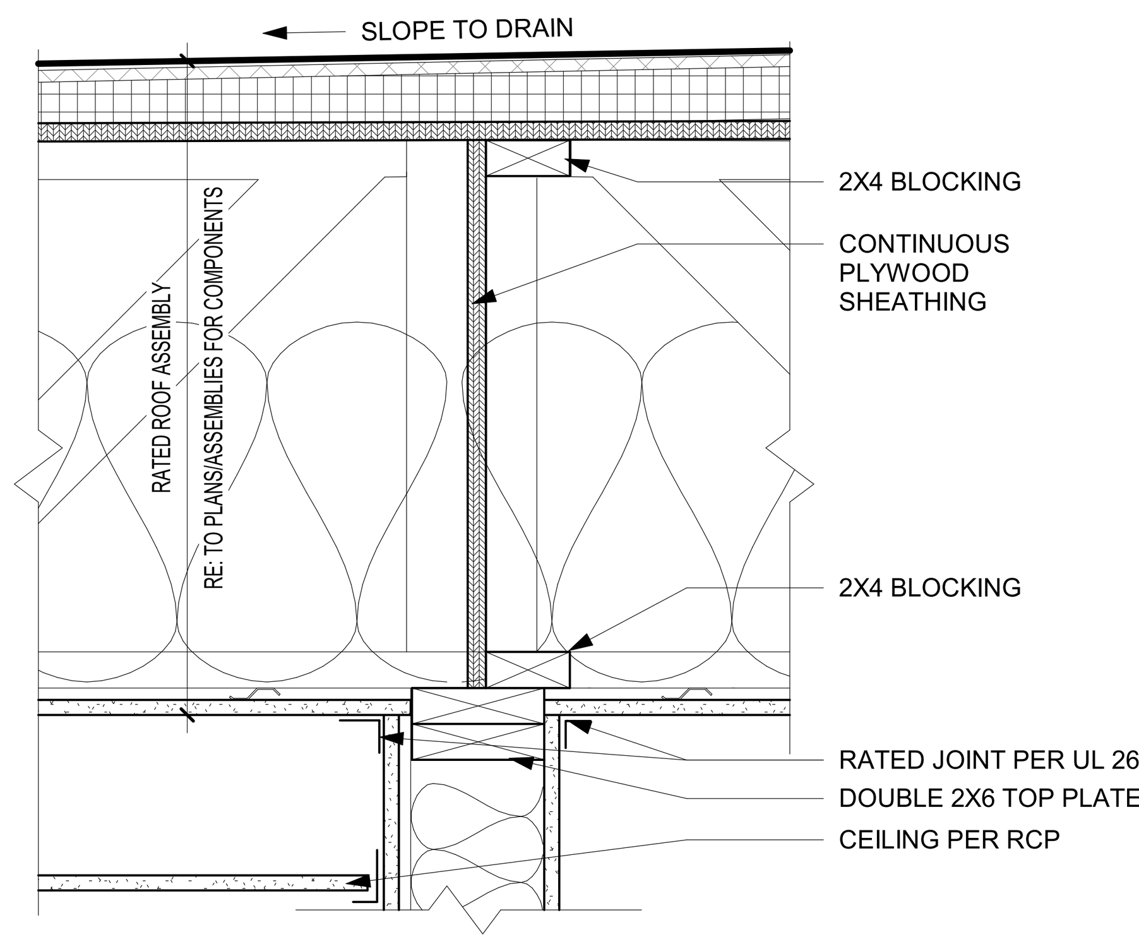
SHEET NUMBER:

A-502

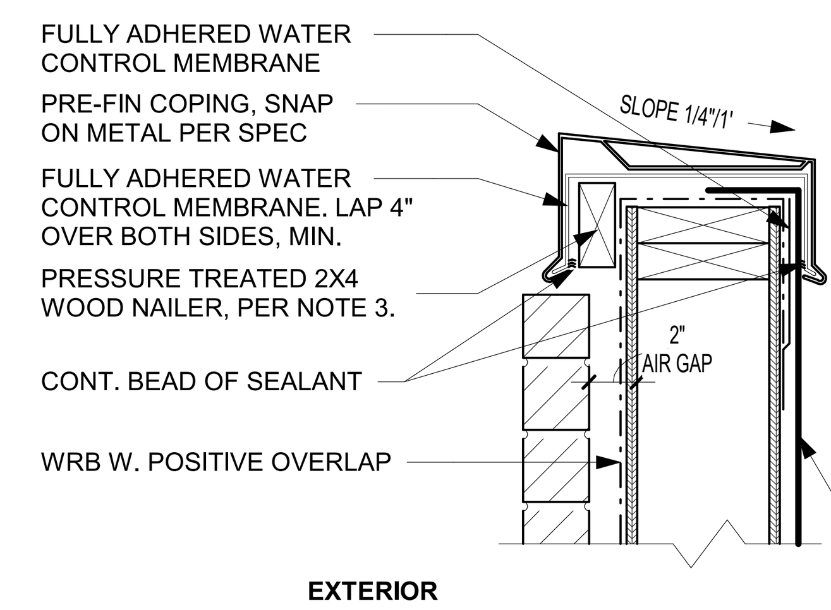
REFERENCE G-003 FOR GENERAL NOTES



D3 ROOF - MECH UNIT ROOF SUPPORT BLOCKS
1 1/2" = 1'-0"

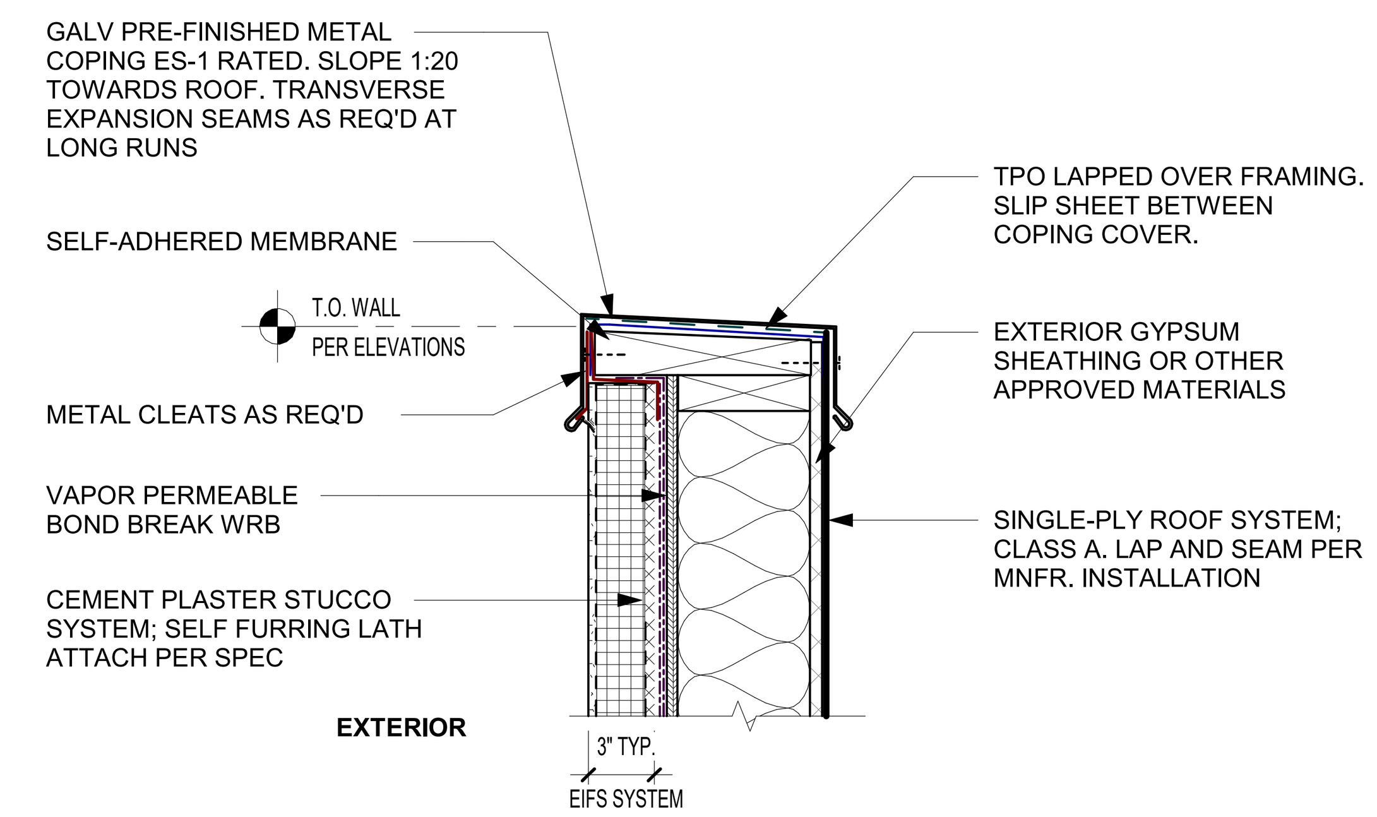


C3 ROOF DRAFT STOPPING
1 1/2" = 1'-0"

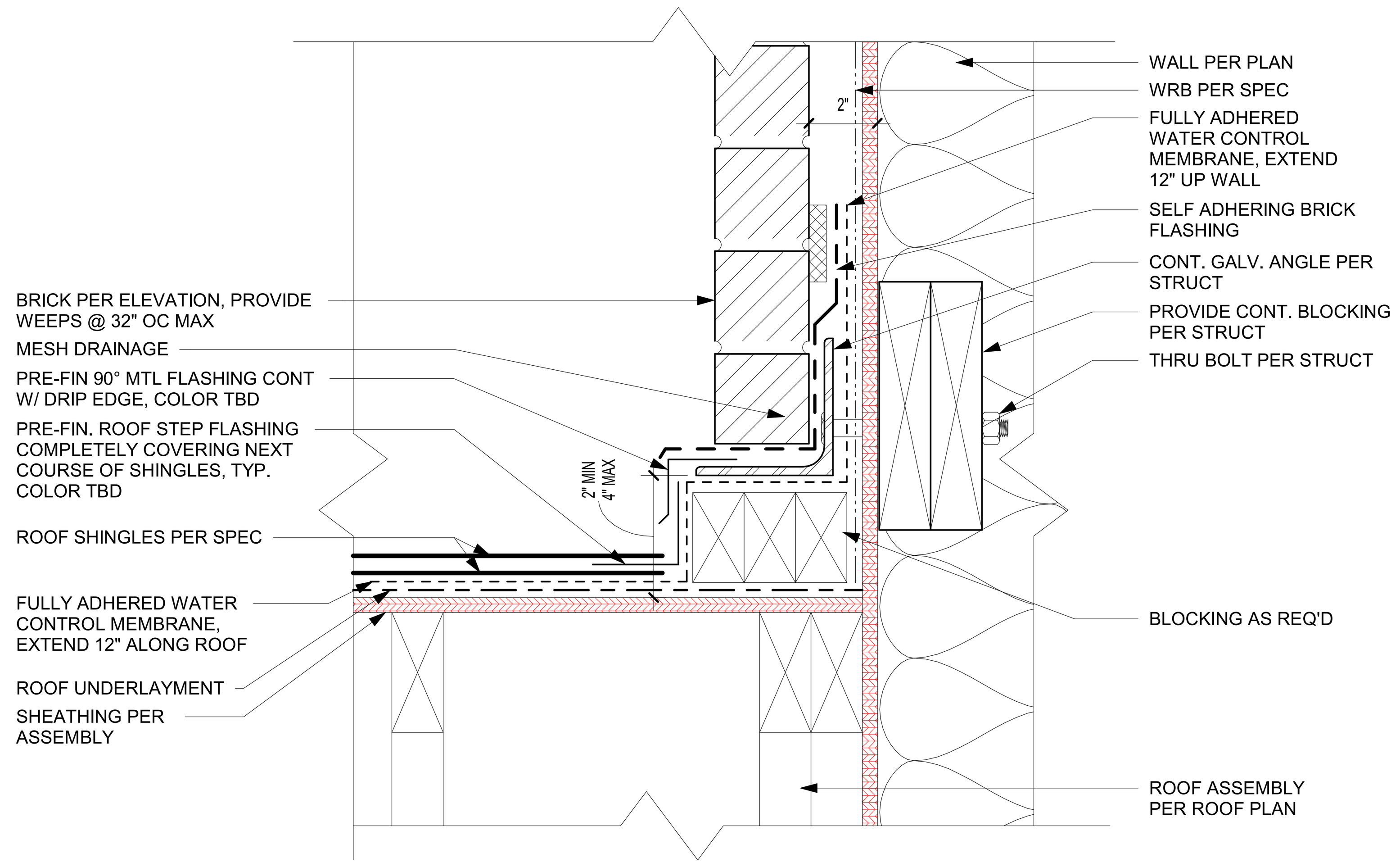


NOTES:
1. REFER TO ROOFING MANUFACTURER CURRENT REQUIREMENTS
2. REFER TO SMACNA FOR OVERLAP REQUIREMENTS AND SEALANT MATERIALS.
3. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT IN ANY GIVEN DIRECTION. ATTACH WITH GALVANIZED NAILS
4. FASTEN COPING CLEAT AS PER MFR INSTRUCTIONS

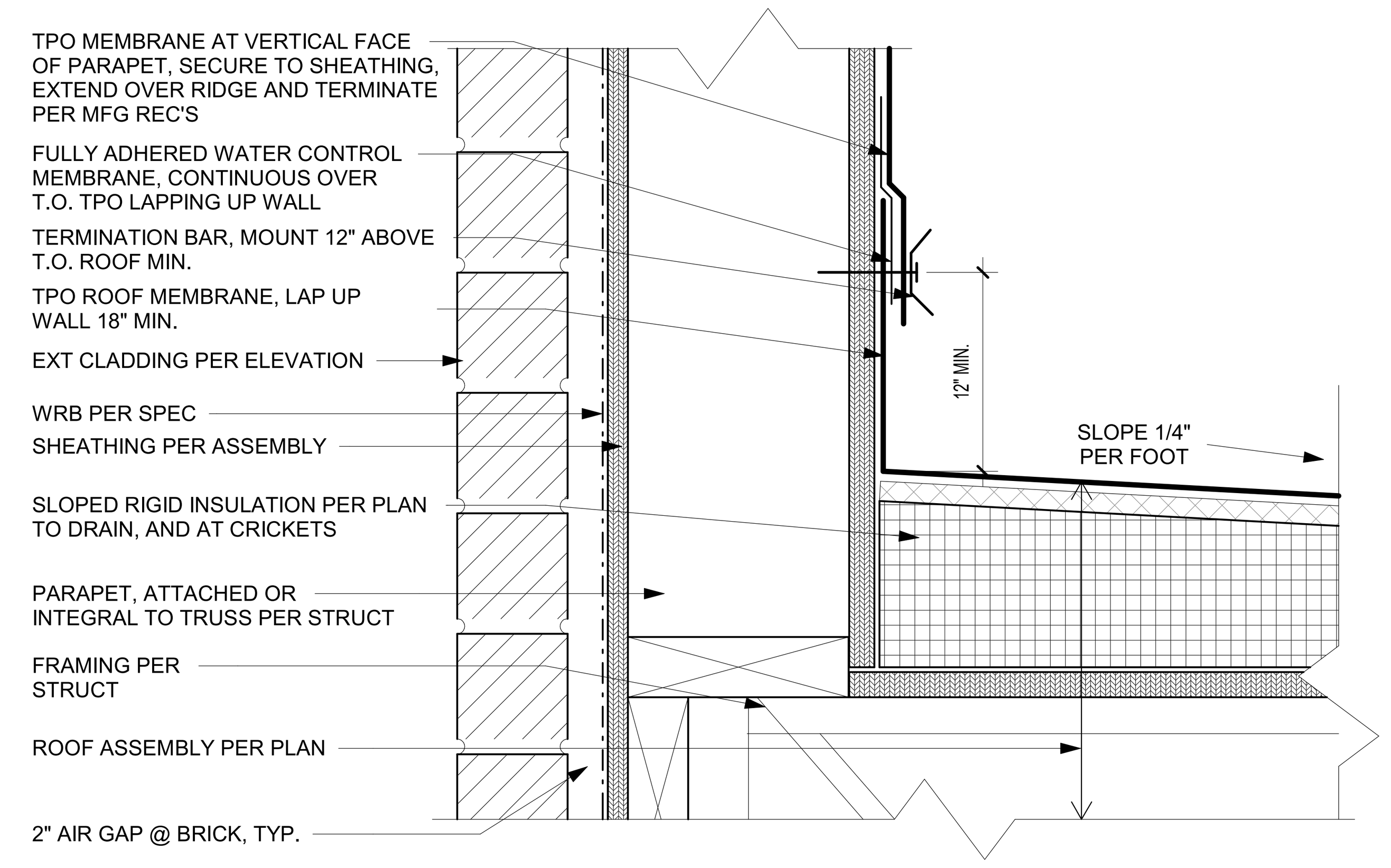
B3 ROOF @ BRICK PARAPET
1 1/2" = 1'-0"



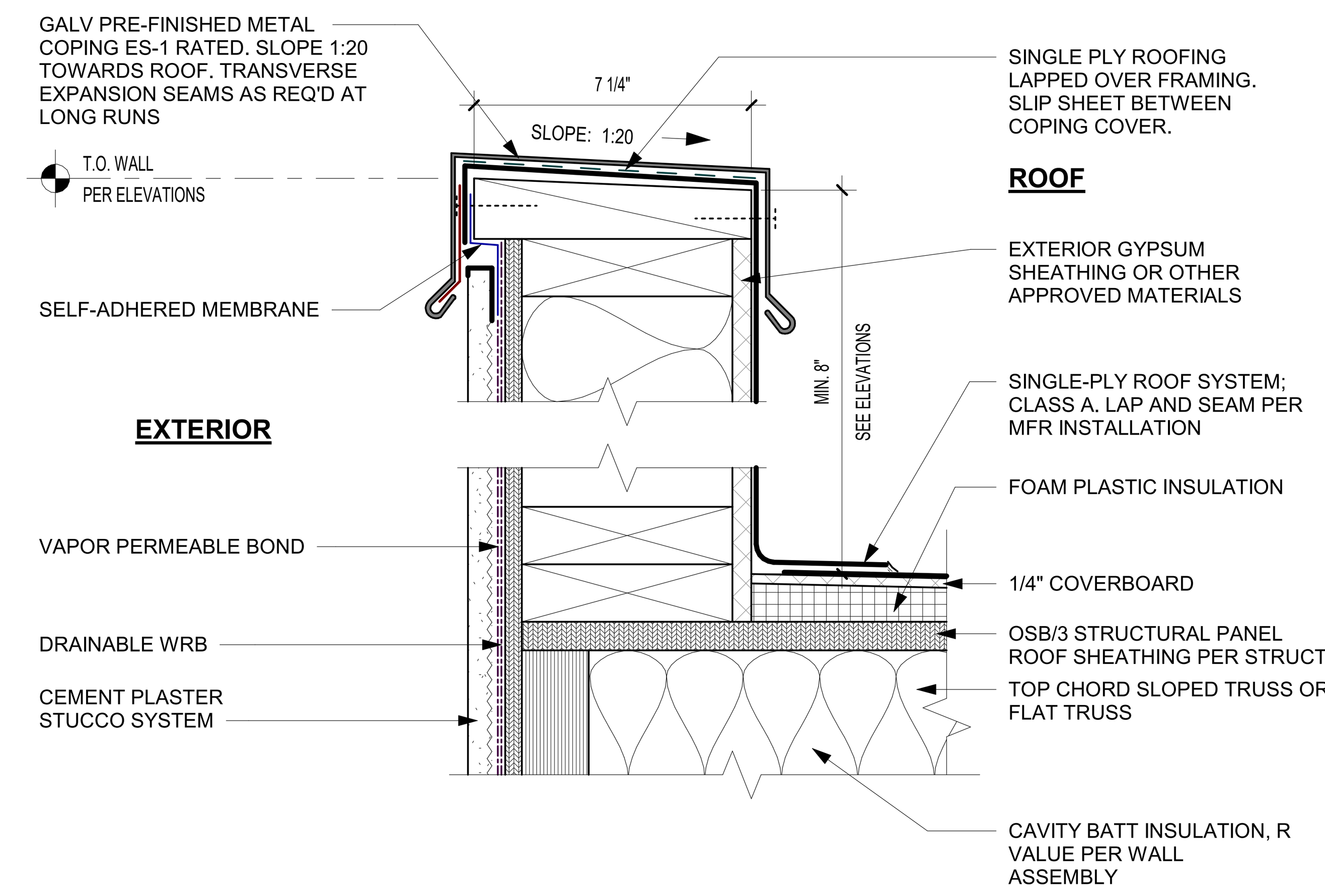
A3 EIFS - ROOF @ HIGH PARAPET CAP
1 1/2" = 1'-0"



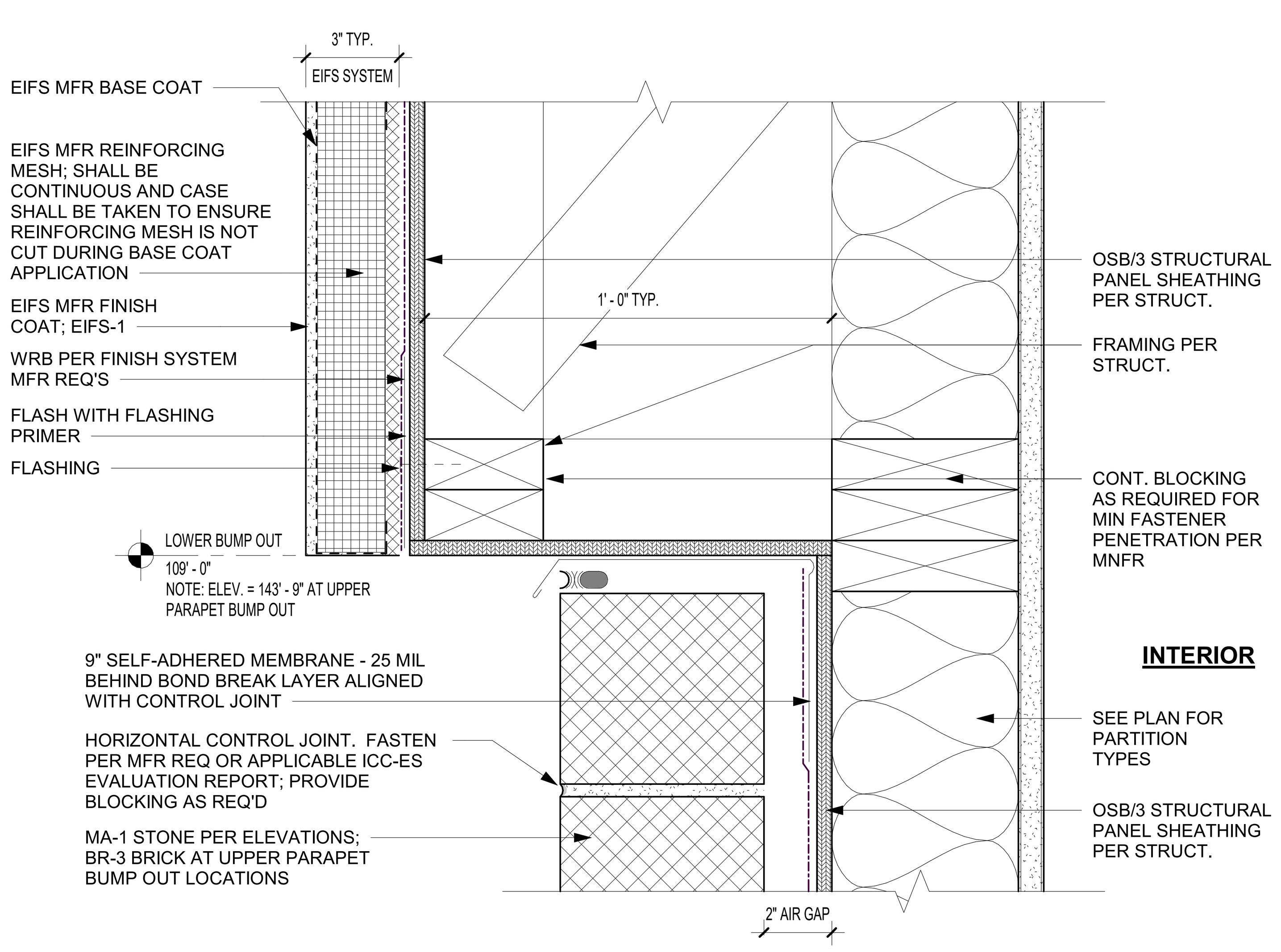
C2 THROUGH WALL FLASHING @ ROOF
3" = 1'-0"



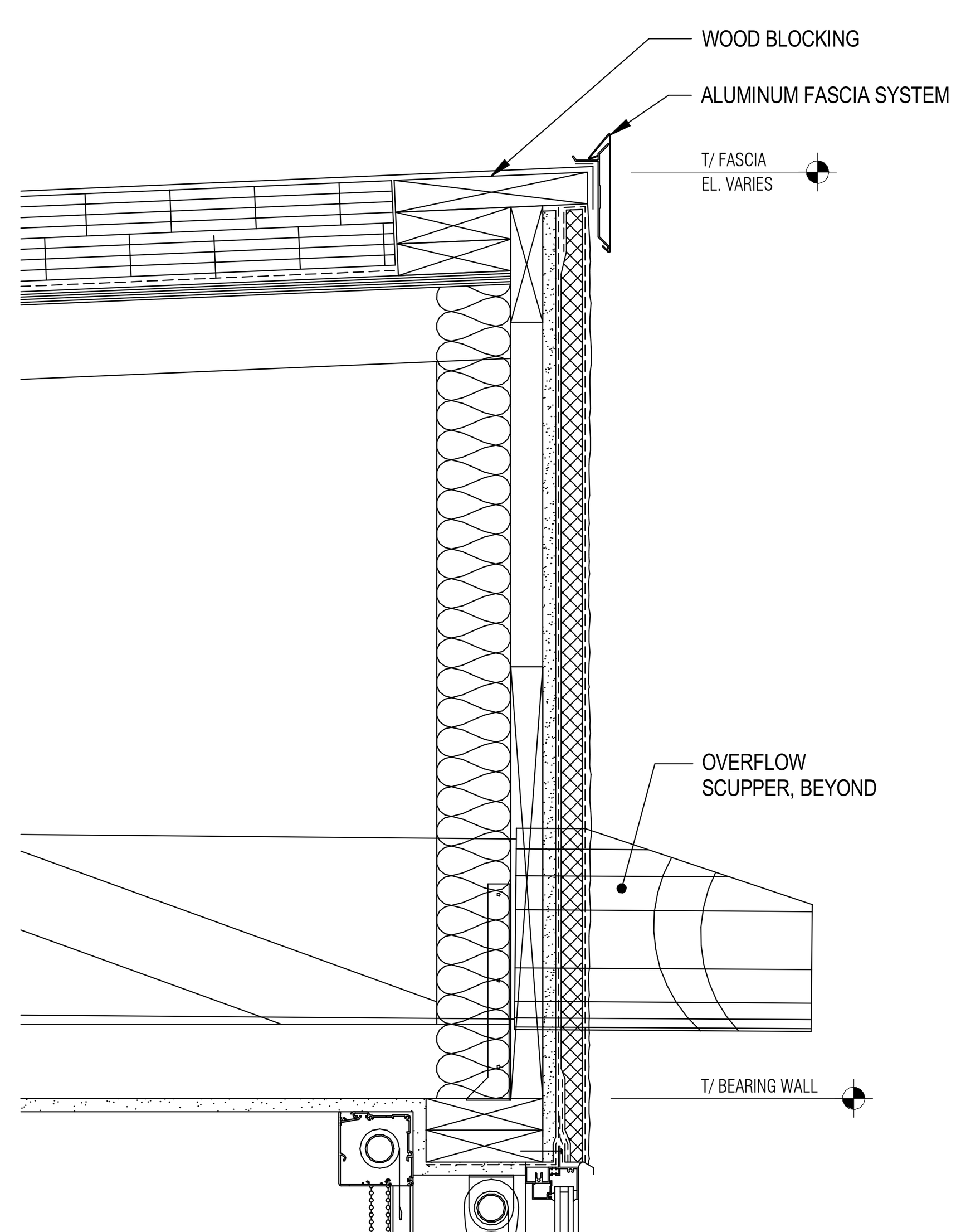
B2 ROOF - WOOD STUD - TPO PARAPET BASE AT WALL
3" = 1'-0"



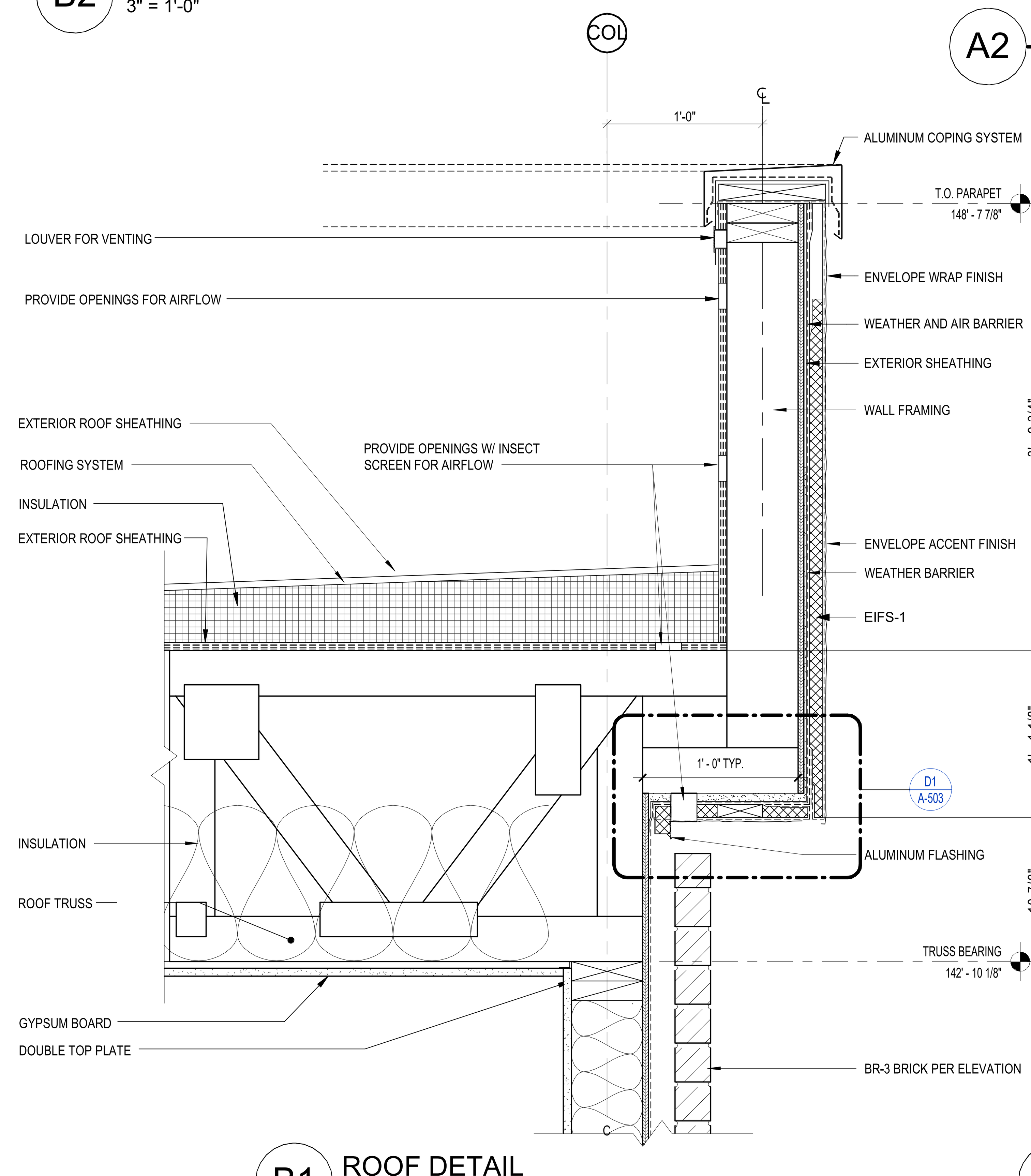
A2 STUCCO - ROOF COPING @ TPO
3" = 1'-0"



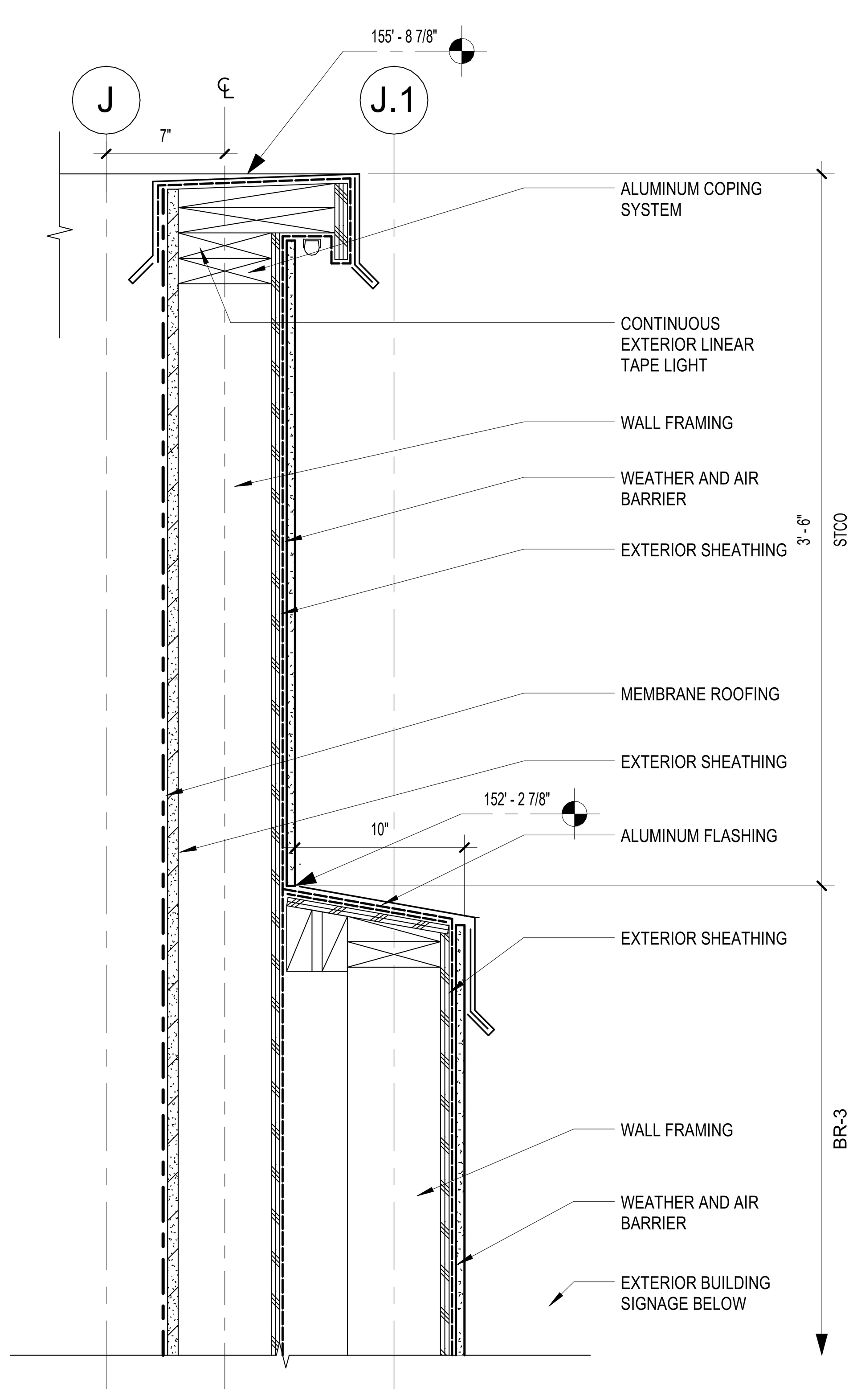
D1 EIFS TRANSITION - EIFS TO BRICK
3" = 1'-0"



C1 ROOF DETAIL
1 1/2" = 1'-0"



B1 ROOF DETAIL
1 1/2" = 1'-0"



A1 BEACON AT KEEP
1 1/2" = 1'-0"

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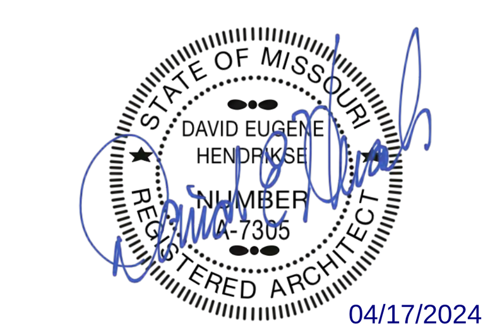


HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

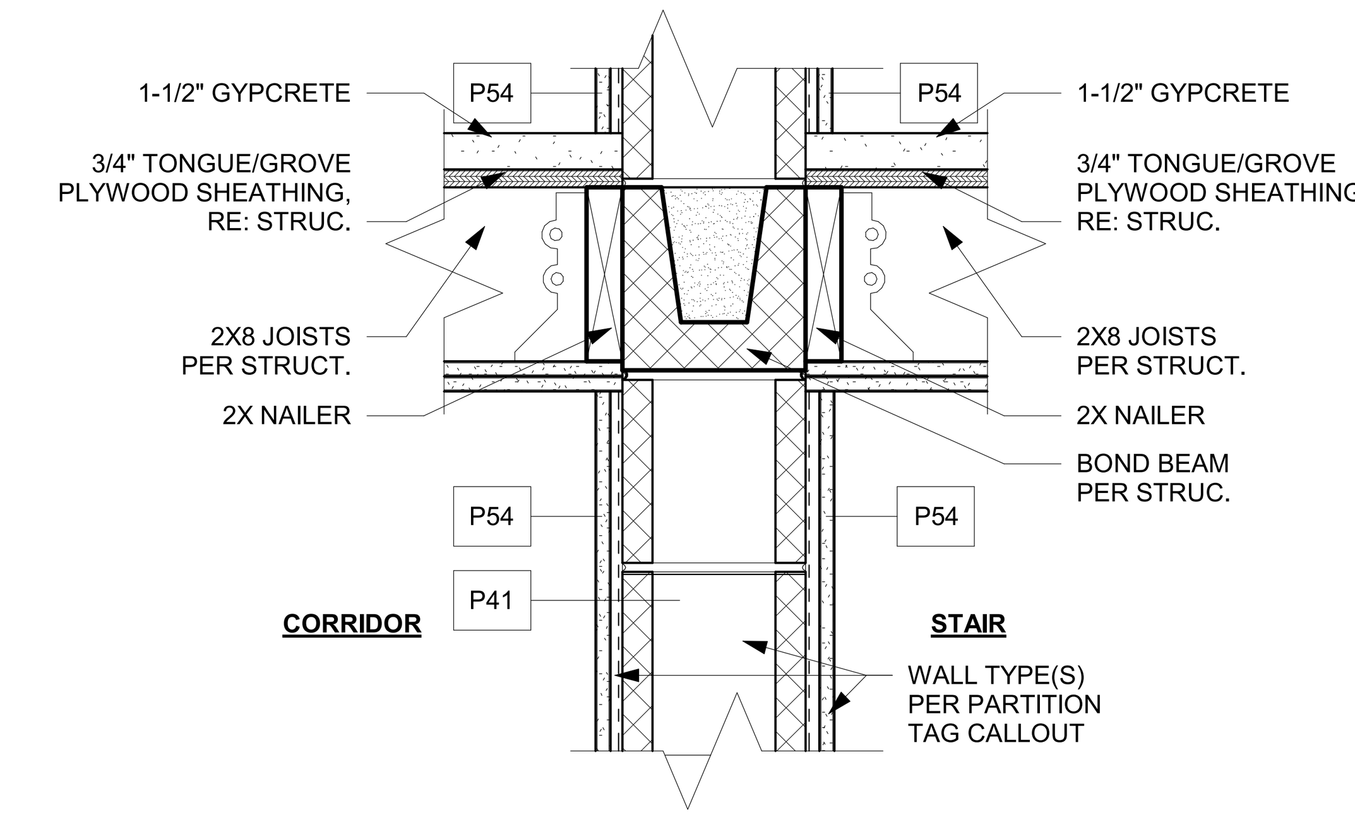
SHEET TITLE
DETAILS

PROJECT NUMBER: 22023

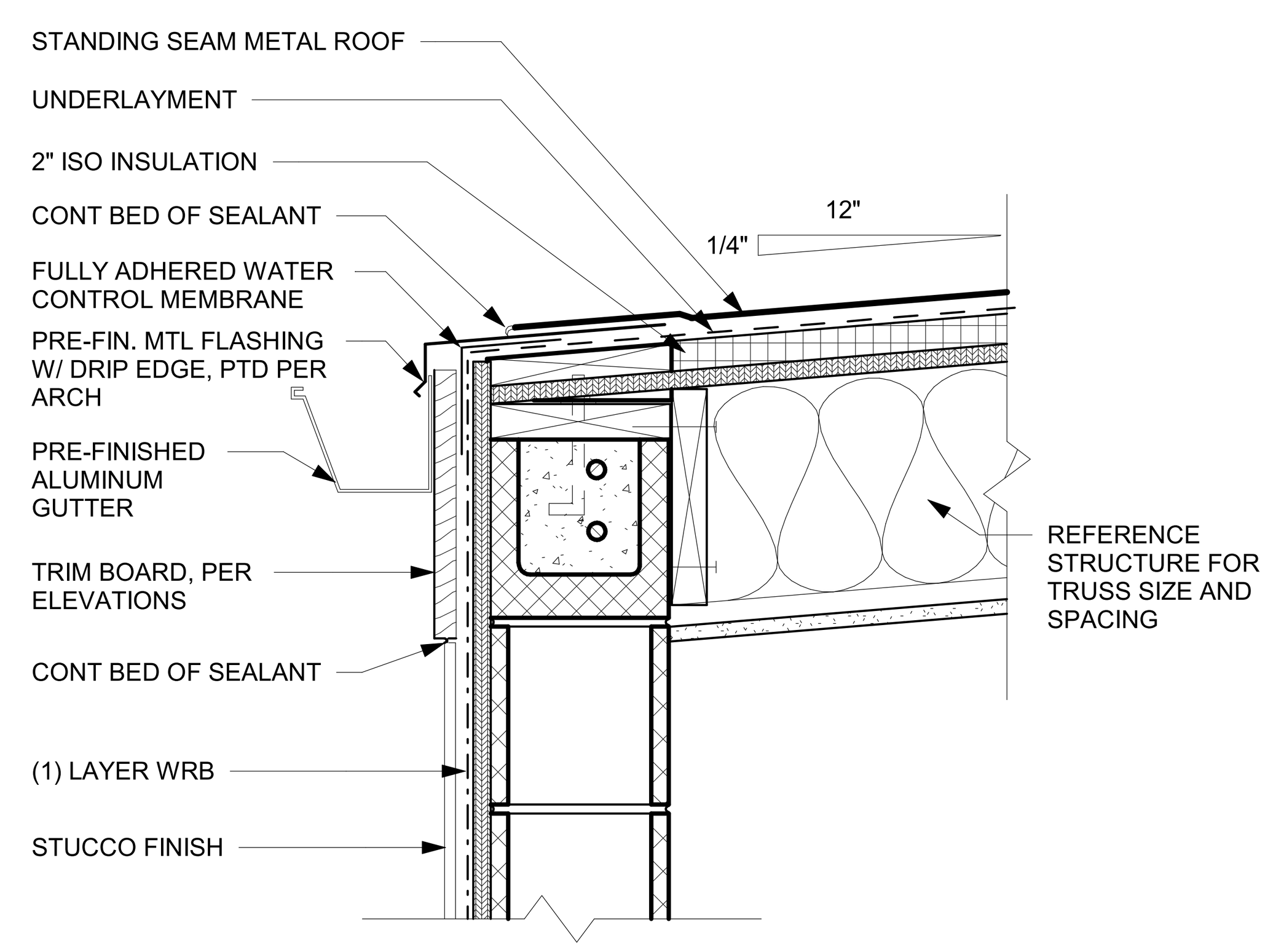
SHEET NUMBER:

A-503

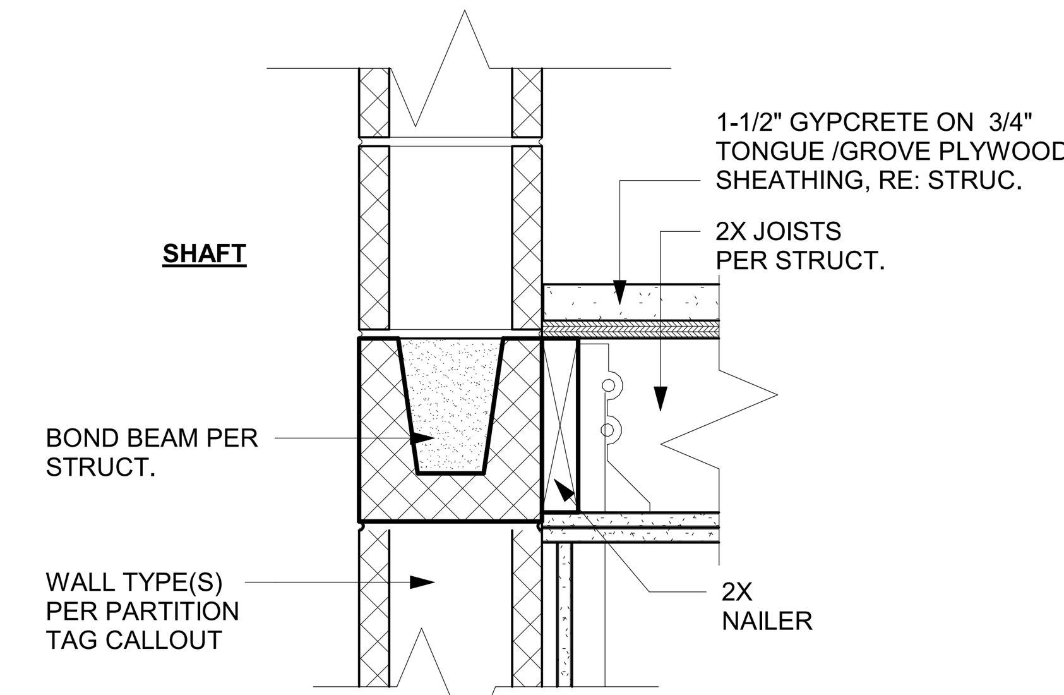
REFERENCE G-003 FOR GENERAL NOTES



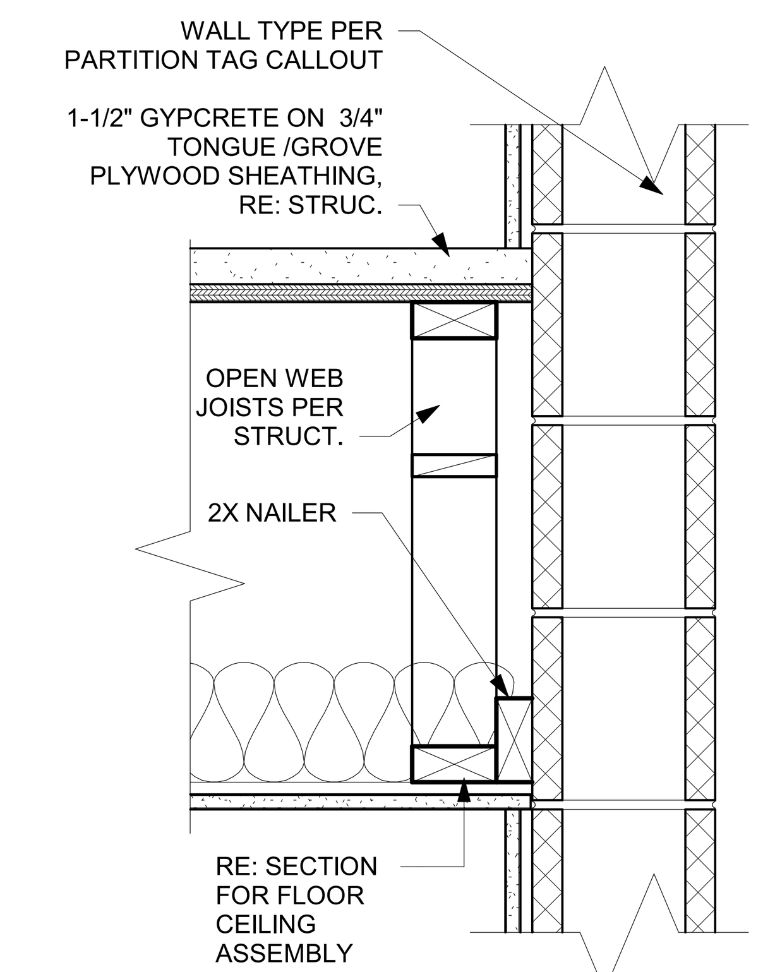
A4 FRAMING @ CMU - STAIR 1
1 1/2" = 1'-0"



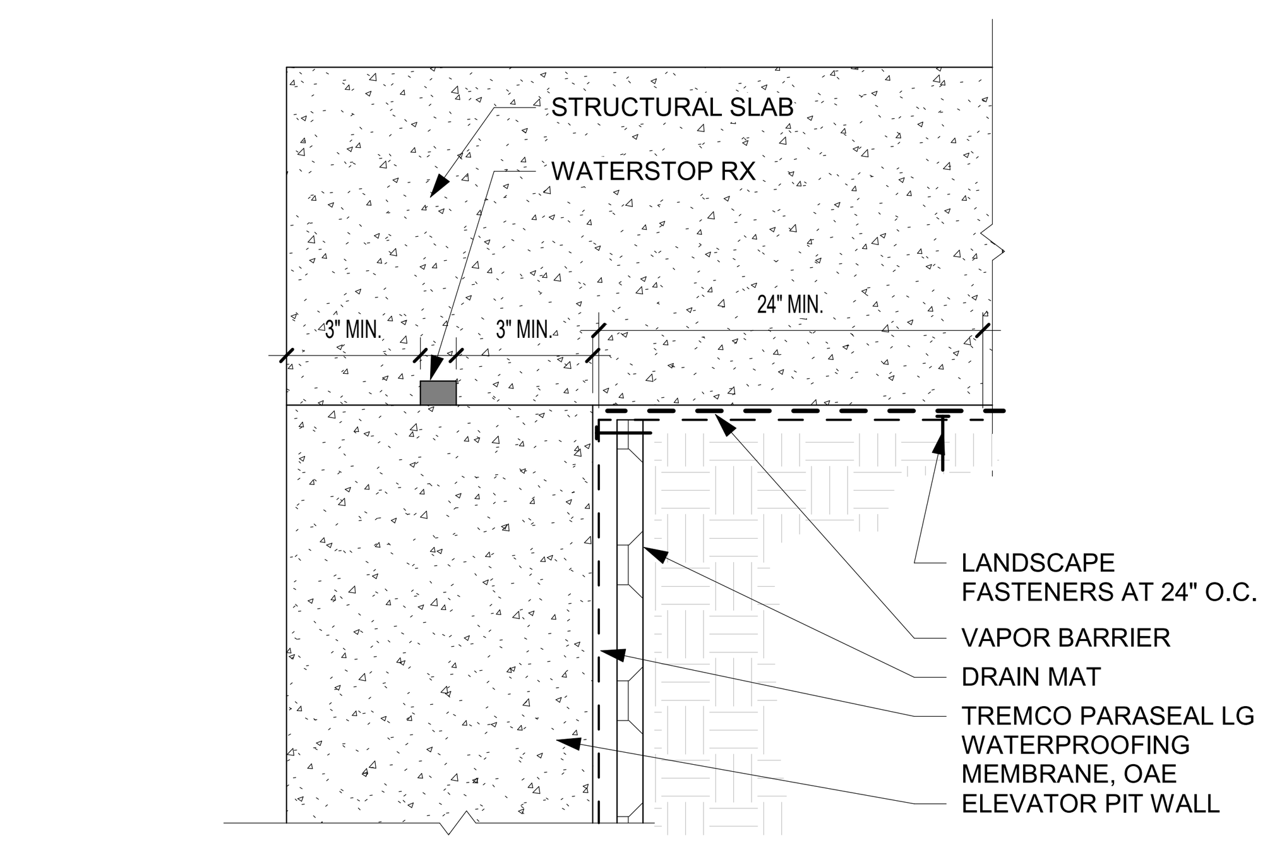
C3 ELEVATOR - CMU AT LOW SLOPE ROOF @ GUTTER
1 1/2" = 1'-0"



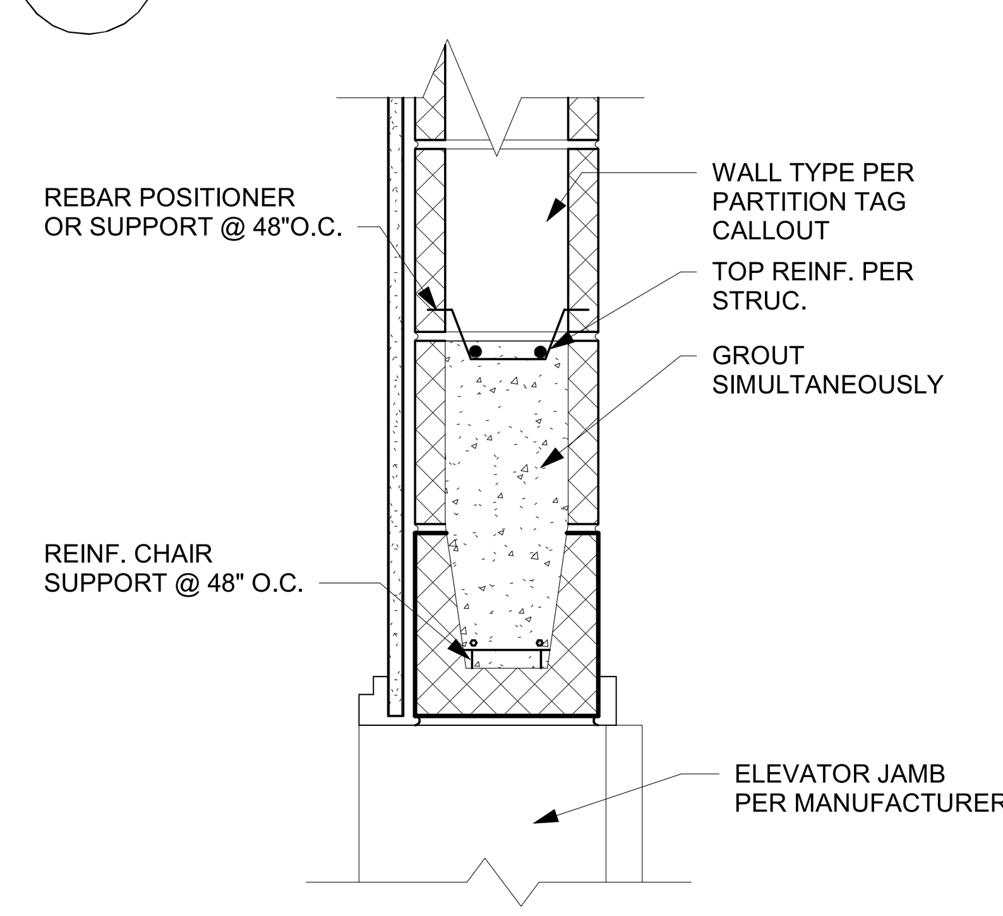
B3 ELEVATOR SHAFT DETAIL
1 1/2" = 1'-0"



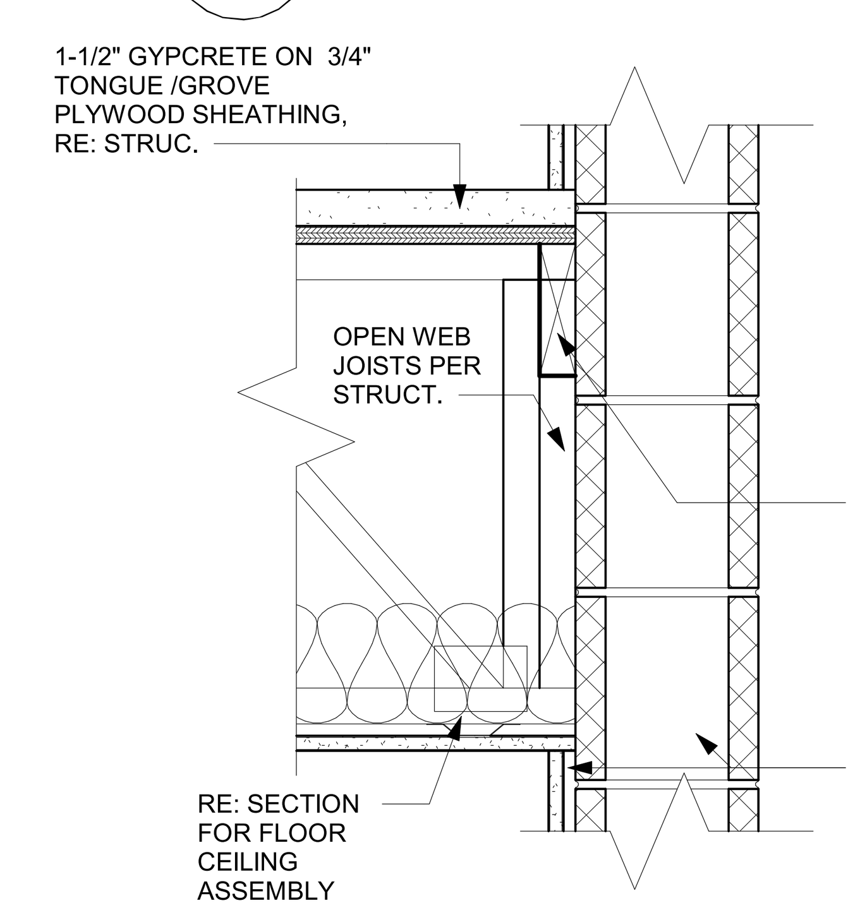
A3 FRAMING @ CMU
1 1/2" = 1'-0"



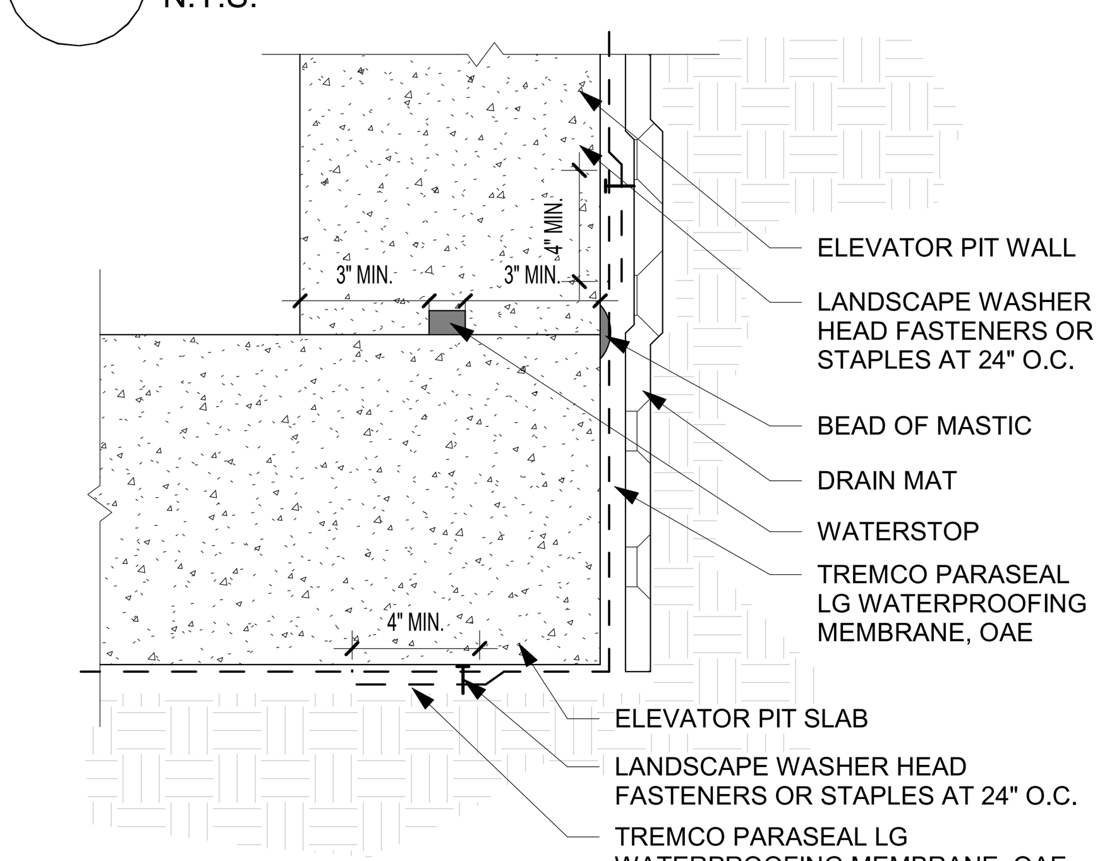
C2 ELEVATOR PIT WALL TO SLAB
N.T.S.



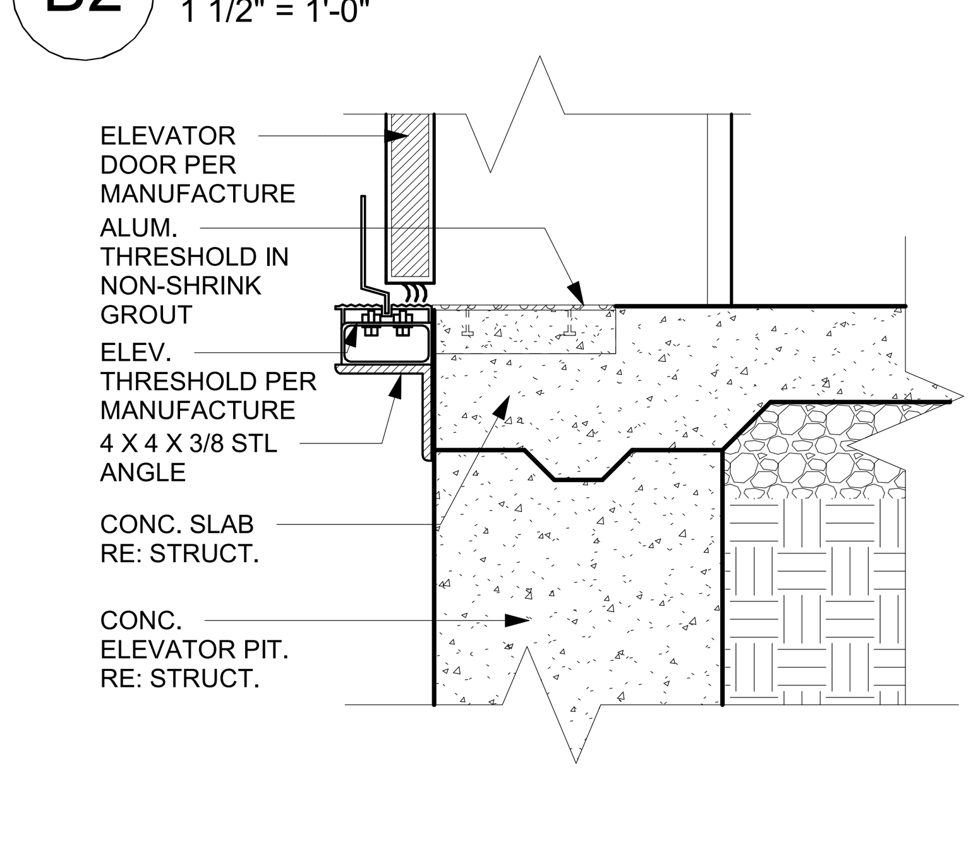
B2 ELEVATOR DOOR HEAD DETAIL
1 1/2" = 1'-0"



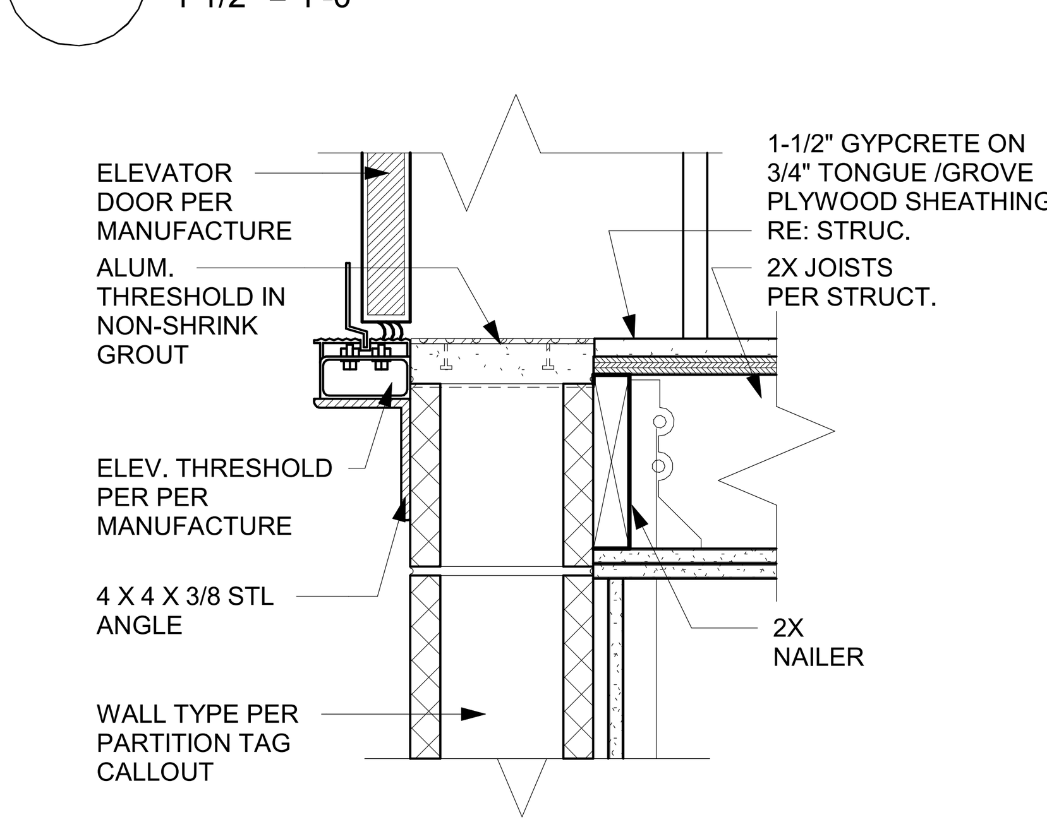
A2 FRAMING @ CMU
1 1/2" = 1'-0"



C1 ELEVATOR PIT SLAB TO WALL TRANSITION
N.T.S.



B1 ELEVATOR SHAFT THRESHOLD AT PIT
1 1/2" = 1'-0"



A1 ELEVATOR SHAFT AT THRESHOLD DETAIL
1 1/2" = 1'-0"

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STATE OF MISSOURI
DAVID EUGENE HENDRIKSE
NUMBER A-7305
REGISTERED ARCHITECT
04/17/2024

HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
ELEVATOR & CMU DETAILS

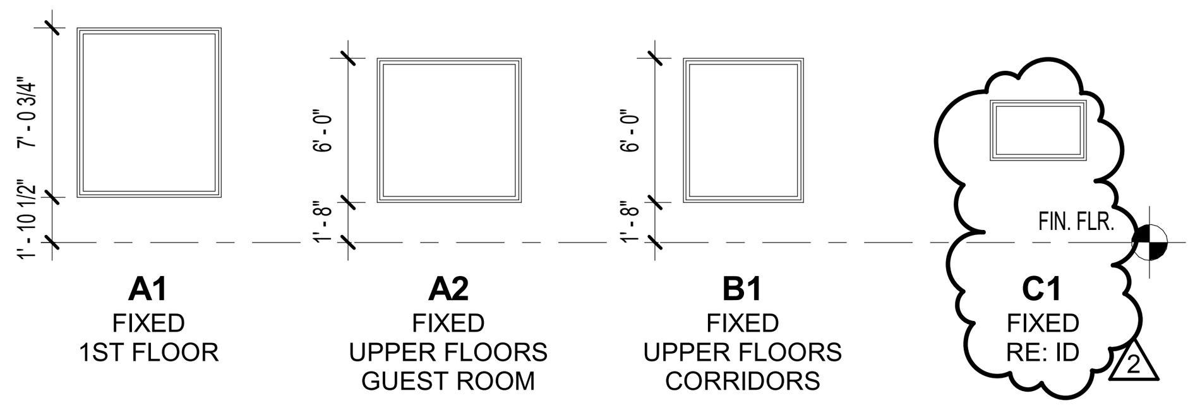
PROJECT NUMBER: 22023

SHEET NUMBER:

A-504

REFERENCE G-003 FOR GENERAL NOTES

WINDOW TYPES



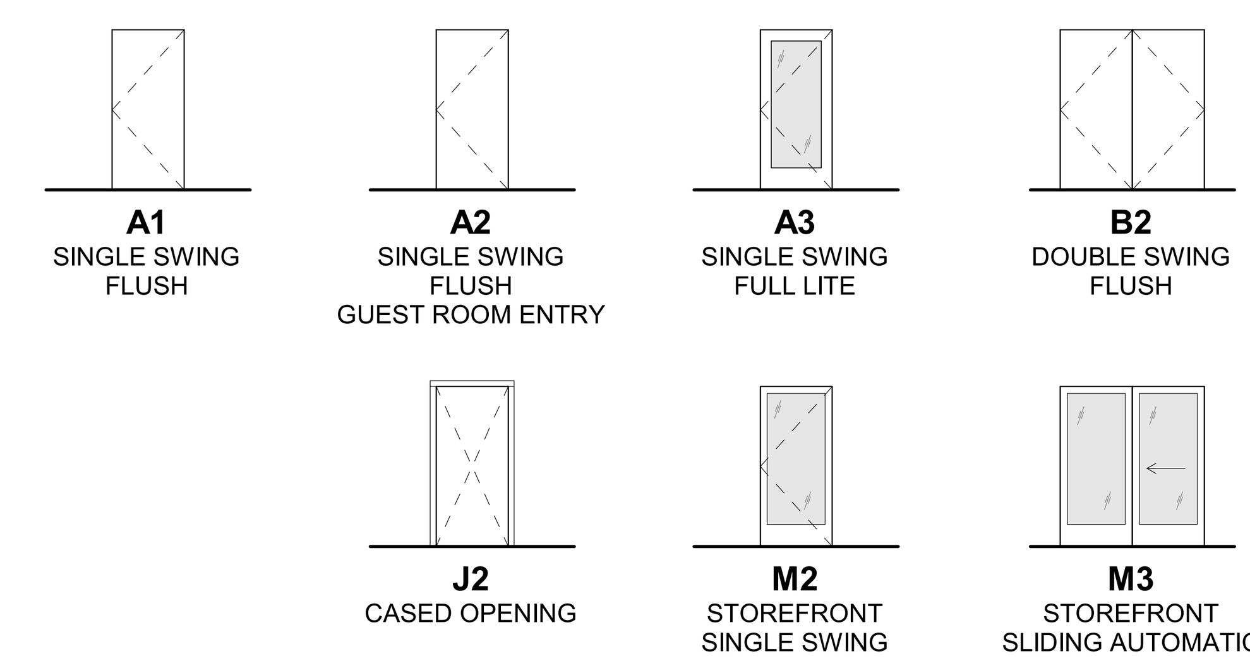
WINDOW COMMENTS:

1. GLAZING DEEMED TO BE IN A HAZARDOUS LOCATION SHALL BE TEMPERED / SAFETY GLAZING.
2. EACH PANE OF SAFETY GLAZING INSTALLED IN HAZARDOUS LOCATIONS SHALL BE IDENTIFIED BY MFR'S DESIGNATION.
3. CONFIRM OPERATION OF SASH LOCKS AT "TYPE A" UNITS WILL BE WITHIN 48" REQUIRED REACH RANGE PER A4 / G-300
4. REFER TO CODE SHEET FOR ALL FIRE RATINGS.
5. WINDOW LOCATIONS PER PLANS.

DOOR COMMENTS:

1. SEE ENLARGED PLANS & ENLARGED STAIR & ELEVATOR PLANS FOR ALL DOOR TAGS.
2. BOTTOM RAIL TO BE MINIMUM 10" TO ALLOW FOR A 10" KICK PLATE; TYPICALL ALL DOORS. SEE: A3 / G-300
3. SEE SPECIFICATIONS FOR DOOR HARDWARE SCHEDULE; FINAL HARDWARE SCHEDULE AND FINAL GROUPS TO BE DETERMINED BY DOOR SUB-CONTRACTOR. VERIFY FINAL HARDWARE INSTALLATION WITH CLIENT AND ARCHITECT.
4. DOOR HARDWARE SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE.
5. ALL DOOR HARDWARE TO BE LEVER TYPE HARDWARE, UNO.
6. ALL COMMON AREA RATED DOORS TO HAVE SMOKE SEALS (GASKETS), CLOSURES, AND LATCH HARDWARE.
7. UNIT ENTRY DOORS TO HAVE SPRING HINGES & LATCH HARDWARE, TYP UNO.
8. ALL DOORS INTENDED FOR PASSAGE TO HAVE 32" CLEAR WIDTH PER ICC ANSI A117.1
9. ALL EXTERIOR HOLLOW METAL DOORS ARE TO BE PAINTED TO MATCH ADJACENT MASONRY. (2)

DOOR TYPES



WINDOW SCHEDULE				
Type Mark	Location	Width	Height	Comments
A1	TYP. 1ST FLOOR	6' - 0"	7' - 0 3/4"	
A2	TYP. UPPER FLOOR GUEST ROOMS	6' - 0"	6' - 0"	
B1	UPPER FLOOR CORRIDORS	5' - 0"	6' - 0"	
C1	<varies>	4' - 0"	2' - 6"	

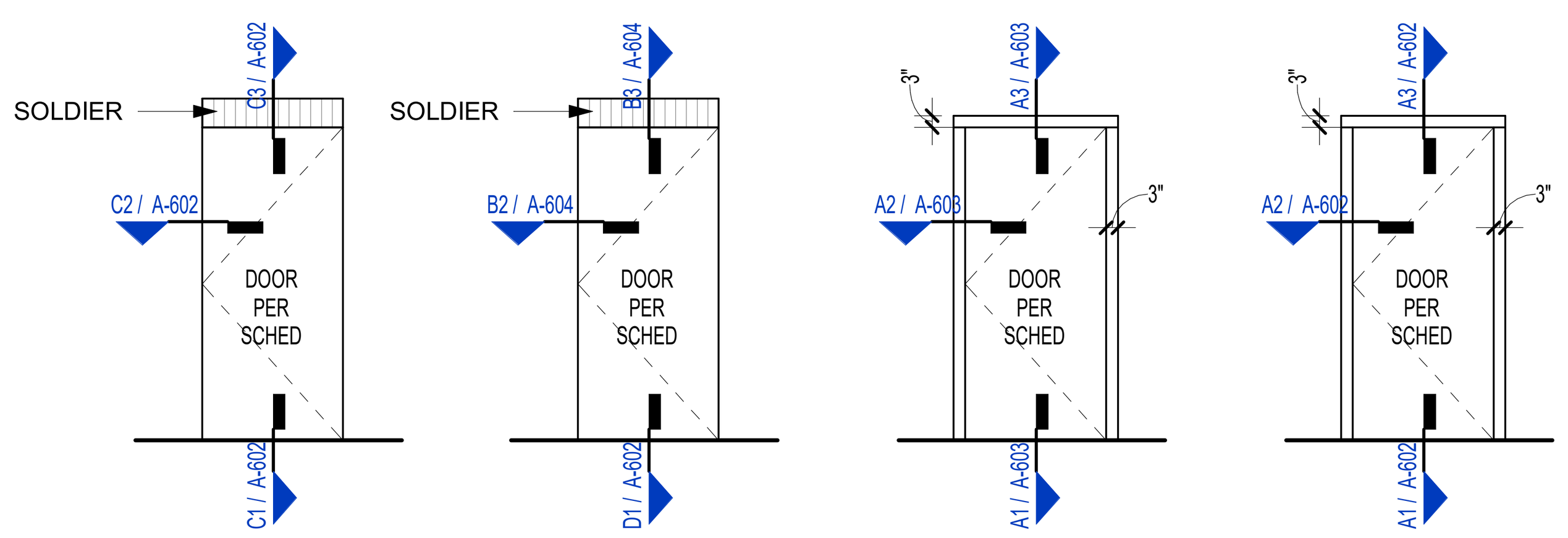
DOOR SCHEDULE - UNIT DOORS								
Mark	Width	Height	Thickness	Fire Rating (Minutes)	Door Type	Frame Type	Comments	Hardware Group
GR-01	3' - 0"	6' - 8"	1 3/4"	20	A2	HM		27
GR-02	3' - 0"	6' - 8"	1 3/4"		A1	HM		28
GR-03	3' - 0"	6' - 8"	1 3/4"	45	A1	HM	a	29
GR-04	3' - 0"	6' - 8"	1 3/4"		A1	HM		30
GR-05	3' - 0"	6' - 8"	1 3/4"		A1	HM		31

DOOR SCHEDULE ABBREVIATIONS:

ALUM	ALUMINUM	**FGL / FBG**	FIBERGLASS	**N/A**	NOT APPLICABLE	**STL**	NOT APPLICABLE
ANO	ANODIZED	**HC WOOD / HCWD**	HOLLOW CORE WOOD	**PER MFR**	PER MANUFACTURER	**WD CLAD**	WOOD CLAD
BLK	BLACK	**HM**	HOLLOW METAL	**PRE-FIN**	PRE-FINISHED	**GL**	GLAZING
BRZ	BRONZE	**INSUL MTL**	INSULATED METAL	**PT / PTD**	PAINTED		
CLR	CLEAR	**MTL**	METAL	**SC WOOD / SCWD**	SOLID CORE WOOD		

DOOR OPENING SCHEDULE

Mark	Location	Width	Height	Thickness	Fire Rating (Minutes)	Access Control (AC)	Panic Hardware	Door: Door Type	Door: Door Material	Door: Door Finish	Frame: Frame Type	Frame: Frame Finish	Comments	Hardware Group
T.O. 1st FLOOR SLAB														
001A	VESTIBULE	4' - 0"	7' - 0"	1 3/4"			No	M3	ALUM		ALUM		b	32
001B	LOBBY	4' - 0"	7' - 0" (2)	1 3/4"			No	M3	ALUM		ALUM		b, f	32
001C	VESTIBULE	3' - 0"	6' - 8"	1 3/4"			No	A1	HM		HM			17
002	LOBBY	3' - 0"	7' - 0"	1 3/4"			Yes	M2	ALUM		ALUM		c	01
003A	HALL	3' - 0"	7' - 0"	1 3/4"			Yes	M2	ALUM		ALUM		c	23
003B	VESTIBULE	3' - 0"	7' - 0" (2)	1 3/4"			Yes	M2	ALUM		ALUM		c	03
006A	BREAKFAST	4' - 0"	7' - 0"	1 3/4"	20		No	A1	SC WOOD		HM		d	09
006B	BREAKFAST	4' - 0"	7' - 0"	1 3/4"	20		No	A1	SC WOOD		HM		d	09
007A	FOOD PREP	3' - 0"	6' - 8"	1 3/4"			No	A1	SC WOOD		HM			24
007B	FOOD PREP	3' - 0"	6' - 8"	1 3/4"			No	A1	SC WOOD		HM			25
009	WORK STATIONS	3' - 0"	6' - 8"	1 3/4"			No	A1	SC WOOD		HM			25
010	MANAGERS OFFICE	3' - 0"	6' - 8"	1 3/4"			No	A1	SC WOOD		HM			08
010B	MANAGERS OFFICE	2' - 8"	6' - 8"	1 3/4"			No	A1	SC WOOD		HM			14
012A	DISCHARGE LAUNDRY	3' - 6"	6' - 8"	1 3/4"	45		No	A1	SC WOOD		HM			26
012B	DISCHARGE LAUNDRY	3' - 6"	6' - 8"	1 3/4"	45		No	A1	SC WOOD		HM		d	10
013	LAUNDRY	3' - 0"	6' - 8"	1 3/4"			No	A1	SC WOOD		HM			26
013A	LAUNDRY	2' - 6"	6' - 8"	1 3/4"			No	A1	HM		HM			15
014	LAUNDRY	3' - 0"	6' - 8"	1 3/4"			No	A1	SC WOOD		HM			17
015	INDOOR POOL	3' - 0"	7' - 0" (2)	1 3/4"			Yes	M2	ALUM		ALUM		c	
015A	INDOOR POOL	8' - 0"	6' - 8"	1 3/4"			No	B2	GALV HM		GALV HM			20
015B	INDOOR POOL	8' - 0"	6' - 8"	1 3/4"	45		No	B2	GALV HM		GALV HM			20
016	GRILLING PATIO	3' - 0"	7' - 0" (2)	1 3/4"			Yes	M2	ALUM		ALUM		c	01
016B	INDOOR POOL	2' - 2"	6' - 8"	1 3/4"			No	A1	GALV HM		GALV HM			16
017	UNISEX	3' - 0"	6' - 8"	1 3/4"			No	A1	GALV HM		GALV HM			06
018	GRILLING PATIO	3' - 6"	6' - 8"	1 3/4"			No	A6	GALV HM		GALV HM		g	12
020	WOMENS	3' - 0"	6' - 8"	1 3/4"			No	A1	SC WOOD		HM			06
021	MENS	3' - 0"	6' - 8"	1 3/4"			No	A1	SC WOOD		HM			06
022	STORAGE	3' - 0"	6' - 8"	1 3/4"			No	A1	SC WOOD		HM			16
023	SALES	3' - 0"	6' - 8"	1 3/4"			No	A1	SC WOOD		HM			07
024	CIRCULATION	3' - 0"	7' - 0"	1 3/4"			No	M2	ALUM		ALUM			21
025	GUEST LAUNDRY	3' - 6"	7' - 0"	1 3/4"			No	J2	--		HM			33
025B	GUEST LAUNDRY	3' - 0"	6' - 8"	1 3/4"			No	A1	HM		HM			15
026A	ENGINEER	3' - 0"	6' - 8"	1 3/4"	45		No	A1	SC WOOD		HM			18
026B		3' - 6"	6' - 8"	1 3/4"			No	A6	GALV HM		GALV HM		g	13
027	MECH.	3' - 0"	6' - 8"	1 3/4"			Yes (1)	A1	HM		GALV HM			26
028	PBX	3' - 0"	6' - 8"	1 3/4"			No	A1	SC WOOD		HM			24
029	EMPLOYEE BREAK	3' - 0"	6' - 8"	1 3/4"			No	A1	SC WOOD		HM			24
030	ENGINEER	3' - 0"	6' - 8"	1 3/4"			No	A1	SC WOOD		HM			24
051		3' - 0"	6' - 8"	1 3/4"			Yes	A7	GALV HM		GALV HM		g	02
052A	STAIR 2	3' - 0"	6' - 8"	1 3/4"	90		Yes	A1	HM		HM			05
052B		3' - 0"	6' - 8"	1 3/4"			Yes	A4	GALV HM		GALV HM		g	02
133A	CIRCULATION	3' - 0"	6' - 8"	1 3/4"	45		Yes	A1	SC WOOD		HM		d	11
133B		3' - 0"	6' - 8"	1 3/4"			Yes	A5	ALUM		ALUM		c, g	01
GR-03		3' - 0"	6' - 8"	1 3/4"			No	A1						
T.O. 2nd SUBFLOOR														
234	ELEVATOR LOBBY	8' - 0"	6' - 8"	1 3/4"	45		No	B2	SC WOOD		HM			22
235	HOUSEKEEPING	3' - 0"	6' - 8"	1 3/4"	45		No	A1	SC WOOD		HM			19
251	STAIR-1	3' - 0"	6' - 8"	1 3/4"	90		Yes	A1	HM		HM			04
252	STAIR-2	3' - 0"	6' - 8"	1 3/4"	90		Yes	A1	HM		HM			04
T.O. 3rd SUBFLOOR														
334	ELEVATOR LOBBY	8' - 0"	6' - 8"	1 3/4"	45		No	B2	SC WOOD		HM			22
335	HOUSEKEEPING	3' - 0"	6' - 8"	1 3/4"	45		No	A1	SC WOOD		HM			19
351	STAIR-1	3' - 0"	6' - 8"	1 3/4"	90		Yes	A1	HM		HM			04
352	STAIR-2	3' - 0"	6' - 8"	1 3/4"	90		Yes	A1	HM		HM			
T.O. 4th SUBFLOOR														
434	ELEVATOR LOBBY	8' - 0"	6' - 8"	1 3/4"	45		No	B2	SC WOOD		HM			22
435	HOUSEKEEPING	3' - 0"	6' - 8"	1 3/4"	45		No	A1	SC WOOD		HM			19
451	STAIR-1	3' - 0"	6' - 8"	1 3/4"	90		Yes	A1	HM		HM			04
452	STAIR-2	3' - 0"	6' - 8"	1 3/4"	90		Yes	A1	HM		HM			



TYPICAL EXTERIOR DOOR TRIM (@ BRICK)

TYPICAL EXTERIOR DOOR TRIM (@ STOREFRONT)

TYPICAL INTERIOR DOOR (CMU)

TYPICAL INTERIOR DOOR (WOOD)

A2 DOOR TRIM & CASING - TYPICAL
1/4" = 1'-0"

DOOR SCHEDULES COMMENTS:

a. PROVIDE (2) DOORS FOR EACH COMMUNICATING DOOR LOCATION.

b. SLIDING AUTOMATIC ENTRANCE: BASIS OF DESIGN IS BESAM UNISLIDE OC-S, OVERHEAD CONCEALED FIXED SIDELITE, NARROW STILE SINGLE SLIDE DOOR SYSTEM.

c. ALUMINUM DOOR WITHIN STOREFRONT FRAME. BASIS OF DESIGN IS KAWNEER 500 WIDE STILE DOORS. DOORS & FRAMES TO BE PAINTED, ALL HARDWARE & TRIM TO BE CLEAR ANODIZED ALUMINUM OR US32D. REFER TO ELEVATIONS.

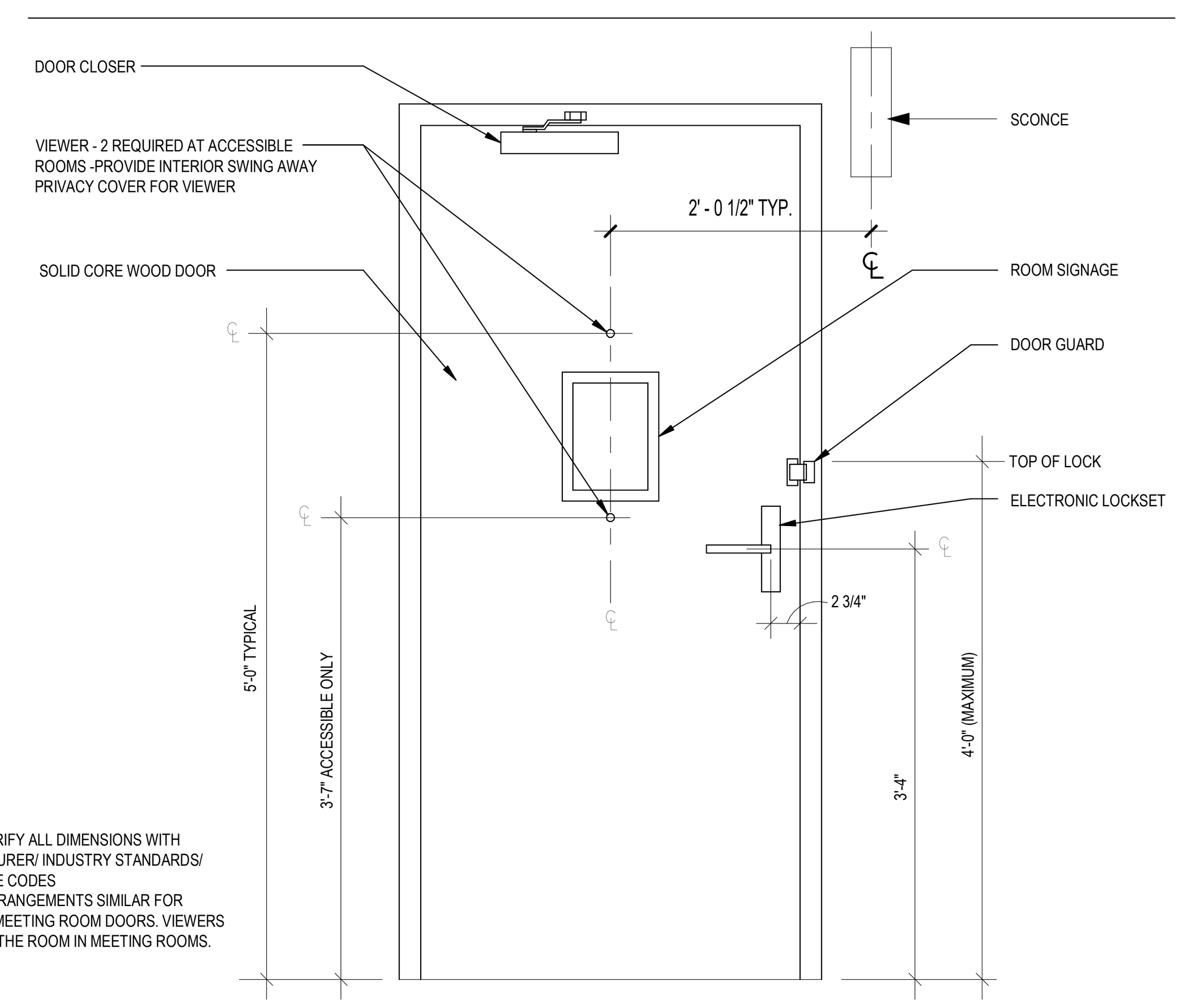
d. DOORS ON MAGNETIC HOLD OPENS TO TIED INTO FIRE ALARM SYSTEM AND TO RELEASE WHEN ALARM IS ACTUATED.

e. C-SERIES HOLLOW METAL DOOR FRAME WITH NO BACKBENDS.

f. PROVIDE (1) REMOTE READER AND (1) INTERCOM/BUZZER -- REFER TO HARDWARE SET FOR MANUFACTURER AND MODEL.

g. EXTERIOR DOOR FINISH TO MATCH ADJACENT WALL COLOR -- SEE EXTERIOR ELEVATIONS.

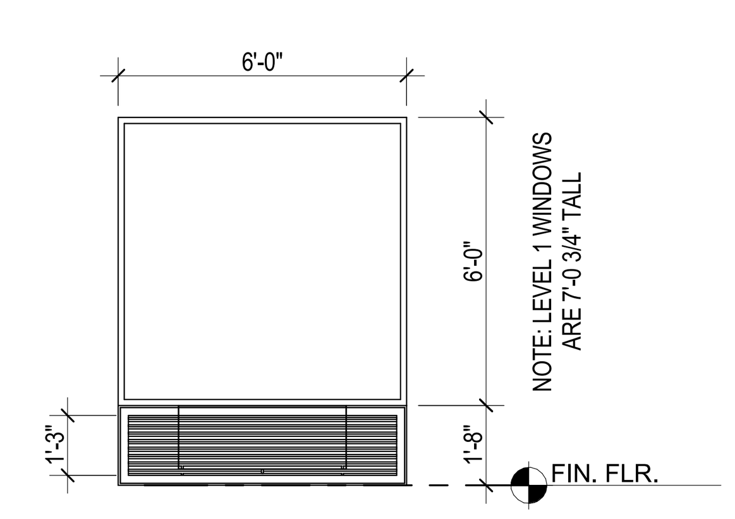
STANDARD GUEST ROOM ENTRY DOOR



NOTES: VERIFY ALL DIMENSIONS WITH MANUFACTURER/ INDUSTRY STANDARDS/ APPLICABLE CODES
VIEWER ARRANGEMENTS SIMILAR FOR OPTIONAL MEETING ROOM DOORS. VIEWERS FACE INTO THE ROOM IN MEETING ROOMS.

B1 STANDARD GUEST ROOM ENTRY DOOR
3/16" = 1'-0"

TYPICAL GUEST ROOM WINDOW



A1 TYP GUEST ROOM WINDOW
1/4" = 1'-0"

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STATE OF MISSOURI
DAVID EUGENE HENDRICKS
NUMBER A-7305
REGISTERED ARCHITECT
06/14/2024

HOME2 SUITES BY HILTON

LEE'S SUMMIT, MO

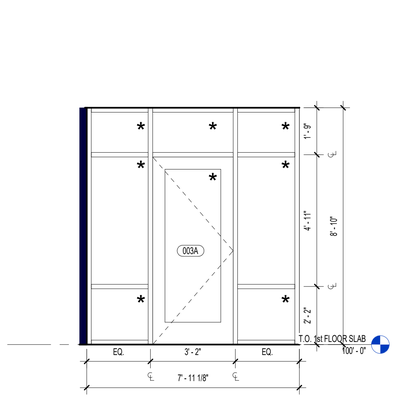
SHEET TITLE
WINDOW / DOOR / FINISH SCHEDULES

PROJECT NUMBER: 22023

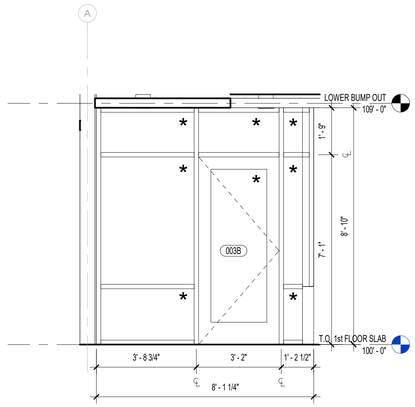
SHEET NUMBER:

A-600

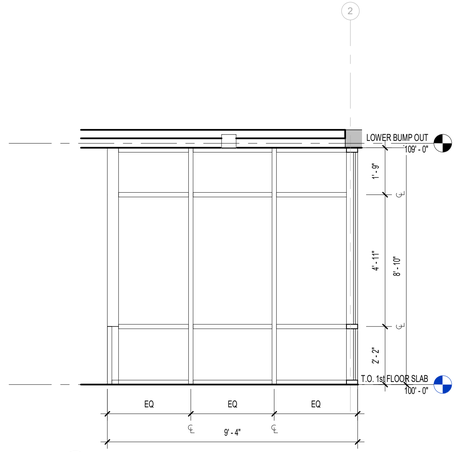
REFERENCE G-003 FOR GENERAL NOTES



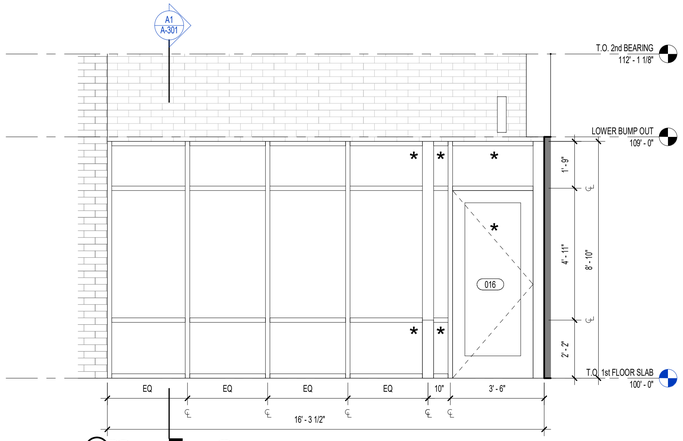
C3 SF-9 VESTIBULE 3
3/8" = 1'-0"



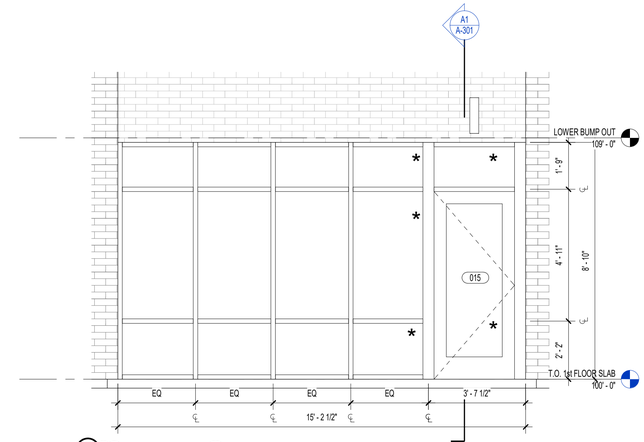
B3 SF-8 VESTIBULE 2
3/8" = 1'-0"



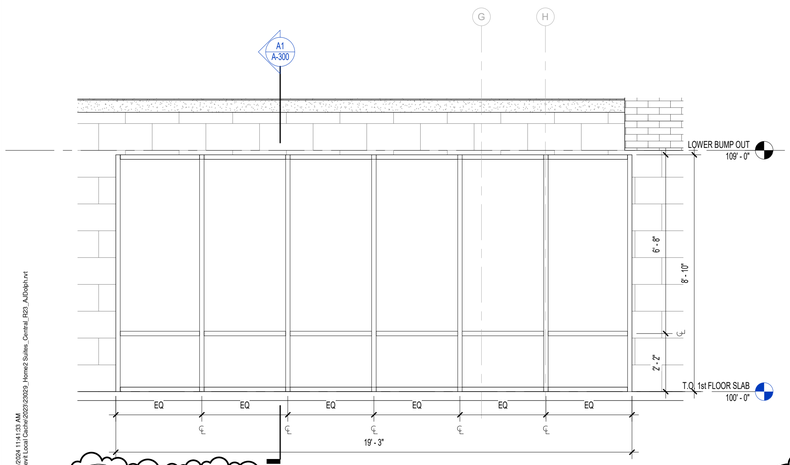
A3 SF-7 VESTIBULE 1
3/8" = 1'-0"



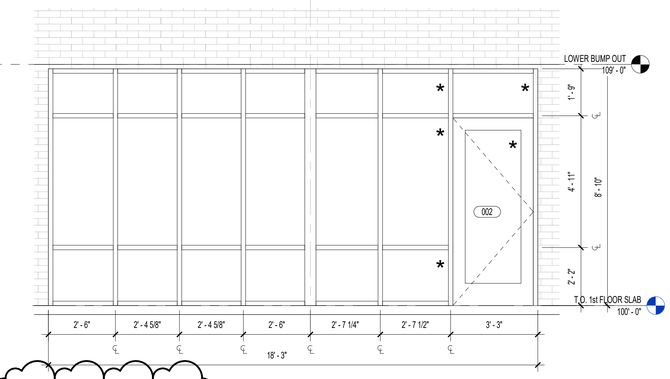
B2 SF-6 POOL 2
3/8" = 1'-0"



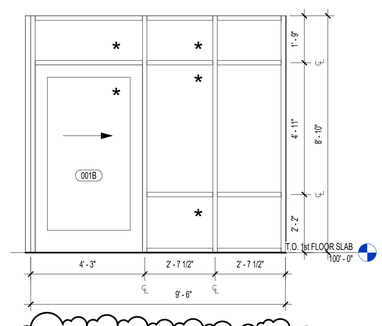
A2 SF-5 POOL 1
3/8" = 1'-0"



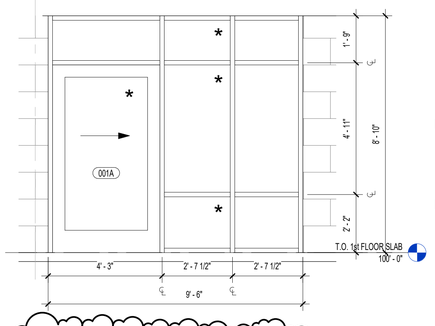
D1 SF-4 FITNESS
3/8" = 1'-0"



C1 SF-3 LOBBY
3/8" = 1'-0"



B1 SF-2 ENTRY VESTIBULE 2
3/8" = 1'-0"



A1 SF-1 ENTRY VESTIBULE 1
3/8" = 1'-0"

6/13/2024 11:41:13 AM
C:\Revit Local Cache\R2023\22023_Home2 Suites_Central_R23_AJDolph.rvt

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STATE OF MISSOURI
DAVID EUGENE HENDRIXSE
NUMBER A-7305
REGISTERED ARCHITECT
06/14/2024

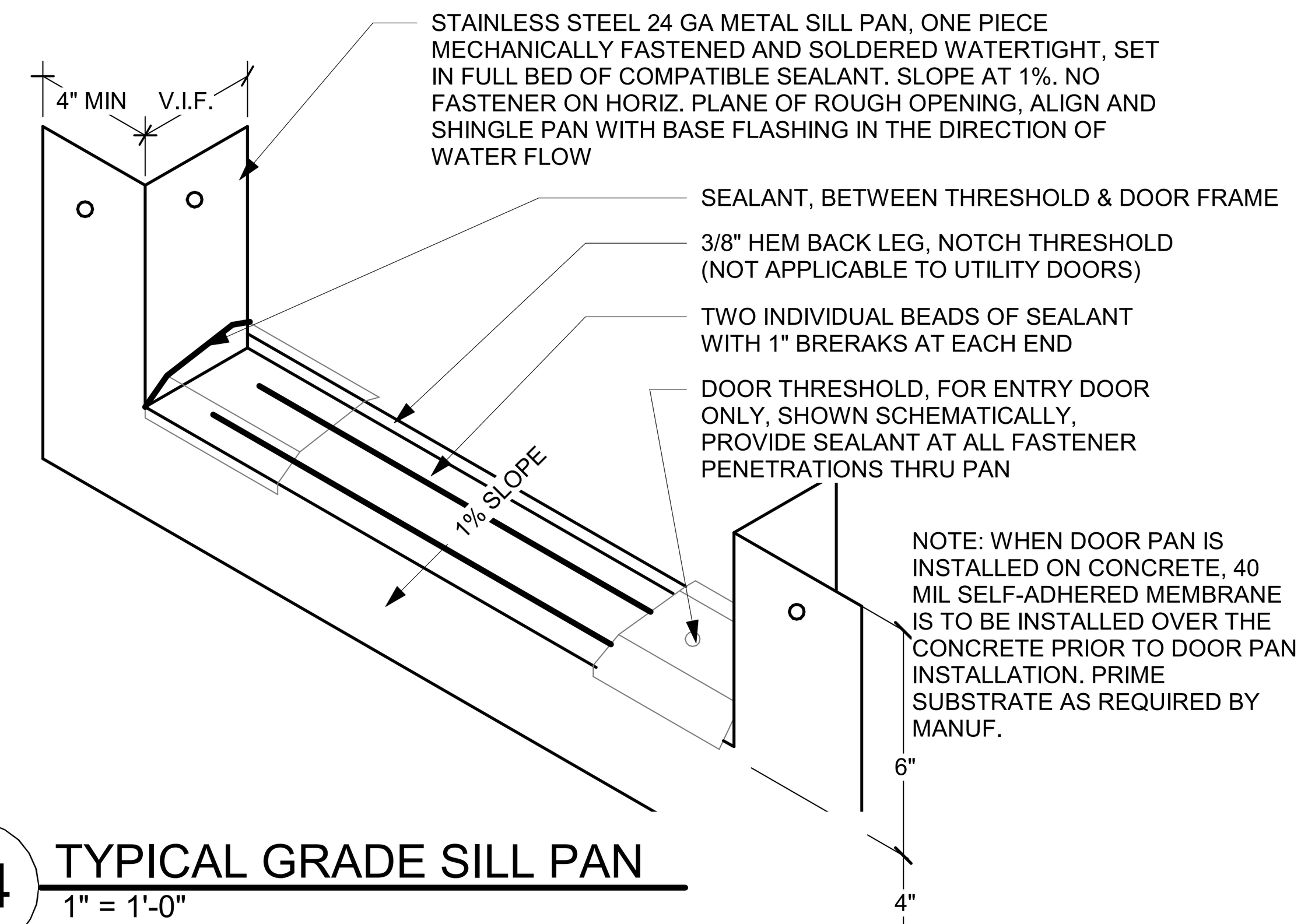
HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
STOREFRONT ELEVATIONS

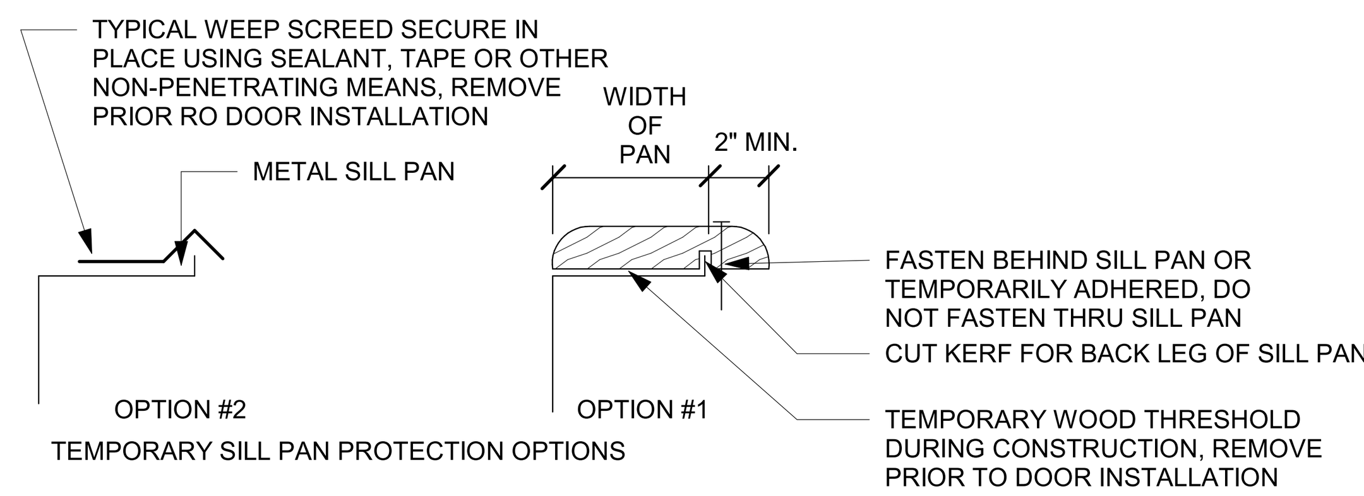
PROJECT NUMBER: 22023

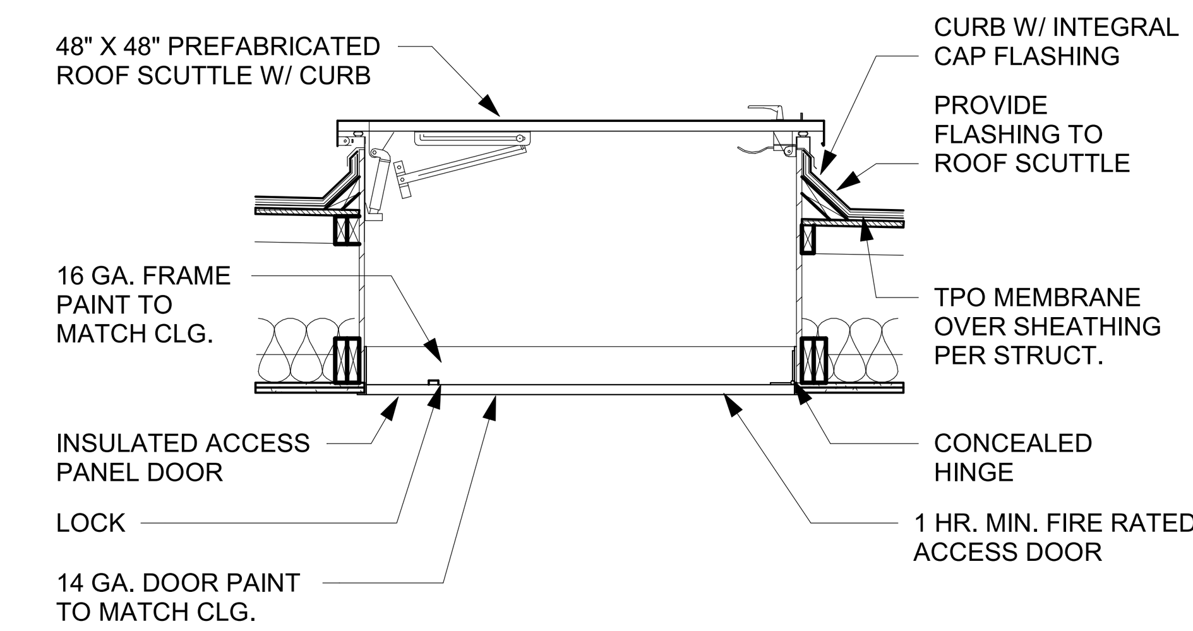
SHEET NUMBER:
A-601

REFERENCE G-003 FOR GENERAL NOTES

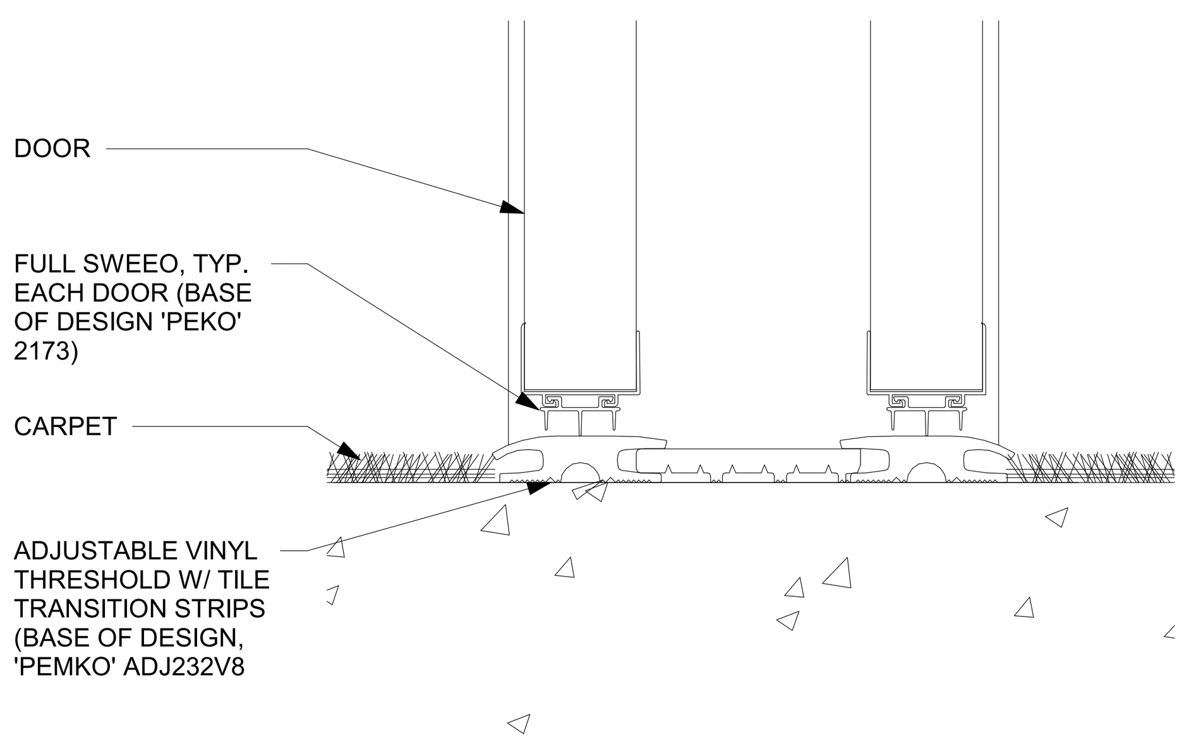


D4 TYPICAL GRADE SILL PAN
1" = 1'-0"

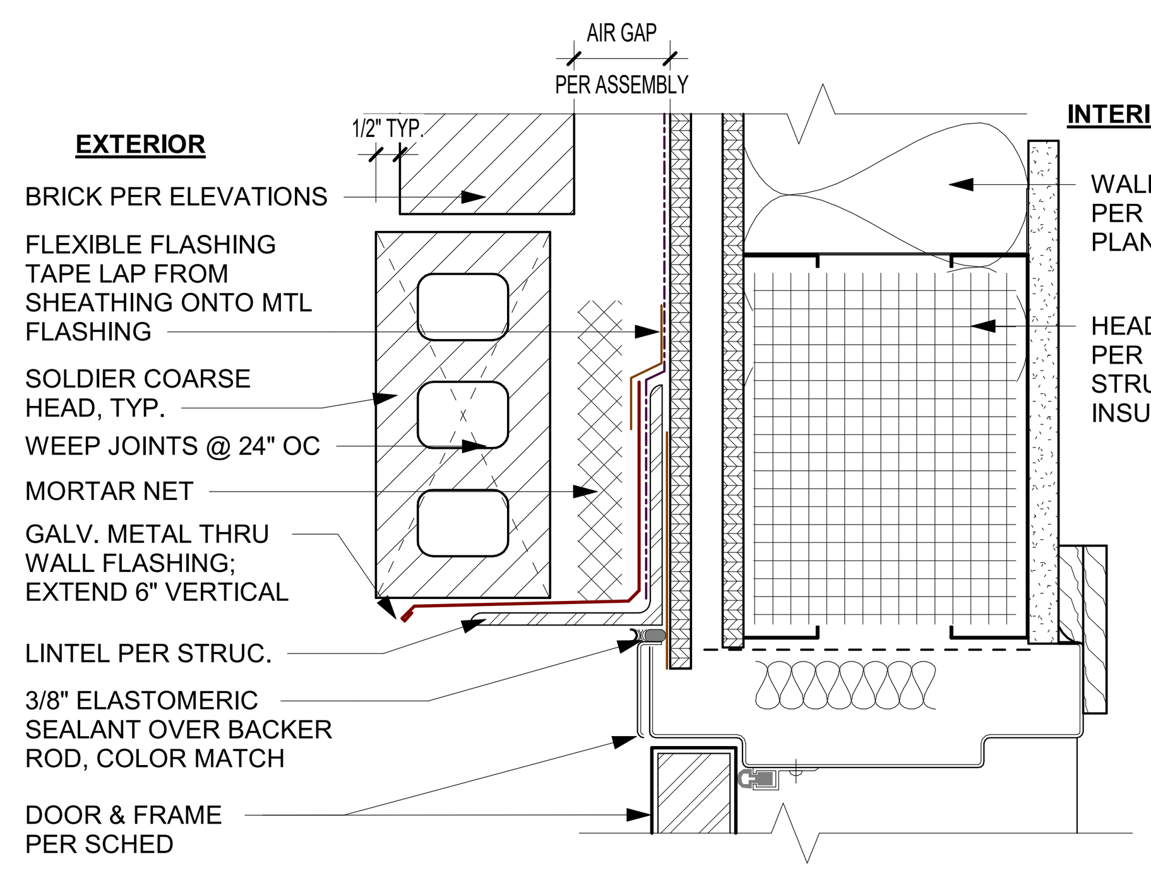




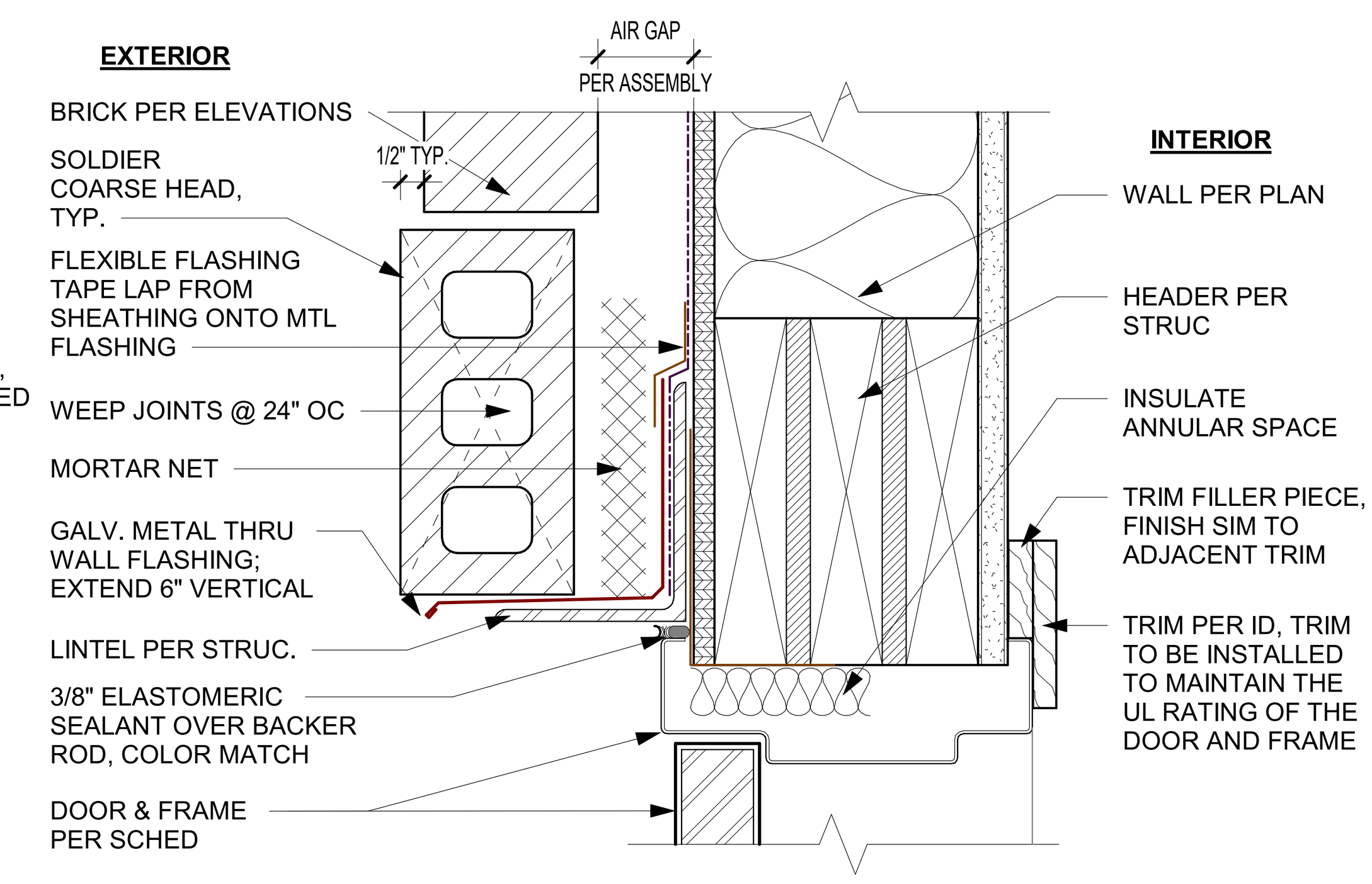
A4 ROOF SCUTTLE
1/2" = 1'-0"



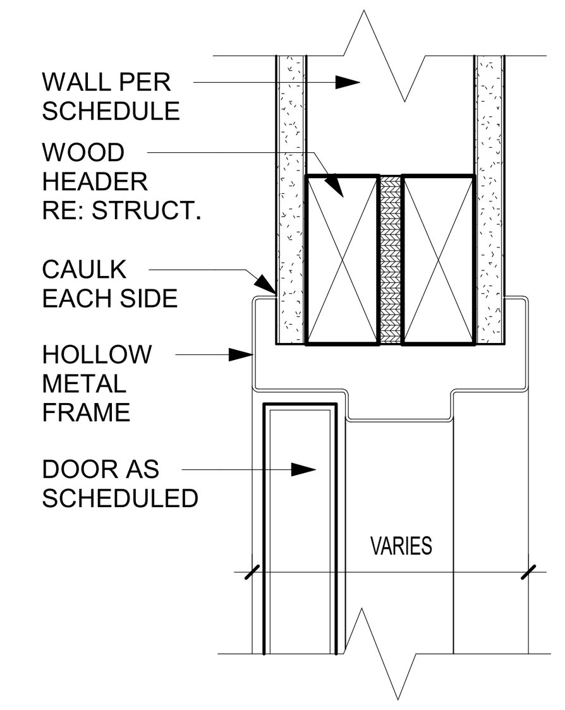
E3 THRESHOLD DETAIL AT CONNECTING DOOR
N.T.S.



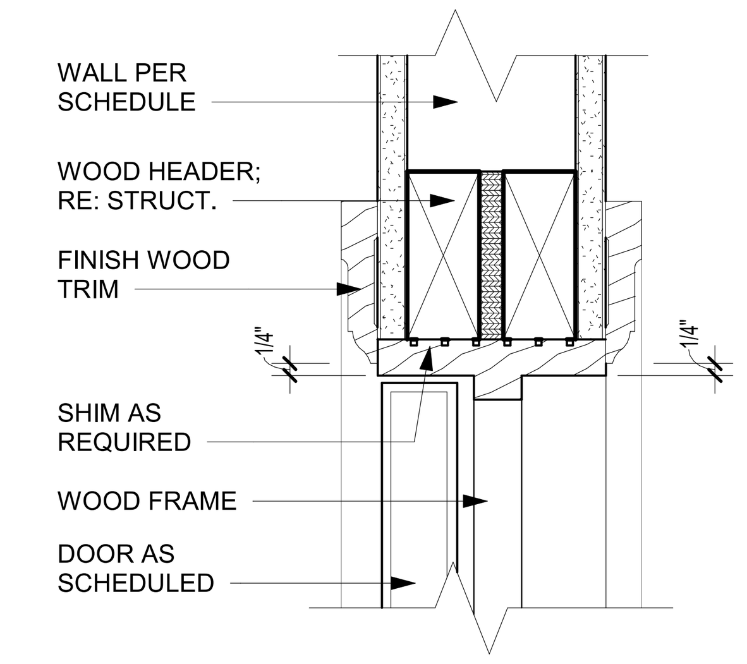
D3 EXTERIOR MTL DOOR HEAD- BRICK
3" = 1'-0"



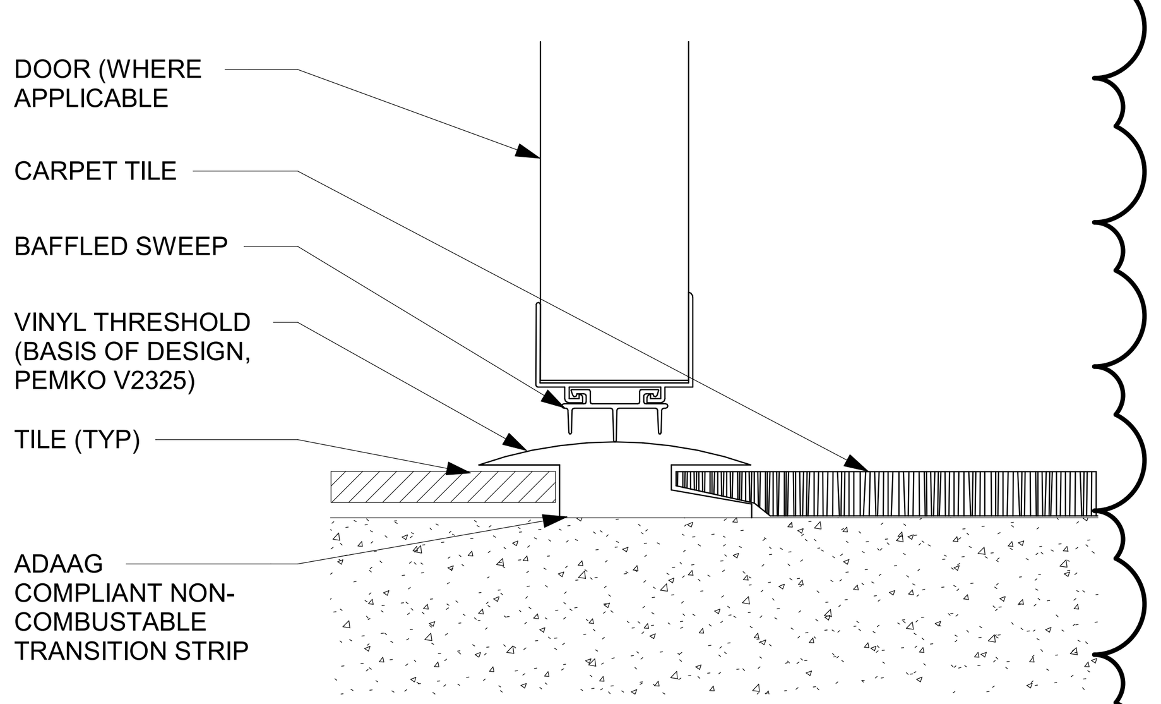
C3 EXTERIOR DOOR HEAD - BRICK
3" = 1'-0"



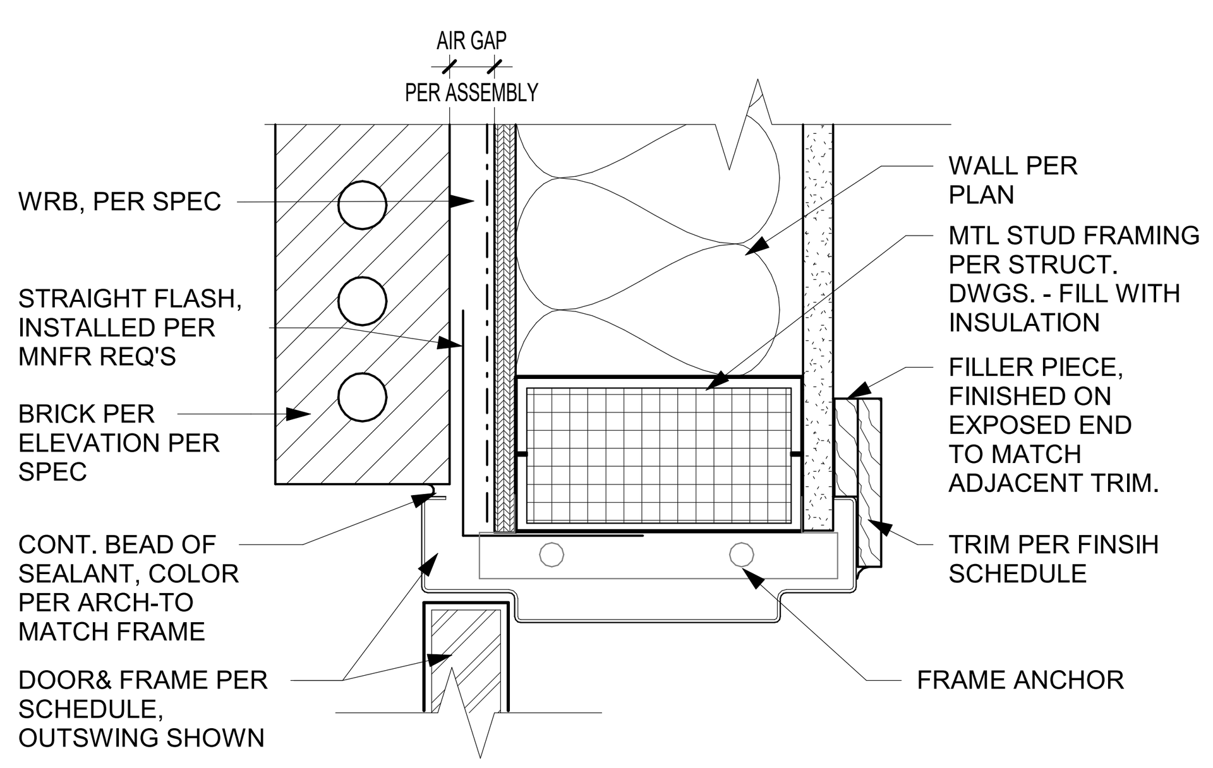
B3 INTERIOR DOOR HEAD - METAL
3" = 1'-0"



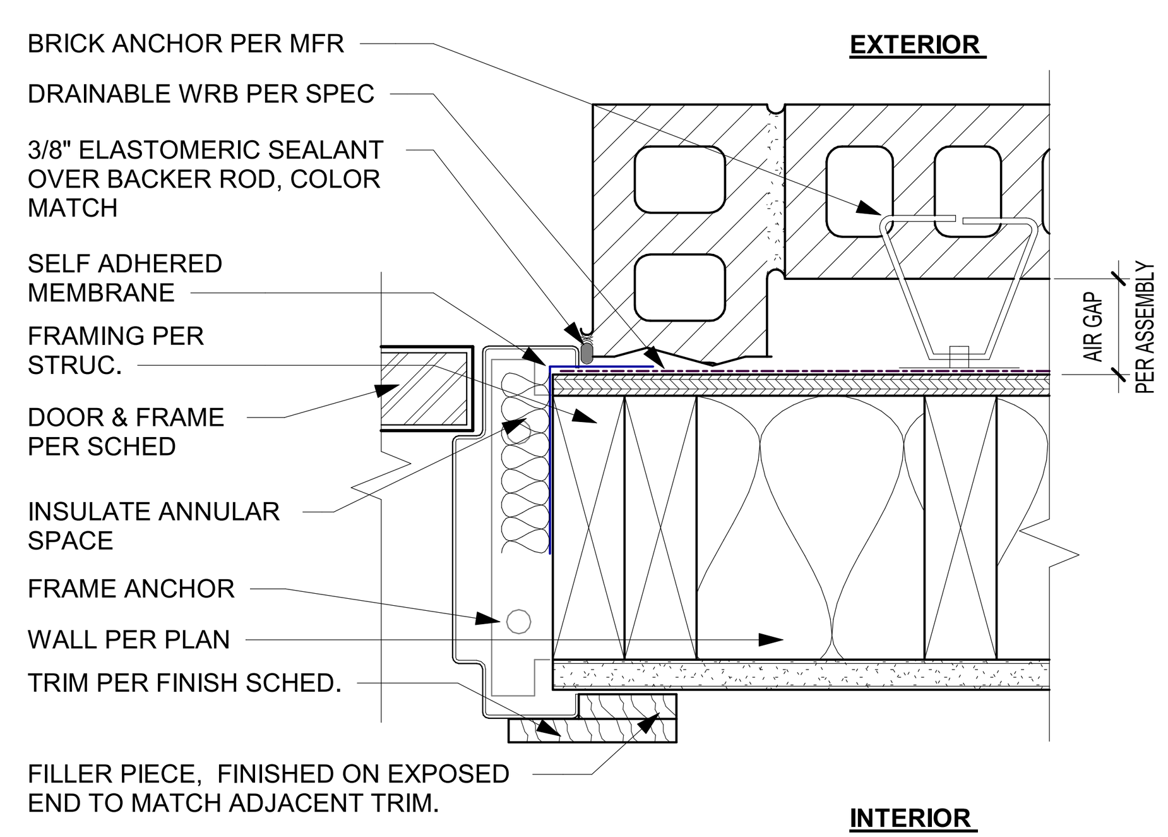
A3 INTERIOR DOOR HEAD - WOOD
3" = 1'-0"



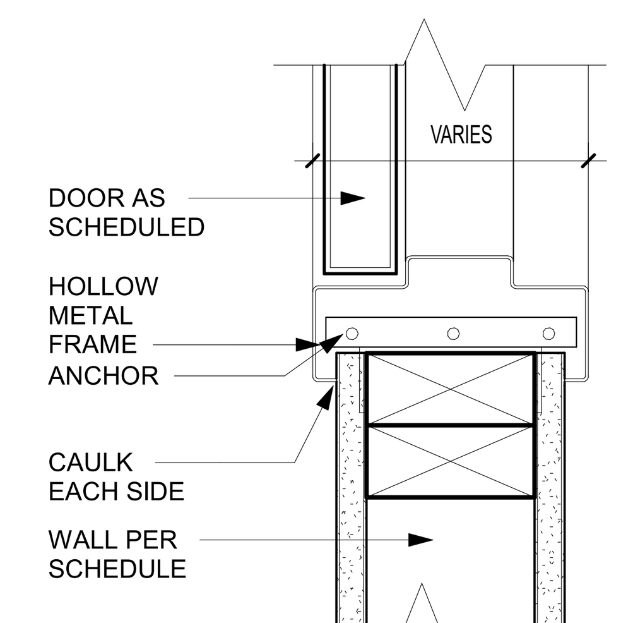
E2 THRESHOLD DETAIL AT GUESTROOM DOOR
N.T.S.



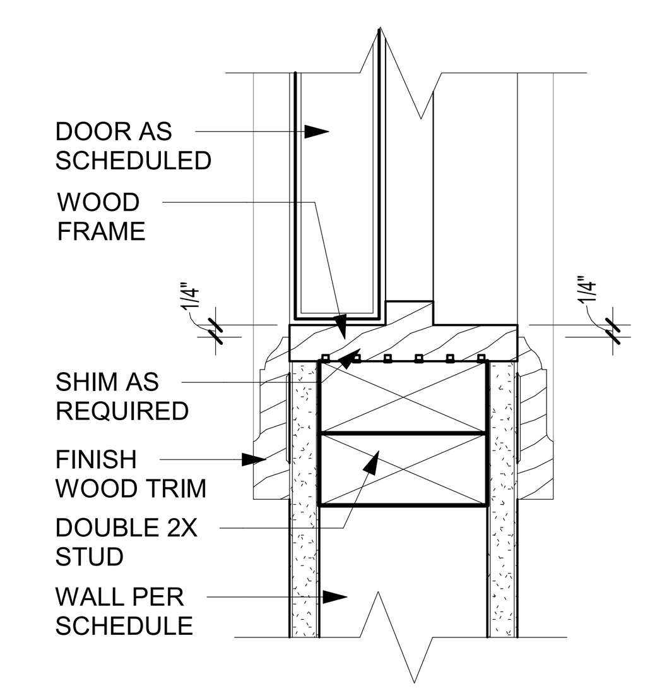
D2 EXTERIOR MTL DOOR JAMB - BRICK
3" = 1'-0"



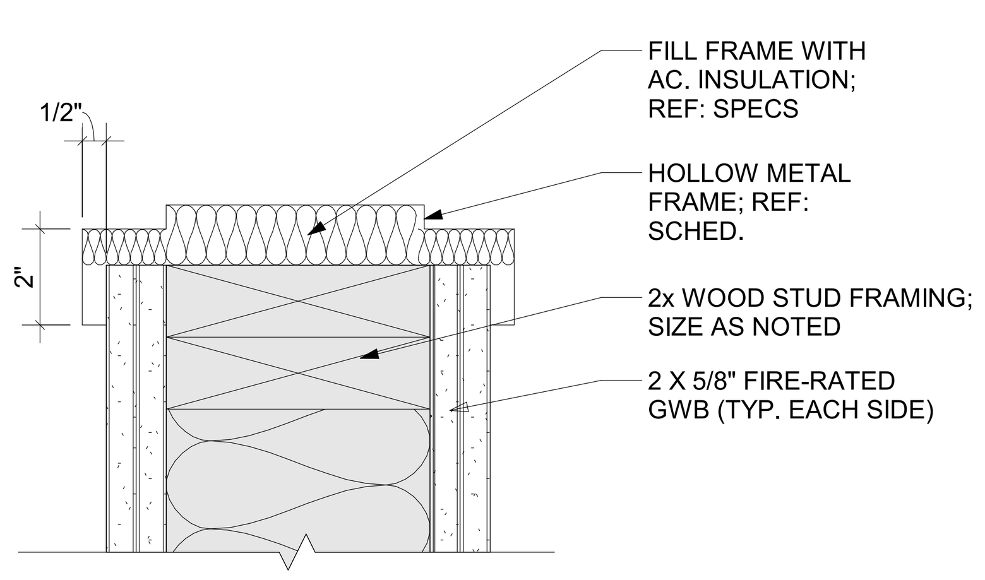
C2 EXTERIOR DOOR JAMB - BRICK
3" = 1'-0"



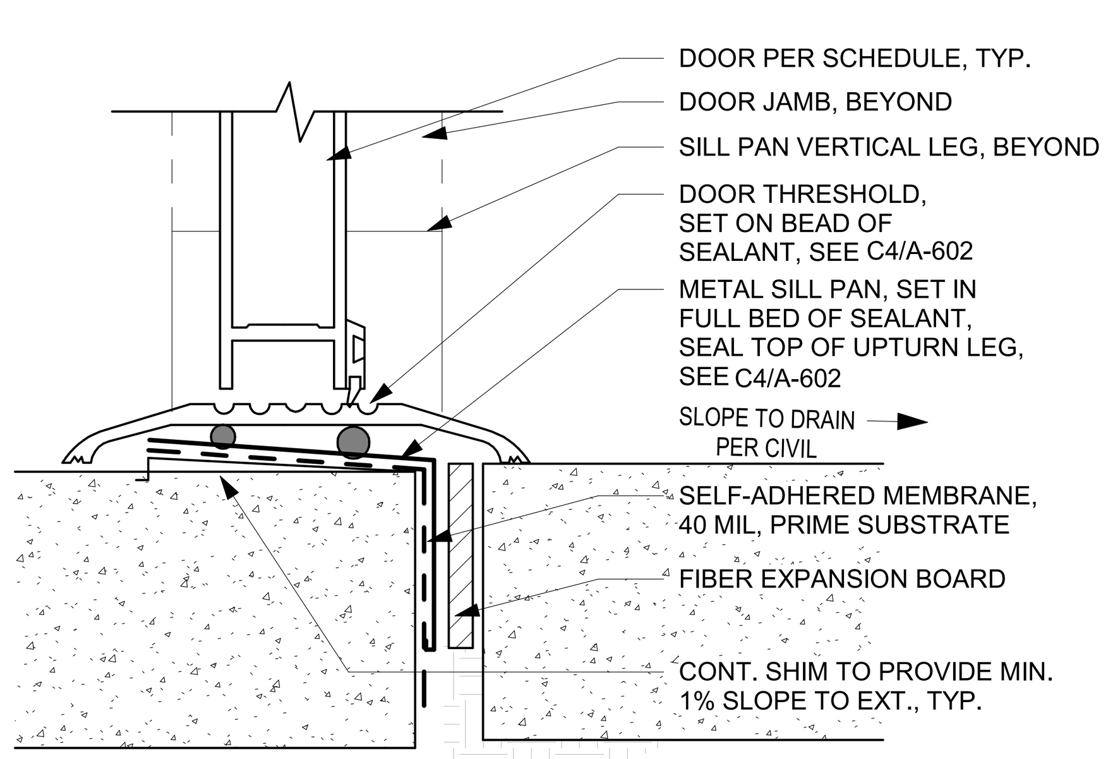
B2 INTERIOR DOOR JAMB - METAL
3" = 1'-0"



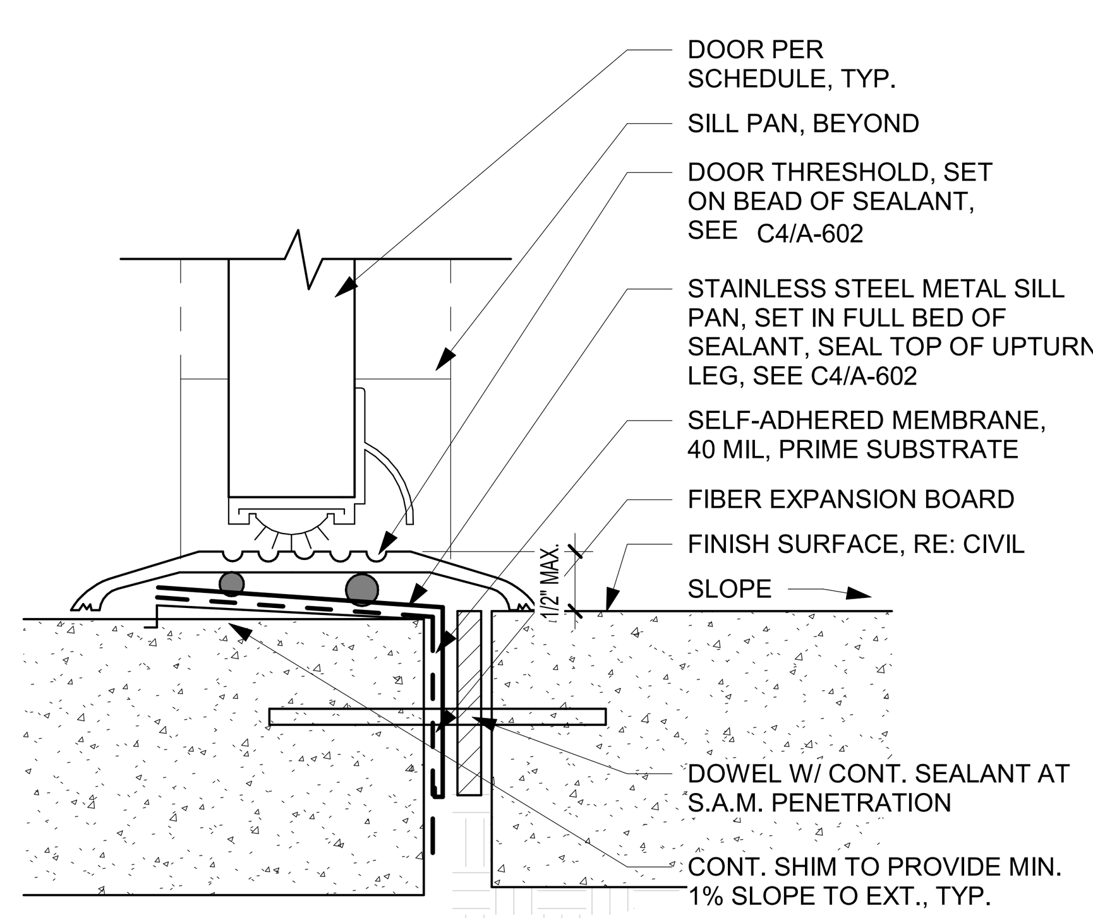
A2 INTERIOR DOOR JAMB - WOOD
3" = 1'-0"



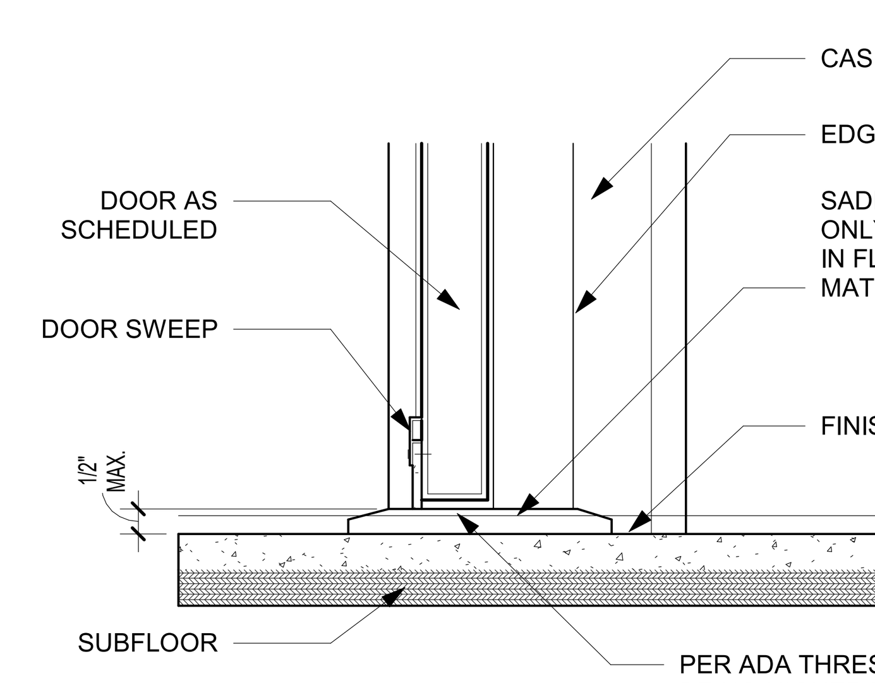
E1 GUESTROOM ENTRY & CONNECTOR DOOR
3" = 1'-0"



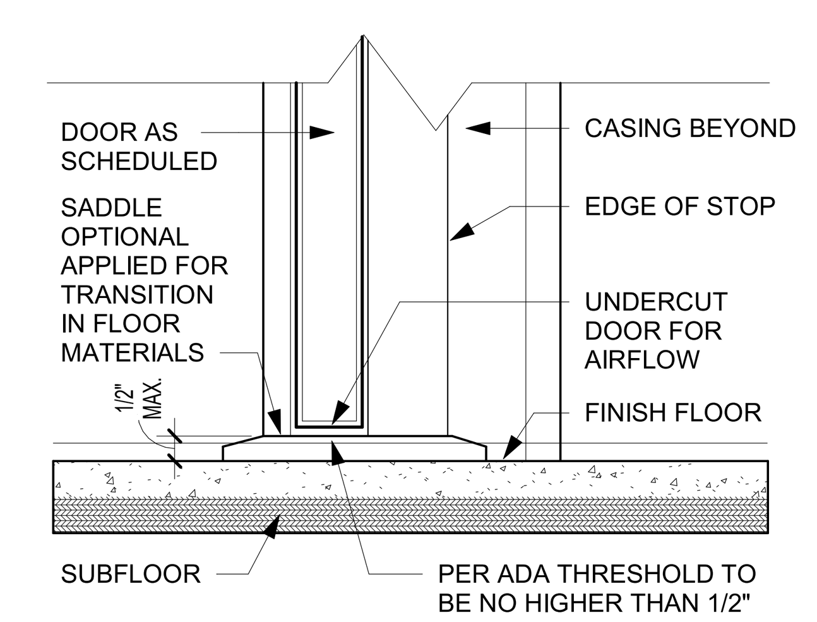
D1 EXTERIOR STOREFRONT THRESHOLD
1" = 1'-0"



C1 EXTERIOR DOOR THRESHOLD
1" = 1'-0"



B1 INTERIOR RATED DOOR SILL
3" = 1'-0"



A1 INTERIOR DOOR SILL
3" = 1'-0"

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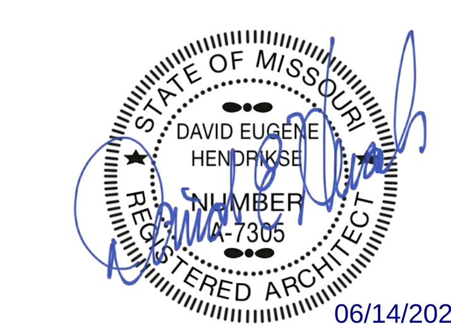


HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
DOOR DETAILS

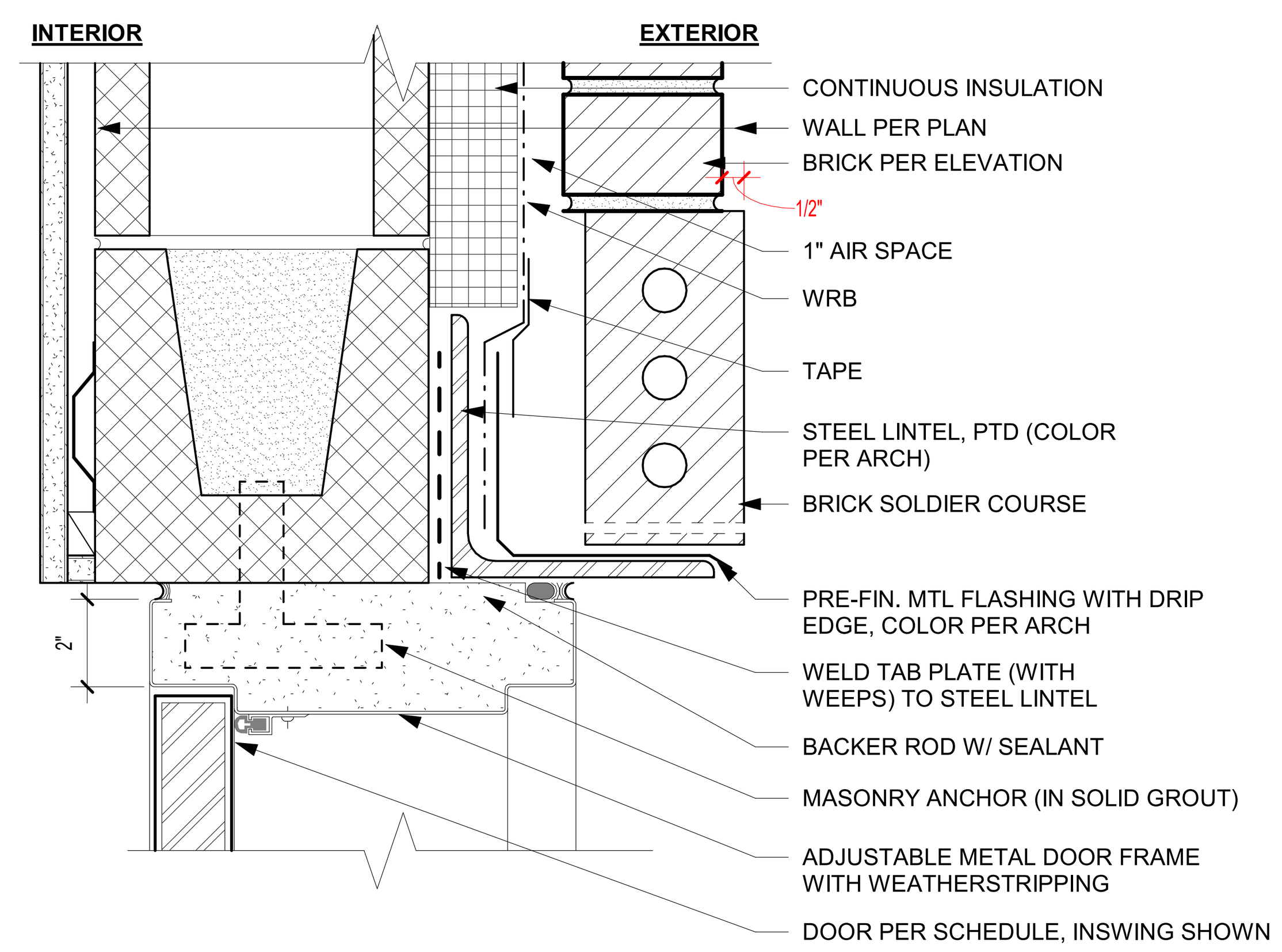
PROJECT NUMBER: 22023

SHEET NUMBER:

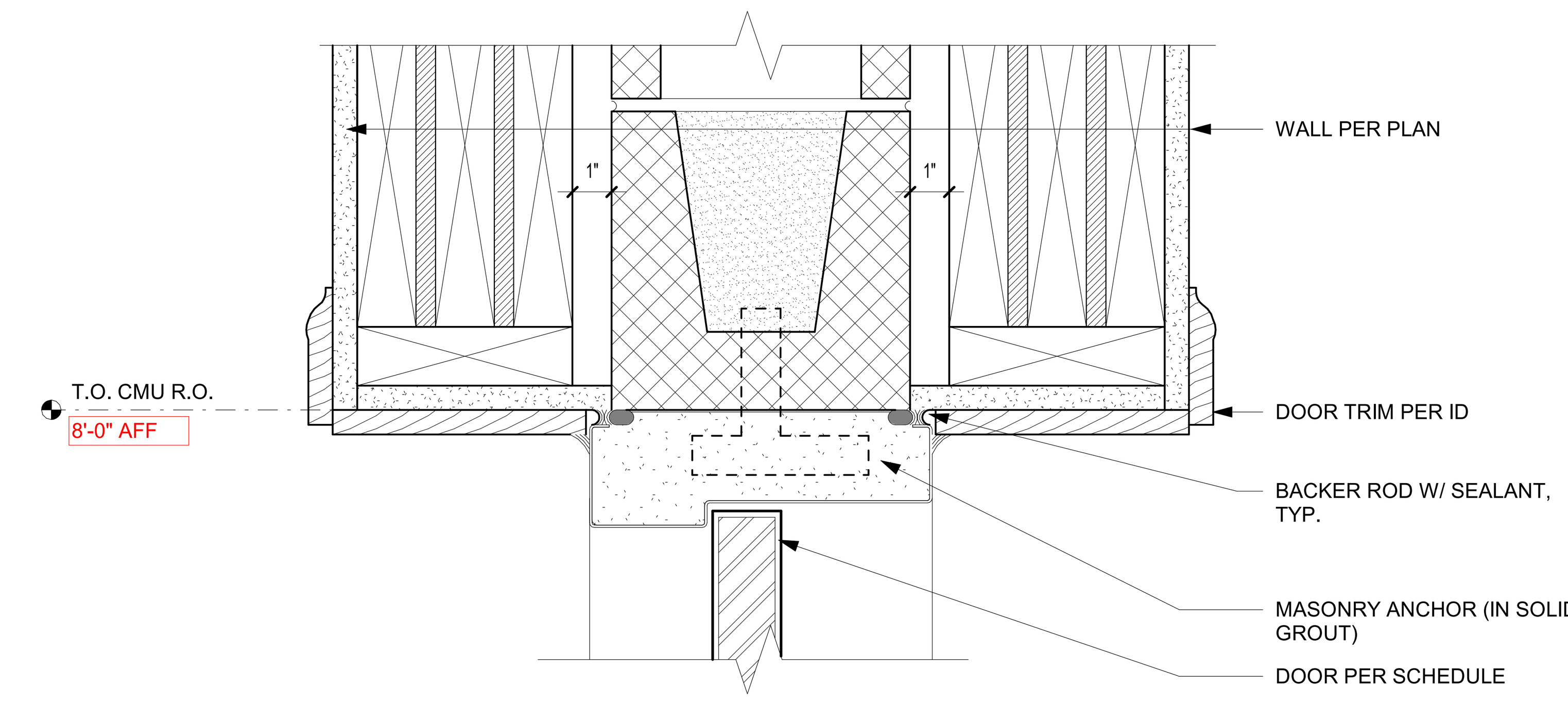
A-602

6/13/2024 4:22:09 PM

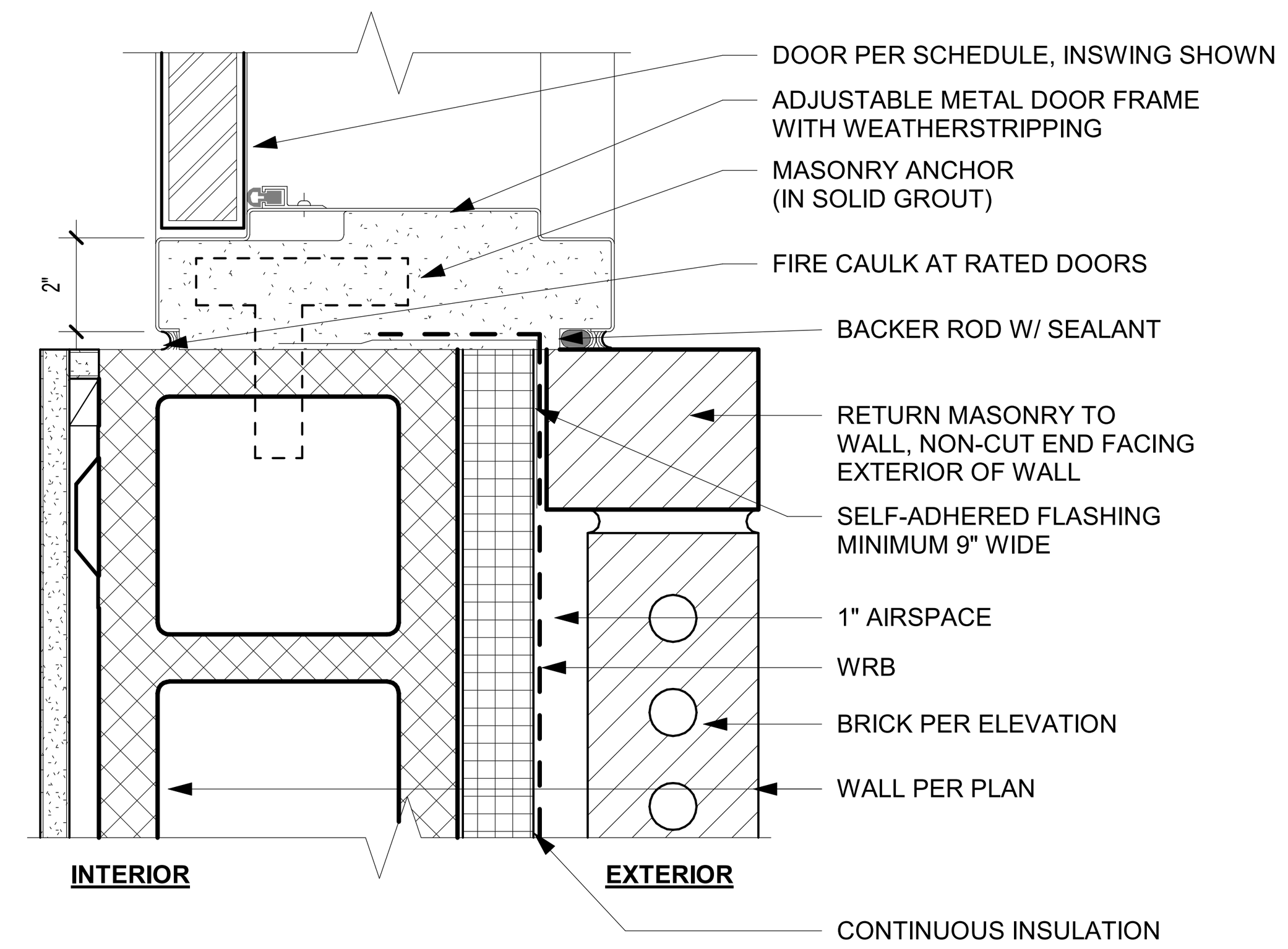
REFERENCE G-003 FOR GENERAL NOTES



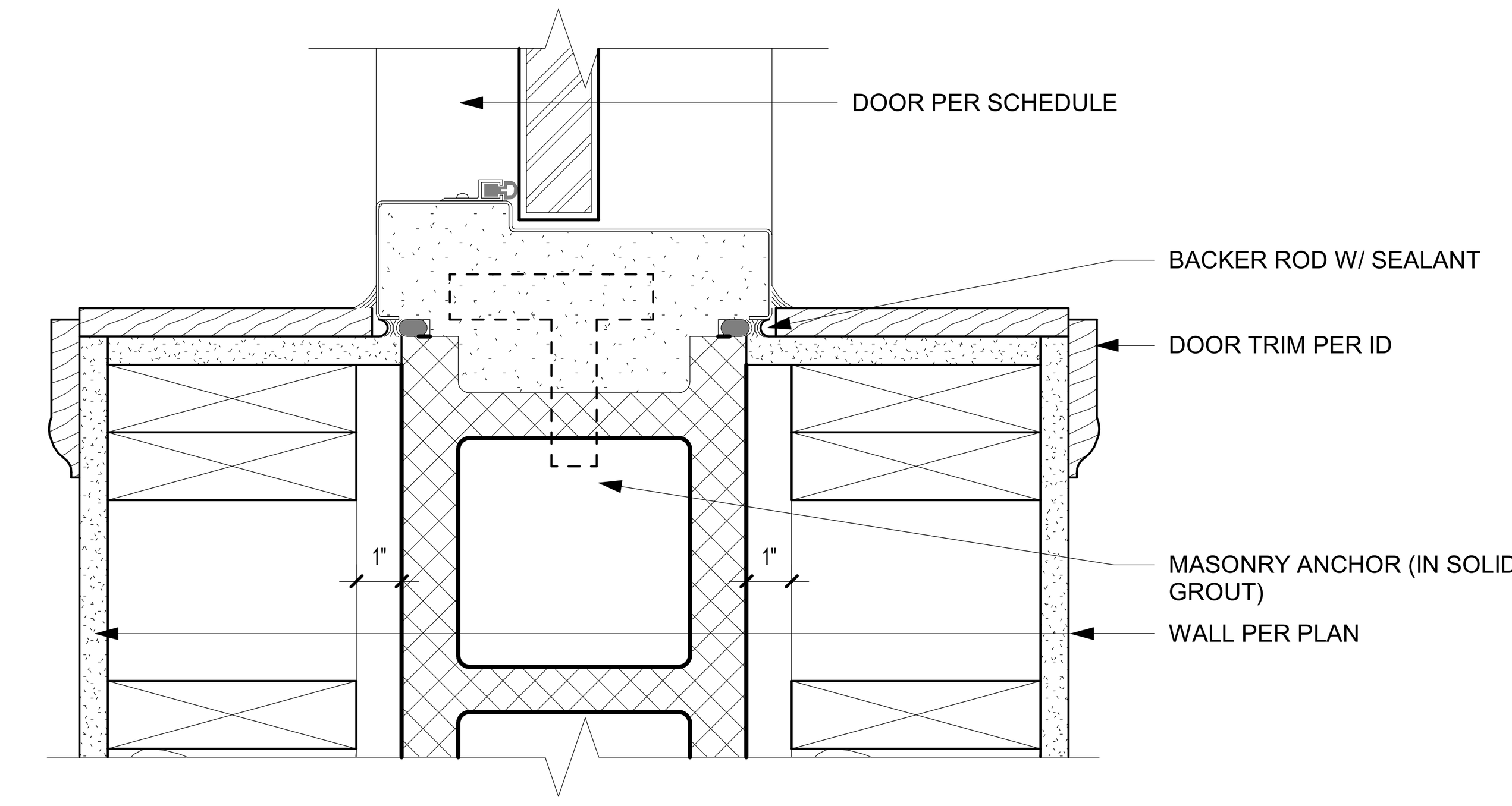
B3 EXTERIOR DOOR HEAD - CMU
3" = 1'-0"



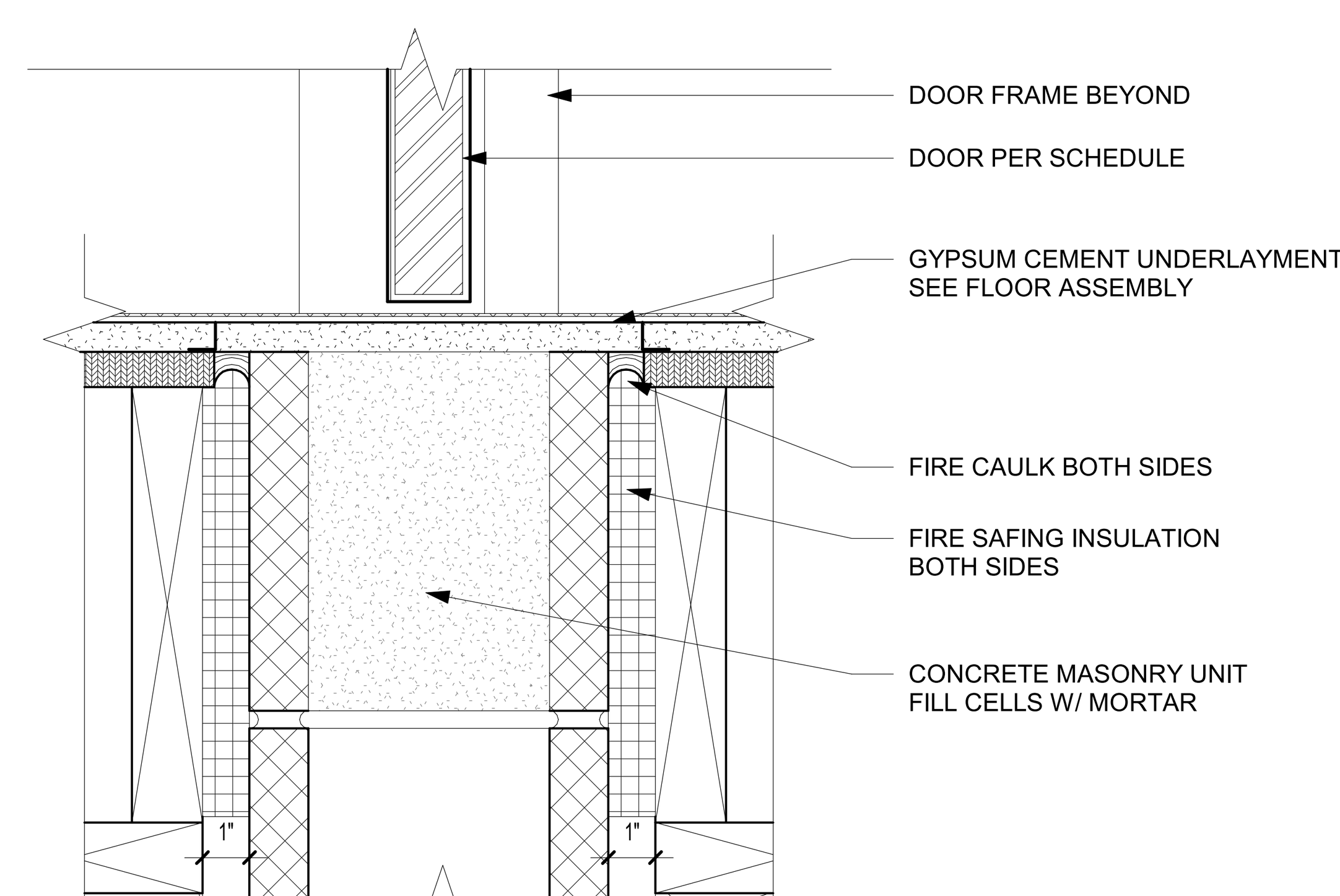
A3 INTERIOR DOOR HEAD - CMU
3" = 1'-0"



B2 EXTERIOR DOOR JAMB - CMU
3" = 1'-0"



A2 INTERIOR DOOR JAMB - CMU
3" = 1'-0"



A1 INTERIOR DOOR SILL - CMU THRESHOLD
3" = 1'-0"

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STATE OF MISSOURI
DAVID EUGENE HENDRICKSE
NUMBER
7305
REGISTERED ARCHITECT
04/17/2024

HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

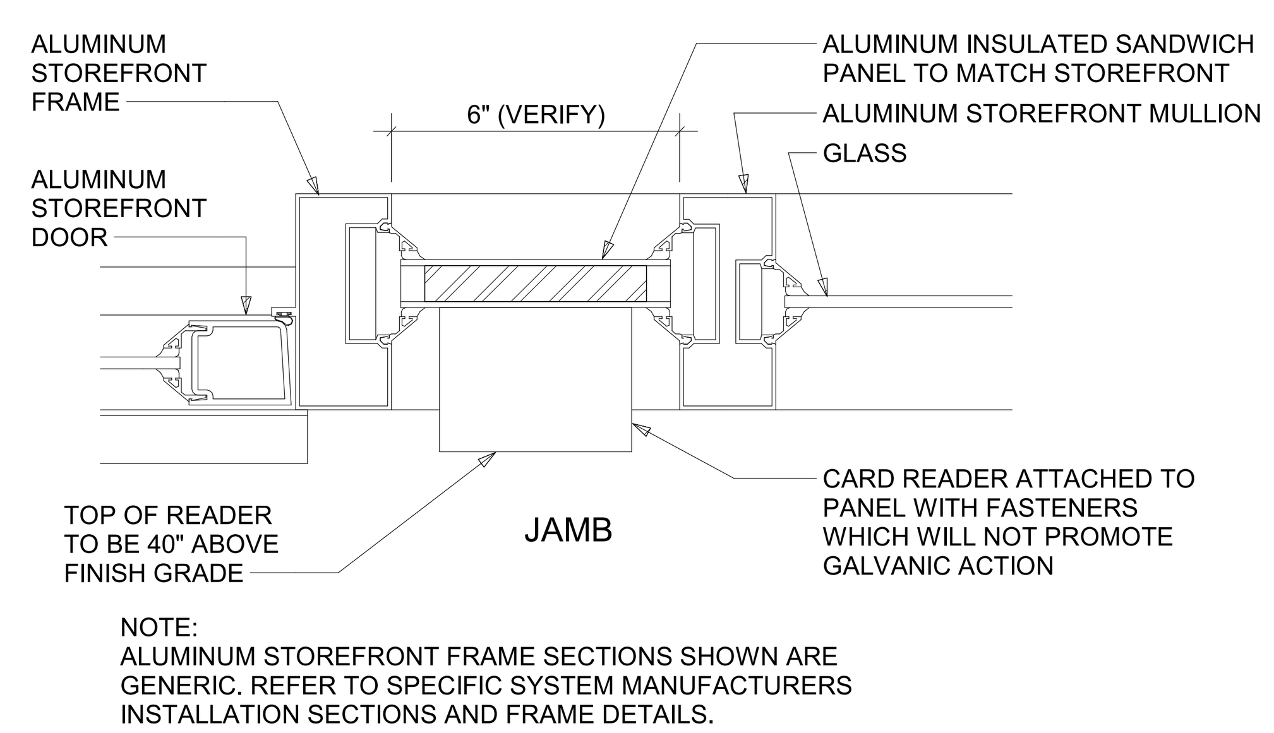
SHEET TITLE
DOOR DETAILS

PROJECT NUMBER: 22023

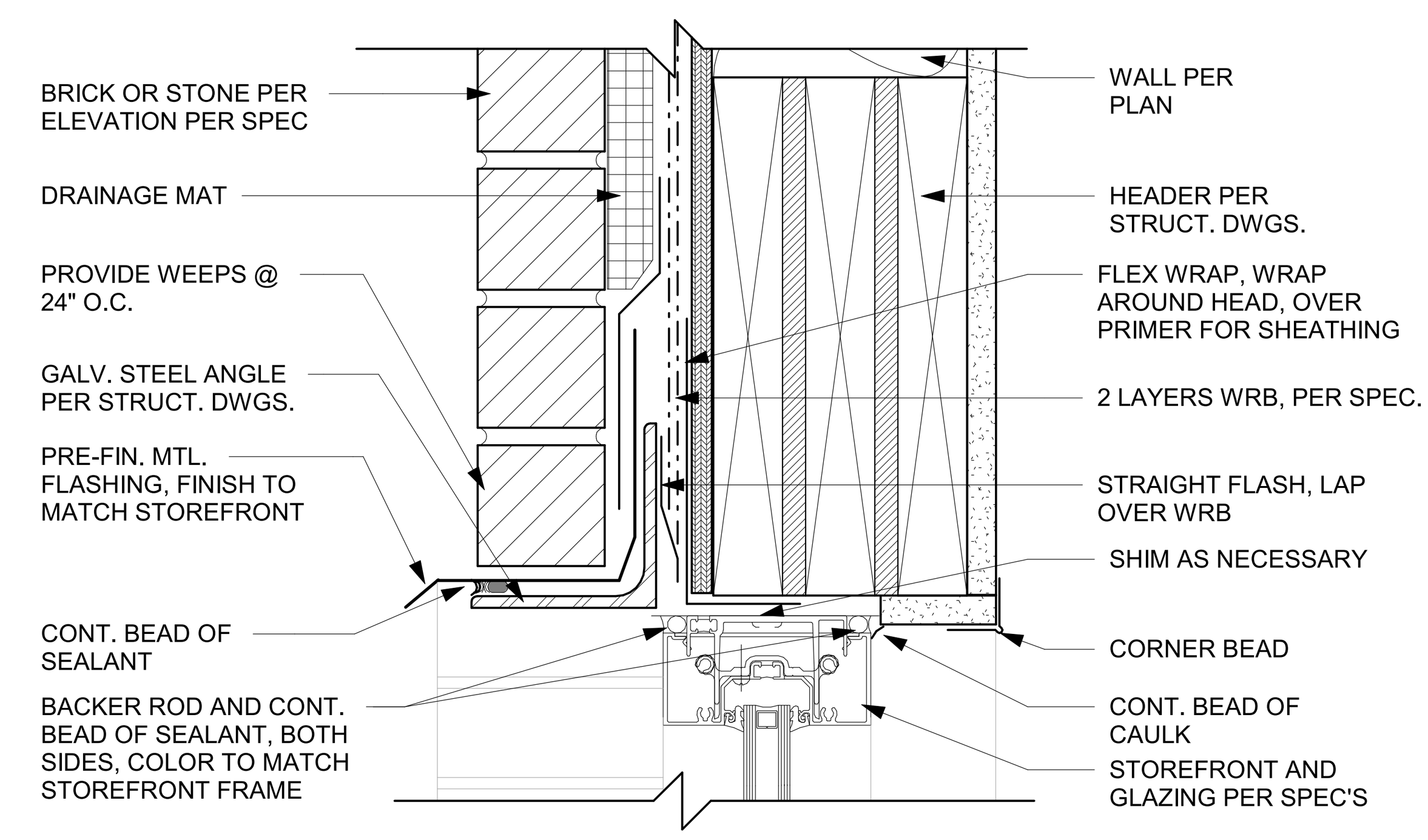
SHEET NUMBER:

A-603

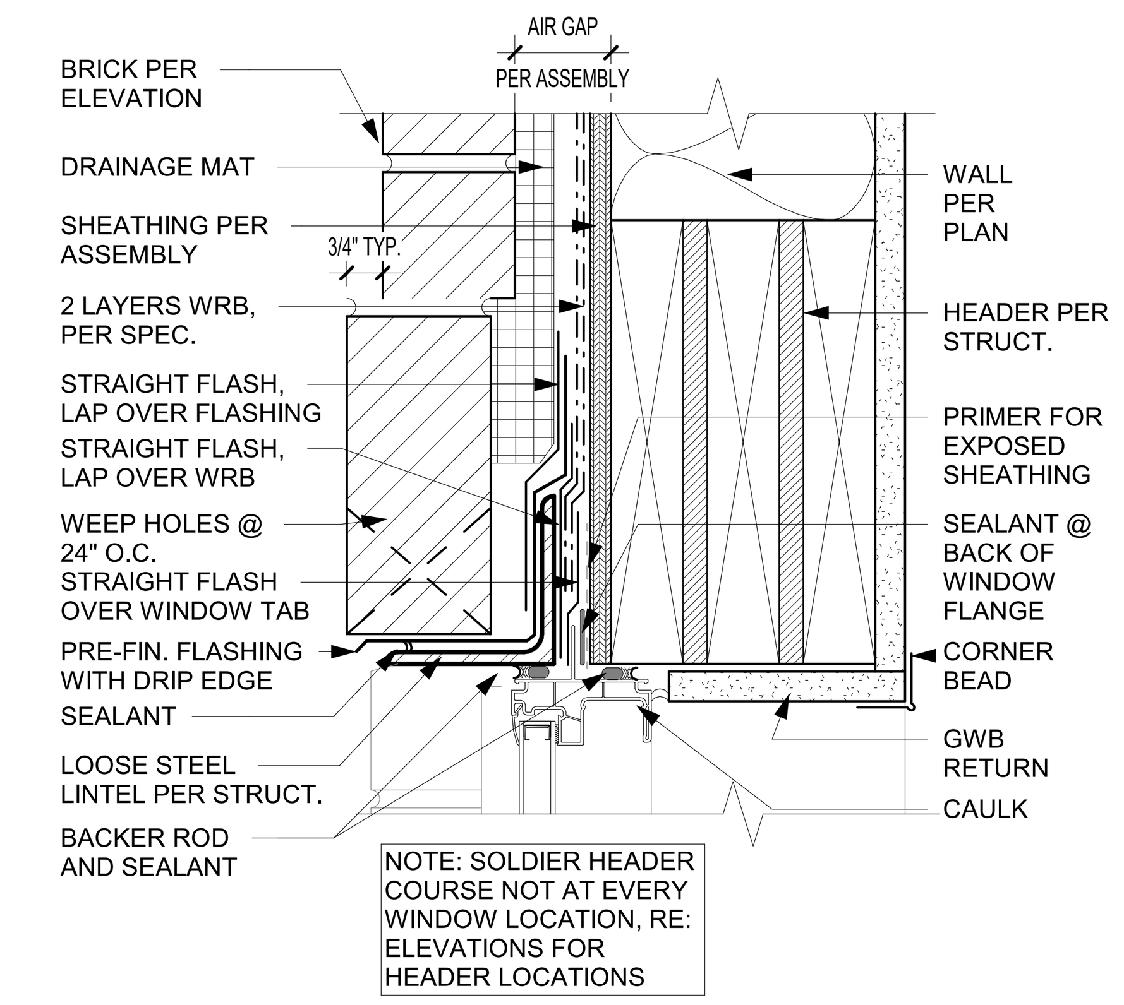
REFERENCE G-003 FOR GENERAL NOTES



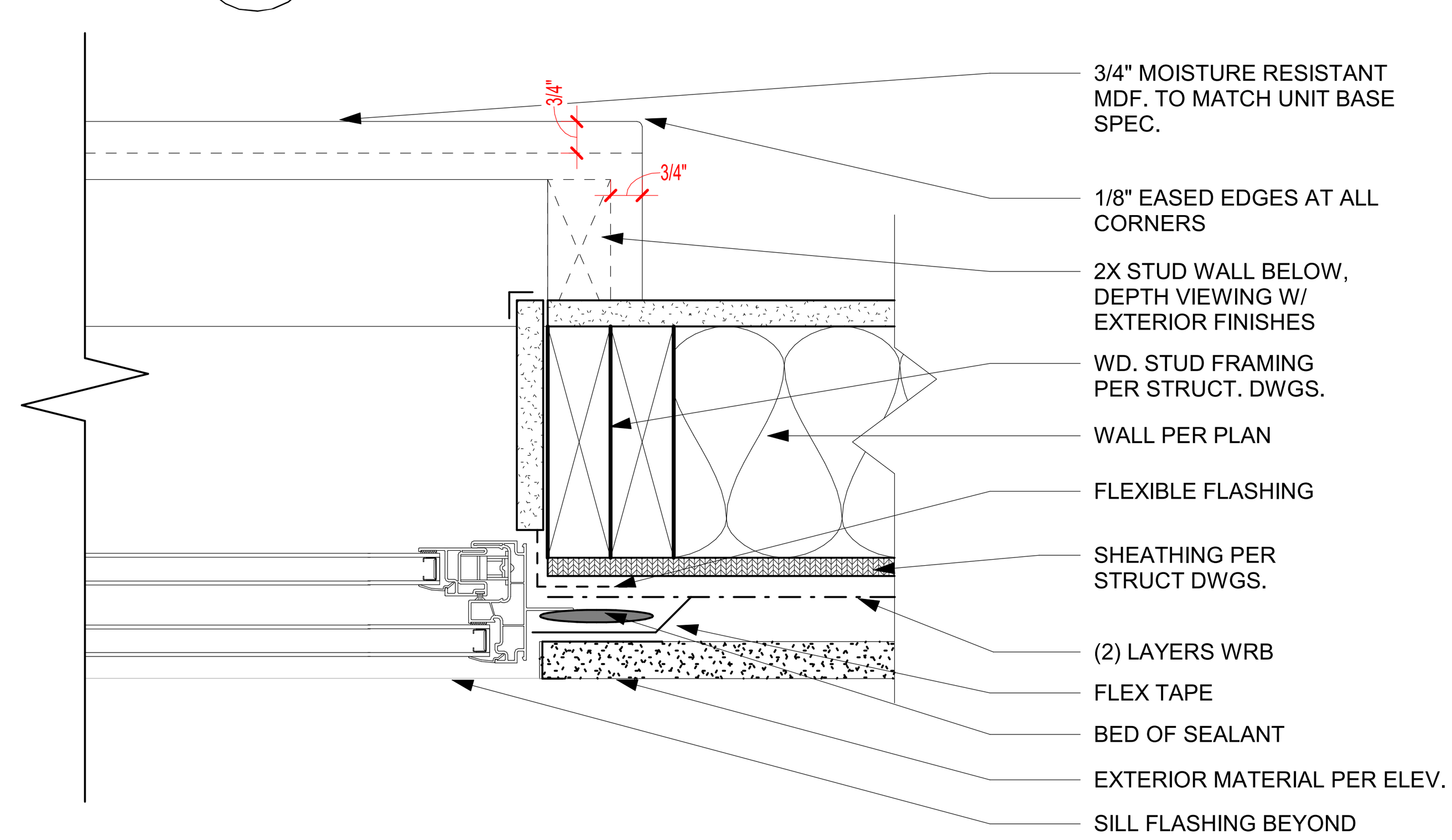
C3 CARD READER @ STOREFRONT DOORS
3" = 1'-0"



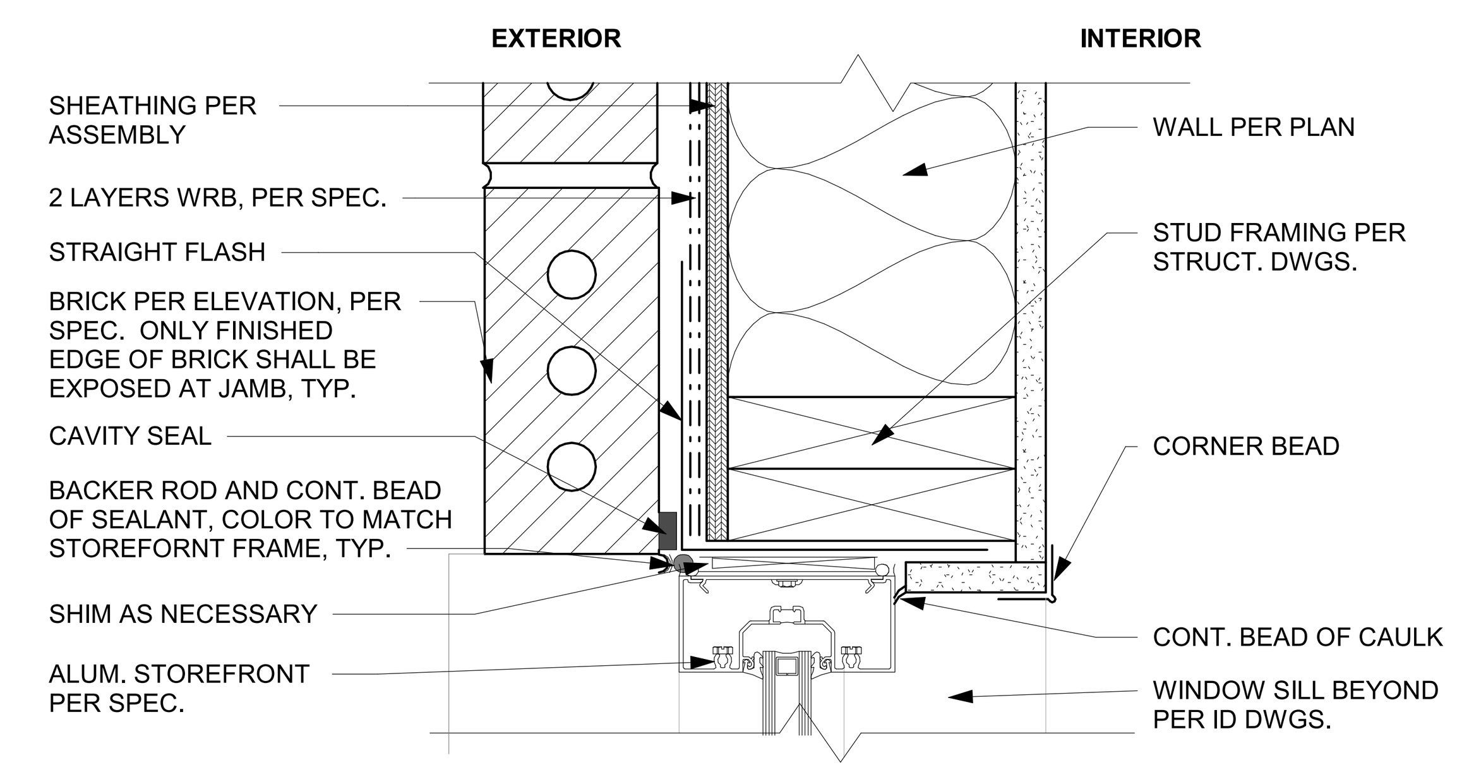
B3 STOREFRONT HEAD - BRICK
3" = 1'-0"



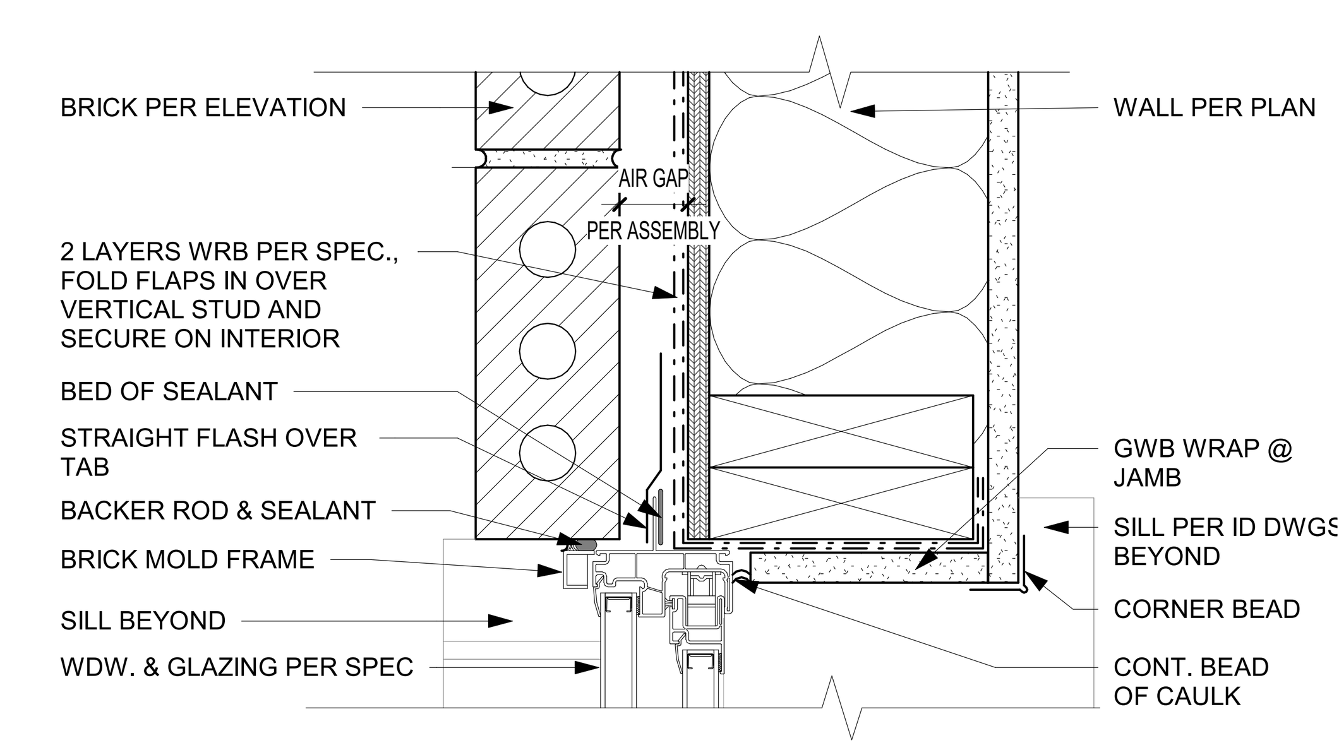
A3 WINDOW HEAD - BRICK
3" = 1'-0"



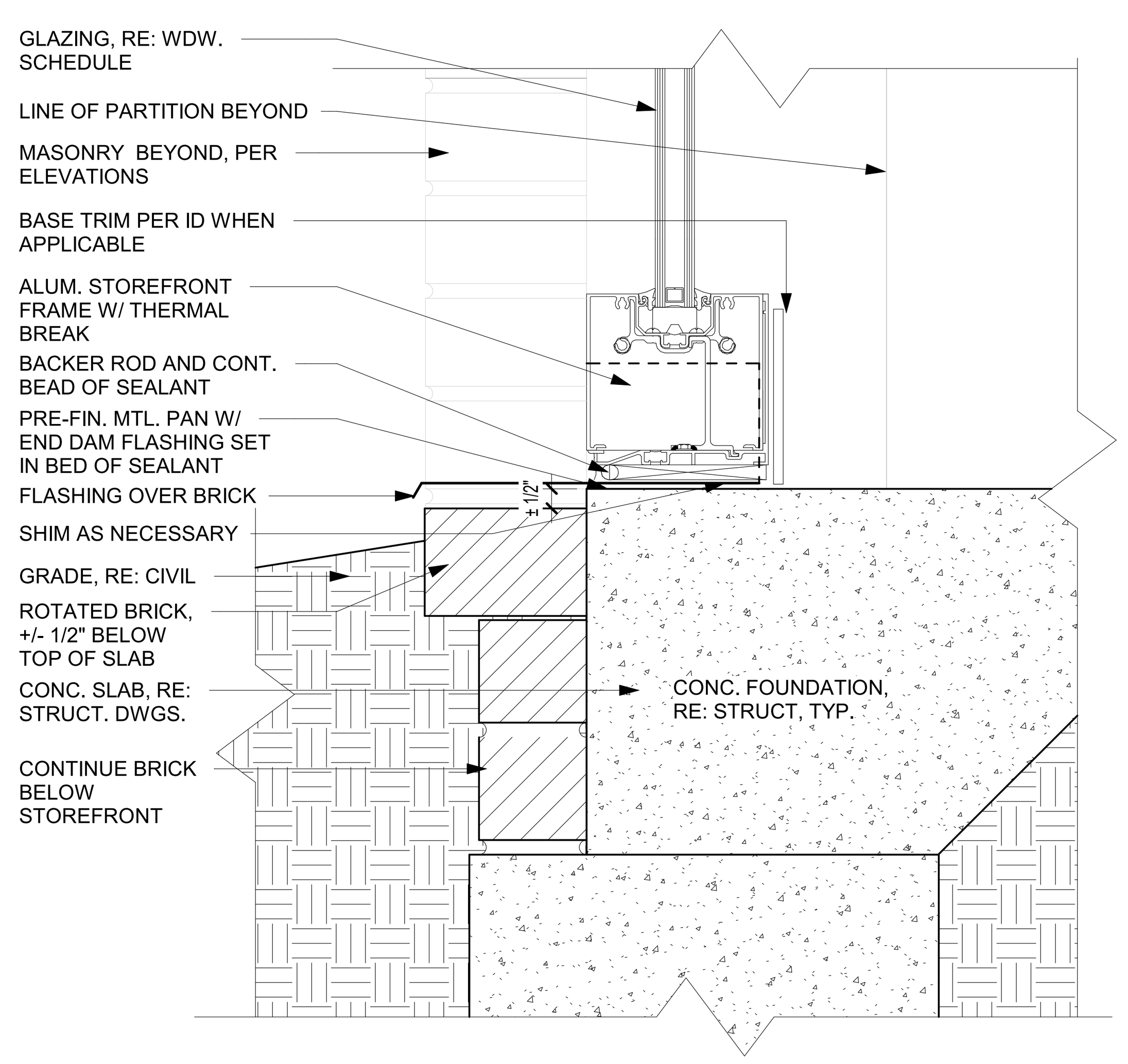
C2 WINDOW/INTERIOR - TRIM @ WINDOW JAMB
3" = 1'-0"



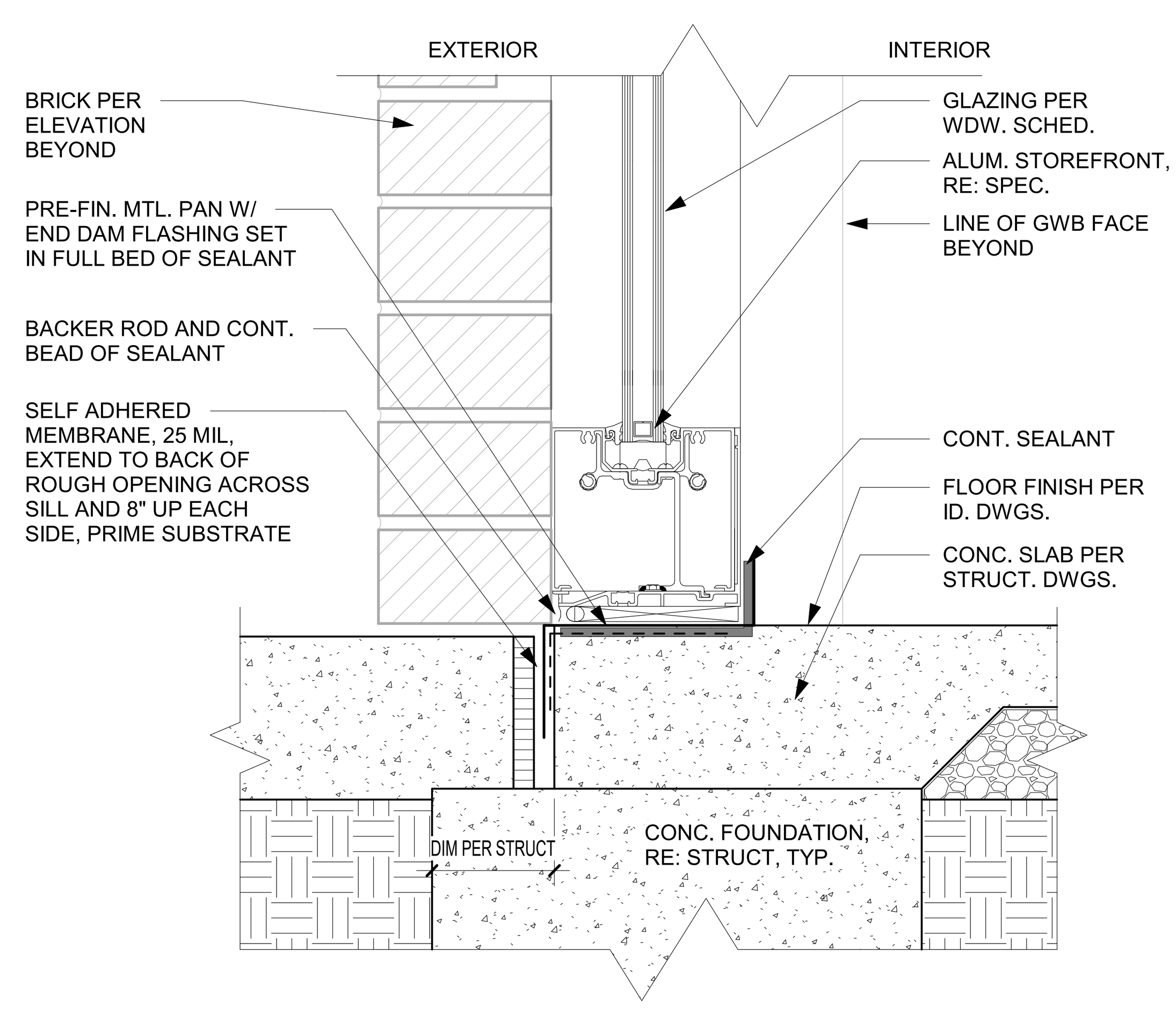
B2 STOREFRONT JAMB - BRICK
3" = 1'-0"



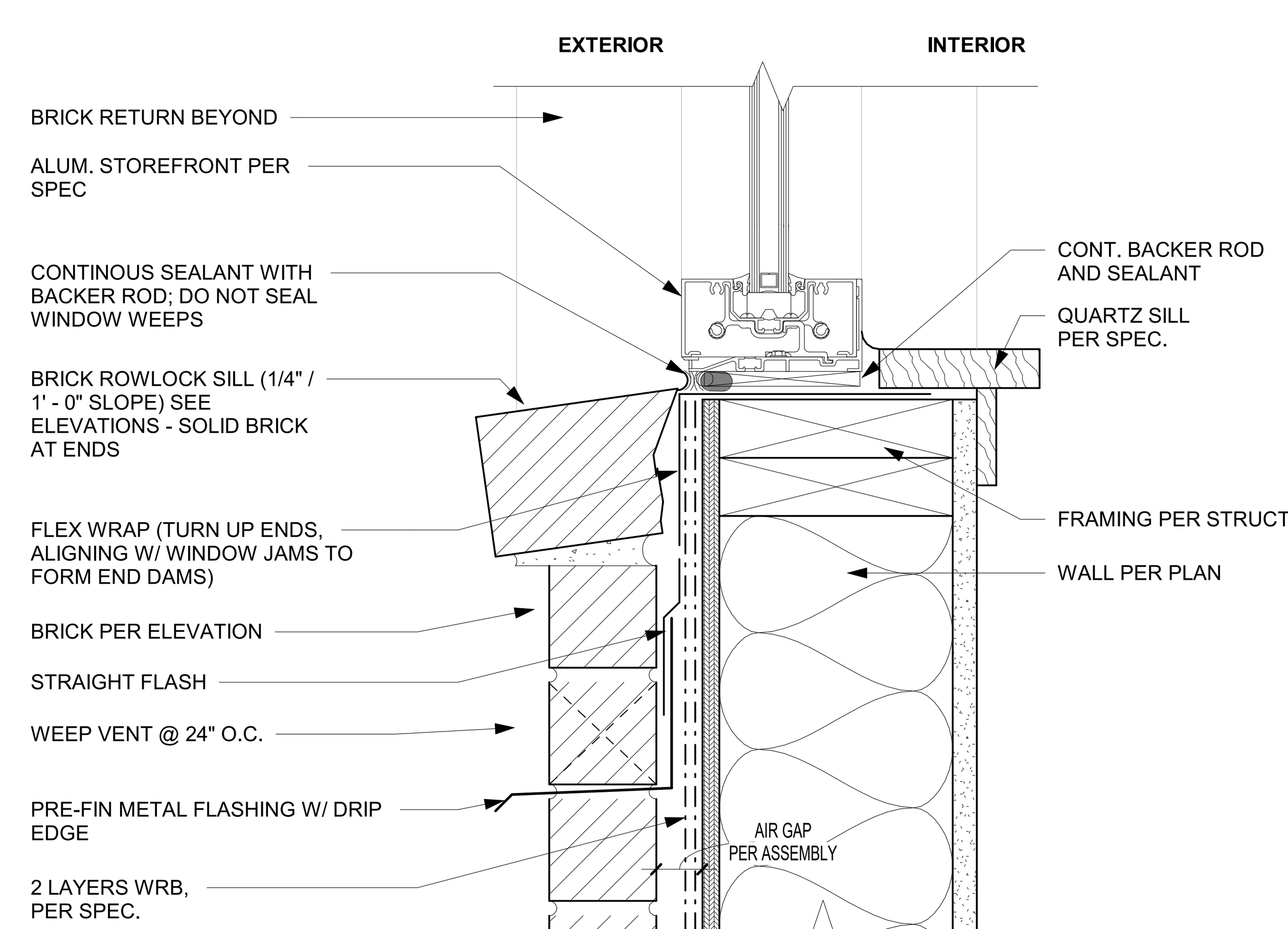
A2 WINDOW JAMB - BRICK
3" = 1'-0"



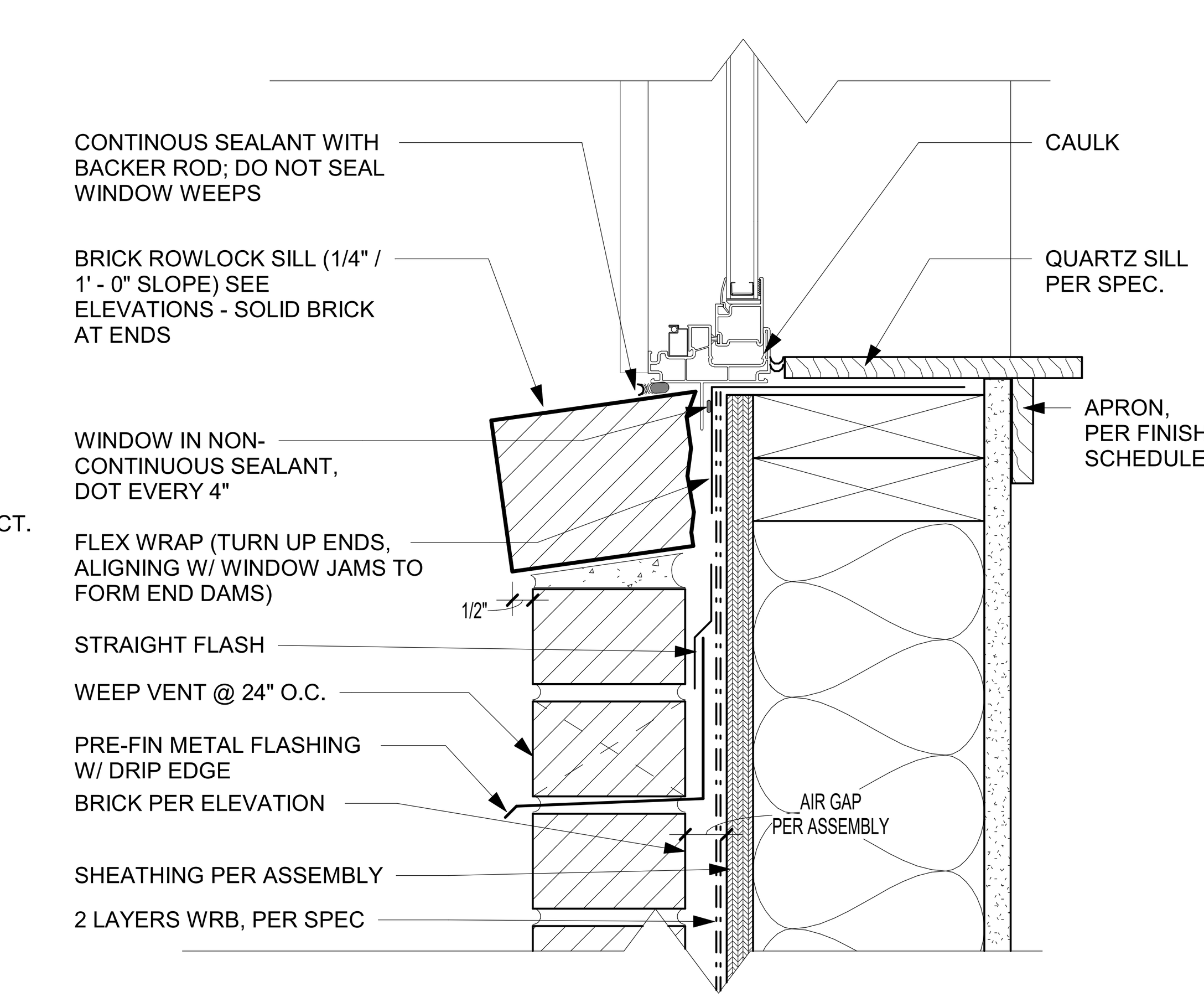
D1 STOREFRONT THRESHOLD - GRADE
3" = 1'-0"



C1 STOREFRONT THRESHOLD - HARDSCAPE
3" = 1'-0"



B1 STOREFRONT SILL - BRICK
3" = 1'-0"



A1 WINDOW SILL - BRICK
3" = 1'-0"

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STATE OF MISSOURI
DAVID EUGENE HENDRIKSE
NUMBER A-7305
REGISTERED ARCHITECT
04/17/2024

HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
WINDOW DETAILS

PROJECT NUMBER: 22023

SHEET NUMBER:

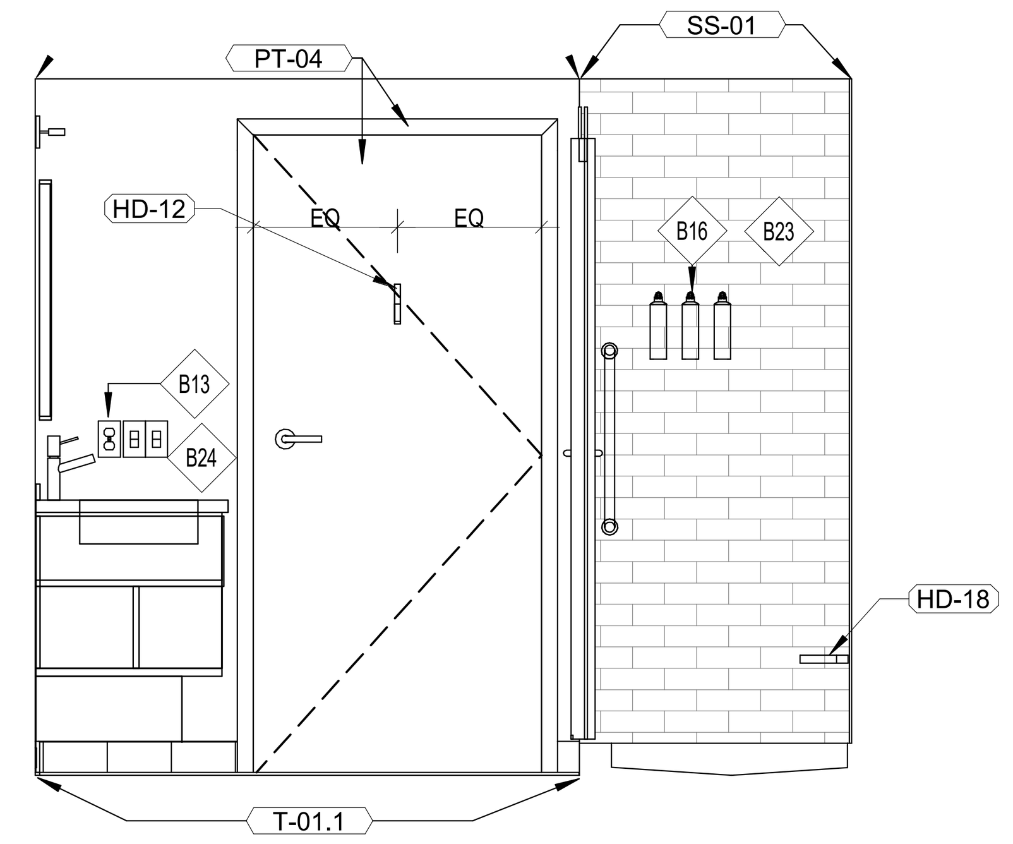
A-604

4/17/2024 4:53:37 PM
C:\Revit Local Cache\2023\22023_Home2 Suites_Central_R23_sburdick7PQKD.rvt

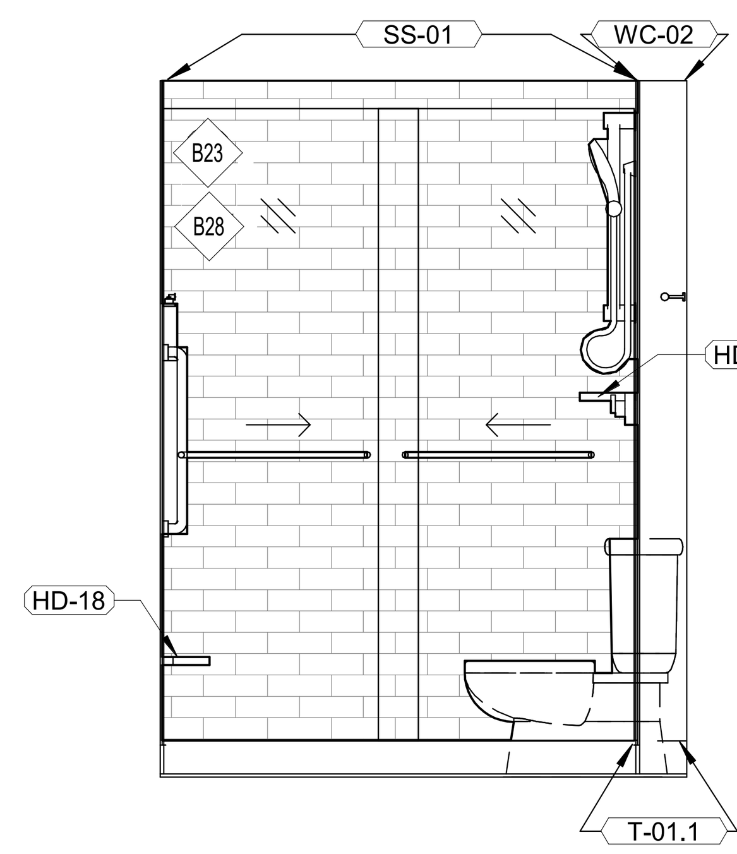
REFERENCE G-003 FOR GENERAL NOTES

KEYNOTE LEGEND

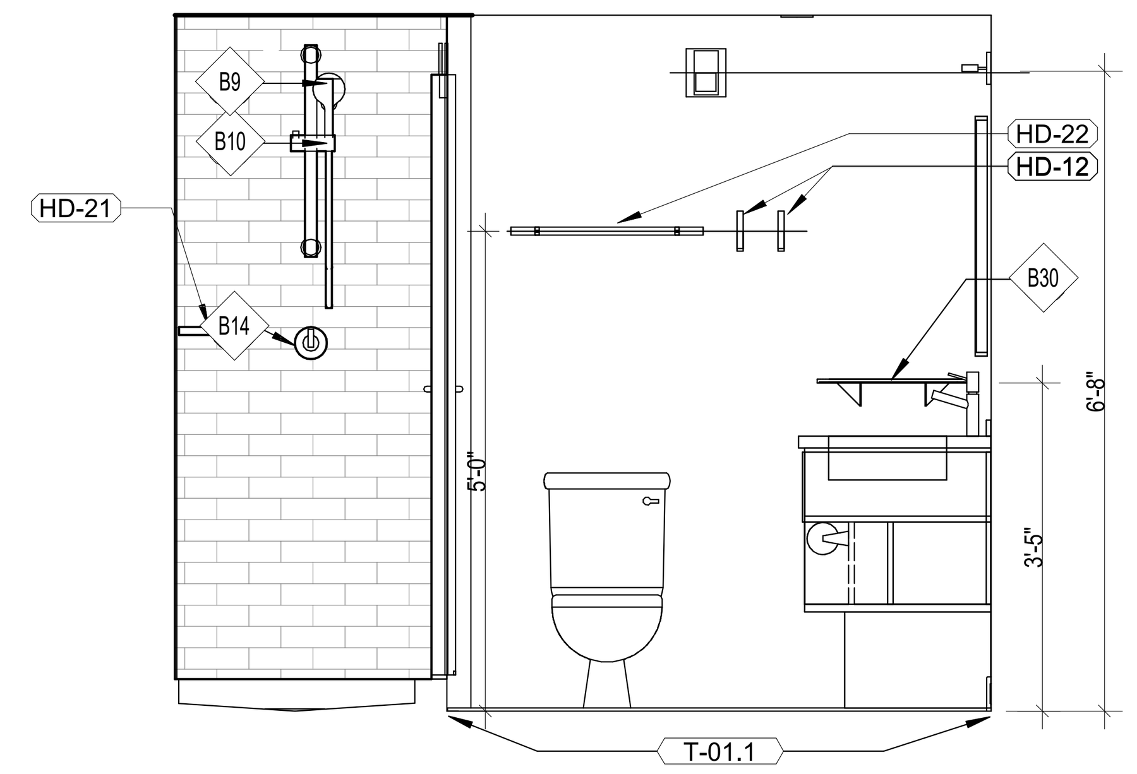
B9	SHOWER HEAD
B10	SHOWER DIVERTER VALVE
B12	VANITY MIRROR AND LIGHT FIXTURE
B13	GFCI OUTLET
B14	ON/OFF - PRESSURE BALANCING VALVE
B16	BULK AMENITY DISPENSER
B23	SHOWER SURROUND
B24	LED NIGHT LIGHT INTEGRATED WITH EITHER LIGHT SWITCH OR OUTLET
B28	BI-PASS SLIDING GLASS DOOR, BRUSHED ALUMINUM FINISH, CLEAR GLASS, WITH 24" BAR PULL HARDWARE
B30	VANITY SHELF
D9	SHOWER HEAD
D12	VANITY MIRROR AND LIGHT FIXTURE
D19	TOILET
D20	FLOOR DRAIN LOCATION - MAINTAIN ACCESSIBLE COMPLIANT SLOPES TO DRAIN
D22	FRAMING SUBCONTRACTOR TO PROVIDE 3/4" F.R.T. PLYWOOD BLOCKING TO RECEIVE ITEM INDICATED - EXTEND FULL LENGTH OF OBJECT
D23	SHOWER SURROUND
D27	DOOR STOP HARDWARE REQUIRED TO KEEP HARDWARE AT BACK OF DOOR FROM HITTING GLASS WHEN FULLY AJAR
D30	VANITY SHELF



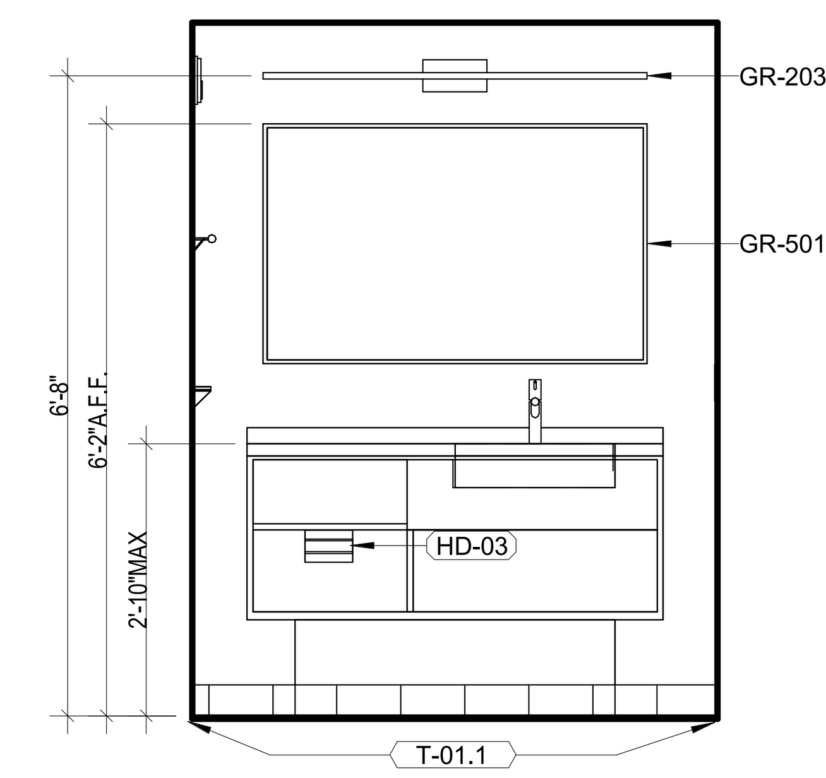
D3 BATHROOM - TYP. GUEST ELEV.
1/2" = 1'-0"



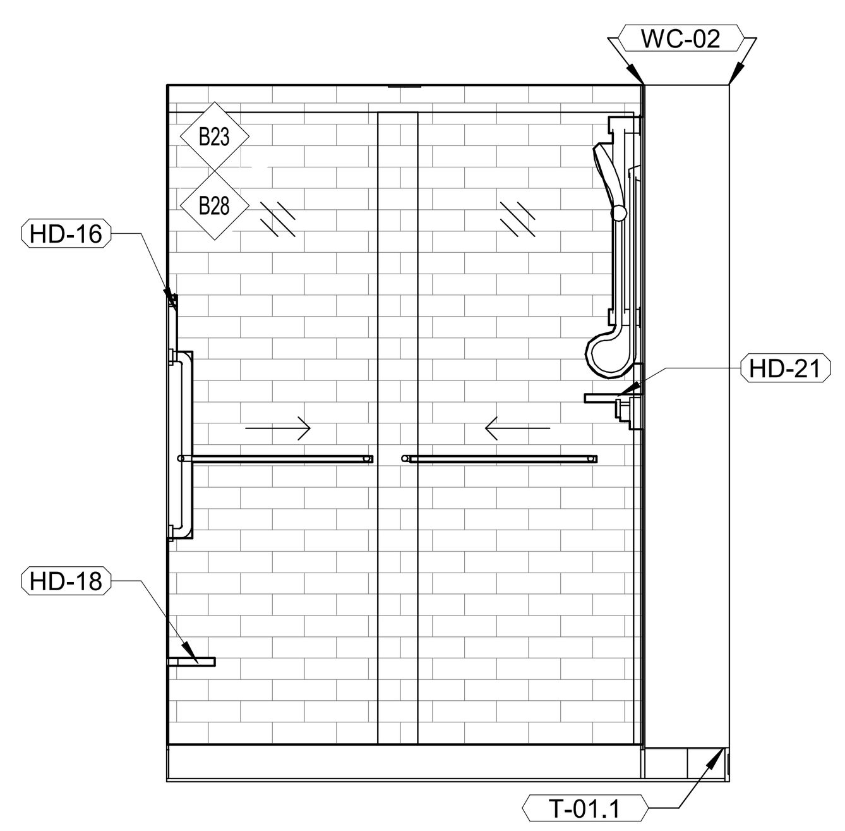
C3 BATHROOM - TYP. GUEST ELEV.
1/2" = 1'-0"



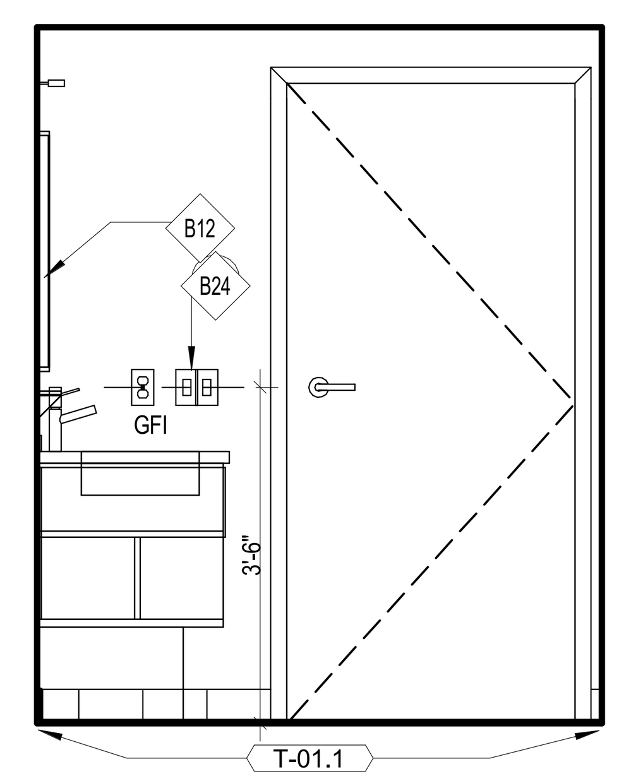
B3 BATHROOM - TYP. GUEST ELEV.
1/2" = 1'-0"



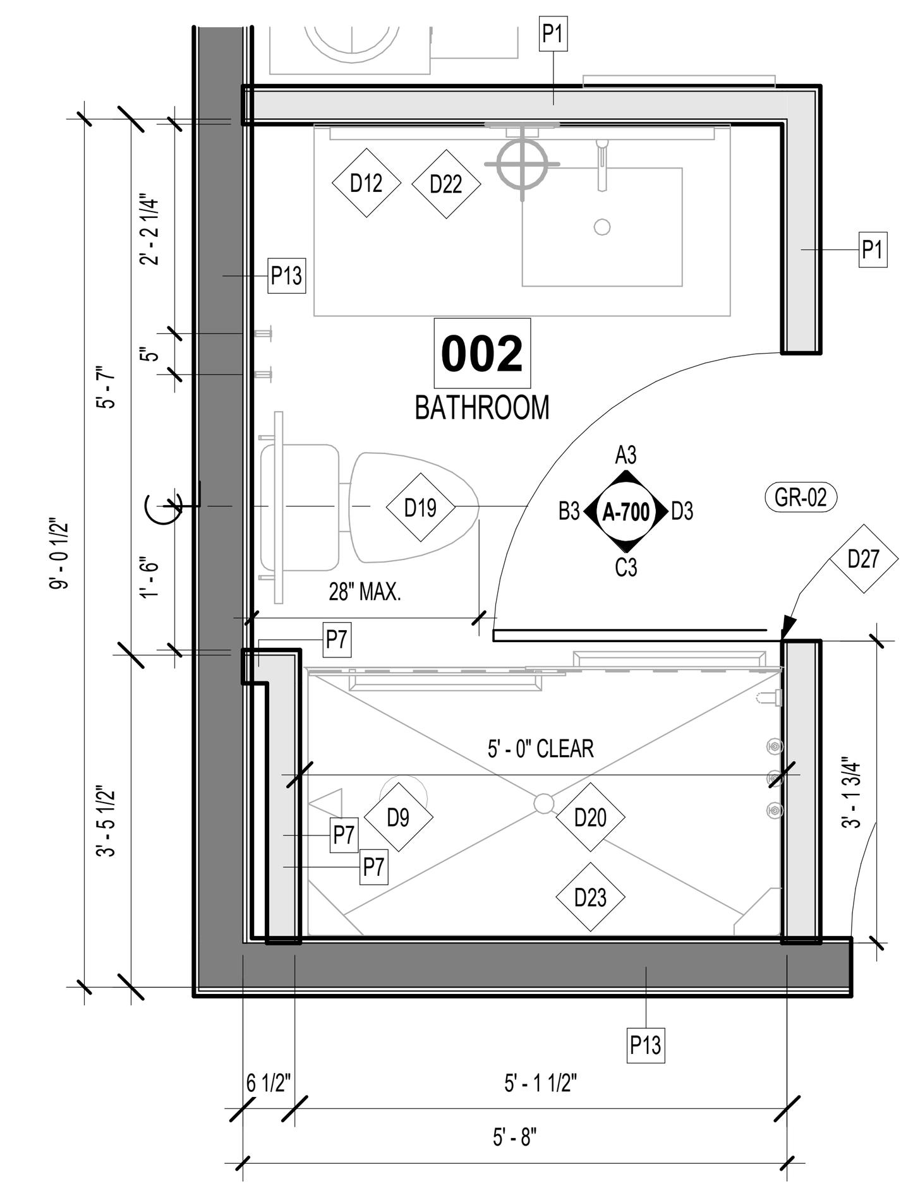
A3 BATHROOM - TYP. GUEST ELEV.
1/2" = 1'-0"



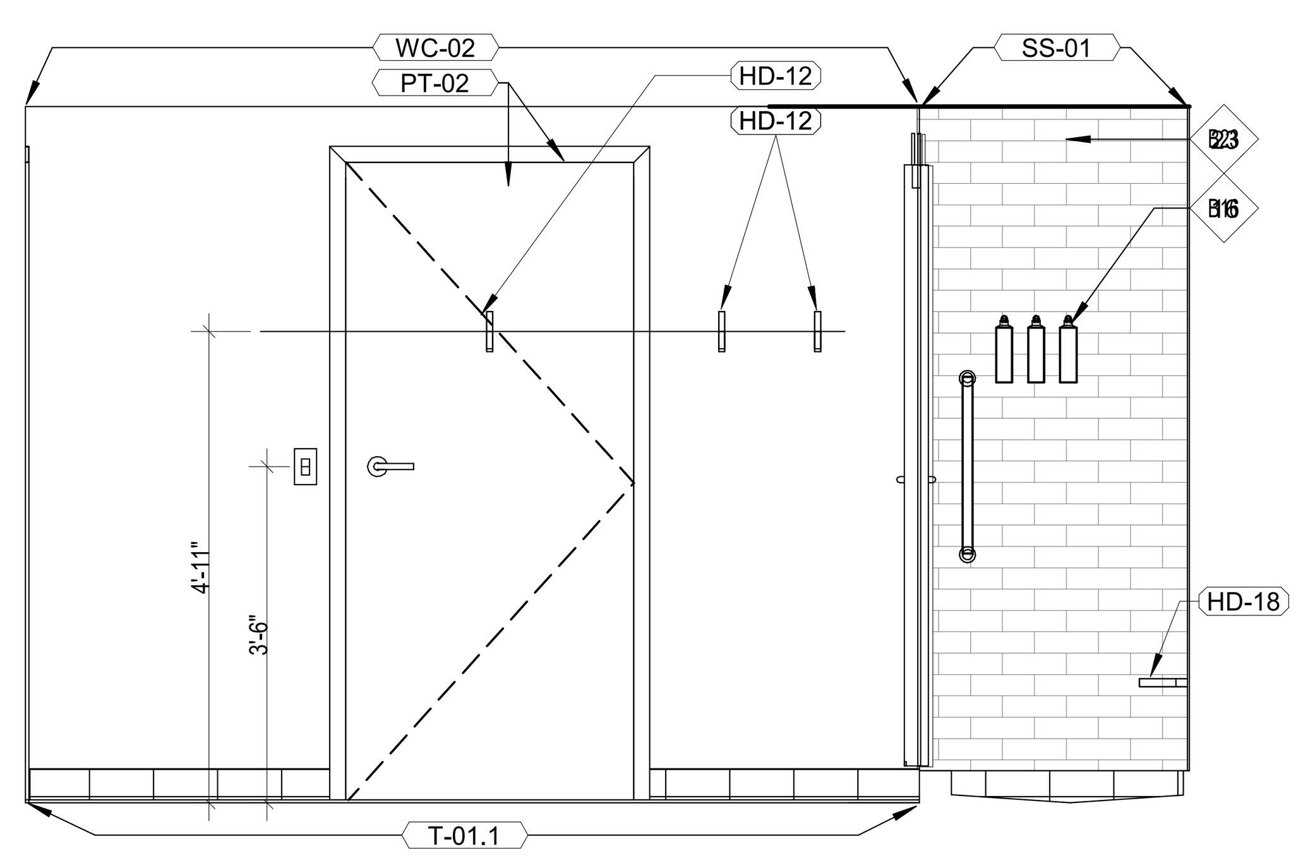
C2 BATHROOM - ONE BEDROOM ELEV.
1/2" = 1'-0"



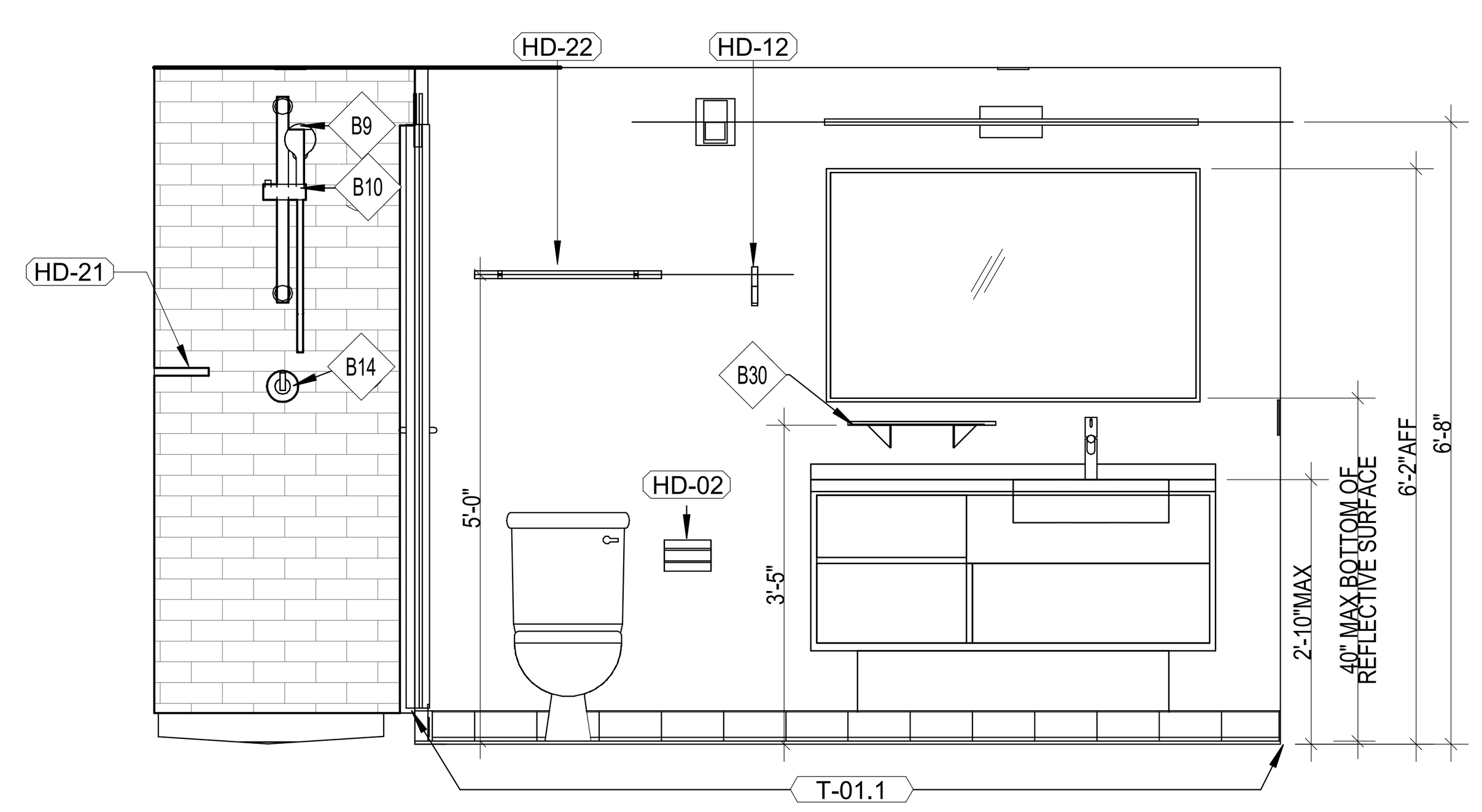
B2 BATHROOM - ONE BEDROOM ELEV.
1/2" = 1'-0"



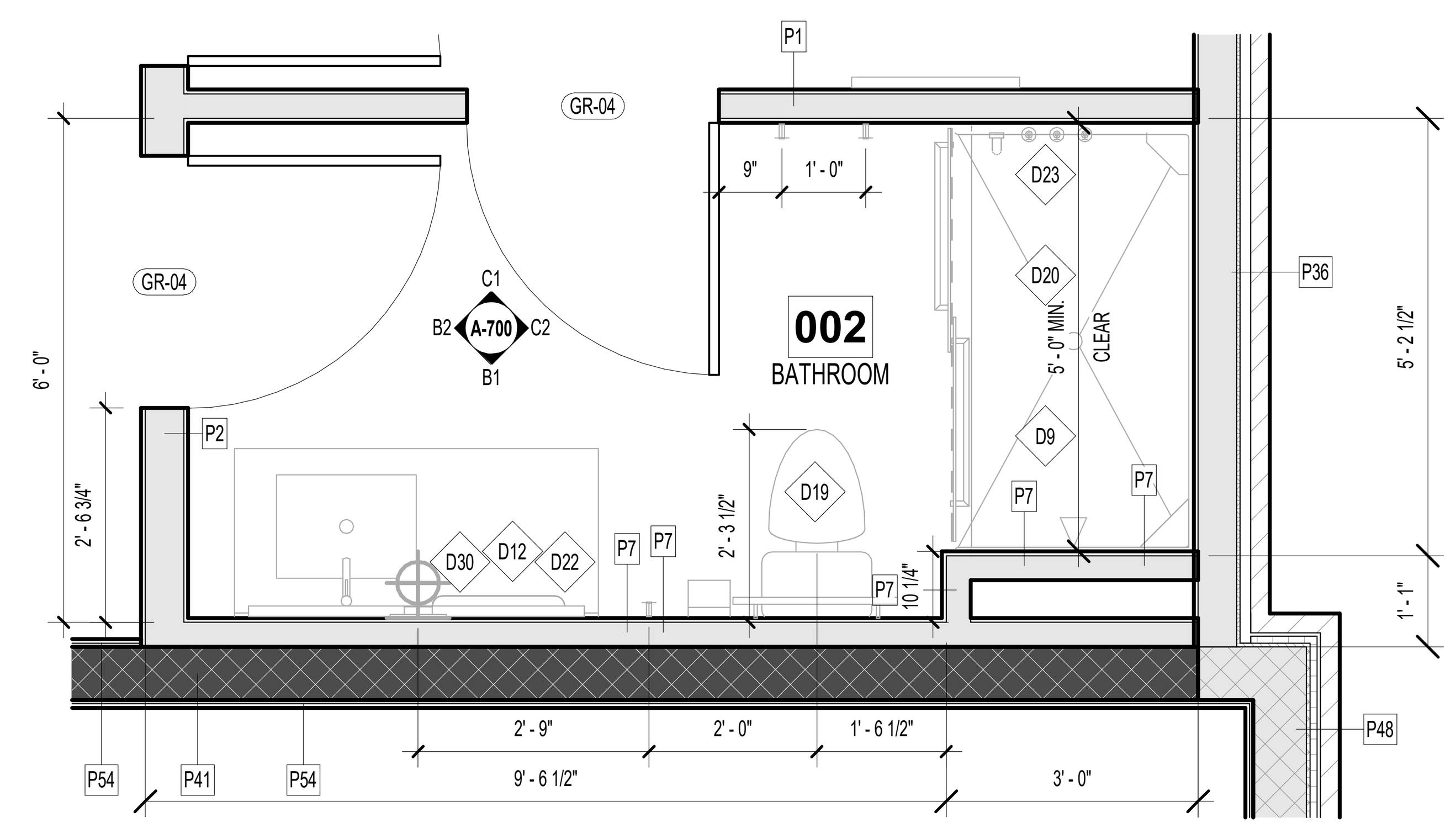
A2 TYP. STUDIO SUITE ENLARGED RESTROOM
1/2" = 1'-0"



C1 BATHROOM - ONE BEDROOM ELEV.
1/2" = 1'-0"



B1 BATHROOM - ONE BEDROOM ELEV.
1/2" = 1'-0"



A1 KING ONE BEDROOM ENLARGED RESTROOM
1/2" = 1'-0"

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04/17/2024

HOME2 SUITES BY HILTON

LEE'S SUMMIT, MO

SHEET TITLE
GUESTROOM BATHROOMS

PROJECT NUMBER: 22023

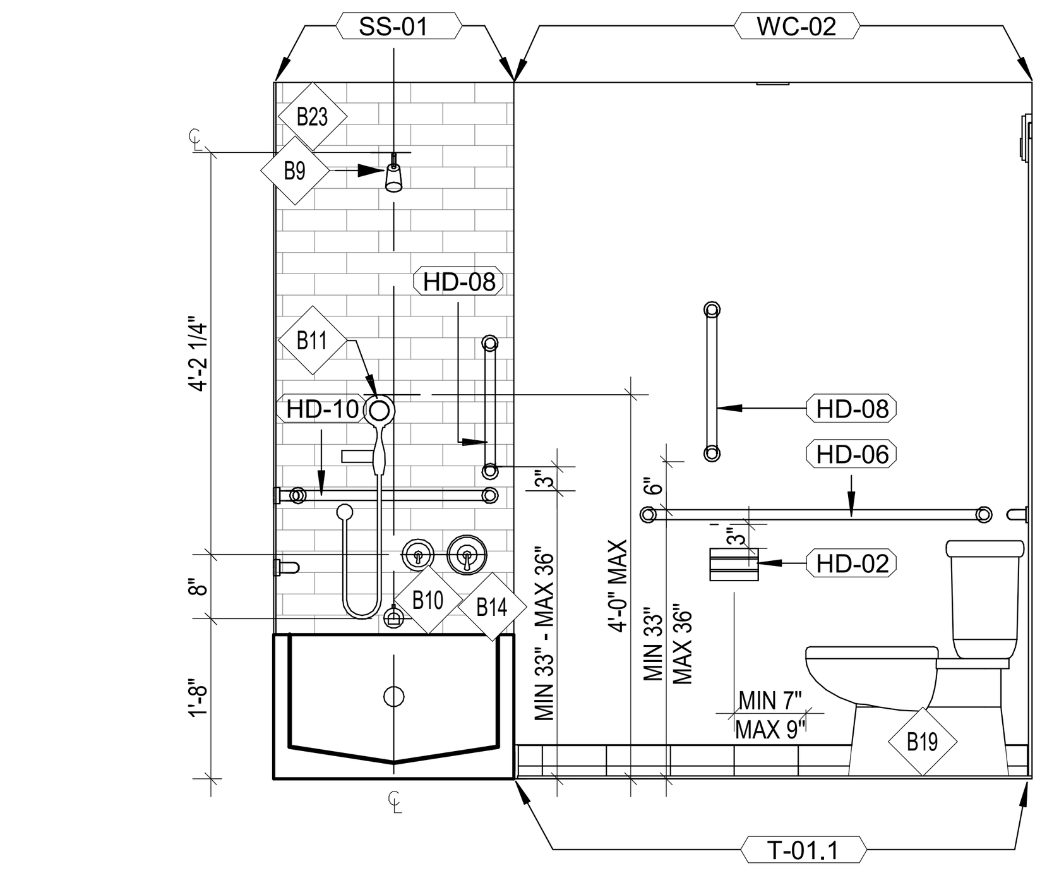
SHEET NUMBER:

A-700

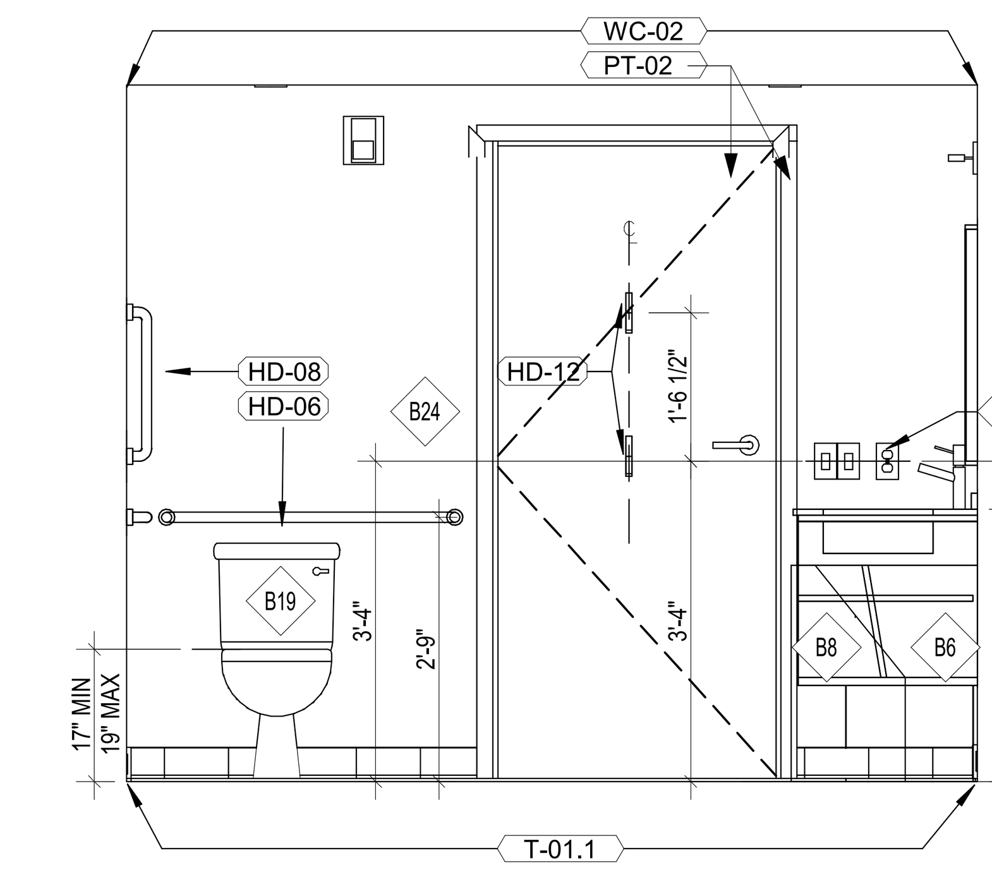
REFERENCE G-003 FOR GENERAL NOTES

KEYNOTE LEGEND

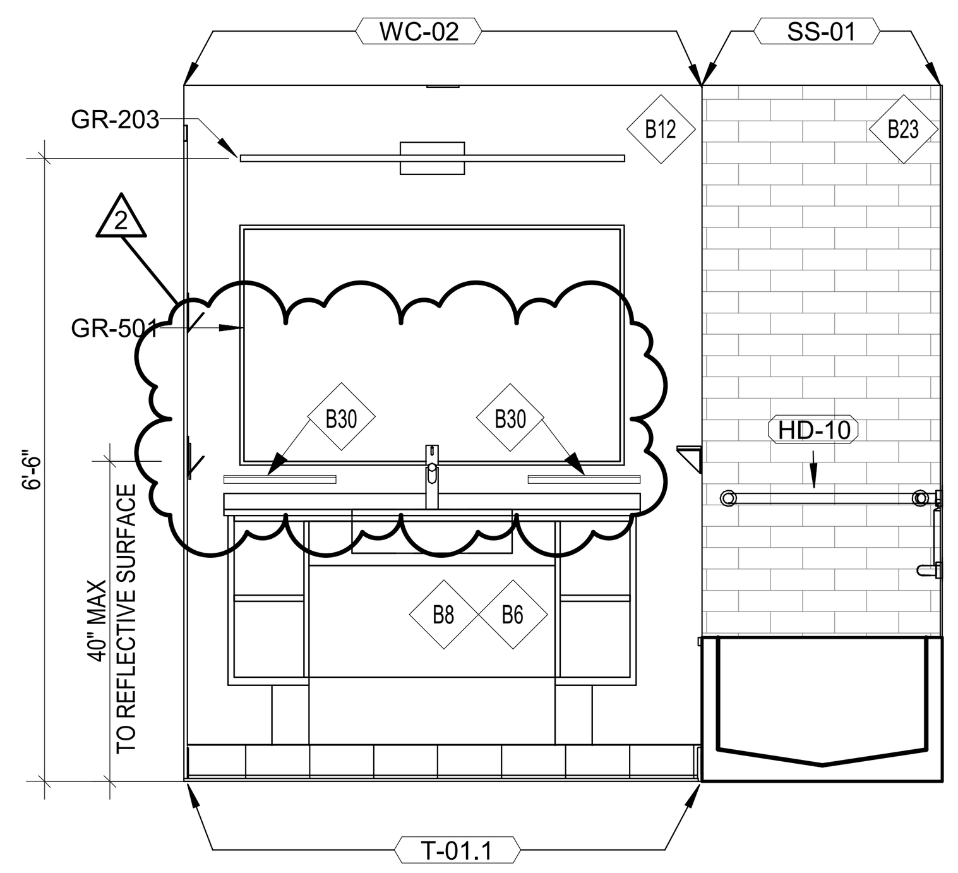
B6	ACCESSIBLE VANITY UNIT, REFER TO FURNITURE DWGS
B7	ACCESSIBLE REMOVABLE TUB/SHOWER SEAT. SHOWER SEAT IS WALL MOUNTED. REFER TO ACCESSIBILITY STANDARDS AND HADG FOR REQUIREMENT
B8	CLEAR AREA OF SINK/VANITY MUST BE ACCESSIBLE
B9	SHOWER HEAD
B10	SHOWER DIVERTER VALVE
B11	HAND SHOWER. HAND-HELD SHOWER UNIT REQUIRED TO HAVE ON/OFF CONTROL WITH NON-POSITIVE SHUT OFF.
B12	VANITY MIRROR AND LIGHT FIXTURE
B13	GFCI OUTLET
B14	ON/OFF - PRESSURE BALANCING VALVE
B19	TOILET
B23	SHOWER SURROUND
B24	LED NIGHT LIGHT INTEGRATED WITH EITHER LIGHT SWITCH OR OUTLET
B26	SOAP DISPENSERS
B28	BI-PASS SLIDING GLASS DOOR, BRUSHED ALUMINUM FINISH, CLEAR GLASS, WITH 24" BAR PULL HARDWARE



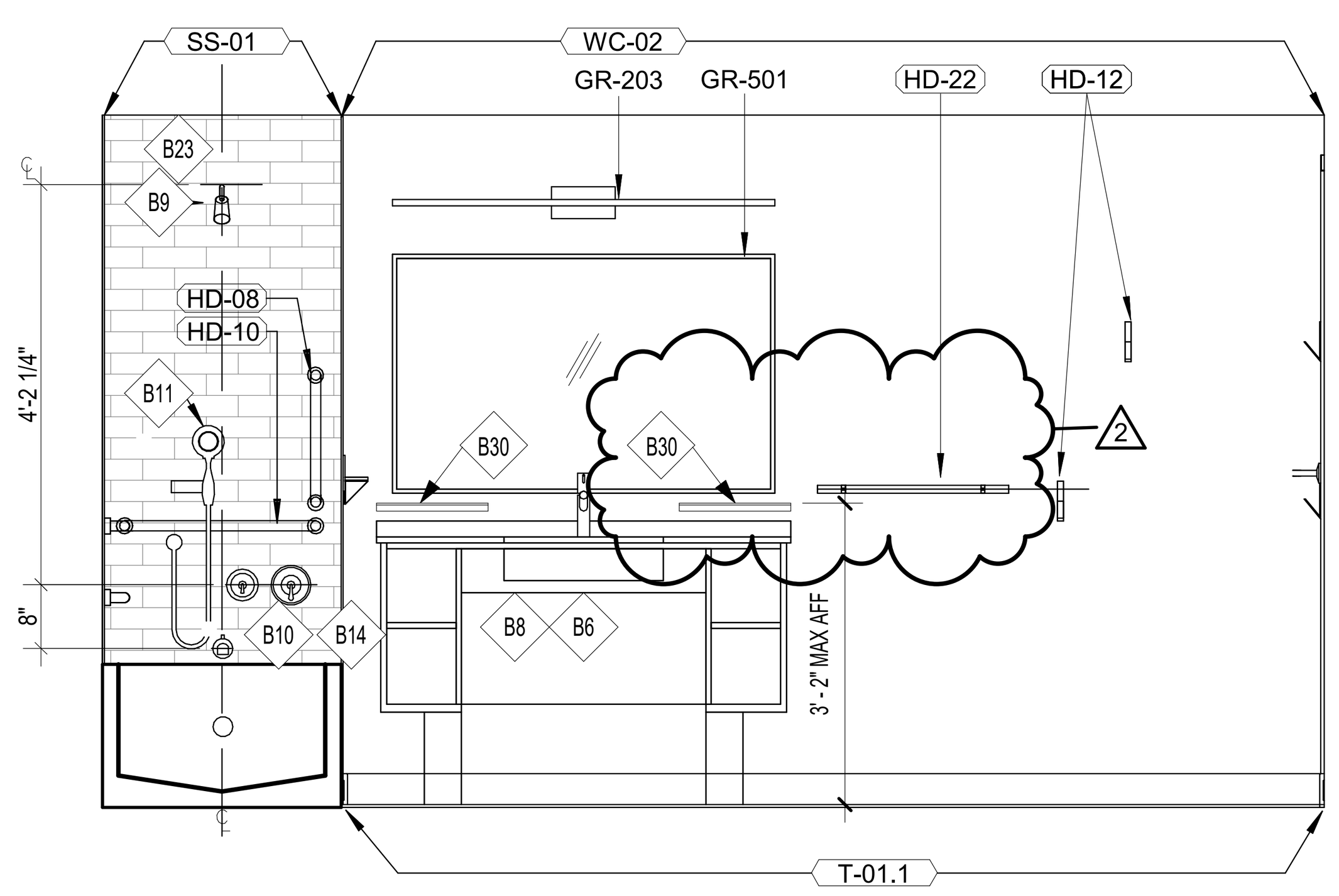
D3 BATHROOM - ACC. STUDIO ELEV.
1/2" = 1'-0"



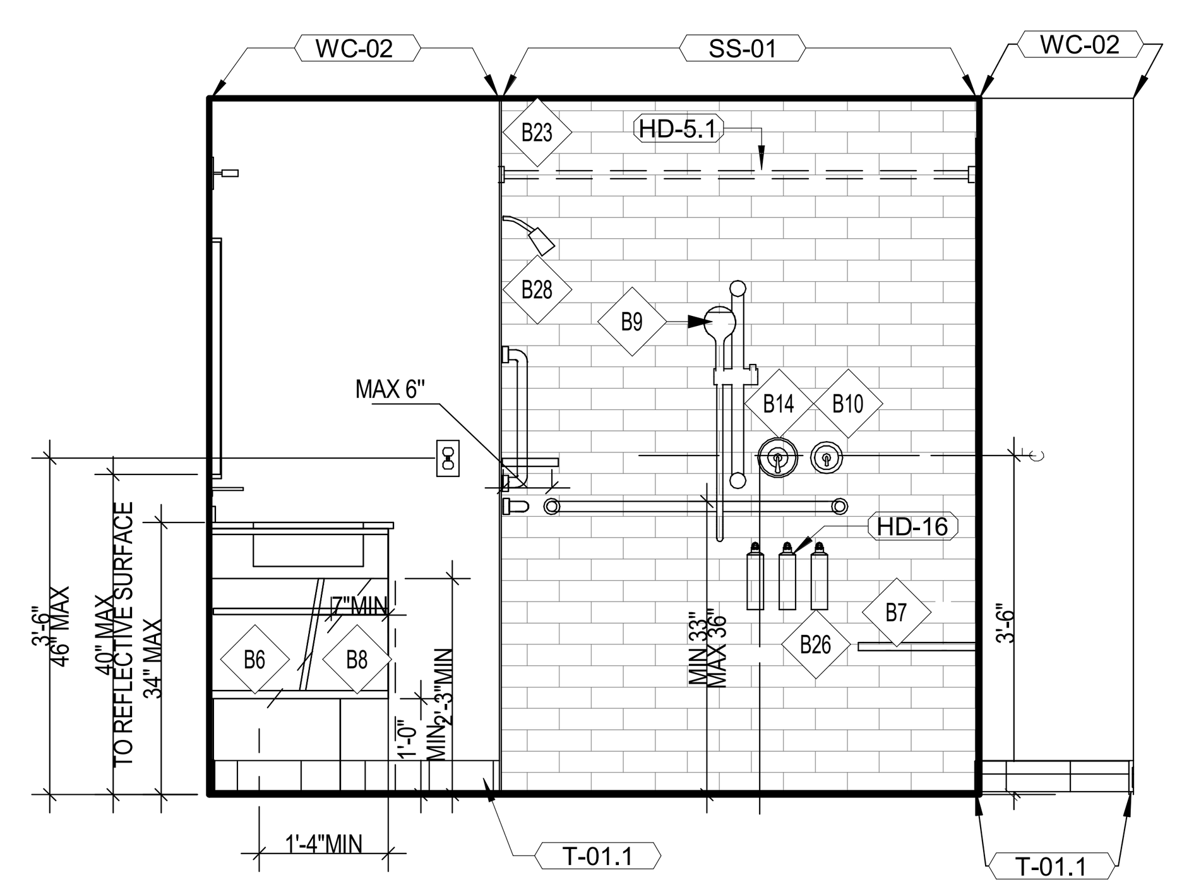
C3 BATHROOM - ACC. STUDIO ELEV.
1/2" = 1'-0"



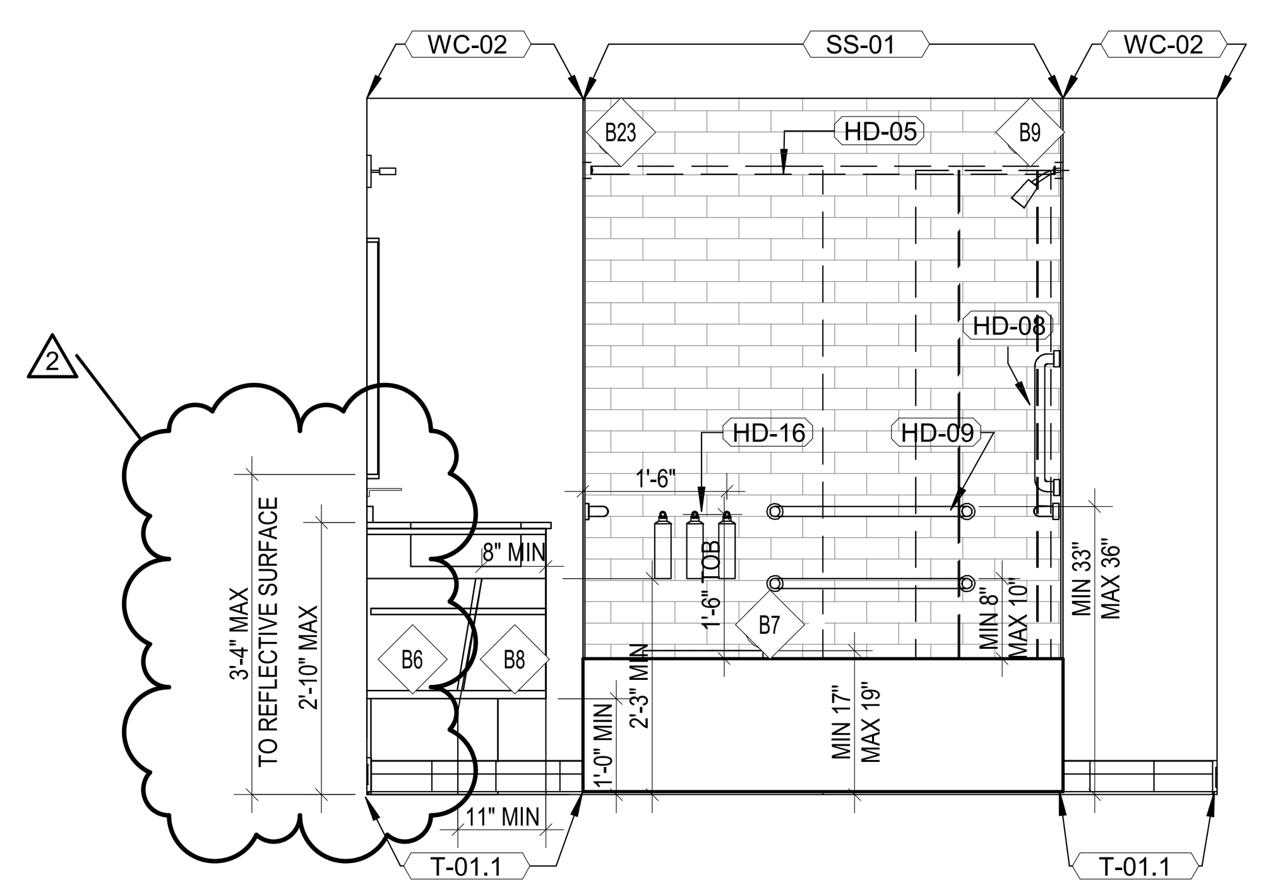
B3 BATHROOM - ACC. STUDIO ELEV.
1/2" = 1'-0"



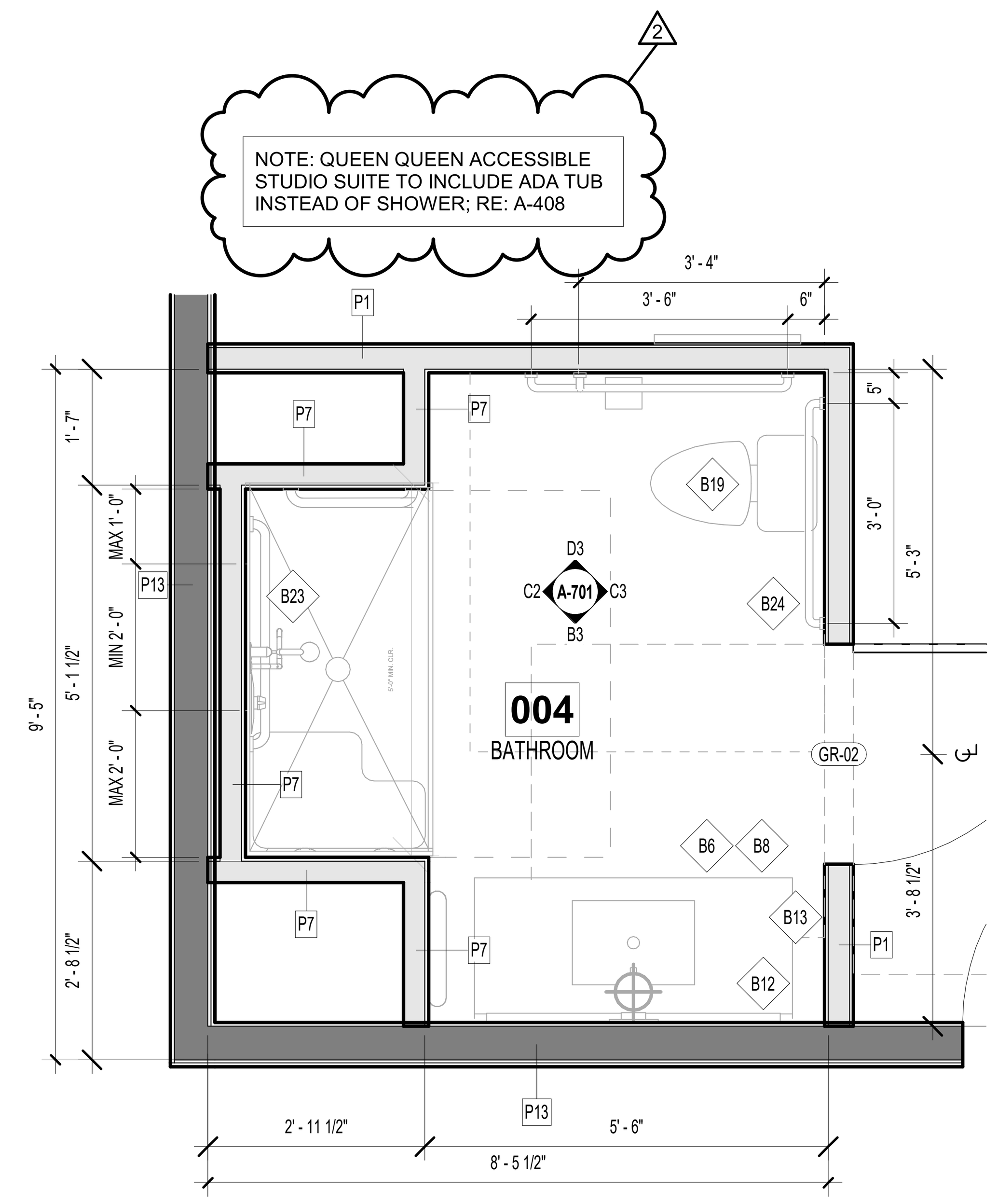
D2 BATHROOM - ACC. ONE BED ELEV.
1/2" = 1'-0"



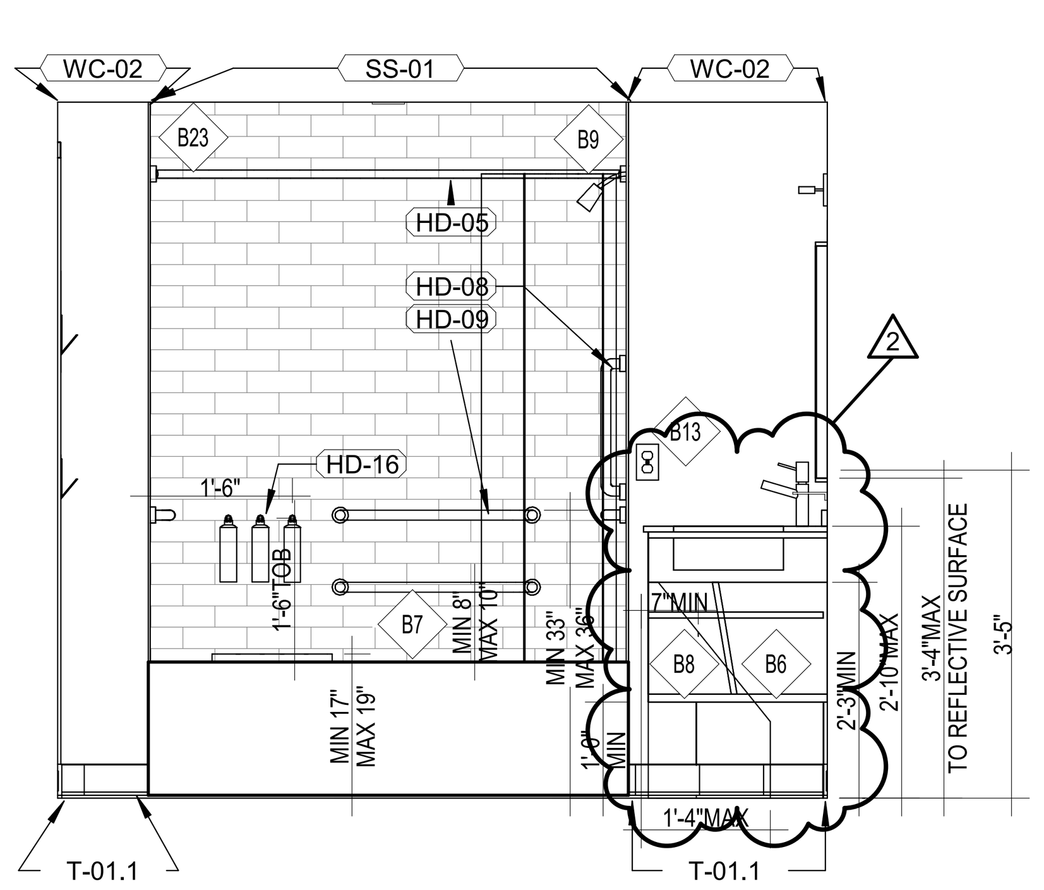
C2 BATHROOM - KING ACC. STUDIO ELEV.
1/2" = 1'-0"



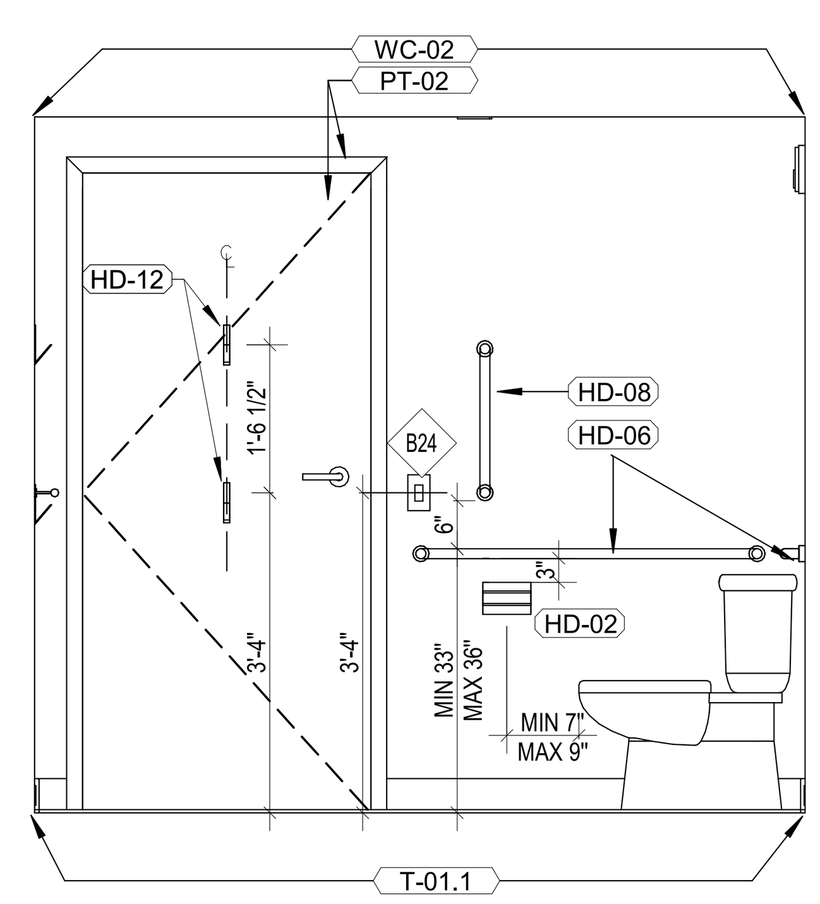
B2 BATHROOM - QQ ACC. STUDIO ELEV.
1/2" = 1'-0"



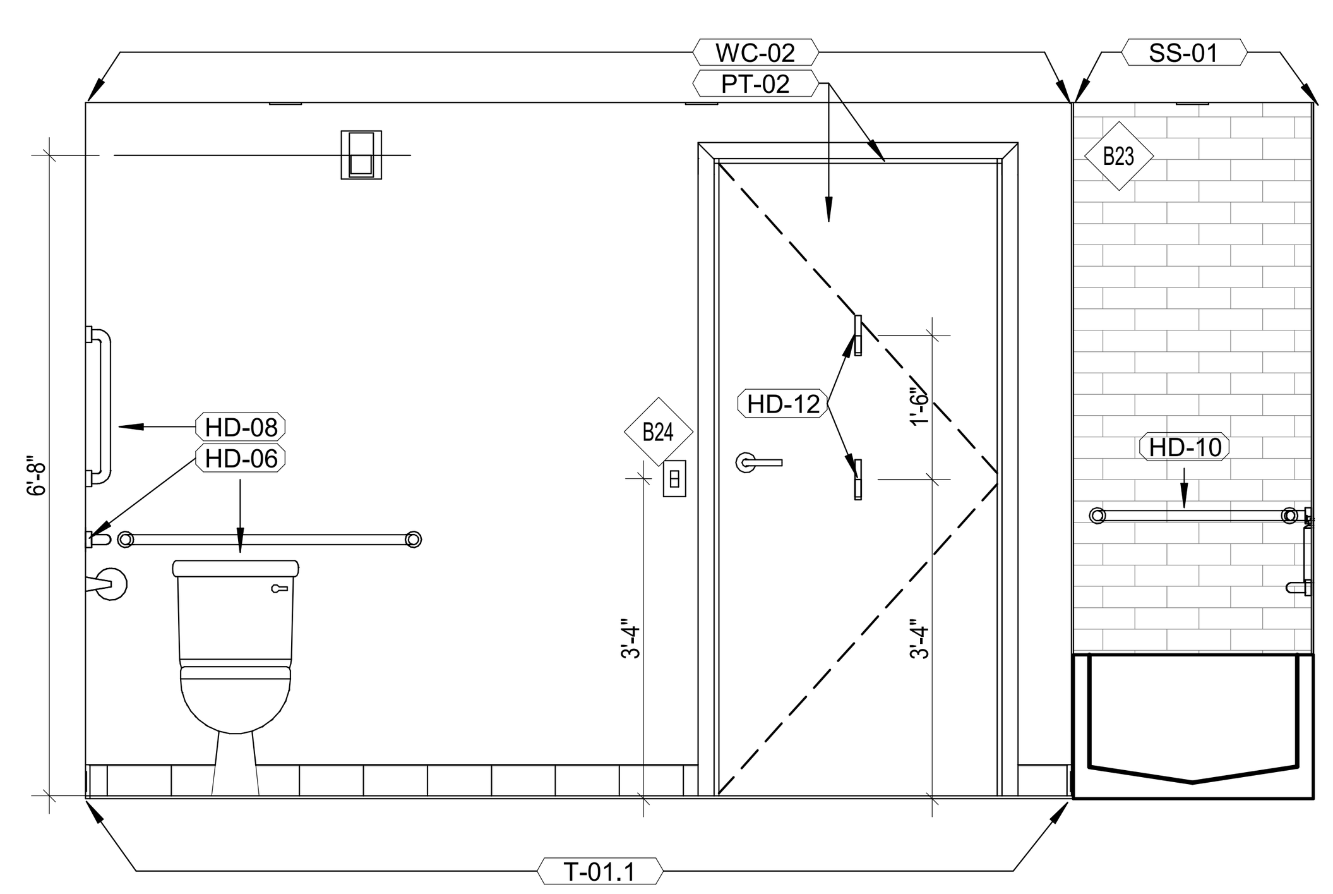
A2 TYP. STUDIO SUITE ENLARGED RESTROOM - ACCESSIBLE
1/2" = 1'-0"



D1 BATHROOM - ACC. ONE BED ELEV.
1/2" = 1'-0"

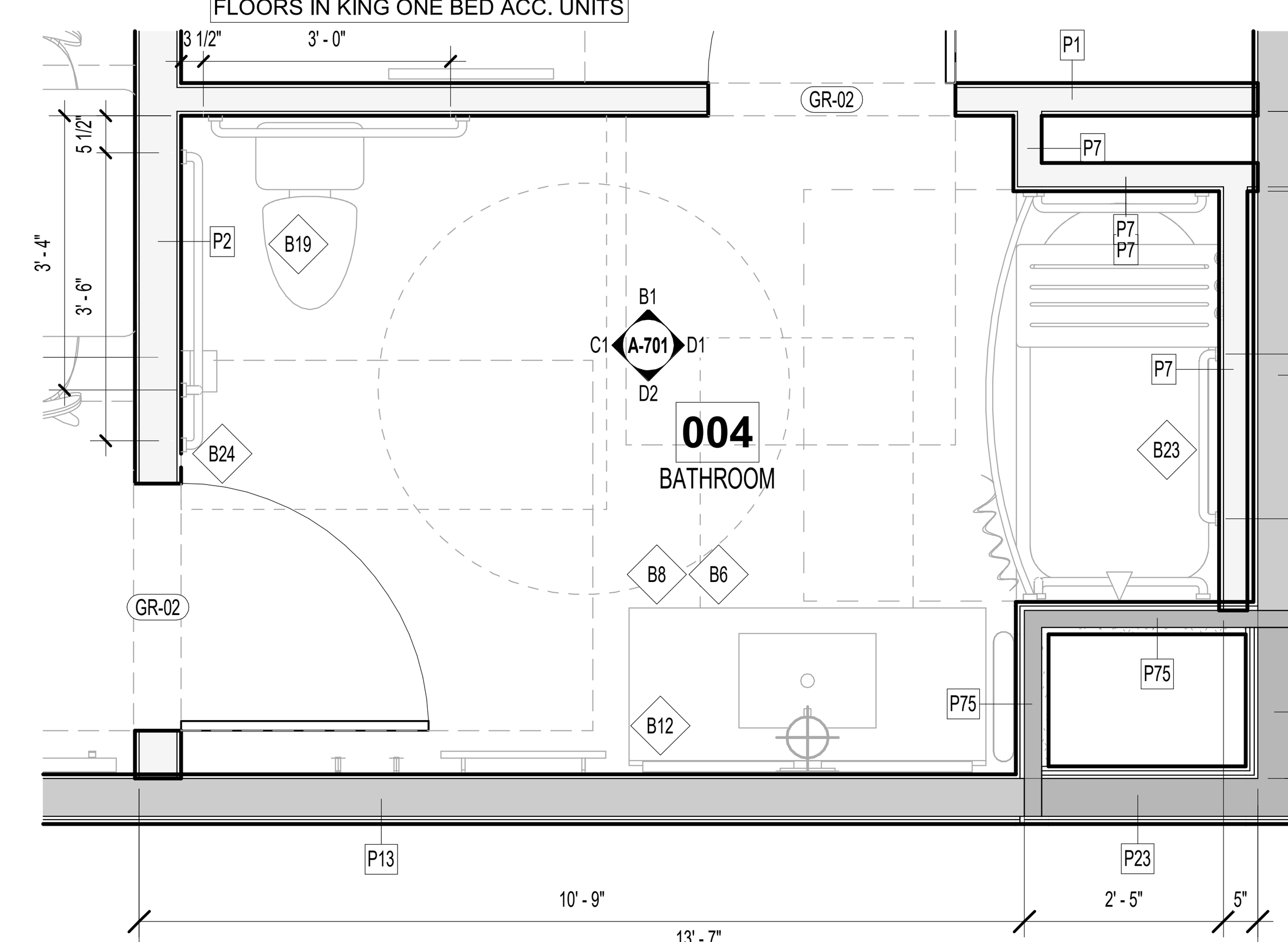


C1 BATHROOM - ACC. ONE BED ELEV.
1/2" = 1'-0"



B1 BATHROOM - ACC. ONE BED ELEV.
1/2" = 1'-0"

NOTE: SHOWERS ON THE GROUND FLOOR W/SLAB LEAVE-OUT, TUB/SHOWER COMBO ON UPPER FLOORS IN KING ONE BED ACC. UNITS



A1 KING ONE BEDROOM ENLARGED RESTROOM - ACCESSIBLE
1/2" = 1'-0"

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HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
GUESTROOM BATHROOMS

PROJECT NUMBER: 22023

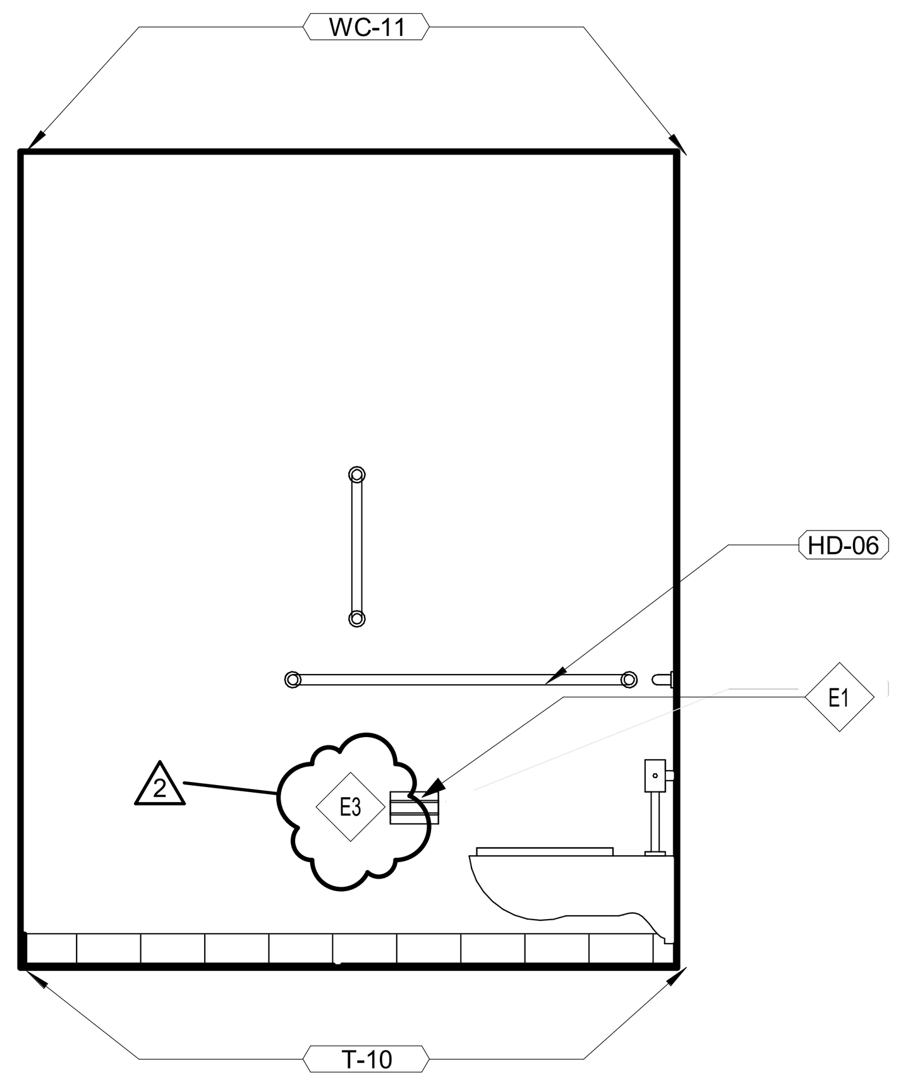
SHEET NUMBER:

A-701

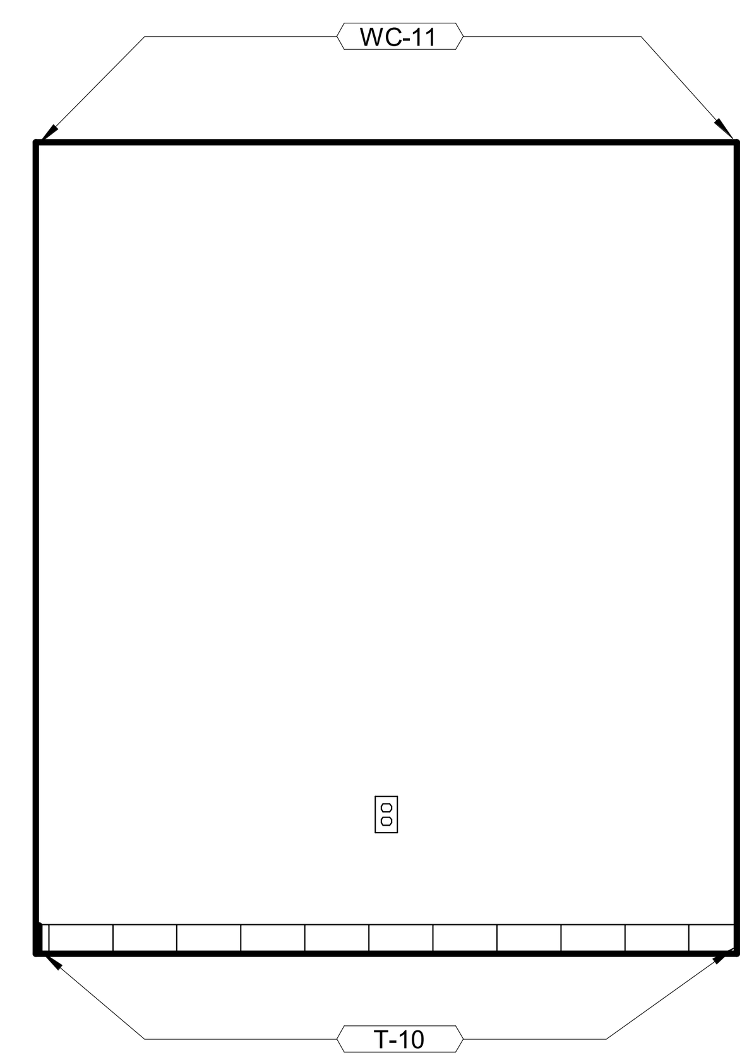
REFERENCE G-003 FOR GENERAL NOTES

KEYNOTE LEGEND

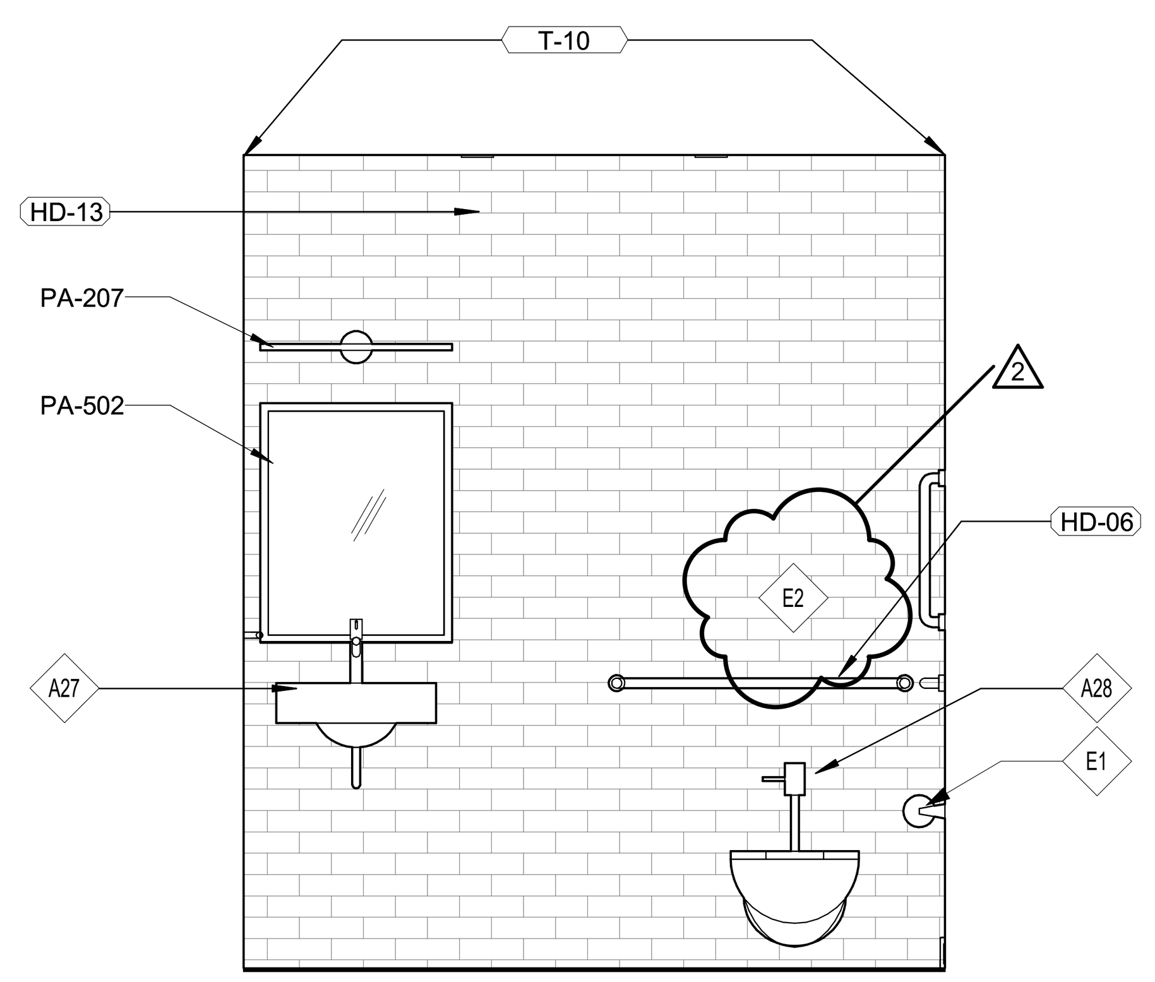
A8	SIGNAGE GRAPHIC, SEE INTERIOR SIGNAGE SPECIFICATION PACKAGE
A9	BRAND PROMISE SIGN
A14	ELEVATOR AND SURROUND - FINISH TO BE BRUSHED STAINLESS STEE
A19	FIRE EXTINGUISHER CABINET
A23	HOUSE PHONE
A27	AVOID BACKSPLASH ON WALL SINK TO ALLOW FOR MIRROR TO BE INSTALLED AT PROPER HEIGHT
A28	LEVER REQUIRED ON THE SIDE OF TANK OPPOSITE INSIDE CORNER OF WALL
A31	FIRE DOOR
E1	DOUBLE ROLL TOILET TISSUE HOLDER
E2	WALL-MOUNTED SANITARY SEAT COVER DISPENSER
E3	SANITARY NAPKIN DISPOSAL TRASH BIN (AT WOMEN'S AND UNISEX)
E4	FREESTANDING DECORATIVE TRASH RECEPTACLE
E5	DECORATIVE TOUCHLESS LIQUID SOAP DISPENSER
E6	DECORATIVE FACIAL TISSUE DISPENSER RECESSED IN WALL
E7	COAT HOOKS AT BACK OF THE DOOR
E8	MOTION-ACTIVATED PAPER TOWEL DISPENSER



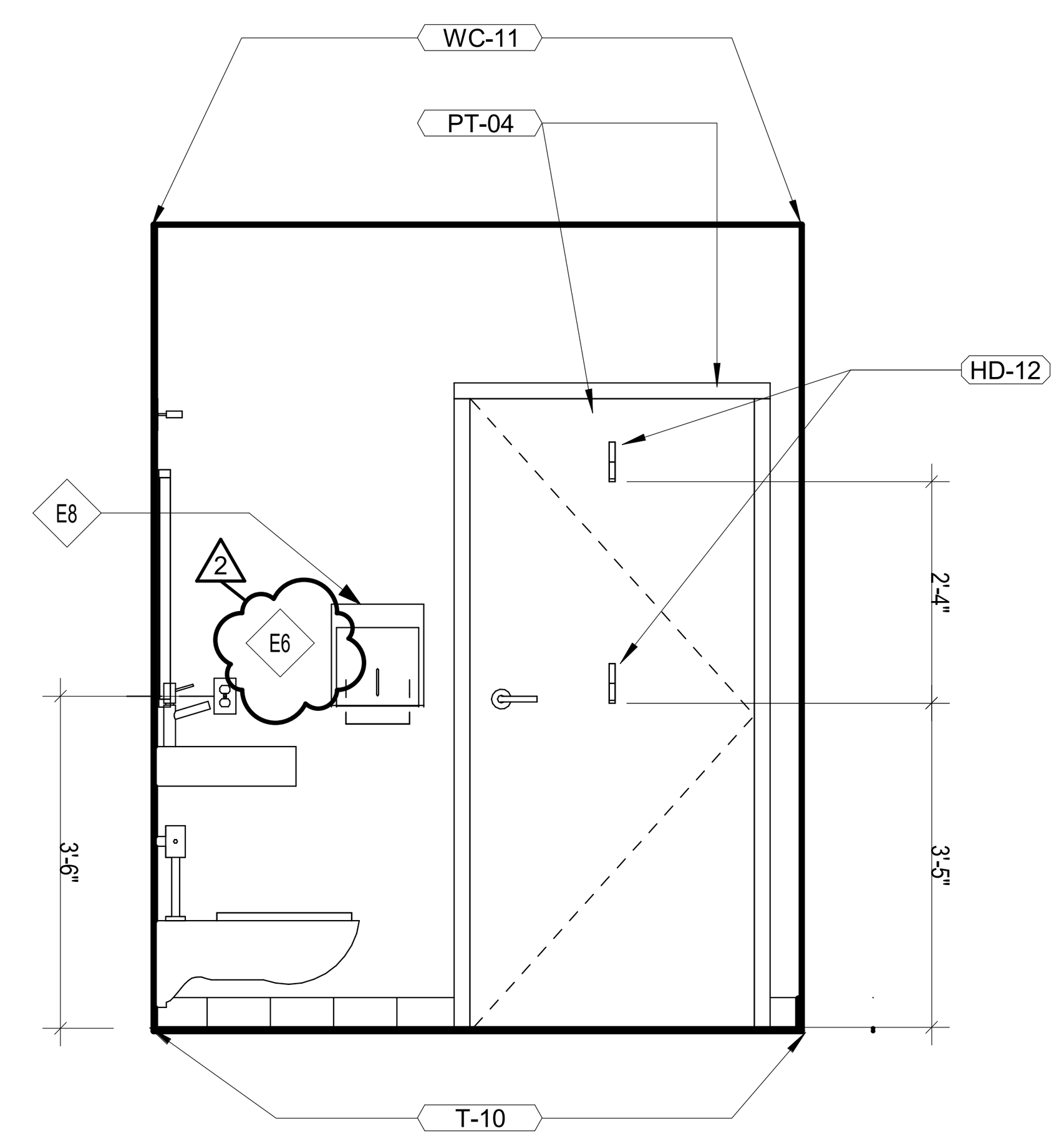
D3 PUBLIC RR ELEV.
1/2" = 1'-0"



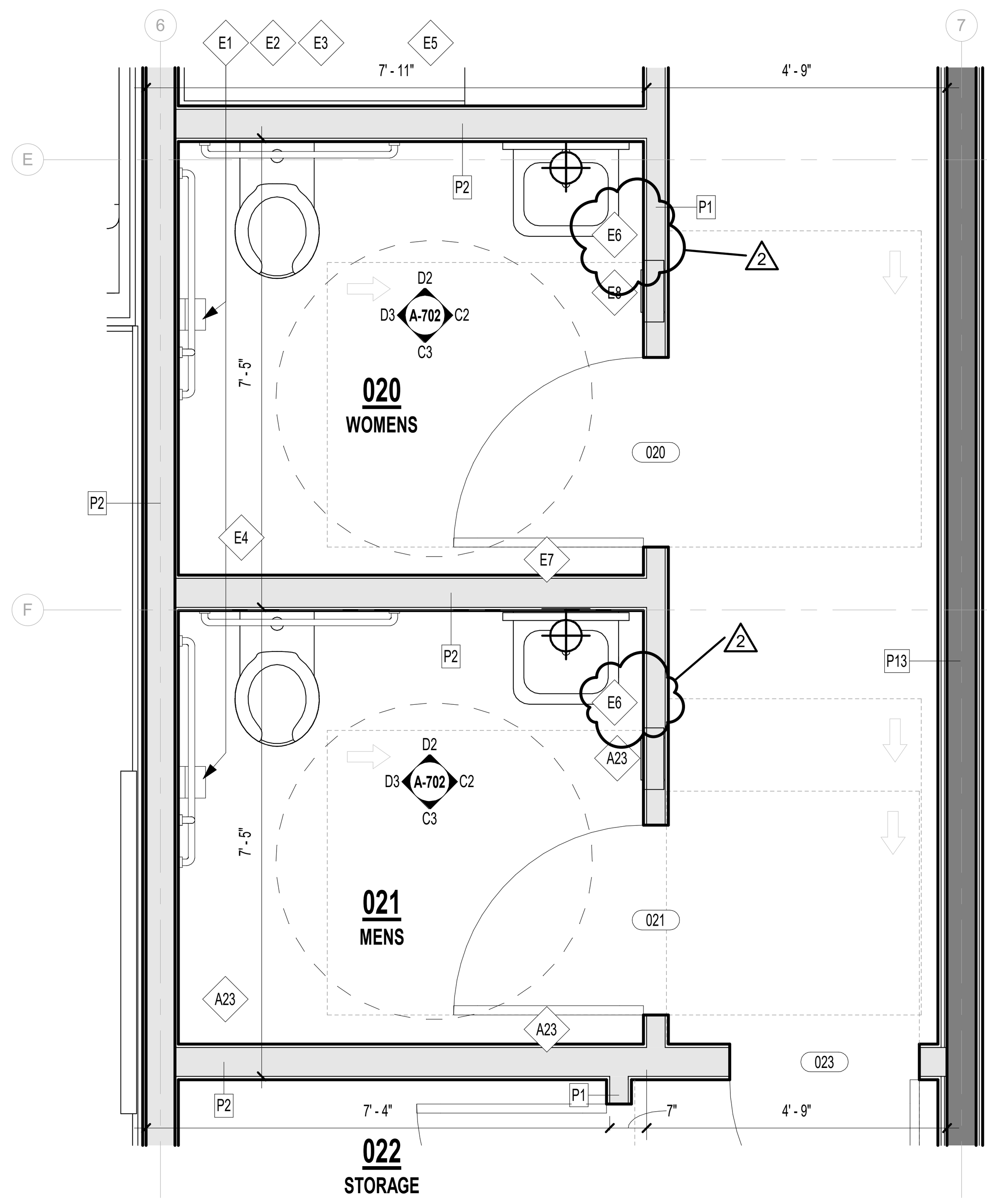
C3 PUBLIC RR ELEV.
1/2" = 1'-0"



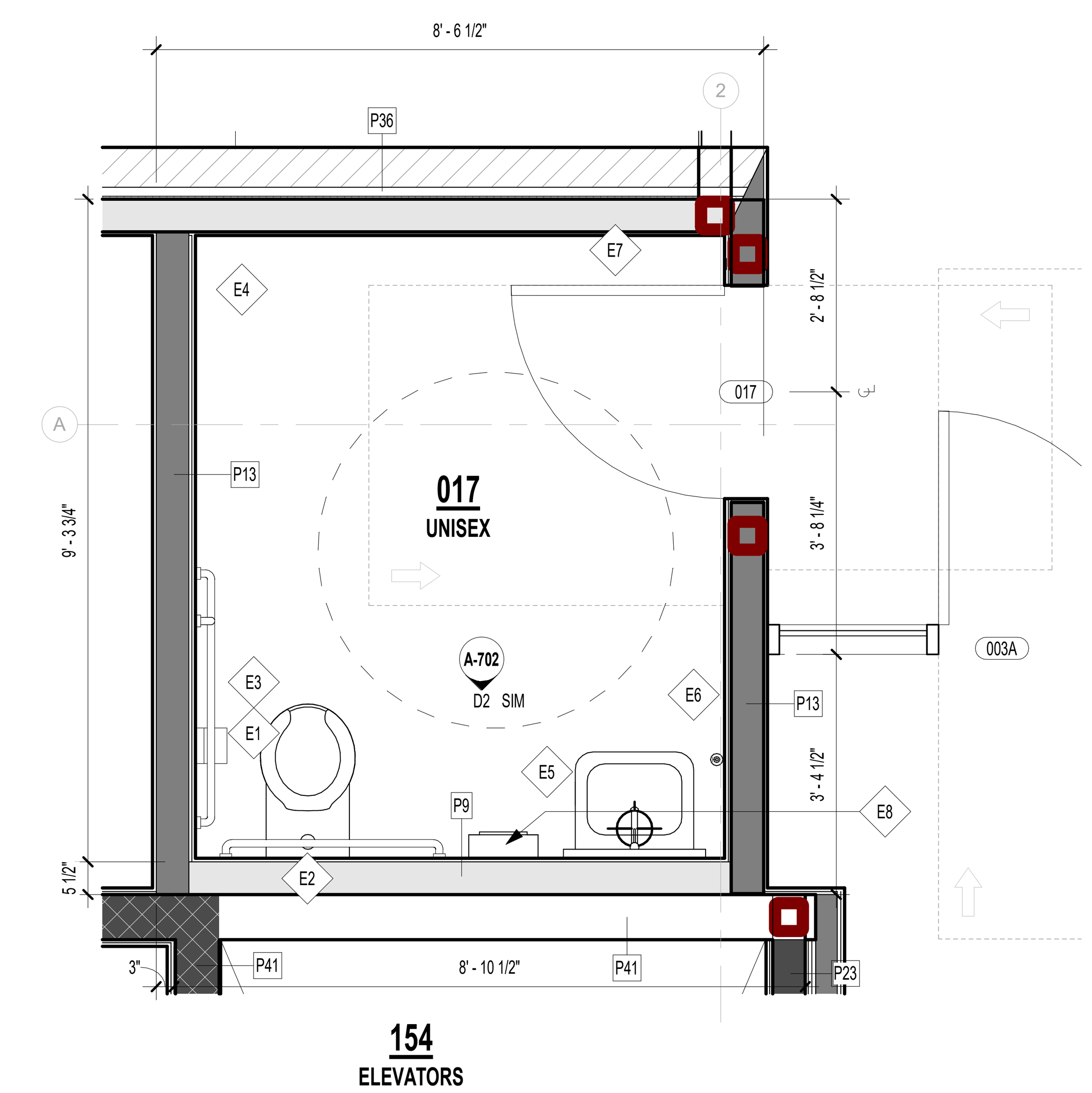
D2 PUBLIC RR ELEV.
1/2" = 1'-0"



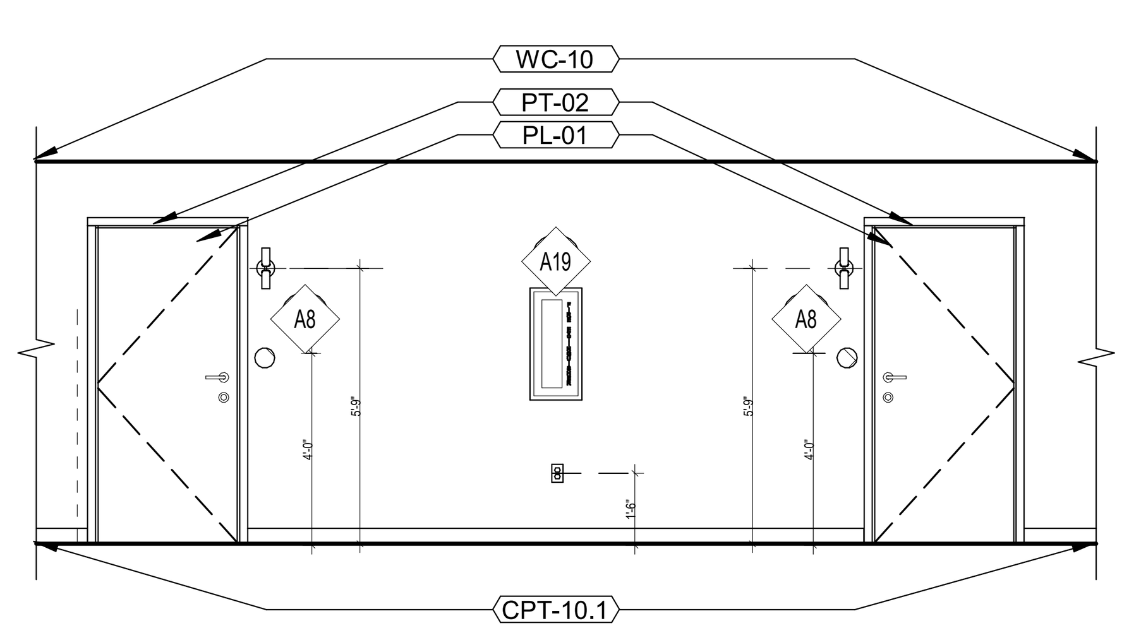
C2 PUBLIC RR ELEV.
1/2" = 1'-0"



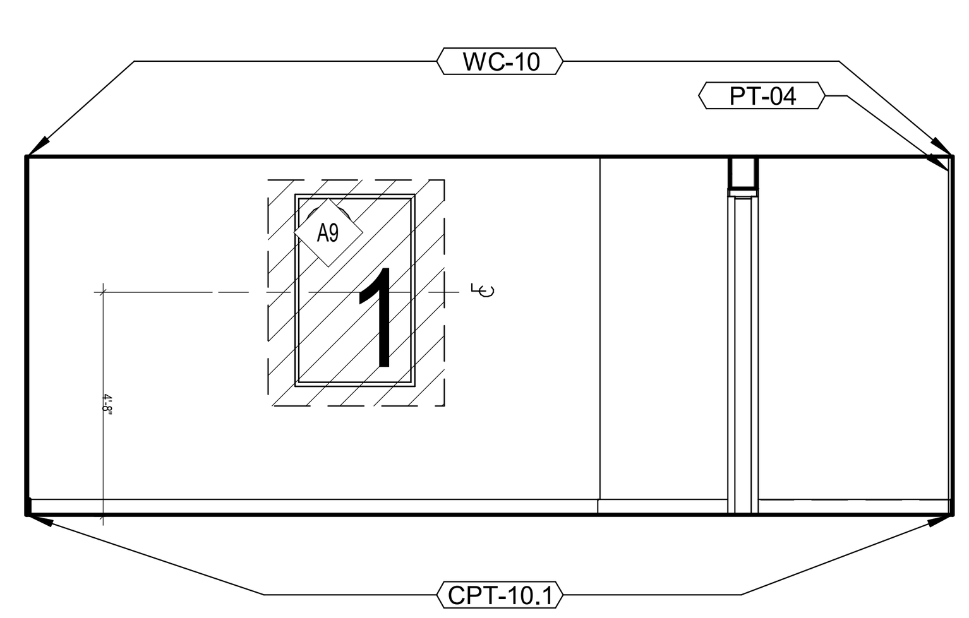
B2 PUBLIC RESTROOMS ENLARGED PLAN
1/2" = 1'-0"



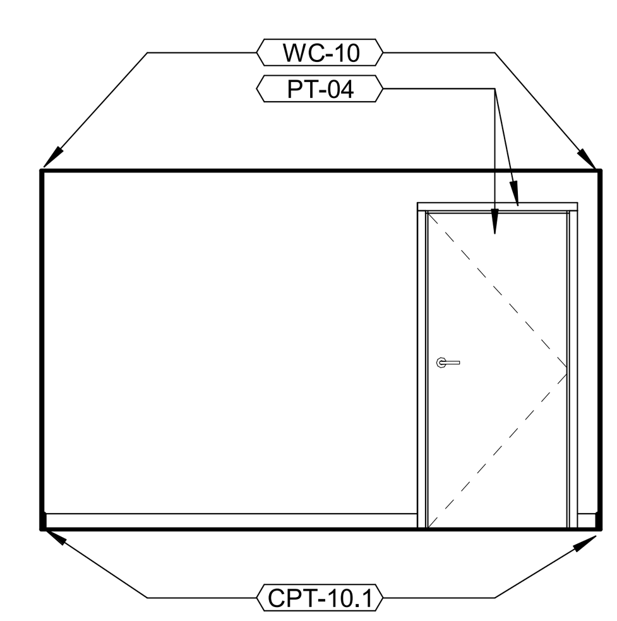
A2 POOL RESTROOMS ENLARGED PLAN
1/2" = 1'-0"



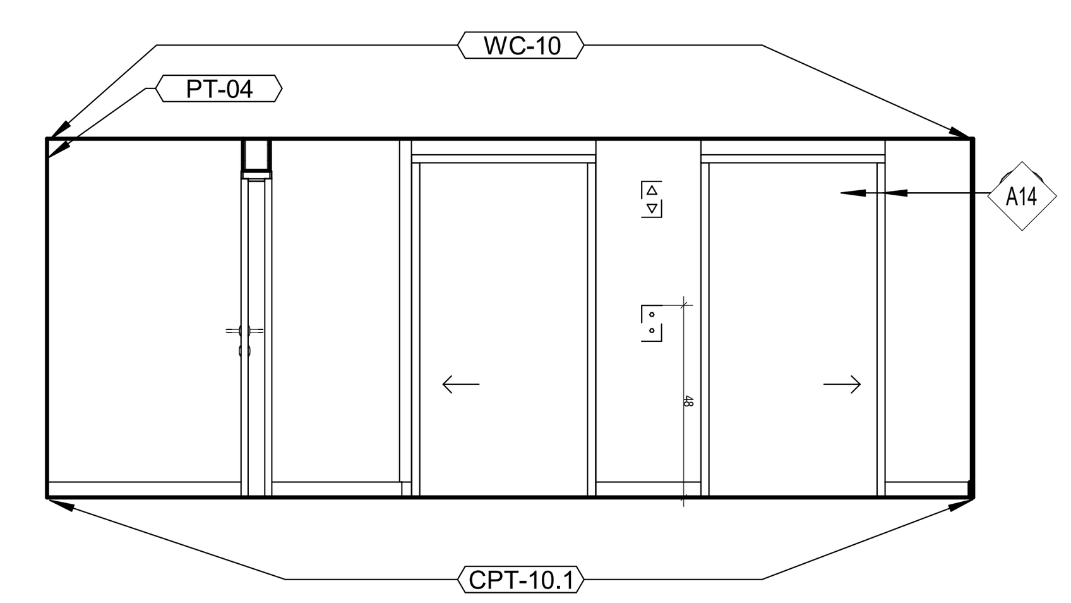
E1 GUEST CORRIDOR - TYP. ELEV.
1/4" = 1'-0"



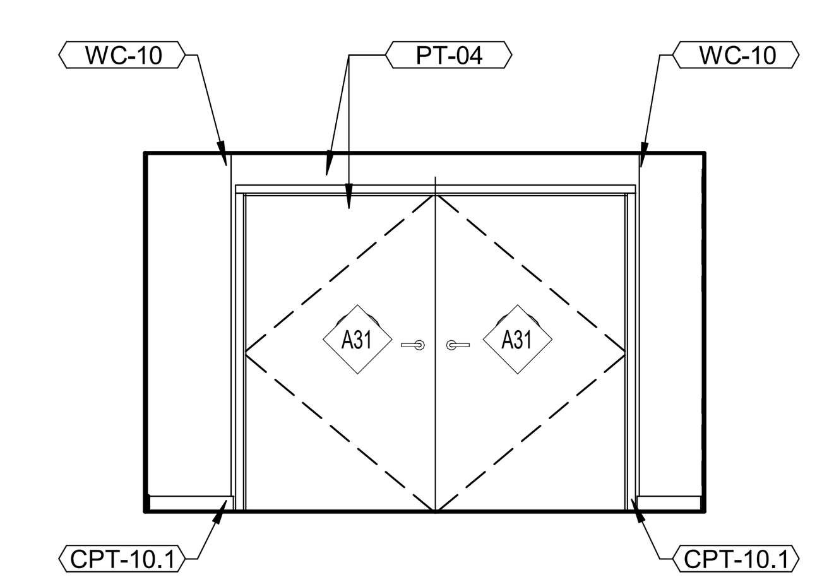
D1 GUEST ELEVATOR LOBBY
1/4" = 1'-0"



C1 GUEST ELEVATOR LOBBY
1/4" = 1'-0"



B1 GUEST ELEVATOR LOBBY
1/4" = 1'-0"



A1 GUEST ELEVATOR LOBBY
1/4" = 1'-0"

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HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
PUBLIC RESTROOMS

PROJECT NUMBER: 22023

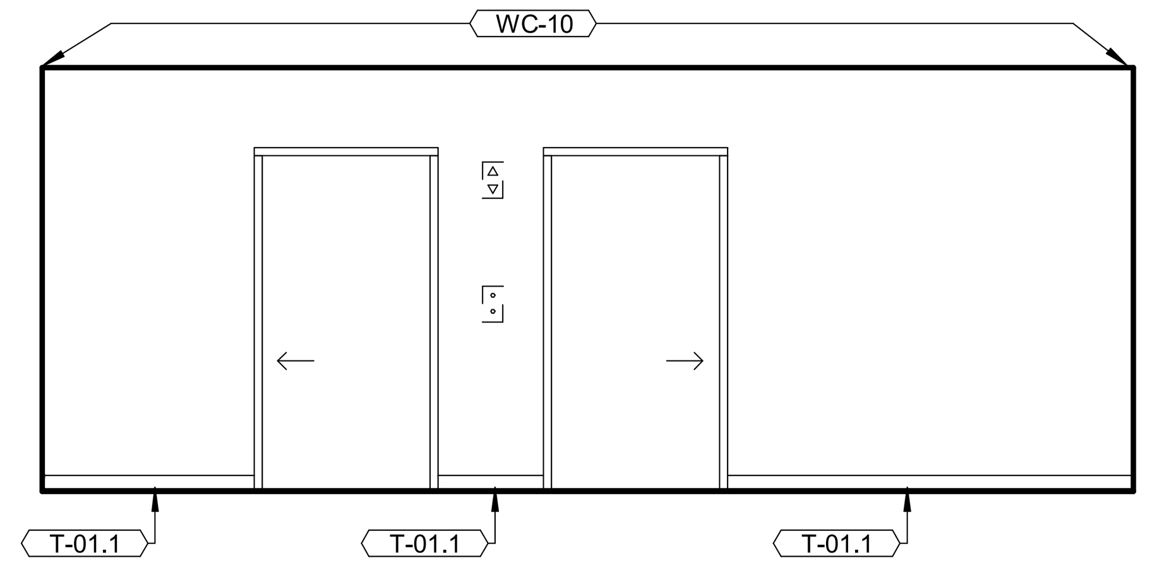
SHEET NUMBER:

A-702

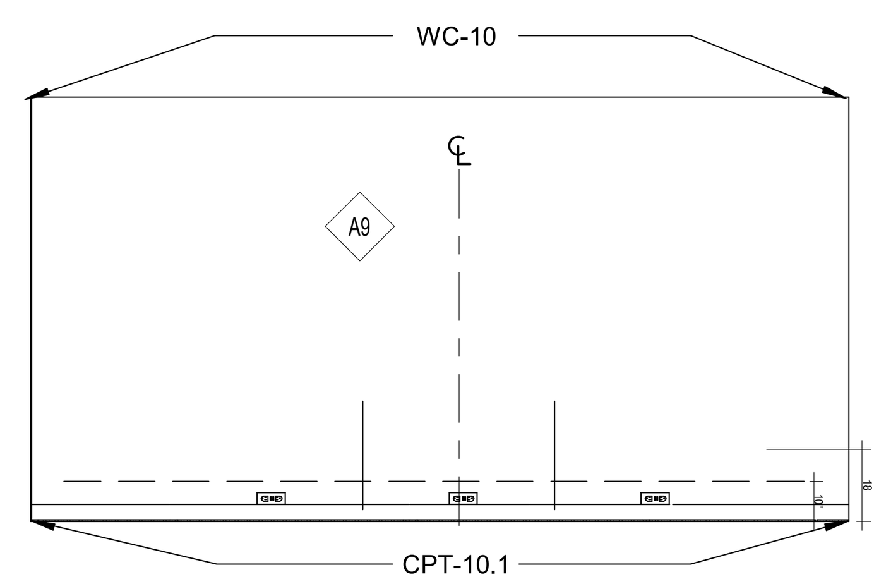
REFERENCE G-003 FOR GENERAL NOTES

KEYNOTE LEGEND

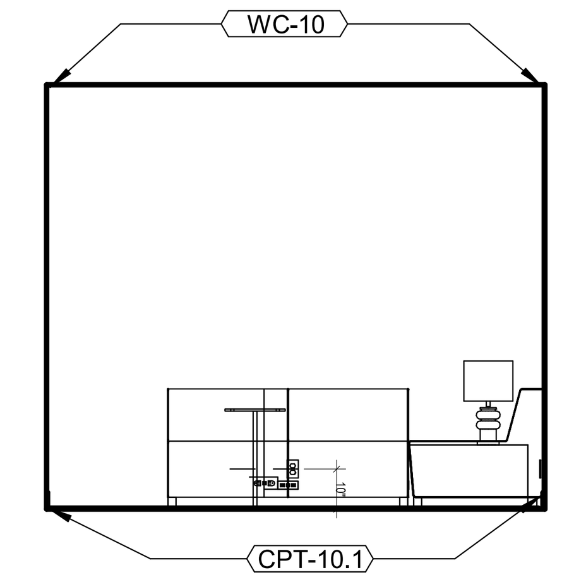
A1	GYPSUM BOARD SOFFIT FASCIA- REFER TO CEILING PLANS
A7	PREPARE & PRIME WALL - REFER TO HOME 2 INTERIOR SIGNAGE SPECIFICATION FOR GRAPHIC INSTALLATION
A8	SIGNAGE GRAPHIC, SEE INTERIOR SIGNAGE SPECIFICATION PACKAGE
A9	BRAND PROMISE SIGN
A11	BOOTH, SEE FF&E SPECIFICATIONS
A12	ADJUSTABLE MARKET DISPLAY SHELVING
A15	STOREFRONT DOORS AND FRAMES TO MATCH EXTERIOR COLOR AND FINISH
A17	WALL MOUNTED TELEVISION, COORDINATE BLOCKING AND POWER LOCATION WITH TV MOUNT
A23	HOUSE PHONE
A24	MARKET EQUIPMENT, SEE FOOD SERVICE DRAWINGS
A25	VISION WINDOW
A29	HYDRATION STATION
A34	COMPLIMENTARY COFFEE, TEA, & WATER STATION
A35	COMPLIMENTARY PRINT STATION



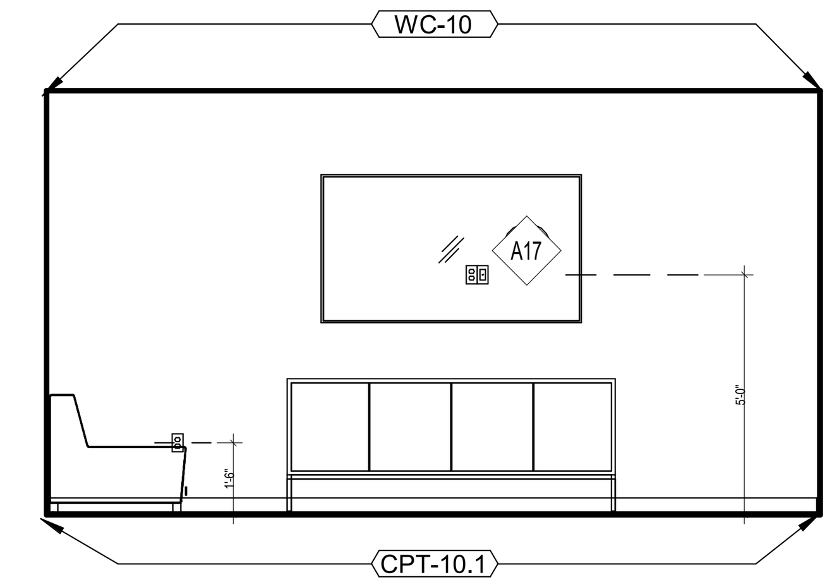
D4 ELEVATOR LOBBY - ELEV.
1/4" = 1'-0"



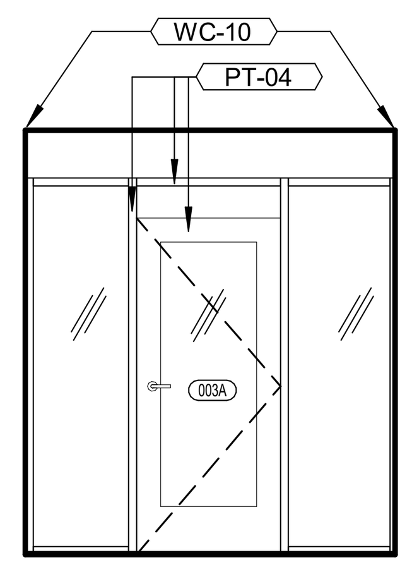
C4 TV LOUNGE - ELEV.
1/4" = 1'-0"



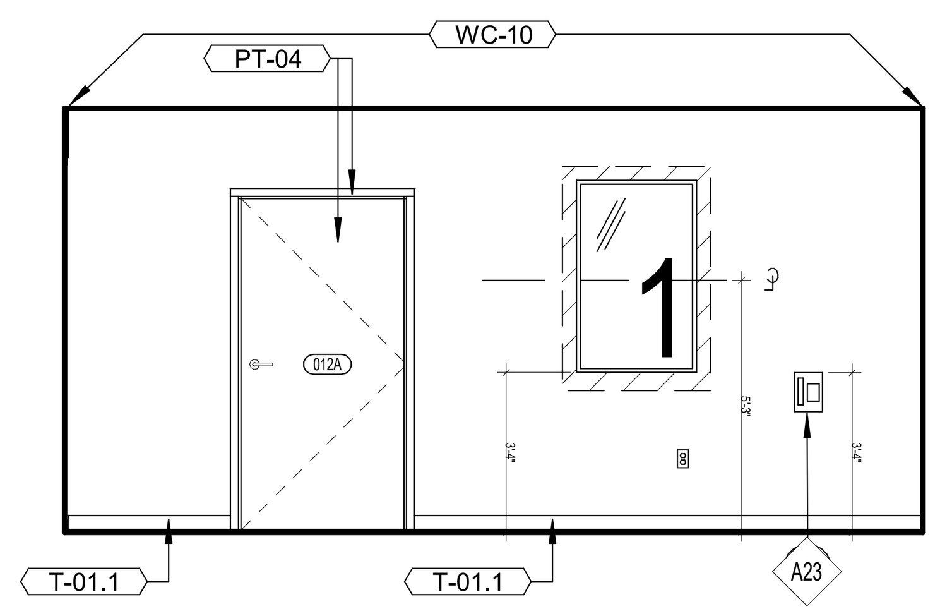
B4 TV LOUNGE - ELEV.
1/4" = 1'-0"



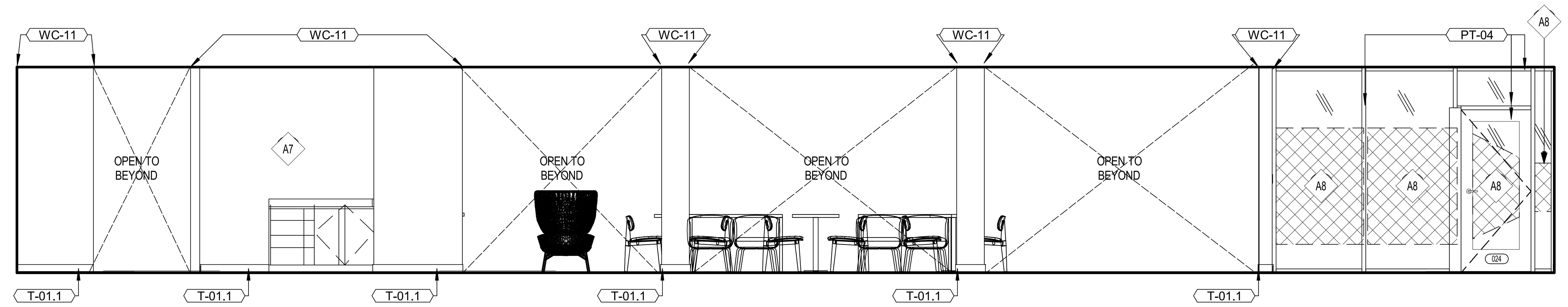
A4 TV LOUNGE - ELEV.
1/4" = 1'-0"



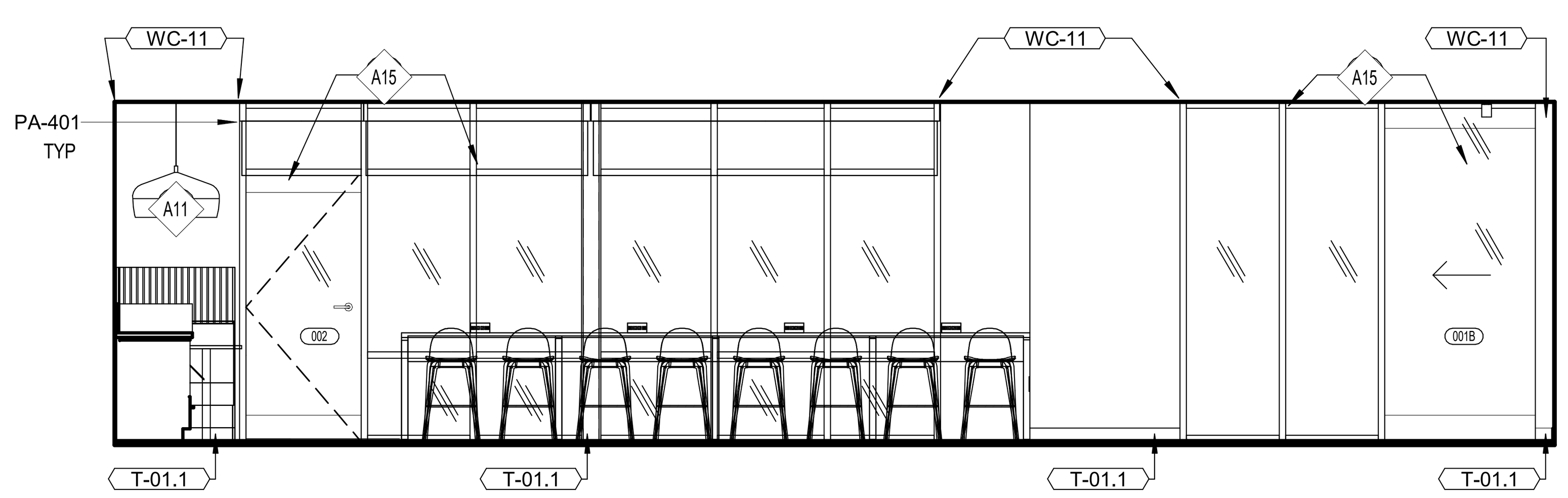
C3 ELEVATOR LOBBY - ELEV.
1/4" = 1'-0"



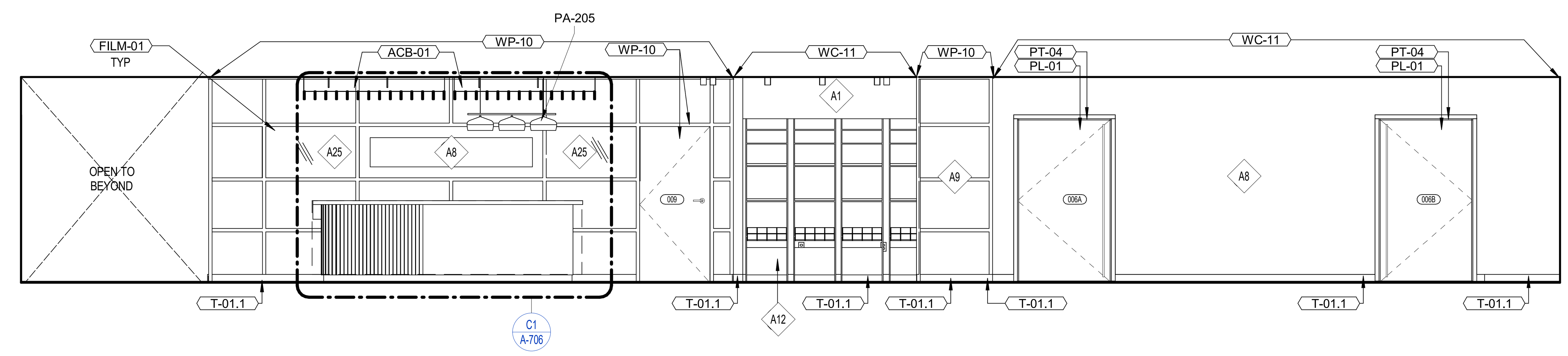
B3 ELEVATOR LOBBY - ELEV.
1/4" = 1'-0"



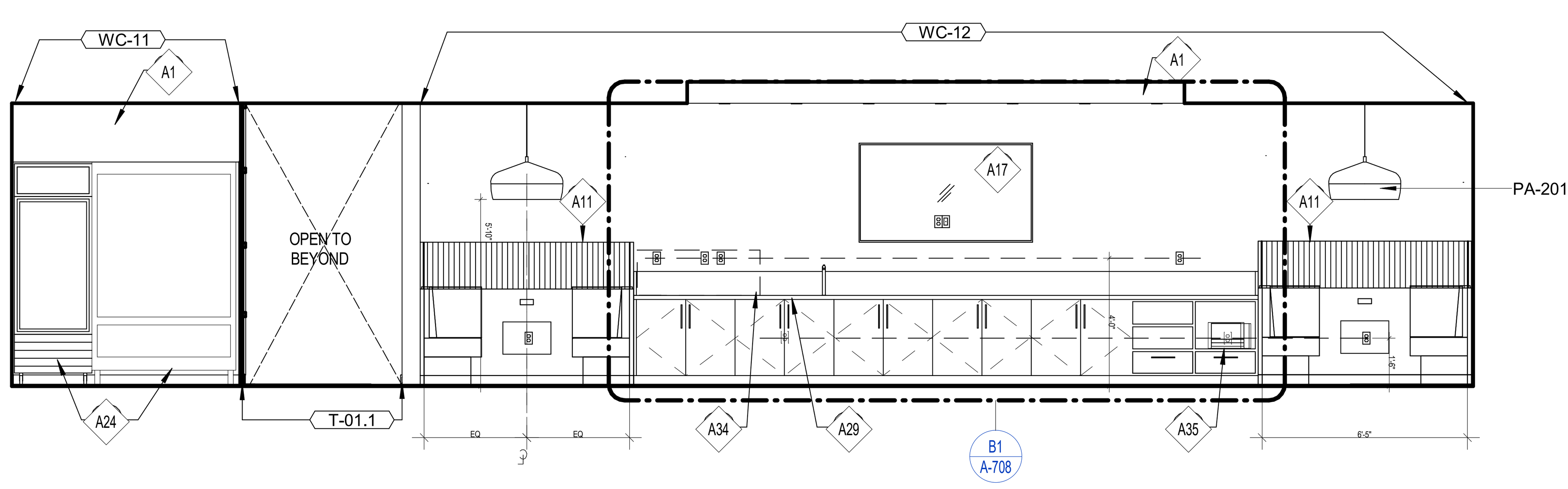
A3 REGISTRATION DESK - ELEV.
1/4" = 1'-0"



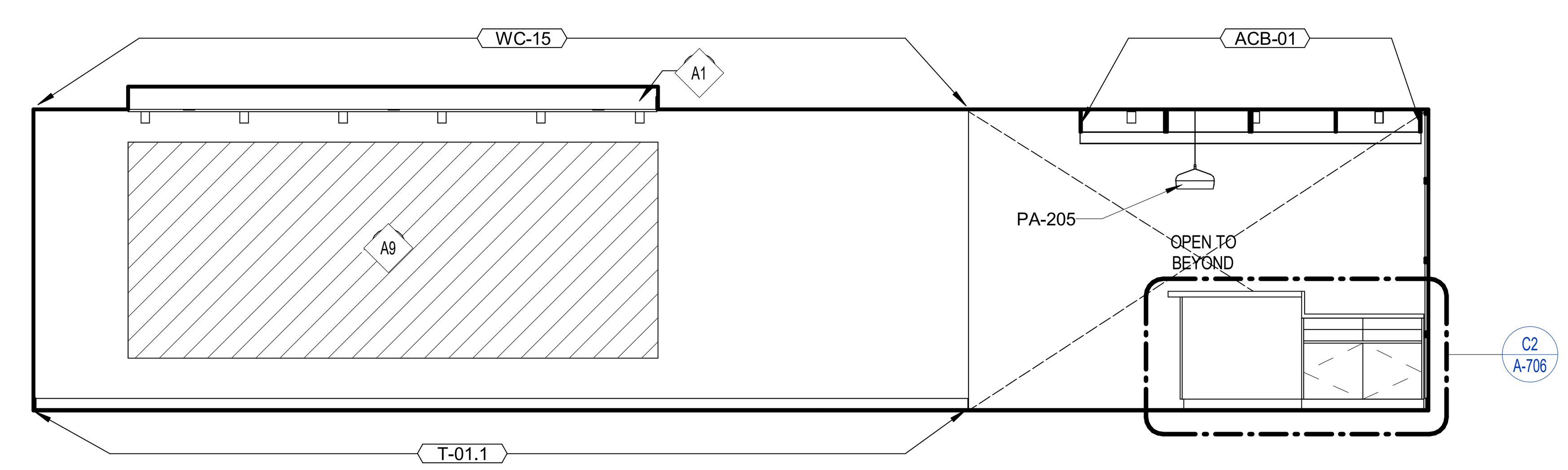
B2 LOBBY - ELEV.
1/4" = 1'-0"



A2 REGISTRATION DESK - ELEV.
1/4" = 1'-0"



B1 LOBBY - ELEV.
1/4" = 1'-0"



A1 LOBBY - ELEV.
1/4" = 1'-0"

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04/17/2024 - CITY SUBMISSION

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STATE OF MISSOURI
DAVID EUGENE HENDRICKS
NUMBER
7305
REGISTERED ARCHITECT
04/17/2024

HOME2 SUITES BY HILTON

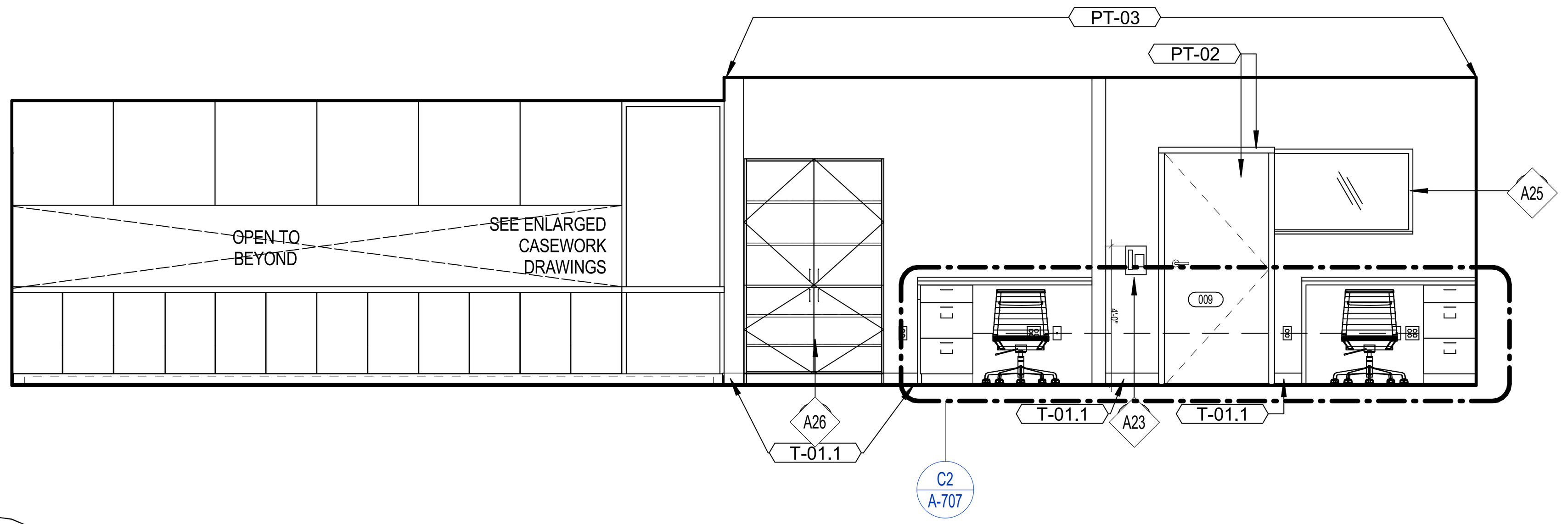
LEE'S SUMMIT, MO

SHEET TITLE
INTERIOR ELEVATIONS

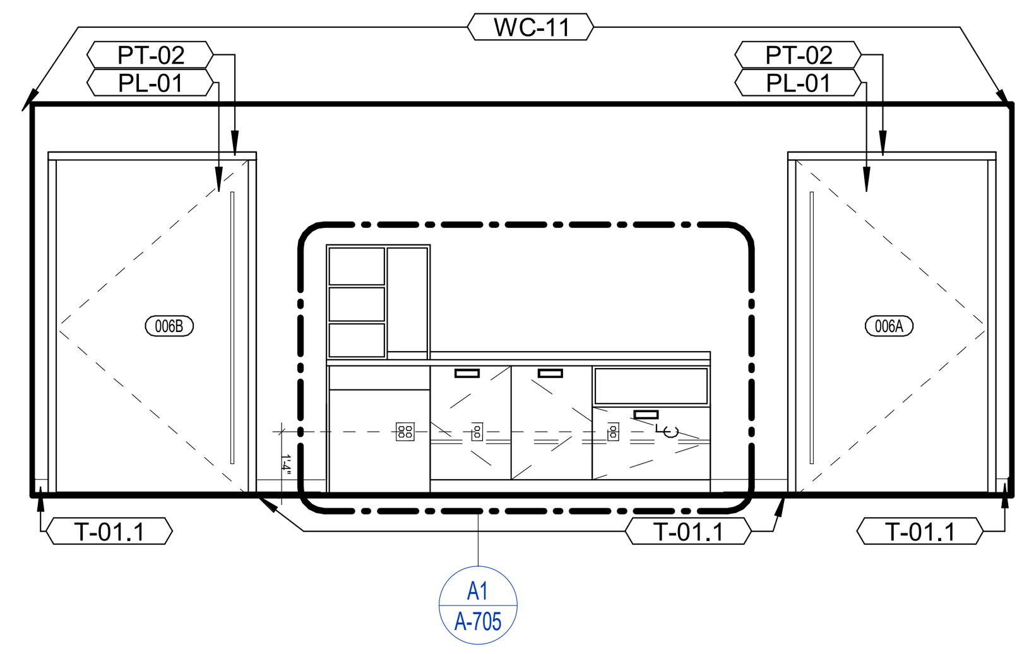
PROJECT NUMBER: 22023

SHEET NUMBER:

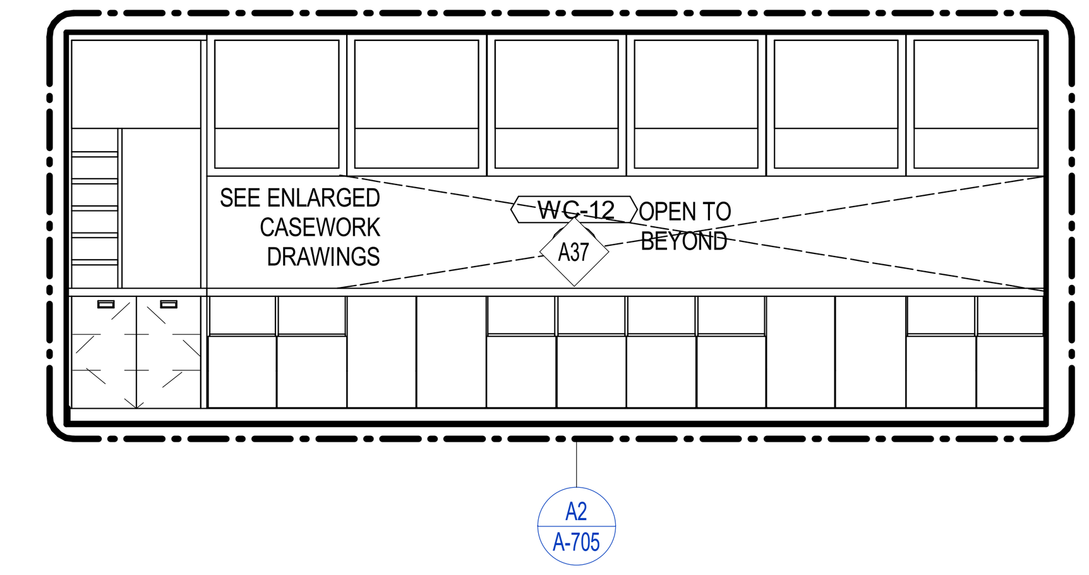
A-703



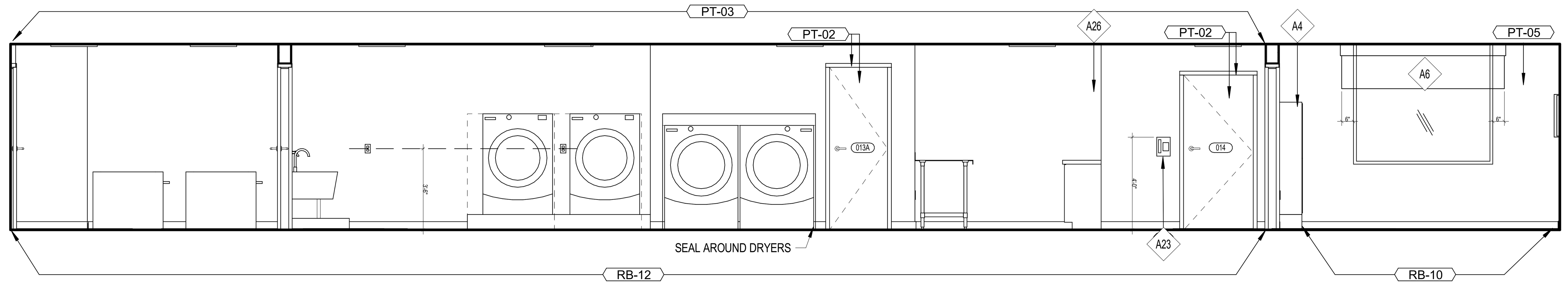
D5 WORK STATIONS AND SERVERY - ELEV.
1/4" = 1'-0"



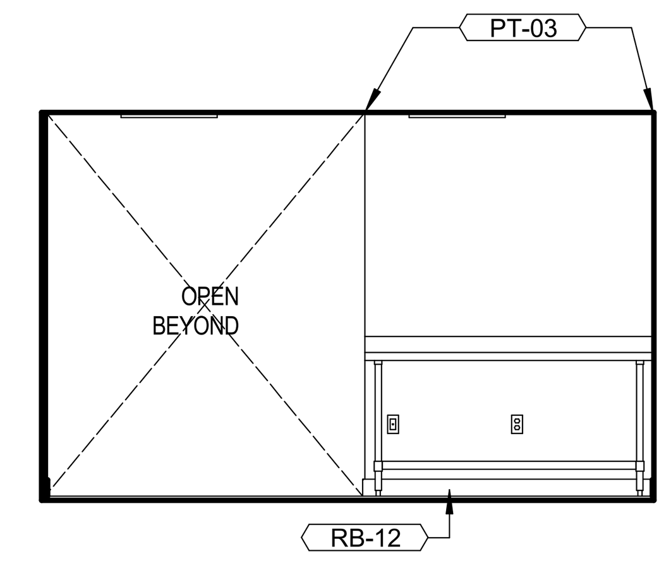
C5 BREAKFAST - ELEV.
1/4" = 1'-0"



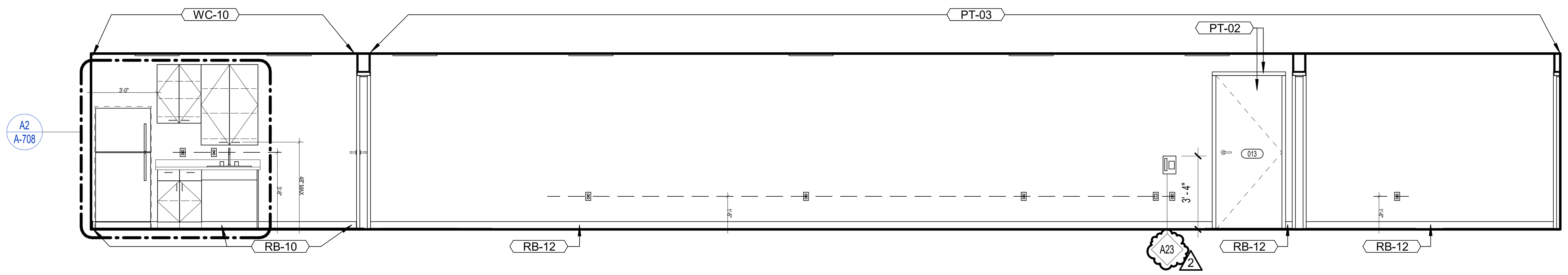
B5 BREAKFAST - ELEV.
1/4" = 1'-0"



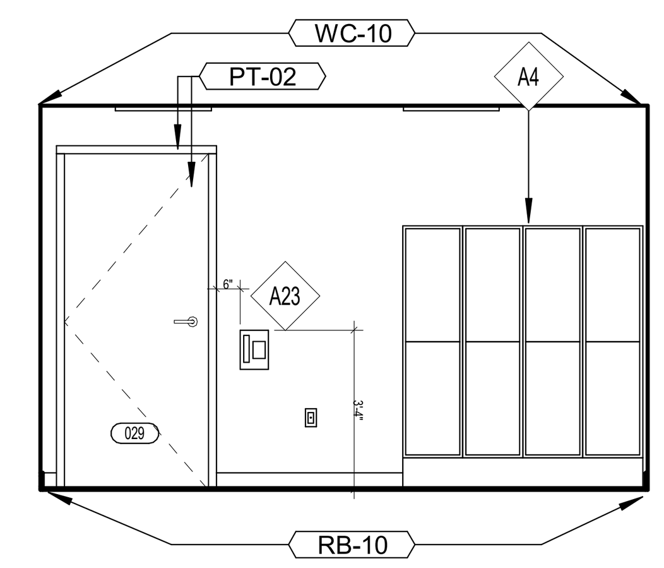
C4 LAUNDRY AND EMPLOYEE BREAKROOM - ELEV.
1/4" = 1'-0"



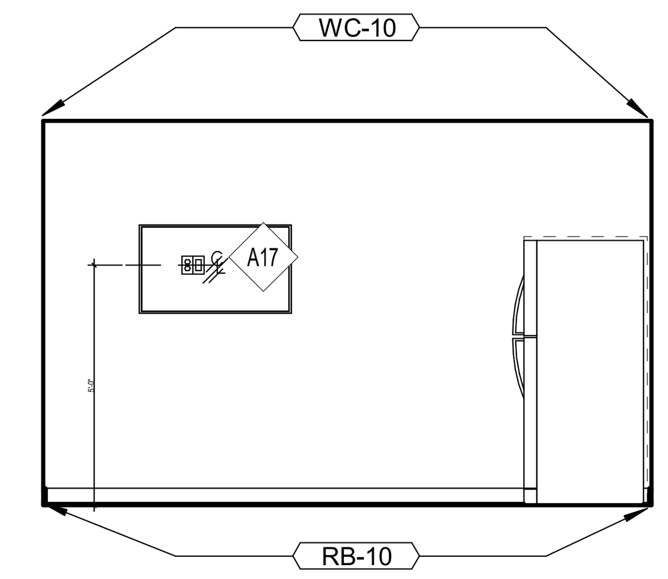
B4 LAUNDRY - ELEV.
1/4" = 1'-0"



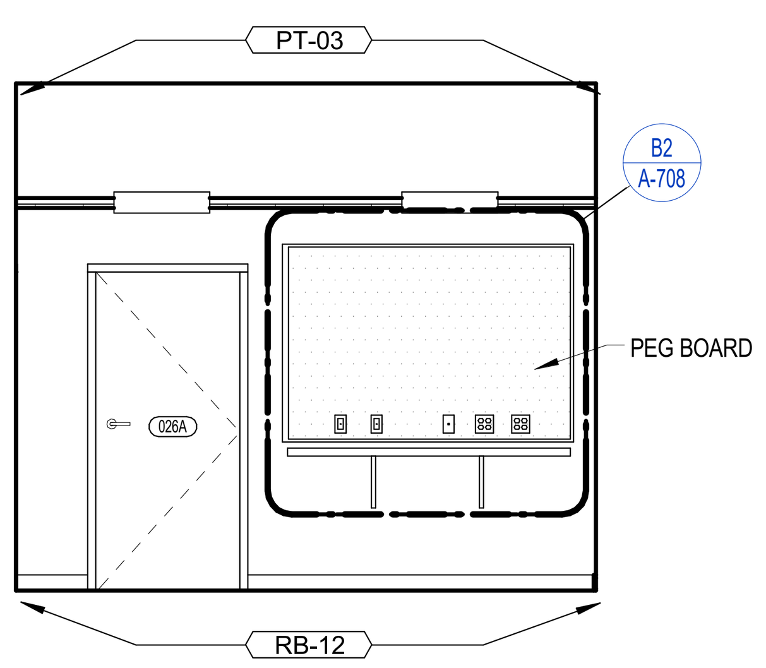
C3 LAUNDRY AND EMPLOYEE BREAKROOM - ELEV.
1/4" = 1'-0"



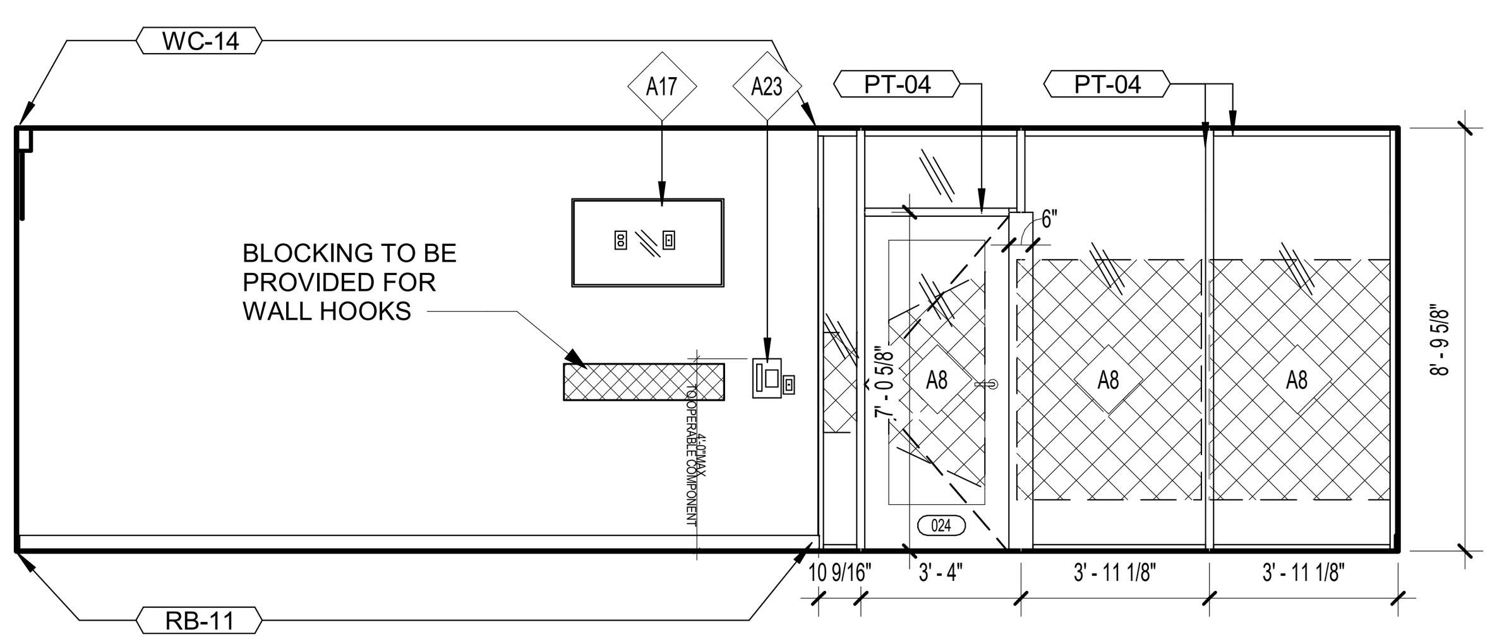
B3 EMPLOYEE BREAKROOM
1/4" = 1'-0"



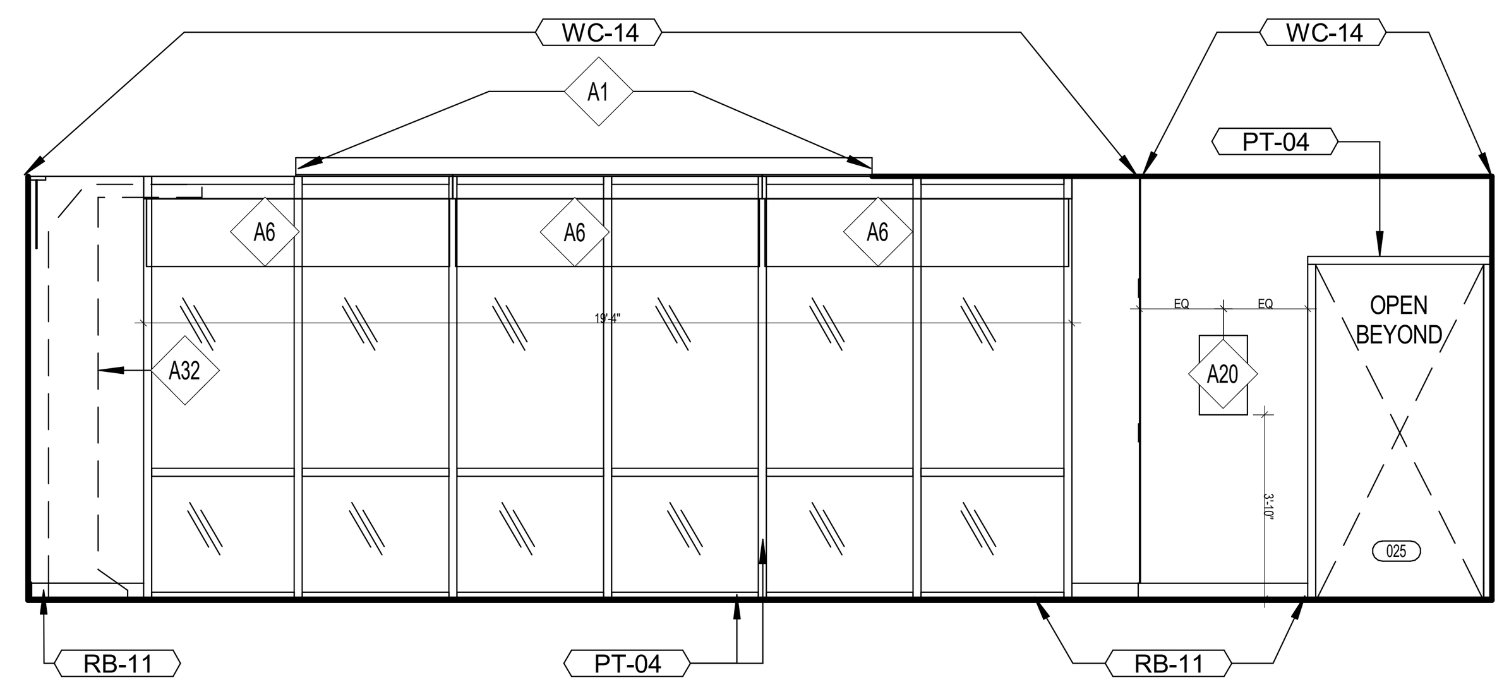
A3 EMPLOYEE BREAKROOM
1/4" = 1'-0"



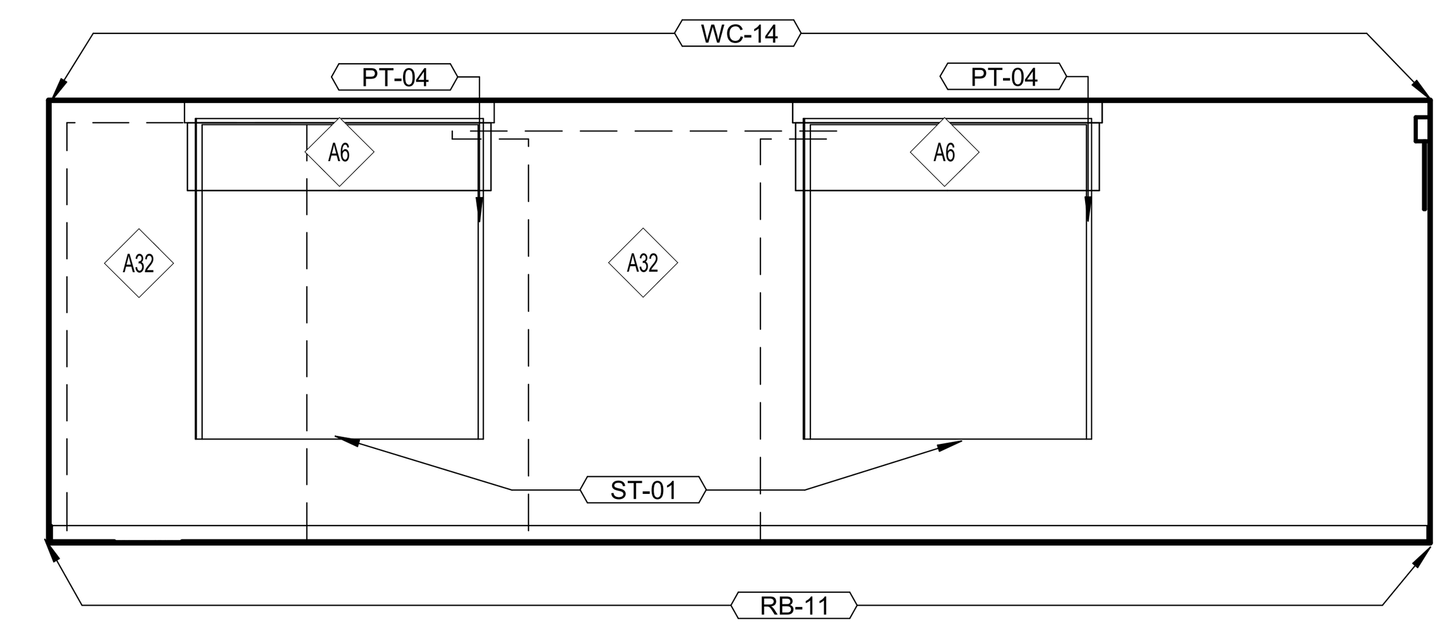
D2 ENGINEER - ELEV.
1/4" = 1'-0"



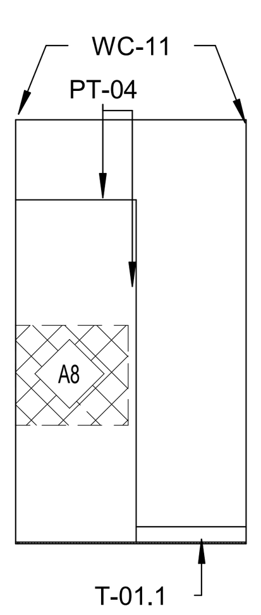
C2 FITNESS - ELEV.
1/4" = 1'-0"



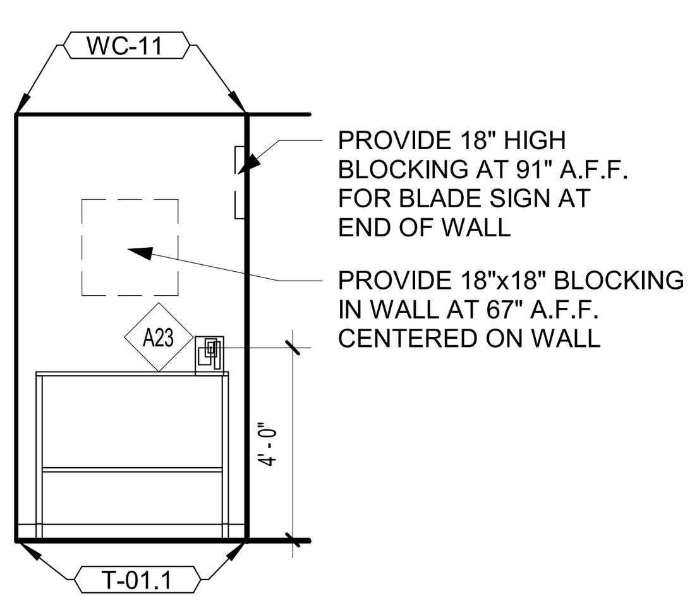
B2 FITNESS - ELEV.
1/4" = 1'-0"



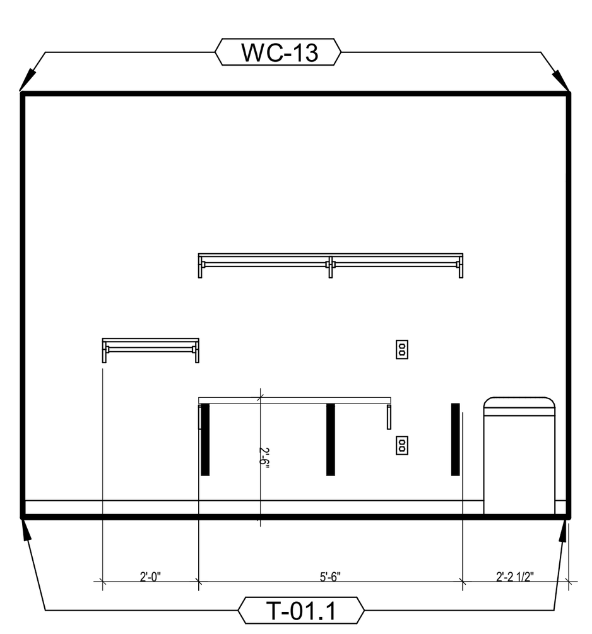
A2 FITNESS - ELEV.
1/4" = 1'-0"



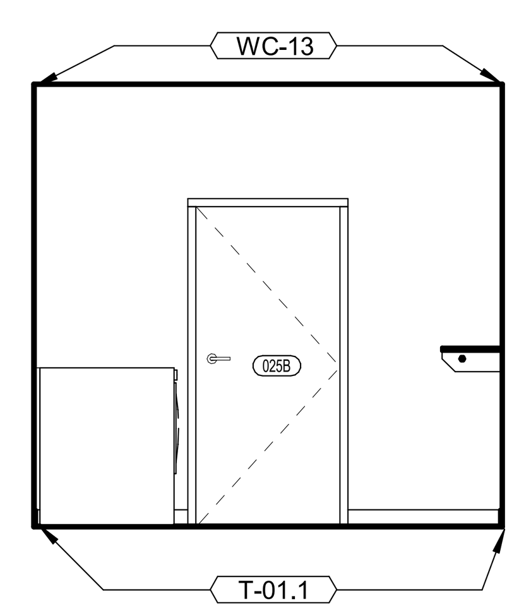
F1 FITNESS - ELEV.
1/4" = 1'-0"



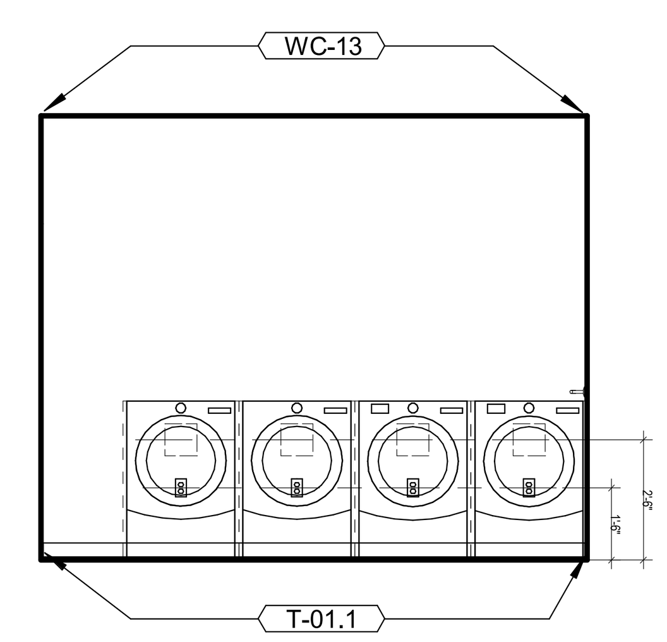
E1 FITNESS - ELEV.
1/4" = 1'-0"



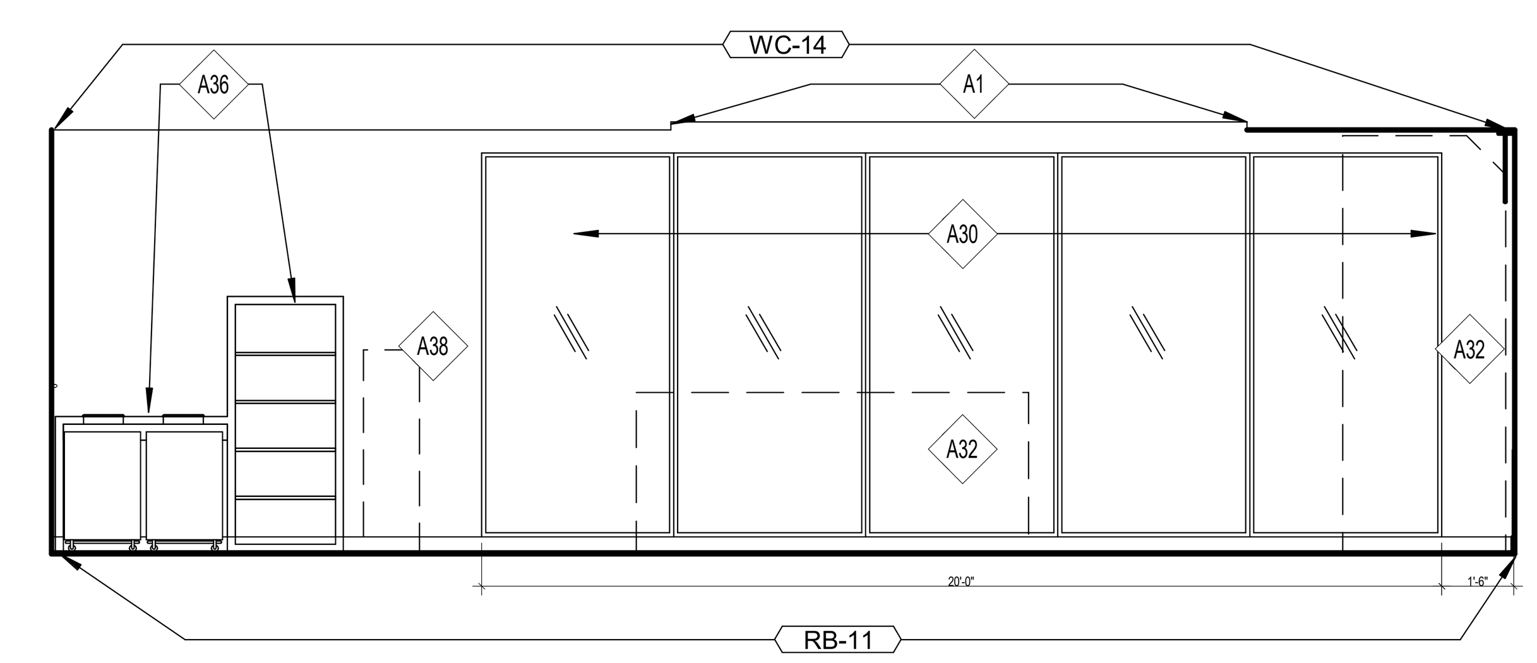
D1 GUEST LAUNDRY - ELEV.
1/4" = 1'-0"



C1 GUEST LAUNDRY - ELEV.
1/4" = 1'-0"



B1 GUEST LAUNDRY - ELEV.
1/4" = 1'-0"



A1 FITNESS - ELEV.
1/4" = 1'-0"

REFERENCE G-003 FOR GENERAL NOTES

KEYNOTE LEGEND

A1	GYPSUM BOARD SOFFIT FASCIA- REFER TO CEILING PLANS
A4	EMPLOYEE LOCKERS: PROVIDE QUANTITY OF ACCESSIBLE LOCKERS AS REQUIRED BY ACCESSIBILITY REQUIREMENTS OR LOCAL JURISDICTION'S CODE, WHICHEVER IS MORE STRICT. ACCESSIBLE LOCKER MUST BE LOCATED WHERE THERE IS A CLEAR FLOOR SPACE TO REACH THE SHELVES, LOCK, ET
A6	ROLLER SHADE - REFER TO FF&E
A8	SIGNAGE GRAPHIC, SEE INTERIOR SIGNAGE SPECIFICATION PACKAGE
A17	WALL MOUNTED TELEVISION, COORDINATE BLOCKING AND POWER LOCATION WITH TV MOUNT
A20	FITNESS ROOM RULES SIGN
A23	HOUSE PHONE
A25	VISION WINDOW
A26	SHELVING, SEE FF&E SPECIFICATIONS
A30	PLATE MIRROR
A32	FITNESS EQUIPMENT, SEE FITNESS.HILTON.COM FOR APPROVED VENDORS
A36	WALL MOUNTED TOWEL STORAGE WITH UNDERCOUNTER LAUNDR PROVIDE BLOCKING AS REQUIRED FOR WALL MOUNTED STORAGE.
A37	FINISH AT WALL BEYOND
A38	HYDRATION STATION

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REVISIONS:
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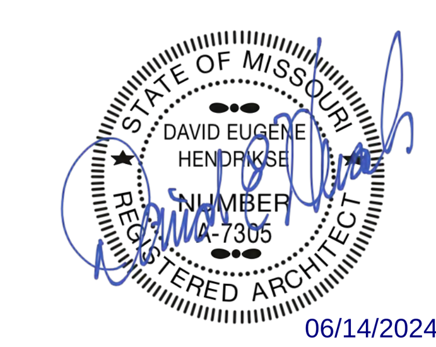


HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

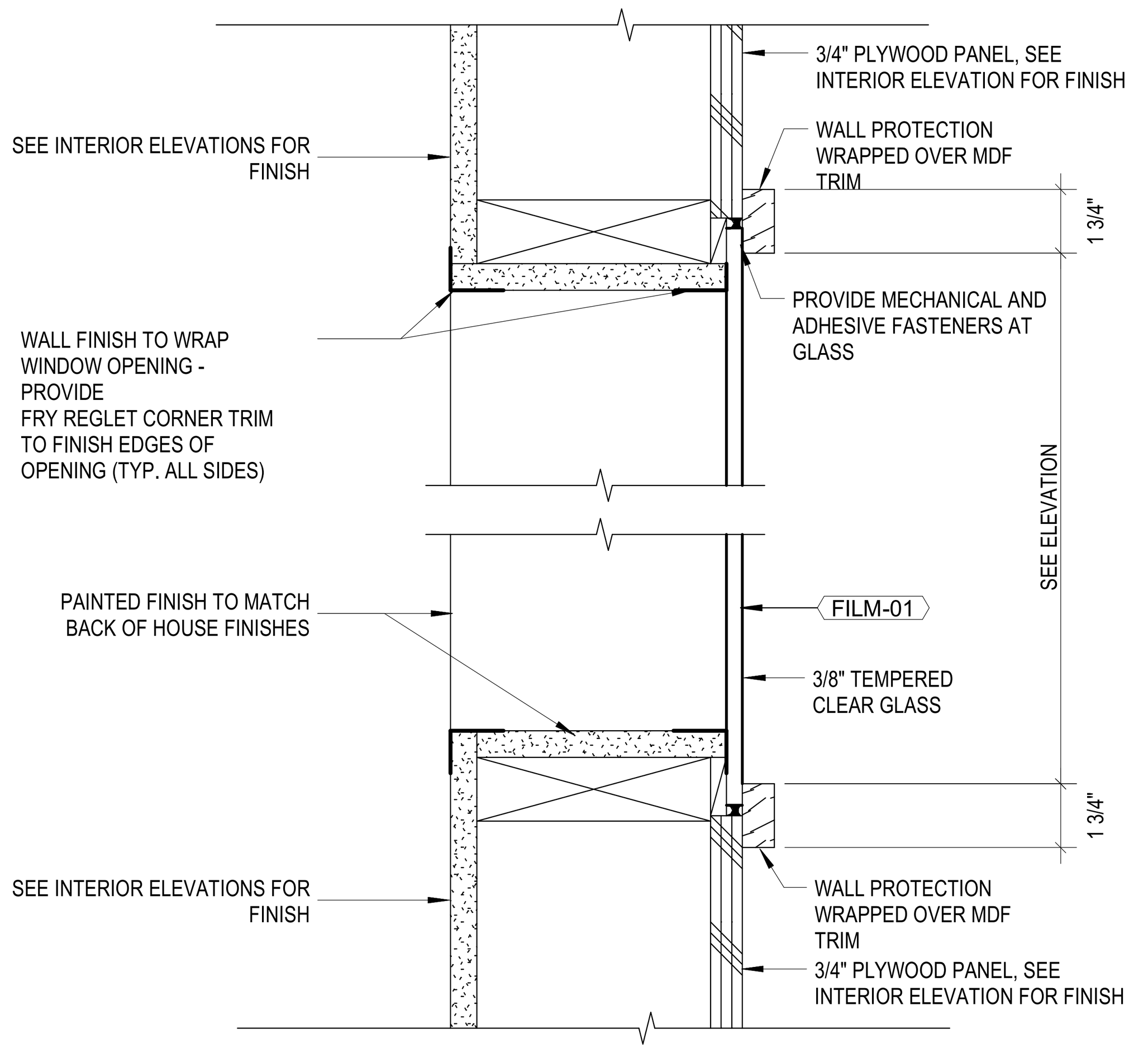
SHEET TITLE
INTERIOR ELEVATIONS

PROJECT NUMBER: 22023

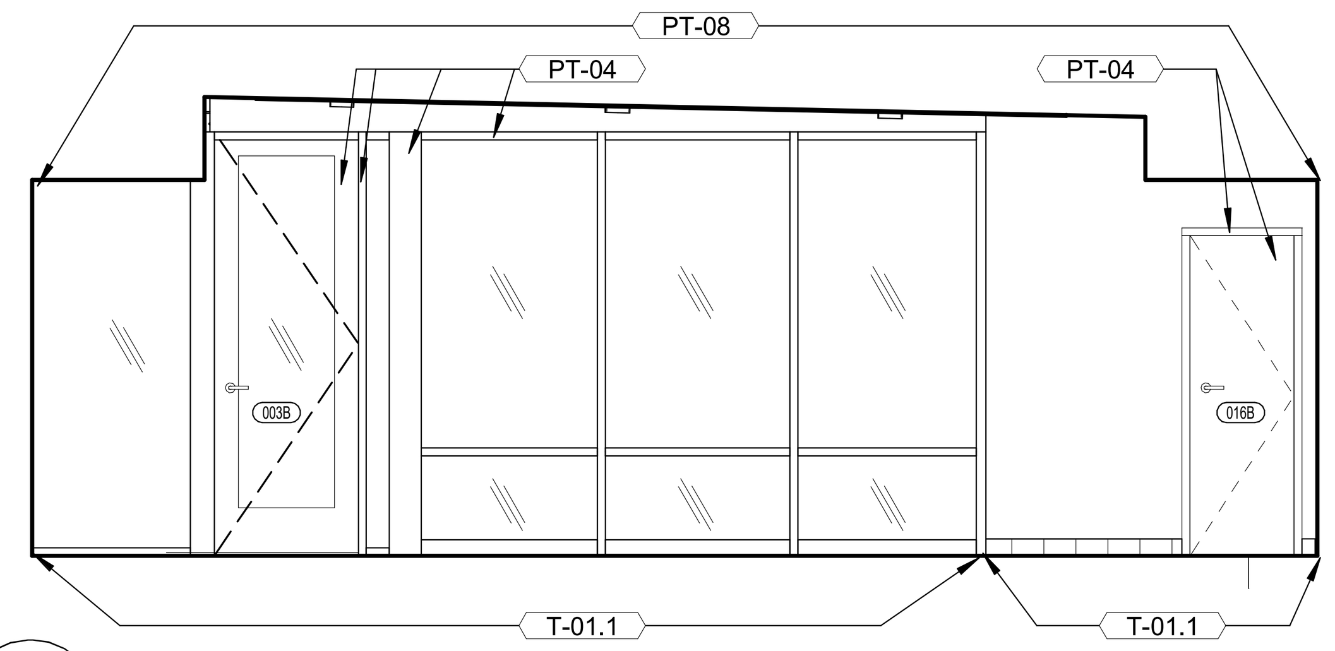
SHEET NUMBER:

A-704

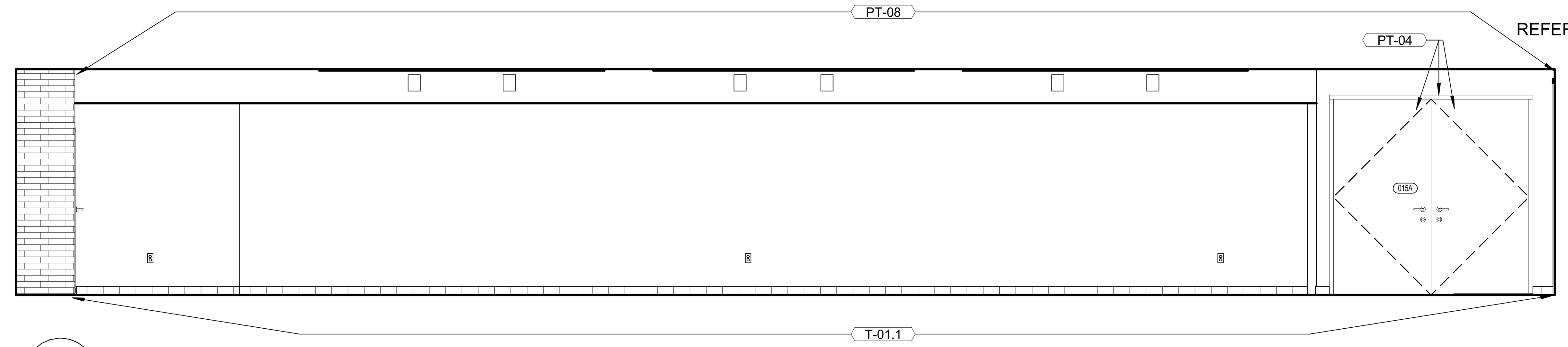
REFERENCE G-003 FOR GENERAL NOTES



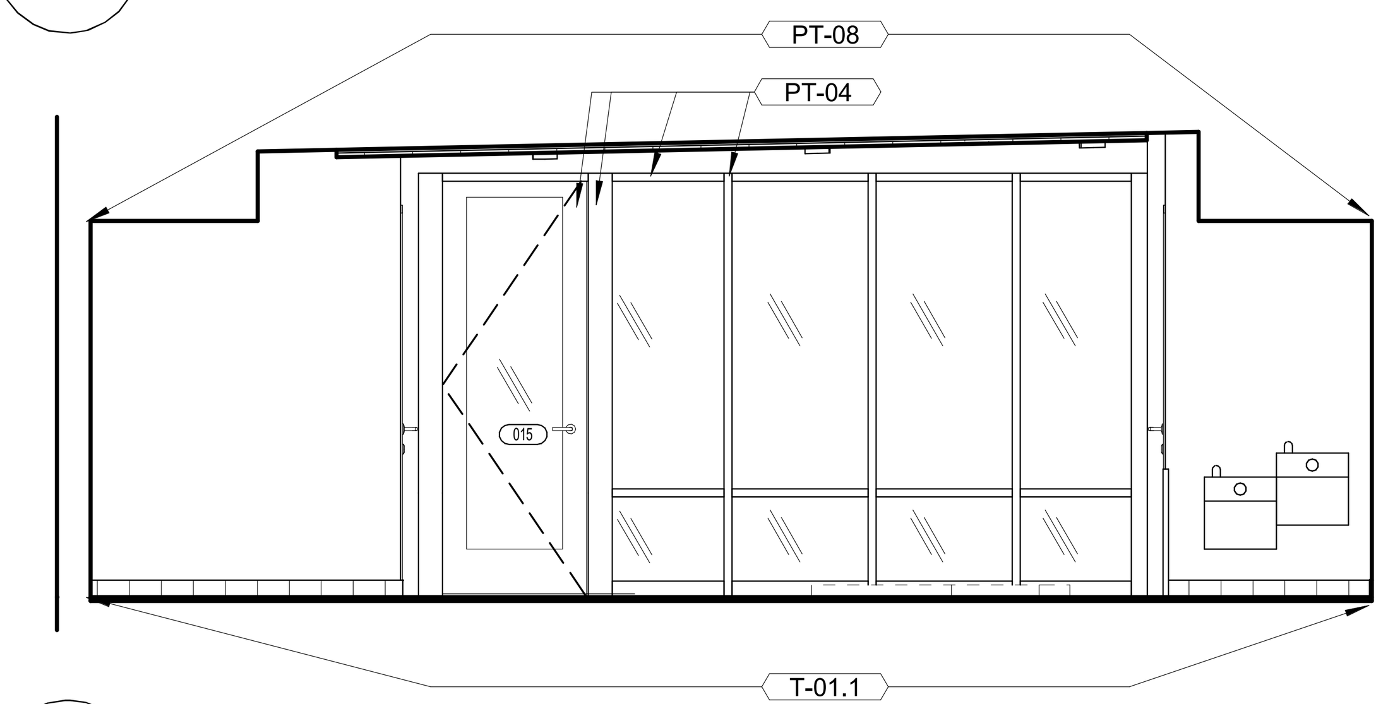
D2 VIEW WINDOW - DETAIL
3" = 1'-0"



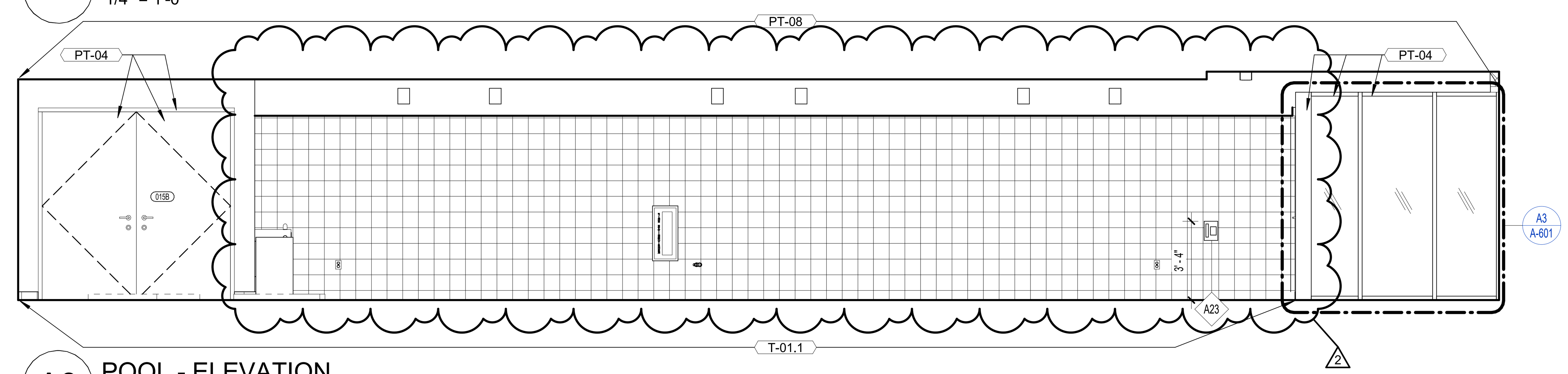
C4 POOL - ELEVATION
1/4" = 1'-0"



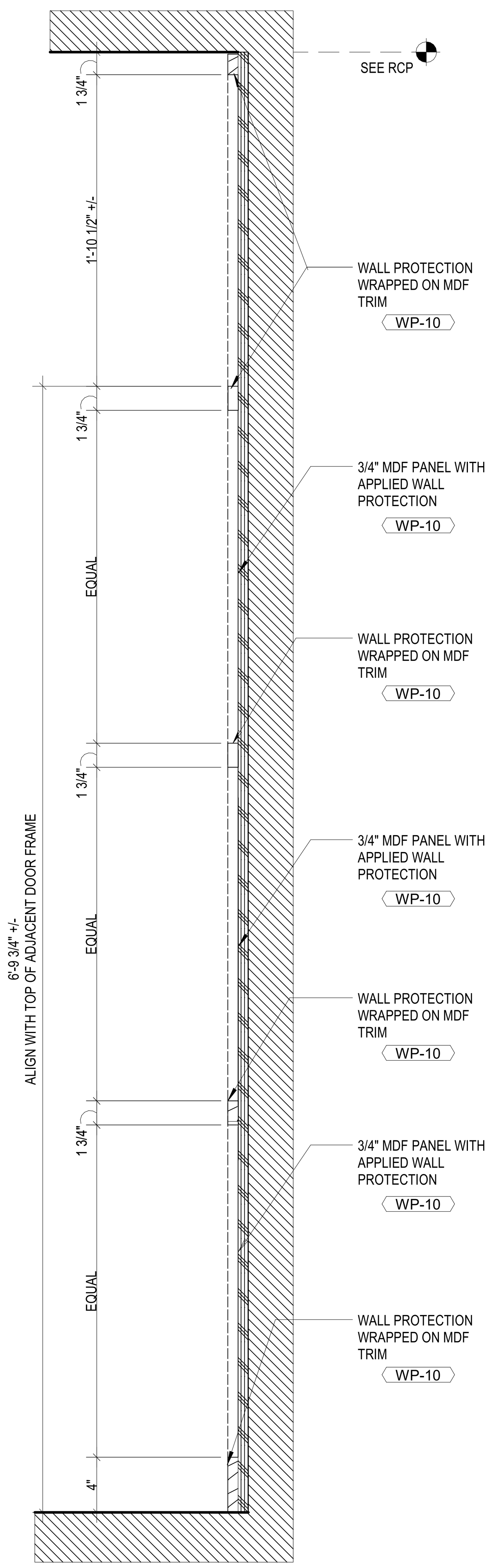
A4 POOL - ELEVATION
1/4" = 1'-0"



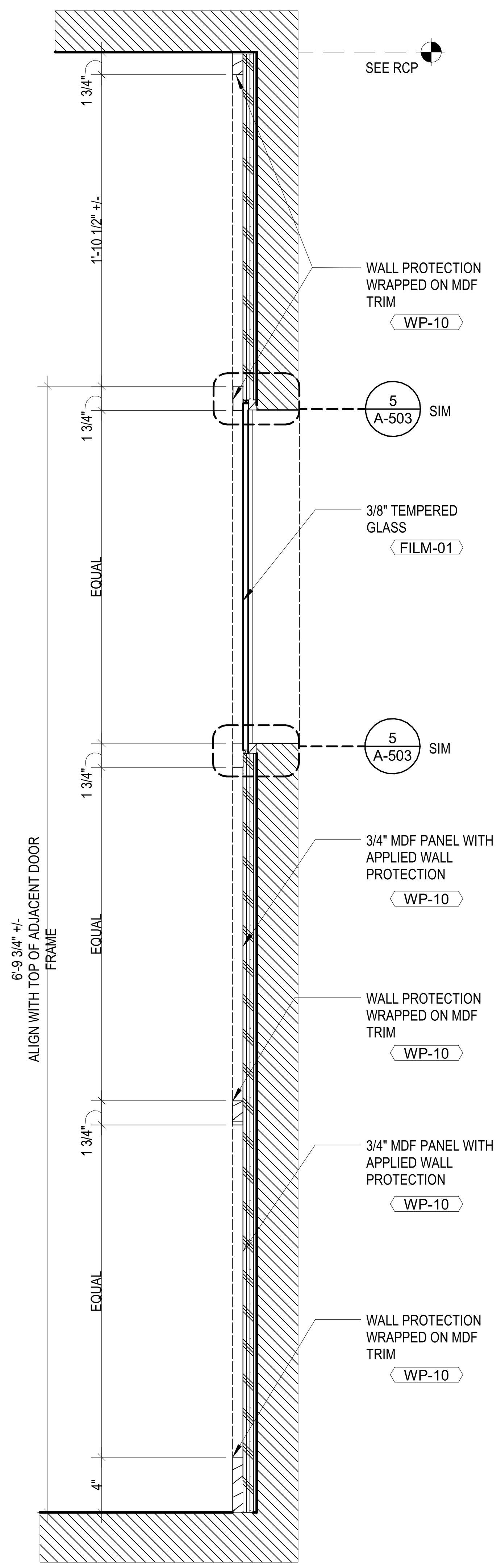
C3 POOL - ELEVATION
1/4" = 1'-0"



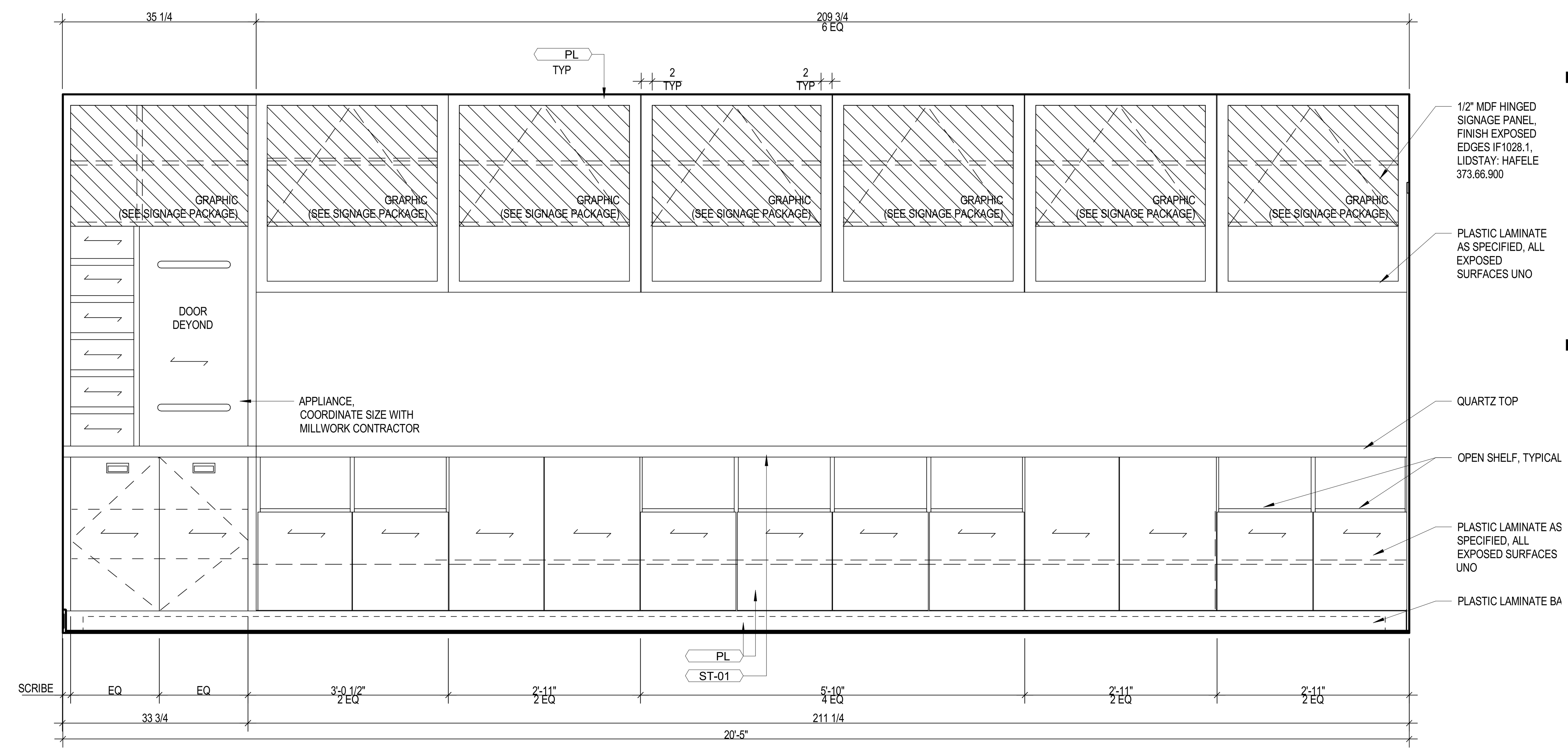
A3 POOL - ELEVATION
1/4" = 1'-0"



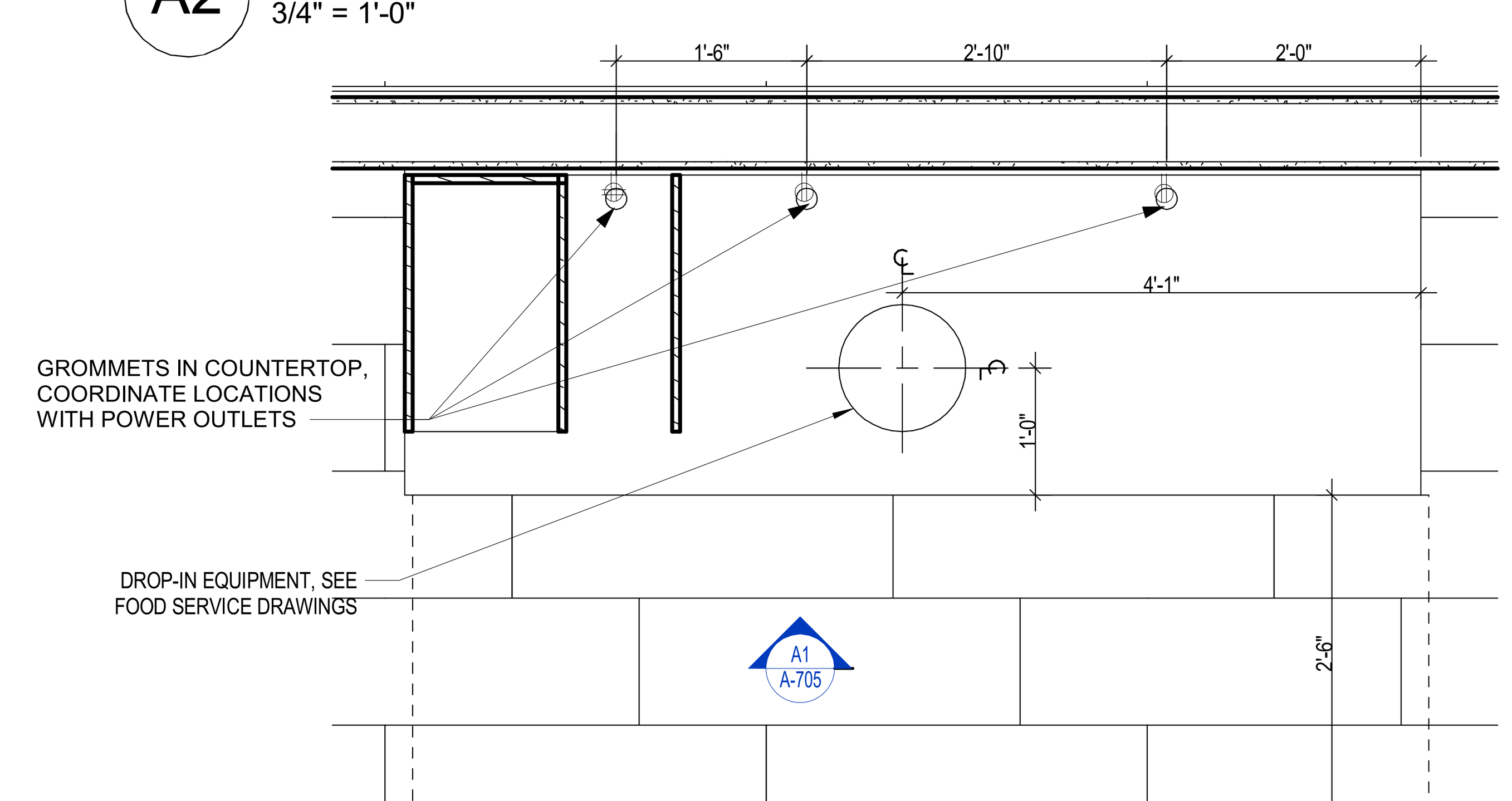
D1 TRIM - DETAIL
1 1/2" = 1'-0"



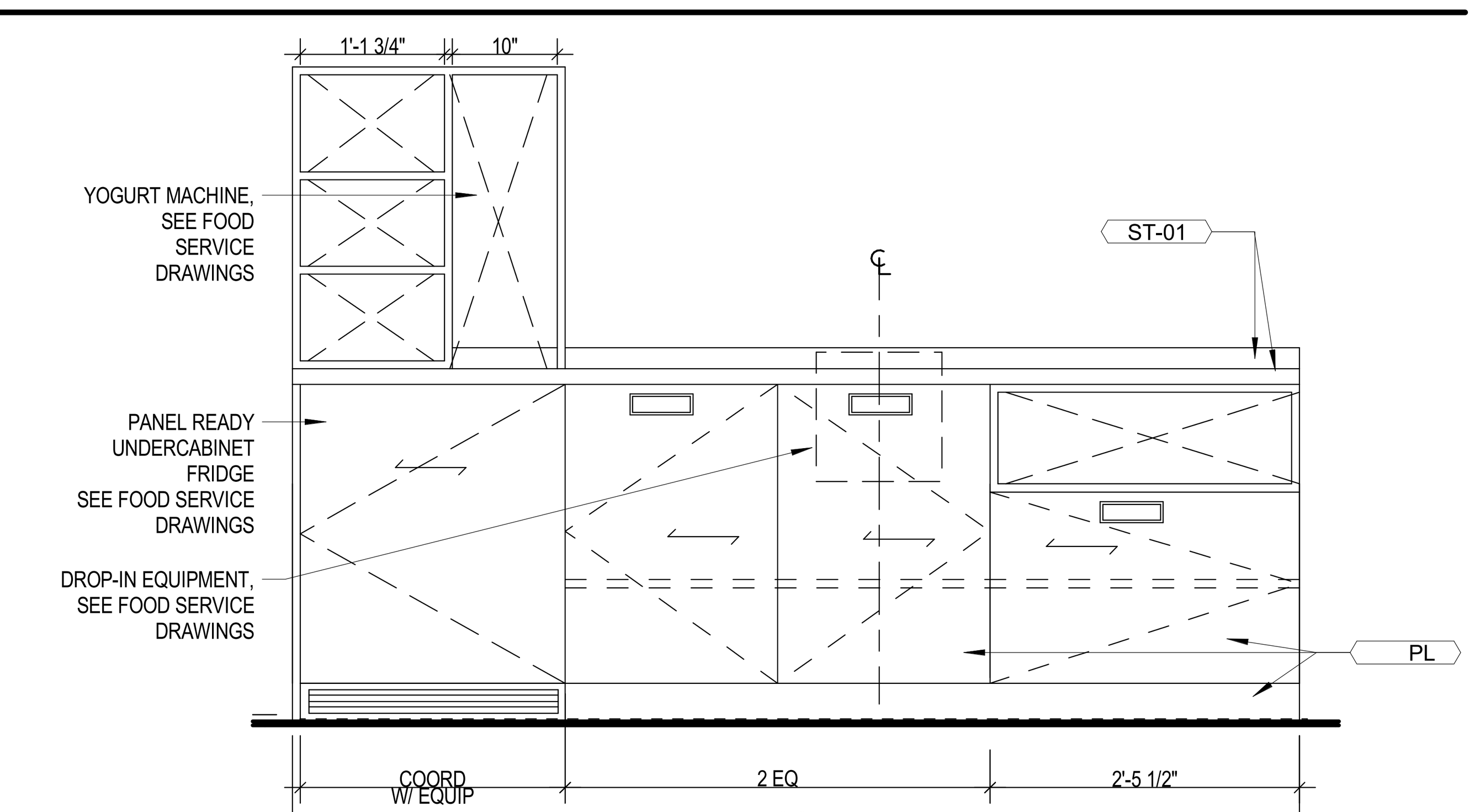
C1 TRIM AT WINDOW - DETAIL
1 1/2" = 1'-0"



A2 BREAKFAST - ELEV. ENLARGED 2
3/4" = 1'-0"



B1 BREAKFAST - PLAN ENLARGED
3/4" = 1'-0"



A1 BREAKFAST - ELEV. ENLARGED 1
3/4" = 1'-0"

PRINTS ISSUED
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REVISIONS:
2 06/14/2024 CITY & BRAND RESPONSE

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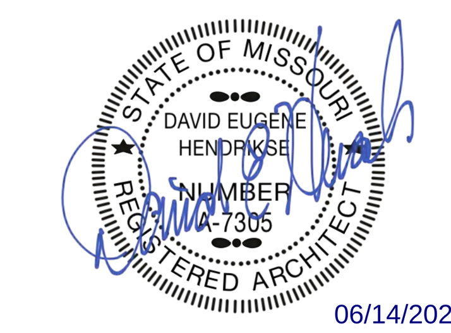


06/14/2024

HOME2 SUITES BY HILTON

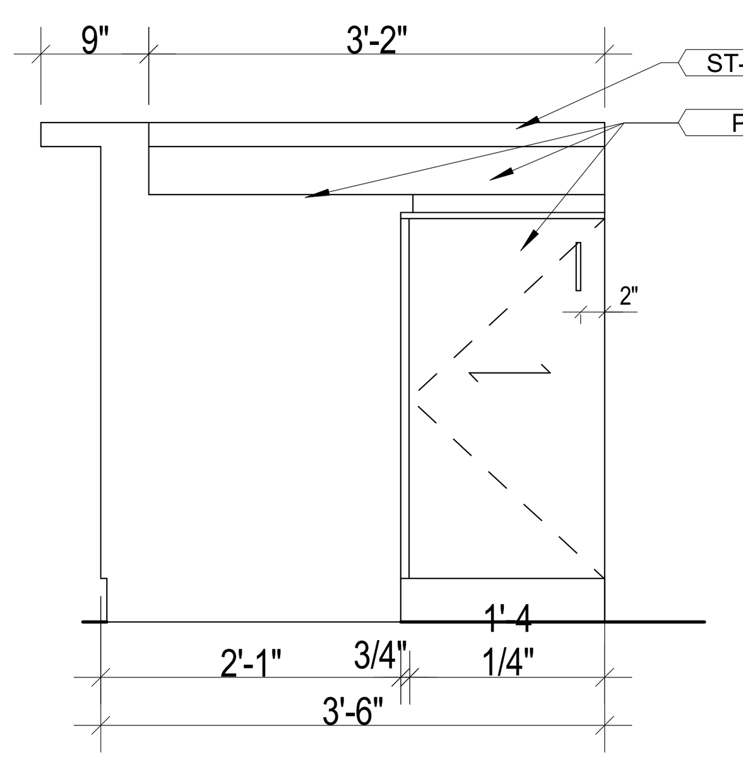
LEE'S SUMMIT, MO

SHEET TITLE
ENLARGED INTERIOR ELEVATIONS

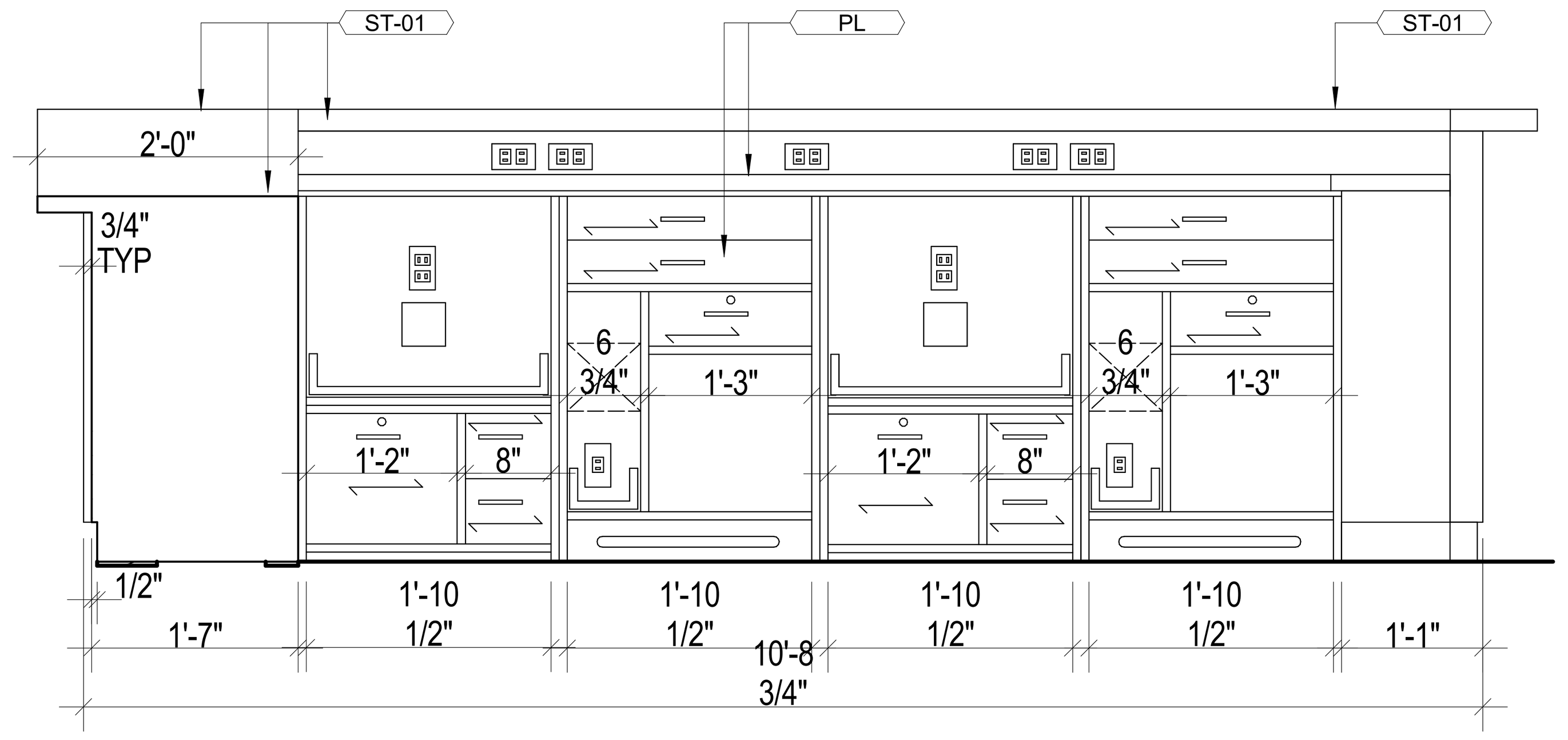
PROJECT NUMBER: 22023

SHEET NUMBER:

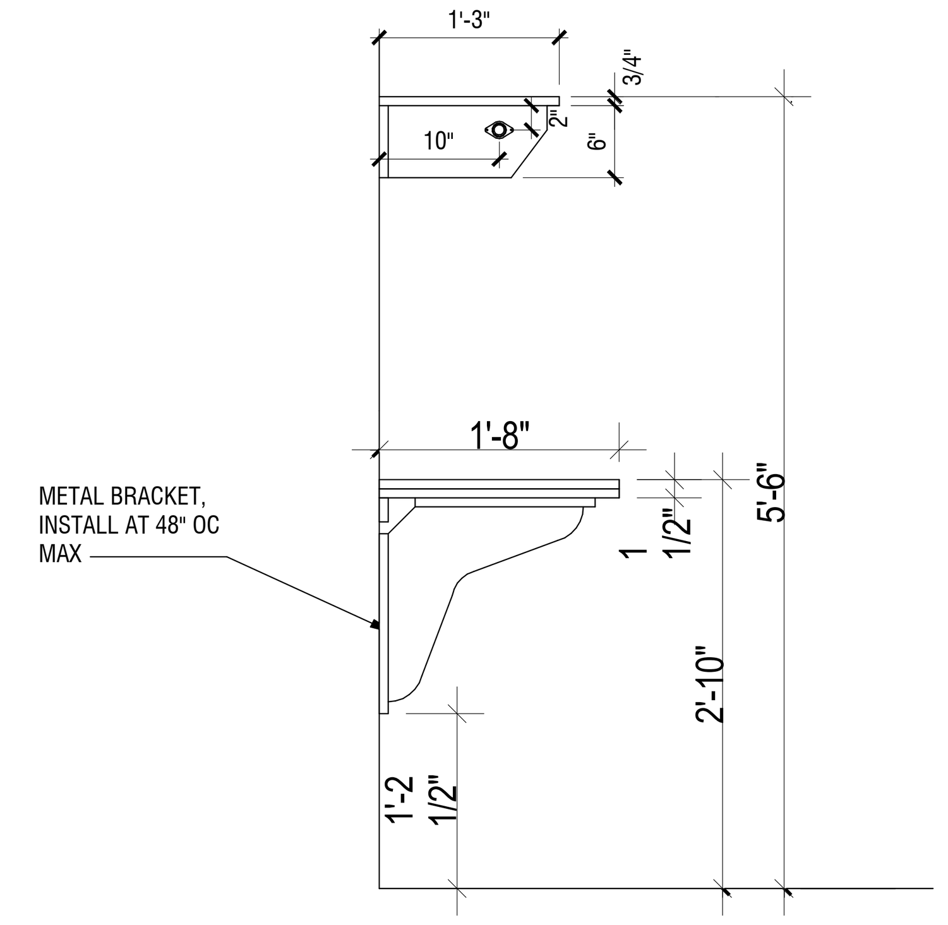
A-705



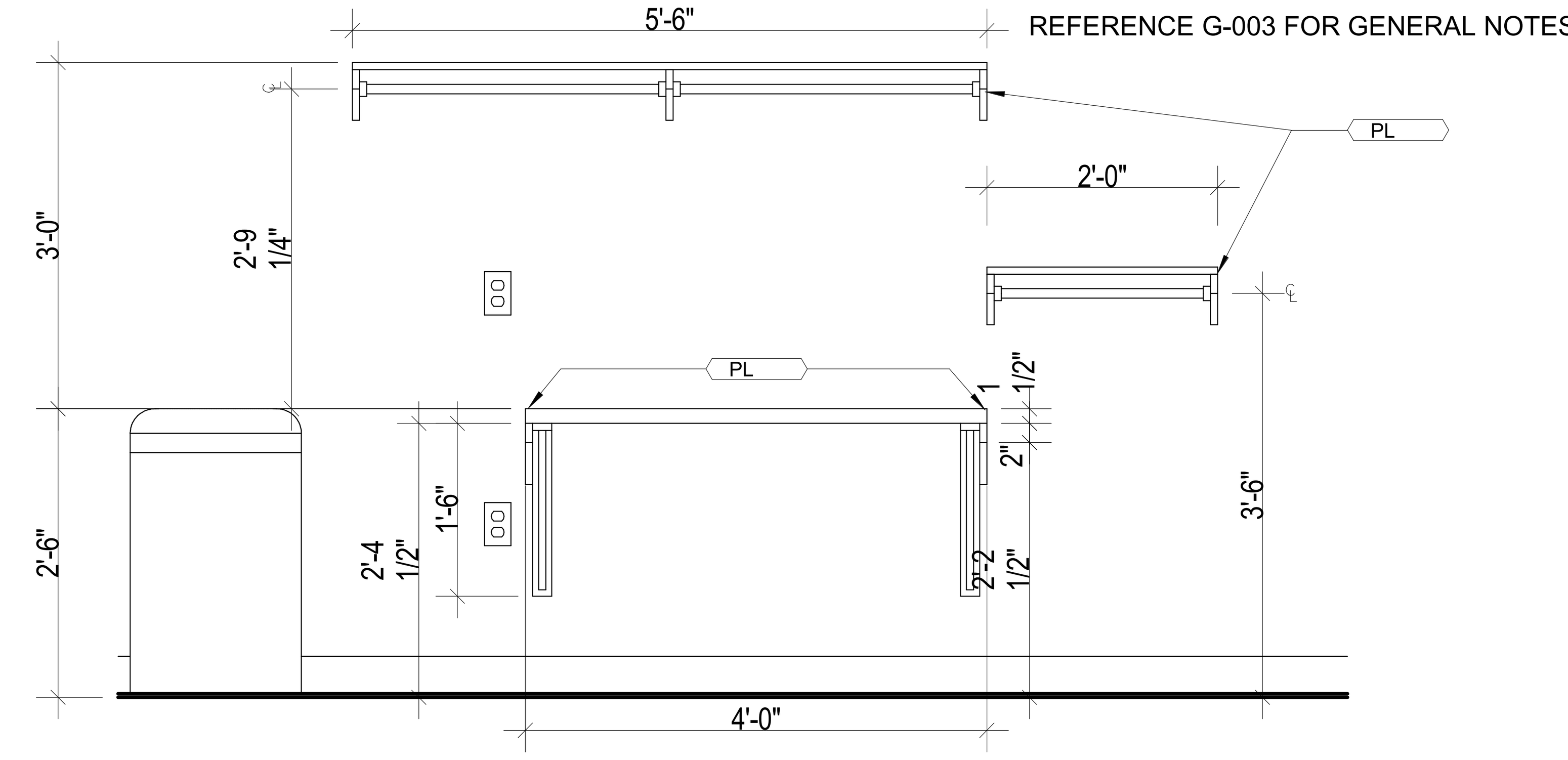
D3 RECEPTION - ELEV.
3/4" = 1'-0"



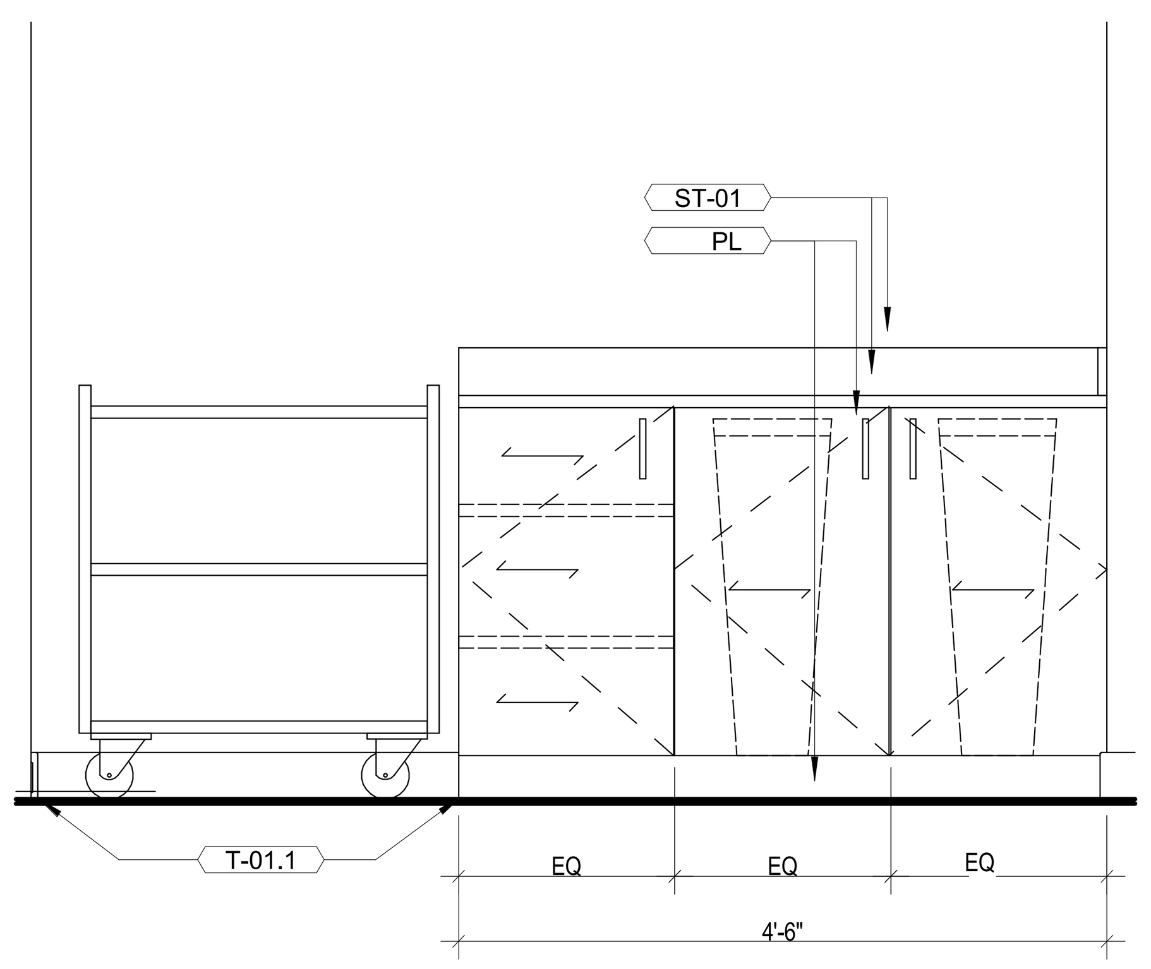
C3 RECEPTION - ELEV.
3/4" = 1'-0"



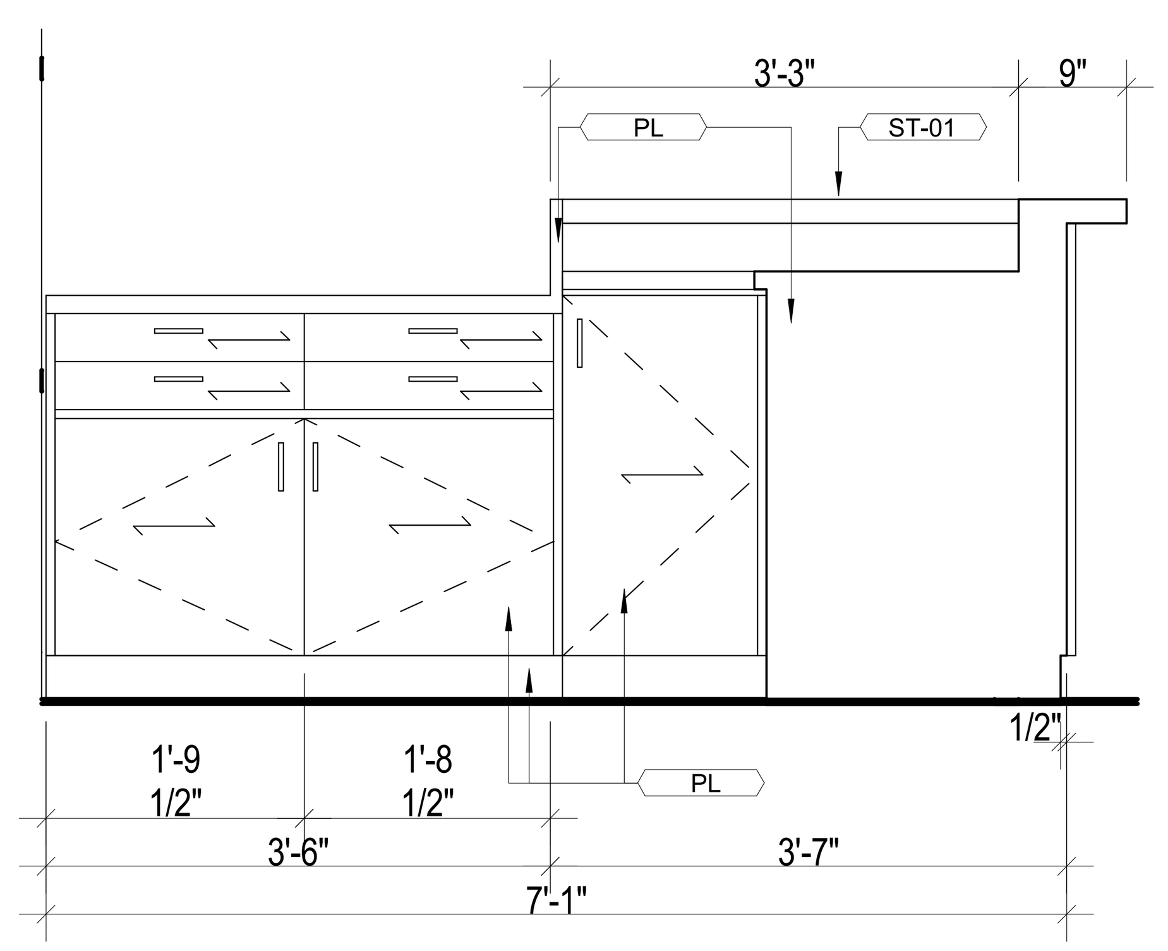
B3 GUEST LAUNDRY - SECTION
3/4" = 1'-0"



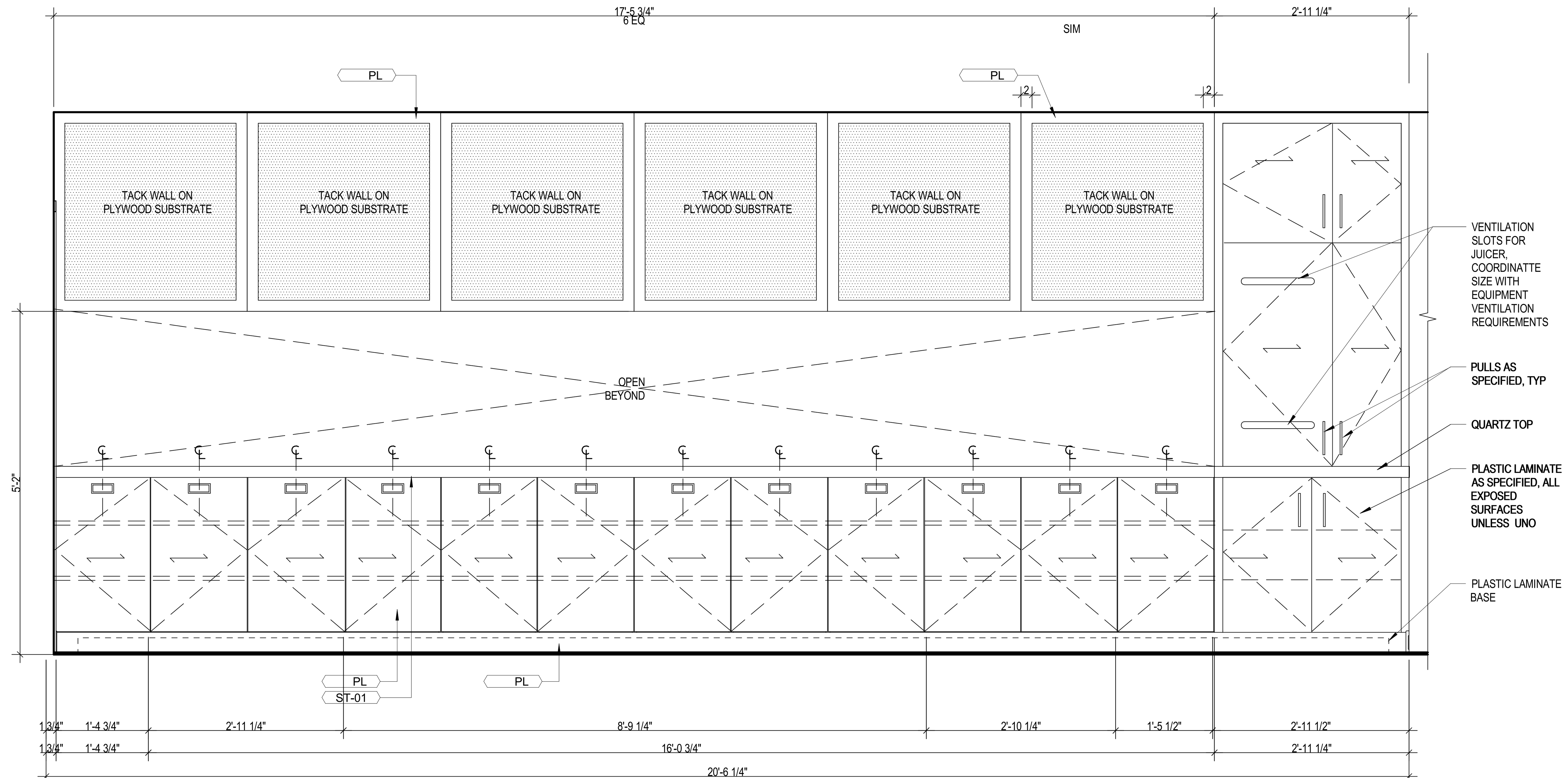
A3 GUEST LAUNDRY - ELEV.
3/4" = 1'-0"



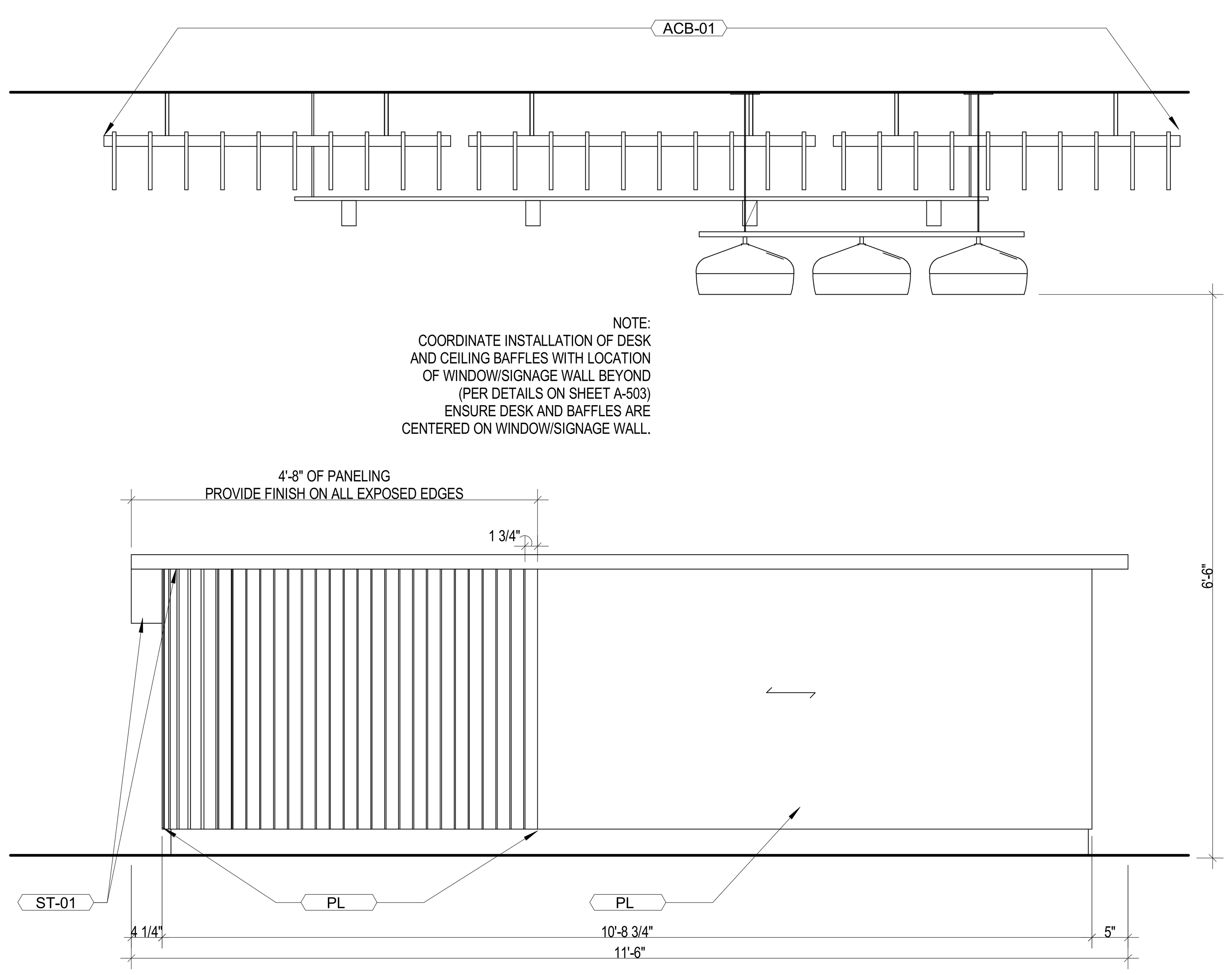
D2 DISH RECOVERY ELEVATION
3/4" = 1'-0"



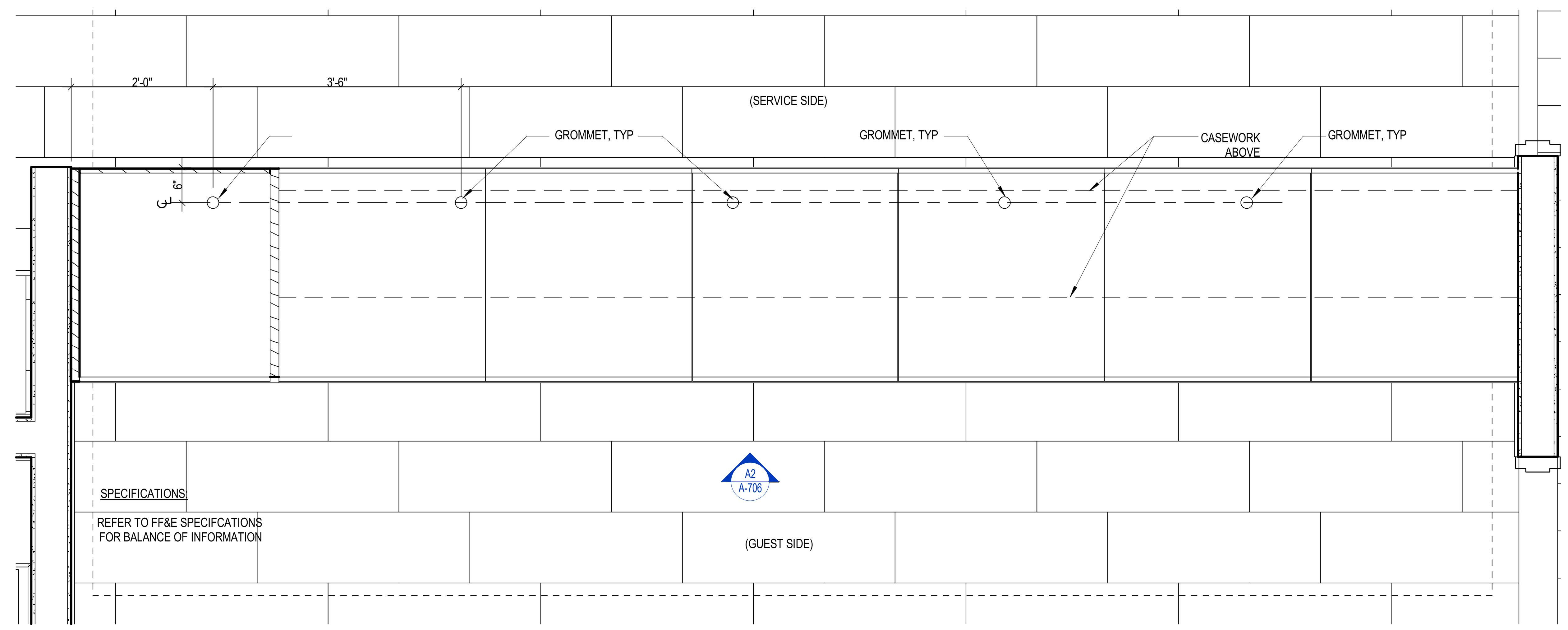
C2 RECEPTION - ELEV.
3/4" = 1'-0"



A2 SERVERY - ELEVATION ENLARGED
3/4" = 1'-0"



C1 RECEPTION - ELEVATION ENLARGED
3/4" = 1'-0"



A1 SERVERY - PLAN ENLARGED
3/4" = 1'-0"

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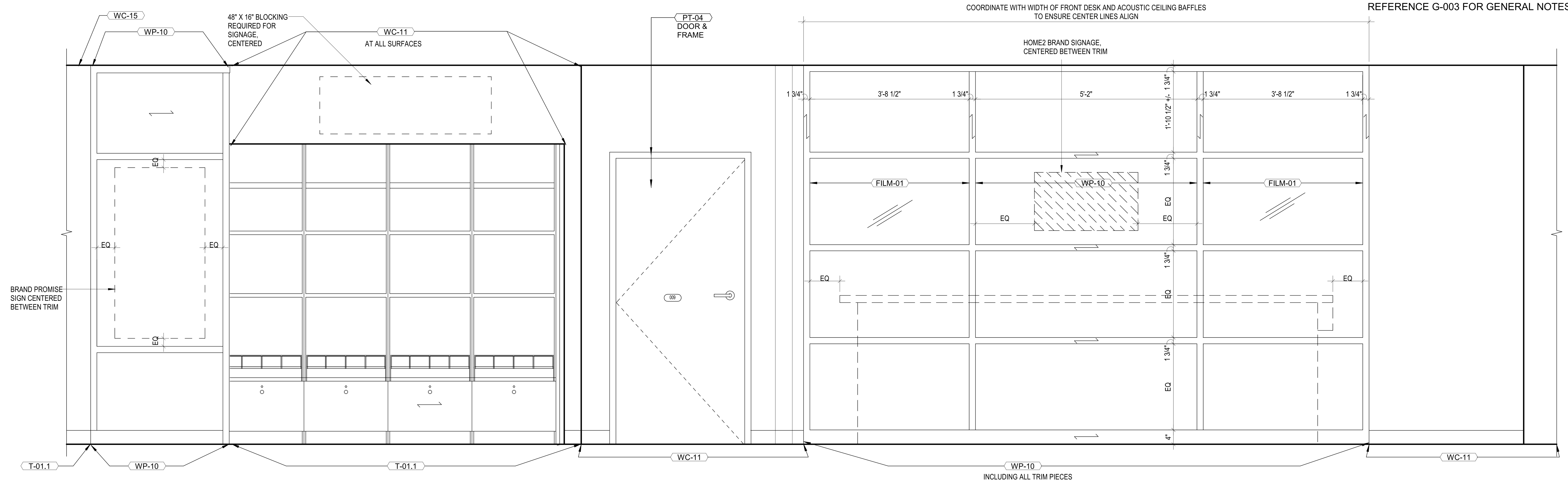
STATE OF MISSOURI
DAVID EUGENE HENDRIKSE
NUMBER A-7305
REGISTERED ARCHITECT
04/17/2024

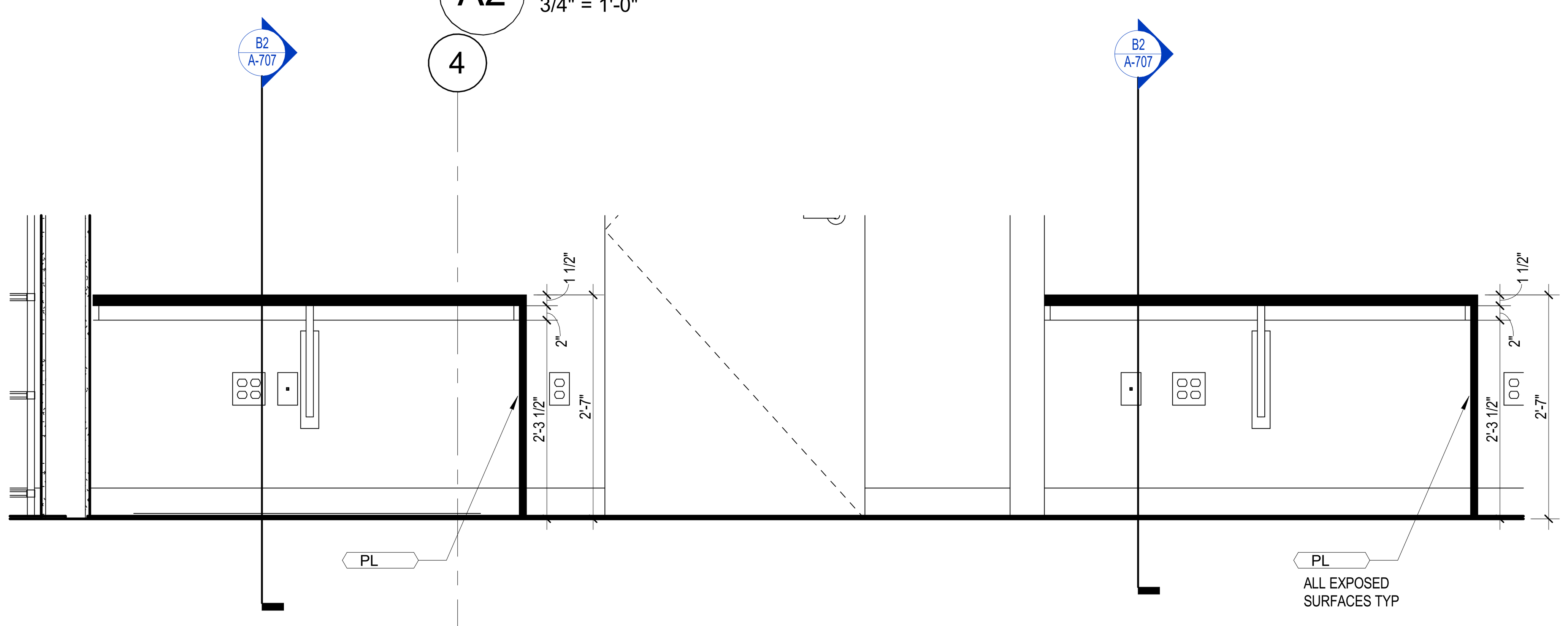
HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
ENLARGED INTERIOR ELEVATIONS
PROJECT NUMBER: 22023
SHEET NUMBER:
A-706

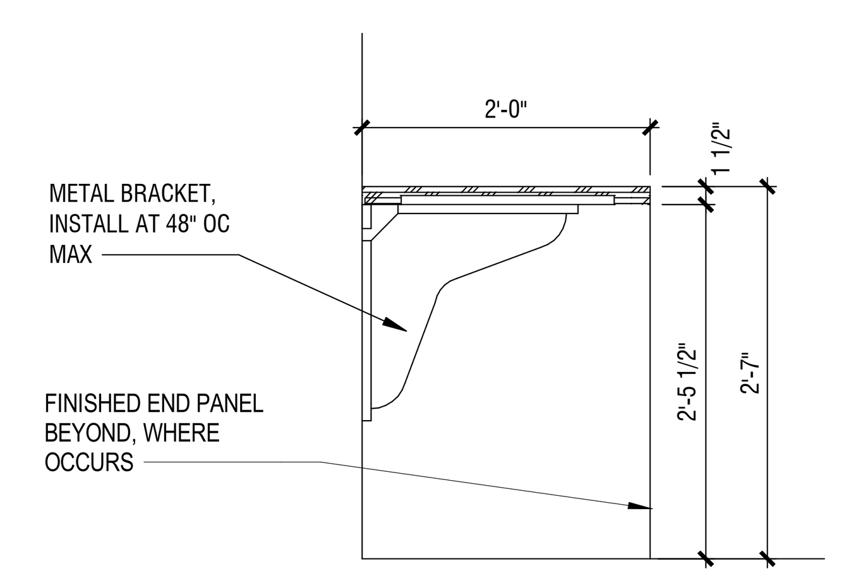
REFERENCE G-003 FOR GENERAL NOTES



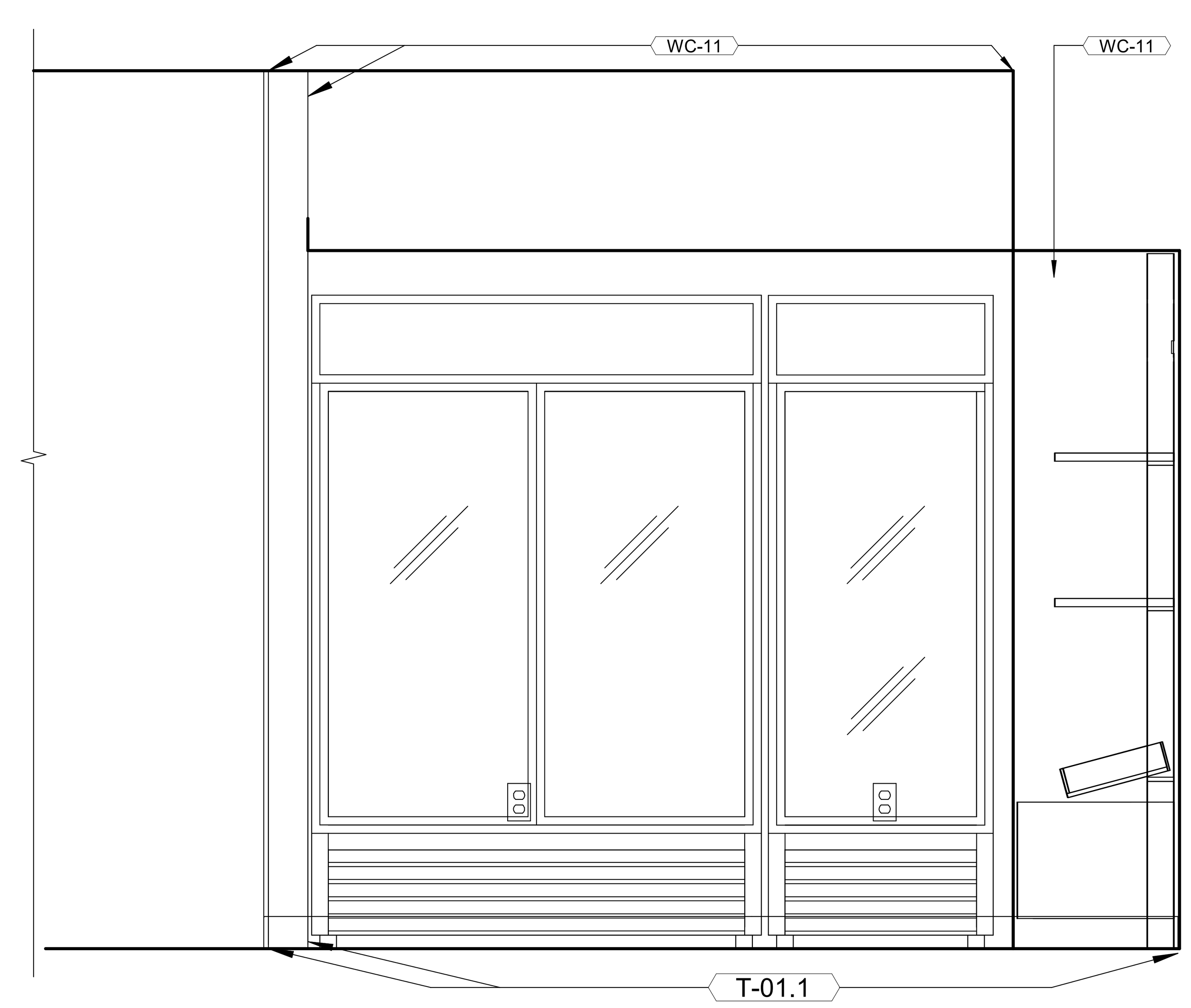
A2 MARKET & RECEPTION - ELEV.
3/4" = 1'-0"



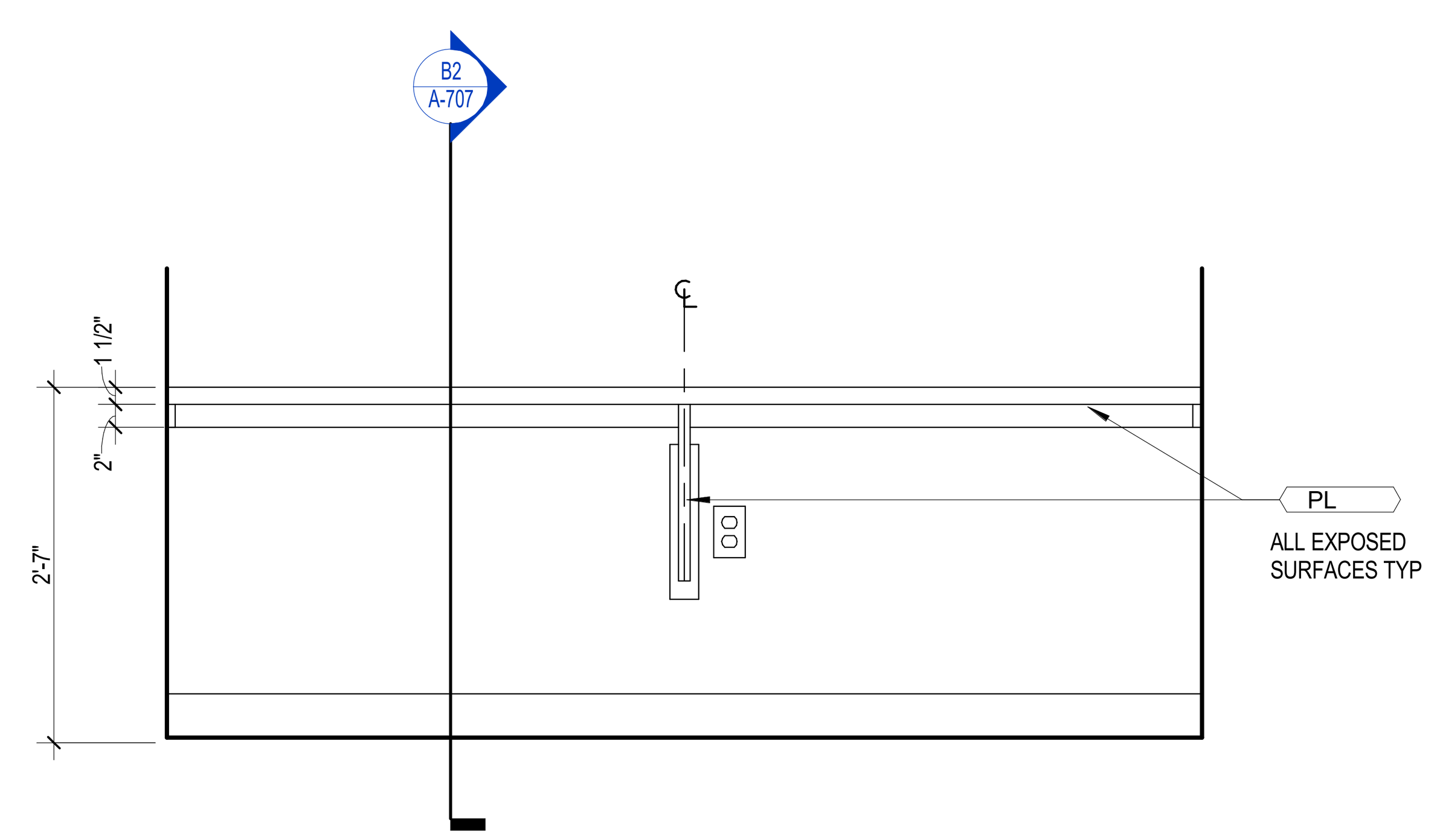
C2 WORKSTATION - ELEV.
3/4" = 1'-0"



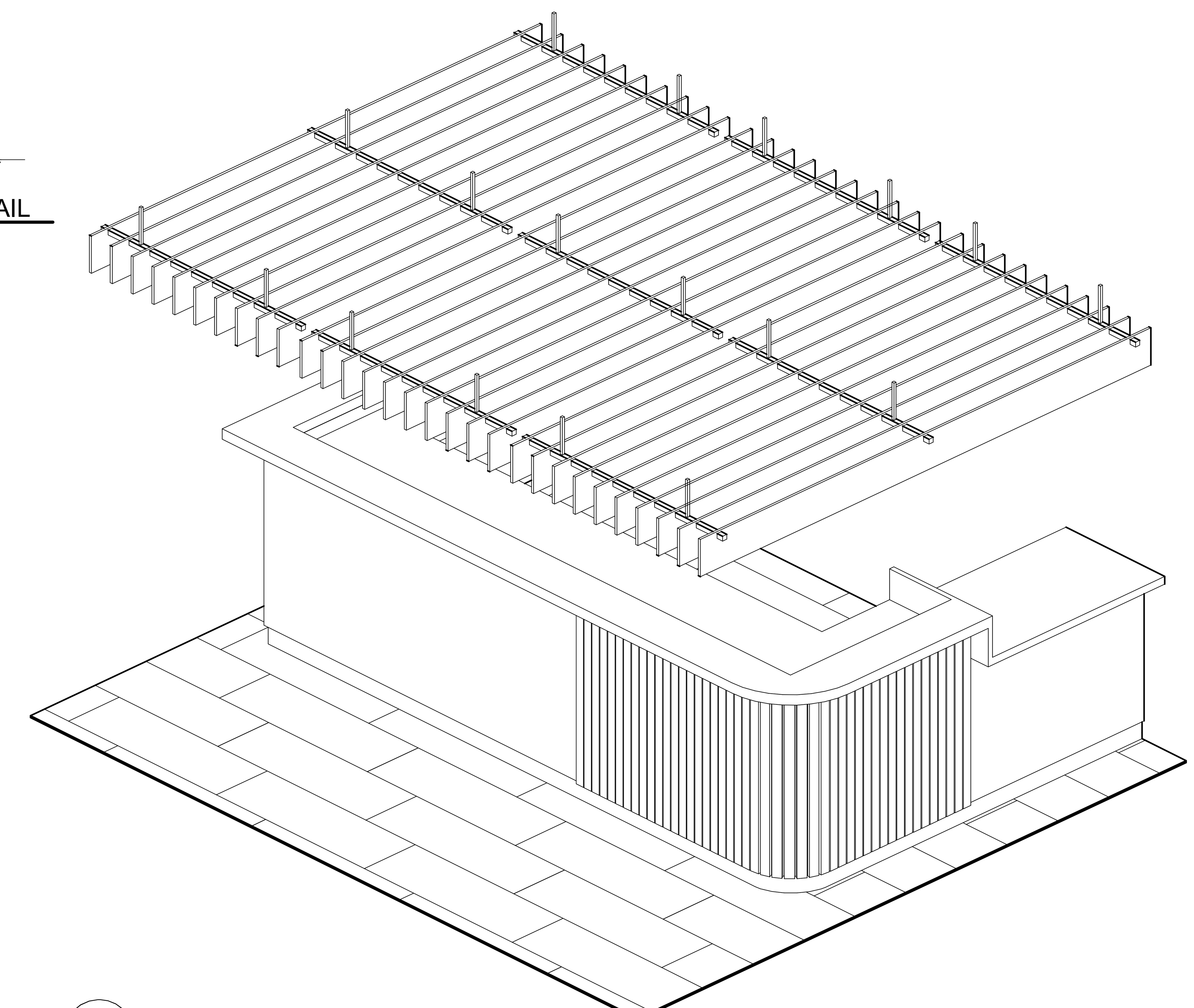
B2 WORK SURFACE - DETAIL
3/4" = 1'-0"



B1 MARKET & RECEPTION - ELEV.
3/4" = 1'-0"



C1 MANAGER WORKSTATION - ELEV.
3/4" = 1'-0"



A1 RECEPTION - 3D
3/4" = 1'-0"

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STATE OF MISSOURI
DAVID EUGENE HENDRIKSE
NUMBER A-7305
REGISTERED ARCHITECT
04/17/2024

HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

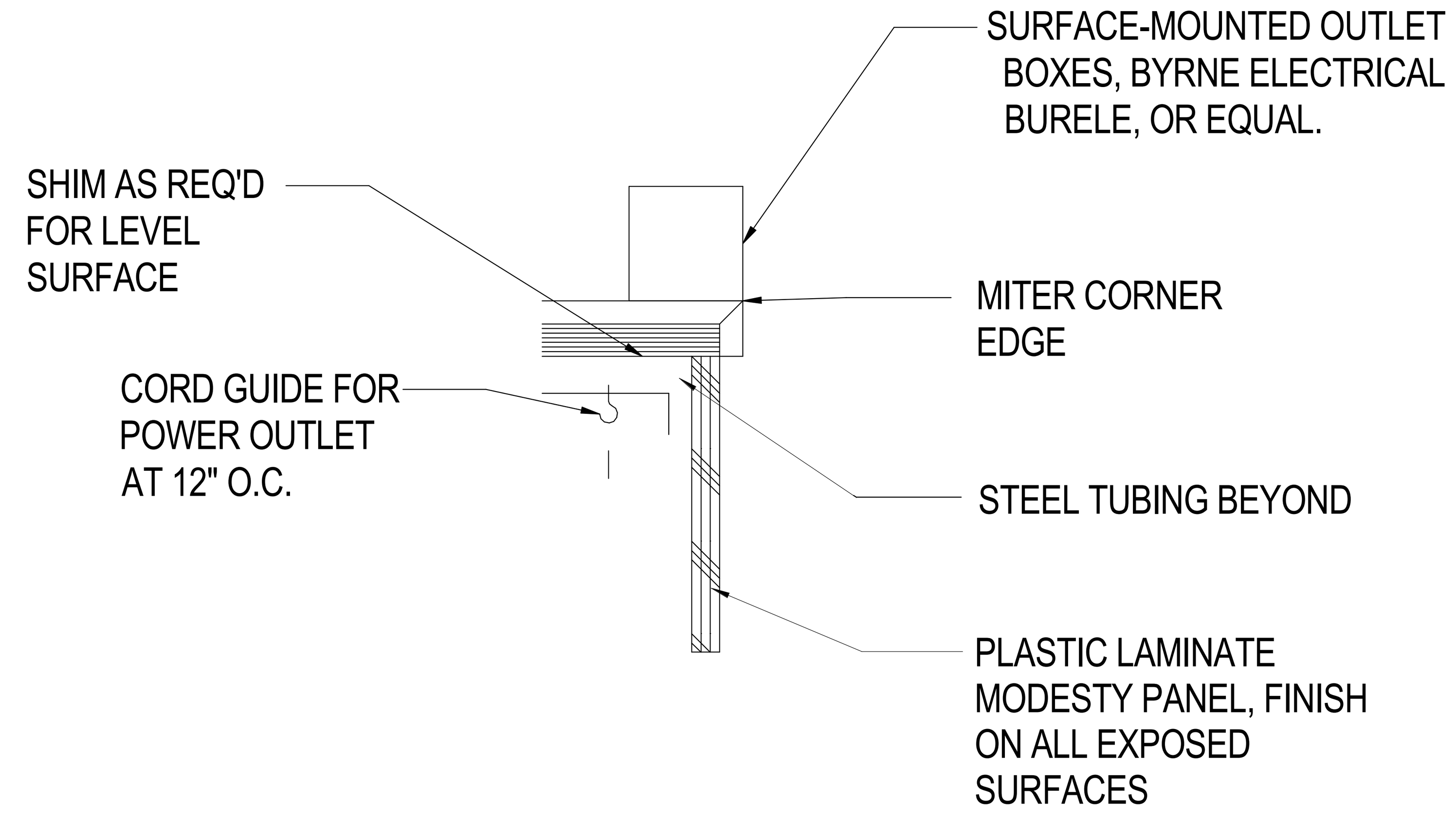
SHEET TITLE
ENLARGED INTERIOR ELEVATIONS

PROJECT NUMBER: 22023

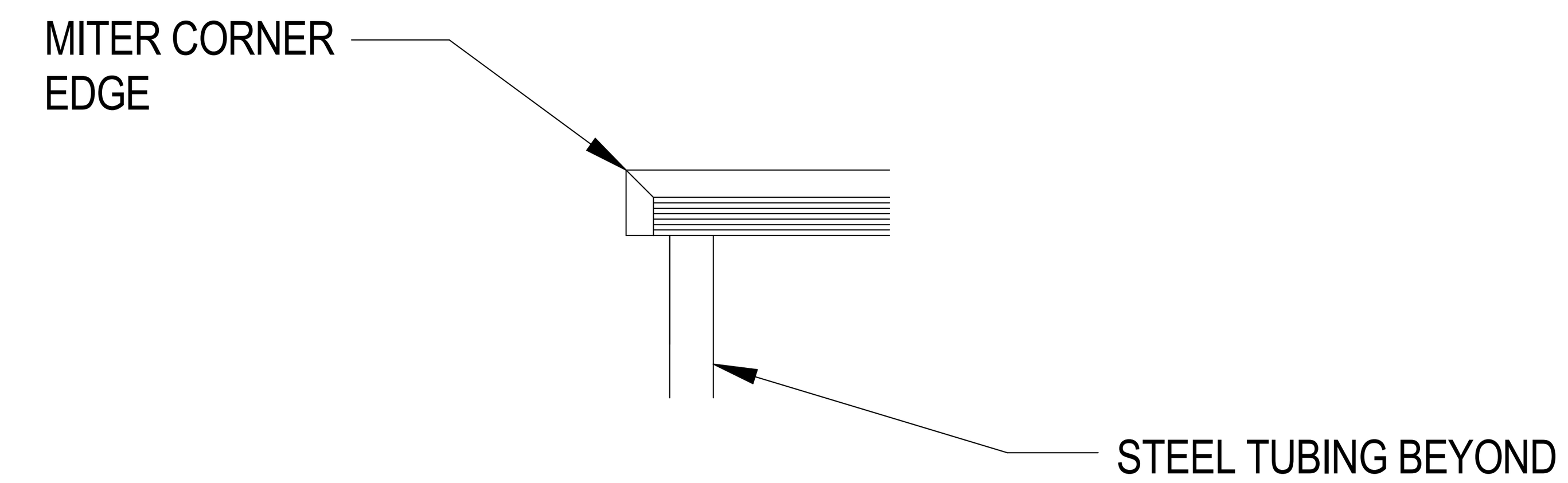
SHEET NUMBER:

A-707

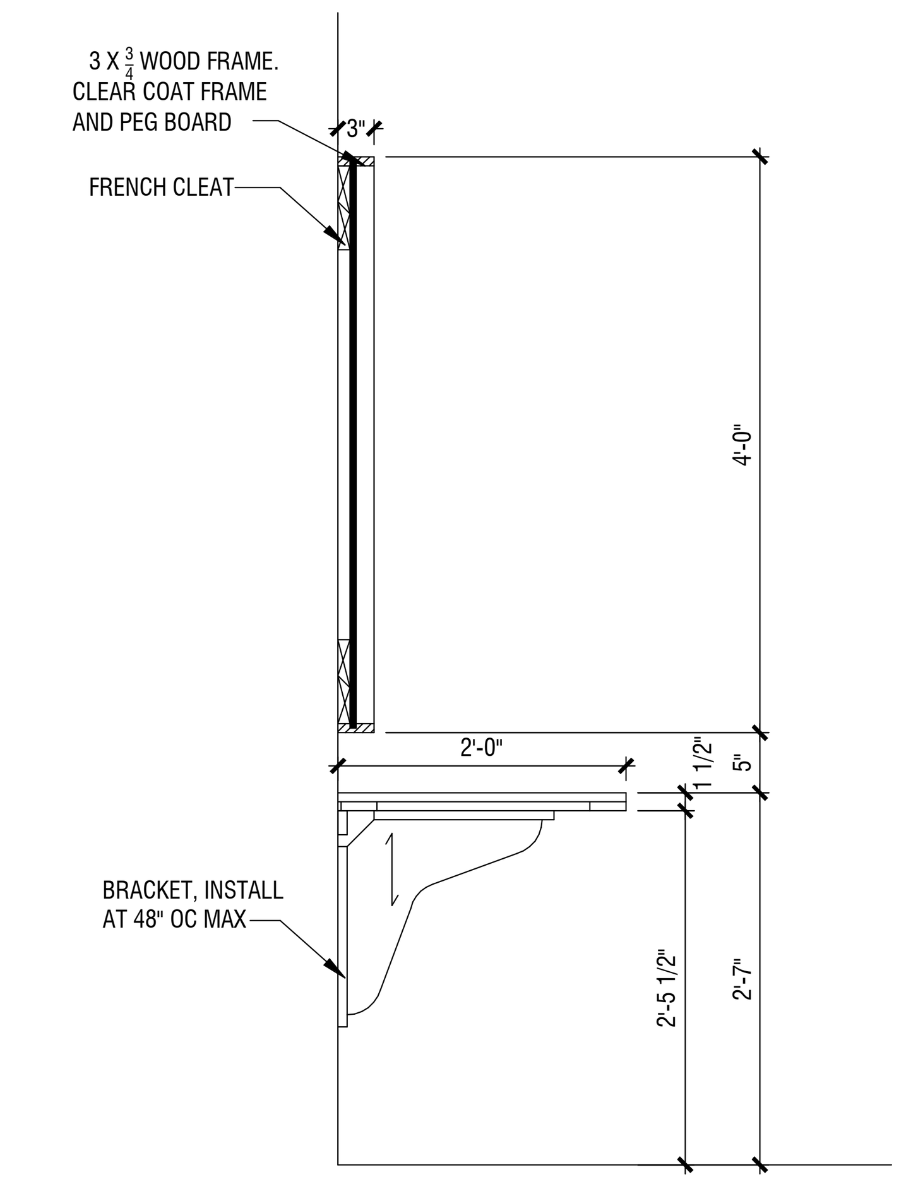
REFERENCE G-003 FOR GENERAL NOTES



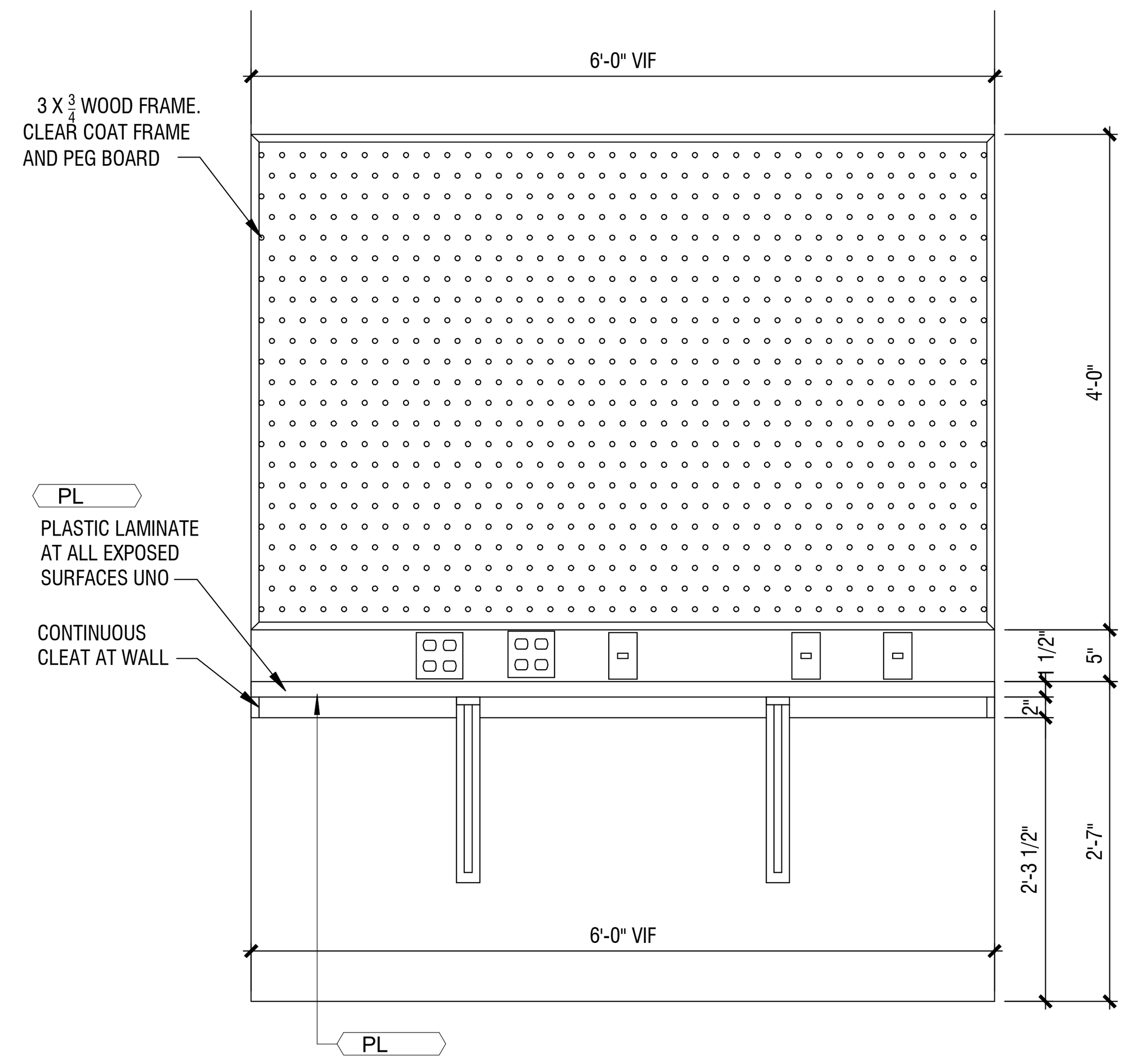
B3 PERCH DETAIL
3" = 1'-0"



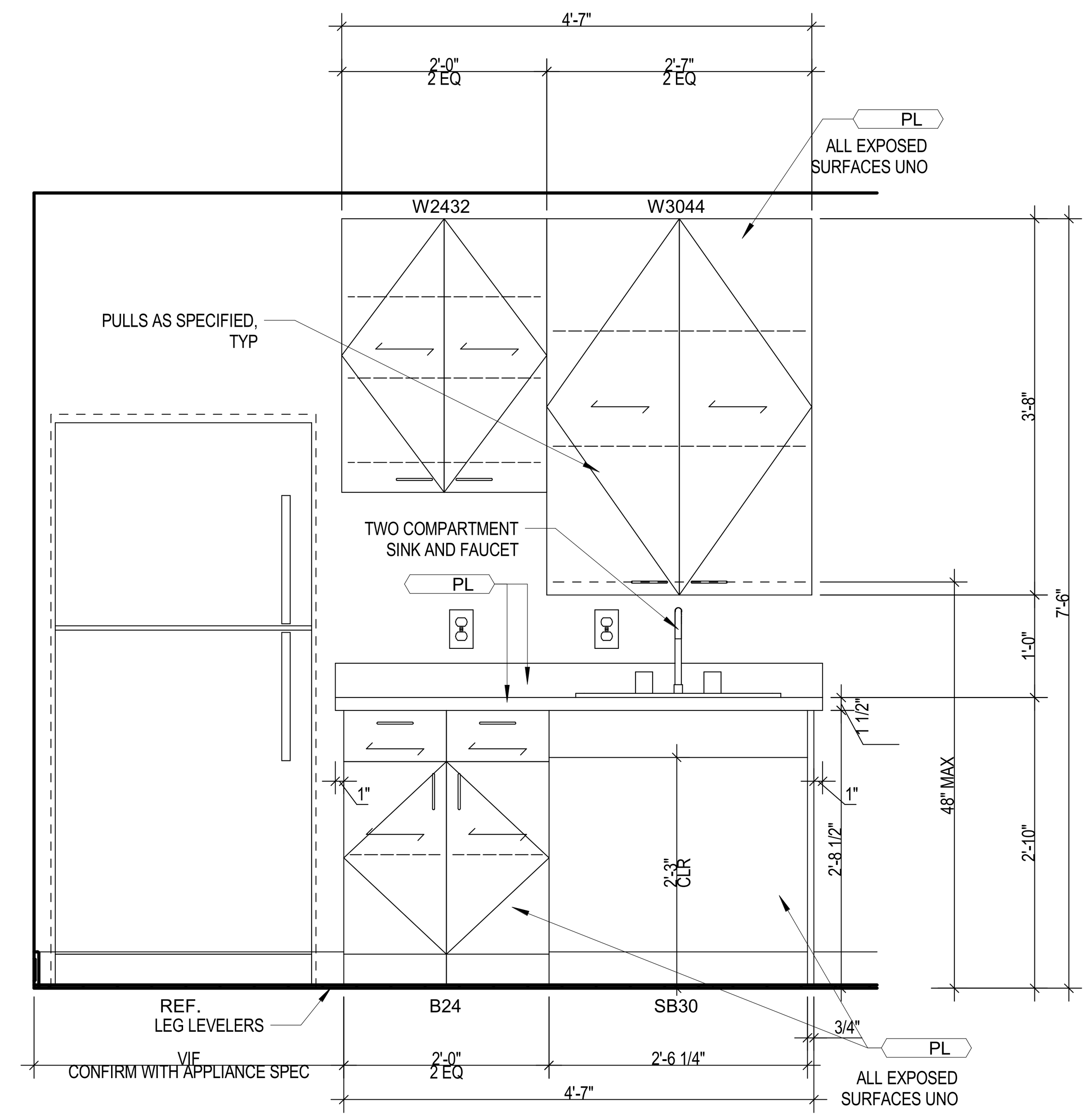
A3 PERCH DETAIL
3" = 1'-0"



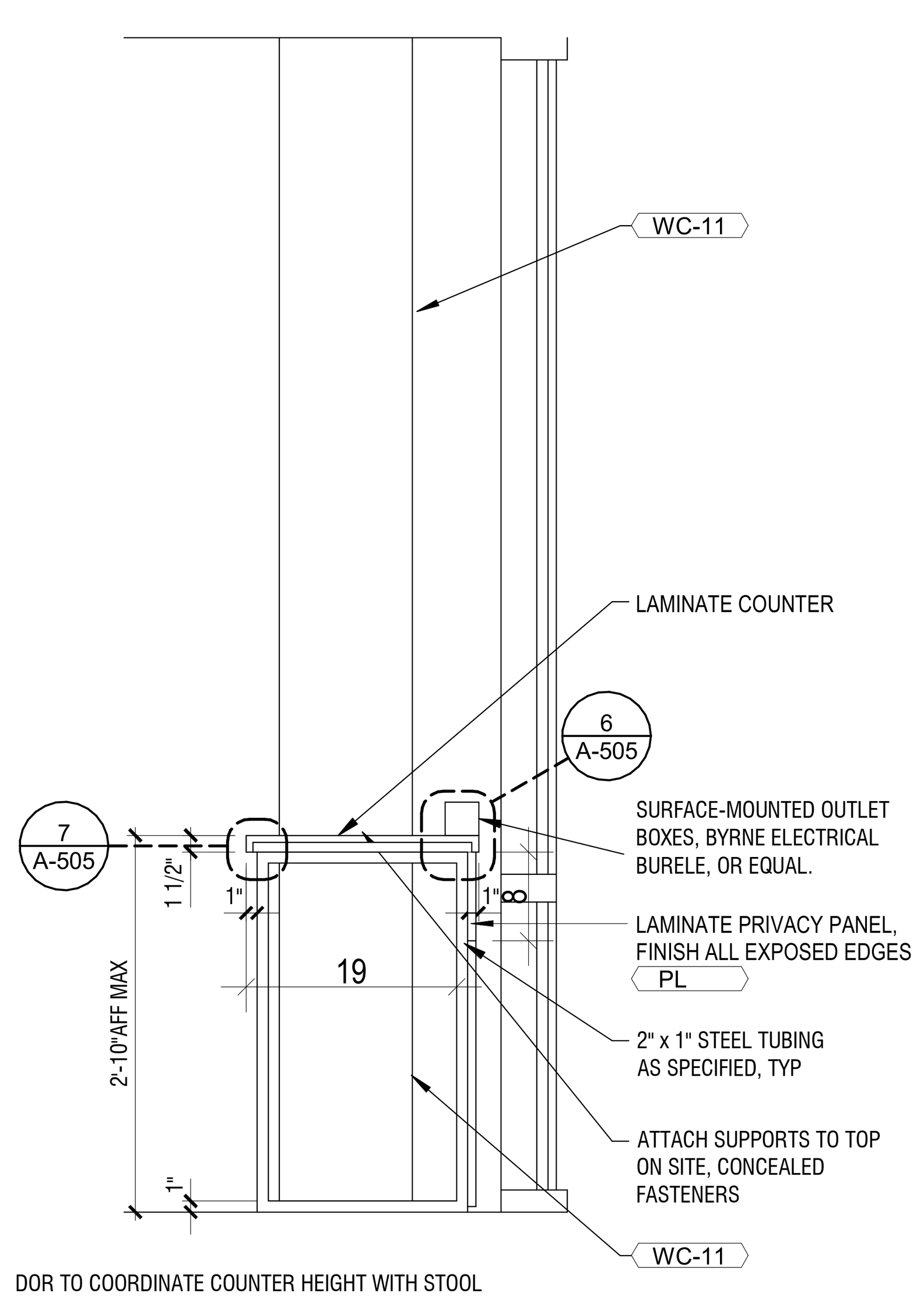
C2 ENGINEER - DETAIL
3/4" = 1'-0"



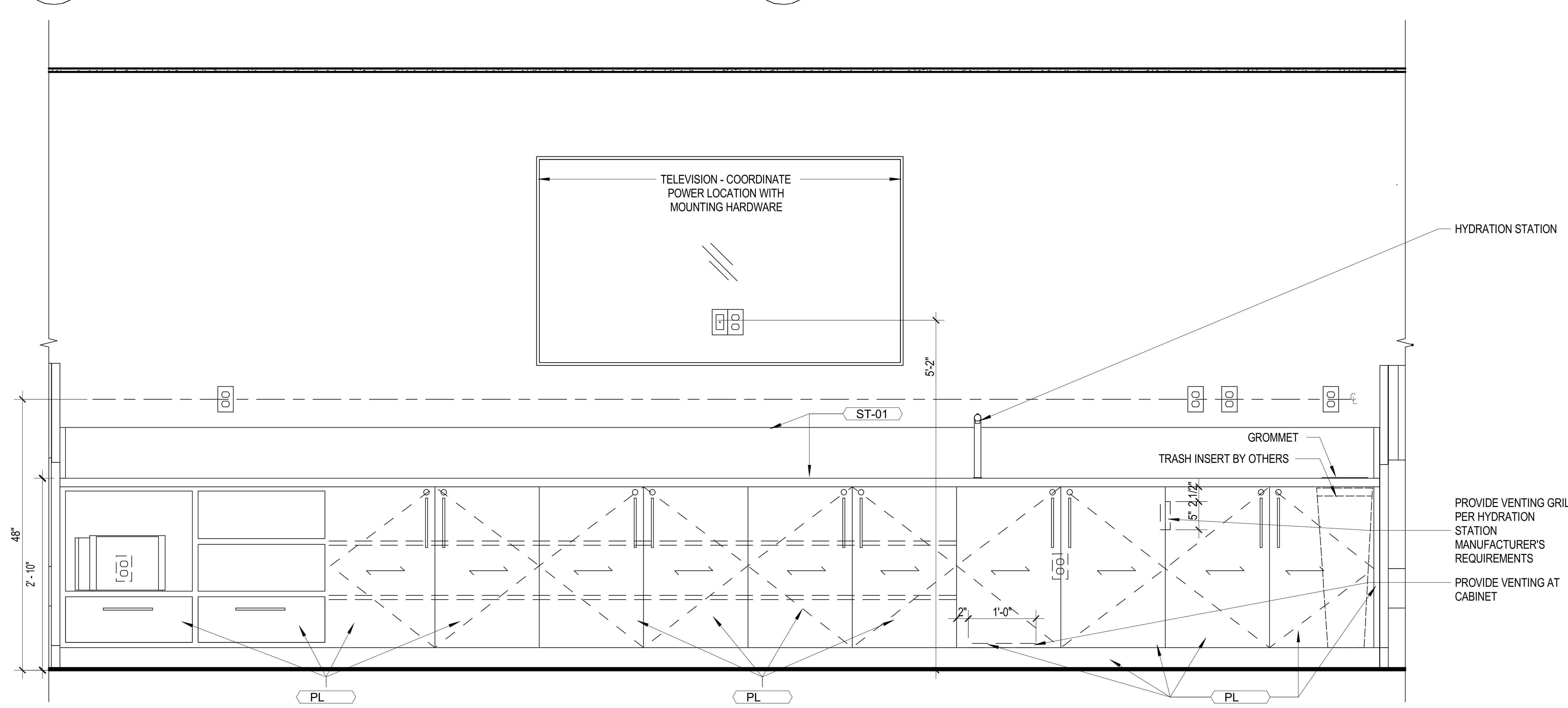
B2 ENGINEER - ELEV.
3/4" = 1'-0"



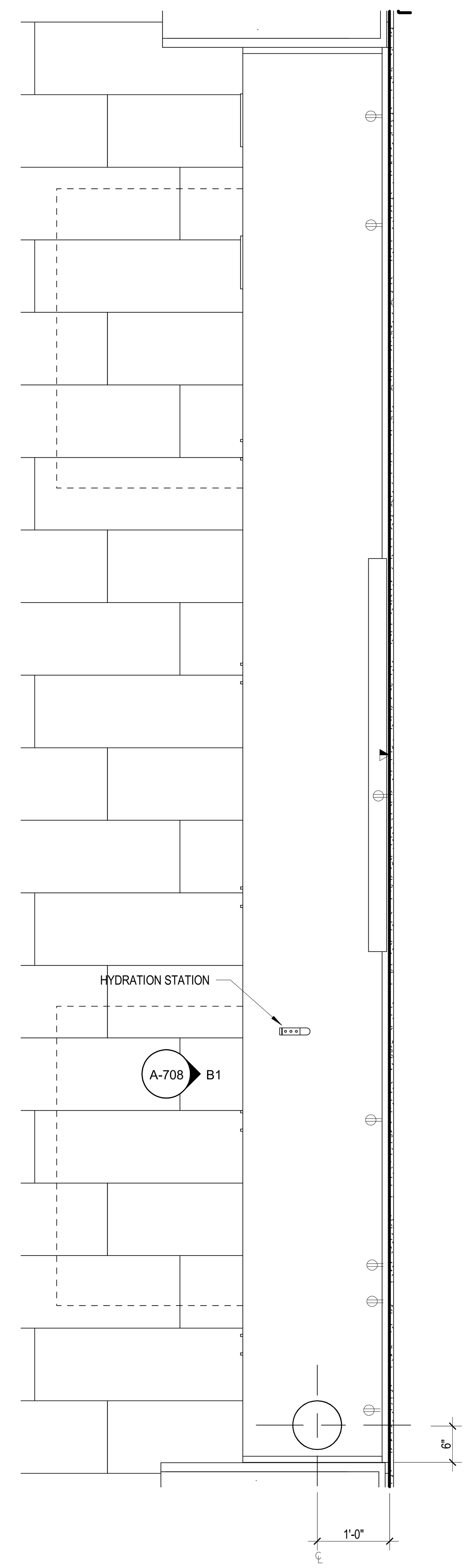
A2 EMPLOYEE BREAKROOM - ELEV. ENLARGED
3/4" = 1'-0"



C1 WINDOW PERCH - SECTION
3/4" = 1'-0"



B1 COFFEE & HYDRATION - ELEV.
3/4" = 1'-0"



A1 COFFEE & HYDRATION - PLAN
3/4" = 1'-0"

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STATE OF MISSOURI
REGISTERED ARCHITECT
04/17/2024

HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

SHEET TITLE
ENLARGED INTERIOR ELEVATIONS
PROJECT NUMBER: 22023
SHEET NUMBER:
A-708

REFERENCE G-003 FOR GENERAL NOTES

FINISH LEGEND

- CPT -- CARPET TILE 24X24
- T-01 -- TILE (2)
- VCT
- T-13 -- QUARRY TILE
- SC -- SEALED CONCRETE
- RB -- RUBBER FLOORING (2)

*NOTE: SEE A-400S UNIT PLANS SHEETS FOR ALL UNIT FINISH PLANS.

A1 FIRST FLOOR PLAN
1/8" = 1'-0"

PRINTS ISSUED
04/17/2024 - CITY SUBMISSION

REVISIONS:
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STATE OF MISSOURI
DAVID EUGENE HENDRICKS
NUMBER A-7305
REGISTERED ARCHITECT
06/14/2024

HOME2 SUITES BY HILTON

LEE'S SUMMIT, MO

SHEET TITLE
FINISH PLANS-COMMON SPACES

PROJECT NUMBER: 22023

SHEET NUMBER:

A-710

REFERENCE G-003 FOR GENERAL NOTES

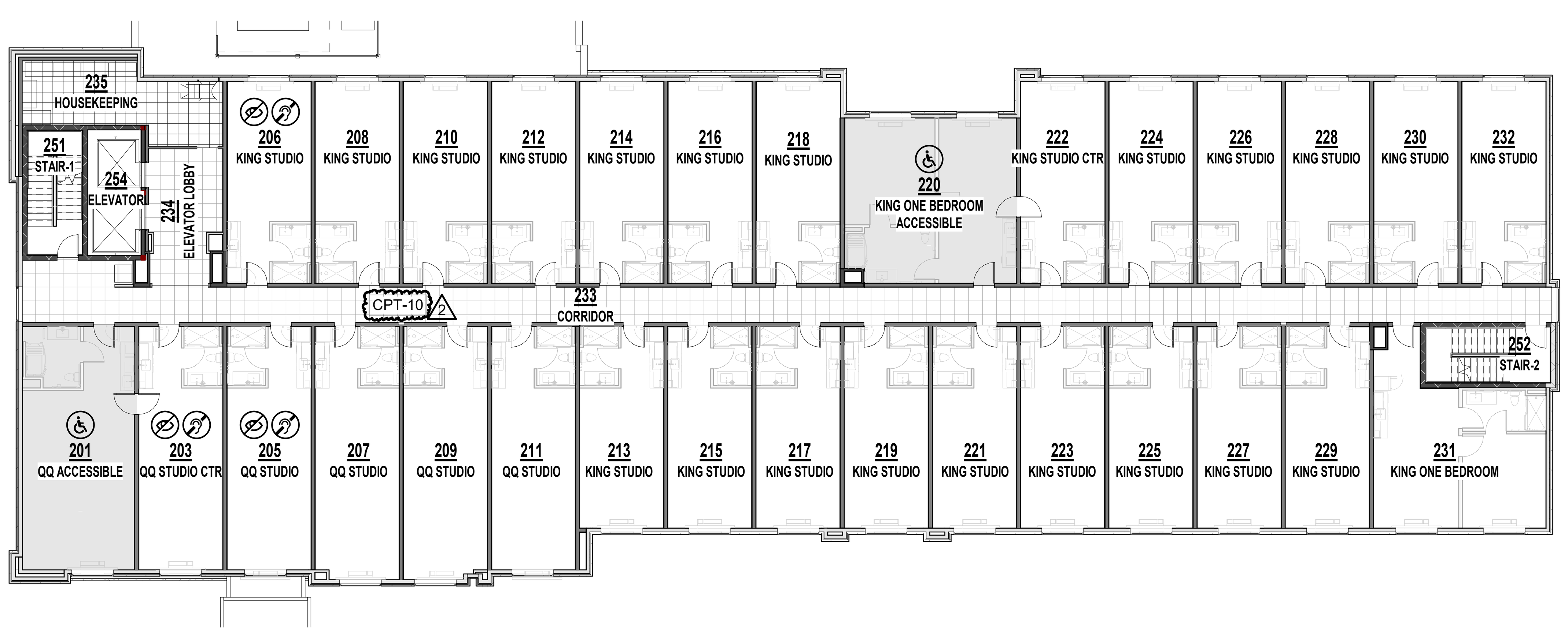
FINISH LEGEND

- CPT -- CARPET TILE 24X24
- T-01 -- TILE
- VCT
- T-13 -- QUARRY TILE
- SC -- SEALED CONCRETE
- RB -- RUBBER FLOORING

*NOTE: SEE A-400S UNIT PLANS SHEETS FOR ALL UNIT FINISH PLANS.

A3 FOURTH FLOOR PLAN
1/16" = 1'-0"

A2 THIRD FLOOR PLAN
1/16" = 1'-0"



A1 SECOND FLOOR PLAN
1/16" = 1'-0"

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06/14/2024

HOME2 SUITES BY HILTON
LEE'S SUMMIT, MO

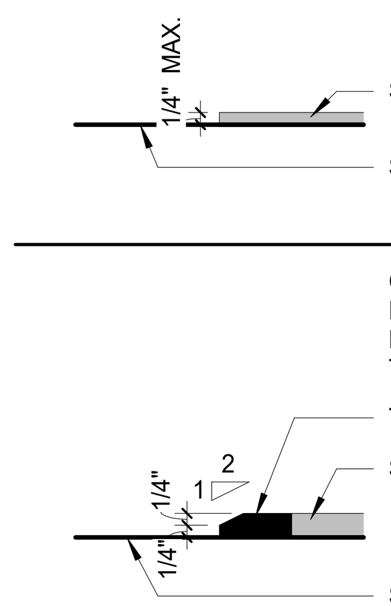
SHEET TITLE
FINISH PLANS-COMMON SPACES

PROJECT NUMBER: 22023

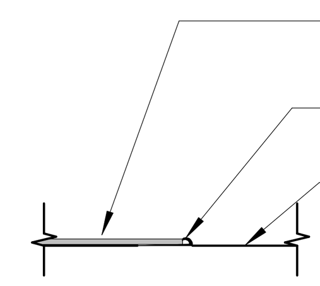
SHEET NUMBER:

A-711

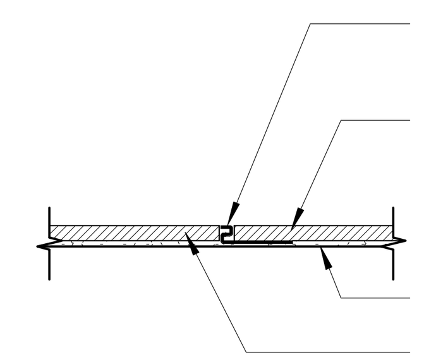
REFERENCE G-003 FOR GENERAL NOTES



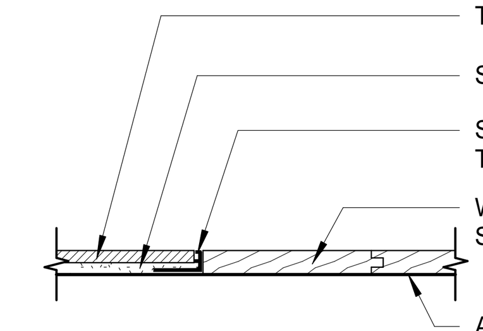
D4 FLOOR FINISH TRANSITION-CHANGE IN LEVEL
SCALE: 3" = 1'-0"



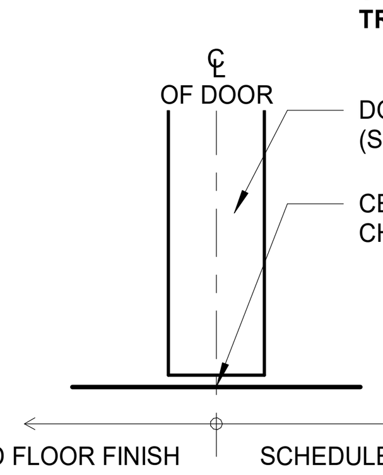
C4 VINYL / CONCRETE TRANSITION
SCALE: 3" = 1'-0"



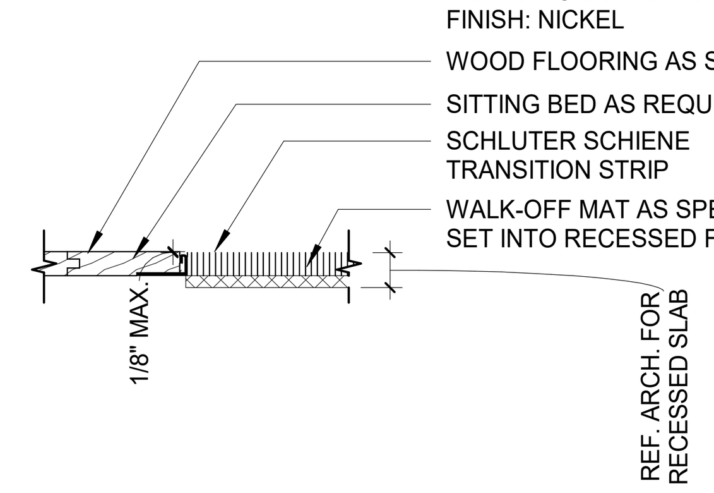
B4 TILE/ TILE TRANSITION
SCALE: 3" = 1'-0"



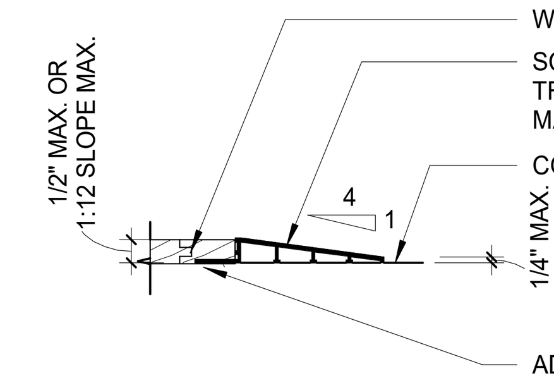
A4 TILE / WOOD TRANSITION
SCALE: 3" = 1'-0"



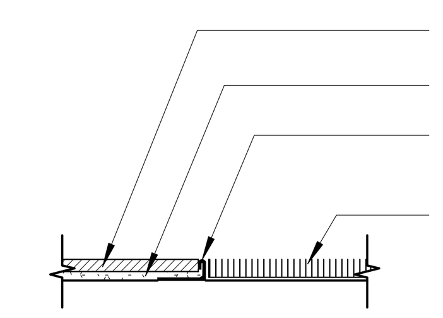
D3 FLOOR FINISH TRANSITION LOCATION
SCALE: 3" = 1'-0"



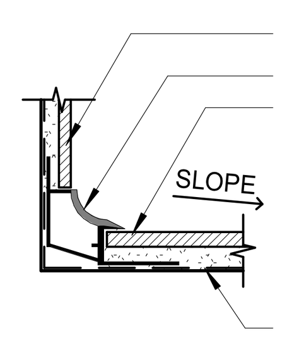
C3 WOOD / WALK-OFF MAT TRANSITION
SCALE: 3" = 1'-0"



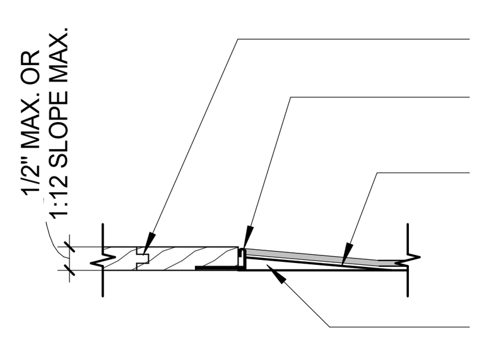
B3 WOOD / CONC. TRANSITION
SCALE: 3" = 1'-0"



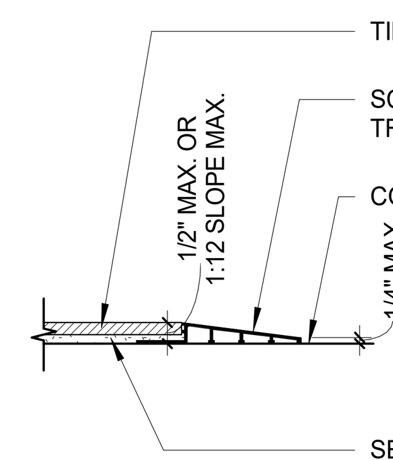
A3 TILE / CARPET TRANSITION
SCALE: 3" = 1'-0"



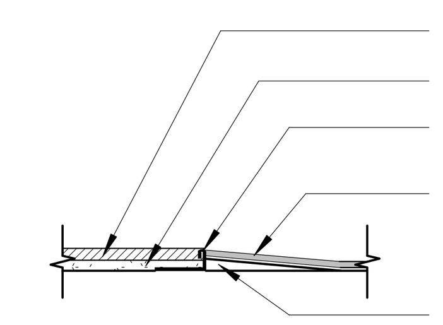
D2 FLOOR TILE TO WALL TILE TRANSITION
SCALE: 3" = 1'-0"



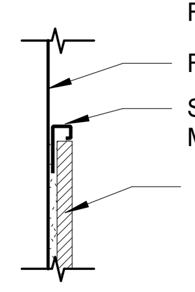
C2 WOOD / VINYL TRANSITION
SCALE: 3" = 1'-0"



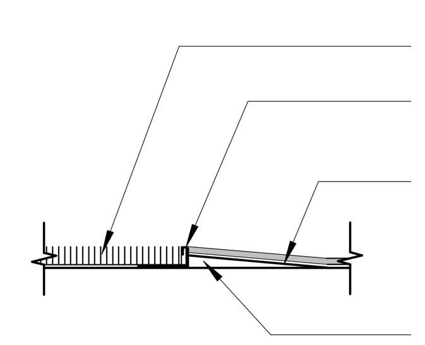
B2 TILE / CONC. TRANSITION
SCALE: 3" = 1'-0"



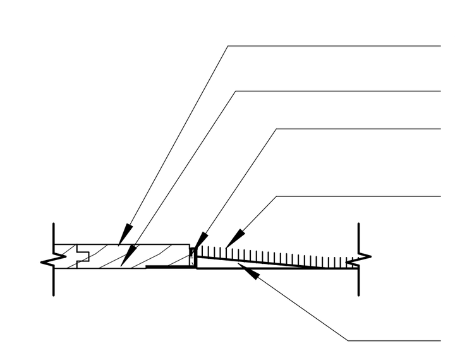
A2 TILE / VINYL TRANSITION
SCALE: 3" = 1'-0"



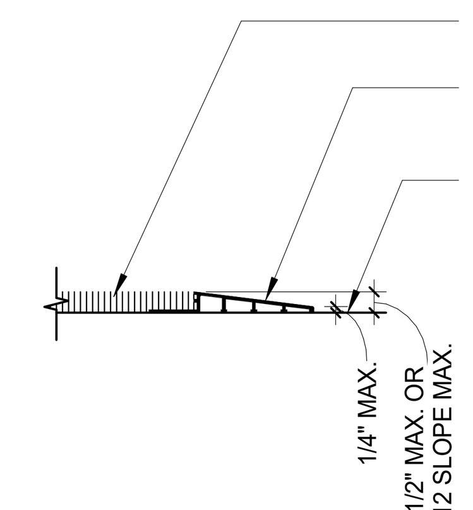
D1 WALL TILE EDGE AT BASE (VERT. & HORIZ.)
SCALE: 3" = 1'-0"



C1 CARPET / VINYL TRANSITION
SCALE: 3" = 1'-0"



B1 WOOD / CARPET TRANSITION
SCALE: 3" = 1'-0"



A1 CARPET / CONC. TRANSITION
SCALE: 3" = 1'-0"

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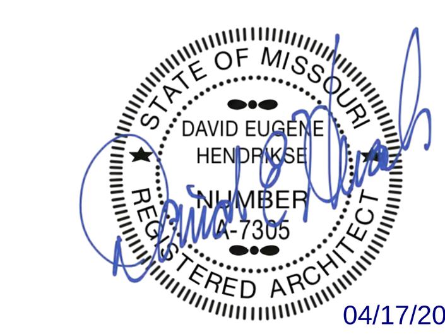


HOME2 SUITES BY HILTON

LEE'S SUMMIT, MO

SHEET TITLE
FINISH TRANSITION DETAILS

PROJECT NUMBER: 22023

SHEET NUMBER:

A-715

4/17/2024 4:54:22 PM

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Home 2 Suites By Hilton

Village at Discovery Park Lot 2
Lee's Summit, MO

GENERAL MEP SPECIFICATIONS

1. GENERAL

1.1. ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH LOCALLY ADOPTED CODES AND ORDINANCES.
1.2. IT IS THE RESPONSIBILITY OF CONTRACTOR TO REVIEW AND UNDERSTAND ALL DRAWINGS AND SPECIFICATIONS IN CONTRACT DOCUMENTS. EACH CONTRACTOR IS RESPONSIBLE FOR ALL WORK ASSOCIATED WITH THEIR TRADE, REGARDLESS OF WHERE WORK IS DEPICTED IN PROJECT DRAWINGS OR SPECIFICATIONS.
1.3. LAYOUT OF SYSTEMS SHOWN ON PLANS ARE APPROXIMATE AND SCHEMATIC IN NATURE. ALL SYSTEMS WILL NEED TO BE FIELD-COORDINATED. CONTRACTOR SHALL INCLUDE THIS COORDINATION IN THEIR SCOPE AND INCLUDE ALL COSTS OF MODIFYING LAYOUT AS REQUIRED IN THEIR BID. PLANS ARE NOT INTENDED TO BE SHOP DRAWINGS FROM WHICH MATERIALS CAN BE ORDERED, FABRICATED, OR INSTALLED WITHOUT ADDITIONAL FIELD MEASUREMENTS AND COORDINATION.
1.4. NOT ALL SPECIFIC PIECES AND COMPONENTS OF EACH SYSTEM ARE DETAILED OR OUTLINED ON PLANS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY PARTS AND LABOR TO PRODUCE A COMPLETE AND FULLY OPERATIONAL SYSTEM UNLESS STATED OTHERWISE ON PLANS. CONTRACTOR IS TO PROVIDE AND INCLUDE ALL EQUIPMENT AND MATERIAL NEEDED TO COMPLETE WORK ASSOCIATED WITH THEIR BID UNLESS ANY ITEMS ARE SPECIFICALLY NOTED ON PLANS AS PROVIDED BY OTHERS. ALL MATERIALS TO BE NEW, FIRST CLASS, AND INSTALLED PER MANUFACTURER'S PUBLISHED INSTRUCTIONS.
1.5. WHERE CONFLICTS EXIST BETWEEN MEP PLANS AND CIVIL, ARCHITECTURAL, OR STRUCTURAL PLANS, NOTIFY MEP ENGINEER OF DISCREPANCIES FOR CLARIFICATION PRIOR TO PERFORMING ANY WORK THAT MAY CONTRADICT INFORMATION ELSEWHERE IN THE PROJECT PLANS.
1.6. THESE PLANS ARE NOT TO BE SCALED. SEE ARCHITECTURAL PLANS FOR DIMENSIONS. WHERE THERE IS A CONFLICT BETWEEN ARCHITECTURAL DIMENSIONS AND MEP DIMENSIONS, ARCHITECTURAL SHALL GOVERN.
1.7. CONTRACTOR IS TO INCLUDE IN THEIR SCOPE THE COST OF ALL PERMITS, INSPECTIONS, METERING, TAPS, ETC. ASSOCIATED WITH THEIR WORK.
1.8. CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION, CUTTING, CORING, PATCHING, AND BACKFILL REQUIRED TO COMPLETE THEIR WORK, UNLESS NOTED OTHERWISE ON PLANS.
1.9. SPECIFIC EQUIPMENT MANUFACTURERS AND/OR MODEL NUMBERS LISTED ON PLANS ARE TO ESTABLISH A BASIS-OF-DESIGN FOR QUALITY AND PERFORMANCE, VERIFY THAT SUBSTITUTIONS WILL BE ACCEPTABLE PRIOR TO PURCHASE & INSTALLATION.
1.10. NOTIFY ENGINEER OF ANY MAJOR PLAN DISCREPANCIES OR CONFLICTS PRIOR TO PROVIDING BIDS OR COMPLETING ANY WORK.
1.11. SEE DISCIPLINE SHEETS FOR ADDITIONAL TRADE SPECIFIC SPECIFICATIONS.
1.12. WHERE SHUTDOWN OF ANY EXISTING UTILITY OR SERVICE TO BUILDING IS REQUIRED FOR COMPLETION OF WORK, COORDINATE OUTAGE WITH OWNER AS TO NOT DISRUPT TYPICAL OPERATIONS.

2. WORKMANSHIP

2.1. SYSTEMS SHALL BE INSTALLED IN A FIRST-CLASS MANNER USING BEST ACCEPTABLE METHODS AND PRACTICES.
2.2. ALL SYSTEMS SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO BUILDING ORIENTATION. COMPONENTS SHALL BE INSTALLED LEVEL AND PLUMB WITH ATTENTION GIVEN TO OVERALL AESTHETICS.
2.3. CONTRACTOR IS RESPONSIBLE FOR COORDINATING EQUIPMENT LOCATIONS AND SYSTEM ROUTING WITH OTHER TRADES PRIOR TO INSTALLATION.
2.4. CONTRACTOR TO GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE THE COMPLETED PROJECT IS RELEASED TO THE OWNER, UNLESS NOTED OTHERWISE ON PLANS.
2.5. DURING INSTALLATION OF MATERIALS OR ACTIVITIES IN NEW WORK SCOPE, AVOID DAMAGING EXISTING SURFACES AND EQUIPMENT TO REMAIN. ANY DAMAGE TO EXISTING SURFACES OR EQUIPMENT SHALL BE CORRECTED AT NO COST TO OWNER.

DEFERRED SUBMITTAL NOTES

1. FIRE ALARM SYSTEM

1.1. FIRE ALARM SYSTEM COMPONENTS SHOWN (IF APPLICABLE) ARE GENERAL AND SCHEMATIC IN NATURE, SHOWN FOR APPROXIMATE ROUGH-IN LOCATIONS AND QUANTITIES ONLY. CONTRACTOR TO VERIFY EXACT DEVICE LOCATIONS AND REQUIREMENTS WITH FIRE ALARM SYSTEM DESIGNER OF RECORD PRIOR TO ROUGH-IN.
1.2. FIRE ALARM CONTRACTOR SHALL PROVIDE DEFERRED SUBMITTAL PACKAGE FOR FIRE ALARM SYSTEM. SUBMITTAL SHALL INCLUDE BATTERY CALCULATIONS, VOLTAGE DROP CALCULATIONS, EQUIPMENT SPECIFICATIONS FOR DEVICES AND PANELS, ETC. DESIGN SHALL BE SEALED BY A QUALIFIED DESIGN PROFESSIONAL LICENSED BY THE STATE.

2. FIRE SPRINKLER SYSTEM

2.1. WHERE COMBINED FIRE & DOMESTIC WATER SUPPLY LINES ARE SHOWN ON PLANS, INSTALLING CONTRACTOR SHALL VERIFY WITH FIRE SPRINKLER CONTRACTOR THAT INCOMING LINE SIZE IS ADEQUATE FOR FIRE SUPPRESSION SYSTEM.
2.2. FIRE SPRINKLER CONTRACTOR TO PROVIDE DEFERRED SUBMITTAL PACKAGE FOR FIRE SPRINKLER SYSTEM. SUBMITTAL SHALL INCLUDE HYDRAULIC CALCULATIONS AND SPRINKLER SYSTEM DRAWINGS SEALED BY A QUALIFIED DESIGN PROFESSIONAL LICENSED BY THE STATE.

REFERENCED CODES IN EFFECT

PROJECT HAS BEEN DESIGNED IN COMPLIANCE WITH THE FOLLOWING CODES LISTED BELOW, BUT THIS IS NOT AN EXHAUSTIVE LIST. PROJECT SHALL COMPLY WITH ALL APPLICABLE CODES, STANDARDS, AND LOCAL REQUIREMENTS.

- 2018 INTERNATIONAL MECHANICAL CODE
- 2018 INTERNATIONAL PLUMBING CODE
- 2018 INTERNATIONAL FUEL GAS CODE
- 2018 INTERNATIONAL FIRE CODE
- 2017 NATIONAL ELECTRIC CODE

FIRE RATED PENETRATION NOTES

- THIS BUILDING CONTAINS FIRE RATED ASSEMBLIES. SEE ARCHITECTURAL PLANS FOR LOCATIONS AND DETAILS.
- A UL-LISTED FIRESTOP SYSTEM SHALL BE INSTALLED AT EACH PENETRATION OF A HORIZONTAL OR VERTICAL RATED ASSEMBLY IN ACCORDANCE WITH ASTM E814 OR UL 1479.
- EACH CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROTECTION FOR THEIR PENETRATIONS THRU RATED ASSEMBLIES.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING A CATALOG OF ALL UL LISTED FIRESTOP ASSEMBLIES, AND KEEPING A PHYSICAL COPY OF DETAILS FOR EACH USED FIRESTOP ASSEMBLY ON SITE FOR REFERENCE.

Sheet List Table

STATE OF MISSOURI
JAMES P. WATSON
NUMBER PE-2015017071
PROFESSIONAL ENGINEER

James Watson, P.E. April 17, 2024
PE-2015017071
MO Certificate of Authority # 2018029680

J-SQUARED ENGINEERING
2400 Bluff Creek Drive, Suite 101
Columbia, Missouri 65201
573.234.4492
www.j-squaredeng.com

J2 PROJECT No: J21005
J2 DESIGN: ACW

ISSUE TITLE	DATE
CITY SUBMISSION	04 / 17 / 2024

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:
Home 2 Suites By Hilton
Village at Discovery Park Lot 2
Lee's Summit, MO

AHJ APPROVAL STAMP

SHEET TITLE
MECHANICAL ELECTRICAL PLUMBING COVER SHEET

SHEET NUMBER
MEP1

SITE PLAN SYMBOL LEGEND

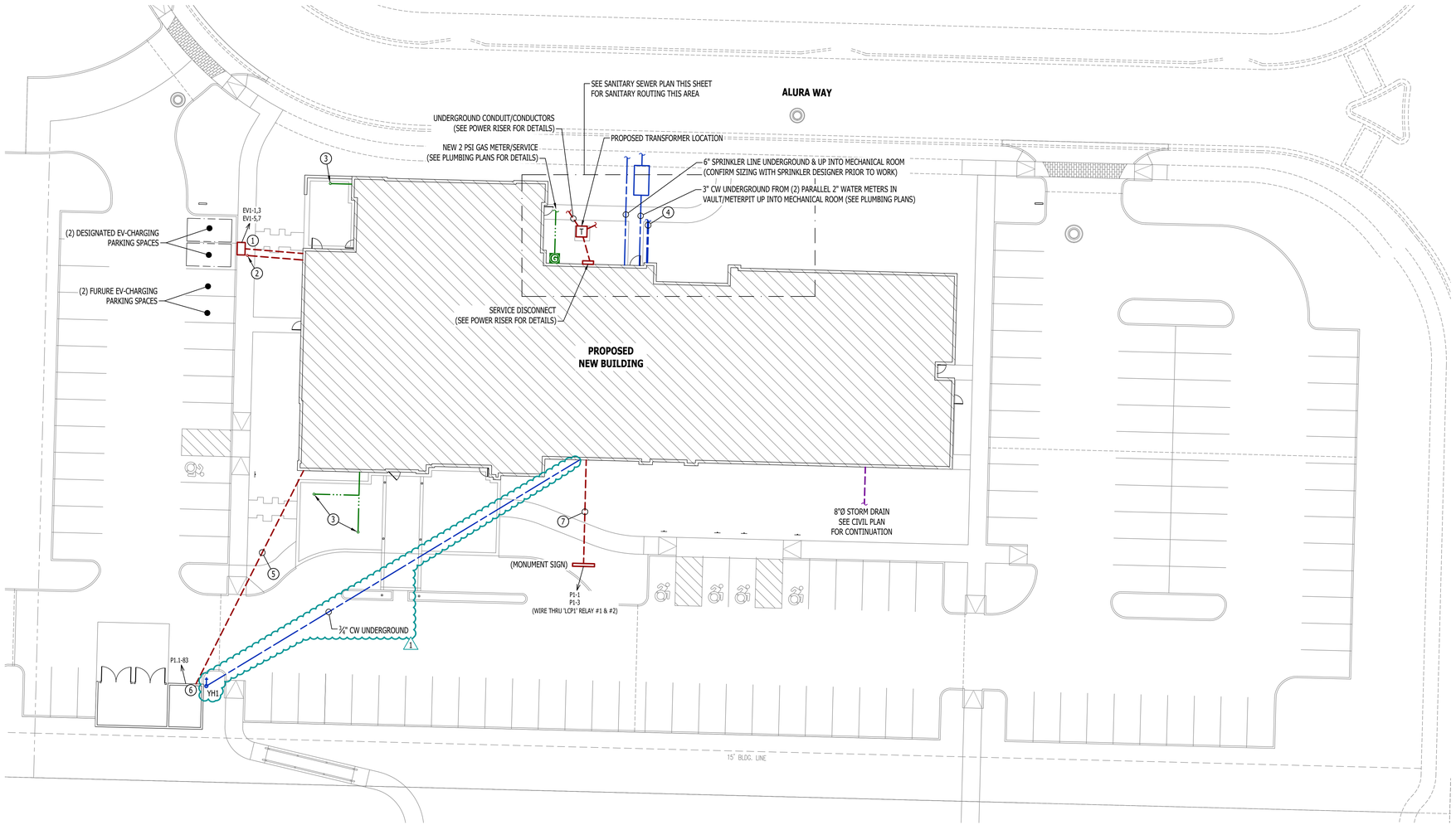
- SANITARY SEWER PIPING
- COLD WATER LINE
- WATER METER
- VALVE
- GAS LINE
- GAS METER
- TIE INTO EXISTING
- ELECTRIC
- PX-XX — CIRCUIT TAG

SITE UTILITIES PLAN GENERAL NOTES:

1. REFER TO CIVIL PLANS FOR EXACT UTILITY LOCATIONS, CONNECTIONS, DETAILS, ETC.

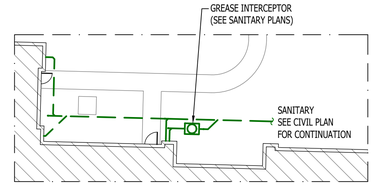
SITE UTILITIES PLAN KEY NOTES:

1. PROVIDE & INSTALL LEVEL-2, DUAL-STATION, EV-CHARGING SYSTEM EQUAL TO JUICEBAR GEN-3 #JB3.0-402; COORDINATE EXACT LOCATION & REQUIREMENTS WITH OWNER.
2. PROVIDE & INSTALL (2) 3" SPARE CONDUITS (EACH WITH PULL-STRING) FROM PANEL 'EV1' LOCATION TO GREEN-SPACE NEAR EV-CHARGING AREA FOR FUTURE USE.
3. ¾" UNDERGROUND GAS PIPING UP TO GRILL/FIREPIT. TOTAL ESTIMATED LOAD AT EACH GRILL/FIREPIT = 200kBTU. SEE PLUMBING PLANS FOR DETAILS.
4. (2) 2" SLEEVES BELOW GRADE FROM MECHANICAL ROOM TO IRRIGATION METER FOR CONTROLS. COORDINATE WITH IRRIGATION CONTRACTOR.
5. 1" CONDUIT WITH (2) #10 CU. & (1) #10 CU. EQ. GRD.
6. PROVIDE & INSTALL (1) WEATHERPROOF GFCI RECEPTACLE & (1) 'S1' LIGHT FIXTURE IN ENCLOSED STORAGE AREA.
7. 1" CONDUIT WITH (4) #10 CU. & (2) #10 CU. EQ. GRD. FOR (2) MONUMENT SIGN CIRCUITS. COORDINATE EXACT REQUIREMENTS & DETAILS WITH SIGNAGE SUPPLIER/INSTALLER.



SITE UTILITIES PLAN

SCALE: 1" = 20 ft



SITE UTILITIES PLAN - SANITARY SEWER

SCALE: 1" = 20 ft

STATE OF MISSOURI
JAMES P. WATSON
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James Watson, P.E. May 17, 2024
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J2 PROJECT No:	J21005
J2 DESIGN:	ACW

ISSUE TITLE	DATE
CITY SUBMISSION	04 / 17 / 2024
REVISION 1 - CITY RESPONSE	05 / 17 / 2024

1

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Home 2 Suites By Hilton

Village at Discovery Park Lot 2
Lee's Summit, MO

AHJ APPROVAL STAMP

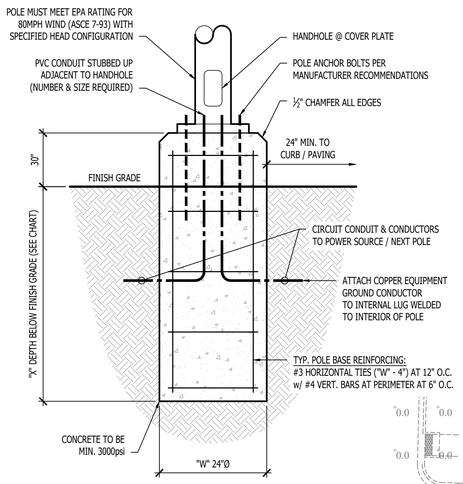
SHEET TITLE

SITE UTILITIES PLAN

SHEET NUMBER

MEP2

POLE HEIGHT	"X" DEPTH
10ft - 14ft	4'-6"
15ft - 20ft	6'-0"
21ft - 25ft	7'-0"
26ft - 30ft	8'-0"



TYP. LIGHT POLE DETAIL - 1

SITE LIGHTING FIXTURE SCHEDULE

TAG	MANUFACTURER (OR EQUAL)	MODEL NUMBER (OR EQUAL)	DESCRIPTION	MOUNTING	LUMEN OUTPUT	CCT (°K)	CRI	VOLTS	WATTS	NOTES
PL1	LUMARK	PRV-XL-PA4B-740-U-5WQ	POLE LIGHT	20' POLE ON 30" BASE	40,868	4000	70	208	303	WITH 20' #SSS POLE
PL2	LUMARK	PRV-XL-PA4B-740-U-T4W-HSS	POLE LIGHT	20' POLE ON 30" BASE	39,057	4000	70	208	303	WITH 20' #SSS POLE

NOTES:
1. VERIFY LIGHT FIXTURE FINISHES WITH OWNER / ARCHITECT PRIOR TO ORDERING.

SITE LIGHTING PLAN SYMBOL LEGEND

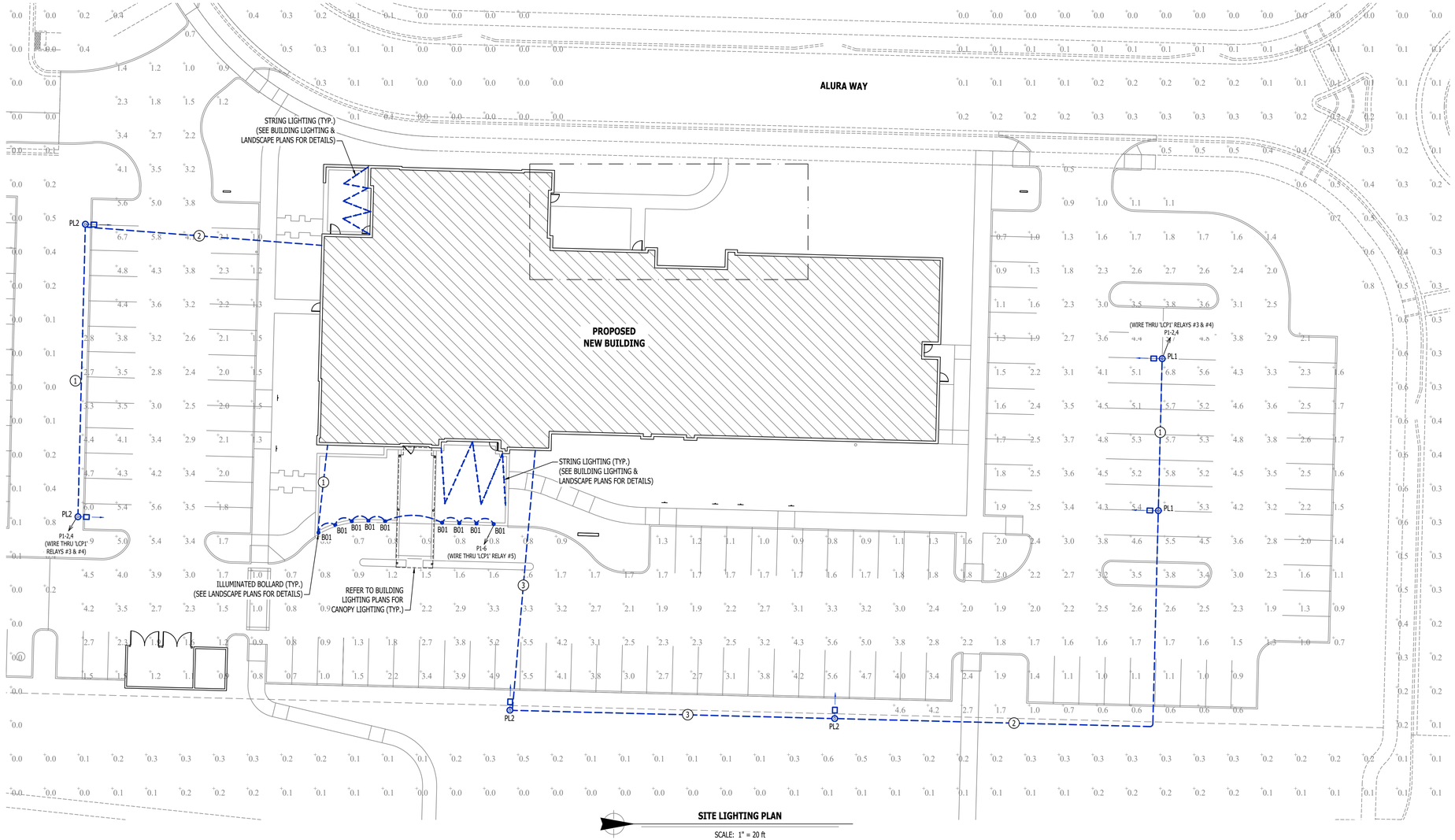
- CIRCUIT WIRING
- PX-XX — CIRCUIT TAG
- X1 — "X1" INDICATES FIXTURE TYPE (REFER TO SCHEDULE)
- POLE LIGHT
- ARROW INDICATES FORWARD AIMING DIRECTION
- 1.1 — PHOTOMETRIC CALCULATIONS (IN FOOT-CANDLES)

SITE LIGHTING PLAN GENERAL NOTES:

1. SITE PHOTOMETRIC VALUES SHOWN HAVE BEEN CALCULATED PER SPECIFIED LIGHT FIXTURES AT INDICATED MOUNTING HEIGHTS. ANY CHANGES OR ALTERATIONS TO LIGHTING LAYOUT SHOWN WILL REQUIRE RECALCULATING SITE PHOTOMETRICS AND WILL THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR / EQUIPMENT SUPPLIER.
2. PHOTOMETRIC CALCULATIONS SHOWN DO NOT INCLUDE EXISTING LIGHT FIXTURE(S), ONLY NEW POLE LIGHT FIXTURE(S) SHOWN.
3. SEE SHEET EL101 & EL111 FOR BUILDING MOUNTED EXTERIOR LIGHT FIXTURE CIRCUITING AND
4. ADDITIONAL DETAILS.

SITE LIGHTING PLAN KEY NOTES:

1. 1" CONDUIT WITH (2) #10 CU. & (1) #10 CU. EQ. GRD.
2. 1" CONDUIT WITH (2) #8 CU. & (1) #8 CU. EQ. GRD.
3. 1" CONDUIT WITH (2) #6 CU. & (1) #6 CU. EQ. GRD.



SITE LIGHTING PLAN

SCALE: 1" = 20 ft

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MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Home 2 Suites By Hilton

Village at Discovery Park Lot 2
Lee's Summit, MO

AHJ APPROVAL STAMP

SHEET TITLE

SITE LIGHTING PLAN

SHEET NUMBER

MEP3

ROOF MEP PLAN SYMBOL LEGEND

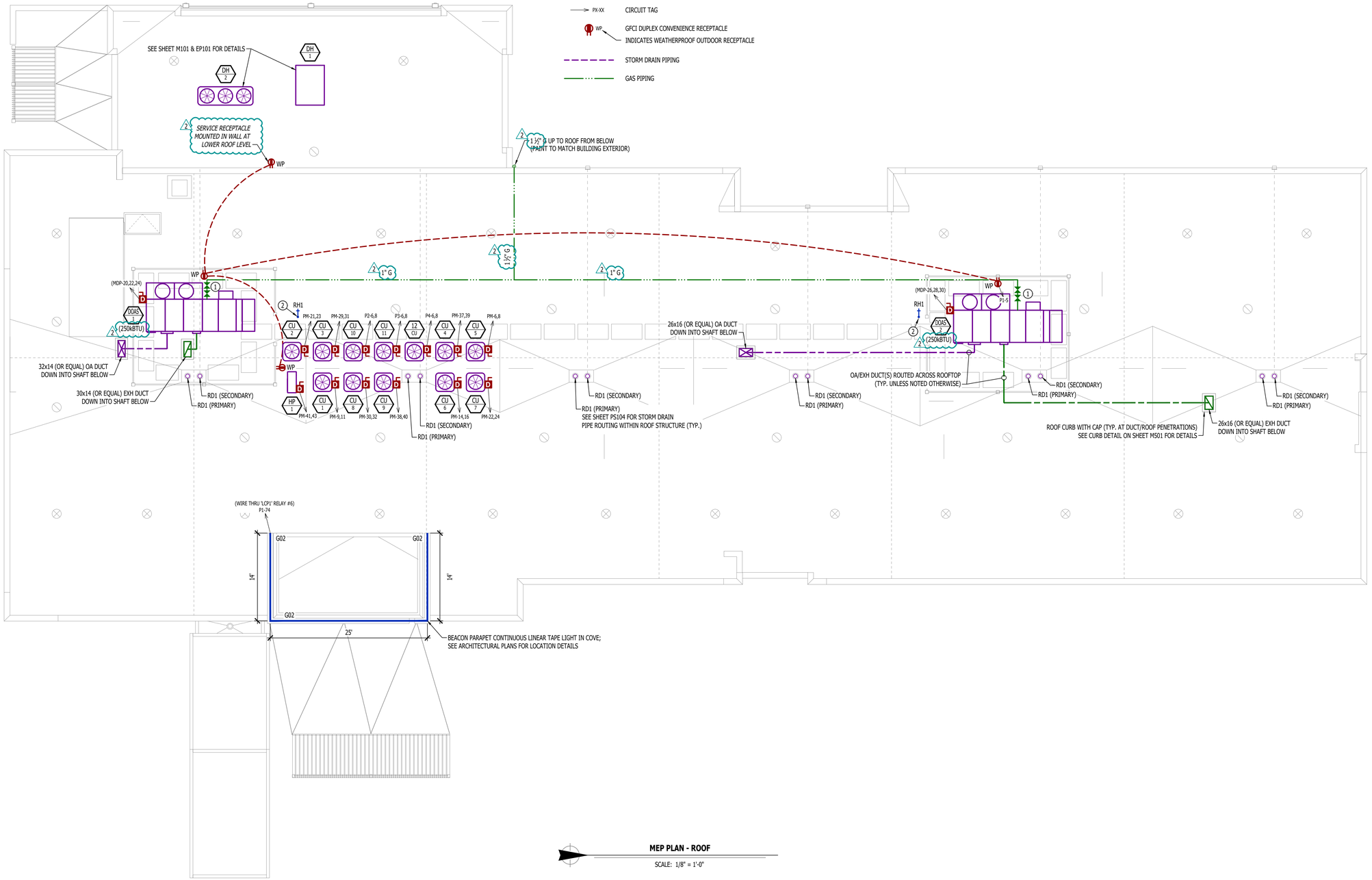
- X / # — EQUIPMENT TYPE (REFER TO EQUIPMENT SCHEDULE) / EQUIPMENT REFERENCE NUMBER
- SUPPLY DUCTWORK
- RETURN DUCTWORK
- EXHAUST DUCTWORK
- OUTSIDE AIR DUCTWORK
- CIRCUIT WIRING
- PX-XX — CIRCUIT TAG
- WP — GFCI DUPLEX CONVENIENCE RECEPTACLE / INDICATES WEATHERPROOF OUTDOOR RECEPTACLE
- STORM DRAIN PIPING
- GAS PIPING

ROOF MEP PLAN GENERAL NOTES

1. REFER TO TRADE SPECIFIC SHEETS FOR ADDITIONAL INFORMATION.
2. PROVIDE & INSTALL 2PSI TO 11"W.C. VENTLESS REGULATOR & SHUT-OFF VALVE AT ALL GAS EQUIPMENT.

ROOF MEP PLAN KEY NOTES

1. PROVIDE & INSTALL 2PSI TO 11" W.C. REGULATOR & SHUT-OFF VALVE AT EQUIPMENT CONNECTION.
2. ¾" CW UP FROM BELOW TO 'RH1'



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

STATE OF MISSOURI
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J2 PROJECT No:	J21005
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ISSUE TITLE	DATE
CITY SUBMISSION	04 / 17 / 2024
REVISION 1 - CITY RESPONSE	05 / 17 / 2024
2 CITY & BRAND RESPONSE	06 / 14 / 2024

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Home 2 Suites By Hilton

Village at Discovery Park Lot 2
Lee's Summit, MO

AHJ APPROVAL STAMP

SHEET TITLE

MEP PLAN - ROOF

SHEET NUMBER

MEP4

HVAC PLAN SYMBOL LEGEND

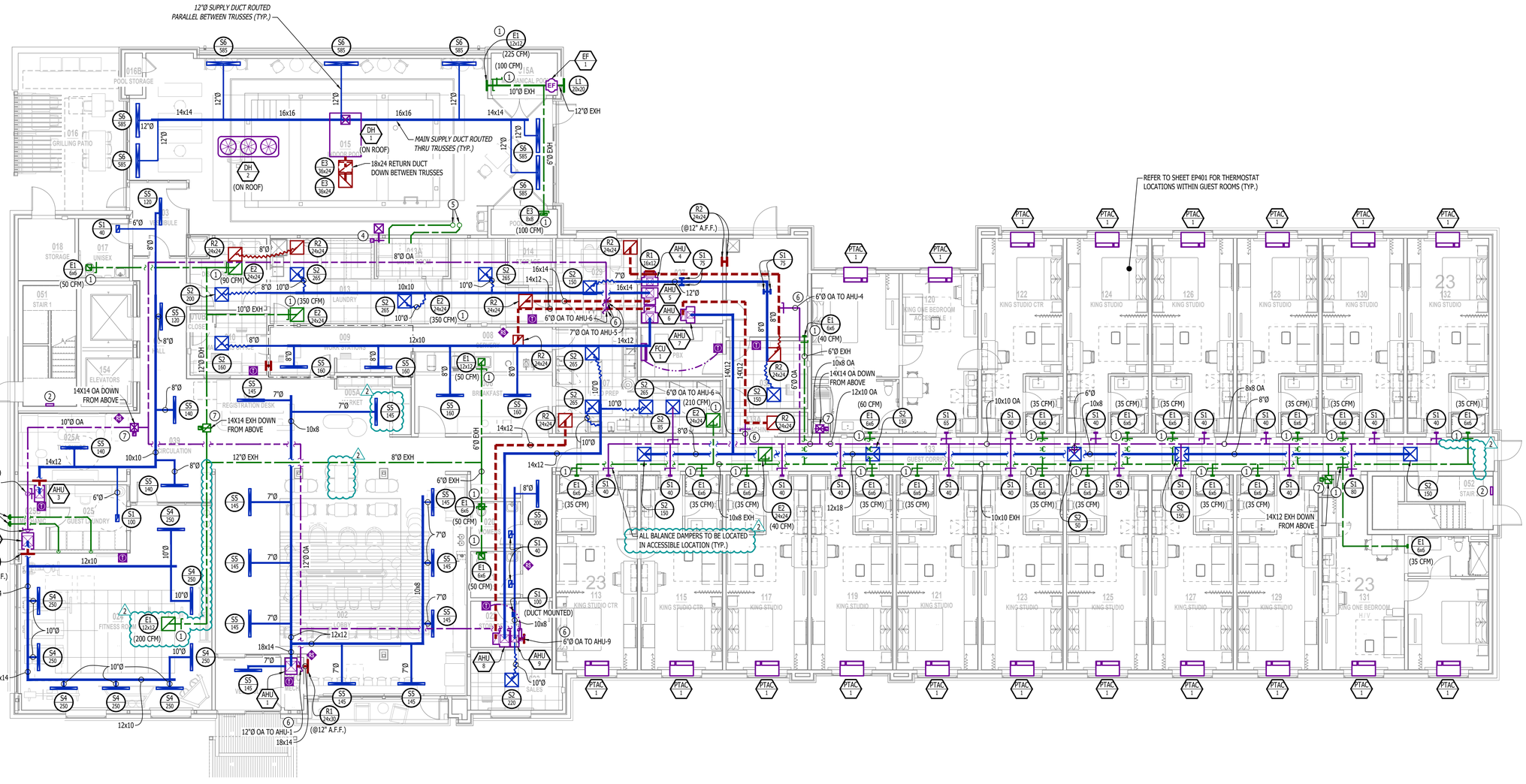
- EQUIPMENT TYPE (REFER TO EQUIPMENT SCHEDULE)
- EQUIPMENT REFERENCE NUMBER
- DIFFUSER/GRILLE TYPE (REFER TO SCHEDULE)
- CUBIC FEET PER MINUTE (CFM) / FACE SIZE
- SUPPLY DUCTWORK
- RETURN DUCTWORK
- EXHAUST DUCTWORK
- OUTSIDE AIR DUCTWORK
- FLEX DUCT
- VENT / COMBUSTION AIR
- CONDENSATION LINE
- SUPPLY DIFFUSER (HATCH INDICATES "NO FLOW ZONE")
- RETURN DIFFUSER
- BALANCE DAMPER
- MOTORIZED DAMPER
- CEILING RADIATION DAMPER
- FIRE RATED DAMPER
- SMOKE DAMPER
- THERMOSTAT
- CO2 DETECTOR
- REMOTE SENSOR

HVAC PLAN GENERAL NOTES:

1. SEE M500 & M600 SERIES SHEETS FOR ADDITIONAL HVAC NOTES, DETAIL, AND SCHEDULES.
2. ALL DUCTWORK SHALL ROUTE IN SPACE ABOVE FINISHED CEILINGS UNLESS NOTED OTHERWISE.

HVAC PLAN KEY NOTES:

1. BALANCE EXHAUST FLOW TO AMOUNT SHOWN (XXX CFM)
2. ELECTRIC WALL HEATER PROVIDED & INSTALLED BY ELECTRICIAN.
3. 4" DRYER EXHAUST FROM GUEST LAUNDRY DRYER TO EXTERIOR; TERMINATE WITH #DMV (COLOR DETERMINED BY ARCHITECT). WRAP DRYER EXHAUST WITH ZERO-CLEARANCE FIREWRAP EQUAL TO FIREMASTER DUCTWRAP OR EQUAL. DRYER EXHAUST SHALL NOT EXCEED 35' IN TOTAL DEVELOPED LENGTH PER IMC 504.8.4.
4. 16x16 COMBUSTION AIR DUCT OPEN TO DRYER ROOM; UP THRU ROOF TO GOOSENECK WITH ½" HARDWARE CLOTH OVER OPENING; INCLUDE MOTORIZED DAMPER ON OA DUCT INTERLOCKED WITH DRYER(S) - WHEN ANY DRYER IS IN OPERATION, DAMPER SHALL BE OPEN.
5. DRYER VENT ROUTED ABOVE CEILING TO TERMINATE UP THRU ROOF WITH GOOSENECK; LOCATE AT LEAST 10' FROM COMBUSTION AIR INTAKE.
6. BALANCE OA TO AMOUNT SHOWN IN EQUIPMENT SCHEDULE AT AHU RETURN DUCT CONNECTION.
7. COMBINATION FIRE/SMOKE DAMPER AT SHAFT PENETRATION; DAMPER TO CLOSE UPON FIRE ALARM SIGNAL. COORDINATE WITH FIRE ALARM CONTRACTOR & ELECTRICAL CONTRACTOR.



HVAC PLAN - FIRST FLOOR

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

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2 CITY & BRAND RESPONSE	06 / 14 / 2024

AHJ APPROVAL STAMP

SHEET TITLE

HVAC PLAN - FIRST FLOOR

SHEET NUMBER

M101

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Home 2 Suites By Hilton

Village at Discovery Park Lot 2
Lee's Summit, MO

HVAC PLAN SYMBOL LEGEND

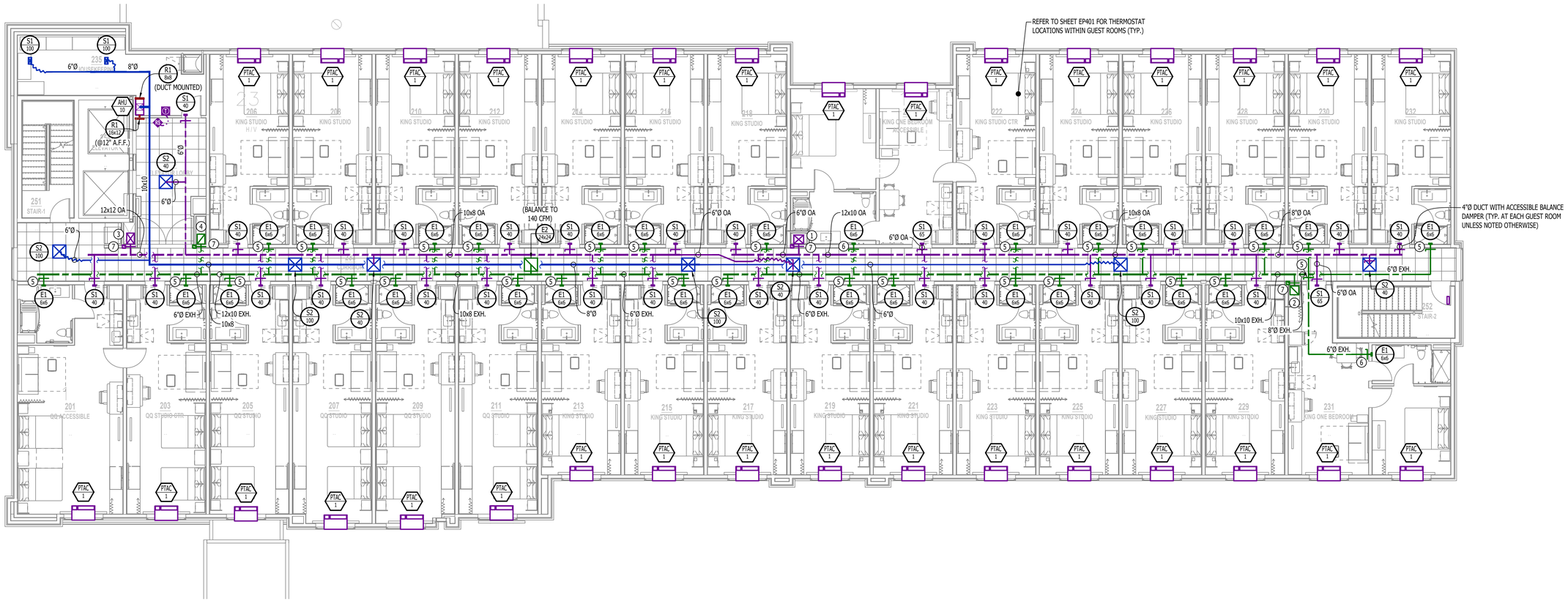
- EQUIPMENT TYPE (REFER TO EQUIPMENT SCHEDULE)
- EQUIPMENT REFERENCE NUMBER
- DIFFUSER/GRILLE TYPE (REFER TO SCHEDULE)
- CUBIC FEET PER MINUTE (CFM) / FACE SIZE
- SUPPLY DUCTWORK
- RETURN DUCTWORK
- EXHAUST DUCTWORK
- OUTSIDE AIR DUCTWORK
- FLEX DUCT
- VENT / COMBUSTION AIR
- CONDENSATION LINE
- SUPPLY DIFFUSER (HATCH INDICATES "NO FLOW ZONE")
- RETURN DIFFUSER
- BALANCE DAMPER
- MOTORIZED DAMPER
- CEILING RADIATION DAMPER
- FIRE RATED DAMPER
- SMOKE DAMPER
- THERMOSTAT
- CO2 DETECTOR
- REMOTE SENSOR

HVAC PLAN GENERAL NOTES:

1. SEE M500 & M600 SERIES SHEETS FOR ADDITIONAL HVAC NOTES, DETAIL, AND SCHEDULES.

HVAC PLAN KEY NOTES:

1. OUTSIDE AIR SUPPLY DUCT DOWN FROM DOAS-2 ON ROOF.
   DUCT SIZE: 18x16 @ 2ND FLOOR
2. EXHAUST DUCT DOWN FROM DOAS-2 ON ROOF.
   DUCT SIZE: 16x16 @ 2ND FLOOR
3. OUTSIDE AIR SUPPLY DUCT DOWN FROM DOAS-1 ON ROOF.
   DUCT SIZE: 14x14 @ 2ND FLOOR
4. EXHAUST DUCT DOWN FROM DOAS-2 ON ROOF.
   DUCT SIZE: 14x14 @ 2ND FLOOR
5. BALANCE EXHAUST FLOW TO 35 CFM.
6. BALANCE EXHAUST FLOW TO 60 CFM.
7. COMBINATION FIRE/SMOKE DAMPER AT SHAFT PENETRATION; DAMPER TO CLOSE UPON FIRE ALARM SIGNAL. COORDINATE WITH FIRE ALARM CONTRACTOR & ELECTRICAL CONTRACTOR.



HVAC PLAN - SECOND FLOOR

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

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MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Home 2 Suites By Hilton

Village at Discovery Park Lot 2
Lee's Summit, MO

AHJ APPROVAL STAMP

SHEET TITLE

HVAC PLAN - SECOND FLOOR

SHEET NUMBER

M102

HVAC PLAN SYMBOL LEGEND

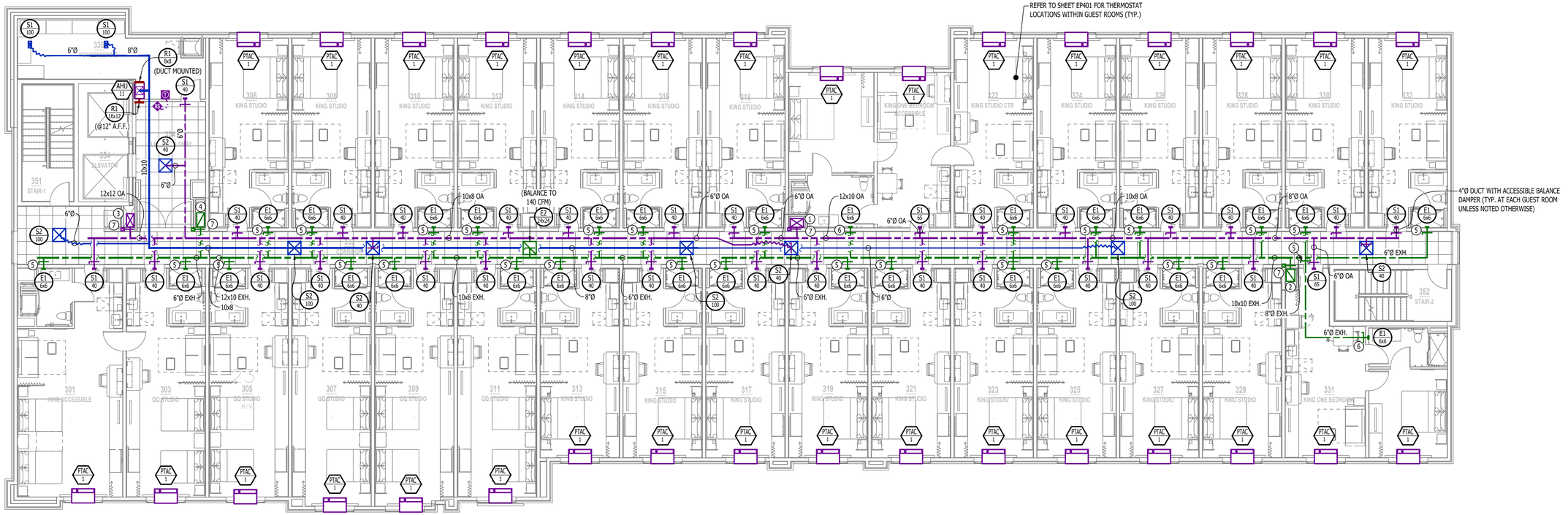
- EQUIPMENT TYPE (REFER TO EQUIPMENT SCHEDULE)
- EQUIPMENT REFERENCE NUMBER
- DIFFUSER/GRILLE TYPE (REFER TO SCHEDULE)
- CUBIC FEET PER MINUTE (CFM) / FACE SIZE
- SUPPLY DUCTWORK
- RETURN DUCTWORK
- EXHAUST DUCTWORK
- OUTSIDE AIR DUCTWORK
- FLEX DUCT
- VENT / COMBUSTION AIR
- CONDENSATION LINE
- SUPPLY DIFFUSER (HATCH INDICATES "NO FLOW ZONE")
- RETURN DIFFUSER
- BALANCE DAMPER
- MOTORIZED DAMPER
- CEILING RADIATION DAMPER
- FIRE RATED DAMPER
- SMOKE DAMPER
- THERMOSTAT
- CO2 DETECTOR
- REMOTE SENSOR

HVAC PLAN GENERAL NOTES:

1. SEE M500 & M600 SERIES SHEETS FOR ADDITIONAL HVAC NOTES, DETAIL, AND SCHEDULES.

HVAC PLAN KEY NOTES:

1. OUTSIDE AIR SUPPLY DUCT DOWN FROM DOAS-2 ON ROOF.
   DUCT SIZE: 24x16 @ 3RD FLOOR
2. EXHAUST DUCT DOWN FROM DOAS-2 ON ROOF.
   DUCT SIZE: 22x16 @ 3RD FLOOR
3. OUTSIDE AIR SUPPLY DUCT DOWN FROM DOAS-1 ON ROOF.
   DUCT SIZE: 26x14 @ 3RD FLOOR
4. EXHAUST DUCT DOWN FROM DOAS-2 ON ROOF.
   DUCT SIZE: 24x14 @ 3RD FLOOR
5. BALANCE EXHAUST FLOW TO 35 CFM.
6. BALANCE EXHAUST FLOW TO 60 CFM.
7. COMBINATION FIRE/SMOKE DAMPER AT SHAFT PENETRATION; DAMPER TO CLOSE UPON FIRE ALARM SIGNAL. COORDINATE WITH FIRE ALARM CONTRACTOR & ELECTRICAL CONTRACTOR.



HVAC PLAN - THIRD FLOOR

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

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MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Home 2 Suites By Hilton

Village at Discovery Park Lot 2
Lee's Summit, MO

AHJ APPROVAL STAMP

SHEET TITLE

HVAC PLAN - THIRD FLOOR

SHEET NUMBER

M103

HVAC PLAN SYMBOL LEGEND

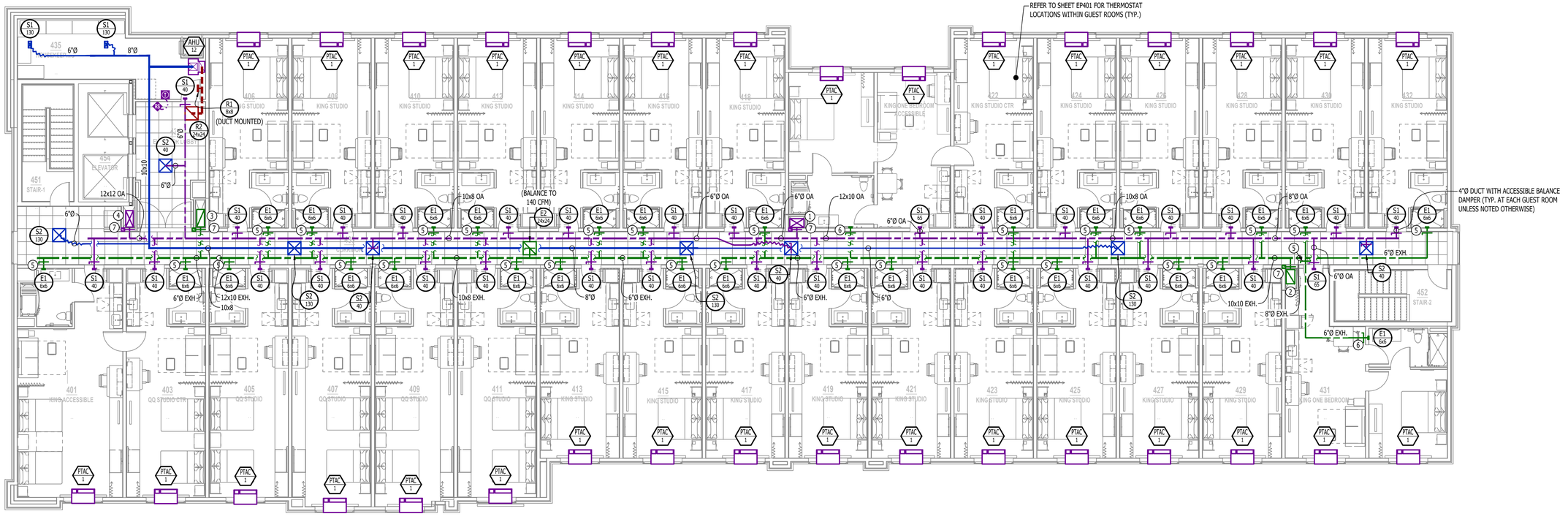
- EQUIPMENT TYPE (REFER TO EQUIPMENT SCHEDULE)
- EQUIPMENT REFERENCE NUMBER
- DIFFUSER/GRILLE TYPE (REFER TO SCHEDULE)
- CUBIC FEET PER MINUTE (CFM) / FACE SIZE
- SUPPLY DUCTWORK
- RETURN DUCTWORK
- EXHAUST DUCTWORK
- OUTSIDE AIR DUCTWORK
- FLEX DUCT
- VENT / COMBUSTION AIR
- CONDENSATION LINE
- SUPPLY DIFFUSER (HATCH INDICATES "NO FLOW ZONE")
- RETURN DIFFUSER
- BALANCE DAMPER
- MOTORIZED DAMPER
- CEILING RADIATION DAMPER
- FIRE RATED DAMPER
- SMOKE DAMPER
- THERMOSTAT
- CO2 DETECTOR
- REMOTE SENSOR

HVAC PLAN GENERAL NOTES:

1. SEE M500 & M600 SERIES SHEETS FOR ADDITIONAL HVAC NOTES, DETAIL, AND SCHEDULES.

HVAC PLAN KEY NOTES:

1. OUTSIDE AIR SUPPLY DUCT DOWN FROM DOAS-2 ON ROOF.
   DUCT SIZE: 26x16 @ 4TH FLOOR
2. EXHAUST DUCT DOWN FROM DOAS-2 ON ROOF.
   DUCT SIZE: 26x16 @ 4TH FLOOR
3. OUTSIDE AIR SUPPLY DUCT DOWN FROM DOAS-1 ON ROOF.
   DUCT SIZE: 32x14 @ 4TH FLOOR
4. EXHAUST DUCT DOWN FROM DOAS-2 ON ROOF.
   DUCT SIZE: 30x14 @ 4TH FLOOR
5. BALANCE EXHAUST FLOW TO 35 CFM.
6. BALANCE EXHAUST FLOW TO 60 CFM.
7. COMBINATION FIRE/SMOKE DAMPER AT SHAFT PENETRATION; DAMPER TO CLOSE UPON FIRE ALARM SIGNAL. COORDINATE WITH FIRE ALARM CONTRACTOR & ELECTRICAL CONTRACTOR.



HVAC PLAN - FOURTH FLOOR

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

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MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Home 2 Suites By Hilton

Village at Discovery Park Lot 2
Lee's Summit, MO

AHJ APPROVAL STAMP

SHEET TITLE

HVAC PLAN - FOURTH FLOOR

SHEET NUMBER

M104

HVAC SPECIFICATIONS

1. GENERAL

1.1. REFER TO GENERAL MEP SPECIFICATIONS SECTION FOR ADDITIONAL REQUIREMENTS.

2. WORKMANSHIP

2.1. COORDINATE WITH ALL OTHER TRADES SO THAT HVAC EQUIPMENT AND DUCT WORK DOES NOT BLOCK REQUIRED ACCESS OR CLEARANCE TO ANY EQUIPMENT, ACCESS PANELS, ELECTRICAL JUNCTION BOXES, ELECTRICAL PANELS, ETC.

2.2. ALL HVAC EQUIPMENT IS TO BE INSTALLED PER MANUFACTURER'S PUBLISHED RECOMMENDATIONS AND/OR INSTALLATION INSTRUCTIONS.

2.3. ALL EQUIPMENT TO BE INSTALLED LEVEL AND PLUMB, PARALLEL OR PERPENDICULAR TO BUILDING ORIENTATION WHERE POSSIBLE.

2.4. ROOFTOP MOUNTED RTU's SHALL BE INSTALLED ON CURBS PER MANUFACTURER'S INSTRUCTIONS. CURB HEIGHT SHALL PROVIDE A MINIMUM OF 6" BETWEEN EQUIPMENT AND TOP OF ROOF IN ALL LOCATIONS.

2.5. GRADE MOUNTED RTUS, CONDENSING UNITS, AND HEAT PUMPS TO BE INSTALLED ON 4" REINFORCED CONCRETE PAD EXTENDING 4" BEYOND EACH EDGE OF THE EQUIPMENT, OR A MANUFACTURER APPROVED PRE-MANUFACTURED BASE.

2.6. APPROPRIATE ATTENTION SHALL BE GIVEN TO INDOOR AIR QUALITY THROUGHOUT CONSTRUCTION; PROTECT INSIDE OF NEW DUCTWORK & AIR-HANDLING EQUIPMENT FROM DUST, DIRT, DEBRIS, PAINT, MOISTURE, ETC. INSULATION SHALL BE REPLACED IF EXPOSED TO MOISTURE. AN INDEPENDENT, PROFESSIONAL DUCT CLEANING COMPANY SHALL CLEAN ALL NEW DUCTWORK IF EQUIPMENT WAS USED DURING CONSTRUCTION, AND EQUIPMENT/COILS SHALL ALSO BE THOROUGHLY CLEANED.

2.7. FIELD COORDINATE LOCATIONS OF ALL DIFFUSERS, GRILLES, REGISTERS, ETC. WITH LIGHT FIXTURE LOCATIONS AND ADJUST AS NECESSARY.

3. EQUIPMENT

3.1. ALL EQUIPMENT SHOWN ON MECHANICAL PLANS SHALL BE PROVIDED & INSTALLED BY MECHANICAL CONTRACTOR UNLESS NOTED OTHERWISE.

3.2. ALL EQUIPMENT MUST PROVIDE PERFORMANCE AS SPECIFIED ON PLANS. WHERE SPECIFIC MANUFACTURERS AND/OR MODELS ARE INDICATED ON PLANS, CONTRACTOR TO PROVIDE MODEL INDICATED OR APPROVED EQUAL. VERIFY SUBSTITUTION APPROVAL PRIOR TO PURCHASE OR INSTALLATION OF EQUIPMENT.

3.3. CONTRACTOR TO SUPPLY SUBMITTALS FOR ALL EQUIPMENT FOR REVIEW BY ARCHITECT AND ENGINEER. FORMAL APPROVAL SHALL BE RECEIVED BY CONTRACTOR PRIOR TO EQUIPMENT PURCHASE.

3.4. CONTRACTOR TO SHARE APPROVED EQUIPMENT SUBMITTALS WITH ANY PERTINENT ELECTRICAL OR PLUMBING REQUIREMENTS WITH RESPECTIVE CONTRACTORS WITHIN TWO WEEKS OF RECEIVING APPROVED SUBMITTALS FROM ARCHITECT/ENGINEER.

3.5. ALL EQUIPMENT SHOWN ON PLANS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS WITH ADEQUATE ACCESS AND CLEARANCE FOR SERVICING OR REPLACEMENT.

3.6. ALL HORIZONTAL FURNACES WITH AC COILS SHALL BE EQUIPPED WITH CORROSION RESISTANT DRAIN PAIN. DRAIN PAN TO DISCHARGE TO SANITARY WASTE VIA INDIRECT CONNECTION WITH AIR GAP. DRAIN PAN TO PROVIDE SECONDARY OVERFLOW OR FLOAT SWITCH INTERLOCKED WITH UNIT TO SHUT DOWN UNIT ON HIGH WATER SIGNAL.

3.7. ALL EXTERIOR REFRIGERANT COILS TO BE PROTECTED BY FACTORY EQUIPPED HAIL GUARDS.

3.8. REFRIGERANT PIPING TO BE ACR COPPER OR TYPE L COPPER.

3.9. ALL AIR HANDLING EQUIPMENT SHALL BE EQUIPPED WITH MERV-8 FILTRATION AT RETURN OPENING UNLESS OTHERWISE NOTED.

3.10. ALL AIR FILTERS SHALL BE SIZED FOR A MAXIMUM FACE VELOCITY OF 500FPM.

3.11. PROVIDE & INSTALL ALL EQUIPMENT FLUES/VENTS PER MANUFACTURER'S SPECIFICATIONS. TERMINATIONS SHALL BE AT LEAST 10' FROM ANY FRESH AIR INTAKE.

3.12. PROVIDE NEW AIR FILTERS IN ALL EQUIPMENT PRIOR TO TESTING & BALANCING AND BEFORE TURNING OVER SYSTEM(S) TO OWNERSHIP.

3.13. IF ANY EXISTING EQUIPMENT IS TO BE REUSED, CLEAN AND INSPECT EQUIPMENT PRIOR TO BEGINNING WORK. VERIFY THAT EQUIPMENT IS IN GOOD WORKING CONDITION, REPORT ANY DEFICIENCIES TO ENGINEER.

4. DUCTWORK

4.1. DUCTWORK TO BE GALVANIZED STEEL, SEAL CLASS B, CONSTRUCTED PER SMACNA STANDARDS.

4.2. DUCTWORK THICKNESS:
- 4.2.1. 26 GA. MINIMUM UP TO 16" DUCT
- 4.2.2. 24 GA. UP TO 20"
- 4.2.3. 22 GA. UP TO 24"
- 4.2.4. 20 GA. UP TO 28"
- 4.2.5. 18 GA. UP TO 36"

4.3. TURNING VANES SHALL BE PROVIDED AND INSTALLED AT ALL 90° BENDS AND TEES.

4.4. ALL DUCT DIMENSIONS LISTED ARE TO INTERIOR OF DUCT LINER UNLESS NOTED OTHERWISE ON PLANS.

4.5. BALANCE DAMPERS MUST BE PROVIDED TO ALLOW ADJUSTMENT AT EACH AIR TERMINAL.
- 4.5.1. WHERE BRANCH TAKEOFF IS ACCESSIBLE (ABOVE LAY-IN CEILING OR EXPOSED DUCT), BALANCE DAMPER IS TO BE INSTALLED AT TAKEOFF.
- 4.5.2. WHERE TAKEOFF IS INACCESSIBLE (IN ATTIC OR SOFFIT), BALANCE DAMPER IS TO BE LOCATED SUCH THAT IT IS ACCESSIBLE FROM FACE OF AIR DEVICE.

4.6. HVAC CONTRACTOR RESPONSIBLE FOR ALL DUCTWORK TRANSITIONS AND FITTINGS AS REQUIRED FOR FINAL CONNECTIONS TO HVAC EQUIPMENT.

4.7. UNLESS NOTED OTHERWISE ON PLANS, FLEXIBLE DUCT CONNECTIONS MAY USED FROM BRANCH DUCTS TO FINAL AIR DEVICES, BUT SHALL NOT EXCEED 8'-0" IN LENGTH. FLEXIBLE DUCT CONNECTORS MUST BE SUPPORTED PER PLAN DETAILS.

5. INSULATION

5.1. DUCTWORK
- 5.1.1. SEE "TYPICAL DUCT INSULATION DIAGRAM" FOR INSTALLATION SPECIFIC REQUIREMENTS.
- 5.1.2. INTERNAL DUCT LINER TO BE CLOSED CELL ELASTOMERIC.
- 5.1.3. EXTERNAL DUCT WRAP TO INCLUDE VAPOR BARRIER. EQUAL TO 'JOHNS MANVILLE MICROLITE' WITH FSK JACKET.

5.2. REFRIGERANT PIPING
- 5.2.1. SPLIT SYSTEM (SUCTION LINE ONLY) - 1" CLOSED CELL ELASTOMERIC FOAM (EQUAL TO 'ARMAFLEX AP').

5.3. VRV/VRF SYSTEMS (BOTH SUCTION AND HOT GAS LINES) 1 ½" EPDM (EQUAL TO 'AEROFLEX AEROCEL AC') WITHIN CONDITIONED SPACES & 2" EDPM (EQUAL TO 'AEROFLEX AEROCEL AC') IN UNCONDITIONED SPACES, AND WITH BANDED ALUMINUM SHIELDING IN EXTERIOR SPACES.

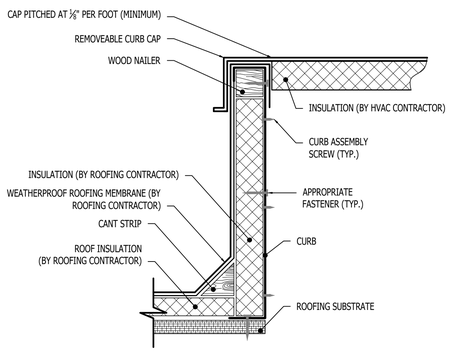
5.4. CONDENSATE PIPING
- 5.4.1. SPLIT SYSTEMS - WHERE CONDENSATE PIPING IS LOCATED IN UNCONDITIONED SPACE, INSULATE WITH ½" ELASTOMERIC. NO INSULATION REQUIRED WITHIN CONDITIONED SPACES.
- 5.4.2. VRV/VRF - INSULATE WITH ½" ELASTOMERIC.

6. TESTING AND BALANCING

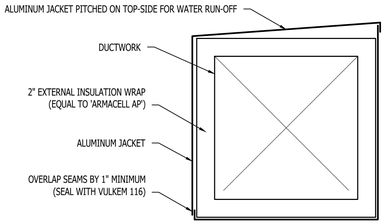
6.1. ALL SYSTEMS MUST BE BALANCED TO WITHIN 10% OF VALUES INDICATED ON PLAN.

6.2. HVAC CONTRACTOR TO PROVIDE WRITTEN BALANCE REPORT INCLUDING FLOW VALUES INDICATED ON PLANS, INITIAL MEASURED FLOW VALUES, AND FINAL MEASURED VALUES.

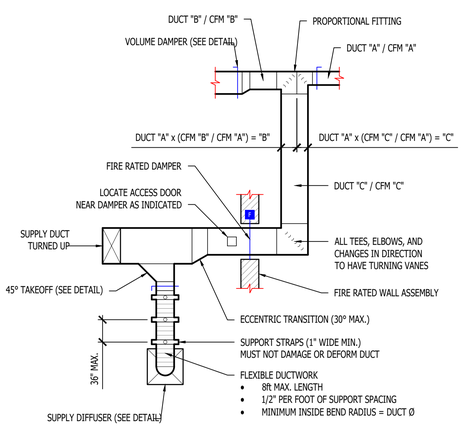
6.3. THIRD PARTY CERTIFIED TEST AND BALANCE NOT REQUIRED UNLESS OTHERWISE NOTED ON PLANS OR WITHIN PROJECT MANUAL.



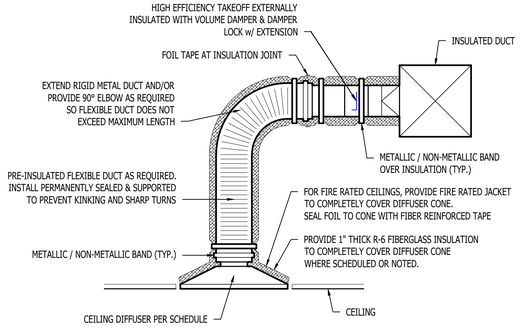
CURB DETAIL



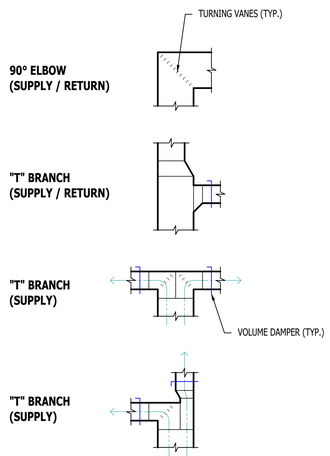
BUILDING EXTERIOR DUCT SECTION DETAIL



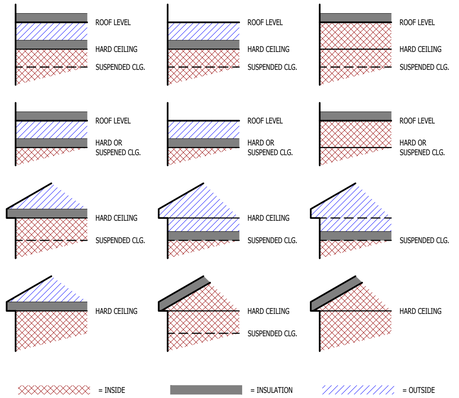
TYPICAL DUCTWORK DETAIL



TYPICAL LAY-IN DIFFUSER DETAIL



TYPICAL DUCTWORK FITTINGS DETAIL



DUCT INSIDE THERMAL ENVELOPE INSULATION REQUIREMENTS

RECTANGULAR
- SUPPLY = 1" LINER
- RETURN = 1" LINER
- EXHAUST = NONE
- OUTSIDE AIR = 2" WRAP

ROUND
- SUPPLY = 1½" WRAP
- RETURN = NONE
- EXHAUST = NONE
- OUTSIDE AIR = 2" WRAP

SPIRAL
- SUPPLY = NONE
- RETURN = NONE
- EXHAUST = NONE
- OUTSIDE AIR = 2" WRAP

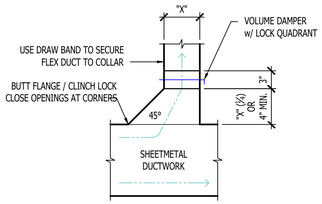
DUCT OUTSIDE THERMAL ENVELOPE INSULATION REQUIREMENTS

RECTANGULAR
- SUPPLY = 1" LINER & 1½" WRAP
- RETURN = 1" LINER & 1½" WRAP
- EXHAUST = 1½" WRAP
- OUTSIDE AIR = NONE

ROUND
- SUPPLY = 2" WRAP
- RETURN = 2" WRAP
- EXHAUST = 1½" WRAP
- OUTSIDE AIR = NONE

SPIRAL
- SUPPLY = 2" WRAP
- RETURN = 2" WRAP
- EXHAUST = 1½" WRAP
- OUTSIDE AIR = NONE

TYPICAL BUILDING INTERIOR DUCT INSULATION DIAGRAM



TYPICAL 45° TAKEOFF DETAIL

STATE OF MISSOURI
JAMES P. WATSON
NUMBER PE-2015017071
PROFESSIONAL ENGINEER

James Watson, P.E. April 17, 2024
PE-2015017071
MO Certificate of Authority # 2018029680

J-SQUARED ENGINEERING
2400 Bluff Creek Drive, Suite 101
Columbia, Missouri 65201
573.234.4492
www.j-squaredeng.com

J2 PROJECT No:	J21005
J2 DESIGN:	ACW

ISSUE TITLE	DATE
CITY SUBMISSION	04 / 17 / 2024

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Home 2 Suites By Hilton

Village at Discovery Park Lot 2
Lee's Summit, MO

AHJ APPROVAL STAMP

SHEET TITLE

HVAC DETAILS

SHEET NUMBER

M501

DEDICATED OUTSIDE AIR SYSTEM (DOAS) SCHEDULE

TAG	MANUFACTURER (OR EQUAL)	MODEL NUMBER (OR EQUAL)	AIRFLOW							FILTRATION		ENERGY RECOVERY				GAS HEATING					COOLING							ELECTRICAL			PHYSICAL		NOTES
			SUPPLY FAN				EXHAUST FAN					EFFECTIVENESS									E.A.T.		L.A.T.									
			AIRFLOW (CFM)	E.S.P (in. H20)	T.S.P. (in. H20)	HP	AIRFLOW (CFM)	E.S.P (in. H20)	HP	SIZE	EFFICIENCY	TOTAL COOLING	SENS. COOLING (kBTU)	TOTAL HEATING	SENS. HEATING (kBTU)	INPUT CAPACITY	OUTPUT CAPACITY	TURNDOWN	E.D.B. (°F)	L.D.B. (°F)	D.B. (°F)	W.B. (°F)	D.B. (°F)	W.B. (°F)	SENSIBLE CAPACITY (MBTU)	NET TOTAL CAPACITY (MBTU)	EER	VOLTS/PH	MCA	OCP	DIMENSIONS (LxWxH)	WEIGHT (LBS)	
DOAS-1	TRANE	OADG020F1-DAB10AE00-E3AEE3AE0-21A40B03C-A00C00A00-A00A00000-00AK00000	3020	1.00	2.52	1.69	2770	1.00	1.38	2"	MERV-8 - 30%	92.48	43.08	185.9	140.3	250	203	8:1	48.5	110.3	81.3	70.3	46.5	46.2	108.8	206.8	14.9	208/3	87	110-3	212x52x70	4172	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
DOAS-2	TRANE	OADG020F1-DAB10AE00-G3AEE3AE0-21A40B03C-A00C00A00-A00A00000-00AK00000	3150	1.00	2.61	1.83	2775	1.00	1.39	2"	MERV-8 - 30%	93.3	43.8	188.3	142.6	250	203	8:1	47.4	106.7	81.6	70.5	47.5	47.2	110.6	214.7	15.0	208/3	87	110-3	212x52x70	4172	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

NOTES:
1. HORIZONTAL DISCHARGE / HORIZONTAL RETURN
2. DX 6-ROW COIL; DIGITAL SCROLL FIRST CIRCUIT COMPRESSOR
3. DIRECT DRIVE SUPPLY & EXHAUST FAN MOTORS W/ SHAFT GROUNDING RING & VFD
4. WITH UC600 DISCHARGE AIR CONTROLLER
5. WITH BACNET BUILDING INTERFACE
6. WITH ERC-3625-HM ENERGY RECOVERY WHEEL (ALUMINUM CONSTRUCTION, FROST PROTECTION, WITH VFD)
7. WITH MODULATING OA & RA DAMPERS WITH ECONOMIZER
8. WITH BAROMETRIC RELIEF DAMPERS
9. WITH FACTORY INSTALLED DISCONNECT & HAIL-GUARDS
10. WITH ACTIVE (VFD) HEAD PRESSURE LOW-AMBIENT CONTROL
11. WITH SMOKE DETECTOR IN RETURN AIR DUCT TO SHUT DOWN UNIT AND SEND SIGNAL TO BUILDING FIRE ALARM SYSTEM UPON DETECTION OF SMOKE. IF NO BUILDING FIRE ALARM SYSTEM IS PRESENT, PROVIDE ALARM DEVICE IN OCCUPIED AREA.
12. WITH MERV-13 FILTRATION

AIR HANDLING UNIT & AC SCHEDULE

TAG	EQUIPMENT DESCRIPTION	SIZE (TONS)	ORIENTATION	TOTAL AIRFLOW (CFM)	E.S.P. (in. H20)	DOAS OA (CFM)	HEATING	COOLING (IA: 80 DB/67 WB, OA: 95 DB)			ELECTRICAL			NOTES
							ELECTRIC (KW)	SENSIBLE (KBTU)	TOTAL (KBTU)	MIN EFF. (SEER2)	VOLTS/PH	MCA	OCP	
AHU-1	AIR HANDLING UNIT	4.0	UPFLOW	1600	0.5	345	19	-	-	-	208/1	51, 43	60-2, 45-2	1, 2, 5, 12
AHU-2	AIR HANDLING UNIT	5.0	UPFLOW	2000	0.5	225	19	-	-	-	208/1	51, 43	60-2, 45-2	1, 2, 5
AHU-3	AIR HANDLING UNIT	2.0	UPFLOW	800	0.5	70	10	-	-	-	208/1	51	60-2	1, 2, 5
AHU-4	AIR HANDLING UNIT	1.5	UPFLOW	600	0.5	95	8	-	-	-	208/1	44	45-2	1, 2, 5
AHU-5	AIR HANDLING UNIT	2.5	UPFLOW	1000	0.5	110	10	-	-	-	208/1	51	60-2	1, 2, 5
AHU-6	AIR HANDLING UNIT	2.0	UPFLOW	800	0.5	85	10	-	-	-	208/1	51	60-2	1, 2, 5
AHU-7	AIR HANDLING UNIT	1.5	UPFLOW	600	0.5	50	8	-	-	-	208/1	44	45-2	1, 2, 5
AHU-8	AIR HANDLING UNIT	2.0	UPFLOW	800	0.5	-	10	-	-	-	208/1	51	60-2	1, 2, 5
AHU-9	AIR HANDLING UNIT	1.5	UPFLOW	600	0.5	35	8	-	-	-	208/1	44	45-2	1, 2, 5
AHU-10	AIR HANDLING UNIT	1.5	UPFLOW	600	0.5	-	8				208/1	44	45-2	1, 2, 5
AHU-11	AIR HANDLING UNIT	1.5	UPFLOW	600	0.5	-	8				208/1	44	45-2	1, 2, 5
AHU-12	AIR HANDLING UNIT	2.0	UPFLOW	800	0.5	-	10				208/1	51	60-2	1, 2, 5
CU-1	CONDENSING UNIT	4.0	-	-	-	-	-	36.8	48.3	13.4	208/1	24	40	3, 4
CU-2	CONDENSING UNIT	5.0	-	-	-	-	-	41.0	57.0	13.4	208/1	34	60	3, 4
CU-3	CONDENSING UNIT	2.0	-	-	-	-	-	18.2	24.5	13.4	208/1	14	25	3, 4
CU-4	CONDENSING UNIT	1.5	-	-	-	-	-	13.6	18.6	13.4	208/1	12	20	3, 4
CU-5	CONDENSING UNIT	2.5	-	-	-	-	-	23.1	32.0	13.4	208/1	16	25	3, 4
CU-6	CONDENSING UNIT	2.0	-	-	-	-	-	18.2	24.5	13.4	208/1	14	25	3, 4
CU-7	CONDENSING UNIT	1.5	-	-	-	-	-	13.6	18.6	13.4	208/1	12	20	3, 4
CU-8	CONDENSING UNIT	2.0	-	-	-	-	-	18.2	24.5	13.4	208/1	14	25	3, 4
CU-9	CONDENSING UNIT	1.5	-	-	-	-	-	13.6	18.6	13.4	208/1	12	20	3, 4
CU-10	CONDENSING UNIT	1.5	-	-	-	-	-	13.6	18.6	13.4	208/1	12	20	3, 4
CU-11	CONDENSING UNIT	1.5	-	-	-	-	-	13.6	18.6	13.4	208/1	12	20	3, 4
CU-12	CONDENSING UNIT	2.0	-	-	-	-	-	18.2	24.5	13.4	208/1	14	25	3, 4

NOTES:
1. PROVIDE AND INSTALL 7 DAY PROGRAMABLE THERMOSTAT. COORDINATE EXACT MOUNTING LOCATION WITH OWNER.
2. INCLUDE CORROSION RESISTANT DRAIN PAN WITH OVERFLOW SWITCH WIRED TO SHUT DOWN UNIT.
3. WITH FACTORY HAIL GUARD.
4. LOW AMBIENT PACKAGE FOR OPERATION TO 0° F.
5. WITH MERV-13 FILTRATION

PTAC SCHEDULE

TAG	EQUIPMENT DESCRIPTION	MANUFACTURER (OR EQUAL)	MODEL NUMBER (OR EQUAL)	TOTAL AIRFLOW (CFM)	HEATING	COOLING (IA: 80 DB/67 WB, OA: 95 DB)			ELECTRICAL			NOTES
					ELECTRIC (KW)	SENSIBLE (KBTU)	TOTAL CAP. (KBTU)	MIN EFF. (EER)	VOLTS/PH	MCA	OCP	
PTAC-1	PACKAGED TERMINAL AC	FRIEDRICH	PDE07K3SG	315 - 255	3.5	6.2	7.2	13.0	208/1	16	20-2	1, 2, 3, 4
PTAC-2	PACKAGED TERMINAL AC	FRIEDRICH	PDE09K3SG	355 - 275	3.5	8.0	9.4	12.1	208/1	16	20-2	1, 2, 3, 4

NOTES:
1. PROVIDE & INSTALL
2. WITH WALL SLEEVE
3. WITH #PXSB23020 UNIT SUBBASE & #PXDS DISCONNECT SWITCH
4. WITH ARCHITECTURAL SERIES EXTERIOUR GRILLE (VERIFY STYLE WITH ARCHITECT)

POOL DEHUMIDIFICATION UNIT SCHEDULE

TAG	MANUFACTURER	MODEL #	SUPPLY CFM	OA CFM	FAN E.S.P. (IN)	TEMP / HUMIDITY				ELECTRIC HEAT (KW)	R410A COOLING			ELECTRICAL			NOTES
						SPACE TEMP	MAX RH	POOL SQ FT	POOL TEMP		CAPACITY (MBH) NET SENSIBLE	CAPACITY (MBH) TOTAL	WTR RATE (lb / hr)	VOLT	MCA	MOP	
DH-1	DESERT-AIRE	LC-10C7NEFUMDAED	4100	375	1.5	84	56	500	82	19	-	-	-	208/3	117	125-3	1, 2, 3, 4, 5, 6, 7, 8, 9, 12
DH-2	DESERT-AIRE	RCSS051C3H21900	-	-	-	-	-	-	-	-	71.8	135.0	59.0	208/3	8	15-3	6, 8

NOTES:
1. ALL COOLING CAPACITES BASED ON 92°F OUTSIDE AIR TEMPERATURE.
2. THE MANUFACTURER SHALL REVIEW ALL CONDITIONS & GUARANTEE A FULLY OPERATIONAL SYSTEM & PROVIDE INDOOR CONDITIONS OF 84°F SPACE TEMP AT A WATER TEMP OF 2 DEGREES COOLER.
3. ALL CONTROLS ARE THE RESPONSIBILITY OF THE MANUFACTURER & CONTRACTOR.
4. UNIT SHALL HAVE FACTORY ASSISTED START-UP WITH WEB INTERNET CONNECTION. INTERNET CONNECTION REQUIRED AT UNIT.
5. UNIT SHALL BE PROVIDED WITH THE FOLLOWING: FACTORY MOUNTED INTEGRAL DISCONNECTS ON OUTDOOR UNITS, REMOTE THERMOSTAT / DEHUMIDISTAT WITH RETURN DUCT MOUNTED SENSORS, ELECTRIC REHEAT FOR HUMIDITY CONTROL, 2" PLEATED FILTERS WITH CLOGGED FILTER SWITCH, SWIMMING POOL PROTECTIVE COATING ON FULL INTERIOR CASING & COILS, AND STAINLESS STEEL HEAT EXCHANGER.
6. WITH CURB & ACCESSORIES FOR EXTERIOR (ROOF) MOUNTING CONFIGURATION
7. WITH RETURN DUCT SMOKE-DETECTOR INTEGRATED INTO BUILDING FIRE ALARM SYSTEM.
8. WITH CURB OR EQUIPMENT RAIL MOUNTED SCREENING SYSTEM WITH SMOOTH PANEL PROFILE. VERFIY PANEL & TRIM COLOR WITH ARCHITECT.
9. WITH MERV-13 FILTRATION

MINI-SPLIT SYSTEM SCHEDULE

TAG	EQUIPMENT DESCRIPTION	SIZE (TONS)	ORIENTATION	TOTAL AIRFLOW (CFM)	HEATING (IA:70 DB, OA:17 DB)	COOLING (IA: 80 DB/67 WB, OA: 95 DB)			ELECTRICAL			NOTES
					TOTAL (KBTU)	SENSIBLE (KBTU)	TOTAL (KBTU)	EFFICIENCY (SEER)	VOLTS/PH	MCA	OCP	
FCU-1	FAN-COIL UNIT	2.0	WALL-MOUNT	700	-	-	-	-	(POWERED THRU HP-1)			1, 3, 4
HP-1	HEAT PUMP	2.0	STANDARD	-	18.3	18.5	24	21	208/1	14	25-2	2, 5

NOTES:
1. WITH WIRED THERMOSTAT
2. WITH WIND BAFFLE
3. WITH FIELD INSTALLED CONDENSATE PUMP
4. EQUAL TO MITSUBISHI #PKA-A24KA7
5. EQUAL TO MITSUBISHI #PUZ-A24NHA7

EXHAUST FAN SCHEDULE

TAG	EQUIPMENT TYPE	MANUFACTURER (OR EQUAL)	MODEL (OR EQUAL)	FLOW		ELECTRICAL			PHYSICAL		NOTES
				CFM	S.P.	VOLT/PH	MCA	OCP	DIM.	WEIGHT	
EF-1	IN-LINE EXHAUST FAN	SOLER & PALAU	TD-200S	425	3/8"	120/1	1	20	23x13x11	20 lbs.	1, 2

NOTES:
1. WITH BACKDRAFT DAMPER
2. WITH SPEED CONTROLLER

AIR DEVICE SCHEDULE

TAG	SERVICE	MANUFACTURER (OR EQUAL)	MODEL (OR EQUAL)	SIZE	COLOR / FINISH	NOTES
S1	SUPPLY	PRICE	520	6x6	WHITE	
S2	SUPPLY	PRICE	SPD	24x24	WHITE	
S3	SUPPLY	PRICE	520	12x6	WHITE	
S4	SUPPLY	PRICE	SDS-100	48"L (3 SLOT)	WHITE	WITH 'SDB' PLENUM BOX
S5	SUPPLY	PRICE	SDS-100	48"L (2 SLOT)	WHITE	WITH 'SDB' PLENUM BOX
S6	SUPPLY	PRICE	SDS-150	60"L (4 SLOT)	WHITE	WITH 'SDB' PLENUM BOX
E1	EXHAUST	PRICE	530	AS INDICATED	WHITE	
E2	EXHAUST	PRICE	80	AS INDICATED	WHITE	
E3	EXHAUST	PRICE	630	AS INDICATED	WHITE	ALUMINUM
T1	TRANSER	PRICE	STG	AS INDICATED	WHITE	
R1	RETURN	PRICE	530	AS INDICATED	WHITE	
R2	RETURN	PRICE	80	AS INDICATED	WHITE	
R3	RETURN	PRICE	630	AS INDICATED	WHITE	ALUMINUM
L1	EXH / OA	POTTORFF	EFD	AS INDICATED	PRIMED	PAINT TO MATCH EXTERIOR

NOTES:
1. VERIFY AIR DEVICE FINISHES WITH OWNER/ARCHITECT PRIOR TO INSTALLATION

DIFFUSER NECK SIZING SCHEDULE

AIRFLOW (CFM)	NECK SIZE (in)
0 - 120	6"
120 - 210	8"
210 - 325	10"
325 - 470	12"
470 - 640	14"

STATE OF MISSOURI
JAMES P. WATSON
NUMBER PE-2015017071
PROFESSIONAL ENGINEER

James Watson, P.E. June 14, 2024
PE-2015017071
MO Certificate of Authority # 2018029680

J-SQUARED ENGINEERING
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J2 PROJECT No:	J21005
J2 DESIGN:	ACW

ISSUE TITLE	DATE
CITY SUBMISSION	04 / 17 / 2024
REVISION 1 - CITY RESPONSE	05 / 17 / 2024
2 CITY & BRAND RESPONSE	06 / 14 / 2024

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Home 2 Suites By Hilton

Village at Discovery Park Lot 2
Lee's Summit, MO

AHJ APPROVAL STAMP

SHEET TITLE

HVAC SCHEDULES

SHEET NUMBER

M601

POWER PLAN SYMBOL LEGEND

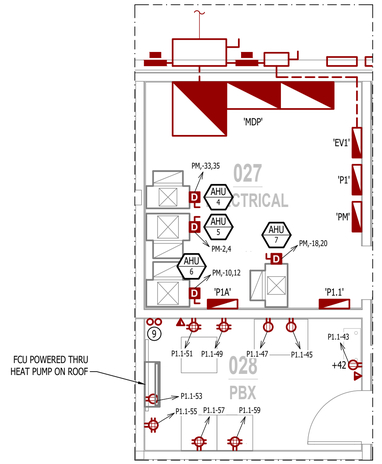
	CIRCUIT WIRING		DATA / PHONE JACK BOX WITH 1" CONDUIT WITH CAT-6 (STANDARD @ 18" AFF UNLESS NOTED OTHERWISE) MULTIPLE CAT-6 IN SINGLE BOX IN MULTIPLE SYMBOLS SHOWN AT THE SAME LOCAITON
PX-XX	CIRCUIT TAG		
J	JUNCTION BOX	TV	COAX & CAT-6 HOME RUNS (SEE BRAND REQUIREMENTS)
XX +42	RECEPTACLE INDICATES MOUNTING HEIGHT TO BOTTOM OF BOX (STANDARD @ 18" AFF UNLESS NOTED OTHERWISE) "WP" = WEATHERPROOF OUTDOOR RECEPTACLE "AW" = ABOVE WINDOW RECEPTACLE "AC" = ABOVE CEILING RECEPTACLE "IG" = ISOLATED GROUND	AP	WIRELESS ACCESS POINT, CEILING MOUNTED
		WAP	WIRELESS ACCESS POINT, WALL MOUNTED
	GFCI DUPLEX CONVENIENCE RECEPTACLE		FLOOR RECEPTACLE
	208V RECEPTACLE		FLOOR DATA
	QUADPLEX CONVENIENCE RECEPTACLE	D	DISCONNECT
U	USB OUTLET WITH USB-A & USB-C CHARGING PORT	FD	FUSED DISCONNECT

POWER PLAN GENERAL NOTES:

1. SEE E500 & E600 SERIES SHEETS FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES.
2. ALL TECHNOLOGY WIRING SYSTEMS MUST BE SUPPLIED & INSTALLED BY A SUPPLIER APPROVED BY HILTON, WHO IS A PINOUT CERTIFIED INSTALLER (PCI) PARTNER. REFER TO SECTION 2518 OF "HOME2 SUITES BRAND STANDARDS - UNITED STATES 2500 - DESIGN, CONSTRUCTION & RENOVATION STANDARD" FOR FURTHER INFORMATION.
3. VERIFY ALL POWER/DATA LOCATION SHOWN WITH BRAND PRIOR TO ROUGH-IN.
4. REFER TO BRAND PROTOTYPE DRAWINGS FOR DIMENSIONED RECEPTACLE LOCATIONS.

POWER PLAN KEY NOTES:

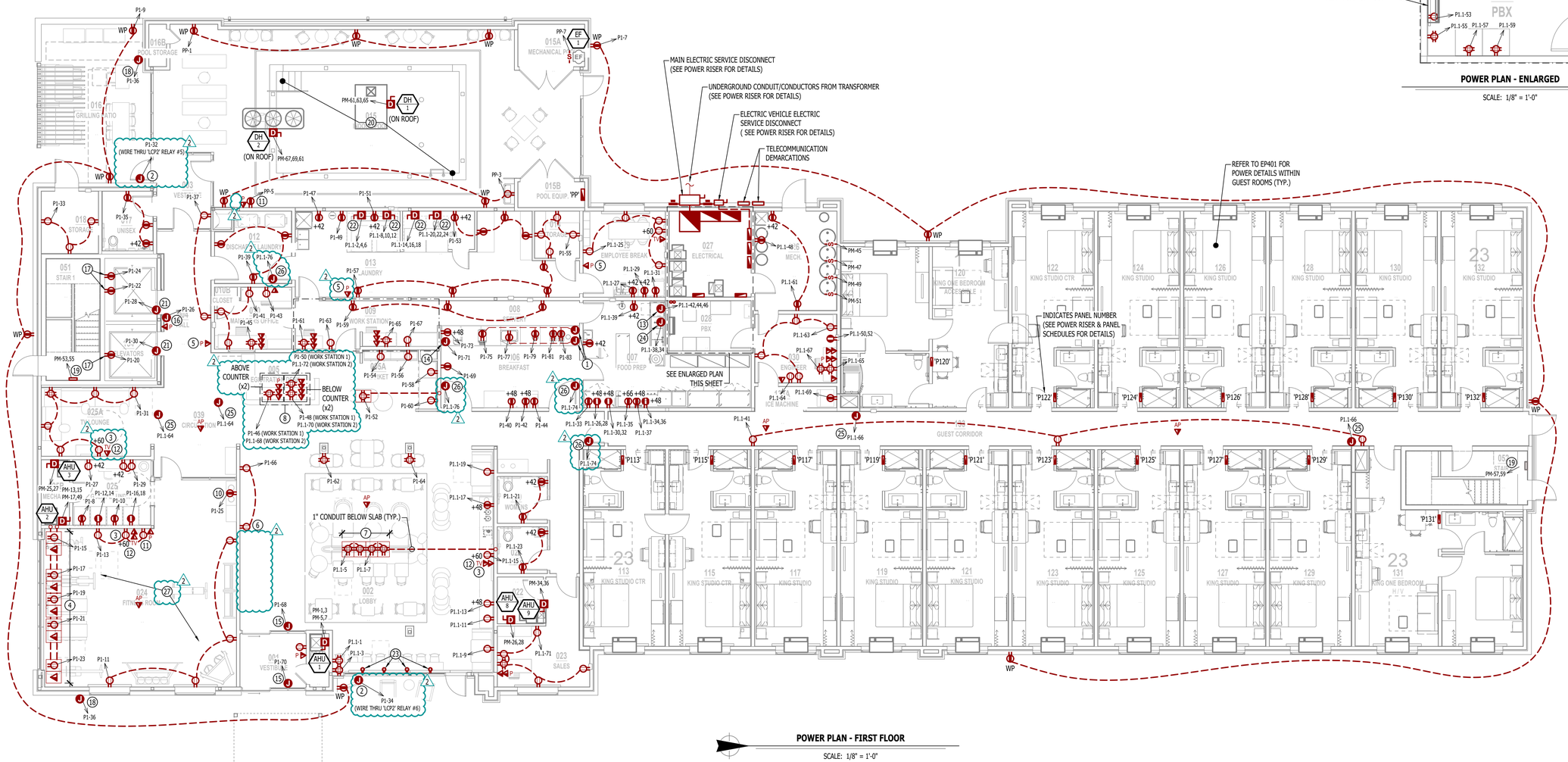
1. STUB OUT, TO FIXTURE MOUNTED OUTLET (BY ELECTRICAL CONTRACTOR). COORDINATE EXACT SPECIFICATIONS & REQUIREMENTS WITH DISPLAY SHOWCASE SUPPLIER/INSTALLER.
2. POWER FOR EXTERIOR STRING LIGHTS, COORDINATE EXACT LOCATION & REQUIREMENTS WITH LIGHTING PROVIDER.
3. COORDINATE OUTLET LOCATION WITH MEDIA MOUNT (SEE ARCHITECTURAL PLANS).
4. FLUSH MOUNTED FLOOR OUTLET BOX WITH BRUSHED ALUMINUM COVER PLATE. COORDINATE LOCATION WITH FITNESS EQUIPMENT SUPPLIER.
5. HOUSE PHONE LOCATION.
6. PROVIDE DUPLEX OUTLET AT GALLERY WALL FOR CLOCK, COORDINATE EXACT LOCATION WITH ARCHITECTURAL PLANS.
7. FLUSH MOUNTED FLOOR OUTLET BOX WITH BRUSHED ALUMINUM COVER PLATE. COORDINATE FLOOR RECEPTACLE LOCATION WITH FURNITURE PLACEMENT.
8. POWER, DATA, PHONE, ETC. LOCATED WITHIN MILLWORK OF WELCOME DESK. COORDINATE EXACT LOCATION/REQUIREMENTS WITH WELCOME DESK SUPPLIER/INSTALLER. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL DETAIL/REQUIREMENTS. PROVIDE CONDUIT BACK TO COMPUTER/COMMUNICATIONS FOR ALL SYSTEMS. POWER RECEPTACLES BELOW THE DESK MUST NOT BE ON A SEPARATE DEDICATED GROUNDED CIRCUIT FROM THE OUTLETS ABOVE THE DESK.
9. (2) 3" CONDUIT FROM TELECOMMUNICATION DEMARCATIONS INTO PBX CLOSET.
10. COORDINATE LOCATION OF POWER FOR HYDRATION STATION TO BE CONCEALED BY MILLWORK.
11. POWER FOR HOUSE TELEPHONE AND/OR EMERGENCY TELEPHONE. THE EMERGENCY TELEPHONE MUST BE MOUNTED 48"/1.2 M MAXIMUM ABOVE THE FINISHED FLOOR. THE TELEPHONE MUST HAVE A RED CASING. THE TELEPHONE MUST ALLOW DIRECT CALLS TO OUTSIDE EMERGENCY RESPONDERS AND TO A LOCATION THAT IS MANNED 24-HOURS A DAY UNLESS THE LOCAL JURISDICTION REQUIRES OTHERWISE. THE TELEPHONE MUST COMPLY WITH BRAND STANDARD 702.01.A – EMERGENCY SERVICES.
12. PROVIDE COAX & CAT6 HOME-RUNS AT ALL PUBLIC & BACK-OF-HOUSE TELEVISIONS
13. POWER FOR DISHWAHSER; COORDINATE EXACT DETAILS & REQUIREMENTS WITH EQUIPMENT SUPPLIER/INSTALLER.
14. POWER FOR TAPE LIGHTS @ SERVERY DRAWER(S) IN CASEWORK. COORDINATE EXACT LOCATION/REQUIREMENTS WITH CASEWORK SUPPLIER/INSTALLER.
15. POWER FOR DOOR OPERATOR; COORDINATE EXACT LOCATION & REQUIREMENTS WITH DOOR HARDWARE SUPPLIER/INSTALLER.
16. POWER/DATA/PHONE FOR RATH 2-WAY ELEVATOR COMMUNICATION SYSTEM.
17. RECEPTACLE(S) IN ELEVATOR PIT; REFER TO ELEVATOR PIT DETAIL.
18. POWER FOR 120V SOLENOID/GAS VALVE. WIRE THRU 'LCP1' RELAY #8. INCLUDE EMERGENCY STOP PUSH-BUTTON EQUAL TO STI-USA #SS2079ES-EN TO OPEN CIRCUIT TO ELECTRICALLY HELD GAS SOLENOID TO TURN OFF GAS SUPPLY TO FIRE-PIT. MOUNT IN OBVIOUS VISIBLE LOCATION. COORDINATE WITH PLUMBING CONTRACTOR.
19. PROVIDE & INSTALL 3kW ELECTRIC WALL HEATER EQUAL TO QMARK #AWH404F.
20. PROVIDE EQUIPOTENTIAL BONDING OF POOL & DECK AREA PER NEC 680.26. SEE ELECTRICAL DETAILS.
21. POWER FOR SMOKE CURTAIN; SEE ARCHITECTURAL DETAILS.
22. POWER FOR WASHER/DRYER; VERIFY EXACT ELECTRICAL REQUIREMENTS WITH BRAND/GC PRIOR TO INSTALLATION.
23. EXTEND P1.1-1 & P1.1-3 CIRCUITS TO SUPPLY POWER HUBS (EQUIPMENT PART OF FF&E PACKAGE). REFER TO ARCHITECTURAL PLANS FOR DETAILS.
24. POWER FOR DISPOSAL; COORDINATE EXACT DETAILS & REQUIREMENTS WITH EQUIPMENT SUPPLIER/INSTALLER.
25. POWER FOR FIRE/SMOKE DAMPER ACTIVATION (DAMPER TO CLOSE ON FIRE ALARM SIGNAL) COORDINATE EXACT LOCATION & REQUIREMENTS WITH HVAC CONTRACTOR & FIRE ALARM CONTRACTOR.
26. POWER FOR MAGNETIC DOOR HOLDS, DOOR(S) TO CLOSE UPON FIRE DETECTION (COORDINATE EXACT LOCATION & REQUIREMENTS WITH DOOR HARDWARE SUPPLIER & FIRE ALARM SYSTEM INSTALLER.
27. COORDINATE EXACT POWER & DATA REQUIREMENTS OF ALL FITNESS EQUIPMENT WITH VENDOR. BRAND REVIEW OF LAYOUT IS REQUIRED PRIOR TO APPROVAL/ROUGH-IN.



FCU POWERED THRU HEAT PUMP ON ROOF

POWER PLAN - ENLARGED

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



POWER PLAN - FIRST FLOOR

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

STATE OF MISSOURI
JAMES P. WATSON
NUMBER PE-2015017071
PROFESSIONAL ENGINEER

James Watson, P.E. June 14, 2024
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J2 PROJECT No:	J21005
J2 DESIGN:	ACW

ISSUE TITLE	DATE
CITY SUBMISSION	04 / 17 / 2024
REVISION 1 - CITY RESPONSE	05 / 17 / 2024
2 CITY & BRAND RESPONSE	06 / 14 / 2024

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Home 2 Suites By Hilton

Village at Discovery Park Lot 2
Lee's Summit, MO

AHU APPROVAL STAMP

SHEET TITLE

POWER PLAN - FIRST FLOOR

SHEET NUMBER

EP101

POWER PLAN SYMBOL LEGEND

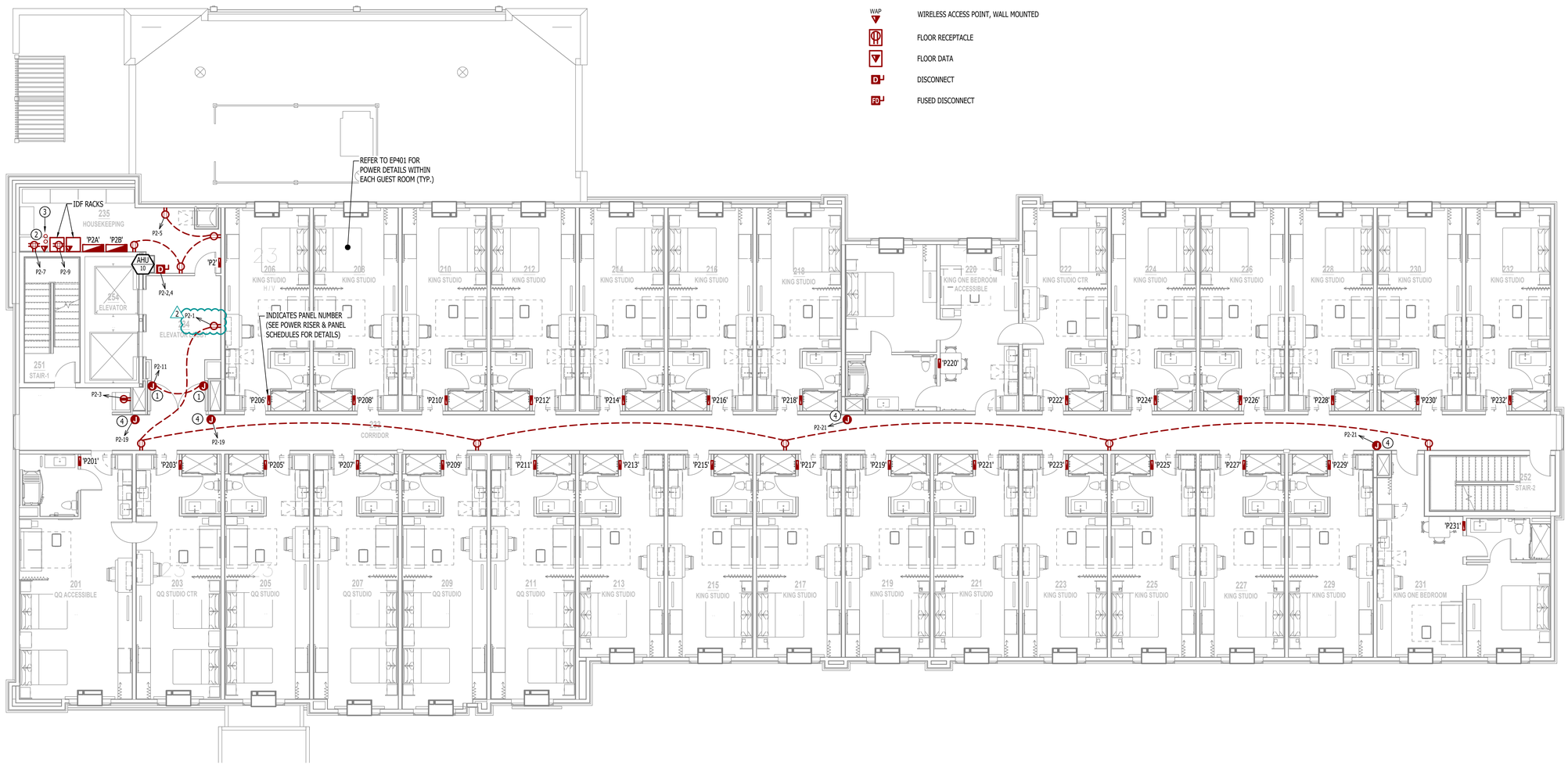
- CIRCUIT WIRING
- PX-XX — CIRCUIT TAG
- J — JUNCTION BOX
- XX … +42 — RECEPTACLE
  - INDICATES MOUNTING HEIGHT TO BOTTOM OF BOX (STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)
  - "WP" = WEATHERPROOF OUTDOOR RECEPTACLE
    "AW" = ABOVE WINDOW RECEPTACLE
    "AC" = ABOVE CEILING RECEPTACLE
    "IG" = ISOLATED GROUND
- GFCI DUPLEX CONVENIENCE RECEPTACLE
- 208V RECEPTACLE
- QUADPLEX CONVENIENCE RECEPTACLE
- U — USB OUTLET WITH USB-A & USB-C CHARGING PORT
- DATA / PHONE JACK BOX WITH 1" CONDUIT WITH CAT-6 (STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)
- AP — WIRELESS ACCESS POINT, CEILING MOUNTED
- WAP — WIRELESS ACCESS POINT, WALL MOUNTED
- FLOOR RECEPTACLE
- FLOOR DATA
- D — DISCONNECT
- FD — FUSED DISCONNECT

POWER PLAN GENERAL NOTES:

1. SEE E500 & E600 SERIES SHEETS FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES.

POWER PLAN KEY NOTES:

1. POWER FOR MAG-HOLDS; WIRE THRU FIRE ALARM SYSTEM, COORDINATE WITH DOOR HARDWARE SUPPLIER/INSTALLER.
2. POWER/DATA FOR IDF EQUIPMENT; COORDINATE EXACT LOCATION & REQUIREMENTS WITH LOW-VOLTAGE CONTRACTOR.
3. (2) 3" CONDUIT (EACH WITH PULL-STRING) FROM PBX ROOM ON MAIN LEVEL TO IDF RACK LOCATION.
4. POWER FOR FIRE/SMOKE DAMPER ACTIVATION (DAMPER TO CLOSE ON FIRE ALARM SIGNAL) COORDINATE EXACT LOCATION & REQUIREMENTS WITH HVAC CONTRACTOR & FIRE ALARM CONTRACTOR.



POWER PLAN - SECOND FLOOR

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

STATE OF MISSOURI
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J2 PROJECT No:	J21005
J2 DESIGN:	ACW

ISSUE TITLE	DATE
CITY SUBMISSION	04 / 17 / 2024
CITY & BRAND RESPONSE	06 / 14 / 2024

2

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Home 2 Suites By Hilton

Village at Discovery Park Lot 2
Lee's Summit, MO

AHJ APPROVAL STAMP

SHEET TITLE

POWER PLAN - SECOND FLOOR

SHEET NUMBER

EP102

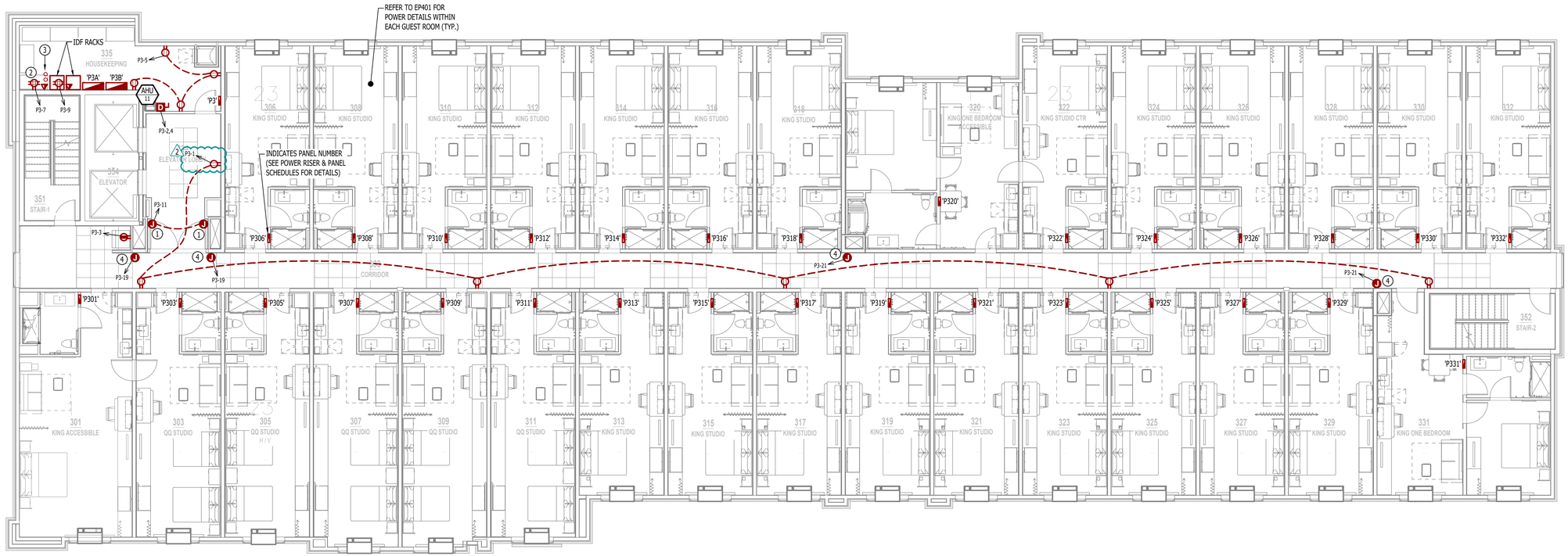
POWER PLAN SYMBOL LEGEND

- CIRCUIT WIRING
- PX-XX — CIRCUIT TAG
- J — JUNCTION BOX
- XX — RECEPTACLE
  - +42 — INDICATES MOUNTING HEIGHT TO BOTTOM OF BOX (STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)
  - "WP" = WEATHERPROOF OUTDOOR RECEPTACLE
    "AW" = ABOVE WINDOW RECEPTACLE
    "AC" = ABOVE CEILING RECEPTACLE
    "IG" = ISOLATED GROUND
- GFCI DUPLEX CONVENIENCE RECEPTACLE
- 208V RECEPTACLE
- QUADPLEX CONVENIENCE RECEPTACLE
- U — USB OUTLET WITH USB-A & USB-C CHARGING PORT
- DATA / PHONE JACK BOX WITH 1" CONDUIT WITH CAT-6 (STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)
- AP — WIRELESS ACCESS POINT, CEILING MOUNTED
- WAP — WIRELESS ACCESS POINT, WALL MOUNTED
- FLOOR RECEPTACLE
- FLOOR DATA
- D — DISCONNECT
- FD — FUSED DISCONNECT

1. SEE E500 & E600 SERIES SHEETS FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES.

POWER PLAN KEY NOTES:

1. POWER FOR MAG-HOLDS; WIRE THRU FIRE ALARM SYSTEM, COORDINATE WITH DOOR HARDWARE SUPPLIER/INSTALLER.
2. POWER/DATA FOR IDF EQUIPMENT; COORDINATE EXACT LOCATION & REQUIREMENTS WITH LOW-VOLTAGE CONTRACTOR.
3. (2) 3" CONDUIT (EACH WITH PULL-STRING) FROM PBX ROOM ON MAIN LEVEL TO IDF RACK LOCATION.
4. POWER FOR FIRE/SMOKE DAMPER ACTIVATION (DAMPER TO CLOSE ON FIRE ALARM SIGNAL) COORDINATE EXACT LOCATION & REQUIREMENTS WITH HVAC CONTRACTOR & FIRE ALARM CONTRACTOR.



POWER PLAN - THIRD FLOOR

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

STATE OF MISSOURI
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NUMBER PE-2015017071
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J2 PROJECT No:	J21005
J2 DESIGN:	ACW

ISSUE TITLE	DATE
CITY SUBMISSION	04 / 17 / 2024
CITY & BRAND RESPONSE	06 / 14 / 2024

2

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Home 2 Suites By Hilton

Village at Discovery Park Lot 2
Lee's Summit, MO

AHJ APPROVAL STAMP

SHEET TITLE

POWER PLAN - THIRD FLOOR

SHEET NUMBER

EP103

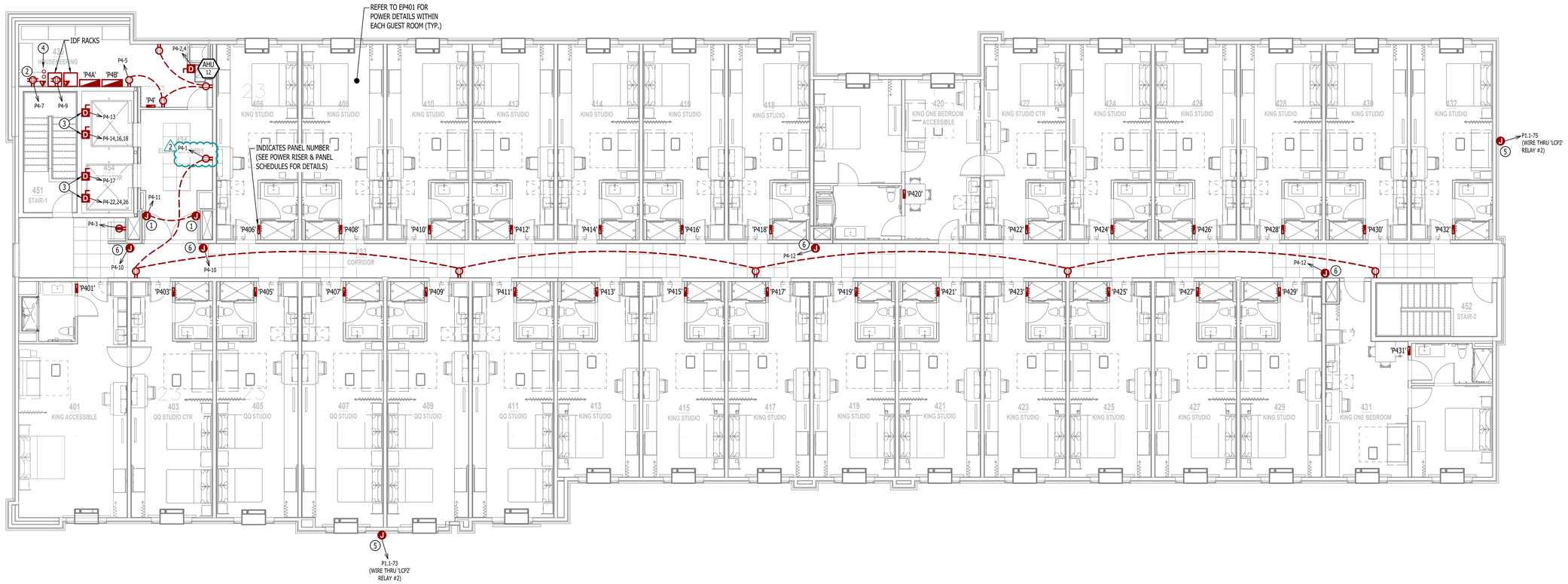
POWER PLAN SYMBOL LEGEND

- CIRCUIT WIRING
- PX-XX — CIRCUIT TAG
- J — JUNCTION BOX
- XX — RECEPTACLE
  - +42 — INDICATES MOUNTING HEIGHT TO BOTTOM OF BOX (STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)
  - "WP" = WEATHERPROOF OUTDOOR RECEPTACLE
    "AW" = ABOVE WINDOW RECEPTACLE
    "AC" = ABOVE CEILING RECEPTACLE
    "IG" = ISOLATED GROUND
- GFCI DUPLEX CONVENIENCE RECEPTACLE
- 208V RECEPTACLE
- QUADPLEX CONVENIENCE RECEPTACLE
- U — USB OUTLET WITH USB-A & USB-C CHARGING PORT
- DATA / PHONE JACK BOX WITH 1" CONDUIT WITH CAT-6 (STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)
- AP — WIRELESS ACCESS POINT, CEILING MOUNTED
- WAP — WIRELESS ACCESS POINT, WALL MOUNTED
- FLOOR RECEPTACLE
- FLOOR DATA
- D — DISCONNECT
- FD — FUSED DISCONNECT

1. SEE E500 & E600 SERIES SHEETS FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES.

POWER PLAN KEY NOTES:

1. POWER FOR MAG-HOLDS; WIRE THRU FIRE ALARM SYSTEM, COORDINATE WITH DOOR HARDWARE SUPPLIER/INSTALLER.
2. POWER/DATA FOR IDF EQUIPMENT; COORDINATE EXACT LOCATION & REQUIREMENTS WITH LOW-VOLTAGE CONTRACTOR.
3. ELEVATOR DISCONNECT(S) LOCATED IN SHAFT ON FOURTH FLOOR; COORDINATE LOCATION & DETAILS WITH ELEVATOR EQUIPMENT SUPPLIER/INSTALLER.
4. (2) 3" CONDUIT (EACH WITH PULL-STRING) FROM PBX ROOM ON MAIN LEVEL TO IDF RACK LOCATION.
5. POWER FOR EXTERIOR SIGNAGE; COORDINATE EXACT LOCATION & REQUIREMENTS WITH EQUIPMENT SUPPLIER/INSTALLER.
6. POWER FOR FIRE/SMOKE DAMPER ACTIVATION (DAMPER TO CLOSE ON FIRE ALARM SIGNAL) COORDINATE EXACT LOCATION & REQUIREMENTS WITH HVAC CONTRACTOR & FIRE ALARM CONTRACTOR.



POWER PLAN - FOURTH FLOOR

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

STATE OF MISSOURI
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J2 PROJECT No:	J21005
J2 DESIGN:	ACW

ISSUE TITLE	DATE
CITY SUBMISSION	04 / 17 / 2024
CITY & BRAND RESPONSE	06 / 14 / 2024

2

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Home 2 Suites By Hilton

Village at Discovery Park Lot 2
Lee's Summit, MO

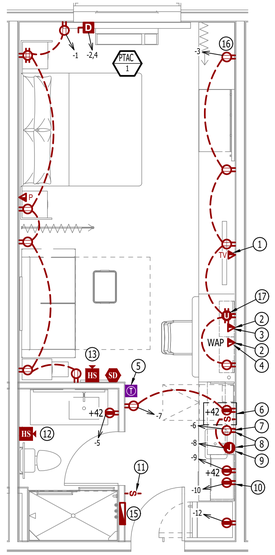
AHJ APPROVAL STAMP

SHEET TITLE

POWER PLAN - FOURTH FLOOR

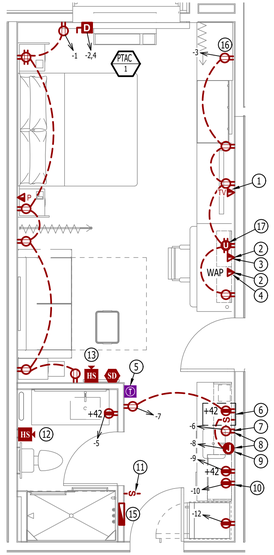
SHEET NUMBER

EP104



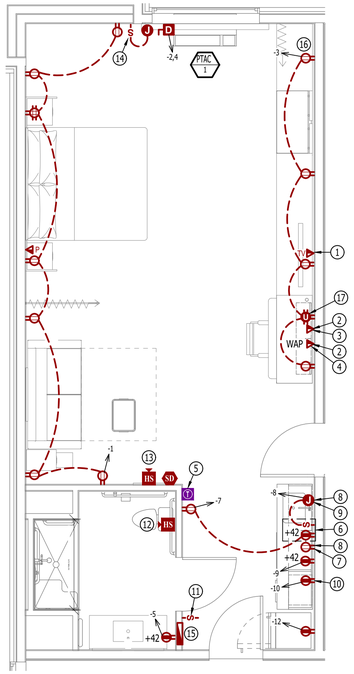
POWER PLAN - KING STUDIO

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



POWER PLAN - KING STUDIO - CONNECTOR

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



POWER PLAN - KING STUDIO - ACCESSIBLE

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

POWER PLAN SYMBOL LEGEND

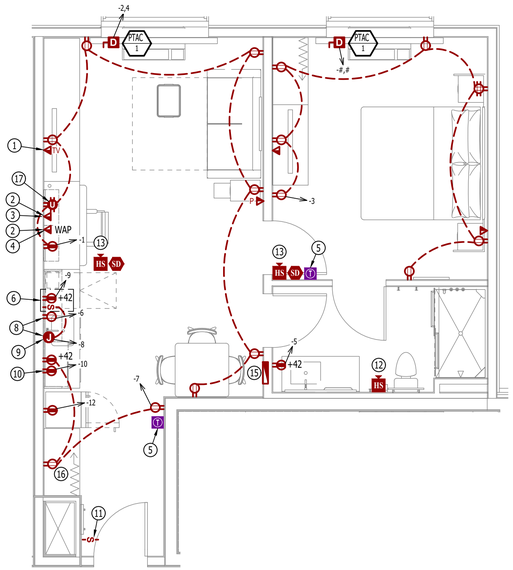
- CIRCUIT WIRING
- PX-XX — CIRCUIT TAG
- J — JUNCTION BOX
- XX +42 — RECEPTACLE; INDICATES MOUNTING HEIGHT TO BOTTOM OF BOX (STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)
  - "WP" = WEATHERPROOF OUTDOOR RECEPTACLE
  - "AW" = ABOVE WINDOW RECEPTACLE
  - "AC" = ABOVE CEILING RECEPTACLE
  - "IG" = ISOLATED GROUND
- GFCI DUPLEX CONVENIENCE RECEPTACLE
- 208V RECEPTACLE
- QUADPLEX CONVENIENCE RECEPTACLE
- USB OUTLET WITH USB-A & USB-C CHARGING PORT
- DATA / PHONE JACK BOX WITH 1" CONDUIT WITH CAT-6 (STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)
- AP — WIRELESS ACCESS POINT, CEILING MOUNTED
- WAP — WIRELESS ACCESS POINT, WALL MOUNTED
- FLOOR RECEPTACLE
- FLOOR DATA
- D — DISCONNECT
- FD — FUSED DISCONNECT
- 2 SD — ADDRESSABLE SMOKE DETECTOR WITH SOUNDER BASE; (ALARM SIGNAL MAY BE SUPERVISORY)

POWER PLAN GENERAL NOTES:

1. SEE E500 & E600 SERIES SHEET FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES.
2. COMPLETE (1) UNIT OF EACH TYPE & OBTAIN OWNER'S APPROVAL BEFORE PROCEEDING TO OTHERS.
3. DO NOT INSTALL OUTLETS BACK-TO-BACK EVEN IF ASSOCIATED WITH DIFFERENT SYSTEM. OFFSET BOXES TO PREVENT SOUND PASS-THRU AT ADJACENT UNIT WALLS.
4. COORDINATE LOCATION OF SWITCH & RECEPTACLES IN GUEST ROOM BATHROOMS WITH MIRROR, VANITY BACK-SPLASH, TOWEL HOLDER, ETC.
5. COORDINATE ALL ELECTRICAL DEVICE MOUNTING HEIGHTS & LOCATIONS WITH ARCHITECTURAL PLANS.
6. DOORBELL AND FIRE ALARM STROBES ARE ONLY REQUIRED IN HEARING IMPAIRED ROOMS.

POWER PLAN KEY NOTES:

1. TV CONNECTIONS FOR FREE-TO-GUEST CONTENT: COAX CABLE BEHIND TV, CAT6 RJ-45 JACK BEHIND TV (RUN IN SMURF TUBE IN WALL TO WAP UNDER DESK), & PATCH CORD TO EDGE CONTROLLER FOR CONNECTED ROOM (MIN. 6" CLEARANCE FROM WALL BOXES). VISIT HILTONHDTV.COM FOR ADDITIONAL INFORMATION.
2. EACH CABLE MUST HOMERUN BETWEEN THE GUESTROOM AND THE IDF ON EACH FLOOR. VISIT CONNECTEDROOM.HILTON.COM FOR CURRENT REQUIREMENTS AND OPTIONS.
3. WIRED DATA CONNECTION FOR GUEST USE: CAT6 RJ-45 CABLE JACK ABOVE DESK, RUN IN SMURF-TUBE IN WALL TO WAP UNDER DESK). (2)
4. WAP IN 3-GANG BOX MOUNTED VERTICALLY UNDER DESK. MAINTAIN 6" BETWEEN ALL BOXES, TYP ALL GUESTROOMS. COORDINATE WAP LOCATION WITH CASEGOODS TO AVOID CONFLICTS. VISIT CONNECTEDROOM.HILTON.COM FOR CURRENT WIRELESS INTERNET REQ'S AND LIST OF APPROVED INTEGRATORS.
5. WIRED THERMOSTAT FOR PTAC. MOUNTED 48" MAX TO TOP OF DEVICE. COMMUNICATION BETWEEN THERMOSTAT AND PTAC MAY BE WIRELESS.
6. SWITCH CONTROLLING GARBAGE DISPOSAL GANGED WITH DUPLEX - REFER TO HADG FOR ACCESSIBLE ROOM REQUIREMENTS.
7. DEDICATED CIRCUIT FOR DISHWASHER
8. EXTEND J-BOX, DEVICE & COVER PLATE FLUSH W/ MILLWORK BACK PANEL.
9. DEDICATED CIRCUIT FOR GARBAGE DISPOSAL.
10. OUTLET FOR MICROWAVE. REFER TO ARCHITECTURAL PLAN ROOM ELEVATIONS FOR MOUNTING HEIGHT. MOUNT DEVICE HORIZONTALLY (EXCEPT IN ACCESSIBLE UNITS); FACE PLATE TO BE WHITE.
11. DOORBELL ON/OFF SWITCH (COMMUNICATION FEATURES ROOMS ONLY) SIGNAGE AS REQ'D.
12. ADDITIONAL HORN STROBE: LOCATED IN COMMUNICATION FEATURES BATHROOMS ONLY. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS.
13. FIRE HORN IN STANDARD ROOMS. FIRE HORN/STROBE IN COMMUNICATION FEATURES ROOMS. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS.
14. SWITCHES CONTROLLING MECHANICAL SHADES - REFER TO FFE MANUAL.
15. REFER TO OVERALL ELECTRICAL PLANS FOR PANEL DETAILS ('PXXX').
16. RECEPTACLE MOUNTED HORIZONTALLY ABOVE CLOSET.
17. QUAD RECEPTACLE WITH A MINIMUM (1) USB RECEPTACLE(S) (EITHER -A OR -C).

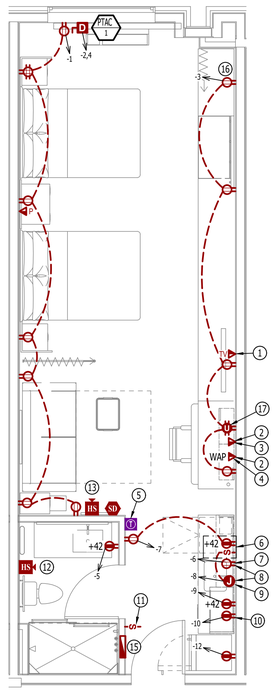


POWER PLAN - ONE BEDROOM SUITE

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

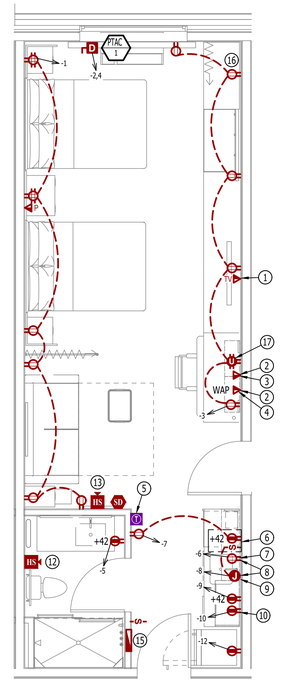
POWER PLAN - ONE BEDROOM SUITE - ACCESSIBLE

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



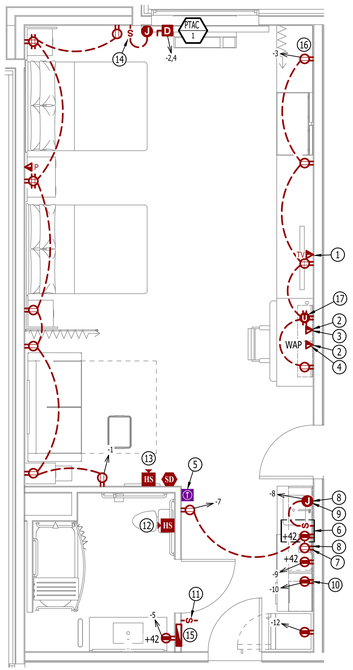
POWER PLAN - QUEEN QUEEN STUDIO

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



POWER PLAN - QUEEN QUEEN STUDIO - CONNECTOR

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



POWER PLAN - QUEEN QUEEN STUDIO - ACCESSIBLE

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

JAMES P. WATSON — NUMBER PE-2015017071 — PROFESSIONAL ENGINEER — STATE OF MISSOURI

James Watson, P.E. June 14, 2024
PE-2015017071
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J2 PROJECT No:	J21005
J2 DESIGN:	ACW

ISSUE TITLE	DATE
CITY SUBMISSION	04 / 17 / 2024
CITY & BRAND RESPONSE 2	06 / 14 / 2024

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Home 2 Suites By Hilton

Village at Discovery Park Lot 2
Lee's Summit, MO

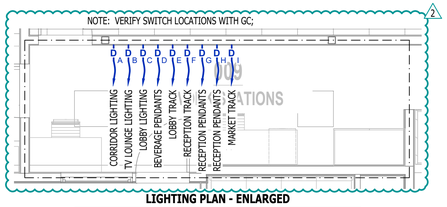
AHJ APPROVAL STAMP

SHEET TITLE

ENLARGED POWER PLAN - GUEST ROOMS

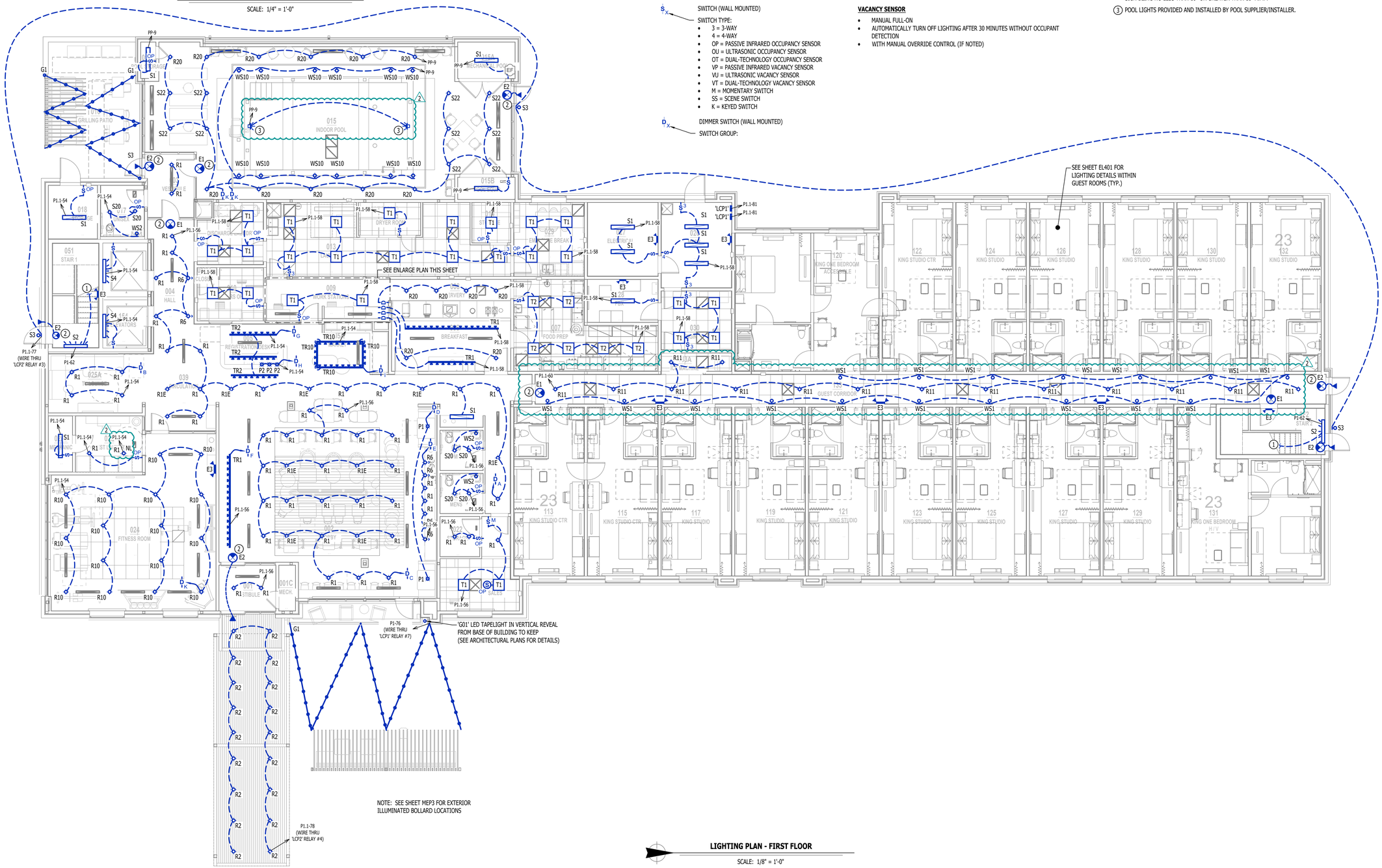
SHEET NUMBER

EP401



LIGHTING PLAN - ENLARGED

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



LIGHTING PLAN - FIRST FLOOR

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

LIGHTING PLAN SYMBOL LEGEND

- X1 — "X1" INDICATES FIXTURE TYPE (REFER TO SCHEDULE)
- LIGHTING FIXTURE
- EM — "EM" INDICATES EMERGENCY BATTERY BACKUP
- NL — "NL" INDICATES UN-SWITCHED NIGHT LIGHT
- EXIT LIGHT
- INDICATES REQUIRED REMOTE HEAD
- EMERGENCY EGRESS LIGHT
- SWITCH (WALL MOUNTED)
- SWITCH TYPE:
  - 3 = 3-WAY
  - 4 = 4-WAY
  - OP = PASSIVE INFRARED OCCUPANCY SENSOR
  - OU = ULTRASONIC OCCUPANCY SENSOR
  - OT = DUAL-TECHNOLOGY OCCUPANCY SENSOR
  - VP = PASSIVE INFRARED VACANCY SENSOR
  - VU = ULTRASONIC VACANCY SENSOR
  - VT = DUAL-TECHNOLOGY VACANCY SENSOR
  - M = MOMENTARY SWITCH
  - SS = SCENE SWITCH
  - K = KEYED SWITCH
- DIMMER SWITCH (WALL MOUNTED)
- SWITCH GROUP:
- SWITCH (CEILING MOUNTED)
- SWITCH TYPE:
  - SEE "SWITCH (WALL MOUNTED)" FOR TYPE DESIGNATIONS

OCCUPANCY SENSOR

- AUTO FULL-ON (OR 50% IF NOTED)
- AUTOMATICALLY TURN OFF LIGHTING AFTER 30 MINUTES WITHOUT OCCUPANT DETECTION
- WITH MANUAL OVERRIDE CONTROL (IF NOTED)

VACANCY SENSOR

- MANUAL FULL-ON
- AUTOMATICALLY TURN OFF LIGHTING AFTER 30 MINUTES WITHOUT OCCUPANT DETECTION
- WITH MANUAL OVERRIDE CONTROL (IF NOTED)

LIGHTING PLAN GENERAL NOTES:

1. SEE E500 & E600 SERIES SHEETS FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES.
2. OCCUPANCY / VACANCY SENSOR QUANTITIES AND GENERAL LOCATIONS SHOWN FOR REFERENCE ONLY. CONTRACTOR TO PROVIDE AND INSTALL SENSOR WITH SPACING PER MANUFACTURER SPECIFICATIONS AND INCLUDE ADDITIONAL SENSORS IF NECESSARY. CEILING-MOUNTED SENSORS SHALL BE INSTALLED WITHIN MANUFACTURE'S ACCEPTABLE MOUNTING HEIGHT RANGE.
3. REFER TO ARCHITECTURAL RCP'S FOR EXACT FIXTURE LOCATIONS & REQUIREMENTS.
4. VERIFY FIXTURE LOCATIONS WITH BRAND/GC PRIOR TO ROUGH-IN.

LIGHTING PLAN KEY NOTES:

1. CIRCUIT CONTINUES TO LEVEL ABOVE.
2. (1) EXIT SIGN AT STANDARD OVERHEAD MOUNTING HEIGHT & (1) EXIT SIGN AT FLOOR LEVEL WITH BOTTOM OF SIGN BEING NO LESS THAN 10" OR GREATER THAN 18" A.F.F.
3. POOL LIGHTS PROVIDED AND INSTALLED BY POOL SUPPLIER/INSTALLER.

STATE OF MISSOURI
JAMES P. WATSON
NUMBER PE-2015017071
PROFESSIONAL ENGINEER

James Watson, P.E. June 14, 2024
PE-2015017071
MO Certificate of Authority # 2018029680

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J2 PROJECT No:	J21005
J2 DESIGN:	ACW

ISSUE TITLE	DATE
CITY SUBMISSION	04 / 17 / 2024
REVISION 1 - CITY RESPONSE	05 / 17 / 2024
CITY & BRAND RESPONSE	06 / 14 / 2024

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Home 2 Suites By Hilton

Village at Discovery Park Lot 2
Lee's Summit, MO

AHU APPROVAL STAMP

SHEET TITLE

LIGHTING PLAN - FIRST FLOOR

SHEET NUMBER

EL101

LIGHTING PLAN SYMBOL LEGEND

- X1 — "X1" INDICATES FIXTURE TYPE (REFER TO SCHEDULE)
- LIGHTING FIXTURE
- EM — "EM" INDICATES EMERGENCY BATTERY BACKUP
- NL — "NL" INDICATES UN-SWITCHED NIGHT LIGHT
- EXIT LIGHT
- INDICATES REQUIRED REMOTE HEAD
- EMERGENCY EGRESS LIGHT
- SWITCH (WALL MOUNTED)
- SWITCH TYPE:
  - 3 = 3-WAY
  - 4 = 4-WAY
  - OP = PASSIVE INFRARED OCCUPANCY SENSOR
  - OU = ULTRASONIC OCCUPANCY SENSOR
  - OT = DUAL-TECHNOLOGY OCCUPANCY SENSOR
  - VP = PASSIVE INFRARED VACANCY SENSOR
  - VU = ULTRASONIC VACANCY SENSOR
  - VT = DUAL-TECHNOLOGY VACANCY SENSOR
  - M = MOMENTARY SWITCH
  - SS = SCENE SWITCH
  - K = KEYED SWITCH
- DIMMER SWITCH (WALL MOUNTED)
- SWITCH GROUP:
- SWITCH (CEILING MOUNTED)
- SWITCH TYPE:
  - SEE "SWITCH (WALL MOUNTED)" FOR TYPE DESIGNATIONS

OCCUPANCY SENSOR

- AUTO FULL-ON (OR 50% IF NOTED)
- AUTOMATICALLY TURN OFF LIGHTING AFTER 30 MINUTES WITHOUT OCCUPANT DETECTION
- WITH MANUAL OVERRIDE CONTROL (IF NOTED)

VACANCY SENSOR

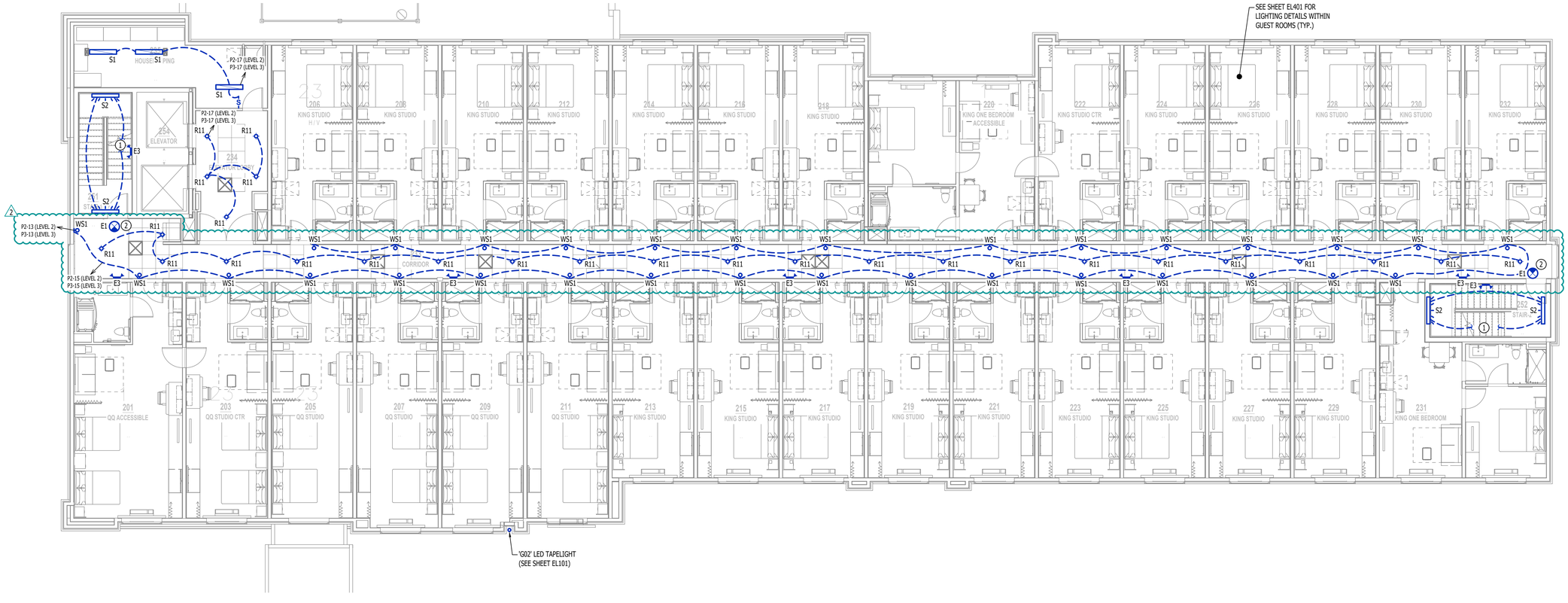
- MANUAL FULL-ON
- AUTOMATICALLY TURN OFF LIGHTING AFTER 30 MINUTES WITHOUT OCCUPANT DETECTION
- WITH MANUAL OVERRIDE CONTROL (IF NOTED)

LIGHTING PLAN GENERAL NOTES:

1. SEE E500 & E600 SERIES SHEETS FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES.
2. OCCUPANCY / VACANCY SENSOR QUANTITIES AND GENERAL LOCATIONS SHOWN FOR REFERENCE ONLY. CONTRACTOR TO PROVIDE AND INSTALL SENSOR WITH SPACING PER MANUFACTURER SPECIFICATIONS AND INCLUDE ADDITIONAL SENSORS IF NECESSARY. CEILING-MOUNTED SENSORS SHALL BE INSTALLED WITHIN MANUFACTURE'S ACCEPTABLE MOUNTING HEIGHT RANGE.
3. REFER TO ARCHITECTURAL RCP'S FOR EXACT FIXTURE LOCATIONS & REQUIREMENTS.
4. VERIFY FIXTURE LOCATIONS WITH BRAND/GC PRIOR TO ROUGH-IN.

LIGHTING PLAN KEY NOTES:

1. CIRCUIT CONTINUES TO LEVEL ABOVE/BELOW.
2. (1) EXIT SIGN AT STANDARD OVERHEAD MOUNTING HEIGHT & (1) EXIT SIGN AT FLOOR LEVEL WITH BOTTOM OF SIGN BEING NO LESS THAN 10" OR GREATER THAN 18" A.F.F.



LIGHTING PLAN - SECOND & THIRD FLOORS

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

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J2 PROJECT No:	J21005
J2 DESIGN:	ACW

ISSUE TITLE	DATE
CITY SUBMISSION	04 / 17 / 2024
CITY & BRAND RESPONSE	06 / 14 / 2024

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Home 2 Suites By Hilton

Village at Discovery Park Lot 2
Lee's Summit, MO

AHU APPROVAL STAMP

SHEET TITLE

LIGHTING PLAN - SECOND & THIRD FLOORS

SHEET NUMBER

EL102

LIGHTING PLAN SYMBOL LEGEND

- X1 — "X1" INDICATES FIXTURE TYPE (REFER TO SCHEDULE)
- LIGHTING FIXTURE
- EM — "EM" INDICATES EMERGENCY BATTERY BACKUP
- NL — "NL" INDICATES UN-SWITCHED NIGHT LIGHT
- EXIT LIGHT
- INDICATES REQUIRED REMOTE HEAD
- EMERGENCY EGRESS LIGHT
- SX — SWITCH (WALL MOUNTED)
  - SWITCH TYPE:
    - 3 = 3-WAY
    - 4 = 4-WAY
    - OP = PASSIVE INFRARED OCCUPANCY SENSOR
    - OU = ULTRASONIC OCCUPANCY SENSOR
    - OT = DUAL-TECHNOLOGY OCCUPANCY SENSOR
    - VP = PASSIVE INFRARED VACANCY SENSOR
    - VU = ULTRASONIC VACANCY SENSOR
    - VT = DUAL-TECHNOLOGY VACANCY SENSOR
    - M = MOMENTARY SWITCH
    - SS = SCENE SWITCH
    - K = KEYED SWITCH
- DX — DIMMER SWITCH (WALL MOUNTED)
- SWITCH GROUP:
- SX — SWITCH (CEILING MOUNTED)
- SWITCH TYPE:
  - SEE "SWITCH (WALL MOUNTED)" FOR TYPE DESIGNATIONS

OCCUPANCY SENSOR

- AUTO FULL-ON (OR 50% IF NOTED)
- AUTOMATICALLY TURN OFF LIGHTING AFTER 30 MINUTES WITHOUT OCCUPANT DETECTION
- WITH MANUAL OVERRIDE CONTROL (IF NOTED)

VACANCY SENSOR

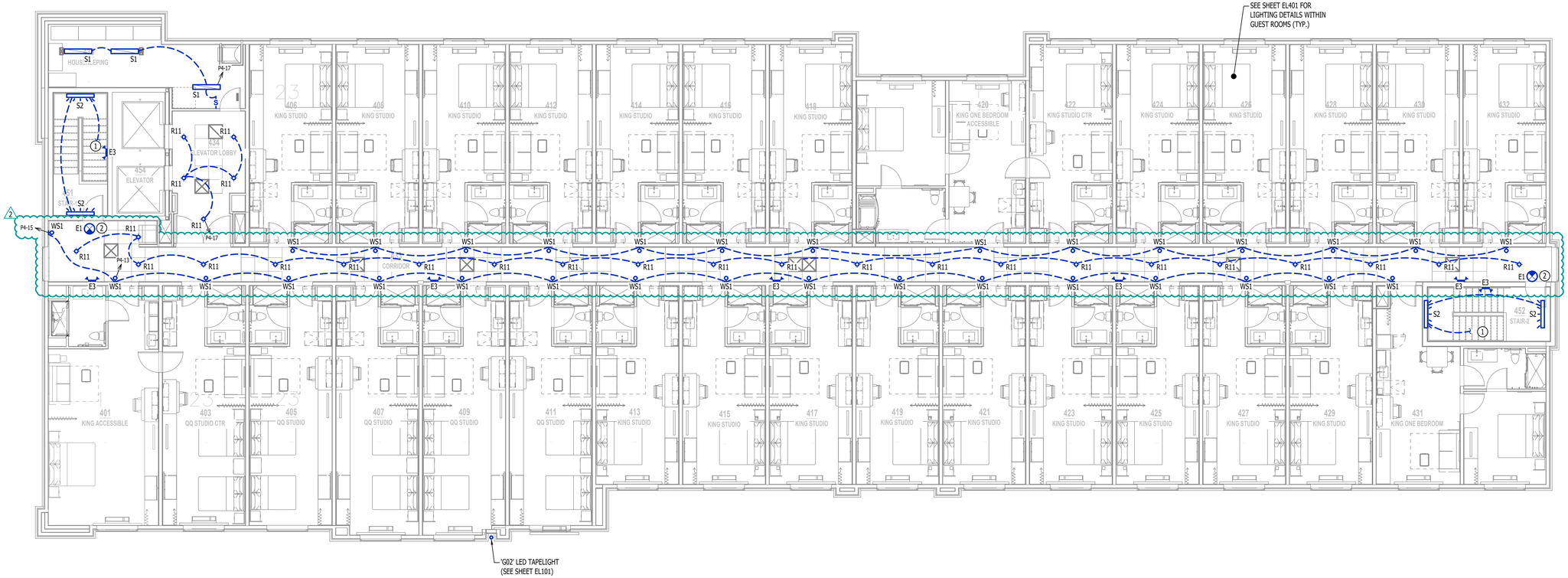
- MANUAL FULL-ON
- AUTOMATICALLY TURN OFF LIGHTING AFTER 30 MINUTES WITHOUT OCCUPANT DETECTION
- WITH MANUAL OVERRIDE CONTROL (IF NOTED)

LIGHTING PLAN GENERAL NOTES:

1. SEE E500 & E600 SERIES SHEETS FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES.
2. OCCUPANCY / VACANCY SENSOR QUANTITIES AND GENERAL LOCATIONS SHOWN FOR REFERENCE ONLY. CONTRACTOR TO PROVIDE AND INSTALL SENSOR WITH SPACING PER MANUFACTURER SPECIFICATIONS AND INCLUDE ADDITIONAL SENSORS IF NECESSARY. CEILING-MOUNTED SENSORS SHALL BE INSTALLED WITHIN MANUFACTURE'S ACCEPTABLE MOUNTING HEIGHT RANGE.
3. REFER TO ARCHITECTURAL RCP'S FOR EXACT FIXTURE LOCATIONS & REQUIREMENTS.
4. VERIFY FIXTURE LOCATIONS WITH BRAND/GC PRIOR TO ROUGH-IN.

LIGHTING PLAN KEY NOTES:

1. CIRCUIT CONTINUES TO LEVEL BELOW.
2. (1) EXIT SIGN AT STANDARD OVERHEAD MOUNTING HEIGHT & (1) EXIT SIGN AT FLOOR LEVEL WITH BOTTOM OF SIGN BEING NO LESS THAN 10" OR GREATER THAN 18" A.F.F.



LIGHTING PLAN - FOURTH FLOOR

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

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J2 PROJECT No:	J21005
J2 DESIGN:	ACW

ISSUE TITLE	DATE
CITY SUBMISSION	04 / 17 / 2024
CITY & BRAND RESPONSE	06 / 14 / 2024

2

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Home 2 Suites By Hilton

Village at Discovery Park Lot 2
Lee's Summit, MO

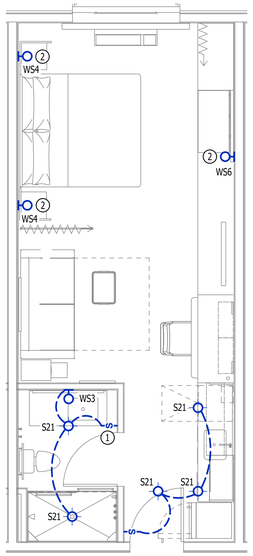
AHJ APPROVAL STAMP

SHEET TITLE

LIGHTING PLAN - FOURTH FLOOR

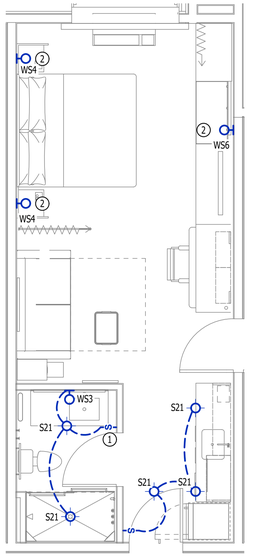
SHEET NUMBER

EL103



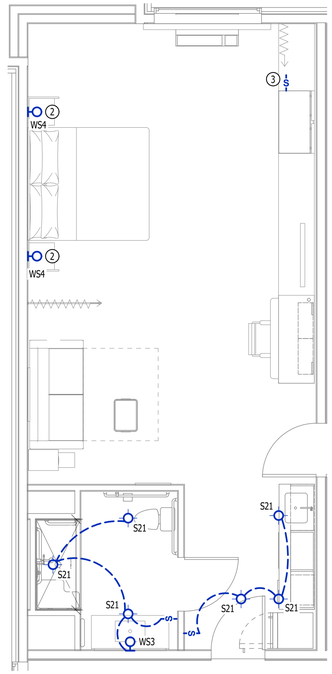
LIGHTING PLAN - KING STUDIO

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



LIGHTING PLAN - KING STUDIO - CONNECTOR

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



LIGHTING PLAN - KING STUDIO - ACCESSIBLE

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

LIGHTING PLAN SYMBOL LEGEND

X1 / EM / NL — "X1" INDICATES FIXTURE TYPE (REFER TO SCHEDULE)

LIGHTING FIXTURE

"EM" INDICATES EMERGENCY BATTERY BACKUP

"NL" INDICATES UN-SWITCHED NIGHT LIGHT

EXIT LIGHT

INDICATES REQUIRED REMOTE HEAD

EMERGENCY EGRESS LIGHT

SX — SWITCH (WALL MOUNTED)

SWITCH TYPE:

- 3 = 3-WAY
- 4 = 4-WAY
- OP = PASSIVE INFRARED OCCUPANCY SENSOR
- OU = ULTRASONIC OCCUPANCY SENSOR
- OT = DUAL-TECHNOLOGY OCCUPANCY SENSOR
- VP = PASSIVE INFRARED VACANCY SENSOR
- VU = ULTRASONIC VACANCY SENSOR
- VT = DUAL-TECHNOLOGY VACANCY SENSOR
- M = MOMENTARY SWITCH
- SS = SCENE SWITCH
- K = KEYED SWITCH

DX — DIMMER SWITCH (WALL MOUNTED)

SWITCH GROUP:

(S)X — SWITCH (CEILING MOUNTED)

SWITCH TYPE:

- SEE "SWITCH (WALL MOUNTED)" FOR TYPE DESIGNATIONS

OCCUPANCY SENSOR

- AUTO FULL-ON (OR 50% IF NOTED)
- AUTOMATICALLY TURN OFF LIGHTING AFTER 30 MINUTES WITHOUT OCCUPANT DETECTION
- WITH MANUAL OVERRIDE CONTROL (IF NOTED)

VACANCY SENSOR

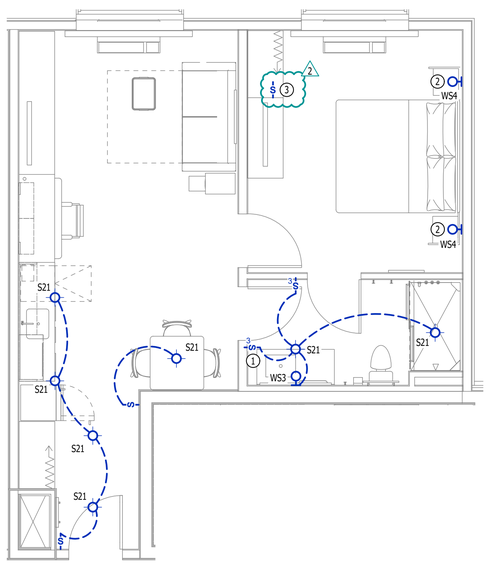
- MANUAL FULL-ON
- AUTOMATICALLY TURN OFF LIGHTING AFTER 30 MINUTES WITHOUT OCCUPANT DETECTION
- WITH MANUAL OVERRIDE CONTROL (IF NOTED)

LIGHTING PLAN GENERAL NOTES:

1. SEE E500 & E600 SERIES SHEETS FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES.
2. OCCUPANCY / VACANCY SENSOR QUANTITIES AND GENERAL LOCATIONS SHOWN FOR REFERENCE ONLY. CONTRACTOR TO PROVIDE AND INSTALL SENSOR WITH SPACING PER MANUFACTURER SPECIFICATIONS AND INCLUDE ADDITIONAL SENSORS IF NECESSARY. CEILING-MOUNTED SENSORS SHALL BE INSTALLED WITHIN MANUFACTURE'S ACCEPTABLE MOUNTING HEIGHT RANGE.
3. REFER TO ARCHITECTURAL RCP'S FOR EXACT FIXTURE LOCATIONS & REQUIREMENTS.
4. VERIFY FIXTURE LOCATIONS WITH BRAND/GC PRIOR TO ROUGH-IN.

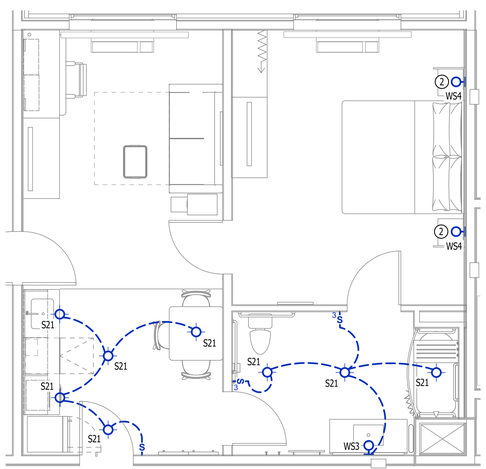
LIGHTING PLAN KEY NOTES:

1. IN BATHROOM LOCATIONS ONLY, LIGHT SWITCH EQUIPPED WITH NIGHTLIGHT MOUNTED SO TOP OF SWITCH IS 48" MAX A.F.F
2. PLUG IN FIXTURE WITH INTEGRAL ON/OFF SWITCH.
3. FF&E IN-LINE CLOSET LIGHT SWITCH ATTACHED AT INSIDE CLOSET PANEL TO CONTROL PLUG-IN FIXTURE MOUNTED INSIDE OF CLOSET (ACCESSIBLE UNITS ONLY).



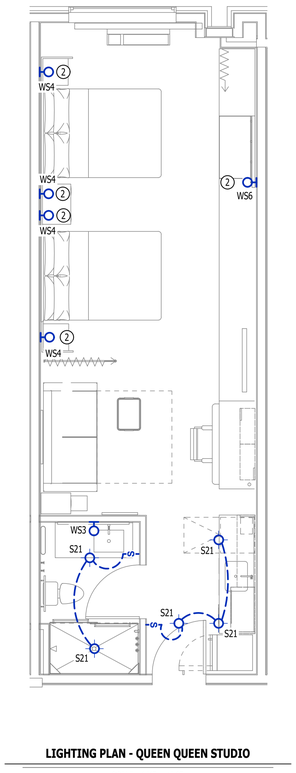
LIGHTING PLAN - ONE BEDROOM SUITE

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



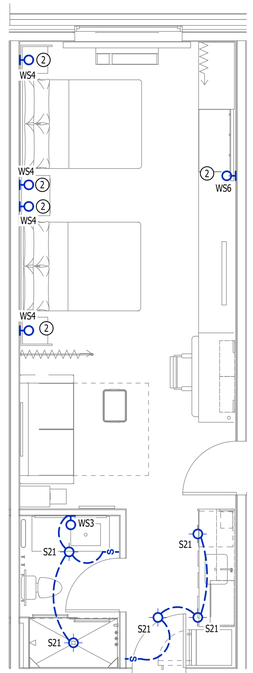
LIGHTING PLAN - ONE BEDROOM SUITE - ACCESSIBLE

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



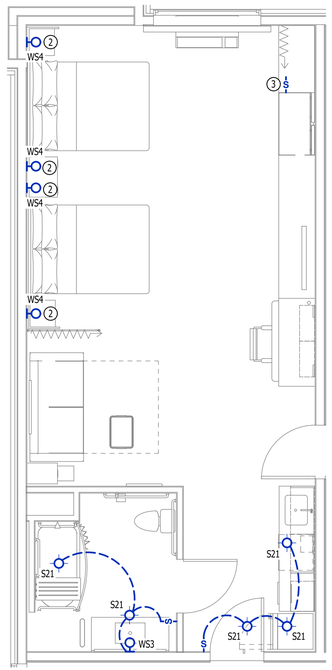
LIGHTING PLAN - QUEEN QUEEN STUDIO

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



LIGHTING PLAN - QUEEN QUEEN STUDIO - CONNECTOR

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



LIGHTING PLAN - QUEEN QUEEN STUDIO - ACCESSIBLE

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

STATE OF MISSOURI
JAMES P. WATSON
NUMBER PE-2015017071
PROFESSIONAL ENGINEER

James Watson, P.E. June 14, 2024
PE-2015017071
MO Certificate of Authority # 2018029680

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J2 PROJECT No:	J21005
J2 DESIGN:	ACW

ISSUE TITLE	DATE
CITY SUBMISSION	04 / 17 / 2024
CITY & BRAND RESPONSE	06 / 14 / 2024

2

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Home 2 Suites By Hilton

Village at Discovery Park Lot 2
Lee's Summit, MO

AHJ APPROVAL STAMP

SHEET TITLE

ENLARGED LIGHTING PLAN - GUEST ROOMS

SHEET NUMBER

EL401

FIRE ALARM SYSTEM SPECIFICATIONS

1. FIRE ALARM SYSTEM SHALL BE AN ADDRESSABLE SYSTEM THAT IS NONCODED, UL-LISTED, WITH MULTIPLEX SIGNAL TRANSMISSION AND HORN/STROBE EVACUATION.
2. EVERY FIRE ALARM SYSTEM COMPONENT SHALL BE UL-LISTED AND UL-CERTIFIED, TESTED BY MANUFACTURERS AS A COMPLETE SYSTEM, AND MEET ALL APPLICABLE REQUIREMENTS OF NFPA 72.
3. ALL FIRE ALARM WIRING TO BE PLENUM RATED.
4. ALL INITIATING DEVICES INSTALLED IN UNCONDITIONED SPACES SHALL BE CONVENTIONAL DEVICES SUITABLE FOR USE IN EXTREME HIGH AND LOW TEMPERATURES AND HIGH HUMIDITY. SUCH DEVICES SHALL BE SUPERVISED BY ADDRESSABLE MONITOR MODULES LOCATED IN CONDITIONED SPACES.
5. QUANTITIES, TYPES, AND LOCATIONS OF INITIATING DEVICES AND OUTPUT MODULES FOR INTERCONNECTION WITH FIRE SUPPRESSION MUST BE COORDINATED WITH CONTRACTORS THAT ARE RESPONSIBLE FOR THOSE SYSTEMS.

FIRE ALARM DEVICE TYPICAL LOCATIONS:

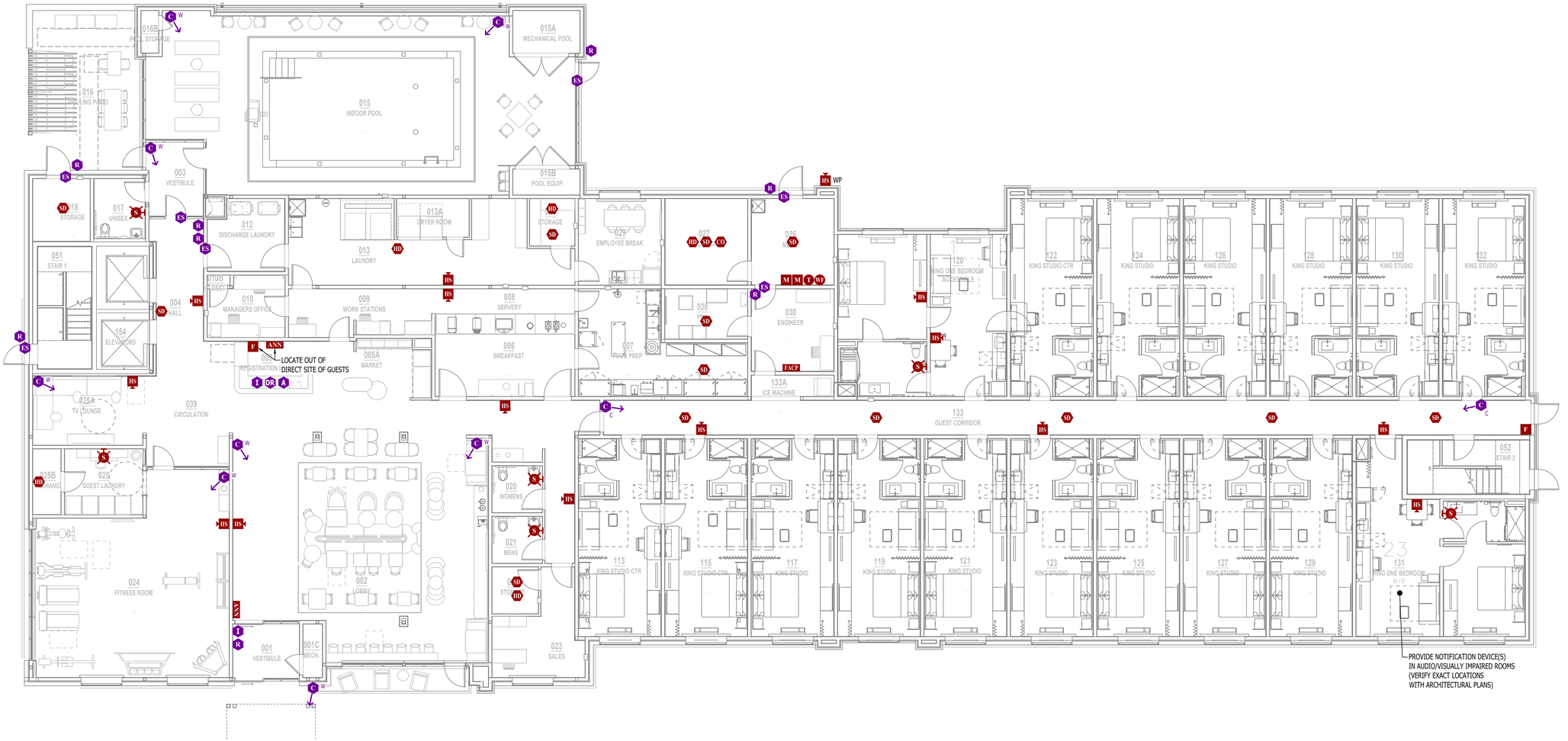
1. VERIFY EXACT LOCATIONS WITH LATEST NFPA REQUIREMENTS;
2. CEILING MOUNTED SMOKE / HEAT DETECTORS:
   - 2.1. MUST BE MOUNTED AT LEAST 36" FROM HVAC GRILLES / DIFFUSERS
   - 2.2. MUST BE LOCATED AT LEAST 4" FROM WALL/CEILING INTERSECTIONS (MEASURED FROM EDGE OF DEVICE)
3. WALL MOUNTED SMOKE / HEAT DETECTORS:
   - 3.1. MUST BE LOCATED AT LEAST 4" FROM WALL/CEILING INTERSECTIONS (MEASURED FROM EDGE OF DEVICE)
   - 3.2. MUST BE LOCATED WITHIN AT LEAST 12" FROM WALL/CEILING INTERSECTION (MEASURED FROM EDGE OF DEVICE)
4. MANUAL PULL STATIONS:
   - 4.1. MUST BE LOCATED WITHIN 5' OF EXTERIOR DOORWAY (MEASURED FROM CENTER OF PULL STATION TO NEAREST EDGE OF DOOR)
   - 4.2. MUST BE LOCATED BETWEEN 42" AND 54" A.F.F. (MEASURED FROM FINISH FLOOR TO CENTER OFF PULL STATION)
5. MAGNETIC DOOR HOLDER:
   - 5.1. MUST BE LOCATED 6" BELOW TOP OF DOOR (MEASURED FROM TOP OF DOOR TO TOP OF DOOR HOLDER)
   - 5.2. MUST BE LOCATED DOOR WIDTH MINUS THREE INCHES FROM DOOR (MEASURED FROM NEAREST EDGE OF HOLDER TO NEAREST EDGE OF DOOR).
6. FIRE ALARM CONTROL PANEL:
   - 6.1. MUST BE LOCATED AT MAXIMUM OF 72" A.F.F. (MEASURED FROM FINISH FLOOR TO TOP OF FIRE ALARM CONTROL PANEL)
7. FIRE ALARM ANNUNCIATOR:
   - 7.1. MUST BE LOCATED AT MAXIMUM OF 60" A.F.F. (MEASURED FROM FINISH FLOOR TO TOP OF FIRE ALARM ANNUNCIATOR PANEL)
8. WALL MOUNTED STROBE DEVICES (VISUAL ONLY):
   - 8.1. MUST BE LOCATED AT 84" A.F.F. (MEASURED FROM FINISH FLOOR TO BOTTOM OF BACK BOX)
   - 8.2. MUST BE LOCATED AT MOST 24" FROM WALL/CEILING INTERSECTION WITHIN HANDICAP BEDROOMS (MEASURED FROM WALL/CEILING INTERSECTION TO BOTTOM OF BACK BOX)
9. WALL-MOUNTED HORN / STROBE DEVICES (AUDIBLE & VISUAL):
   - 9.1. MUST BE LOCATED AT 84" A.F.F. (MEASURED FROM FINISH FLOOR TO BOTTOM OF BACK BOX)

FIRE ALARM PLAN SYMBOL LEGEND

F	MANUAL PULL STATION
M	MODULE
O	OUTPUT MODULE
SD	SMOKE DETECTOR
HD	HEAT DETECTOR
CO	CARBON MONOXIDE DETECTOR
S	STROBE - CEILING MOUNT
S	STROBE - WALL MOUNT
HS	HORN STROBE - WALL MOUNT
HS	HORN STROBE - CEILING MOUNT
SS	SPEAKER STROBE - WALL MOUNT
SS	SPEAKER STROBE - CEILING MOUNT
T	TAMPER SWITCH
WF	WATER FLOW SWITCH
FACP	FIRE ALARM CONTROL PANEL
ANN	FIRE ALARM ANNUNCIATOR

SECURITY PLAN SYMBOL LEGEND

R	READER
M	MOTION DETECTOR
KP	ALARM KEYPAD
DC	DOOR CONTACT
P	PANIC
GB	GLASS BREAK SENSOR
ES	ELECTRIC STRIKE
I	INTERCOM
DR	DOOR RELEASE
A	DURESS ALARM BUTTON
BURG	BURGLAR PANEL
C W	WALL MOUNT CAMERA (ARROW INDICATES VIEW DIRECTION)
C C	CEILING MOUNT CAMERA (ARROW INDICATES VIEW DIRECTION)



FIRE ALARM AND SECURITY PLAN - FIRST FLOOR

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

STATE OF MISSOURI
JAMES P. WATSON
NUMBER PE-2015017071
PROFESSIONAL ENGINEER

James Watson, P.E. April 17, 2024
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J2 PROJECT No: J21005

J2 DESIGN: ACW

ISSUE TITLE	DATE
CITY SUBMISSION	04 / 17 / 2024

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Home 2 Suites By Hilton

Village at Discovery Park Lot 2
Lee's Summit, MO

AHJ APPROVAL STAMP

SHEET TITLE

FIRE ALARM AND SECURITY PLAN - FIRST FLOOR

SHEET NUMBER

FS101

FIRE ALARM SYSTEM SPECIFICATIONS

1. FIRE ALARM SYSTEM SHALL BE AN ADDRESSABLE SYSTEM THAT IS NONCODED, UL-LISTED, WITH MULTIPLEX SIGNAL TRANSMISSION AND HORN/STROBE EVACUATION.
2. EVERY FIRE ALARM SYSTEM COMPONENT SHALL BE UL-LISTED AND UL-CERTIFIED, TESTED BY MANUFACTURERS AS A COMPLETE SYSTEM, AND MEET ALL APPLICABLE REQUIREMENTS OF NFPA 72.
3. ALL FIRE ALARM WIRING TO BE PLENUM RATED.
4. ALL INITIATING DEVICES INSTALLED IN UNCONDITIONED SPACES SHALL BE CONVENTIONAL DEVICES SUITABLE FOR USE IN EXTREME HIGH AND LOW TEMPERATURES AND HIGH HUMIDITY. SUCH DEVICES SHALL BE SUPERVISED BY ADDRESSABLE MONITOR MODULES LOCATED IN CONDITIONED SPACES.
5. QUANTITIES, TYPES, AND LOCATIONS OF INITIATING DEVICES AND OUTPUT MODULES FOR INTERCONNECTION WITH FIRE SUPPRESSION MUST BE COORDINATED WITH CONTRACTORS THAT ARE RESPONSIBLE FOR THOSE SYSTEMS.

FIRE ALARM DEVICE TYPICAL LOCATIONS:

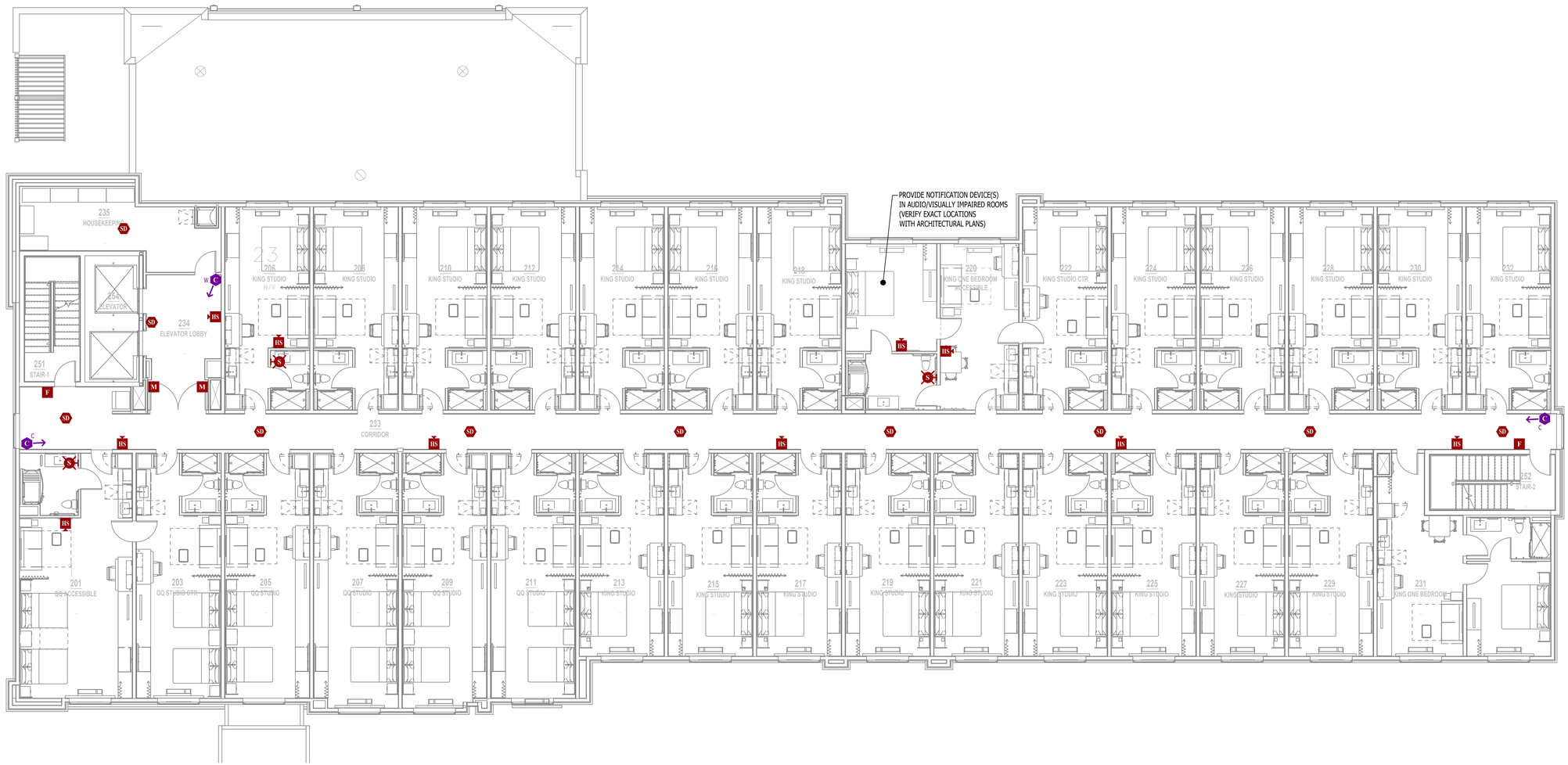
1. VERIFY EXACT LOCATIONS WITH LATEST NFPA REQUIREMENTS;
2. CEILING MOUNTED SMOKE / HEAT DETECTORS:
   - 2.1. MUST BE MOUNTED AT LEAST 36" FROM HVAC GRILLES / DIFFUSERS
   - 2.2. MUST BE LOCATED AT LEAST 4" FROM WALL/CEILING INTERSECTIONS (MEASURED FROM EDGE OF DEVICE)
3. WALL MOUNTED SMOKE / HEAT DETECTORS:
   - 3.1. MUST BE LOCATED AT LEAST 4" FROM WALL/CEILING INTERSECTIONS (MEASURED FROM EDGE OF DEVICE)
   - 3.2. MUST BE LOCATED WITHIN AT LEAST 12" FROM WALL/CEILING INTERSECTION (MEASURED FROM EDGE OF DEVICE)
4. MANUAL PULL STATIONS:
   - 4.1. MUST BE LOCATED WITHIN 5' OF EXTERIOR DOORWAY (MEASURED FROM CENTER OF PULL STATION TO NEAREST EDGE OF DOOR)
   - 4.2. MUST BE LOCATED BETWEEN 42" AND 54" A.F.F. (MEASURED FROM FINISH FLOOR TO CENTER OFF PULL STATION)
5. MAGNETIC DOOR HOLDER:
   - 5.1. MUST BE LOCATED 6" BELOW TOP OF DOOR (MEASURED FROM TOP OF DOOR TO TOP OF DOOR HOLDER)
   - 5.2. MUST BE LOCATED DOOR WIDTH MINUS THREE INCHES FROM DOOR (MEASURED FROM NEAREST EDGE OF HOLDER TO NEAREST EDGE OF DOOR).
6. FIRE ALARM CONTROL PANEL:
   - 6.1. MUST BE LOCATED AT MAXIMUM OF 72" A.F.F. (MEASURED FROM FINISH FLOOR TO TOP OF FIRE ALARM CONTROL PANEL)
7. FIRE ALARM ANNUNCIATOR:
   - 7.1. MUST BE LOCATED AT MAXIMUM OF 60" A.F.F. (MEASURED FROM FINISH FLOOR TO TOP OF FIRE ALARM ANNUNCIATOR PANEL)
8. WALL MOUNTED STROBE DEVICES (VISUAL ONLY):
   - 8.1. MUST BE LOCATED AT 84" A.F.F. (MEASURED FROM FINISH FLOOR TO BOTTOM OF BACK BOX)
   - 8.2. MUST BE LOCATED AT MOST 24" FROM WALL/CEILING INTERSECTION WITHIN HANDICAP BEDROOMS (MEASURED FROM WALL/CEILING INTERSECTION TO BOTTOM OF BACK BOX)
9. WALL-MOUNTED HORN / STROBE DEVICES (AUDIBLE & VISUAL):
   - 9.1. MUST BE LOCATED AT 84" A.F.F. (MEASURED FROM FINISH FLOOR TO BOTTOM OF BACK BOX)

FIRE ALARM PLAN SYMBOL LEGEND

F	MANUAL PULL STATION
M	MODULE
O	OUTPUT MODULE
SD	SMOKE DETECTOR
HD	HEAT DETECTOR
CO	CARBON MONOXIDE DETECTOR
S	STROBE - CEILING MOUNT
S	STROBE - WALL MOUNT
HS	HORN STROBE - WALL MOUNT
HS	HORN STROBE - CEILING MOUNT
SS	SPEAKER STROBE - WALL MOUNT
SS	SPEAKER STROBE - CEILING MOUNT
T	TAMPER SWITCH
WF	WATER FLOW SWITCH
FACP	FIRE ALARM CONTROL PANEL
ANN	FIRE ALARM ANNUNCIATOR

SECURITY PLAN SYMBOL LEGEND

R	READER
M	MOTION DETECTOR
KP	ALARM KEYPAD
DC	DOOR CONTACT
P	PANIC
GB	GLASS BREAK SENSOR
ES	ELECTRIC STRIKE
I	INTERCOM
DR	DOOR RELEASE
A	DURESS ALARM BUTTON
BURG	BURGLAR PANEL
C W	WALL MOUNT CAMERA (ARROW INDICATES VIEW DIRECTION)
C C	CEILING MOUNT CAMERA (ARROW INDICATES VIEW DIRECTION)



FIRE ALARM AND SECURITY PLAN - SECOND FLOOR

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

STATE OF MISSOURI
JAMES P. WATSON
NUMBER PE-2015017071
PROFESSIONAL ENGINEER

James Watson, P.E. April 17, 2024
PE-2015017071
MO Certificate of Authority # 2018029680

J-SQUARED ENGINEERING
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J2 PROJECT No: J21005

J2 DESIGN: ACW

ISSUE TITLE	DATE
CITY SUBMISSION	04 / 17 / 2024

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Home 2 Suites By Hilton

Village at Discovery Park Lot 2
Lee's Summit, MO

AHJ APPROVAL STAMP

SHEET TITLE

FIRE ALARM AND SECURITY PLAN - SECOND FLOOR

SHEET NUMBER

FS102

FIRE ALARM SYSTEM SPECIFICATIONS

1. FIRE ALARM SYSTEM SHALL BE AN ADDRESSABLE SYSTEM THAT IS NONCODED, UL-LISTED, WITH MULTIPLEX SIGNAL TRANSMISSION AND HORN/STROBE EVACUATION.
2. EVERY FIRE ALARM SYSTEM COMPONENT SHALL BE UL-LISTED AND UL-CERTIFIED, TESTED BY MANUFACTURERS AS A COMPLETE SYSTEM, AND MEET ALL APPLICABLE REQUIREMENTS OF NFPA 72.
3. ALL FIRE ALARM WIRING TO BE PLENUM RATED.
4. ALL INITIATING DEVICES INSTALLED IN UNCONDITIONED SPACES SHALL BE CONVENTIONAL DEVICES SUITABLE FOR USE IN EXTREME HIGH AND LOW TEMPERATURES AND HIGH HUMIDITY. SUCH DEVICES SHALL BE SUPERVISED BY ADDRESSABLE MONITOR MODULES LOCATED IN CONDITIONED SPACES.
5. QUANTITIES, TYPES, AND LOCATIONS OF INITIATING DEVICES AND OUTPUT MODULES FOR INTERCONNECTION WITH FIRE SUPPRESSION MUST BE COORDINATED WITH CONTRACTORS THAT ARE RESPONSIBLE FOR THOSE SYSTEMS.

FIRE ALARM DEVICE TYPICAL LOCATIONS:

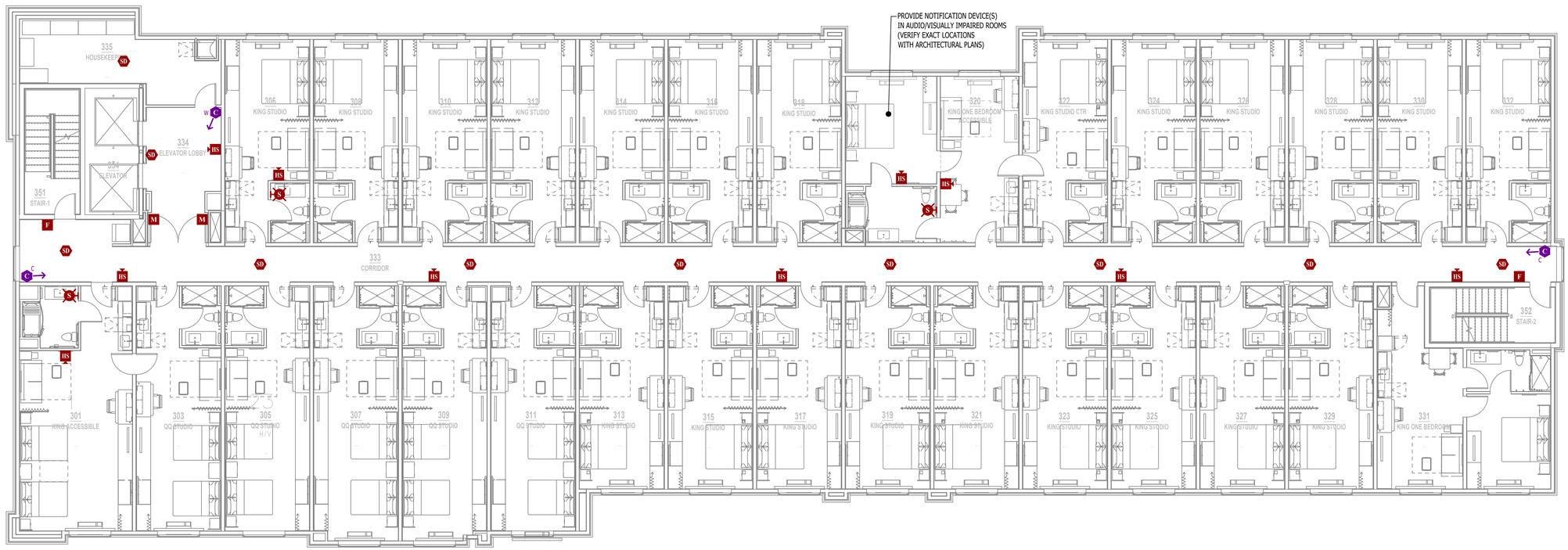
1. VERIFY EXACT LOCATIONS WITH LATEST NFPA REQUIREMENTS;
2. CEILING MOUNTED SMOKE / HEAT DETECTORS:
   - 2.1. MUST BE MOUNTED AT LEAST 36" FROM HVAC GRILLES / DIFFUSERS
   - 2.2. MUST BE LOCATED AT LEAST 4" FROM WALL/CEILING INTERSECTIONS (MEASURED FROM EDGE OF DEVICE)
3. WALL MOUNTED SMOKE / HEAT DETECTORS:
   - 3.1. MUST BE LOCATED AT LEAST 4" FROM WALL/CEILING INTERSECTIONS (MEASURED FROM EDGE OF DEVICE)
   - 3.2. MUST BE LOCATED WITHIN AT LEAST 12" FROM WALL/CEILING INTERSECTION (MEASURED FROM EDGE OF DEVICE)
4. MANUAL PULL STATIONS:
   - 4.1. MUST BE LOCATED WITHIN 5' OF EXTERIOR DOORWAY (MEASURED FROM CENTER OF PULL STATION TO NEAREST EDGE OF DOOR)
   - 4.2. MUST BE LOCATED BETWEEN 42" AND 54" A.F.F. (MEASURED FROM FINISH FLOOR TO CENTER OFF PULL STATION)
5. MAGNETIC DOOR HOLDER:
   - 5.1. MUST BE LOCATED 6" BELOW TOP OF DOOR (MEASURED FROM TOP OF DOOR TO TOP OF DOOR HOLDER)
   - 5.2. MUST BE LOCATED DOOR WIDTH MINUS THREE INCHES FROM DOOR (MEASURED FROM NEAREST EDGE OF HOLDER TO NEAREST EDGE OF DOOR).
6. FIRE ALARM CONTROL PANEL:
   - 6.1. MUST BE LOCATED AT MAXIMUM OF 72" A.F.F. (MEASURED FROM FINISH FLOOR TO TOP OF FIRE ALARM CONTROL PANEL)
7. FIRE ALARM ANNUNCIATOR:
   - 7.1. MUST BE LOCATED AT MAXIMUM OF 60" A.F.F. (MEASURED FROM FINISH FLOOR TO TOP OF FIRE ALARM ANNUNCIATOR PANEL)
8. WALL MOUNTED STROBE DEVICES (VISUAL ONLY):
   - 8.1. MUST BE LOCATED AT 84" A.F.F. (MEASURED FROM FINISH FLOOR TO BOTTOM OF BACK BOX)
   - 8.2. MUST BE LOCATED AT MOST 24" FROM WALL/CEILING INTERSECTION WITHIN HANDICAP BEDROOMS (MEASURED FROM WALL/CEILING INTERSECTION TO BOTTOM OF BACK BOX)
9. WALL-MOUNTED HORN / STROBE DEVICES (AUDIBLE & VISUAL):
   - 9.1. MUST BE LOCATED AT 84" A.F.F. (MEASURED FROM FINISH FLOOR TO BOTTOM OF BACK BOX)

FIRE ALARM PLAN SYMBOL LEGEND

F	MANUAL PULL STATION
M	MODULE
O	OUTPUT MODULE
SD	SMOKE DETECTOR
HD	HEAT DETECTOR
CO	CARBON MONOXIDE DETECTOR
S	STROBE - CEILING MOUNT
S	STROBE - WALL MOUNT
HS	HORN STROBE - WALL MOUNT
HS	HORN STROBE - CEILING MOUNT
SS	SPEAKER STROBE - WALL MOUNT
SS	SPEAKER STROBE - CEILING MOUNT
T	TAMPER SWITCH
WF	WATER FLOW SWITCH
FACP	FIRE ALARM CONTROL PANEL
ANN	FIRE ALARM ANNUNCIATOR

SECURITY PLAN SYMBOL LEGEND

R	READER
M	MOTION DETECTOR
KP	ALARM KEYPAD
DC	DOOR CONTACT
P	PANIC
GB	GLASS BREAK SENSOR
ES	ELECTRIC STRIKE
I	INTERCOM
DR	DOOR RELEASE
A	DURESS ALARM BUTTON
BURG	BURGLAR PANEL
C W	WALL MOUNT CAMERA (ARROW INDICATES VIEW DIRECTION)
C C	CEILING MOUNT CAMERA (ARROW INDICATES VIEW DIRECTION)



FIRE ALARM AND SECURITY PLAN - THIRD FLOOR

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

STATE OF MISSOURI
JAMES P. WATSON
NUMBER PE-2015017071
PROFESSIONAL ENGINEER

James Watson, P.E. April 17, 2024
PE-2015017071
MO Certificate of Authority # 2018029680

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J2 PROJECT No: J21005

J2 DESIGN: ACW

ISSUE TITLE	DATE
CITY SUBMISSION	04 / 17 / 2024

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Home 2 Suites By Hilton

Village at Discovery Park Lot 2
Lee's Summit, MO

AHJ APPROVAL STAMP

SHEET TITLE

FIRE ALARM AND SECURITY PLAN - THIRD FLOOR

SHEET NUMBER

FS103

FIRE ALARM SYSTEM SPECIFICATIONS

1. FIRE ALARM SYSTEM SHALL BE AN ADDRESSABLE SYSTEM THAT IS NONCODED, UL-LISTED, WITH MULTIPLEX SIGNAL TRANSMISSION AND HORN/STROBE EVACUATION.
2. EVERY FIRE ALARM SYSTEM COMPONENT SHALL BE UL-LISTED AND UL-CERTIFIED, TESTED BY MANUFACTURERS AS A COMPLETE SYSTEM, AND MEET ALL APPLICABLE REQUIREMENTS OF NFPA 72.
3. ALL FIRE ALARM WIRING TO BE PLENUM RATED.
4. ALL INITIATING DEVICES INSTALLED IN UNCONDITIONED SPACES SHALL BE CONVENTIONAL DEVICES SUITABLE FOR USE IN EXTREME HIGH AND LOW TEMPERATURES AND HIGH HUMIDITY. SUCH DEVICES SHALL BE SUPERVISED BY ADDRESSABLE MONITOR MODULES LOCATED IN CONDITIONED SPACES.
5. QUANTITIES, TYPES, AND LOCATIONS OF INITIATING DEVICES AND OUTPUT MODULES FOR INTERCONNECTION WITH FIRE SUPPRESSION MUST BE COORDINATED WITH CONTRACTORS THAT ARE RESPONSIBLE FOR THOSE SYSTEMS.

FIRE ALARM DEVICE TYPICAL LOCATIONS:

1. VERIFY EXACT LOCATIONS WITH LATEST NFPA REQUIREMENTS;
2. CEILING MOUNTED SMOKE / HEAT DETECTORS:
   - 2.1. MUST BE MOUNTED AT LEAST 36" FROM HVAC GRILLES / DIFFUSERS
   - 2.2. MUST BE LOCATED AT LEAST 4" FROM WALL/CEILING INTERSECTIONS (MEASURED FROM EDGE OF DEVICE)
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   - 3.1. MUST BE LOCATED AT LEAST 4" FROM WALL/CEILING INTERSECTIONS (MEASURED FROM EDGE OF DEVICE)
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4. MANUAL PULL STATIONS:
   - 4.1. MUST BE LOCATED WITHIN 5' OF EXTERIOR DOORWAY (MEASURED FROM CENTER OF PULL STATION TO NEAREST EDGE OF DOOR)
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   - 5.1. MUST BE LOCATED 6" BELOW TOP OF DOOR (MEASURED FROM TOP OF DOOR TO TOP OF DOOR HOLDER)
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   - 9.1. MUST BE LOCATED AT 84" A.F.F. (MEASURED FROM FINISH FLOOR TO BOTTOM OF BACK BOX)

FIRE ALARM PLAN SYMBOL LEGEND

F	MANUAL PULL STATION
M	MODULE
O	OUTPUT MODULE
SD	SMOKE DETECTOR
HD	HEAT DETECTOR
CO	CARBON MONOXIDE DETECTOR
S	STROBE - CEILING MOUNT
S	STROBE - WALL MOUNT
HS	HORN STROBE - WALL MOUNT
HS	HORN STROBE - CEILING MOUNT
SS	SPEAKER STROBE - WALL MOUNT
SS	SPEAKER STROBE - CEILING MOUNT
T	TAMPER SWITCH
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SECURITY PLAN SYMBOL LEGEND

R	READER
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DC	DOOR CONTACT
P	PANIC
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DR	DOOR RELEASE
A	DURESS ALARM BUTTON
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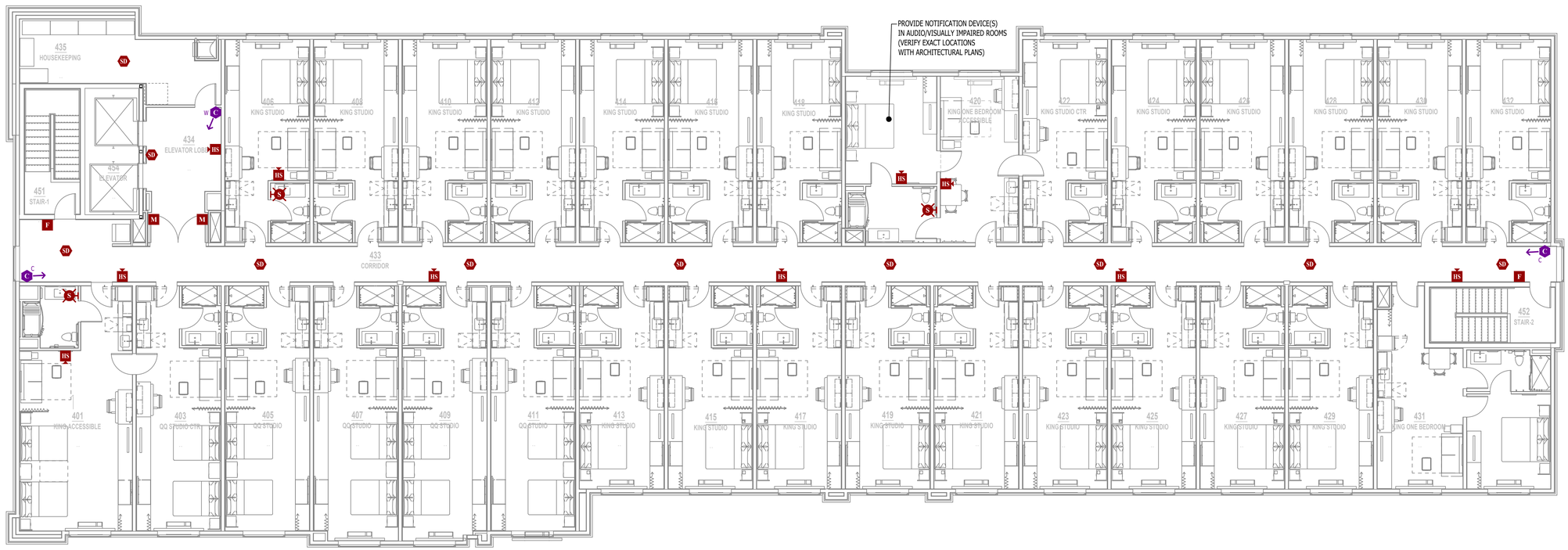

FIRE ALARM AND SECURITY PLAN - FOURTH FLOOR

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

STATE OF MISSOURI
JAMES P. WATSON
NUMBER PE-2015017071
PROFESSIONAL ENGINEER

James Watson, P.E. April 17, 2024
PE-2015017071
MO Certificate of Authority # 2018029680

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J2 PROJECT No:	J21005
J2 DESIGN:	ACW

ISSUE TITLE	DATE
CITY SUBMISSION	04 / 17 / 2024

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Home 2 Suites By Hilton

Village at Discovery Park Lot 2
Lee's Summit, MO

AHJ APPROVAL STAMP

SHEET TITLE

FIRE ALARM AND SECURITY PLAN - FOURTH FLOOR

SHEET NUMBER

FS104

ELECTRICAL SPECIFICATIONS

1. GENERAL

1.1. CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL NECESSARY PIECES AND COMPONENTS TO PROVIDE A COMPLETE AND COMPLIANT ELECTRICAL SYSTEM UNLESS OTHERWISE NOTED ON PLANS.
1.2. THE ENTIRE ELECTRICAL SYSTEM SHALL BE CONTINUOUSLY GROUNDED. EVERY BRANCH CONDUIT SHALL INCLUDE A GREEN GROUND CONDUCTOR SIZED PER NEC.
1.3. ARC-FAULT CIRCUITS SHALL BE RUN WITH A DEDICATED NEUTRAL AS REQUIRED BY MANUFACTURER.
1.4. PROVIDE PERMANENT ARC-FLASH LABEL AFFIXED TO EVERY DISCONNECT AND PANEL.
1.5. PROVIDE TYPE WRITTEN PANEL SCHEDULE FOR EACH PANEL.

2. WORKMANSHIP

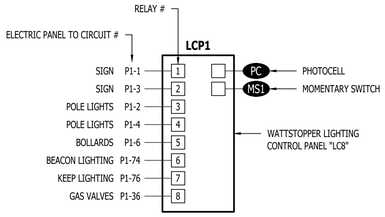
2.1. ALL ELECTRICAL SYSTEM COMPONENTS SHALL BE INSTALLED LEVEL, PLUMB, AND PARALLEL/PERPENDICULAR TO BUILDING ORIENTATION WHERE POSSIBLE.
2.2. ALL ELECTRICAL DEVICES AND LIGHT FIXTURES SHALL BE INSTALLED IN A SAFE, FIRST-CLASS MANNER WITH ATTENTION GIVEN TO OVERALL AESTHETICS. CARE SHOULD BE TAKEN TO ALLOW FOR FUTURE REPLACEMENT AND ACCESS FOR SERVICE.

3. MATERIALS

3.1. CONDUIT & CONDUCTORS
3.1.1. ALL CONDUCTORS SIZES INDICATED ARE COPPER UNLESS NOTED OTHERWISE ON PLANS.
3.1.2. ABOVE GRADE CONDUCTORS SHALL BE TYPE THHN. BELOW GRADE CONDUCTORS SHALL BE TYPE XHHW-2.
3.1.3. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG UNLESS NOTED OTHERWISE. 120-VOLT, 20-AMP CIRCUITS WITH CONDUCTOR LENGTHS GREATER THAN 100' SHALL BE #10 AWG MINIMUM. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR MEASURING ACTUAL CONDUCTOR LENGTH AND INCREASING CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP AS REQUIRED BY NEC.
3.1.4. RIGID GALVANIZED OR SCHEDULE 40 PVC CONDUIT SHALL BE USED FOR SERVICE WIRING, BELOW GRADE INSTALLATIONS, OR WHERE EXPOSED TO WEATHER.
3.1.5. IN APPLICATIONS OTHER THAN THOSE LISTED IN 3.1.4, EMT OR MC CABLE IS ACCEPTABLE. WHERE CONDUCTORS ARE PROTECTED FROM DAMAGE, ENCLOSED IN BUILDING MATERIALS, AND CONSTRUCTION IS OF A PERMITTED TYPE, NM CABLE MAY BE USED.
3.1.6. FOR CAST-IN-PLACE CONCRETE, TILT-UP WALL CONSTRUCTION, OR PRE-MANUFACTURED WALL SYSTEMS, COORDINATE EXACT LOCATIONS OF ALL DEVICES WITHIN WALLS WITH WALL SUPPLIER. CONDUIT EMBEDDED IN WALLS SHALL BE SCHEDULE 80 PVC OR LFMC, OR OTHER SYSTEM APPROVED BY WALL MANUFACTURER.
3.1.7. EXPOSED CONDUIT SHALL BE PAINTED TO MATCH ADJACENT SURFACES, VERIFY COLOR WITH ARCHITECT/OWNER.
3.2. DEVICES
3.2.1. CONTRACTOR TO PROVIDE J-BOXES, COVER PLATES, AND ANY ACCESSORIES REQUIRED TO PROVIDE A COMPLETE SYSTEM. SEE ARCHITECTURAL PLANS FOR DEVICE COLORS.
3.2.1. DUPLEX RECEPTACLES SHALL BE TAMPER RESISTANT, 20-AMP, EQUAL TO LEVITON #TBR-20.
3.2.2. SINGLE POLE TOGGLE WALL SWITCHES SHALL BE EQUAL TO LEVITON CS120-2. THREE-WAY TOGGLE WALL SWITCHES SHALL BE EQUAL TO LEVITON CS320-2.
3.2.3. DIMMER SWITCHES SHALL BE TESTED WITH FIXTURES AND LAMPS FOR COMPATIBILITY. SEE LIGHTING PLANS FOR DETAILS.
3.2.4. WHERE GFCI PROTECTION IS SHOWN ON PLANS AND UNLESS OTHERWISE NOTED, PROVIDE A LISTED GFCI-PROTECTED RECEPTACLE WHERE THE RECEPTACLE IS ACCESSIBLE ON PLANS. IF THE RECEPTACLE LOCATION IS NOT ACCESSIBLE AS DEFINED BY NEC, PROVIDE GFCI PROTECTION AT CIRCUIT BREAKER.
3.2.5. DO NOT INSTALL OCCUPANCY/VACANCY SENSORS WITH 48" OF HVAC DIFFUSERS/GRILLES OR SIMILAR OBSTRUCTION THAT MAY AFFECT SENSOR FUNCTIONALITY. ALL SENSORS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
3.2.6. ALL APPLICABLE SWITCHES, RECEPTACLES, CONTROLS, ETC. SHALL BE MOUNTED AT ADA-ACCESSIBLE HEIGHTS.
3.2.7. WIRING DEVICES SHOWN ON PLANS NEXT TO ONE ANOTHER SHALL UTILIZE A SINGLE COVER PLATE UNLESS NOTED OTHERWISE.
3.2.8. WIRING DEVICES SHOWN BACK-TO-BACK ON EACH SIDE OF A WALL SHALL BE OFFSET TO REDUCE SOUND TRANSMISSION.
3.2.9. EACH RECEPTACLE COVER SHALL BE NEATLY AND LEGIBLY LABELED WITH CORRESPONDING PANEL AND CIRCUIT NUMBER FOR CIRCUIT IDENTIFICATION.

4. EMERGENCY LIGHTING

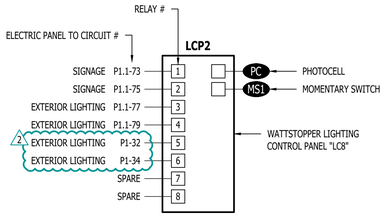
4.1. BRANCH CIRCUIT FEEDING EMERGENCY FIXTURE(S) SHALL BE SAME BRANCH CIRCUIT AS THAT SERVING NORMAL LIGHTING IN SAME AREA AND CONNECTED AHEAD OF ANY LOCAL SWITCHES.
4.2. EMERGENCY LIGHTING SYSTEM SHALL PROVIDE 1FC AVERAGE AND 0.1FC MINIMUM ALONG EGRESS PATHS. ADJUST ANY EMERGENCY FIXTURES AS NECESSARY TO PROVIDE PROPER ILLUMINATION WITHOUT OBSTRUCTION FROM FURNITURE OR OBSTACLES.



LIGHTING CONTROL PANEL SCHEDULE

RELAY #	OVERRIDE SWITCH	OPERATIONAL SCHEDULE
1	YES	ON DURING NIGHT HOURS (PHOTOCELL)
2	YES	ON DURING NIGHT HOURS (PHOTOCELL)
3	YES	ON DURING NIGHT HOURS (PHOTOCELL)
4	YES	ON DURING NIGHT HOURS (PHOTOCELL)
5	YES	ON DURING NIGHT HOURS (PHOTOCELL)
6	YES	ON DURING NIGHT HOURS (PHOTOCELL)
7	YES	ON DURING NIGHT HOURS (PHOTOCELL)
8	YES	ON DURING OCCUPIED HOURS

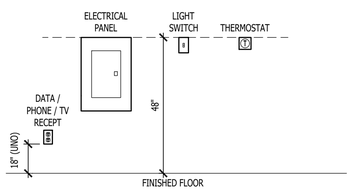
LIGHTING CONTROL PANEL



LIGHTING CONTROL PANEL SCHEDULE

RELAY #	OVERRIDE SWITCH	OPERATIONAL SCHEDULE
1	YES	ON DURING NIGHT HOURS (PHOTOCELL)
2	YES	ON DURING NIGHT HOURS (PHOTOCELL)
3	YES	ON DURING NIGHT HOURS (PHOTOCELL)
4	YES	ON DURING NIGHT HOURS (PHOTOCELL)
2 5	YES	ON DURING EVENING HOURS (PHOTOCELL + TIMER)
6	YES	ON DURING EVENING HOURS (PHOTOCELL + TIMER)
8	-	-

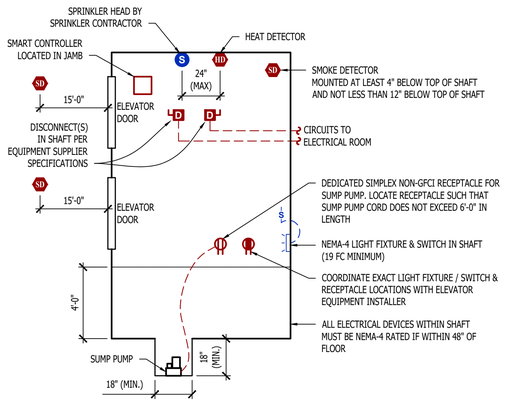
LIGHTING CONTROL PANEL



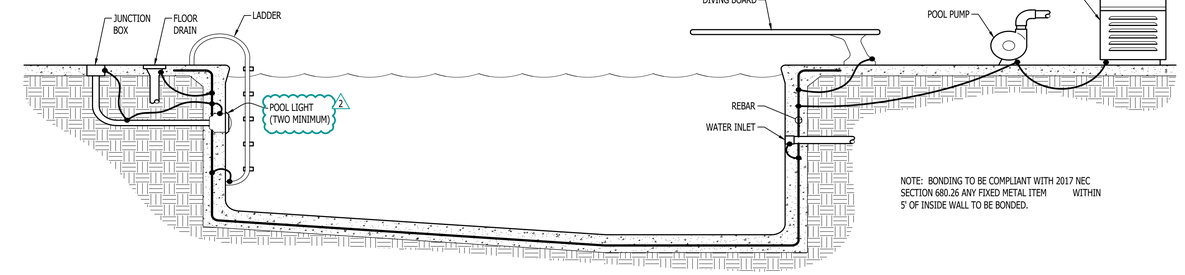
TYPICAL ADA MOUNTING HEIGHTS DETAIL

NOTES:

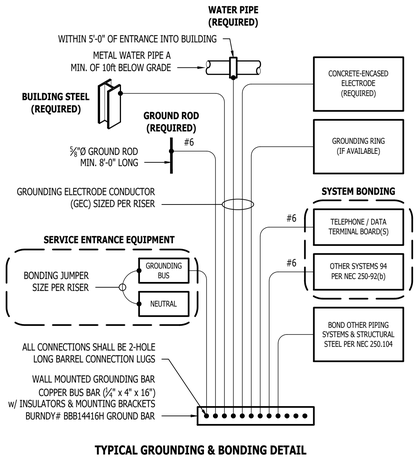
1. ALL ELECTRICAL CONDUCTORS WITHIN ELEVATOR PIT MUST COMPLY WITH NEC 620.21.
2. SUMP PUMP RECEPTACLE, SHAFT / PIT RECEPTACLES, & SHAFT LIGHTING TO ALL BE ON EMERGENCY POWER IF ELEVATOR IS ON EMERGENCY POWER.
3. ADDITIONAL SMOKE DETECTOR REQUIRED IN ELEVATOR MACHINE ROOM (IF APPLICABLE).
4. IN CASES WHERE ELEVATOR IS NOT SHUNT-TRIP PROTECTED, A LABELED SPRINKLER SHUT-OFF MUST BE LOCATED OUTSIDE THE ELEVATOR HOISTWAY AND/OR EQUIPMENT ROOM.
5. PERMANENTLY LABEL ALL CIRCUITS AND FEEDERS.
6. SUMP PUMP DISCHARGE LINE SHALL BE HARD PIPED (NO PVC).



MACHINE - ROOM - LESS ELEVATOR DETAIL



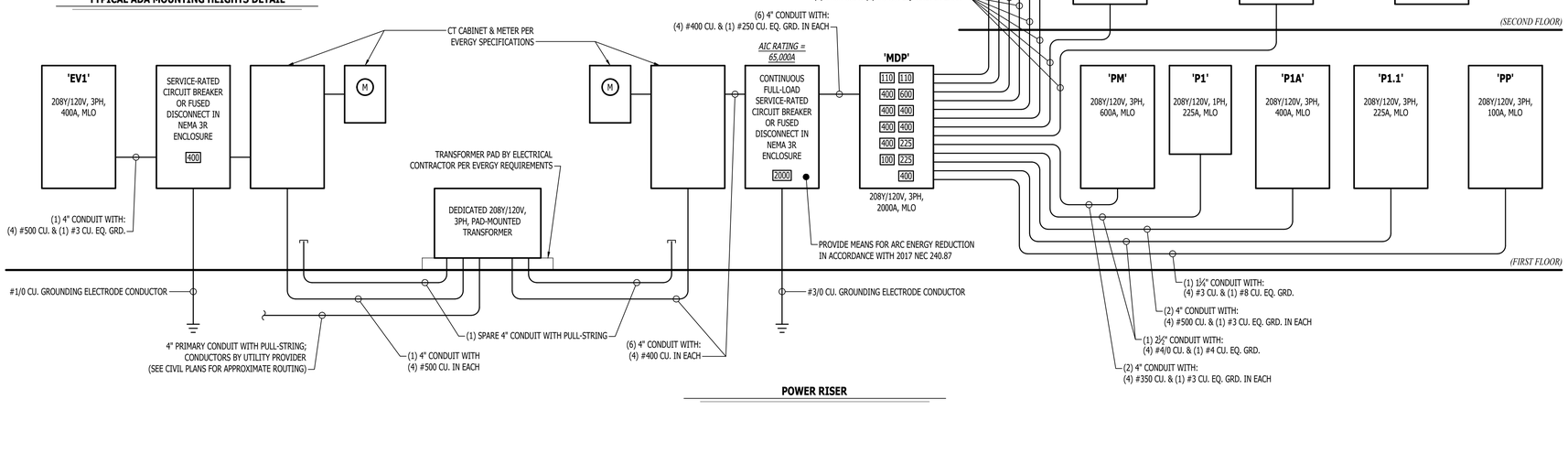
POOL AREA EQUIPOTENTIAL BONDING DETAIL



TYPICAL GROUNDING & BONDING DETAIL

POWER RISER GENERAL NOTES:

1. SEE MEP SITE PLAN FOR APPROXIMATE TRANSFORMER & SERVICE ENTRANCE LOCATIONS.
2. COORDINATE ALL DETAILS OF NEW ELECTRIC SERVICE WITH EVERGY.
3. CONTRACTOR SHALL PROVIDE A SHORT-CIRCUIT AND COORDINATION STUDY INCLUDING ARC FAULT ANALYSIS AND EQUIPMENT LABELING ON ALL SERVICE SWITCHBOARDS AND DISTRIBUTION BOARDS.
4. AIC-RATINGS ARE BASED ON THE FOLLOWING:
   4.1. TRANSFORMER LOCATED APPROXIMATELY WHERE SHOWN ON PLANS.
   4.2. 750 kVA TRANSFORMER, 100% PF, 5.75% Z.
   4.3. ELECTRICAL CONTRACTOR TO RECALCULATE REQUIRED AIC-RATINGS IF FIELD CONDITIONS VARY FROM THOSE SHOWN ON PLANS.
5. PERMANENTLY LABEL SERVICE DISCONNECTS AS "1 OF 2" & "2 OF 2".
6. ELECTRICAL CONTRACTOR TO PERFORM SHORT CIRCUIT COORDINATION STUDY INCLUDING ARC FAULT ANALYSIS & INCLUDE EQUIPMENT LABELING ON ALL SWITCHBOARDS & DISTRIBUTION PANELS.
7. ALL DEVICES IN MAIN DISTRIBUTION SHALL BE 100% CONTINUOUSLY RATED.
8. PROVIDE SURGE PROTECTION & LIGHTING ARRESTORS ON EACH MAIN ELECTRICAL SERVICE.
9. PROVIDE MEANS FOR ARC-ENERGY REDUCTION ON MAIN ELECTRIC SERVICE PER NEC 240.87.
10. PROVIDE GFI PROTECTION ON MAIN ELECTRICAL SERVICE PER NEC 215.10.



POWER RISER

STATE OF MISSOURI
JAMES P. WATSON
NUMBER PE-2015017071
PROFESSIONAL ENGINEER

James Watson, P.E. June 14, 2024
PE-2015017071
MO Certificate of Authority # 2018029680

J-SQUARED ENGINEERING
2400 Bluff Creek Drive, Suite 101
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J2 PROJECT No:	J21005
J2 DESIGN:	ACW

ISSUE TITLE	DATE
CITY SUBMISSION	04 / 17 / 2024
CITY & BRAND RESPONSE	06 / 14 / 2024

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Home 2 Suites By Hilton

Village at Discovery Park Lot 2
Lee's Summit, MO

AHJ APPROVAL STAMP

SHEET TITLE

ELECTRICAL DETAILS & SCHEDULES

SHEET NUMBER

E501

MAIN DISTRIBUTION PANEL 'MDP' SCHEDULE

PANEL SPECIFICATIONS		TOTAL CONNECTED LOAD	TOTAL DIVERSIFIED LOAD
VOLTAGE: 208Y/120V 3-PH	**NEMA RATING:** 1	**PHASE "A" LOAD:** 4783.5 AMPS	**PHASE "A" LOAD:** 1859.5 AMPS
AMPACITY: 2000A MLO	**PANEL MOUNTING:** SURFACE	**PHASE "B" LOAD:** 4754 AMPS	**PHASE "B" LOAD:** 1861 AMPS
AIC-RATING: 65kA		**PHASE "C" LOAD:** 4359 AMPS	**PHASE "C" LOAD:** 1763.5 AMPS

CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER
1	DISTRIBUTION PANEL 'P1A'	400-3	569	A	133.5	225-3	PANEL 'P1'	2
3	-	-	571	B	159	-	-	4
5	-	-	475	C	163	-	-	6
7	DISTRIBUTION PANEL 'P2A'	400-3	522	A	174.5	225-3	PANEL 'P1.1'	8
9	-	-	523	B	162	-	-	10
11	-	-	474	C	167.5	-	-	12
13	DISTRIBUTION PANEL 'P2B'	400-3	554	A	7.5	100-3	POOL PANEL 'PP'	14
15	-	-	539	B	15	-	-	16
17	-	-	491	C	1	-	-	18
19	DISTRIBUTION PANEL 'P3A'	400-3	522	A	87	110-3	DOAS-1	20
21	-	-	523	B	87	-	-	22
23	-	-	474	C	87	-	-	24
25	DISTRIBUTION PANEL 'P3B'	400-3	554	A	87	110-3	DOAS-2	26
27	-	-	539	B	87	-	-	28
29	-	-	491	C	87	-	-	30
31	DISTRIBUTION PANEL 'P4A'	400-3	522	A			OPEN	32
33	-	-	523	B			OPEN	34
35	-	-	474	C			OPEN	36
37	DISTRIBUTION PANEL 'P4B'	400-3	554	A			OPEN	38
39	-	-	539	B			OPEN	40
41	-	-	491	C			OPEN	42
43	PANEL 'PM'	600-3	497	A			OPEN	44
45	-	-	487	B			OPEN	46
47	-	-	483	C			OPEN	48

NOTES:

A: PANEL SHALL BE EQUAL TO SQUARE D 'QED-2' SERIES SWITCHBOARD

B: ELECTRICIAN SHALL VERIFY EXACT EQUIPMENT OVERCURRENT PROTECTION REQUIREMENTS PRIOR TO PURCHASE & INSTALLATION OF EQUIPMENT.

C: AFTER COMPLETION OF WORK, ELECTRICAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.

D: GUESTROOM ELECTRICAL LOADS AND DISTRIBUTION PANEL LOADS HAVE BEEN CALCULATED PER NEC ARTICLE 220

POOL ELECTRICAL PANEL 'PP' SCHEDULE

PANEL SPECIFICATIONS			TOTAL CONNECTED LOAD
VOLTAGE: 120/208V 3-PH	**NEMA RATING:** 3R		**PHASE "A" LOAD:** 7.5 AMPS
AMPACITY: 100A MLO	**PANEL MOUNTING:** SURFACE		**PHASE "B" LOAD:** 15 AMPS
AIC-RATING: 10kA			**PHASE "C" LOAD:** 1 AMPS

CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER
1	POOL DECK RECEPTS.	20-1	4.5	A			OPEN	2
3	POOL DECK RECEPTS.	20-1	5	B			OPEN	4
5	POOL PHONE	20-1	1	C			OPEN	6
7	EXHAUST FAN	20-1	3	A			OPEN	8
9	LIGHTING	20-1	10	B			OPEN	10
11	SPARE	20-1		C			OPEN	12
13	SPARE	20-1		A			OPEN	14
15	SPARE	20-1		B			OPEN	16
17	SPARE	20-1		C			OPEN	18
19	SPARE	20-1		A			OPEN	20
21	SPARE	20-1		B			OPEN	22
23	SPARE	20-1		C			OPEN	24
25	SPARE	20-1		A			OPEN	26
27	SPARE	20-1		B			OPEN	28
29	SPARE	20-1		C			OPEN	30

NOTES:

A: PANEL SHALL BE EQUAL TO SQUARE D MODEL "QO"

B: ELECTRICIAN SHALL VERIFY EXACT EQUIPMENT OVERCURRENT PROTECTION REQUIREMENTS PRIOR TO PURCHASE & INSTALLATION OF EQUIPMENT.

C: AFTER COMPLETION OF WORK, ELECTRICAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.

DISTRIBUTION PANEL 'P1A' SCHEDULE

PANEL SPECIFICATIONS		TOTAL CONNECTED LOAD	TOTAL DIVERSIFIED LOAD
VOLTAGE: 208Y/120V 3-PH	**NEMA RATING:** 1	**PHASE "A" LOAD:** 569 AMPS	**PHASE "A" LOAD:** 252 AMPS
AMPACITY: 400A MLO	**PANEL MOUNTING:** RECESSED	**PHASE "B" LOAD:** 571 AMPS	**PHASE "B" LOAD:** 253 AMPS
AIC-RATING: 35kA		**PHASE "C" LOAD:** 475 AMPS	**PHASE "C" LOAD:** 205 AMPS

CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER
1	GUESTROOM 113 PANEL	60-2	47	A	47	60-2	GUESTROOM 126 PANEL	2
3	-	-	48	B	48	-	-	4
5	GUESTROOM 115 PANEL	60-2	47	C	47	60-2	GUESTROOM 127 PANEL	6
7	-	-	48	A	48	-	-	8
9	GUESTROOM 117 PANEL	60-2	47	B	47	60-2	GUESTROOM128 PANEL	10
11	-	-	48	C	48	-	-	12
13	GUESTROOM 119 PANEL	60-2	47	A	47	60-2	GUESTROOM 129 PANEL	14
15	-	-	48	B	48	-	-	16
17	GUESTROOM 120 PANEL	60-2	47	C	47	60-2	GUESTROOM 130 PANEL	18
19	-	-	48	A	48	-	-	20
21	GUESTROOM 121 PANEL	60-2	47	B	47	60-2	GUESTROOM 131 PANEL	22
23	-	-	48	C	48	-	-	24
25	GUESTROOM 122 PANEL	60-2	47	A	47	60-2	GUESTROOM 132 PANEL	26
27	-	-	48	B	48	-	-	28
29	GUESTROOM 123 PANEL	60-2	47	C			OPEN	30
31	-	-	48	A			OPEN	32
33	GUESTROOM 124 PANEL	60-2	47	B			OPEN	34
35	-	-	48	C			OPEN	36
37	GUESTROOM 125 PANEL	60-2	47	A			OPEN	38
39	-	-	48	B			OPEN	40
41	OPEN			C			OPEN	42

NOTES:

A: PANEL SHALL BE EQUAL TO SQUARE D "I-LINE" SERIES

B: ELECTRICIAN SHALL VERIFY EXACT EQUIPMENT OVERCURRENT PROTECTION REQUIREMENTS PRIOR TO PURCHASE & INSTALLATION OF EQUIPMENT.

C: AFTER COMPLETION OF WORK, ELECTRICAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.

D: GUESTROOM PANEL & DISTRIBUTION PANEL DIVERSIFIED LOADS HAVE BEEN CALCULATED IN ACCORDANCE WITH NEC 220.84.

ELECTRICAL PANEL 'PM' SCHEDULE

PANEL SPECIFICATIONS			TOTAL CONNECTED LOAD
VOLTAGE: 120/208V 3-PH	**NEMA RATING:** 1		**PHASE "A" LOAD:** 497 AMPS
AMPACITY: 600A MLO	**PANEL MOUNTING:** RECESSED		**PHASE "B" LOAD:** 487 AMPS
AIC-RATING: 35kA			**PHASE "C" LOAD:** 483 AMPS

CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER
1	AHU-1	60-2	41	A	41	60-2	AHU-5	2
3	-	-	41	B	41	-	-	4
5	AHU-1	45-2	34	C	16	25-2	CU-5	6
7	-	-	34	A	16	-	-	8
9	CU-1	40-2	24	B	41	60-2	AHU-6	10
11	-	-	24	C	41	-	-	12
13	AHU-2	60-2	41	A	14	25-2	CU-6	14
15	-	-	41	B	14	-	-	16
17	AHU-2	45-2	34	C	35	45-2	AHU-7	18
19	-	-	34	A	35	-	-	20
21	CU-2	60-2	34	B	12	20-2	CU-7	22
23	-	-	34	C	12	-	-	24
25	AHU-3	60-2	51	A	41	60-2	AHU-8	26
27	-	-	51	B	41	-	-	28
29	CU-3	25-2	14	C	14	25-2	CU-8	30
31	-	-	14	A	14	-	-	32
33	AHU-4	45-2	35	B	35	45-2	AHU-9	34
35	-	-	35	C	35	-	-	36
37	CU-4	20-2	12	A	12	20-2	CU-9	38
39	-	-	12	B	12	-	-	40
41	PBX FCU-1 / HP-1	25-2	14	C			OPEN	42
43		-	14	A			OPEN	44
45	WATER HEATER	20-1	10	B			OPEN	46
47	WATER HEATER	20-1	10	C			OPEN	48
49	WATER HEATER	20-1	10	A			OPEN	50
51	WATER HEATER	20-1	10	B			OPEN	52
53	WALL HEATER	20-2	14	C			OPEN	54
55	-	-	14	A			OPEN	56
57	WALL HEATER	20-2	14	B			OPEN	58
59	-	-	14	C			OPEN	60
61	DH-1	125-3	117	A			OPEN	62
63	-	-	117	B			OPEN	64
65	-	-	117	C			OPEN	66
67	DH-2	15-3	10	A			OPEN	68
69	-	-	10	B			OPEN	70
71	-	-	10	C			OPEN	72
73	OPEN			A			OPEN	74
75	OPEN			B			OPEN	76
77	OPEN			C			OPEN	78
79	OPEN			A			OPEN	80
81	OPEN			B			OPEN	82
83	OPEN			C			OPEN	84

NOTES:

A: PANEL SHALL BE EQUAL TO SQUARE D MODEL "NQ"

B: ELECTRICIAN SHALL VERIFY EXACT EQUIPMENT OVERCURRENT PROTECTION REQUIREMENTS PRIOR TO PURCHASE & INSTALLATION OF EQUIPMENT.

C: AFTER COMPLETION OF WORK, ELECTRICAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.

D: PHASE LOAD CALCULATIONS INCLUDE DIVERSITY OF NON-COINCIDENTAL HVAC EQUIPMENT LOADS (HEATING VERSUS COOLING)

ELECTRICAL PANEL 'P1' SCHEDULE

PANEL SPECIFICATIONS			TOTAL CONNECTED LOAD
VOLTAGE: 120/208V 3-PH	**NEMA RATING:** 1		**PHASE "A" LOAD:** 133.5 AMPS
AMPACITY: 225A MLO	**PANEL MOUNTING:** RECESSED		**PHASE "B" LOAD:** 159 AMPS
AIC-RATING: 10kA			**PHASE "C" LOAD:** 163 AMPS

CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER
1	MONUMENT SIGN	20-1	8	A	5	20-2	POLE LIGHTS	2
3	MONUMENT SIGN	20-1	8	B	5	-	-	4
5	ROOFTOP RECEPTS.	20-1	3	C	5	20-1	ILLUMINATED BOLLARDS	6
7	EXTERIOR RECEPTS.	20-1	6	A	8	20-1	GUEST LAUNDRY WASHING MACHINE	8
9	EXTERIOR RECEPTS.	20-1	6	B	8	20-1	GUEST LAUNDRY WASHING MACHINE	10
11	FITNESS RECEPTS.	20-1	6	C	20	30-2	GUEST LAUNDRY DRYER	12
13	FITNESS RECEPTS.	20-1	4.5	A	20	-	-	14
15	FITNESS EQUIPMENT	20-1	5	B	20	30-2	GUEST LAUNDRY DRYER	16
17	FITNESS EQUIPMENT	20-1	5	C	20	-	-	18
19	FITNESS EQUIPMENT	20-1	5	A	1.5	20-1	ELEVATOR PIT RECEPT.	20
21	FITNESS EQUIPMENT	20-1	5	B	1.5	20-21	ELEVATOR PIT RECEPT.	22
23	FITNESS EQUIPMENT	20-1	5	C	5	20-1	ELEVATOR PIT SUMP PUMP	24
25	HYDRATION STATION	20-1	3	A	1	20-1	ELEVATOR COMMUNICATION SYSTEM	26
27	LAUNDRY RECEPTS.	20-1	3	B	3	20-1	ELEVATOR SMOKE CURTAIN	28
29	LAUNDRY RECEPTS.	20-1	3	C	3	20-1	ELEVATOR SMOKE CURTAIN	30
31	TV LOUNGE RECEPTS.	20-1	10.5	A	5	20-1	EXTERIOR STRING LIGHTS	32
33	EXTERIOR STORAGE RECEPTS.	20-1	4.5	B	5	20-1	EXTERIOR STRING LIGHTS	34
35	RESTROOM RECEPTS.	20-1	4.5	C	2	20-1	GAS SOLENOID	36
37	ELEVATOR AREA / VESTIBULE RECEPTS.	20-1	3	A		20-1	SPARE	38
39	LAUNDRY RECEPTS.	20-1	4.5	B	7	20-1	BREAKFAST WARMING KETTLE	40
41	MANAGER OFFICE RECEPTS.	20-1	4.5	C	2	20-1	BREAKFAST YOGURT DISPENSER	42
43	MANAGER OFFICE MFD	20-1	5	A	2	20-1	BREAKFAST U/C REFRIGERATOR	44
45	MANAGER OFFICE DESK QUAD	20-1	3	B	3	20-1	WELCOME DESK RECEPTS.	46
47	LAUNDRY ROOM RECEPTS.	20-1	1.5	C	3	20-1	WELCOME DESK RECEPTS.	48
49	LAUNDRY ROOM RECEPTS.	20-1	1.5	A	3	20-1	WELCOME DESK RECEPTS.	50
51	LAUNDRY ROOM RECEPTS.	20-1	1.5	B	3	20-1	MARKET FLOOR RECEPTS.	52
53	LAUNDRY ROOM RECEPTS.	20-1	6	C	5	20-1	MARKET COUNTERTOP EQUIPMENT	54
55	LAUNDRY ROOM RECEPTS.	20-1	6	A	5	20-1	MARKET COUNTERTOP EQUIPMENT	56
57	LAUNDRY ROOM RECEPTS.	20-1	4.5	B	8	20-1	MARKET VENDING MACHINE	58
59	WORK STATION RECEPTS.	20-1	4.5	C	8	20-1	MARKET VENDING MACHINE	60
61	WORK STATION RECEPTS.	20-1	3	A	3	20-1	LOBBY COLUMN QUAD	62
63	WORK STATION RECEPTS.	20-1	1.5	B	3	20-1	LOBBY COLUMN QUAD	64
65	WORK STATION RECEPTS.	20-1	3	C	6	20-1	LOBBY RECEPTS.	66
67	WORK STATION RECEPTS.	20-1	1.5	A	5	20-1	DOOR OPERATOR	68
69	BREAKFAST WARMING CABINET	20-1	5	B	5	20-1	DOOR OPERATOR	70
71	BREAKFAST TAPE LIGHTS	20-1	5	C	1	20-1	FIRE ALARM CONTROL PANEL	72
73	BREAKFAST JUICE DISPENSER	20-1	6	A	5	20-1	BEACON LIGHTING	74
75	BREAKFAST TOASTER	20-1	14	B	5	20-1	KEEP LIGHTING	76
77	BREAKFAST DISPLAY CASE	20-1	15	C			SPARE	78
79	BREAKFAST WARMING KETTLE	20-1	7	A			SPARE	80
81	BREAKFAST WAFFLE MAKER	30-1	17	B			SPARE	82
83	BREAKFAST WAFFLE MAKER	30-1	17	C			SPARE	84

NOTES:

A: PANEL SHALL BE EQUAL TO SQUARE D MODEL "QO"

B: ELECTRICIAN SHALL VERIFY EXACT EQUIPMENT OVERCURRENT PROTECTION REQUIREMENTS PRIOR TO PURCHASE & INSTALLATION OF EQUIPMENT.

C: AFTER COMPLETION OF WORK, ELECTRICAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.

STATE OF MISSOURI
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MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Home 2 Suites By Hilton

Village at Discovery Park Lot 2
Lee's Summit, MO

AHJ APPROVAL STAMP

SHEET TITLE

ELECTRICAL SCHEDULES

SHEET NUMBER

E601

rec

ELECTRICAL PANEL 'P1.1' SCHEDULE

PANEL SPECIFICATIONS			TOTAL CONNECTED LOAD	
VOLTAGE: 120/208V 3-PH	**NEMA RATING:** 1		**PHASE "A" LOAD:**	182.5 AMPS
AMPACITY: 225A MLO	**PANEL MOUNTING:** RECESSED		**PHASE "B" LOAD:**	170 AMPS
AIC-RATING: 35kA			**PHASE "C" LOAD:**	170.5 AMPS

CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER
1	LOBBY SEATING QUAD	20-1	3	A	5	15-3	LAUNDRY WASHER	2
3	LOBBY SEATING QUAD	20-1	3	B	5	-	-	4
5	LOBBY FLOOR RECEPTS.	20-1	6	C	5	-	-	6
7	LOBBY FLOOR RECEPTS.	20-1	6	A	5	15-3	LAUNDRY WASHER	8
9	HYDRATION AREA RECEPTS.	20-1	3	B	5	-	-	10
11	HYDRATION AREA RECEPTS.	20-1	3	C	5	-	-	12
13	HYDRATION AREA RECEPTS.	20-1	3	A	5	15-3	LAUNDRY DRYER	14
15	HYDRATION AREA RECEPTS.	20-1	3	B	5	-	-	16
17	HYDRATION AREA RECEPTS.	20-1	3	C	5	-	-	18
19	HYDRATION AREA RECEPTS.	20-1	3	A	5	15-3	LAUNDRY DRYER	20
21	RESTROOM RECEPTS.	20-1	3	B	5	-	-	22
23	RESTROOM RECEPTS.	20-1	3	C	5	-	-	24
25	EMPLOYEE BREAKROOM RECEPTS.	20-1	7.5	A	28	40-2	FOOD PREP OVEN	26
27	EMPLOYEE BREA ROOM MW	20-1	8	B	28	-	-	28
29	EMPLOYEE BREAKROOM MW	20-1	8	C	28	40-2	FOOD PREP OVEN	30
31	EMPLOYEE BREAKROOM REF	20-1	8	A	28	-	-	32
33	FOOD PREP REF BASE	20-1	5	B	23	30-2	FOOD PREP COFFEE MAKER	34
35	FOOD PREP MW	20-1	12	C	23	-	-	36
37	FOOD PREP RECEPTS.	20-1	3	A	17	30-2	FOOD PREP DISPOSAL	38
39	FOOD PREP RECEPTS.	20-1	3	B	17	-	-	40
41	CORRIDOR RECEPTS.	20-1	4.5	C	29	35-3	FOOD PREP DISHWASHER	42
43	PBX RECEPTS.	20-1	3	A	29	-	-	44
45	PBX RECEPTS.	20-1	3	B	29	-	-	46
47	PBX RECEPTS.	20-1	3	C	8	20-1	WATER SOFTENER	48
49	PBX RECEPTS.	20-1	3	A	3	20-2	208V RECEPT. (MAINTENANCE)	50
51	PBX RECEPTS.	20-1	3	B	3	-	-	52
53	PBX RECEPTS.	201	3	C	5	20-1	INTERIOR LIGHTING	54
55	PBX RECEPTS.	20-1	3	A	10	20-1	INTERIOR LIGHTING	56
57	PBX RECEPTS.	20-1	3	B	8	20-1	INTERIOR LIGHTING	58
59	PBX RECEPTS.	20-1	3	C	10	20-1	INTERIOR LIGHTING	60
61	MECH ROOM RECEPTS.	20-1	3	A	8	20-1	STAIR LIGHTING	62
63	ENGINEER RECEPTS.	20-1	6	B	2	20-1	FIRE/SMOKE DAMPERS	64
65	ENGINEER QUAD	20-1	3	C	2	20-1	FIRE/SMOKE DAMPERS	66
67	ENGINEER QUAD	20-1	3	A	3	20-1	WELCOME DESK RECEPTS.	68
69	VENDING MACHINE	20-1	8	B	3	20-1	WELCOME DESK RECEPTS.	70
71	SALES RECEPTS.	20-1	9	C	3	20-1	WELCOME DESK RECEPTS.	72
73	EXTERIOR SIGNAGE	20-1	3	A	5	20-1	MAG-HOLDS	74
75	EXTERIOR SIGNAGE	20-1	3	B	5	20-1	MAG-HOLDS	76
77	EXTERIOR LIGHTING	20-1	4	C			OPEN	78
79	EXTERIOR PATIO LIGHTING	20-1	5	A			OPEN	80
81	LIGHTING CONTROL PANELS	20-1	3	B			OPEN	82
83	TRASH ENCLOSURE STORAGE	20-1	3	C			OPEN	84

NOTES:
A: PANEL SHALL BE EQUAL TO SQUARE D MODEL "QO"
B: ELECTRICIAN SHALL VERIFY EXACT EQUIPMENT OVERCURRENT PROTECTION REQUIREMENTS PRIOR TO PURCHASE & INSTALLATION OF EQUIPMENT.
C: AFTER COMPLETION OF WORK, ELECTRICAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.

DISTRIBUTION PANEL 'P2A' SCHEDULE

PANEL SPECIFICATIONS		TOTAL CONNECTED LOAD		TOTAL DIVERSIFIED LOAD	
VOLTAGE: 208Y/120V 3-PH	**NEMA RATING:** 1	**PHASE "A" LOAD:**	522 AMPS	**PHASE "A" LOAD:**	203 AMPS
AMPACITY: 400A MLO	**PANEL MOUNTING:** RECESSED	**PHASE "B" LOAD:**	523 AMPS	**PHASE "B" LOAD:**	198 AMPS
AIC-RATING: 22kA		**PHASE "C" LOAD:**	474 AMPS	**PHASE "C" LOAD:**	134 AMPS

CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER
1	GUESTROOM 201 PANEL	60-2	47	A	47	60-2	GUESTROOM 211 PANEL	2
3	-	-	48	B	48	-	-	4
5	GUESTROOM 202 PANEL	60-2	47	C	47	60-2	GUESTROOM 212 PANEL	6
7	-	-	48	A	48	-	-	8
9	GUESTROOM 203 PANEL	60-2	47	B	47	60-2	GUESTROOM 213 PANEL	10
11	-	-	48	C	48	-	-	12
13	GUESTROOM 204 PANEL	60-2	47	A	47	60-2	GUESTROOM 214 PANEL	14
15	-	-	48	B	48	-	-	16
17	GUESTROOM 205 PANEL	60-2	47	C	47	60-2	GUESTROOM 215 PANEL	18
19	-	-	48	A	48	-	-	20
21	GUESTROOM 206 PANEL	60-2	47	B	47	60-2	GUESTROOM 216 PANEL	22
23	-	-	48	C	48	-	-	24
25	GUESTROOM 207 PANEL	60-2	47	A	69	100-2	PANEL 'P2'	26
27	-	-	48	B	64	-	-	28
29	GUESTROOM 208 PANEL	60-2	47	C			OPEN	30
31	-	-	48	A			OPEN	32
33	GUESTROOM 209 PANEL	60-2	47	B			OPEN	34
35	-	-	48	C			OPEN	36
37	GUESTROOM 210 PANEL	60-2	47	A			OPEN	38
39	-	-	48	B			OPEN	40
41	OPEN			C			OPEN	42

NOTES:
A: PANEL SHALL BE EQUAL TO SQUARE D "I-LINE" SERIES
B: ELECTRICIAN SHALL VERIFY EXACT EQUIPMENT OVERCURRENT PROTECTION REQUIREMENTS PRIOR TO PURCHASE & INSTALLATION OF EQUIPMENT.
C: AFTER COMPLETION OF WORK, ELECTRICAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.
D: GUESTROOM PANEL & DISTRIBUTION PANEL DIVERSIFIED LOADS HAVE BEEN CALCULATED IN ACCORDANCE WITH NEC 220.84.

PANEL 'P2' SCHEDULE

PANEL SPECIFICATIONS			TOTAL CONNECTED LOAD	
VOLTAGE: 120/208V 1-PH	**NEMA RATING:** 1		**PHASE "A" LOAD:**	69 AMPS
AMPACITY: 100A MLO	**PANEL MOUNTING:** RECESSED		**PHASE "B" LOAD:**	64 AMPS
AIC-RATING: 10kA				

CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER
1	CORRIDOR RECEPTS.	20-1	9	A	35	45-2	AHU-10	2
3	ICE MACHINE	20-1	8	B	35	-	-	4
5	HOUSEKEEPING RECEPTS.	20-1	6	A	12	20-2	CU-10	6
7	I.T. QUAD	20-1	3	B	12	-	-	8
9	I.T. QUAD	20-1	3	A		20-1	SPARE	10
11	MAG HOLDS	20-1	3	B		20-1	SPARE	12
13	CORRIDOR SCONCES	20-1	2	A		20-1	SPARE	14
15	CORRIDOR DOWNLIGHTS	20-1	3	B			OPEN	16
17	LOBBY / LAUNDRY LIGHTING	20-1	2	A			OPEN	18
19	FIRE/SMOKE DAMPERS	20-1		B			OPEN	20
21	FIRE/SMOKE DAMPERS	20-1		A			OPEN	22
23	SPARE	20-1		B			OPEN	24

NOTES:
A: PANEL SHALL BE EQUAL TO SQUARE D MODEL "QO"
B: ELECTRICIAN SHALL VERIFY EXACT EQUIPMENT OVERCURRENT PROTECTION REQUIREMENTS PRIOR TO PURCHASE & INSTALLATION OF EQUIPMENT.
C: AFTER COMPLETION OF WORK, ELECTRICAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.

DISTRIBUTION PANEL 'P2B' SCHEDULE

PANEL SPECIFICATIONS		TOTAL CONNECTED LOAD		TOTAL DIVERSIFIED LOAD	
VOLTAGE: 208Y/120V 3-PH	**NEMA RATING:** 1	**PHASE "A" LOAD:**	554 AMPS	**PHASE "A" LOAD:**	144 AMPS
AMPACITY: 400A MLO	**PANEL MOUNTING:** RECESSED	**PHASE "B" LOAD:**	539 AMPS	**PHASE "B" LOAD:**	144 AMPS
AIC-RATING: 22kA		**PHASE "C" LOAD:**	491 AMPS	**PHASE "C" LOAD:**	144 AMPS

CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER
1	GUESTROOM 217 PANEL	60-2	47	A	47	60-2	GUESTROOM 227 PANEL	2
3	-	-	48	B	48	-	-	4
5	GUESTROOM 218 PANEL	60-2	47	C	47	60-2	GUESTROOM 228 PANEL	6
7	-	-	48	A	48	-	-	8
9	GUESTROOM 219 PANEL	60-2	47	B	47	60-2	GUESTROOM 229 PANEL	10
11	-	-	48	C	48	-	-	12
13	GUESTROOM 220 PANEL	100-2	63	A	47	60-2	GUESTROOM 230 PANEL	14
15	-	-	64	B	48	-	-	16
17	GUESTROOM 221 PANEL	60-2	47	C	63	100-2	GUESTROOM 231 PANEL	18
19	-	-	48	A	64	-	-	20
21	GUESTROOM 222 PANEL	60-2	47	B	47	60-2	GUESTROOM 232 PANEL	22
23	-	-	48	C	48	-	-	24
25	GUESTROOM 223 PANEL	60-2	47	A			OPEN	26
27	-	-	48	B			OPEN	28
29	GUESTROOM 224 PANEL	60-2	47	C			OPEN	30
31	-	-	48	A			OPEN	32
33	GUESTROOM 225 PANEL	60-2	47	B			OPEN	34
35	-	-	48	C			OPEN	36
37	GUESTROOM 226 PANEL	60-2	47	A			OPEN	38
39	-	-	48	B			OPEN	40
41	OPEN			C			OPEN	42

NOTES:
A: PANEL SHALL BE EQUAL TO SQUARE D "I-LINE" SERIES
B: ELECTRICIAN SHALL VERIFY EXACT EQUIPMENT OVERCURRENT PROTECTION REQUIREMENTS PRIOR TO PURCHASE & INSTALLATION OF EQUIPMENT.
C: AFTER COMPLETION OF WORK, ELECTRICAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.
D: GUESTROOM PANEL & DISTRIBUTION PANEL DIVERSIFIED LOADS HAVE BEEN CALCULATED IN ACCORDANCE WITH NEC 220.84.

PANEL 'P3' SCHEDULE

PANEL SPECIFICATIONS			TOTAL CONNECTED LOAD	
VOLTAGE: 120/208V 1-PH	**NEMA RATING:** 1		**PHASE "A" LOAD:**	71 AMPS
AMPACITY: 100A MLO	**PANEL MOUNTING:** RECESSED		**PHASE "B" LOAD:**	66 AMPS
AIC-RATING: 10kA				

CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER
1	CORRIDOR RECEPTS.	20-1	9	A	35	45-2	AHU-11	2
3	ICE MACHINE	20-1	8	B	35	-	-	4
5	HOUSEKEEPING RECEPTS.	20-1	6	A	12	20-2	CU-11	6
7	I.T. QUAD	20-1	3	B	12	-	-	8
9	I.T. QUAD	20-1	3	A		20-1	SPARE	10
11	MAG HOLDS	20-1	3	B		20-1	SPARE	12
13	CORRIDOR SCONCES	20-1	2	A		20-1	SPARE	14
15	CORRIDOR DOWNLIGHTS	20-1	3	B			OPEN	16
17	LOBBY / LAUNDRY LIGHTING	20-1	2	A			OPEN	18
19	FIRE/SMOKE DAMPERS	20-1	2	B			OPEN	20
21	FIRE/SMOKE DAMPERS	20-1	2	A			OPEN	22
23	SPARE	20-1		B			OPEN	24

NOTES:
A: PANEL SHALL BE EQUAL TO SQUARE D MODEL "QO"
B: ELECTRICIAN SHALL VERIFY EXACT EQUIPMENT OVERCURRENT PROTECTION REQUIREMENTS PRIOR TO PURCHASE & INSTALLATION OF EQUIPMENT.
C: AFTER COMPLETION OF WORK, ELECTRICAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.

STATE OF MISSOURI
JAMES P. WATSON
NUMBER PE-2015017071
PROFESSIONAL ENGINEER

James Watson, P.E. June 14, 2024
PE-2015017071
MO Certificate of Authority # 2018029680

J-SQUARED ENGINEERING
2400 Bluff Creek Drive, Suite 101
Columbia, Missouri 65201
573.234.4492
www.j-squaredeng.com

J2 PROJECT No:	J21005
J2 DESIGN:	ACW

ISSUE TITLE	DATE
CITY SUBMISSION	04 / 17 / 2024
2 CITY & BRAND RESPONSE	06 / 14 / 2024

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Home 2 Suites By Hilton

Village at Discovery Park Lot 2
Lee's Summit, MO

AHJ APPROVAL STAMP

SHEET TITLE

ELECTRICAL SCHEDULES

SHEET NUMBER

E602

DISTRIBUTION PANEL 'P4B' SCHEDULE

PANEL SPECIFICATIONS				TOTAL CONNECTED LOAD		TOTAL DIVERSIFIED LOAD	
VOLTAGE: 208Y/120V 3-PH	**NEMA RATING:** 1			**PHASE "A" LOAD:** 554 AMPS		**PHASE "A" LOAD:** 144 AMPS	
AMPACITY: 400A MLO	**PANEL MOUNTING:** RECESSED			**PHASE "B" LOAD:** 539 AMPS		**PHASE "B" LOAD:** 144 AMPS	
AIC-RATING: 22kA				**PHASE "C" LOAD:** 491 AMPS		**PHASE "C" LOAD:** 144 AMPS	

CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER
1	GUESTROOM 417 PANEL	60-2	47	A	47	60-2	GUESTROOM 427 PANEL	2
3	-	-	48	B	48	-	-	4
5	GUESTROOM 418 PANEL	60-2	47	C	47	60-2	GUESTROOM 428 PANEL	6
7	-	-	48	A	48	-	-	8
9	GUESTROOM 419 PANEL	60-2	47	B	47	60-2	GUESTROOM 429 PANEL	10
11	-	-	48	C	48	-	-	12
13	GUESTROOM 420 PANEL	100-2	63	A	47	60-2	GUESTROOM 430 PANEL	14
15	-	-	64	B	48	-	-	16
17	GUESTROOM 421 PANEL	60-2	47	C	63	100-2	GUESTROOM 431 PANEL	18
19	-	-	48	A	64	-	-	20
21	GUESTROOM 422 PANEL	60-2	47	B	47	60-2	GUESTROOM 432 PANEL	22
23	-	-	48	C	48	-	-	24
25	GUESTROOM 423 PANEL	60-2	47	A			OPEN	26
27	-	-	48	B			OPEN	28
29	GUESTROOM 424 PANEL	60-2	47	C			OPEN	30
31	-	-	48	A			OPEN	32
33	GUESTROOM 425 PANEL	60-2	47	B			OPEN	34
35	-	-	48	C			OPEN	36
37	GUESTROOM 426 PANEL	60-2	47	A			OPEN	38
39	-	-	48	B			OPEN	40
41	OPEN			C			OPEN	42

NOTES:

A: PANEL SHALL BE EQUAL TO SQUARE D "I-LINE" SERIES

B: ELECTRICIAN SHALL VERIFY EXACT EQUIPMENT OVERCURRENT PROTECTION REQUIREMENTS PRIOR TO PURCHASE & INSTALLATION OF EQUIPMENT.

C: AFTER COMPLETION OF WORK, ELECTRICAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.

D: GUESTROOM PANEL & DISTRIBUTION PANEL DIVERSIFIED LOADS HAVE BEEN CALCULATED IN ACCORDANCE WITH NEC 220.84.

DISTRIBUTION PANEL 'P3A' SCHEDULE

PANEL SPECIFICATIONS			TOTAL CONNECTED LOAD		TOTAL DIVERSIFIED LOAD	
VOLTAGE: 208Y/120V 3-PH	**NEMA RATING:** 1		**PHASE "A" LOAD:** 522 AMPS		**PHASE "A" LOAD:** 205 AMPS	
AMPACITY: 400A MLO	**PANEL MOUNTING:** RECESSED		**PHASE "B" LOAD:** 523 AMPS		**PHASE "B" LOAD:** 200 AMPS	
AIC-RATING: 22kA			**PHASE "C" LOAD:** 474 AMPS		**PHASE "C" LOAD:** 134 AMPS	

CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER
1	GUESTROOM 301 PANEL	60-2	47	A	47	60-2	GUESTROOM 311 PANEL	2
3	-	-	48	B	48	-	-	4
5	GUESTROOM 302 PANEL	60-2	47	C	47	60-2	GUESTROOM 312 PANEL	6
7	-	-	48	A	48	-	-	8
9	GUESTROOM 303 PANEL	60-2	47	B	47	60-2	GUESTROOM 313 PANEL	10
11	-	-	48	C	48	-	-	12
13	GUESTROOM 304 PANEL	60-2	47	A	47	60-2	GUESTROOM 314 PANEL	14
15	-	-	48	B	48	-	-	16
17	GUESTROOM 305 PANEL	60-2	47	C	47	60-2	GUESTROOM 315 PANEL	18
19	-	-	48	A	48	-	-	20
21	GUESTROOM 306 PANEL	60-2	47	B	47	60-2	GUESTROOM 316 PANEL	22
23	-	-	48	C	48	-	-	24
25	GUESTROOM 307 PANEL	60-2	47	A	71	100-2	PANEL 'P3'	26
27	-	-	48	B	66	-	-	28
29	GUESTROOM 308 PANEL	60-2	47	C			OPEN	30
31	-	-	48	A			OPEN	32
33	GUESTROOM 309 PANEL	60-2	47	B			OPEN	34
35	-	-	48	C			OPEN	36
37	GUESTROOM 310 PANEL	60-2	47	A			OPEN	38
39	-	-	48	B			OPEN	40
41	OPEN			C			OPEN	42

NOTES:

A: PANEL SHALL BE EQUAL TO SQUARE D "I-LINE" SERIES

B: ELECTRICIAN SHALL VERIFY EXACT EQUIPMENT OVERCURRENT PROTECTION REQUIREMENTS PRIOR TO PURCHASE & INSTALLATION OF EQUIPMENT.

C: AFTER COMPLETION OF WORK, ELECTRICAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.

D: GUESTROOM PANEL & DISTRIBUTION PANEL DIVERSIFIED LOADS HAVE BEEN CALCULATED IN ACCORDANCE WITH NEC 220.84.

TYPICAL GUESTROOM PANEL 'PXXX' SCHEDULE

PANEL SPECIFICATIONS			TOTAL CONNECTED LOAD	
VOLTAGE: 120/208V 1-PH	**NEMA RATING:** 1		**PHASE "A" LOAD:** 47	AMPS
AMPACITY: 100A MLO	**PANEL MOUNTING:** RECESSED		**PHASE "B" LOAD:** 48	AMPS
AIC-RATING: 10kA				

CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER
1	***RECEPTACLES***	***15-1***	12	A	16	20-2	PTAC	2
3	***RECEPTACLES***	***15-1***	9	B	16	-	-	4
5	BATHROOM RECEPT.	20-1	1.5	A	***8***	***20-1***	***DISHWASHER***	***6***
7	***KITCHENETTE COUNTER RECEPTS.***	***20-1***	***3***	B	***8***	***20-1***	***DISPOSAL***	***8***
9	***KITCHENETTE COUNTER RECEPTS.***	***20-1***	***1.5***	A	***8***	***20-1***	***MICROWAVE***	***10***
11	***LIGHTING***	***15-1***	***4***	B	***8***	***20-1***	***REFRIGERATOR***	***12***
13	***SPARE***	***15-1***		A			OPEN	14
15	SPARE	20-1		B			OPEN	16
17	OPEN			A		20-2	PTAC (IF APPLICABLE)	18
19	OPEN			B		-	-	20

NOTES:

A: PANEL SHALL BE EQUAL TO SQUARE D MODEL "HOMELINE"

B: ELECTRICIAN SHALL VERIFY EXACT EQUIPMENT OVERCURRENT PROTECTION REQUIREMENTS PRIOR TO PURCHASE & INSTALLATION OF EQUIPMENT.

C: AFTER COMPLETION OF WORK, ELECTRICAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.

D: CIRCUIT BREAKERS SHOWN IN ***BOLD ITALIC FONT*** SHALL BE AFCI-PROTECTED.

PANEL 'EV1' SCHEDULE

PANEL SPECIFICATIONS			TOTAL CONNECTED LOAD	
VOLTAGE: 120/208V 3-PH	**NEMA RATING:** 1		**PHASE "A" LOAD:** 80	AMPS
AMPACITY: 400A MLO	**PANEL MOUNTING:** SURFACE		**PHASE "B" LOAD:** 40	AMPS
AIC-RATING: 22kA			**PHASE "C" LOAD:** 40	AMPS

CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER
1	EXTERIOR EV-CHARGING STATION	50-2	40	A		50-2	SPARE	2
3	-	-	40	B		-	-	4
5	EXTERIOR EV-CHARGING STATION	50-2	40	C		50-2	SPARE	6
7	-	-	40	A		-	-	8
9	OPEN			B			OPEN	10
11	OPEN			C			OPEN	12
13	OPEN			A			OPEN	14
15	OPEN			B			OPEN	16
17	OPEN			C			OPEN	18
19	OPEN			A			OPEN	20
21	OPEN			B			OPEN	22
23	OPEN			C			OPEN	24
25	OPEN			A			OPEN	26
27	OPEN			B			OPEN	28
29	OPEN			C			OPEN	30

NOTES:

A: PANEL SHALL BE EQUAL TO SQUARE D MODEL "QO"

B: ELECTRICIAN SHALL VERIFY EXACT EQUIPMENT OVERCURRENT PROTECTION REQUIREMENTS PRIOR TO PURCHASE & INSTALLATION OF EQUIPMENT.

C: AFTER COMPLETION OF WORK, ELECTRICAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.

DISTRIBUTION PANEL 'P3B' SCHEDULE

PANEL SPECIFICATIONS			TOTAL CONNECTED LOAD		TOTAL DIVERSIFIED LOAD	
VOLTAGE: 208Y/120V 3-PH	**NEMA RATING:** 1		**PHASE "A" LOAD:** 554 AMPS		**PHASE "A" LOAD:** 144 AMPS	
AMPACITY: 400A MLO	**PANEL MOUNTING:** RECESSED		**PHASE "B" LOAD:** 539 AMPS		**PHASE "B" LOAD:** 144 AMPS	
AIC-RATING: 22kA			**PHASE "C" LOAD:** 491 AMPS		**PHASE "C" LOAD:** 144 AMPS	

CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER
1	GUESTROOM 317 PANEL	60-2	47	A	47	60-2	GUESTROOM 327 PANEL	2
3	-	-	48	B	48	-	-	4
5	GUESTROOM 318 PANEL	60-2	47	C	47	60-2	GUESTROOM 328 PANEL	6
7	-	-	48	A	48	-	-	8
9	GUESTROOM 319 PANEL	60-2	47	B	47	60-2	GUESTROOM 329 PANEL	10
11	-	-	48	C	48	-	-	12
13	GUESTROOM 320 PANEL	100-2	63	A	47	60-2	GUESTROOM 330 PANEL	14
15	-	-	64	B	48	-	-	16
17	GUESTROOM 321 PANEL	60-2	47	C	63	100-2	GUESTROOM 331 PANEL	18
19	-	-	48	A	64	-	-	20
21	GUESTROOM 322 PANEL	60-2	47	B	47	60-2	GUESTROOM 332 PANEL	22
23	-	-	48	C	48	-	-	24
25	GUESTROOM 323 PANEL	60-2	47	A			OPEN	26
27	-	-	48	B			OPEN	28
29	GUESTROOM 324 PANEL	60-2	47	C			OPEN	30
31	-	-	48	A			OPEN	32
33	GUESTROOM 325 PANEL	60-2	47	B			OPEN	34
35	-	-	48	C			OPEN	36
37	GUESTROOM 326 PANEL	60-2	47	A			OPEN	38
39	-	-	48	B			OPEN	40
41	OPEN			C			OPEN	42

NOTES:

A: PANEL SHALL BE EQUAL TO SQUARE D "I-LINE" SERIES

B: ELECTRICIAN SHALL VERIFY EXACT EQUIPMENT OVERCURRENT PROTECTION REQUIREMENTS PRIOR TO PURCHASE & INSTALLATION OF EQUIPMENT.

C: AFTER COMPLETION OF WORK, ELECTRICAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.

D: GUESTROOM PANEL & DISTRIBUTION PANEL DIVERSIFIED LOADS HAVE BEEN CALCULATED IN ACCORDANCE WITH NEC 220.84.

FEEDER CONDUCTOR SCHEDULE

AMPACITY	CONDUCTORS					EQUIPMENT GROUND		MINIMUM CONDUIT SIZE (PER SET)
	# OF SETS	QUANITITY PER SET		AWG SIZE		AWG SIZE		
		3Ø 'WYE'	1Ø OR 3Ø Δ	COPPER	ALUMINUM	COPPER	ALUMINUM	
30	1	4	3	10	8	10	8	3/4"
40	1	4	3	8	8	8	8	1"
45	1	4	3	8	6	8	8	1"
50	1	4	3	8	6	10	8	1"
60	1	4	3	6	4	10	6	1"
70	1	4	3	4	2	8	6	1-1/4"
80	1	4	3	4	2	8	6	1-1/4"
90	1	4	3	3	2	8	6	1-1/4"
100	1	4	3	3	1	8	6	1-1/4"
110	1	4	3	2	1/0	6	4	1-1/4"
125	1	4	3	1	2/0	6	4	2"
150	1	4	3	1/0	3/0	6	4	2"
175	1	4	3	2/0	4/0	6	4	2"
200	1	4	3	3/0	250	6	4	2-1/2"
225	1	4	3	4/0	300	4	2	2-1/2"
250	1	4	3	250	350	4	2	3"
300	1	4	3	350	500	4	2	4"
350	1	4	3	400	600	3	1	4"
400	1	4	3	500	750	3	1	4"
500	2	4	3	250	350	2	1/0	4"
600	2	4	3	350	500	1	2/0	4"
800	2	4	3	500	750	1/0	3/0	4"
1000	3	4	3	400	350	2/0	4/0	4"
1200	4	4	3	350	500	3/0	250	4"
1600	5	4	3	400	750	4/0	350	4"
2000	6	4	3	400	750	250	400	4"

NOTES:

1. ALL WIRE SIZES SHOWN ARE BASED ON CONDUCTOR TEMPERATURE RATING OF 75°C & AMBIENT TEMPERATURE RATING OF 30°C PER NEC.
2. MAXIMUM ALLOWABLE VOLTAGE DROP FOR FEEDER CONDUCTORS SHALL BE 2%.
3. ELECTRICAL CONTRACTOR TO ADJUST CONDUCTOR SIZES FOR LONG CIRCUIT LENGTHS & AMBIENT TEMPERATURES HIGHER THAN 30°C.

BRANCH CIRCUIT CONDUCTOR SCHEDULE

AMPACITY	COPPER AWG SIZE	MAXIMUM DISTANCE (FEET)				MINIMUM CONDUIT SIZE
		1Ø		3Ø		
		120V	277V	208V	480V	
20	12	55'	130'	115'	260'	1/2"
	10	90'	205'	180'	415'	3/4"
30	10	60'	135'	120'	275'	3/4"
	8	95'	220'	190'	445'	1"
35	8	80'	190'	165'	380'	1"
	6	130'	300'	260'	605'	1"
40	8	70'	165'	145'	330'	1"
	6	110'	260'	225'	525'	1"
45	6	100'	235'	200'	470'	1'
	4	160'	370'	325'	750'	1-1/4"
50	6	90'	210'	180'	420'	1-1/4"
	4	145'	335'	290'	675'	1-1/4"
60	6	75'	175'	150'	350'	1-1/4"
	4	120'	280'	240'	560'	1-1/4"
70	4	105'	240'	205'	480'	1-1/4"
	3	130'	300'	260'	605'	1-1/4"
80	4	55'	210'	180'	420'	1-1/4"
	3	90'	260'	230'	530'	1-1/4"
90	3	100'	235'	200'	470'	1-1/4"
	2	125'	295'	255'	595'	1-1/4"
100	3	90'	210'	180'	420'	1-1/4"
	2	115'	265'	230'	535'	1-1/4"

NOTES:

1. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER. ALL WIRE SIZES SHOWN ARE BASED ON CONDUCTOR TEMPERATURE RATING OF 75°C & AMBIENT TEMPERATURE OF 30°C PER NEC.
2. DISTANCE SHOWN ABOVE IS LENGTH FROM OVERCURRENT PROTECTION TO DEVICE/EQUIPMENT.
3. REFER TO PLAN SHEETS FOR BRANCH CONDUCTOR SIZING LENGTHS GREATER THAN SHOWN ABOVE.
4. VOLTAGE DROP CALCULATIONS BASED ON 3% DROP, 80% CIRCUIT LOAD, THHN/THWN INSULATION, 100% POWER FACTOR, BALANCED LOAD, NEGLIGIBLE REACTANCE, & SIX OR LESS CURRENT-CARRYING CONDUCTORS IN RACEWAY.

STATE OF MISSOURI
JAMES P. WATSON
NUMBER PE-2015017071
PROFESSIONAL ENGINEER

James Watson, P.E. April 17, 2024
PE-2015017071
MO Certificate of Authority # 2018029680

J-SQUARED ENGINEERING
2400 Bluff Creek Drive, Suite 101
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J2 PROJECT No: J21005
J2 DESIGN: ACW

ISSUE TITLE	DATE
CITY SUBMISSION	04 / 17 / 2024

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Home 2 Suites By Hilton

Village at Discovery Park Lot 2
Lee's Summit, MO

AHJ APPROVAL STAMP

SHEET TITLE

ELECTRICAL SCHEDULES

SHEET NUMBER

E603

ELECTRICAL PANEL 'P4' SCHEDULE

PANEL SPECIFICATIONS			TOTAL CONNECTED LOAD	
VOLTAGE: 120/208V 3-PH	**NEMA RATING:** 1		**PHASE "A" LOAD:**	166 AMPS
AMPACITY: 200A MLO	**PANEL MOUNTING:** RECESSED		**PHASE "B" LOAD:**	150 AMPS
AIC-RATING: 10kA			**PHASE "C" LOAD:**	115 AMPS

CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER
1	CORRIDOR RECEPTS.	20-1	9	A	51	60-2	AHU-12	2
3	ICE MACHINE	20-1	8	B	51	-	-	4
5	LAUNDRY RECEPTS.	20-1	6	C	14	25-2	CU-12	6
7	I.T. QUAD	20-1	3	A	14	-	-	8
9	I.T. QUAD	20-1	3	B	2	20-1	FIRE/SMOKE DAMPERS	10
11	MAG HOLDS	20-1	3	C	2	20-1	FIRE/SMOKE DAMPERS	12
13	ELEVATOR LIGHTS & MISC.	20-1 ST	3	A	42	60-3	ELEVATOR DISCONNECT	14
15	SHUNT TRIP SPACE	ST		B	42	-	-	16
17	ELEVATOR LIGHTS & MISC.	20-1 ST	3	C	42	-	-	18
19	SHUNT TRIP SPACE	ST		A		ST	SHUNT TRIP SPACE	20
21	CORRIDOR SCONCES	20-1	2	B	42	60-3	ELEVATOR DISCONNECT	22
23	CORRIDOR DOWNLIGHTS	20-1	3	C	42	-	-	24
25	LOBBY / LAUNDRY LIGHTING	20-1	2	A	42	-	-	26
27	SPARE	20-1		B		ST	SHUNT TRIP SPACE	28
29	SPARE	20-1		C				30

NOTES:
A: PANEL SHALL BE EQUAL TO SQUARE D MODEL "QO"
B: ELECTRICIAN SHALL VERIFY EXACT EQUIPMENT OVERCURRENT PROTECTION REQUIREMENTS PRIOR TO PURCHASE & INSTALLATION OF EQUIPMENT.
C: AFTER COMPLETION OF WORK, ELECTRICAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.

DISTRIBUTION PANEL 'P4A' SCHEDULE

PANEL SPECIFICATIONS		TOTAL CONNECTED LOAD		TOTAL DIVERSIFIED LOAD	
VOLTAGE: 208Y/120V 3-PH	**NEMA RATING:** 1	**PHASE "A" LOAD:**	522 AMPS	**PHASE "A" LOAD:**	300 AMPS
AMPACITY: 400A MLO	**PANEL MOUNTING:** RECESSED	**PHASE "B" LOAD:**	523 AMPS	**PHASE "B" LOAD:**	284 AMPS
AIC-RATING: 22kA		**PHASE "C" LOAD:**	474 AMPS	**PHASE "C" LOAD:**	249 AMPS

CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER
1	GUESTROOM 401 PANEL	60-2	47	A	47	60-2	GUESTROOM 411 PANEL	2
3	-	-	48	B	48	-	-	4
5	GUESTROOM 402 PANEL	60-2	47	C	47	60-2	GUESTROOM 412 PANEL	6
7	-	-	48	A	48	-	-	8
9	GUESTROOM 403 PANEL	60-2	47	B	47	60-2	GUESTROOM 413 PANEL	10
11	-	-	48	C	48	-	-	12
13	GUESTROOM 404 PANEL	60-2	47	A	47	60-2	GUESTROOM 414 PANEL	14
15	-	-	48	B	48	-	-	16
17	GUESTROOM 405 PANEL	60-2	47	C	47	60-2	GUESTROOM 415 PANEL	18
19	-	-	48	A	48	-	-	20
21	GUESTROOM 406 PANEL	60-2	47	B	47	60-2	GUESTROOM 416 PANEL	22
23	-	-	48	C	48	-	-	24
25	GUESTROOM 407 PANEL	60-2	47	A	166	200-3	PANEL 'P4'	26
27	-	-	48	B	150	-	-	28
29	GUESTROOM 408 PANEL	60-2	47	C	115		-	30
31	-	-	48	A			OPEN	32
33	GUESTROOM 409 PANEL	60-2	47	B			OPEN	34
35	-	-	48	C			OPEN	36
37	GUESTROOM 410 PANEL	60-2	47	A			OPEN	38
39	-	-	48	B			OPEN	40
41	OPEN			C			OPEN	42

NOTES:
A: PANEL SHALL BE EQUAL TO SQUARE D "I-LINE" SERIES
B: ELECTRICIAN SHALL VERIFY EXACT EQUIPMENT OVERCURRENT PROTECTION REQUIREMENTS PRIOR TO PURCHASE & INSTALLATION OF EQUIPMENT.
C: AFTER COMPLETION OF WORK, ELECTRICAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.
D: GUESTROOM PANEL & DISTRIBUTION PANEL DIVERSIFIED LOADS HAVE BEEN CALCULATED IN ACCORDANCE WITH NEC 220.84.

LIGHT FIXTURE SCHEDULE

TAG	DESCRIPTION	LOCATION	DIMENSIONS	OPTICS	MOUNTING	FINISH	DIMMING	CCT (°K)	CRI	LUMEN OUTPUT	VOLTAGE	WATTS	NOTES
B01	EXTERIOR BOLLARD	EXTERIOR WALKWAYS	NOMINAL 42" TALL	TYPE 3 OPTIC	FLUSH CONCRETE BASE	TBD	0-10V; 1% - 100%	3000	80	1000	120	10	
E1	INTERIOR EXIT LIGHT WITH (2) HEADS	EGRESS PATHS	-	-	SURFACE	SEE FF&E SPECS FOR COMPLETE FINISH INFORMATION	-	-	-	-	120	-	
E2	INTERIOR EXIT LIGHT WITH REMOTE HEAD	EGRESS PATHS	-	-	SURFACE	SEE FF&E SPECS FOR COMPLETE FINISH INFORMATION	-	-	-	-	120	-	
E3	EMERGENCY EGRESS LIGHT	EGRESS PATHS	-	-	SURFACE	SEE FF&E SPECS FOR COMPLETE FINISH INFORMATION	-	-	-	-	120	-	
G01	EXTERIOR LINEAR STRINGLIGHT	EXTERIOR SEATING	SOCKETS 24" ON CENTER	FROST OR CLEAR LAMP	STRING	TBD	FORWARD PHASE	2700	80	450 / LAMP	120	5 / LAMP	TCP #FST19D4027E26 OR EQUAL
G02	EXTERIOR LINEAR TAPELIGHT	EXTERIOR	NOMINAL 1"x 1"	SEMI-DIFFUSE WHITE LENS	SURFACE / CHANNEL	-	0-10V; 1% - 100%	4000	80	650 / FT	120	7 / FT	WET LOCATION RATED REMOTE 24V POWER SUPPLY
G03	EXTERIOR LINEAR TAPELIGHT	EXTERIOR	NOMINAL 1"x 1"	SEMI-DIFFUSE WHITE LENS	SURFACE / CHANNEL	-	0-10V; 1% - 100%	2700	80	650 / FT	120	7 / FT	WET LOCATION RATED REMOTE 24V POWER SUPPLY
LR01	RECESSED LINEAR	RECESSED LINEAR	NOMINAL 2.5" WIDE	DIFFUSE LENS	RECESSED	COLOR: WHITE, FINISH: MATTE	0-10V; 1% - 100%	3000	90	650 / FT	120	7 / FT	
LR02	RECESSED LINEAR	RECESSED LINEAR	NOMINAL 2.5" WIDE	DIFFUSE LENS	RECESSED	COLOR: WHITE, FINISH: MATTE	0-10V; 1% - 100%	3000	90	390 / FT	120	3.2 / FT	
LR03	RECESSED LINEAR	LINEAR TAPE LIGHT	NOMINAL 1"x 1"	DIFFUSE LENS	SURFACE	DIFFUSE: WHITE LENS, FINISH: MATTE	0-10V; 1% - 100%	2700	90	650 / FT	120	7 / FT	WITH REMOTE POWER SUPPLY
P1	PENDANT	BEVERAGE AREA	-	-	PENDANT	SEE FF&E SPECS FOR COMPLETE FINISH INFORMATION	-	-	-	-	120	50 MAX	SEE FF&E SPECS
P2	PENDANT	RECEPTION DESK	-	-	PENDANT	SEE FF&E SPECS FOR COMPLETE FINISH INFORMATION	-	-	-	-	120	50 MAX	SEE FF&E SPECS
R1	2" DOWNLIGHT	GENERAL PUBLIC AREAS	NOMINAL 2.5" APERTURE	NOMINAL 30° OPTIC	RECESSED	WHITE FLANGE, WHITE TRIM, FINISH: MATTE	0-10V; 1% - 100%	2700	90	800	120	10	
R1E	2" DOWNLIGHT (EMERGENCY)	GENERAL PUBLIC AREAS	NOMINAL 2.5" APERTURE	NOMINAL 30° OPTIC	RECESSED	WHITE FLANGE, WHITE TRIM, FINISH: MATTE	0-10V; 1% - 100%	2700	90	800	120	10	WITH EMERGENCY BATTERY BACKUP
R10	4" DOWNLIGHT	FITNESS	NOMINAL 4" APERTURE	WIDE OPTIC	RECESSED	WHITE FLANGE, MATTE SILVER REFLECTOR, FINISH: SATIN	0-10V; 1% - 100%	3000	90	1800	120	23	
R11	4" DOWNLIGHT	GUEST CORRIDORS	NOMINAL 4" APERTURE	NARROW OPTIC	RECESSED	WHITE FLANGE, WHITE TRIM, FINISH: MATTE	0-10V; 1% - 100%	2700	90	900	120	13	
R2	2" DOWNLIGHT	EXTERIOR PORTICO	NOMINAL 2.5" APERTURE	NOMINAL 30° OPTIC	RECESSED	BLACK FLANGE, BLACK TRIM, FINISH: MATTE	0-10V; 1% - 100%	2700	90	800	120	10	PROVIDE WET-LABEL LENS
R20	4" DOWNLIGHT	POOL SOFFIT	NOMINAL 4" APERTURE	NARROW OPTIC	RECESSED	WHITE FLANGE, WHITE BAFFLE TRIM, FINISH: MATTE	0-10V; 1% - 100%	3000	90	900	120	14	UL WET LISTED
R6	4" DOWNLIGHT (WALL WASH)	ELEVATOR / DINING SERVICE	NOMINAL 3.5" APERTURE	ASYMMETRIC WALLWASH LENSED OPTIC	RECESSED	WHITE FLANGE, MATT SILVER REFLECTOR, FINISH: MATTE	0-10V; 1% - 100%	2700	90	1800	120	23	
S1	SURFACE MOUNT UTILITY	ELEC/MECH/STORAGE	48"L	ROUND FULL FROST LENS	SURFACE	COLOR: WHITE; FINISH: MATTE	N/A	3000	80	5000	120	33	
S2	SURFACE MOUNT UTILITY	ENCLOSED STAIRWELLS	48"L	ROUND FULL FROST LENS	SURFACE	COLOR: WHITE; CEILING FINISH: MATTE; WALL FINISH: SATIN	INTEGRAL 10% - 100%	3000	80	5000	120	50	INTEGRAL OCCUPANCY SENSOR; 10% DIM WHEN UNOCCUPIED, 100% WHEN OCCUPANCY DETECTED
S20	SURFACE DOWNLIGHT	PUBLIC RESTROOMS	NOMINAL 6" DIAMETER, 3/4" TALL, ROUND	WIDE OPTIC	SURFACE	COLOR: WHITE, FINISH: WHITE	0-10V; 1% - 100%	3000	90	600	120	10	SURFACE MOUNT TO RECESSED JUNCTION BOX
S21	SURFACE DOWNLIGHT	GUESTROOM BATHROOM	NOMINAL 6" DIAMETER, 3/4" TALL, ROUND	WIDE OPTIC	SURFACE	COLOR: WHITE, FINISH: WHITE	0-10V; 1% - 100%	2700	90	800	120	10	SURFACE MOUNT TO RECESSED JUNCTION BOX
S22	SURFACE DOWNLIGHT	POOL	NOMINAL 5" DIAMETER, 5" TALL	WIDE OPTIC	SURFACE	COLOR: WHITE, FINISH: MATTE	0-10V; 1% - 100%	3000	90	1000	120	10	SURFACE MOUNT TO RECESSED JUNCTION BOX
S3	EXTERIOR WALL SCONCE	REAR ENTRIES / POOL ENTRY	5" ROUND	ROUND FULL FROST LENS	SURFACE	COLOR: WHITE, WALL FINISH: SATIN	INTEGRAL 10% - 100%	3000	80	600	120	10	INTEGRAL OCCUPANCY SENSOR; 10% DIM WHEN UNOCCUPIED, 100% WHEN OCCUPANCY DETECTED
S4	VAPORTIGHT UTILITY	ELEVATOR PIT	48"L	WIDE OPTIC	SURFACE	COLOR: WHITE	-	4000	80	5000	120	33	UL WET LISTED
T1	2x2 TROFFER	GENERAL BACK OF HOUSE	24"x 24"	FLAT WHITE LENS	RECESSED	COLOR: WHITE; FINISH: WHITE	0-10V; 1% - 100%	3000	80	2000	120	19	UL DAMP LOCATION LISTED, NSF SPLASH ZONE 2
T2	2x2 TROFFER	FOOD PREP	24"x 24"	FLAT WHITE LENS	RECESSED	COLOR: WHITE; FINISH: WHITE	0-10V; 1% - 100%	3000	80	3000	120	30	UL DAMP LOCATION LISTED, NSF SPLASH ZONE 2
TR1	TRACK SYSTEM	LOBBY / BREAKFAST	SEE PLANS FOR LENGTH	-	SURFACE	HITE TRACK AT WHITE CEILINGS; BLACK TRACK AT WOOD SLAT	0-10V; 1% - 100%	-	-	-	120	600 MAX	
TR10	TRACK SYSTEM	MARKET	3" DIAMETER, 5" LONG, ROUND	ADJUSTABLE OPTIC 17° - 53°	SURFACE	SEE FF&E SPECS FOR COMPLETE FINISH INFORMATION	0-10V; 1% - 100%	-	-	-	120	300 MAX	
TR2	TRACK SYSTEM	RECEPTION DESK	SEE PLANS FOR LENGTH	-	SURFACE	SEE FF&E SPECS FOR COMPLETE FINISH INFORMATION	0-10V; 1% - 100%	-	-	-	120	200 MAX	
WS1	WALL SCONCE	GUEST CORRIDORS	4" DEEP (MAX), 10" TALL	DIFFUSE UPLIGHT + DOWNLIGHT	SURFACE	SEE FF&E SPECS FOR COMPLETE FINISH INFORMATION	ELV	2700	90	300	120	10	SATCO LAMPS FROSTED A15 S9151
WS10	WALL SCONCE	POOL	-	-	-	SEE FF&E SPECS FOR COMPLETE FINISH INFORMATION	-	-	-	-	120	20 MAX	
WS2	WALL SCONCE	LOBBY RESTROOMS	36"L	DIFFUSE UPLIGHT + DOWNLIGHT	SURFACE	SEE FF&E SPECS FOR COMPLETE FINISH INFORMATION	ELV	3000	90	3600	120	43	
WS3	WALL SCONCE	GUESTROOM BATHROOM	36"L	DIFFUSE 3-SIDE LENS	SURFACE	SEE FF&E SPECS FOR COMPLETE FINISH INFORMATION	ELV	3000	90	3600	120	43	
WS4	WALL SCONCE	GUESTROOM NIGHT STAND	-	-	-	SEE FF&E SPECS FOR COMPLETE FINISH INFORMATION	-	-	-	-	120	20 MAX	
WS5	WALL SCONCE	GUESTROOM COUCH	-	-	-	SEE FF&E SPECS FOR COMPLETE FINISH INFORMATION	-	-	-	-	120	20 MAX	
WS6	WALL SCONCE	GUESTROOM DESK	-	-	-	SEE FF&E SPECS FOR COMPLETE FINISH INFORMATION	-	-	-	-	120	20 MAX	
WS7	WALL SCONCE	DINING AREA	-	-	-	SEE FF&E SPECS FOR COMPLETE FINISH INFORMATION	-	-	-	-	120	20 MAX	
WS8	WALL SCONCE	DINING PRIVATE BOOTH	-	-	-	SEE FF&E SPECS FOR COMPLETE FINISH INFORMATION	-	-	-	-	120	20 MAX	
WS9	WALL SCONCE	GUESTROOM DINING TABLE	-	-	-	SEE FF&E SPECS FOR COMPLETE FINISH INFORMATION	-	-	-	-	120	20 MAX	

NOTES:
1. VERIFY LIGHT FIXTURE FINISHES WITH OWNER / ARCHITECT PRIOR TO INSTALLATION.
2. LIGHT FIXTURES PROVIDED BY OWNER THRU NATIONAL ACCOUNT AND INSTALLED BY ELECTRICAL CONTRACTOR.
3. ALL LIGHT FIXTURE QUANITTIES TO BE VERIFIED BY ELECTRICAL CONTRACTOR PRIOR TO ORDERING.
4. CONTACT JUSTIN HATIFLED (573) 289-0880 (JHATFIELD@LAIWEB.NET) OR PAUL WARNER (314) 531-3500 (PWARNER@LAIWEB.NET) AT LIGHTING ASSOCIATES, INC. FOR NATIONAL ACCOUNT DETAILS.

STATE OF MISSOURI
JAMES P. WATSON
NUMBER PE-2015017071
PROFESSIONAL ENGINEER

James Watson, P.E. April 17, 2024
PE-2015017071
MO Certificate of Authority # 2018029680

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J2 PROJECT No: J21005
J2 DESIGN: ACW

ISSUE TITLE	DATE
CITY SUBMISSION	04 / 17 / 2024

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:
Home 2 Suites By Hilton
Village at Discovery Park Lot 2
Lee's Summit, MO

AHU APPROVAL STAMP

SHEET TITLE
ELECTRICAL SCHEDULES

SHEET NUMBER
E604

SANITARY SEWER PLAN SYMBOL LEGEND

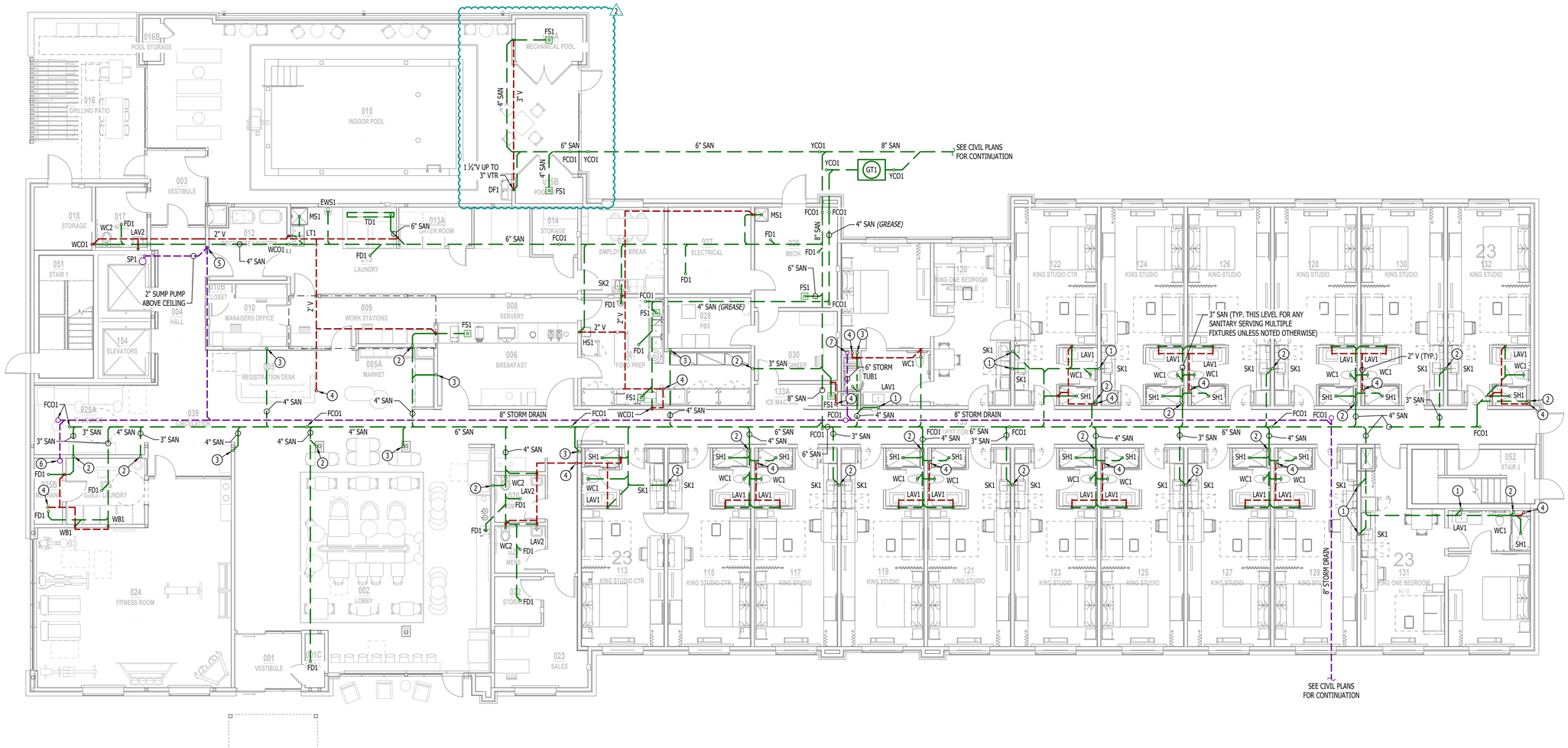
- SANITARY SEWER PIPING
- VENT PIPING
- STORM DRAIN PIPING
- PIPING TURNED DOWN / TURNED UP
- TIE INTO EXISTING

SANITARY SEWER PLAN GENERAL NOTES:

1. SEE SHEET P501 FOR ADDITIONAL PLUMBING NOTES, DETAILS, & SCHEDULES.

SANITARY SEWER PLAN KEY NOTES:

1. 2" SAN DOWN FROM SECOND FLOOR.
2. 3" SAN DOWN FROM SECOND FLOOR.
3. 4" SAN DOWN FROM SECOND FLOOR.
4. 2" VENT UP TO SECOND FLOOR
5. 2" SUMP PUMP INDIRECT DISCHARGE TO HUB DRAIN ACCESSIBLE ABOVE LAY IN CEILING IN DISCHARGE LAUNDRY ROOM 012.
6. 8" PRIMARY STORM DRAIN DOWN FROM ROOF.
7. 6" PRIMARY STORM DRAIN DOWN FROM ROOF.



SANITARY SEWER PLAN - FIRST FLOOR

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

STATE OF MISSOURI
JAMES P. WATSON
NUMBER PE-2015017071
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James Watson, P.E. June 14, 2024
PE-2015017071
MO Certificate of Authority # 2018029680

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J2 PROJECT No:	J21005
J2 DESIGN:	ACW

ISSUE TITLE	DATE
CITY SUBMISSION	04 / 17 / 2024
REVISION 1 - CITY RESPONSE	05 / 17 / 2024
2 CITY & BRAND RESPONSE	06 / 14 / 2024

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Home 2 Suites By Hilton

Village at Discovery Park Lot 2
Lee's Summit, MO

AHU APPROVAL STAMP

SHEET TITLE

SANITARY SEWER PLAN - FIRST FLOOR

SHEET NUMBER

PS101

SANITARY SEWER PLAN SYMBOL LEGEND

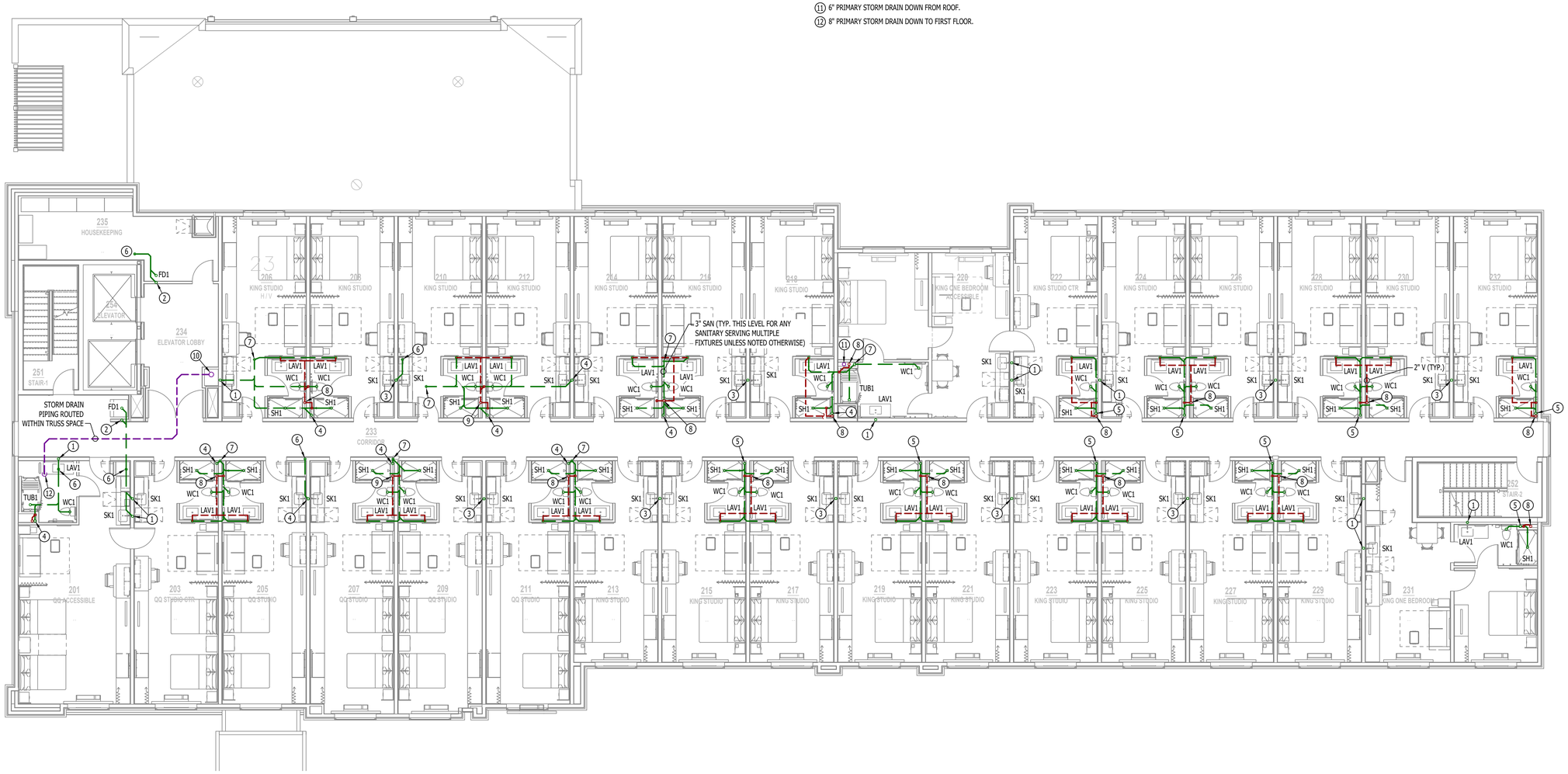
- SANITARY SEWER PIPING
- VENT PIPING
- STORM DRAIN PIPING
- PIPING TURNED DOWN / TURNED UP
- TIE INTO EXISTING

SANITARY SEWER PLAN GENERAL NOTES:

1. SEE SHEET P501 FOR ADDITIONAL PLUMBING NOTES, DETAILS, & SCHEDULES.

SANITARY SEWER PLAN KEY NOTES:

1. 2" WASTE STACK VENT DOWN FROM THIRD FLOOR; CONTINUES DOWN TO FIRST FLOOR.
2. 2" SAN DOWN FROM THIRD FLOOR.
3. 3" WASTE STACK VENT DOWN FROM THIRD FLOOR; CONTINUES DOWN TO FIRST FLOOR.
4. 3" SAN DOWN FROM THIRD FLOOR.
5. 3" SAN DOWN FROM THIRD FLOOR; CONTINUES DOWN TO FIRST FLOOR.
6. 3" SAN DOWN TO FIRST FLOOR.
7. 4" SAN DOWN TO FIRST FLOOR.
8. 2" VENT UP FROM FIRST FLOOR; 3" VENT CONTINUES UP TO THIRD FLOOR.
9. 3" VENT UP TO THIRD FLOOR.
10. 8" PRIMARY STORM DRAIN DOWN FROM ROOF.
11. 6" PRIMARY STORM DRAIN DOWN FROM ROOF.
12. 8" PRIMARY STORM DRAIN DOWN TO FIRST FLOOR.



SANITARY SEWER PLAN - SECOND FLOOR

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

STATE OF MISSOURI
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J2 PROJECT No:	J21005
J2 DESIGN:	ACW

ISSUE TITLE	DATE
CITY SUBMISSION	04 / 17 / 2024

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Home 2 Suites By Hilton

Village at Discovery Park Lot 2
Lee's Summit, MO

AHJ APPROVAL STAMP

SHEET TITLE

SANITARY SEWER PLAN - SECOND FLOOR

SHEET NUMBER

PS102

SANITARY SEWER PLAN SYMBOL LEGEND

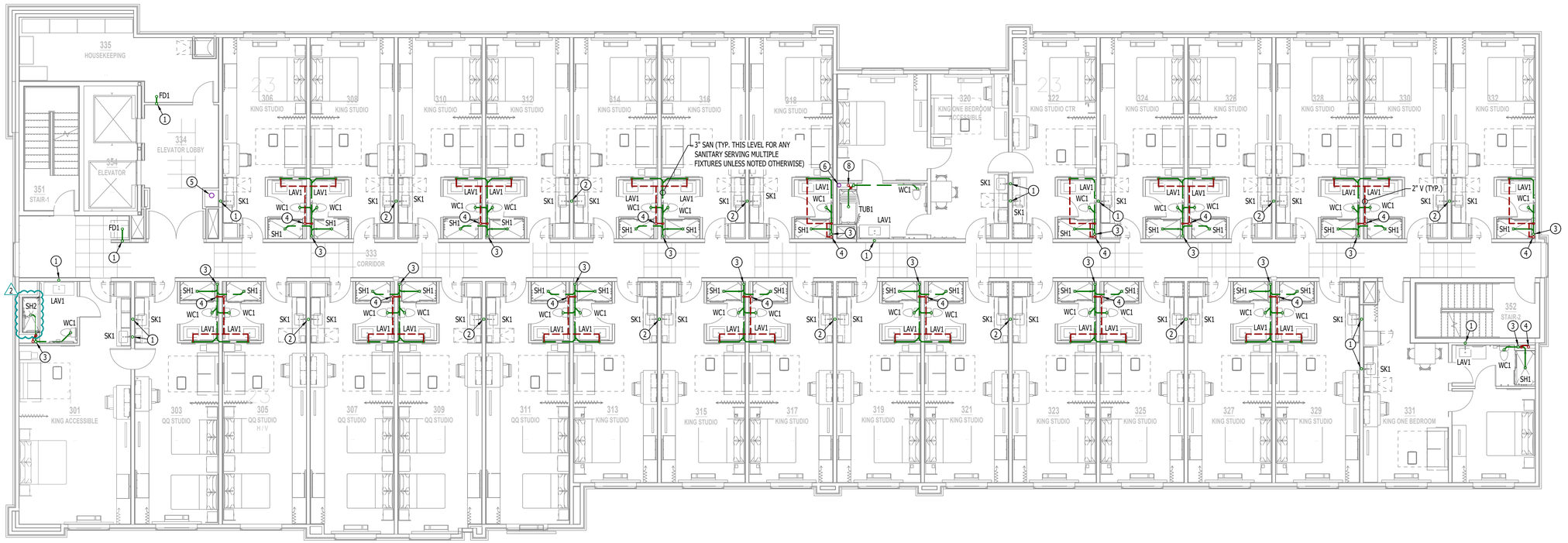
- SANITARY SEWER PIPING
- VENT PIPING
- STORM DRAIN PIPING
- PIPING TURNED DOWN / TURNED UP
- TIE INTO EXISTING

SANITARY SEWER PLAN GENERAL NOTES:

1. SEE SHEET P501 FOR ADDITIONAL PLUMBING NOTES, DETAILS, & SCHEDULES.

SANITARY SEWER PLAN KEY NOTES:

1. 2" WASTE STACK VENT DOWN FROM FOURTH FLOOR; CONTINUES DOWN TO SECOND FLOOR.
2. 2" WASTE STACK VENT DOWN FROM FOURTH FLOOR; 3" CONTINUES DOWN TO SECOND FLOOR.
3. 3" SAN DOWN FROM FOURTH FLOOR; CONTINUES DOWN TO SECOND FLOOR.
4. 3" VENT UP FROM FIRST FLOOR; 3" VENT CONTINUES UP TO THIRD FLOOR.
5. 8" PRIMARY STORM DRAIN PIPING DOWN FROM ROOF.
6. 6" PRIMARY STORM DRAIN PIPING DOWN FROM ROOF.



SANITARY SEWER PLAN - THIRD FLOOR

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

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J2 PROJECT No:	J21005
J2 DESIGN:	ACW

ISSUE TITLE	DATE
CITY SUBMISSION	04 / 17 / 2024
CITY & BRAND RESPONSE	06 / 14 / 2024

2

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Home 2 Suites By Hilton

Village at Discovery Park Lot 2
Lee's Summit, MO

AHJ APPROVAL STAMP

SHEET TITLE

SANITARY SEWER PLAN - THIRD FLOOR

SHEET NUMBER

PS103

SANITARY SEWER PLAN SYMBOL LEGEND

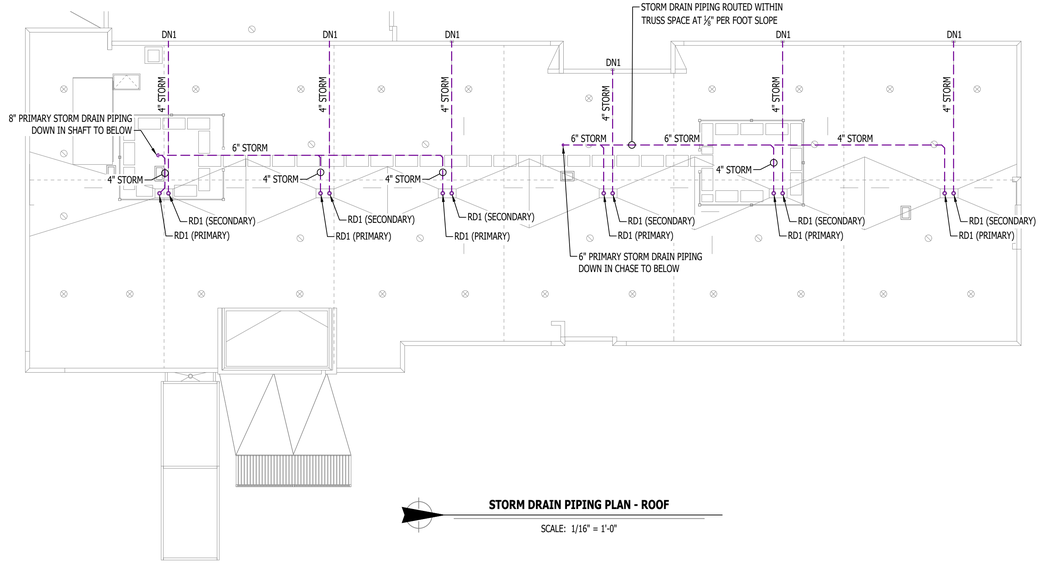
- SANITARY SEWER PIPING
- VENT PIPING
- STORM DRAIN PIPING
- PIPING TURNED DOWN / TURNED UP
- TIE INTO EXISTING

SANITARY SEWER PLAN GENERAL NOTES:

1. SEE SHEET PS01 FOR ADDITIONAL PLUMBING NOTES, DETAILS, & SCHEDULES.
2. OFFSET VENT PIPING AS NECESSARY TO MAINTAIN 10' SEPARATION (MIN.) BETWEEN VENT LOCATION & MECHANICAL FRESH AIR INTAKES.

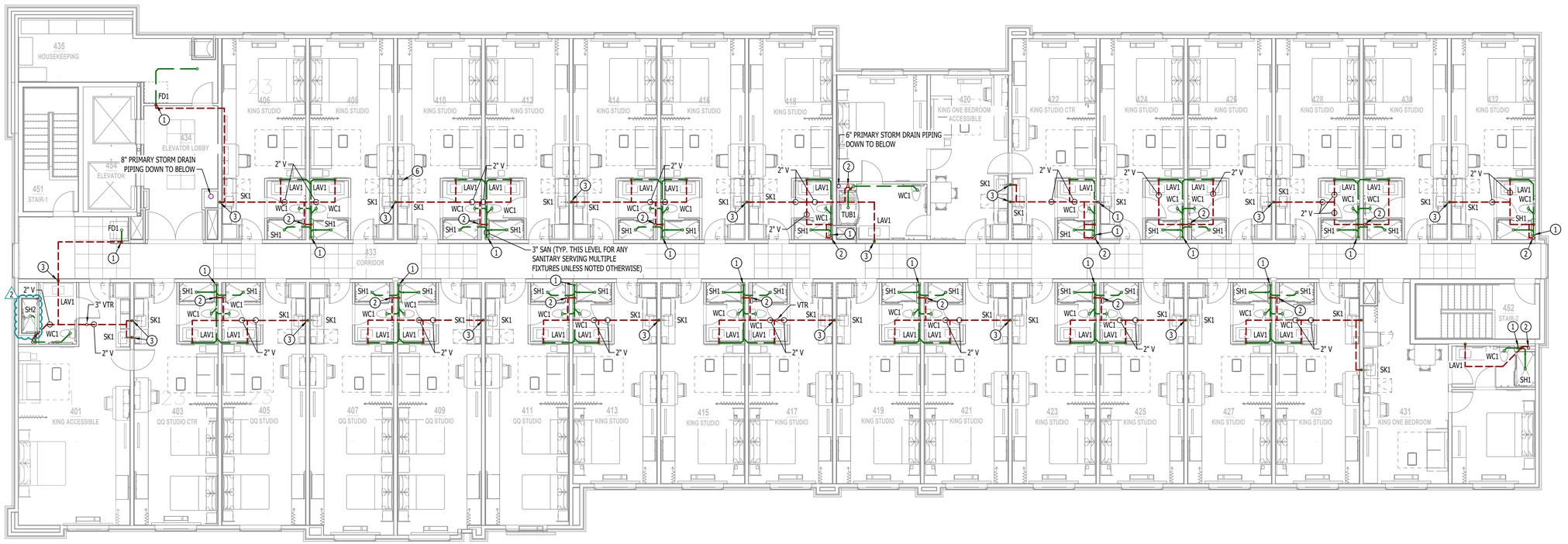
SANITARY SEWER PLAN KEY NOTES:

1. 3" SAN DOWN TO THIRD FLOOR.
2. 3" VENT UP FROM THIRD FLOOR; CONTINUES UP THRU ROOF TO 3" VTR.
3. 2" WASTE STACK VENT DOWN TO THIRD FLOOR.



STORM DRAIN PIPING PLAN - ROOF

SCALE: 1/16" = 1'-0"



SANITARY SEWER PLAN - FOURTH FLOOR

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

STATE OF MISSOURI
JAMES P. WATSON
NUMBER PE-2015017071
PROFESSIONAL ENGINEER

James Watson, P.E. June 14, 2024
PE-2015017071
MO Certificate of Authority # 2018029680

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Columbia, Missouri 65201
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J2 PROJECT No:	J21005
J2 DESIGN:	ACW

ISSUE TITLE	DATE
CITY SUBMISSION	04 / 17 / 2024
CITY & BRAND RESPONSE	06 / 14 / 2024

2

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Home 2 Suites By Hilton

Village at Discovery Park Lot 2
Lee's Summit, MO

AHJ APPROVAL STAMP

SHEET TITLE

SANITARY SEWER PLAN - FOURTH FLOOR

SHEET NUMBER

PS104

WATER & GAS PLAN SYMBOL LEGEND

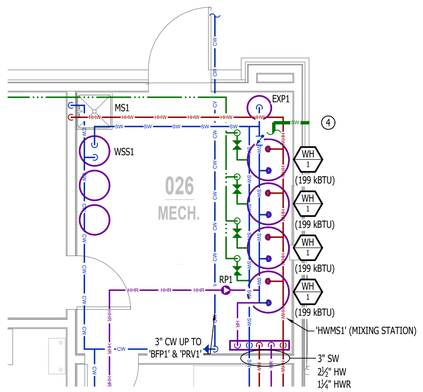
- COLD HARD WATER LINE (CW)
- COLD SOFT WATER LINE (SW)
- HOT WATER LINE (HW) (110°F)
- HOT WATER RECIRCULATION LINE (HR)
- HOT HOT WATER LINE (HHW) (140°F)
- HOT HOT WATER RECIRCULATION LINE (HHR)
- WATER METER
- VALVE
- PUMP
- GAS LINE
- GAS METER
- PIPING TURNED DOWN / TURNED UP

WATER & GAS PLAN GENERAL NOTES:

1. SEE SHEET P501 FOR ADDITIONAL PLUMBING NOTES, DETAILS, & SCHEDULES.

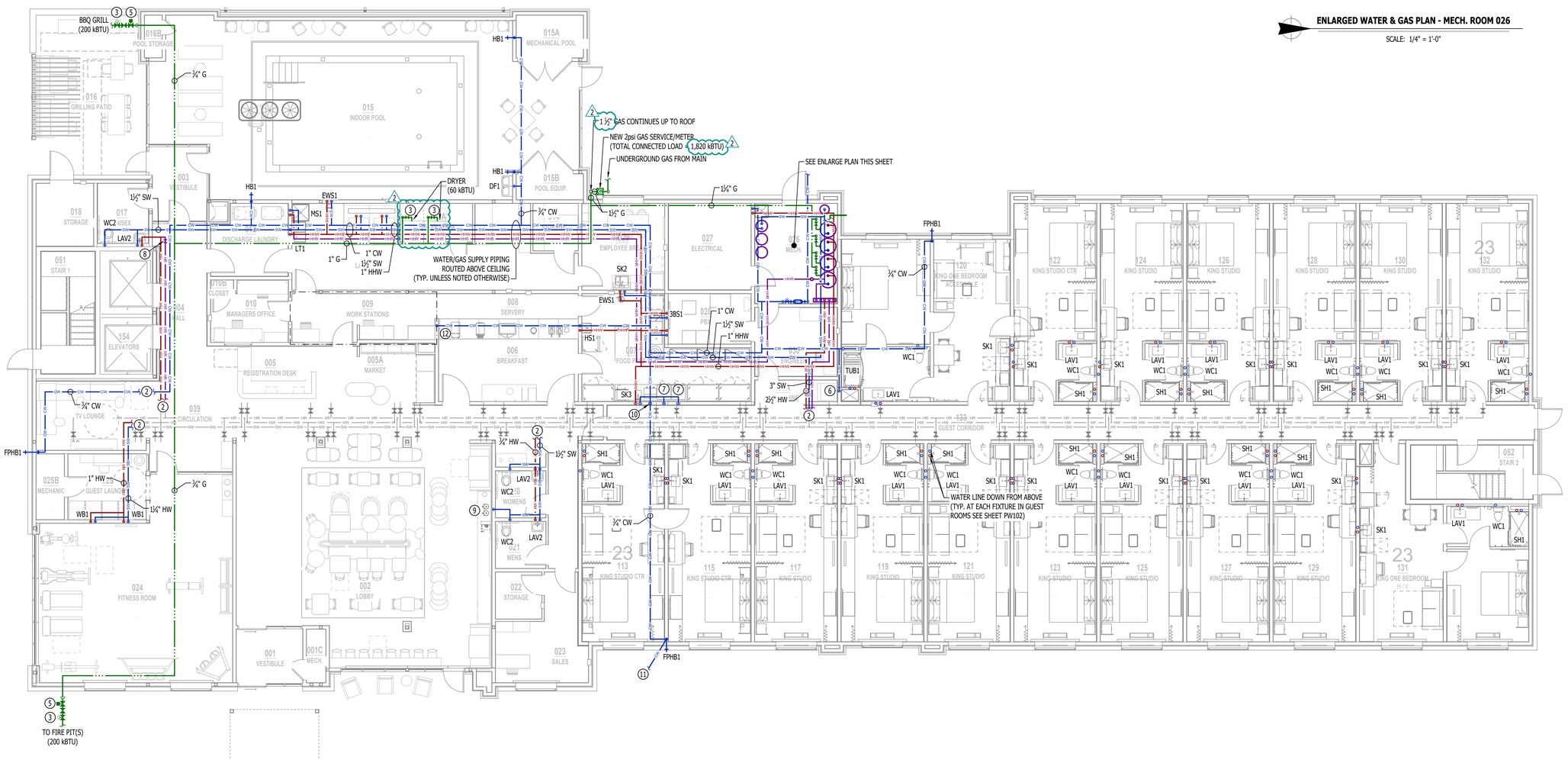
WATER & GAS PLAN KEY NOTES:

1. CW UP TO ICE MAKER ON SECOND THRU FOURTH FLOORS.
2. SEE SHEET PW102 FOR CONTINUATION
3. 2 PSI TO 11" W.C. VENTLESS REGULATOR AT APPLIANCE CONNECTION.
4. WATER HEATER VENT & COMBUSTION AIR TO CONCENTRIC VENT THRU WALL; INSTALL PER MANUFACTURER SPECIFICATIONS.
5. PROVIDE & INSTALL 120V ELECTRICALLY HELD (NORMALLY CLOSED) SOLENOID ON GAS LINE FOR EMERGENCY SHUT-OFF; COORDINATE WITH ELECTRICAL CONTRACTOR.
6. ½" CW TO ICE MAKER WITH 'BFP3' A EQUIPMENT CONNECTION.
7. ½" CW TO CONVECTION OVEN WITH 'BFP3' A EQUIPMENT CONNECTION.
8. PROVIDE & INSTALL AUTOMATIC FLOW BALANCING VALVE EQUAL TO WATTS #LFIDROSET IN HWR LINE IN ACCESSIBLE LOCATION IN CORRIDOR; SET FLOW TO 0.5 GPM.
9. CW STUBBED DOWN TO HYDRATION STATION. COORDINATE EXACT LOCATION & REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN.
10. ½" CW TO COFFEE MAKER WITH 'BFP3' A EQUIPMENT CONNECTION.
11. ¾" CW UNDERGROUND TO YARD HYDRANT AT DUMPSTER ENCLOSURE (SEE SHEET MEP2).
12. ½" CW DOWN IN WALL TO 'BFP3' IN CASEWORK FOR JUICE MACHINE CONNECTION. COORDINATE WITH CASEWORK SUPPLIER/INSTALLER.



ENLARGED WATER & GAS PLAN - MECH. ROOM 026

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



WATER & GAS PLAN - FIRST FLOOR

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

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REVISION 1 - CITY RESPONSE	05 / 17 / 2024
CITY & BRAND RESPONSE	06 / 14 / 2024

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MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Home 2 Suites By Hilton

Village at Discovery Park Lot 2
Lee's Summit, MO

AHJ APPROVAL STAMP

SHEET TITLE

WATER & GAS PLAN - FIRST FLOOR

SHEET NUMBER

PW101

WATER & GAS PLAN SYMBOL LEGEND

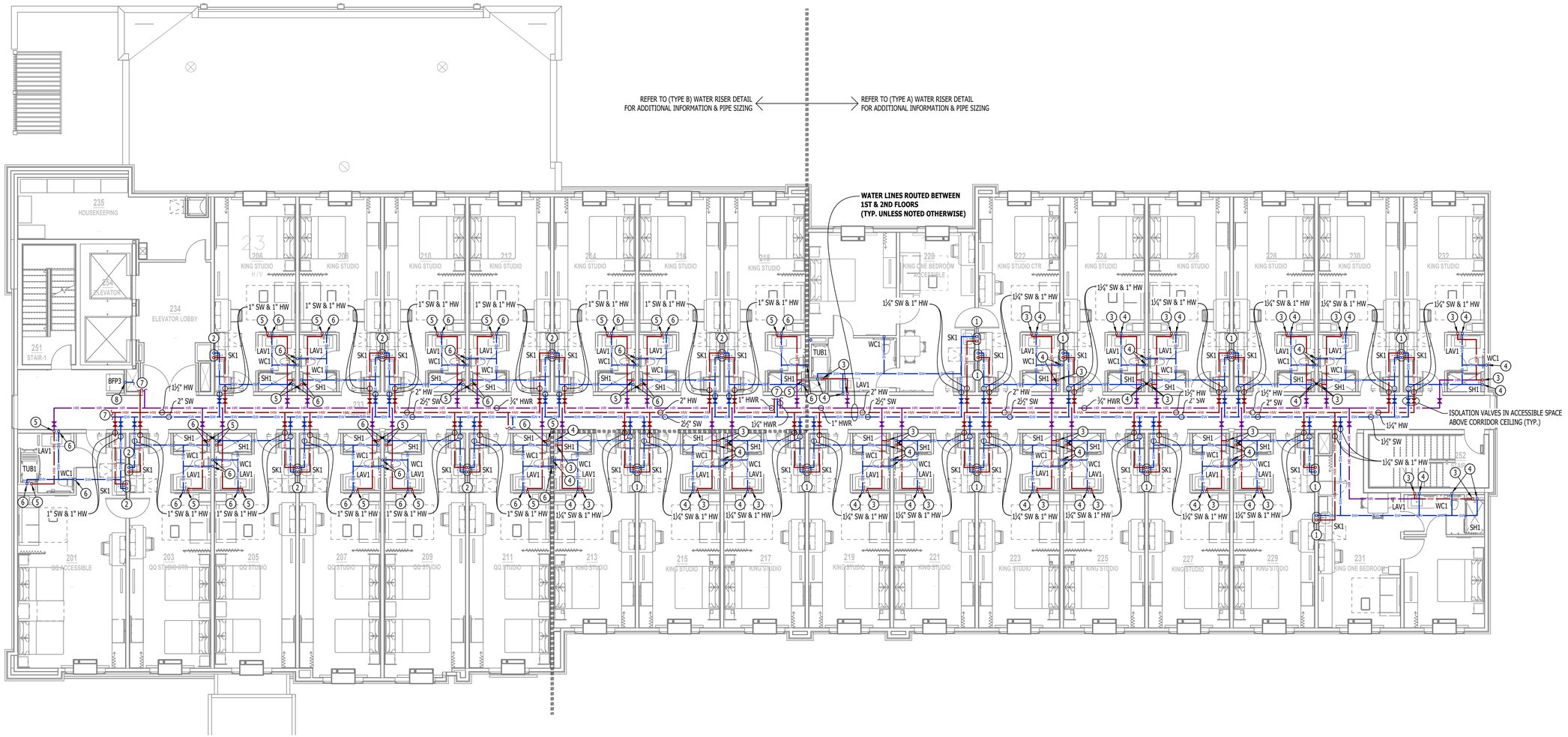
- COLD SOFT WATER LINE
- HOT WATER LINE
- HOT WATER RECIRCULATION LINE
- PIPING TURNED DOWN / TURNED UP

WATER & GAS PLAN GENERAL NOTES:

1. SEE SHEET P501 FOR ADDITIONAL PLUMBING NOTES, DETAILS, & SCHEDULES.

WATER & GAS PLAN KEY NOTES:

1. COLD WATER & HOT WATER DOWN TO SERVE FIXTURE ON FIRST FLOOR & UP TO SERVE FIXTURES ON SECOND THRU FOURTH FLOORS; SEE PW103 FOR CONTINUATION.
2. COLD WATER & HOT WATER UP TO SERVE FIXTURES ON SECOND THRU FOURTH FLOORS. SEE PW103 FOR CONTINUATION.
3. HOT WATER DOWN FROM ABOVE; SERVES FIXTURES ON FIRST THRU FOURTHS FLOORS
4. COLD WATER DOWN TO SERVE FIXTURE ON FIRST FLOOR AND UP TO SERVE FIXTURES ON SECOND THRU FOURTH FLOORS.
5. HOT WATER DOWN FROM ABOVE; SERVES FIXTURES ON SECOND THRU FOURTHS FLOORS
6. COLD WATER UP TO SERVE FIXTURES ON SECOND THRU FOURTH FLOORS.
7. SEE SHEET PW101 FOR CONTINUATION.
8. CW CONTINUES UP TO THIRD & FOURTH FLOORS TO SERVE ICE MAKERS ON BOTH LEVELS.



WATER & GAS PLAN - SECOND FLOOR

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

STATE OF MISSOURI
JAMES P. WATSON
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PROFESSIONAL ENGINEER

James Watson, P.E. April 17, 2024
PE-2015017071
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CITY SUBMISSION	04 / 17 / 2024

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Home 2 Suites By Hilton

Village at Discovery Park Lot 2
Lee's Summit, MO

AHJ APPROVAL STAMP

SHEET TITLE

WATER & GAS PLAN - SECOND FLOOR

SHEET NUMBER

PW102

WATER & GAS PLAN SYMBOL LEGEND

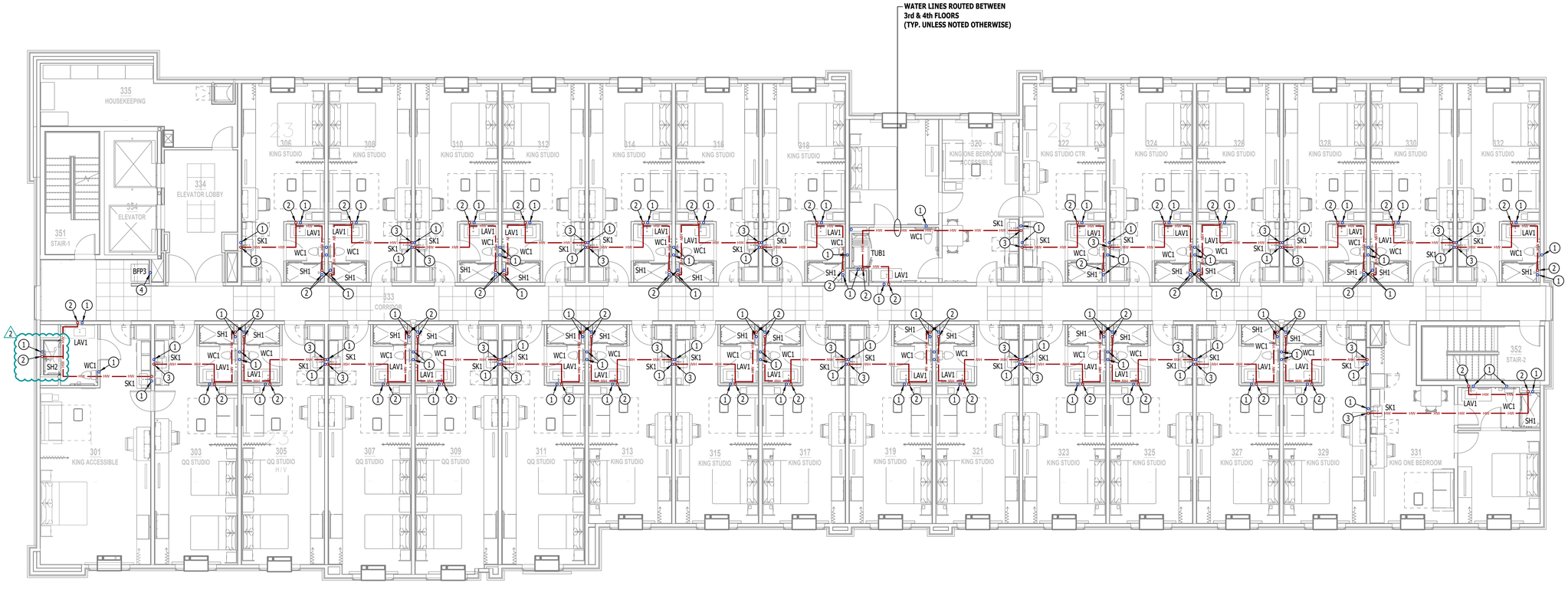
- COLD SOFT WATER LINE
- HOT WATER LINE
- HOT WATER RECIRCULATION LINE
- PIPING TURNED DOWN / TURNED UP

WATER & GAS PLAN GENERAL NOTES:

1. SEE SHEET P501 FOR ADDITIONAL PLUMBING NOTES, DETAILS, & SCHEDULES.

WATER & GAS PLAN KEY NOTES:

1. CW UP FROM BELOW.
2. HOT WATER TEES UP TO SERVE FIXTURE ON FOURTH FLOOR AND DOWN TO SERVE FIXTURES ON FLOORS BELOW AND CONNECTS IN TO HOT WATER RETURN ON SECOND FLOOR (SEE SHEET PW102)
3. HOT WATER UP FROM BELOW.
4. CW CONTINUES UP FROM FIRST FLOOR



WATER & GAS PLAN - THIRD FLOOR

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

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2 CITY & BRAND RESPONSE	06 / 14 / 2024

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

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Village at Discovery Park Lot 2
Lee's Summit, MO

AHU APPROVAL STAMP

SHEET TITLE

WATER & GAS PLAN - THIRD FLOOR

SHEET NUMBER

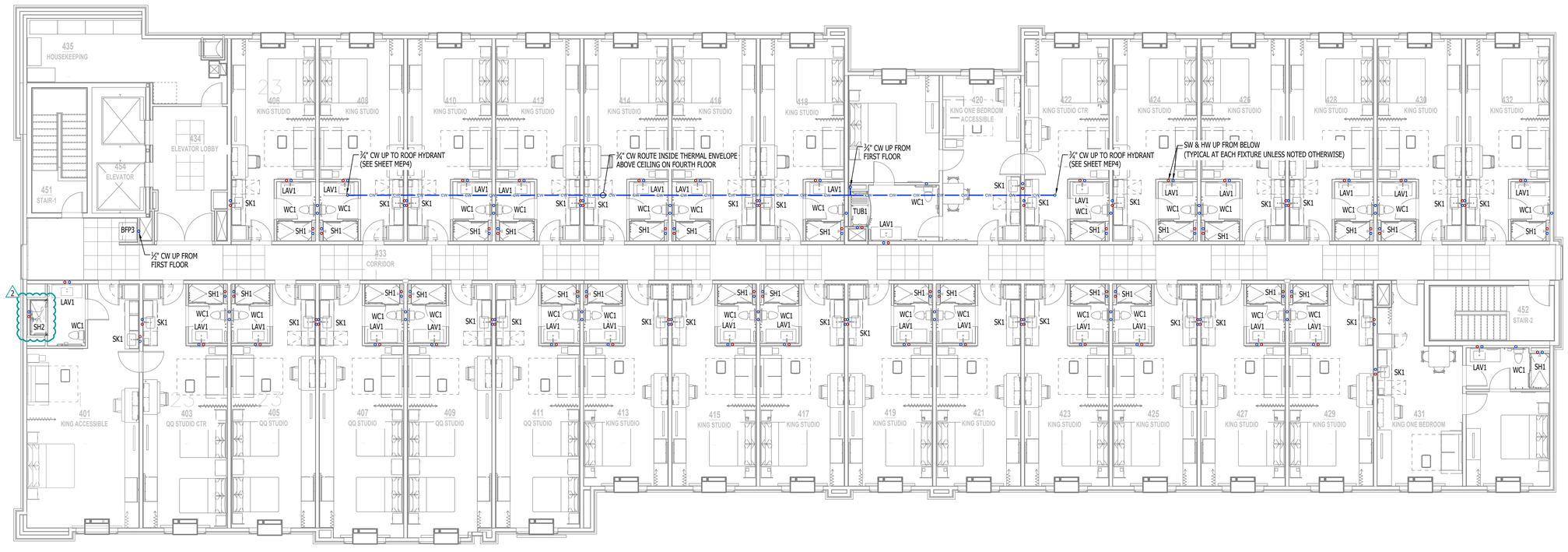
PW103

WATER & GAS PLAN SYMBOL LEGEND

- SW — COLD SOFT WATER LINE
- HW — HOT WATER LINE
- HR — HOT WATER RECIRCULATION LINE
- PIPING TURNED DOWN / TURNED UP

WATER & GAS PLAN GENERAL NOTES:

1. SEE SHEET PS01 FOR ADDITIONAL PLUMBING NOTES, DETAILS, & SCHEDULES.



WATER & GAS PLAN - FOURTH FLOOR

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

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MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

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SHEET TITLE

WATER & GAS PLAN - FOURTH FLOOR

SHEET NUMBER

PW104

PLUMBING SPECIFICATIONS

1. GENERAL

1.1. PLUMBING CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL ESCUTCHEONS, ⅛ TURN STOPS, P-TRAPS, AND SUPPLY LINES TO PROVIDE A COMPLETE SYSTEM AT EACH FIXTURE INDICATED ON PLANS UNLESS NOTED OTHERWISE.

1.2. ALL PLUMBING SYSTEMS SHALL BE INSTALLED LEVEL, PLUMB, AND PARALLEL/PERPENDICULAR TO BUILDING ORIENTATION WHERE POSSIBLE.

1.3. COORDINATE ALL PIPING INSTALLATIONS WITH STRUCTURAL GRADE BEAMS, FOOTINGS, COLUMN PIERS, ETC. SLEEVE PIPING THRU STRUCTURAL ELEMENTS AS NECESSARY, VERIFY WITH STRUCTURAL ENGINEER.

1.4. VERIFY ALL UTILITY CONNECTION POINTS WITH PROPOSED PLUMBING LAYOUTS PRIOR TO BEGINNING WORK.

1.5. CLEAN ALL PLUMBING FIXTURES AND CHANGE FAUCET AERATORS AND SINK STRAINERS AT PROJECT COMPLETION PRIOR TO TURNING OVER TO OWNERSHIP.

2. EQUIPMENT / FIXTURES

2.1. ALL EQUIPMENT AND/OR FIXTURES MUST MEET OR EXCEED THE PERFORMANCE, FUNCTIONAL INTENT, AND AESTHETICS AS MODELS SPECIFIED ON PLANS. WHERE SPECIFIC MANUFACTURERS AND/OR MODELS ARE INDICATED ON PLANS OR WITHIN SCHEDULES, CONTRACTOR TO PROVIDE MODEL INDICATED OR APPROVED EQUAL. VERIFY SUBSTITUTION APPROVAL PRIOR TO PURCHASE OR INSTALLATION OF EQUIPMENT.

2.2. CONTRACTOR TO SUPPLY SUBMITTALS FOR ALL EQUIPMENT FOR REVIEW BY ARCHITECT AND ENGINEER. FORMAL APPROVAL SHALL BE RECEIVED BY CONTRACTOR PRIOR TO EQUIPMENT PURCHASE.

2.3. CONTRACTOR TO SHARE APPROVED EQUIPMENT SUBMITTALS WITH ANY PERTINENT ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTORS WITHIN TWO WEEKS OF RECEIVING APPROVED SUBMITTALS FROM ARCHITECT/ENGINEER.

3. SANITARY

3.1. BELOW AND ABOVE GRADE WASTE AND VENT PIPING IN BUILDING TO BE SOLID CORE SCHEDULE 40 PVC LISTED FOR DWV APPLICATIONS.

3.2. NO WASTE OR VENT PIPING INSTALLED BELOW GRADE SHALL BE SMALLER THAN 2".

3.3. MINIMUM SLOPES FOR WASTE PIPING (UNLESS NOTED OTHERWISE ON PLANS):

3.3.1. 2½" OR LESS DIAMETER: ¼" PER FOOT

3.3.2. 3" TO 6" DIAMETER: ⅛" PER FOOT

3.3.3. 8" OR LARGER DIAMETER: 1/16" PER FOOT

3.4. ACCESSIBLE FULL PIPE SIZE CLEANOUTS SHALL BE PROVIDED & INSTALLED ON BUILDING SANITARY LINES AT LOCATIONS SHOWN ON PLANS, AT INTERVALS OF NO MORE THAN 100', AT EVERY CHANGE IN DIRECTION GREATER THAN 45°, AND AT THE BASE OF EACH WASTE STACK.

3.5. WASTE AND VENT PIPING IN PLENUMS SHALL BE CAST IRON, PLENUM-RATED CPVC, OR PVC WITH AN INSULATION WRAP LISTED FOR USE AS SUCH AN ASSEMBLY.

3.6. ALL VENT PIPE TERMINATIONS SHALL BE LOCATED EITHER 10' HORIZONTALLY OR 3' ABOVE MECHANICAL AIR INTAKE LOCATIONS. TERMINATIONS SHALL NOT BE INSTALLED UNDER ANY OPERABLE BUILDING OPENING OR OPERABLE ADJACENT BUILDING OPENING. CONTRACTOR TO OFFSET VENT PIPING AS NECESSARY TO MEET THESE REQUIREMENTS.

4. DOMESTIC WATER

4.1. ALL DOMESTIC WATER PIPING TO BE EITHER COPPER OR PEX, SHALL CONFORM TO NSF 61 AND BE LISTED FOR USE IN POTABLE WATER SYSTEMS.

4.1.1. WHERE PEX PIPING IS USED, IT SHALL BE INCREASED ONE PIPE SIZE FROM WHAT IS INDICATED ON PLANS FOR ALL PORTIONS OF DISTRIBUTION SYSTEM.

4.1.2. PEX-A MAY BE INSTALLED AT SIZES INDICATED ON PLANS ONLY IF AN ENGINEERED PLAN IS SUBMITTED SHOWING ACCEPTABLE PRESSURE DROPS AND FLUID VELOCITIES, APPROVAL MUST BE GRANTED PRIOR TO PURCHASE AND INSTALLATION.

4.1.3. COPPER WATER PIPING BELOW GRADE SHALL BE TYPE "K". BELOW GRADE JOINTS SHALL BE SILVER SOLDERED. THERE SHALL BE NO JOINTS IN WATER PIPING LOCATED BENEATH BUILDING SLAB.

4.1.4. COPPER WATER PIPING ABOVE GRADE SHALL BE TYPE "L".

4.2. PROVIDE WATER HAMMER ARRESTORS AT ALL QUICK-CLOSE VALVES. FIXTURES REQUIRING WATER HAMMER ARRESTORS INCLUDE BUT ARE NOT LIMITED TO FLUSH VALVES, SENSOR FAUCETS, AND WASHING MACHINE BOXES. AIR CHAMBERS SHALL NOT BE PERMITTED.

4.3. ALL DOMESTIC WATER PIPING SHALL BE ROUTED WITHIN BUILDING THERMAL ENVELOPE AND WITHIN WALL CAVITIES, ABOVE FINISHED CEILINGS, OR BELOW SLAB TO REMAIN CONCEALED UNLESS OTHERWISE NOTED. NOTIFY ENGINEER OF ANY NECESSARY ADJUSTMENTS THAT REQUIRE PIPING TO BE EXPOSED.

4.4. DOMESTIC WATER PIPING INSULATION

4.4.1. ALL HW PIPING, WHETHER COPPER OR PEX, SHALL BE INSULATED WITH PLENUM RATED CLOSED CELL ELASTOMERIC INSULATION.

4.4.1.1. FOR PIPING LESS THAN 1½", INSULATION THICKNESS TO BE 1".

4.4.1.2. FOR PIPING 1½" OR GREATER, INSULATION THICKNESS SHALL BE 1½".

4.4.2. CW COPPER PIPING TO INSULATED WITH ½" PLENUM RATED CLOSED CELL ELASTOMERIC INSULATION. CW PEX NEED NOT BE INSULATED UNLESS NOTED OTHERWISE ON PLANS.

5. GAS PIPING

5.1. GAS PIPING SHALL BE INSTALLED LEVEL, PLUMB, AND PARALLEL OR PERPENDICULAR TO BUILDING ORIENTATION WHERE POSSIBLE.

5.2. QUARTER-TURN FULL-PORT SHUTOFF VALVES SHALL BE INCLUDED AT EACH APPLIANCE CONNECTION, AS WELL AS AN IN-LINE REGULATOR FROM DELIVERY PRESSURE TO APPLIANCE OPERATING PRESSURE IF REQUIRED. INCLUDE SEDIMENT TRAPS PER IFGC REQUIREMENTS.

5.1. NATURAL GAS AND LIQUID PROPANE (LP) PIPING TO SHALL BE SCHEDULE 40 BLACK STEEL.

5.2. PIPE JOINTS SHALL BE THREADED WITH CLASS 150 FITTINGS, OR WELDED. NOTIFY OWNER/GC OF ANY NECESSARY HOT-WORK ASSOCIATED WITH WELDED CONNECTIONS.

5.3. WHERE PIPING IS EXPOSED ON EXTERIOR FACE OF BUILDING, PAINT TO MATCH BUILDING. PAINT YELLOW IN ALL OTHER LOCATIONS.

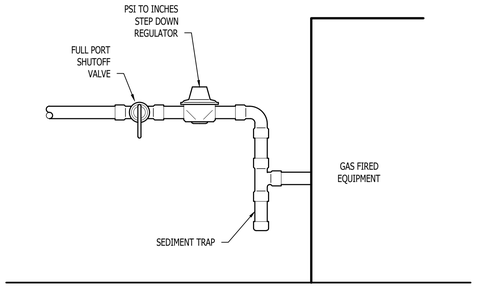
5.4. ON ROOFTOPS, INSTALL GAS PIPE WITH "ROOFTOP BLOX" PER MANUFACTURER'S INSTRUCTION.

6. STORM DRAIN PIPING

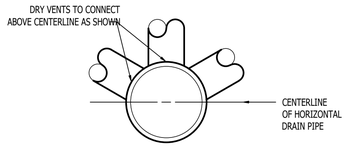
6.1. ABOVE AND BELOW GRADE STORM PIPING SHALL BE SOLID CORE SCHEDULE 40 PVC.

6.2. ALL PRIMARY & SECONDARY STORM DRAIN PIPING & FITTINGS SHALL BE INSULATED WITH ½" FIBERGLASS INSULATION WITH ASJ JACKET.

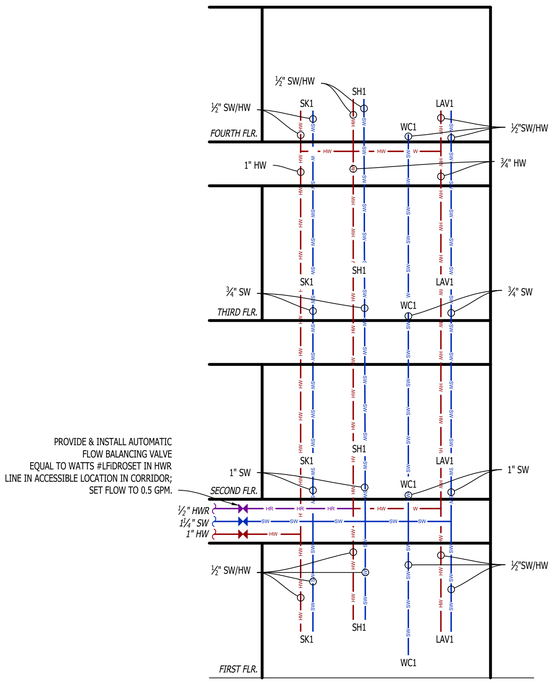
6.3. STORM DRAIN PIPING IN PLENUMS SHALL BE CAST IRON, PLENUM-RATED CPVC, OR PVC WITH AN INSULATION WRAP LISTED FOR USE AS SUCH AN ASSEMBLY.



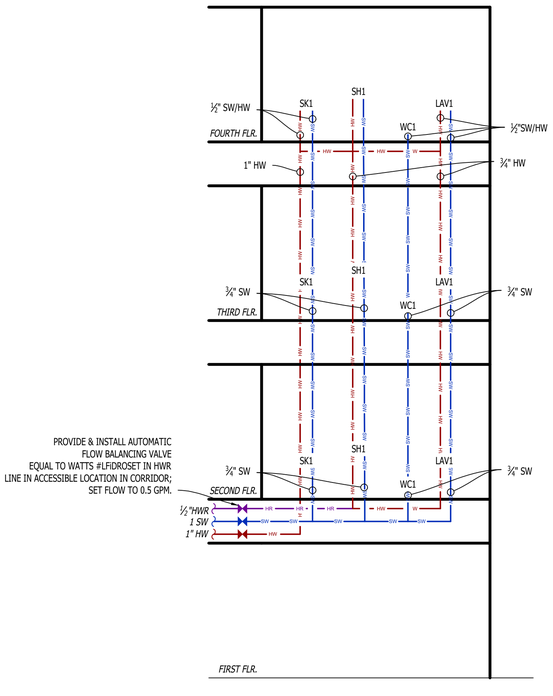
GAS EQUIPMENT SUPPLY DETAIL W/ REGULATOR



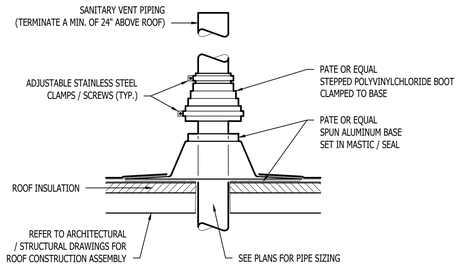
DRY VENT DETAIL



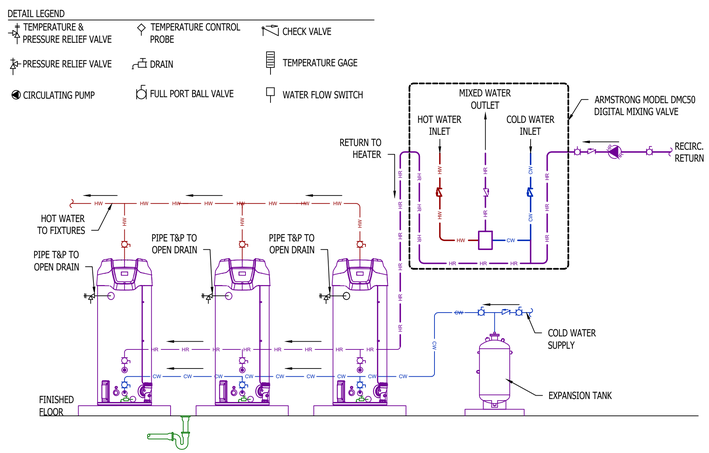
TYPICAL GUEST ROOM WATER RISER DETAIL (TYPE A)



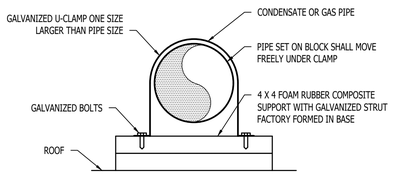
TYPICAL GUEST ROOM WATER RISER DETAIL (TYPE B)



SANITARY VENT THRU ROOF DETAIL



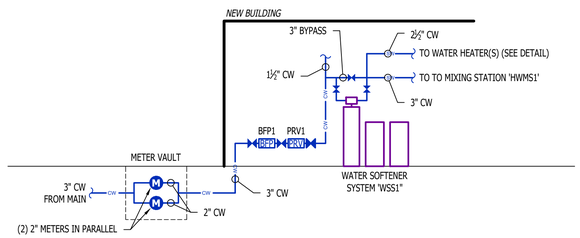
MULTIPLE WATER HEATER PIPING DETAIL WITH RECIRCULATION AND DIGITAL MIXING VALVE



STEEL PIPE NOMINAL SIZE OF PIPE (IN.)	SPACING OF SUPPORTS (FT.)
½"	6
¾" OR 1"	8
1 ¼" OR LARGER (HORIZONTAL)	10

NOTE:
INSTALL SUPPORTS ACCORDING TO NATIONAL FUEL GAS CODE 2015 EDITION

PIPE SUPPORT DETAIL



WATER RISER DETAIL

STATE OF MISSOURI
JAMES P. WATSON
NUMBER PE-2015017071
PROFESSIONAL ENGINEER

James Watson, P.E. April 17, 2024
PE-2015017071
MO Certificate of Authority # 2018029680

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J2 PROJECT No: J21005

J2 DESIGN: ACW

ISSUE TITLE	DATE
CITY SUBMISSION	04 / 17 / 2024

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Home 2 Suites By Hilton

Village at Discovery Park Lot 2
Lee's Summit, MO

AHJ APPROVAL STAMP

SHEET TITLE

PLUMBING DETAILS

SHEET NUMBER

P501

PLUMBING CONNECTION SIZING SCHEDULE

FIXTURE		SANITARY PIPING		SUPPLY PIPING	
TYPE	TYPICAL ABBREVIATION	WASTE CONNECTION	VENT CONNECTION	COLD WATER CONNECTION	HOT WATER CONNECTION
DRINKING FOUNTAIN	DF	1-1/2"	1-1/4"	1/2"	-
FLOOR DRAIN	FD	3"	2"	-	-
HAND / HAIR SINK	HS / SK	2"	1-1/4"	1/2"	1/2"
HOSE BIBB	HB	-	-	3/4"	-
LAVATORY	LAV	1-1/2"	1-1/4"	1/2"	1/2"
MOP SINK	MS	3"	1-1/2"	1/2"	1/2"
ICE MAKER OUTLET BOX	REF	-	-	1/2"	-
SHOWER	SH	3"	1-1/2"	1/2"	1/2"
URINAL	UR	2"	1-1/4"	3/4"	-
WATER CLOSET (FLUSH TANK)	WC	3"	2"	1/2"	-
WATER CLOSET (FLUSH VALVE)	WC	3"	2"	1"	-

NOTES:
1. SIZES SHOWN ABOVE ARE TYPICAL UNLESS NOTED OTHERWISE ON PLANS

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER (OR EQUAL)	MODEL (OR EQUAL)	NOTES
3BS1	THREE BASIN SINK	-	-	PROVIDED WITH FOOD SERVICE EQUIPMENT PACKAGE; PLUMBING CONTRACTOR TO INSTALL
BFP1	BACKFLOW PREVENTER	WILKINS	375	RPZ - 3"
BFP2	BACKFLOW PREVENTER	ZURN	950XLT	2" DOUBLE-CHECK FOR IRRIGATION
BFP3	BACKFLOW PREVENTER	WATTS	LF9D	ICE MACHINE DUAL CHECK
DF1	DRINKING FOUNTAIN (HIGH/LOW)	ELKAY	EZSTL8LC	
DN1	DOWNSPOUT NOZZLE	ZURN	Z199	
EWS1	EMERGENCY EYEWASH STATION	GUARDIAN	G1814	WITH G6020 THERMOSTATIC MIXING VALVE
EXP1	EXPANSION TANK	WATTS	DETA-100	
FCO1	FLOOR CLEANOUT	ZURN	1400	
FD1	FLOOR DRAIN	ZURN	Z415-BZ	WITH Z1072 TRAP SEAL
FPHB1	FROST PROOF HOSE BIB	WOODFORD	MODEL 67	
FS1	FLOOR SINK	ZURN	FD2370	WITH DOME STRAINER & HALF-GRATE
GT1	GREASE TRAP	SCHIER	GB-75	
HB1	HOSE BIBB - INTERIOR	WOODFORD	24P - 3/4"	WITH LOCKING KEY
HD1	HUB DRAIN	-	-	WITH Z1072 TRAP SEAL
HS1	HAND SINK	REGENCY	600HS17	
HWMS1	HOT WATER MIXING STATION	WATTS	INTELLISTATION LFIS200	2.5" WITH 'RP1' RECIRCULATION PUMP
LAV1	LAVATORY (UNDERMOUNT W/ MANUAL FAUCET)	AMERICAN STANDARD	0614.000	WITH ZURN Z831R1-XL FAUCET, 1/4 TURN STOPS, AND BRAIDED STAINLESS STEEL SUPPLIES 2
LAV2	LAVATORY (WALL HUNG W/BATTERY SENSOR FAUCET)	AMERICAN STANDARD	0355.012	WITH ZURN Z6915-XL-L-TMV-1 FAUCET, 1/4 TURN STOPS, BRAIDED STAINLESS STEEL SUPPLIES, AND TRUBRO LAV GUARD 2
LT1	LAUNDRY TUB	SWAN	MF-2F	24x46 DOUBLE BOWL; WITH ZURN Z812J4-XL FAUCET
MS1	MOP SINK	FIAT	MSB2424	WITH ZURN Z843M1 FAUCET WITH WALL HOOK
PRV1	PRESSURE REDUCING VALVE	WATTS	LFF127W	
RH1	ROOF HYDRANT	WOODFORD	SRH-MS	
RP1	HOT WATER RECIRCULATION PUMP	GRUNDFOS	MAGNA 1	~16 GPM @ 20' TDH
SH1	GUESTROOM SHOWER - 60"x 34"	STERLING	72331100-0	VIKRELL SHOWER PAN WITH SHOWER DRAIN, MOEN POSI-TEMP MIXING VALVE & TRIM KIT, WITH COMBINATION SHOWERED/HAND SHOWER WITH SINGLE SOURCE ARM, MAX FLOW 2.5GPM; SLIDE BAR KIT NOT PERMITTED
2 SH2	ADA ROLL-IN SHOWER	STERLING	OC-S-63	63"x 39" ROLL-IN SHOWER WITH SEAT, GRAB BARS, MOEN POSI-TEMP MIXING VALVE & TRIM KIT; WITH ADA HAND-HELD SHOWER ASSEMBLY WITH SLIDE BAR (COORDINATE ROUGH-IN OPENING)
SK1	GUESTROOM SINK - 16.5"x 16.5"x 5"	ELKAY	ECTRUAD151550	WITH TWO HANDLED ZURN Z871C4-XL FAUCET
SK2	DOUBLE COMPARTMENT SINK (33x22x7)	ELKAY	CR3322	WITH TWO HANDLED ZURN Z871C4-XL FAUCET
SK3	SINGLE COMPARTMENT SINK - FOOD PREP AREA	-	-	PROVIDED WITH FOOD SERVICE EQUIPMENT PACKAGE; PLUMBING CONTRACTOR TO INSTALL
SP1	SUMP PUMP	ZOELLER	153-0002	120V, 1/2 HP
TD1	TRENCH DRAIN	JAY R SMITH	SQ-TD-0885	FABRICATED 11-GAUGE 304 STAINLESS STEEL LINT TROUGH WITH LOOSE SET SS LIGHT DUTY BAR GRATE WITH 1" SPACING BETWEEN BARS; REMOVABLE FILTER SCREENS WITH 3/8" PERFORATED HOLES & 4" BOTTOM OUTLET WITH SS MESH COVER DOME BOTTOM STRAINER
TUB1	ADA TRANSFER TUB - 60"x 30"	STERLING	71240XXX-0	VIKRELL TUB/SHOWER SURROUND WITH SEAT, GRAB BARS, MOEN POSI-TEMP MIXING VALVE & TRIM KIT, HANDHELD-SHOWER ASSEMBLY
WB1	WASHER BOX	OATEY	38529	WASHER BOX W/ 1/4 TURN VALVES
WC1	WATER CLOSET - TANK	AMERICAN STANDARD	215AA.004	WITH CHURCH 7200SLEC SEAT AND COVER, STAINLESS BRAIDED SUPPLY, AND 1/4 TURN SHUT-OFF.
WC2	WATER CLOSET - ADA HEIGHT - BATTERY AUTO FLUSH VALVE	AMERICAN STANDARD	3043.001	WITH ZURN ZER6000AV-IS-WS1-CCP BATTERY FLUSH VALVE (1.6 GPM/FLUSH) AND CHURCH 9500SSCT SELF SUSTAINING SEAT
WCO1	WALL CLEAN OUT	-	-	
WH1	WATER HEATER - GAS	AO SMITH	BTH-199	199kBTU, 100 GALLON, WITH 'EXP1'
WSS1	WATER SOFTENER SYSTEM	CULLIGAN	CTM-210	TRIPLEX, 3", 155 GPM CONTINOUS, 217 GPM PEAK
YCO1	YARD CLEAN OUT	ZURN	Z1400	
YH1	YARD HYDRANT	WOODFORD	Y34	

NOTES:
1. VERIFY NECESSARY FIXTURES MEET ADA REQUIREMENTS WITH ARCHITECT PRIOR TO INSTALLATION.
2. VERIFY FIXTURE FINISHES WITH OWNER / ARCHITECT.
3. SUBMIT ALL PLUMBING FIXTURES FOR BRAND APPROVAL PRIOR TO PURCHASE & INSTALLATION

STATE OF MISSOURI
JAMES P. WATSON
NUMBER PE-2015017071
PROFESSIONAL ENGINEER

James Watson, P.E. June 14, 2024
PE-2015017071
MO Certificate of Authority # 2018029680

J-SQUARED ENGINEERING
2400 Bluff Creek Drive, Suite 101
Columbia, Missouri 65201
573.234.4492
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J2 PROJECT No: J21005
J2 DESIGN: ACW

ISSUE TITLE	DATE
CITY SUBMISSION	04 / 17 / 2024
REVISION 1 - CITY RESPONSE	05 / 17 / 2024
2 CITY & BRAND RESPONSE	06 / 14 / 2024

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Home 2 Suites By Hilton

Village at Discovery Park Lot 2
Lee's Summit, MO

AHJ APPROVAL STAMP

SHEET TITLE

PLUMBING SCHEDULES

SHEET NUMBER

P601