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REFER TO FDP PLANS CURRENTLY UNDER REVIEW



THIS IMAGE IS INTENDED ONLY TO PROVIDE QUICK REFERENCE. WHERE DISCREPANCIES BETWEEN THIS IMAGE AND THE PLANS EXIST, THE PLANS GOVERN.

PROJECT TEAM

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PROJECT INFORMATION

PROJECT ADDRESS:
NW SLOAN & NE SYCAMORE STREET, 64086
CITY: LEE'S SUMMIT
COUNTY: JACKSON
STATE: MISSOURI

LEGAL DESCRIPTION:
LOT 10A, DOUGLAS STATION COMMERCIAL PARK - LOTS 10A & 10B, A SUBDIVISION IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, ACCORDING TO THE RECORDED PLAT THEREOF.
LOT 10B, DOUGLAS STATION COMMERCIAL PARK - LOTS 10A & 10B, A SUBDIVISION IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, ACCORDING TO THE RECORDED PLAT THEREOF.
TRACT A, DOUGLAS STATION COMMERCIAL PARK - LOTS 1 THROUGH 10 & TRACT A, A SUBDIVISION IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI.

ZONING:
EXISTING ZONING DESIGNATION: CP-2

SITE DATA

TOTAL LAND AREA	6.44 ACRES
TOTAL BUILDING FOOTPRINT	61,015 SF
PUBLIC R.O.W. AREA	4,385 SF
NET SITE AREA	175,560 SF
TOTAL BUILDING AREA	61,015 SF
TOTAL RESIDENTIAL UNIT COUNT	154 UNITS
DENSITY (UNITS/ACRE)	20.53/ACRE

VEHICLE PARKING

PROVIDED	288 STANDARD
	10 ADA ACCESSIBLE
	42 GARAGE
260 TOTAL SPACES	
REQUIRED	87 SPACES
1.5 PER TWO BEDROOM	96 SPACES
1 PER ONE BEDROOM	77 SPACES
0.5 PER UNIT FOR GUEST	77 SPACES
TOTAL PARKING SPACES	260 SPACES

VICINITY MAP



UNIT MIX - BLDGS 1 & 2 (BUILDING TYPE C)

	AREA PER UNIT	TOTAL	% OF TOTAL	TOTAL AREA
1 BED / 1 BATH				
UNIT A2	727 SF	24	67%	17455 SF
TOTAL		24	67%	17455 SF
2 BED / 2 BATH				
UNIT B1	1016 SF	12	33%	12192 SF
TOTAL		12	33%	12192 SF
BUILDING TOTAL		36	100%	29646 SF
PROJECT TOTAL		72		59292 SF

UNIT MIX - BLDGS 3 & 4 (BUILDING TYPE A)

	AREA PER UNIT	TOTAL	% OF TOTAL	TOTAL AREA
1 BED / 1 BATH				
UNIT A1	727 SF	11	46%	8000 SF
UNIT A1 TYPE A	727 SF	1	4%	727 SF
TOTAL		12	50%	8727 SF
2 BED / 2 BATH				
UNIT B1	1016 SF	11	46%	11176 SF
UNIT B1 TYPE A	1016 SF	1	4%	1016 SF
TOTAL		12	50%	12191 SF
BUILDING TOTAL		24	100%	20919 SF
PROJECT TOTAL		48		41838 SF

UNIT MIX - BLDG 5 (BUILDING TYPE C)

	AREA PER UNIT	TOTAL	% OF TOTAL	TOTAL AREA
1 BED / 1 BATH				
UNIT A2	727 SF	24	71%	17455 SF
TOTAL		24	71%	17455 SF
2 BED / 2 BATH				
UNIT B1	1016 SF	10	29%	12192 SF
TOTAL		10	29%	12192 SF
BUILDING TOTAL		34	100%	29646 SF

A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
• 02/23/24 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS

JOB NO. 740623
DRAWN BY SW EM KN
CD SET/PERMIT

SHEET NAME
COVER SHEET

SHEET NO.
A0.00



ARCHITECTURE
LANDSCAPE
ARCHITECTURE

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9415 NALL AVE., #300
PRAIRIE VILLAGE,
KANSAS, 66207



GENERAL INFORMATION

PROJECT DESCRIPTION

- MULTIFAMILY DEVELOPMENT WITH TWO BUILDING TYPES (ONE HAS INTEGRATED CLUBHOUSE) AND DETACHED GARAGES.

APPLICABLE CODES

JURISDICTION: LEE'S SUMMIT, MISSOURI

- 2018 INTERNATIONAL BUILDING CODE (IBC)
- 2018 INTERNATIONAL FIRE CODE (IFC)
- 2018 INTERNATIONAL FUEL GAS CODE (IFGC)
- 2018 INTERNATIONAL MECHANICAL CODE (IMC)
- 2018 INTERNATIONAL PLUMBING CODE (IPC)
- 2017 NATIONAL ELECTRICAL CODE (NEC)

FIRE-RESISTANCE RATING REQUIREMENTS

TYPE V-A CONSTRUCTION (TABLE 601)

PRIMARY STRUCTURAL FRAME:	1 HOUR
BEARING WALLS-EXTERIOR:	1 HOUR
BEARING WALLS-INTERIOR:	1 HOUR
NON-BEARING WALLS-EXTERIOR:	TABLE 602 - SEE CODE PLANS
NON-BEARING WALLS-INTERIOR:	0 HOUR
FLOOR CONSTRUCTION:	1 HOUR
ROOF CONSTRUCTION:	1 HOUR

NOTES

- SEE A0.30 FOR TYPICAL FIRE RESISTIVE ASSEMBLY INFORMATION.
- BALCONIES ARE NOT REQUIRED TO HAVE A FIRE-RESISTANCE RATING. SPRINKLER PROTECTION SHALL BE PROVIDED FOR EXTERIOR BALCONIES, DECKS, AND PATIOS PER SECTION 705.2.3.1, EXCEPTION 3 AND SECTION 903.3.1.2.1.
- FIRE-RETARDANT-TREATED WOOD FRAMING AND SHEATHING IS PERMITTED TO BE USED IN EXTERIOR WALL ASSEMBLIES OF TYPE III-A CONSTRUCTION PER SECTION 602.3.

DESIGN PROVISIONS

FIRE DEPARTMENT GENERAL NOTES

- PROVIDE FIRE FLOW TEST IN A METHOD APPROVED BY THE FIRE CODE OFFICIAL PER 2018 IFC SECTION 507.3 AND APPENDIX B.
- G.C. TO COORDINATE KNOX BOX QUANTITY AND LOCATIONS WITH THE AUTHORITY HAVE JURISDICTION.
- G.C. TO COORDINATE WITH FIRE CODE OFFICIAL TO DETERMINE IF EMERGENCY RESPONDER RADIO COVERAGE IS REQUIRED. PROVIDE STANDBY POWER AS REQUIRED. REFER TO IBC SECTIONS 7202.2.3 & 918, AND IFC SECTION 510.
- INSTALL SIGN ON THE DOOR TO RISER ROOM STATING "FIRE ALARM / SPRINKLER RISER".
- A SIGN SHALL BE PROVIDED AT EACH FLOOR LANDING IN AN INTERIOR STAIRWAY AND RAMP CONNECTING MORE THAN THREE (3) STORIES DESIGNATING THE FLOOR LEVEL, THE TERMINUS OF THE TOP AND BOTTOM OF THE INTERIOR EXIT STAIRWAY OR RAMP, AND THE IDENTIFICATION OF THE STAIR OR RAMP. THE SIGNAGE SHALL ALSO STATE THE STORY OF, AND THE DIRECTION TO, THE EXIT DISCHARGE AND THE AVAILABILITY OF ROOF ACCESS FROM THE INTERIOR EXIT STAIRWAY AND RAMP FOR THE FIRE DEPARTMENT. THE SIGN SHALL BE LOCATED FIVE (5) FEET ABOVE THE FLOOR LANDING IN A POSITION THAT IS READILY VISIBLE WHEN THE DOORS ARE IN THE OPEN AND CLOSED POSITION. IN ADDITION TO THE STAIRWAY IDENTIFICATION SIGN, A FLOOR-LEVEL SIGN IN RAISED CHARACTERS AND BRAILLE COMPLYING WITH ICC A117.1 SHALL BE LOCATED AT EACH FLOOR-LEVEL LANDING ADJACENT TO THE DOOR LEADING FROM THE INTERIOR EXIT STAIRWAY AND RAMP INTO THE CORRIDOR TO IDENTIFY THE FLOOR LEVEL.

ACCESSIBILITY COMPLIANCE

PERCENTAGE OF UNIT TYPES:

UNIT TYPE	REQUIRED	PROVIDED	CODE REFERENCE
TYPE A	4 UNITS (2% OF TOTAL)	4 UNITS	1107.6.2.2.1
TYPE B		46 UNITS (FIRST FLOOR UNITS)	1107.6.2.2.2
EXEMPT		104 UNITS (UPPER FLOOR UNITS)	

NOTES

THESE FACILITIES MUST BE DESIGNED TO COMPLY WITH ALL THE REQUIREMENTS OF THE AMERICANS WITH DISABILITY ACT, FAIR HOUSING AMENDMENTS ACT OF 1988 AS WELL AS ALL LOCAL AND STATE ACCESSIBILITY REGULATIONS. COMPLIANCE WITH ONE CODE DOES NOT NECESSARILY GUARANTEE COMPLIANCE WITH ALL ACCESSIBILITY CODES.

SOUND TRANSMISSION

DWELLING UNIT SEPARATION (SECTION 1206)

AIRBORNE SOUND (STC):	50
STRUCTURE-BORNE SOUND (IIC):	50

DRAWING RELEASE LOG
 • 03/23/24 100% CD Set
 • 03/22/24 50% CD Set
 • 04/19/24 90% CD Set

REVISIONS

1	9/27/24	CITY COMMENT RESPONSES
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JOB NO. **740623** DATE **04.19.24**
 DRAWN BY **Author**
 CD SET/PERMIT

SHEET NAME
PROJECT STANDARDS

SHEET NO.
A0.01

PROJECT GENERAL NOTES

- CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, REGULATIONS, CODES AND AMENDMENTS. NOTHING IN THE DRAWINGS OR SPECIFICATIONS SHALL BE CONSTRUED AS REQUIRING OR PERMITTING WORK CONTRARY TO THESE RULES, REGULATIONS, AND CODES.
- THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL.
- DO NOT SCALE DRAWINGS. REFER TO WRITTEN DIMENSIONS. IF DIMENSIONS APPEAR TO BE INSUFFICIENT OR CONTRADICTORY, THE CONTRACTOR SHALL REQUEST CLARIFICATION FROM THE ARCHITECT.
- THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS BY TAKING FIELD MEASUREMENTS. PROPER FIT AND ATTACHMENTS OF ALL SPECIFIED ITEMS AND WORK IS REQUIRED.
- THE CONTRACTOR SHALL THOROUGHLY REVIEW THE DRAWINGS AND SPECIFICATIONS AND IMMEDIATELY REPORT ANY DISCREPANCIES TO THE ARCHITECT. HOWEVER, WHERE A CONFLICT BETWEEN THE DRAWINGS AND SPECIFICATIONS OCCURS, WHICHEVER IS OF GREATER VALUE AND/OR QUANTITY WILL TAKE PRECEDENT. A FAILURE TO COOPERATE BY A SIMPLE NOTICE TO THE ARCHITECT SHALL RELIEVE THE ARCHITECT FROM RESPONSIBILITY FOR ALL CONSEQUENCES. CHANGES MADE FROM THE PLANS WITHOUT THE CONSENT OF THE ARCHITECT ARE UNAUTHORIZED AND SHALL RELIEVE THE ARCHITECT OF RESPONSIBILITY FOR ALL CONSEQUENCES ARISING OUT OF SUCH CHANGES.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. CONTRACTOR AND EACH SUBCONTRACTOR SHALL INSTALL ALL THEIR MATERIALS IN ACCORDANCE WITH MANUFACTURERS' INSTALLATION INSTRUCTIONS TO MEET PRODUCT WARRANTY REQUIREMENTS. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO PERFORM THE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- THE CONTRACTOR AND EACH SUBCONTRACTOR AFFIRMATIVELY REPRESENTS THAT THEY ARE SKILLED AND EXPERIENCED IN THE PERFORMANCE OF WORK AS REQUIRED BY THIS PROJECT AND IN THE USE AND INTERPRETATION OF DRAWINGS AND SPECIFICATIONS SUCH AS THOSE INCLUDED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR AGREES THAT IT SHALL BE CONCLUSIVELY PRESUMED THAT THE CONTRACTOR HAS EXERCISED HIS AFOREMENTIONED SKILL AND EXPERIENCE AND HAS FOUND THE DRAWINGS AND SPECIFICATIONS SUFFICIENT AND FREE FROM AMBIGUITIES, ERRORS, DISCREPANCIES, AND OMISSIONS FOR THE PURPOSE OF DETERMINING ITS CONTRACT FOR THE PERFORMANCE OF THE WORK IN CONFORMITY WITH THE DRAWINGS, SPECIFICATIONS, AND ALL OTHER CONTRACT DOCUMENTS.
- THE CONTRACTOR AND EACH SUBCONTRACTOR SHALL EXAMINE AND BECOME FAMILIAR WITH ALL CONTRACT DOCUMENTS IN THEIR ENTIRETY AND ARE RESPONSIBLE FOR ALL WORK PERTAINING TO THEIR TRADE REGARDLESS OF DRAWING OR SECTION OF SPECIFICATIONS IT IS WRITTEN OR DEPICTED IN. ALL COSTS SUBMITTED AND WORK PERFORMED SHALL BE BASED ON THOROUGH KNOWLEDGE OF ALL WORK AND MATERIALS REQUIRED FOR A COMPLETE AND FUNCTIONING SYSTEM TO FULFILL THE INTENT OF THE CONTRACT DOCUMENTS WHETHER FULLY DEFINED BY THE DRAWINGS AND SPECIFICATIONS OR NOT. ANY DISCREPANCY AND/OR UNCERTAINTY SHOULD BE VERIFIED WITH THE ARCHITECT.
- IN NO CASE SHALL ANY CONTRACTOR PROCEED WITH WORK IN UNCERTAINTY.
- IF THE CONTRACTOR OR THE OWNER SELECTS OR SUBSTITUTES ANY ASSEMBLY, SYSTEM, PRODUCT, MATERIAL, OR DESIGN FOR THE PROJECT WITHOUT OR AGAINST THE ARCHITECT'S APPROVAL, THE ARCHITECT SHALL HAVE NO RESPONSIBILITY FOR THAT DECISION BY THE CONTRACTOR OR OWNER OR FOR THE PERFORMANCE OF SUCH ITEMS, AND THE ARCHITECT SHALL NOT BE REQUIRED TO ISSUE ANY OPINION OR CERTIFICATE WITH RESPECT TO SUCH ITEMS.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR COORDINATION OF WORK BETWEEN ALL TRADES AND WILL IDENTIFY ALL BLOCKING, SURFACE PREPARATION AND SIMILAR ITEMS THAT ARE NECESSARILY PROVIDED BY ONE TRADE TO FACILITATE THE WORK OF ANY OTHER. ALL TRADES WILL BE REQUIRED TO REPORT ANY DEFICIENCIES ON THE PROJECT WHICH WOULD LEAD TO AN INCOMPLETE OR POOR-QUALITY FINISHED PRODUCT.
- EACH TRADE SHALL EXAMINE ALL SUBSURFACES AND WORK OF OTHERS THAT AFFECT THEIR INDIVIDUAL SCOPE OF WORK. REPORT IN WRITING, TO THE GENERAL CONTRACTOR, WITH A COPY TO THE ARCHITECT, ANY CONDITIONS, EXCEPT FOR UNFORESEEN EXISTING CONDITIONS, WHICH MAY PROVE DETRIMENTAL TO THE WORK. FAILURE TO OBSERVE THIS INJUNCTION WILL CONSTITUTE A WAIVER TO ANY SUBSEQUENT CLAIMS TO THE CONTRARY AND MAKE THIS CONTRACTOR RESPONSIBLE FOR ANY CORRECTION ARCHITECT MAY REQUIRE. COMMENCEMENT OF WORK WILL BE CONSTRUED AS ACCEPTANCE OF ALL SUBSURFACES.
- CONTRACT DOCUMENTS DO NOT ILLUSTRATE EVERY CONDITION; WORK NOT EXPRESSLY DETAILED SHALL BE CONSTRUCTED SIMILAR TO PARTS THAT ARE DETAILED. WHERE DISCREPANCIES OCCUR, THEY SHALL BE REPORTED TO THE ARCHITECT FOR RESOLUTION BEFORE PROCEEDING WITH WORK. WHENEVER THE CONTRACT DOCUMENTS REASONABLY IMPLY MATERIALS OR INSTALLATION AS NECESSARY TO PRODUCE THE INTENDED RESULTS, BUT DO NOT FULLY DETAIL OR SPECIFY SUCH MATERIALS, THE CONTRACTOR SHALL PROVIDE THE MATERIALS AND LABOR REQUIRED FOR INSTALLATION NONETHELESS.
- CONTRACT DOCUMENTS ARE INTENDED TO CONVEY DESIGN INTENT ONLY. PROVIDE PRODUCTS COMPLETE WITH ACCESSORIES, TRIM, FINISH FASTENERS, AND OTHER ITEMS NEEDED FOR A COMPLETE INSTALLATION AND INDICATED USE AND EFFECT.
- DESIGN INTENT INCLUDES CONCEALING ALL PIPES, CONDUITS, DUCT LINES, ETC. ABOVE FINISHED SOFFIT/CEILING OR WITHIN WALLS AND CHASES, U.N.O.
- THESE NOTES ARE NOT INTENDED TO LIMIT THE RESPONSIBILITIES OF THE CONTRACTOR AS DEFINED ELSEWHERE IN THE CONTRACT DOCUMENTS.
- DIMENSIONS NOTED AS "FIELD VERIFY" SHALL BE CHECKED AT THE SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCHITECT BEFORE INCORPORATING INTO THE WORK.
- PROVIDE ALL WORK INDICATED UNLESS SPECIFICALLY NOTED AS "NOT IN CONTRACT" (NIC), "FURNISHED BY OTHERS" (FBO) OR EXISTING.

LIFE SAFETY SYSTEMS

ACTIVE FIRE PROTECTION

SPRINKLER SYSTEM	YES - SEE INDIVIDUAL BUILDING ANALYSIS	
STANDPIPE	YES - CLASS 1	SECTION 905.3
FIRE ALARM	YES	SECTION 907.2.9
SINGLE AND MULTIPLE STATION SMOKE ALARMS IN R-2 OCCUPANCY		SECTION 907.2.10.2
EMERGENCY POWER		
EGRESS ILLUMINATION	90 MIN BATTERY BACKUP	SECTION 1008
EXIT SIGNS	90 MIN BATTERY BACKUP	SECTION 1013.1
FIRE ALARM SYSTEM	REQUIRED	SECTION 907.6.2
SMOKE ALARMS	REQUIRED	SECTION 907.2.10.6
PORTABLE FIRE EXTINGUISHERS	MAX 75' TRAVEL DISTANCE	SECTION 906

PASSIVE LIFE SAFETY

DWELLING UNIT SEPARATION	1 HOUR FIRE PARTITION & HORIZONTAL ASSEMBLY	SECTION 420.2
CORRIDORS		
R-2 - GREATER THAN 10 OCC.	1/2 HOUR FIRE PARTITION WITH 20 MIN DOORS	TABLE 1020.1, TABLE 716.1(2)
ALL OTHERS	0 HOUR	
SPRINKLER PUMP ROOM	1 HOUR FIRE BARRIER	SECTION 913.2.1, EXC. 1
FIREBLOCKING REQUIRED IN COMBUSTIBLE CONCEALED LOCATIONS		SECTION 718.2
DRAFTSTOPPING		
REQUIRED IN FLOOR ASSEMBLIES		SECTION 718.3
REQUIRED IN ATTICS, MAX AREA 3,000 SF OR 2 UNITS, WHICHEVER IS LESS		SECTION 718.4, 708.4.2

EGRESS REQUIREMENTS

EXIT WIDTH WIDTH FACTORS

STAIRWAYS	0.3" PER OCCUPANT	SECTION 1005.3.1
DOORS & OTHER COMPONENTS	0.2" PER OCCUPANT	SECTION 1005.3.2

MAXIMUM EXIT ACCESS TRAVEL DISTANCE (TABLE 1017.2)

- USE GROUP R 250 FEET (W/ NFPA13R SPRINKLER)
- USE GROUP A 200 FEET (W/ NONE OR NFPA 13R SPRINKLER)
- USE GROUP B 200 FEET (W/ NFPA 13R SPRINKLER)

MAXIMUM COMMON PATH OF TRAVEL DISTANCE (TABLE 1006.2.1)

- USE GROUP R-2 125 FEET (W/ NFPA 13R SPRINKLER)
- USE GROUP A 75 FEET (W/ NONE, NFPA 13 OR 13R SPRINKLER)

MAXIMUM DEAD END CORRIDOR LENGTH

- USE GROUP A 20 FEET
- USE GROUP R-2 20 FEET (W/ NFPA 13R SPRINKLER)

ENERGY CODE SUMMARY

INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT

TABLE R402.1.2 - CLIMATE ZONE 4 COMPONENT	PROVIDED
FENESTRATION (U-FACTOR)	0.32 (MAXIMUM)
GLAZED FENESTRATION (SHGC)	0.40 (MAXIMUM)
CEILING	R-49
WALLS - ABOVE GRADE (WOOD FRAMED)	R-20
WALLS - ABOVE GRADE, (MASS)	R-13
FLOORS	R-19
WALLS - BASEMENT	R-13
SLAB-ON-GRADE UNHEATED SLAB	R-10 FOR 24"

NOTES

R-VALUES LISTED ABOVE ARE MINIMUMS, AND U-FACTOR & SHGC ARE MAXIMUMS TO BE PROVIDED. REFER TO SPECIFICATION FOR ACTUAL PROVIDED.

DEFERRED SUBMITTALS

DEFERRED SUBMITTALS

- WOOD FLOOR AND ROOF TRUSSES
- FIRE SPRINKLER
- FIRE ALARM

SPECIAL INSPECTIONS

SPECIAL INSPECTIONS

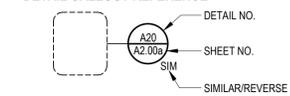
- REINFORCING STEEL PLACEMENT
- REINFORCING STEEL WELDING
- CAST IN PLACE ANCHORS
- POST INSTALLED ANCHORS
- DESIGN MIX VERIFICATION
- CONCRETE SAMPLING AND TESTING
- CONCRETE PLACEMENT
- CONCRETE CURING
- FORMWORK SHAPE, LOCATION AND DIMENSIONS

ABBREVIATIONS

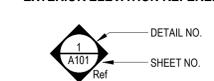
1R/1SH ONE ROD, ONE SHELF	FIXT FIXTURE	R RADIUS
2R/2SH TWO ROD, TWO SHELVES	FLASH FLASHING	RD ROUND
A/C AIR CONDITIONER / CONDITIONING	FLR FLOOR	RD ROOF DRAIN
ABV ABOVE	FLRG FLOORING	RE REFERENCE
ACT ACOUSTICAL CEILING TILE	FLUOR FLUORESCENT	REC RECESSED
AFF ABOVE FINISH FLOOR	FRZR FREEZER	REF REFRIGERATOR
AHU AUTHORITY HAVING JURISDICTION	FT FOOT/FEET	REINF REINFORCE/ED-ING
AHU AIR HANDLING UNIT	FTG FOOTING	REQD REQUIRE / REQUIRED
ALT ALTERNATE	FURN FURNITURE	RH ROBE HOOK
ALUM ALUMINIUM	FUT FUTURE	RM ROOM
B/ BOTTOM OF	FV FIELD VERIFY	RO ROUGH OPENING
BD BOARD	G.S.F. GROSS SQUARE FOOTAGE	RUBR RUBBER
BLDG BUILDING	GAL GALLON/GALLONS	S.M. SHEET METAL
BLK BLOCK	GALV GALVANIZED	SCHED SCHEDULE
BLKG BLKG	GB GRAB BAR	SD SMOKE DETECTOR
BM BEAM	GC GENERAL CONTRACTOR	SECT SECTION
BOT BOTTOM	GEN GENERAL	SF STOREFRONT
BRG BEARING	GFI GROUND FAULT INTERRUPTER	SF SQUARE FOOT/FEET
BSMT BASEMENT	GL GLASS / GLAZING	SH SINGLE HUNG
BTWN BETWEEN	GR GRADE	SHLVS SHELVES
CAB CABINET	GYP BD GYPSUM BOARD	SHTG SHEATHING
CANT CANTILEVER	HDR HEADER	SHWR SHOWER
CF CUBIC FEET	HDW HARDWARE	SIM SIMILAR
CFM CUBIC FEET PER MINUTE	HDWD HARD WOOD	SPEC SPECIFICATIONS
CHAM CHAMFER	HM HOLLOW METAL	SQ SQUARE
CIP CAST IN PLACE	HORIZ HORIZONTAL	SS STAINLESS STEEL
CJ CONTROL JOINT	HR HANDRAIL	ST STREET
CL CENTER LINE	HR HOUR	STD STANDARD
CLG CEILING	HT HEIGHT	STL STEEL
CLO CLOSET	HVAC HEATING, VENTILATION, AIR CONDITIONING	STOR STORAGE
CLR CLEAR	IN INCH	STRUCT STRUCTURAL / STRUCTURE
CMU CARBON MONOXIDE DETECTOR	INSUL INSULATION	SUBFLR SUB FLOOR
CONC CONCRETE MASONRY UNIT	INT INTERIOR	SUSP SUSPENDED
CASED OPENING	JAN JANITOR	SYS SYSTEM
COL COLUMN	LJH LONG LEG HORIZONTAL	T TOILET
CONC CONCRETE	LLV LONG LEG VERTICAL	T&G TONGUE AND GROOVE
CONST CONSTRUCTION	LN LINE	TI TOP OF
CONT CONTINUE / CONTINUOUS	LOC LOCATION	TW TOP OF WALL
CONTR CONTRACT / CONTRACTOR	LVL LEVEL	TB TOWEL BAR
CORD CORDONATE	LVR LOUVER	TBD TO BE DETERMINED
CORR CORRIDOR	LWRD LOWERED	TEMP TEMPORARY
CRPT CARPET	MACH MACHINE	TEMP TEMPERATURE
CSMT CASEMENT	MAINT MAINTENANCE	THRU THROUGH
CTOP COUNTERTOP	MATL MATERIAL	TOS TOP OF SLAB
D DRYER	MAX MAXIMUM	TP TOILET PAPER DISPENSER
DBL DOUBLE	ME MECHANICAL EQUIPMENT	TR TOWEL RING
DEMO DEMOLITION	MECH MECHANICAL	TR TREAD
DEPT DEPARTMENT	MEMB MEMBRANE	TUB BATHTUB
DH DOUBLE HUNG	MEP MECHANICAL, ELECTRICAL, AND PLUMBING	TYL TYPICAL
DIA DIAMETER	MFR MANUFACTURER	UC UNDERCOUNTER
DISP DISPOSAL	MICRO MICROWAVE	UL UNDERWRITERS LABORATORY
DN DOWN	MIN MINIMUM	UNO UNLESS NOTED OTHERWISE
DP DEEP	MIR MIRROR	VAN VANITY
DR DOOR	MO MASONRY OPENING	VB VAPOR BARRIER
DSL DOWNSPOUT	MTD MOUNTED	VENT VENTILATION
DTL DETAIL	MTL METAL	VER VERIFY
DW DISHWASHER	N.A. NOT APPLICABLE	VERT VERTICAL
DWG DRAWING	N.S.F. NET SQUARE FOOTAGE	VIF VERIFY IN FIELD
EA EACH	NC NON-COMBUSTIBLE	VOL VOLUME
EJ EXPANSION JOINT	NO. NUMBER	VR VAPOR RETARDER
ELECT ELECTRICAL	NOM NOMINAL	W WASHER
ELEV ELEVATION	NTS NOT TO SCALE	W WIDTH/WIDE
ELEVTR ELEVATOR	OFCI OWNER FURNISHED CONTRACTOR INSTALLED	W WITH
ENG ENGINEER	OH OPPOSITE HAND	WC WHEELCHAIR
ENTR ENTRANCE	OH OVERHEAD	W/O WITHOUT
EQ EQUIP	OPG OPENING	WC WATERCLOSET
EQIP EQUIPMENT	OPP OPPOSITE	WD WOOD
EXCAV EXCAVATE/RD-HON	P.T. POST TENSION	WH WATER HEATER
EXH EXHAUST / EXHAUST HOOD	PER PERIMETER	WI WROUGHT IRON
EXIST EXISTING	PERF PERFORATED	WC WALK-IN CLOSET
EXP EXPOSED	PERP PERPENDICULAR	WIN WINDOW
EXT EXTERIOR	PL PLATE LINE	WK WORK
F.E. FIRE EXTINGUISHER	PLBG PLUMBING	WM WALL MOUNT
FD FLOOR DRAIN	PNLG PANELING	WP WATERPROOF / WATERPROOFING
FDTN FOUNDATION	PR PAIR	WT WEIGHT
FFE FINISH FLOOR ELEVATION	PROP PROPERTY	
FIN FINISH / FINISHED	QTY QUANTITY	

SYMBOL LEGEND

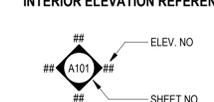
DETAIL CALLOUT REFERENCE



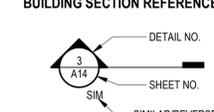
EXTERIOR ELEVATION REFERENCE



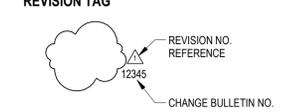
INTERIOR ELEVATION REFERENCE



BUILDING SECTION REFERENCE



REVISION TAG



GRID BUBBLE



MATCHLINE



KEYNOTE



DOOR TAG



WINDOW TAG



WALL TAG



ROOF TAG



FLOOR TAG



FINISH TRANSITION



SPOT ELEVATION



ROOM NAME



AREA TAG



NORTH ARROW



DETACHED GARAGE BUILDING ANALYSIS

DESCRIPTION:

1 STORY PRIVATE GARAGE BUILDING

CLASSIFICATION SUMMARY:

CONSTRUCTION TYPE	V-A
OCCUPANCY CLASSIFICATION	U
INCIDENTAL USE	NONE
ACCESSORY USE	NONE
SPRINKLERED	NO
OCCUPANCY SEPARATION	N/A

BUILDING HEIGHT AND NUMBER OF STORIES

ALLOWABLE HEIGHT ABOVE GRADE PLANE (U)	50'	TABLE 504.3
ACTUAL HEIGHT ABOVE GRADE PLANE	15'	
ALLOWABLE STORIES ABOVE GRADE PLANE (U)	3 STORIES	TABLE 504.4
ACTUAL STORIES ABOVE GRADE PLANE	1 STORIES	

BASEMENT: NO

ALLOWABLE AREA

FRONTAGE INCREASE (I)	NO
TOTAL BUILDING ALLOWABLE AREA	9,000 SF
ACTUAL AREA	
GARAGE	1,376 SF
ACCESSIBLE GARAGE	1,456 SF

BUILDING TYPE A ANALYSIS

DESCRIPTION:

3 STORY MULTI-FAMILY RESIDENTIAL

CLASSIFICATION SUMMARY:

CONSTRUCTION TYPE	V-A	
OCCUPANCY CLASSIFICATION	R-2	
INCIDENTAL USE	MECHANICAL	
ACCESSORY USE	NONE	
SPRINKLERED	YES - NFPA 13R	SECTION 903.3.1.2
OCCUPANCY SEPARATION	N/A	

BUILDING HEIGHT AND NUMBER OF STORIES

ALLOWABLE HEIGHT ABOVE GRADE PLANE (R-2)	60'	TABLE 504.3
ACTUAL HEIGHT ABOVE GRADE PLANE	42'	
ALLOWABLE STORIES ABOVE GRADE PLANE (R-2)	4 STORIES	TABLE 504.4
ACTUAL STORIES ABOVE GRADE PLANE	3 STORIES	

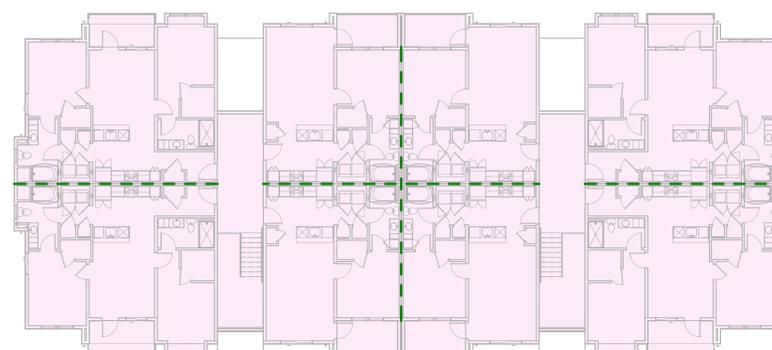
BASEMENT: NO

ALLOWABLE AREA

FRONTAGE INCREASE (I)	NO
TOTAL BUILDING ALLOWABLE AREA	64,800 SF
MAX INDIVIDUAL STORY ALLOWABLE AREA	12,000 SF
ACTUAL AREA	SEE TABLE BELOW

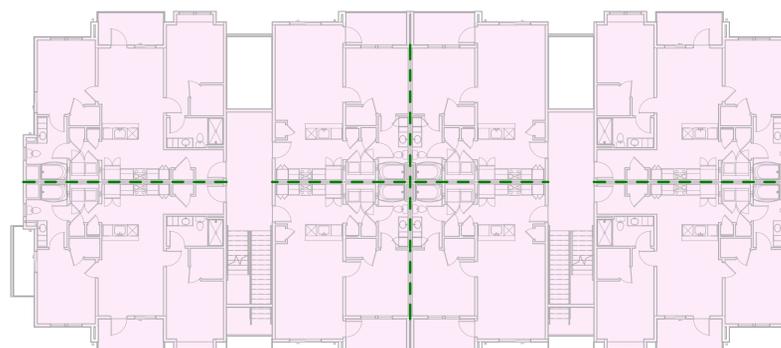
AREA SUMMARY - BLDG TYPE A

Level	Area
BUILDING A	
1ST FLOOR	8047 SF
2ND FLOOR	7775 SF
3RD FLOOR	7753 SF
GRAND TOTAL	23576 SF



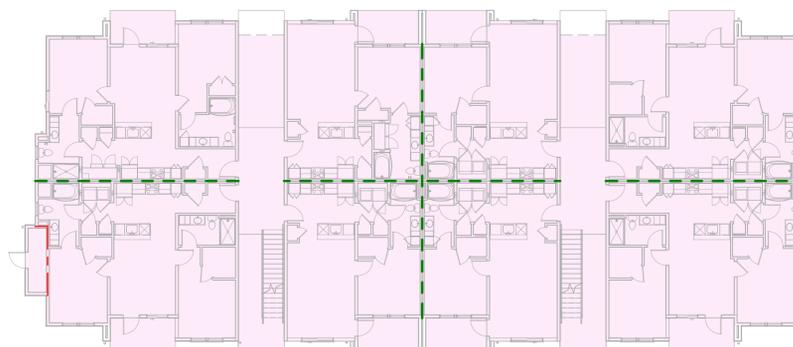
3 BUILDING TYPE A - CODE 3RD FLOOR PLAN

1/16" = 1'-0"



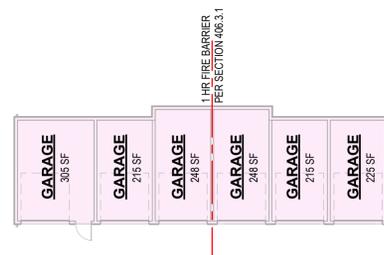
2 BUILDING TYPE A - CODE 2ND FLOOR PLAN

1/16" = 1'-0"



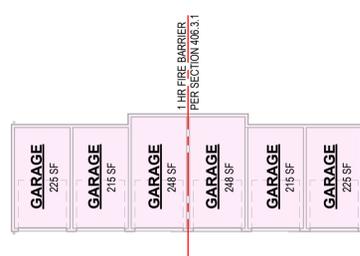
1 BUILDING TYPE A - CODE 1ST FLOOR PLAN

1/16" = 1'-0"



5 ACCESSIBLE GARAGE - CODE FLOOR PLAN

1/16" = 1'-0"



4 GARAGE - CODE FLOOR PLAN

1/16" = 1'-0"

RELEASED FOR CONSTRUCTION As Noted on Plans Review

Development Services Department Lee's Summit, Missouri 64063

nspj ARCHITECTS

ARCHITECTURE LANDSCAPE ARCHITECTURE

P.913.831.1415 NSPJARCH.COM

9415 NALL AVE., #300 PRAIRIE VILLAGE, KANSAS, 66207



A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
 • 02/23/24 100% CD Set
 • 03/22/24 50% CD Set
 • 04/19/24 90% CD Set

REVISIONS

GRAPHIC & LINE TYPE LEGEND

- 1 HR FIRE BARRIER **
- - - 1 HR FIRE PARTITION

** EXTEND WALL FULL HEIGHT THRU INTERSTITIAL SPACE TO BOTTOM OF FLOOR OR ROOF DECK ABOVE. RE: SECTIONS & DETAILS FOR CONTINUITY.

LOAD-BEARING WALLS, ALSO REQUIRED TO BE FIRE RATED, ARE NOT SHOWN ON CODE ANALYSIS DIAGRAMS. REFER TO "FIRE-RESISTANCE RATING REQUIREMENTS" ON A0.01 FOR REQUIRED FIRE RATING. REFER TO STRUCTURAL DRAWINGS FOR LOCATION OF LOAD-BEARING WALLS.

JOB NO. DATE
740623 04.19.24
DRAWN BY:
SW EM KN
CD SET/PERMIT

SHEET NAME
BUILDING TYPE A - CODE PLANS
SHEET NO.

A0.02

ARCH D 24 x 35"

9/3/2024 12:26:56 PM



BUILDING TYPE C ANALYSIS

DESCRIPTION:
3 STORY MULTI-FAMILY RESIDENTIAL

CLASSIFICATION SUMMARY:

CONSTRUCTION TYPE	V-A	
OCCUPANCY CLASSIFICATION	R-2	
INCIDENTAL USE	MECHANICAL	
ACCESSORY USE	NONE	
SPRINKLERED	YES - NFPA 13R	SECTION 903.3.1.2
OCCUPANCY SEPARATION	N/A	

BUILDING HEIGHT AND NUMBER OF STORIES

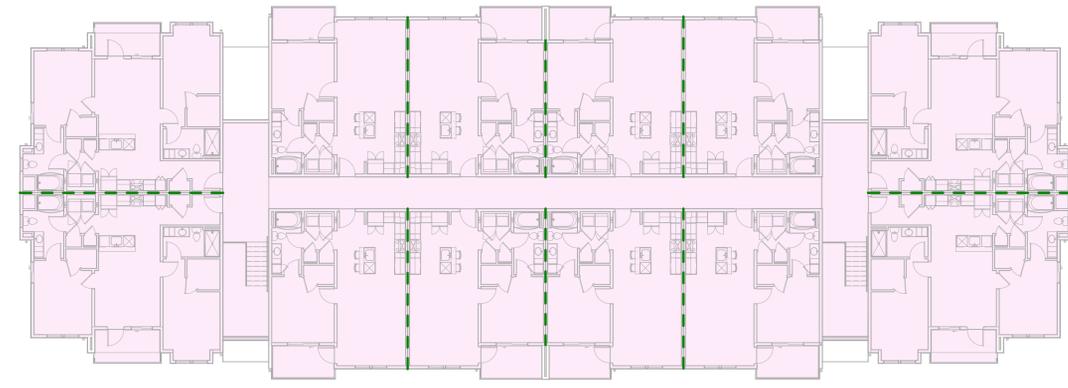
ALLOWABLE HEIGHT ABOVE GRADE PLANE (R-2)	60'	TABLE 504.3
ACTUAL HEIGHT ABOVE GRADE PLANE	42'	
ALLOWABLE STORIES ABOVE GRADE PLANE (R-2)	4 STORIES	TABLE 504.4
ACTUAL STORIES ABOVE GRADE PLANE	3 STORIES	
BASEMENT:	NO	

ALLOWABLE AREA

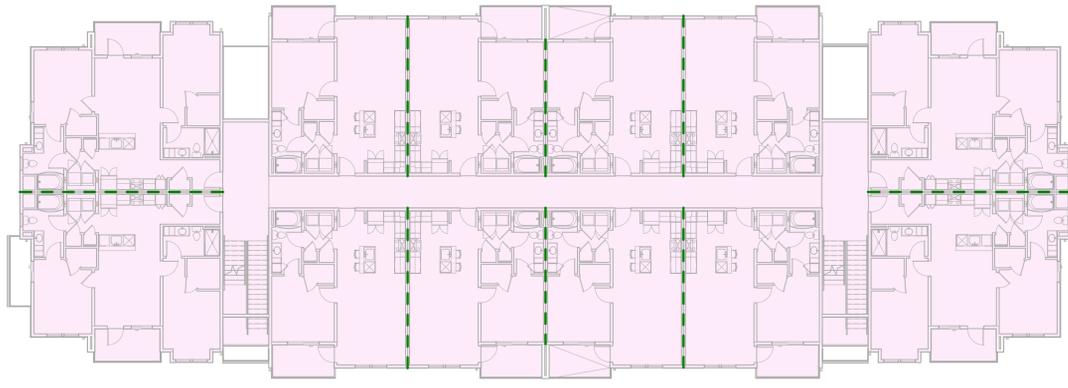
FRONTAGE INCREASE (1)	NO	
TOTAL BUILDING ALLOWABLE AREA	64,800 SF	
MAX INDIVIDUAL STORY ALLOWABLE AREA	12,000 SF	
ACTUAL AREA	SEE TABLE BELOW	

AREA SUMMARY - BLDG TYPE C

Level	Area
BUILDING B	
1ST FLOOR	11665 SF
2ND FLOOR	11321 SF
3RD FLOOR	11300 SF
GRAND TOTAL	34286 SF



3 BUILDING TYPE C - CODE 3RD FLOOR PLAN
1/16" = 1'-0"



2 BUILDING TYPE C - CODE 2ND FLOOR PLAN
1/16" = 1'-0"



1 BUILDING TYPE C - CODE 1ST FLOOR PLAN
1/16" = 1'-0"

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△ REVISIONS

GRAPHIC & LINE TYPE LEGEND

- 1 HR FIRE BARRIER **
- - - 1 HR FIRE PARTITION

** EXTEND WALL FULL HEIGHT THRU INTERSTITIAL SPACE TO BOTTOM OF FLOOR OR ROOF DECK ABOVE. RE: SECTIONS & DETAILS FOR CONTINUITY.

LOAD-BEARING WALLS, ALSO REQUIRED TO BE FIRE RATED, ARE NOT SHOWN ON CODE ANALYSIS DIAGRAMS. REFER TO "FIRE-RESISTANCE RATING REQUIREMENTS" ON A0.01 FOR REQUIRED FIRE RATING. REFER TO STRUCTURAL DRAWINGS FOR LOCATION OF LOAD-BEARING WALLS.

JOB NO. **740623** DATE **04.19.24**
 DRAWN BY **SW EM KN**
 CD SET/PERMIT

SHEET NAME
BUILDING TYPE C - CODE PLANS
 SHEET NO.

A0.03



BUILDING 5 ANALYSIS

DESCRIPTION:
3 STORY MULTI-FAMILY RESIDENTIAL

CLASSIFICATION SUMMARY:

CONSTRUCTION TYPE	V-A	
OCCUPANCY CLASSIFICATION	R-2 & A-3	
INCIDENTAL USE	MECHANICAL	
ACCESSORY USE	NONE	
SPRINKLERED	YES - NFPA 13R	SECTION 903.3.1.2
OCCUPANCY SEPARATION	2-HR HORIZONTAL SEPARATION BETWEEN CLUBHOUSE & 2ND FLR	

BUILDING HEIGHT AND NUMBER OF STORIES

ALLOWABLE HEIGHT ABOVE GRADE PLANE (R-2)	60'	TABLE 504.3
ACTUAL HEIGHT ABOVE GRADE PLANE	42'	
ALLOWABLE STORIES ABOVE GRADE PLANE (R-2)	4 STORIES	TABLE 504.4
ACTUAL STORIES ABOVE GRADE PLANE	3 STORIES	

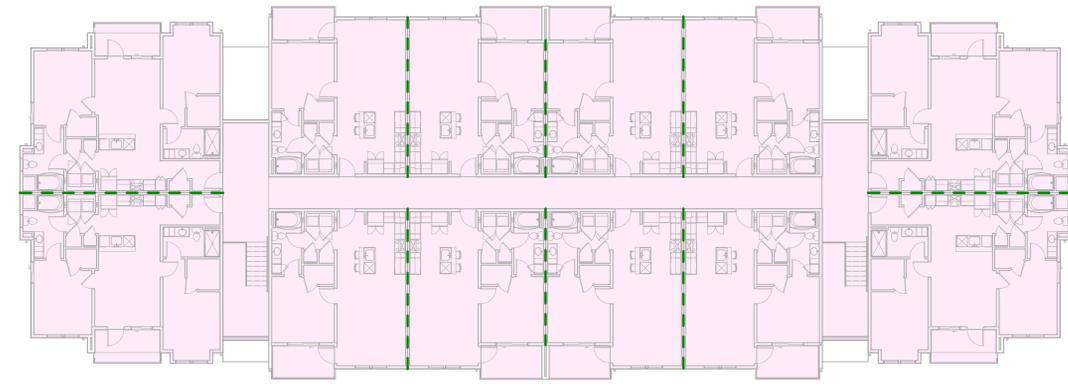
BASEMENT: NO

ALLOWABLE AREA

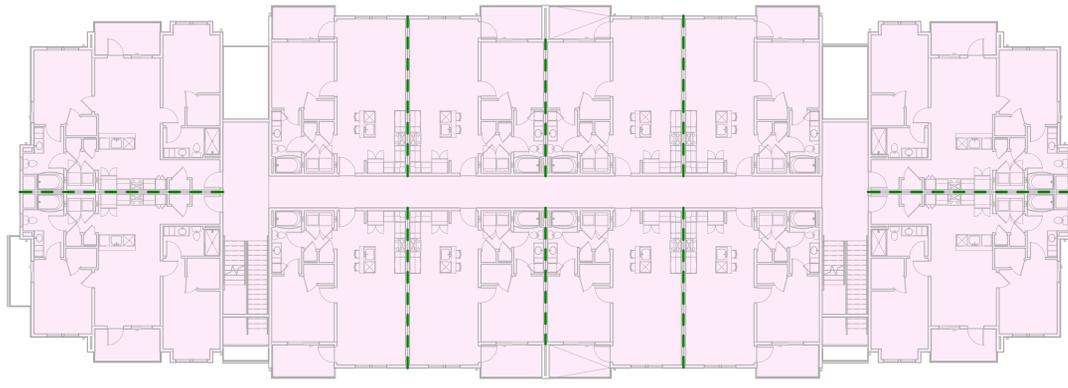
FRONTAGE INCREASE (1)	NO
TOTAL BUILDING ALLOWABLE AREA	64,800 SF
MAX INDIVIDUAL STORY ALLOWABLE AREA	12,000 SF

ACTUAL AREA: SEE TABLE BELOW

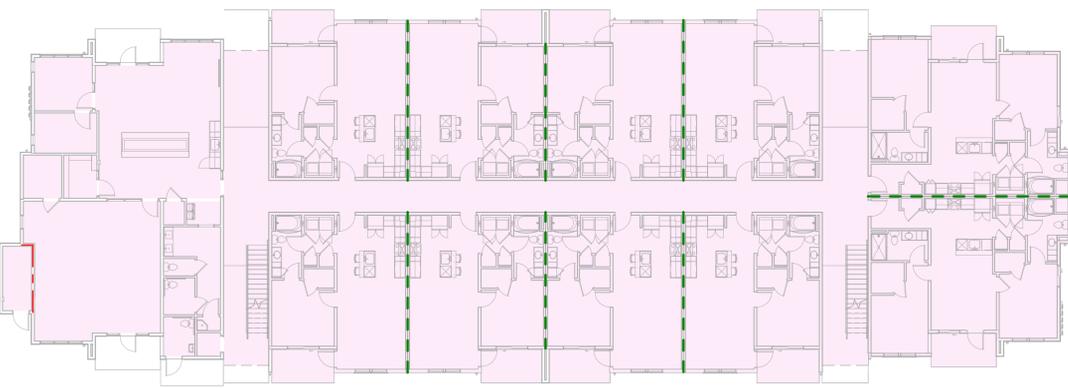
AREA SUMMARY - BLDG 5	
Level	Area
BUILDING B	
1ST FLOOR	11665 SF
2ND FLOOR	11321 SF
3RD FLOOR	11300 SF
GRAND TOTAL	34286 SF



3 BUILDING 5 - CODE 3RD FLOOR PLAN
1/16" = 1'-0"



2 BUILDING 5 - CODE 2ND FLOOR PLAN
1/16" = 1'-0"



1 BUILDING 5 - CODE 1ST FLOOR PLAN
1/16" = 1'-0"

GRAPHIC & LINE TYPE LEGEND

- 1 HR FIRE BARRIER **
- 1 HR FIRE PARTITION

** EXTEND WALL FULL HEIGHT THRU INTERSTITIAL SPACE TO BOTTOM OF FLOOR OR ROOF DECK ABOVE. RE: SECTIONS & DETAILS FOR CONTINUITY.

LOAD-BEARING WALLS, ALSO REQUIRED TO BE FIRE RATED, ARE NOT SHOWN ON CODE ANALYSIS DIAGRAMS. REFER TO "FIRE-RESISTANCE RATING REQUIREMENTS" ON A0.01 FOR REQUIRED FIRE RATING. REFER TO STRUCTURAL DRAWINGS FOR LOCATION OF LOAD-BEARING WALLS.

A NEW APARTMENT COMMUNITY AT:

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DRAWING RELEASE LOG

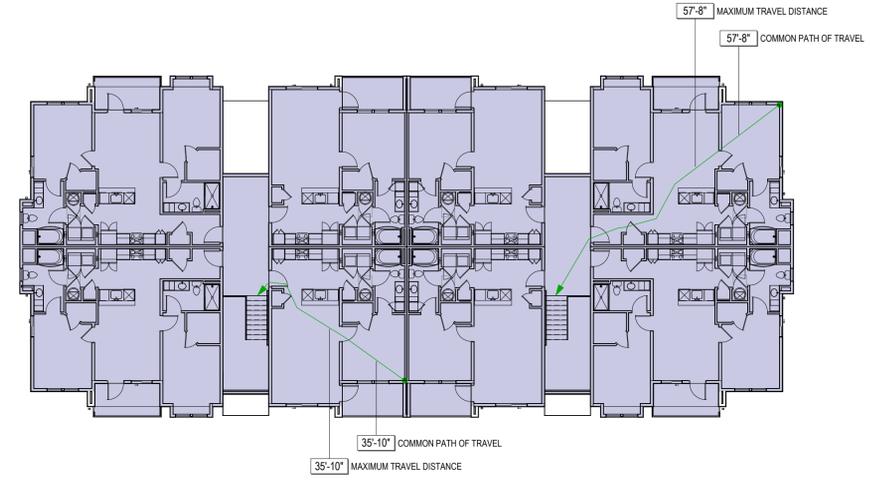
- 02/23/24 100% CD Set
- 03/22/24 50% CD Set
- 04/19/24 90% CD Set

△ REVISIONS

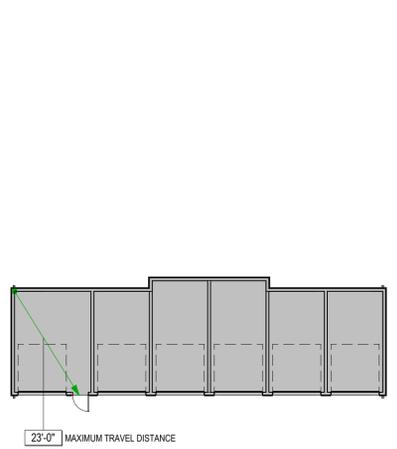
JOB NO. **740623** DATE **04.19.24**
DRAWN BY **SW EM KN**
CD SET/PERMIT

SHEET NAME
BUILDING 5 - CODE PLANS

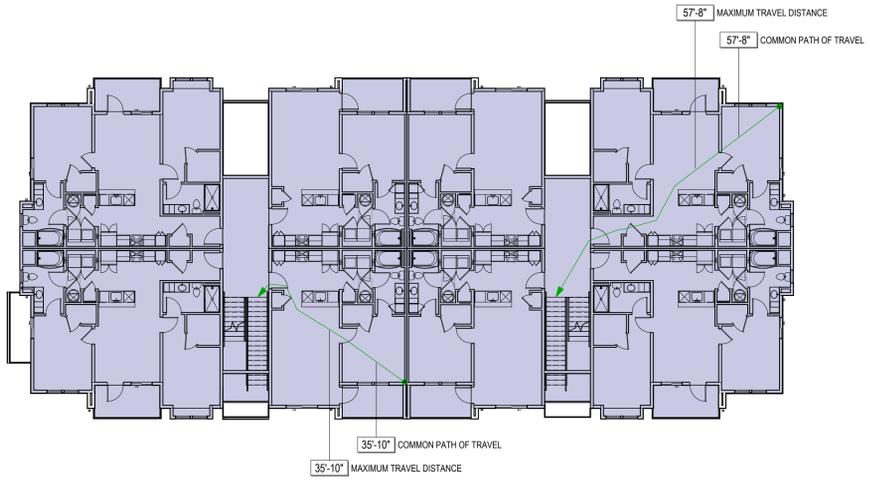
SHEET NO.
A0.04



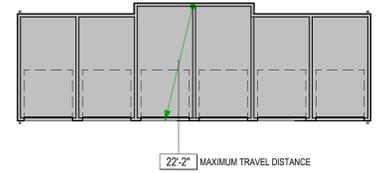
3 BUILDING TYPE A - OCCUPANCY/EGRESS 3RD FLOOR PLAN
1/16" = 1'-0"



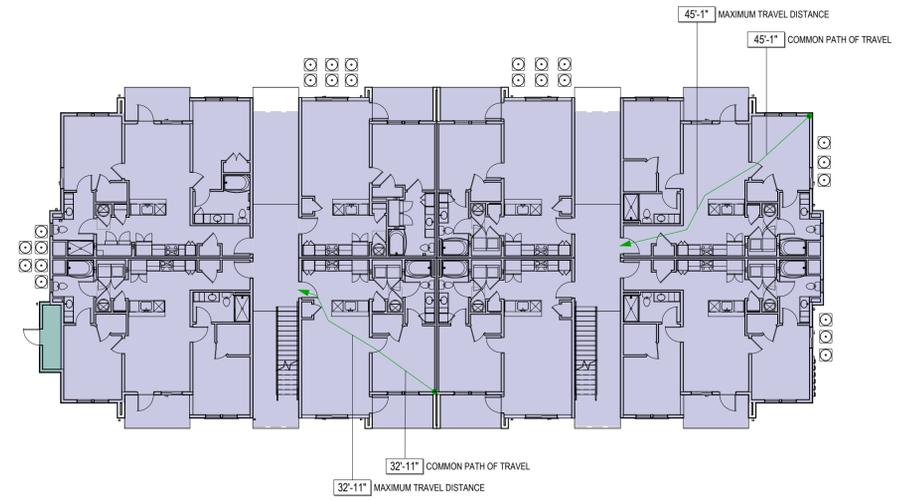
5 ACCESSIBLE GARAGE - OCCUPANCY/EGRESS PLAN
1/16" = 1'-0"



2 BUILDING TYPE A - OCCUPANCY/EGRESS 2ND FLOOR PLAN
1/16" = 1'-0"



4 GARAGE - OCCUPANCY/EGRESS PLAN
1/16" = 1'-0"



1 BUILDING TYPE A - OCCUPANCY/EGRESS 1ST FLOOR PLAN
1/16" = 1'-0"

AREA FUNCTION LEGEND

- RESIDENTIAL
- ACCESSORY STORAGE AREAS, MECHANICAL ROOM
- ASSEMBLY - WITHOUT FIXED SEATS - TABLES AND CHAIRS
- BUSINESS AREAS
- EXERCISE ROOM
- PRIVATE GARAGE

A NEW APARTMENT COMMUNITY AT:
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DRAWING RELEASE LOG

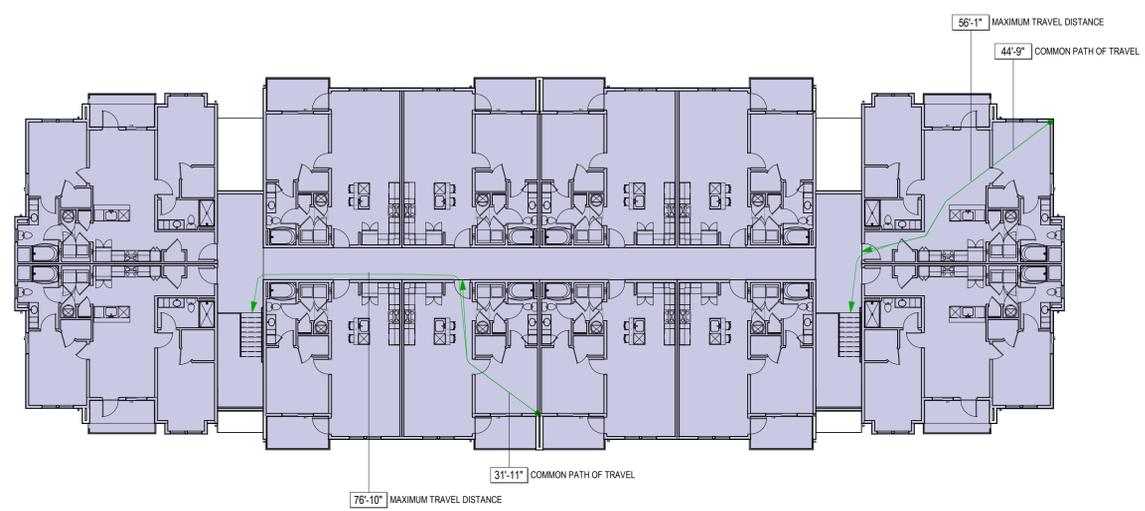
- 02/23/24 100% CD Set
- 03/22/24 50% CD Set
- 04/19/24 90% CD Set

△ REVISIONS

JOB NO. **740623** DATE **04.19.24**
DRAWN BY **SW EM KN**
CD SET/PERMIT

SHEET NAME
**BUILDING TYPE A -
OCCUPANCY/EGRESS
PLANS** No.

A0.05



3 BUILDING TYPE C - OCCUPANCY/EGRESS 3RD FLOOR PLAN
1/16" = 1'-0"

CLUBHOUSE POOL OCCUPANCY

OCCUPANCY TYPE	GROSS FLOOR AREA	LOAD FACTOR	OCCUPANT LOAD
POOL	1000 SF	50 GROSS	20 OCCUPANTS
POOL DECK	3,317 SF	15 GROSS	222 OCCUPANTS
TOTAL OCCUPANT LOAD			242 OCCUPANTS

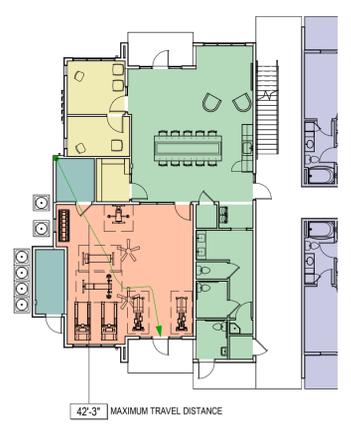
CLUBHOUSE FIXTURES PROVIDED: 3
*COUNT BASED ON OCCUPANT LOAD OF THE RESIDENTIAL COMPONENT, AS THE POOL AREA IS BEING UTILIZED BY RESIDENTS ONLY AND WILL NEVER REACH MAXIMUM OCCUPANCY LOAD.

AREA OCCUPANCY - CLUBHOUSE

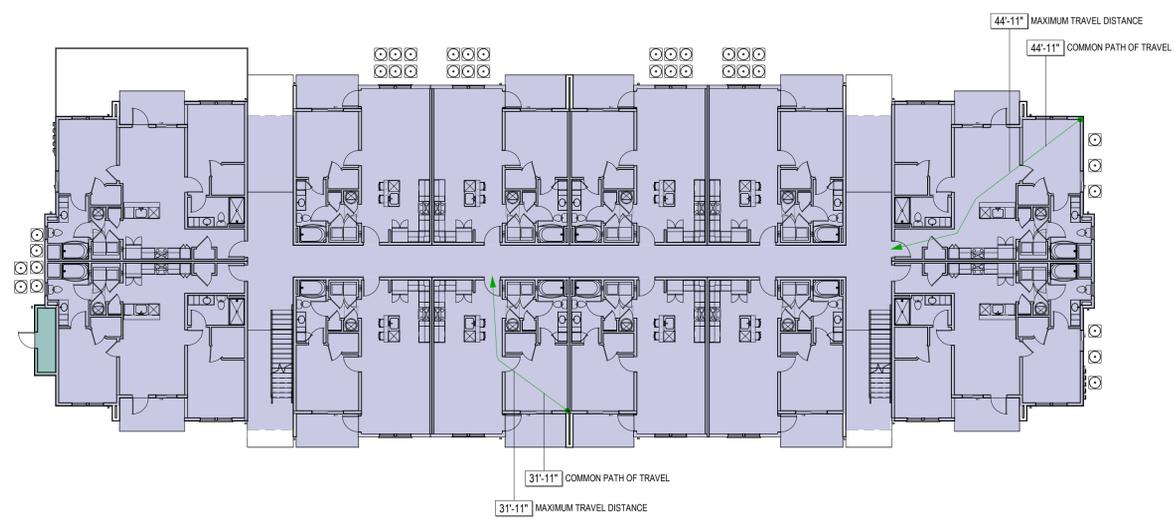
Level	Area Function	Occupant Load Factor & Type	Area	Occupant Load
CLUBHOUSE				
1ST FLOOR	ACCESSORY STORAGE AREAS, MECHANICAL ROOM	300 SF GROSS	124 SF	0.41
1ST FLOOR	ASSEMBLY - WITHOUT FIXED SEATS - TABLES AND CHAIRS	15 SF NET	935 SF	62.35
1ST FLOOR	BUSINESS AREAS	150 SF GROSS	249 SF	1.66
1ST FLOOR	EXERCISE ROOMS	50 SF GROSS	621 SF	12.41
			1929 SF	76.84
GRAND TOTAL			1929 SF	76.84



2 BUILDING TYPE C - OCCUPANCY/EGRESS 2ND FLOOR PLAN
1/16" = 1'-0"



4 CLUBHOUSE OCCUPANCY/EGRESS PLAN
1/16" = 1'-0"



AREA FUNCTION LEGEND

- RESIDENTIAL
- ACCESSORY STORAGE AREAS, MECHANICAL ROOM
- ASSEMBLY - WITHOUT FIXED SEATS - TABLES AND CHAIRS
- BUSINESS AREAS
- EXERCISE ROOM
- PRIVATE GARAGE

1 BUILDING TYPE C - OCCUPANCY/EGRESS 1ST FLOOR PLAN
1/16" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
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NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG

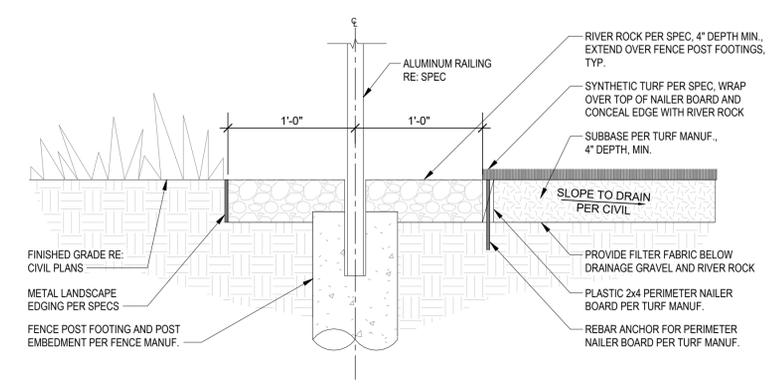
- 03/23/24 100% CD Set
- 03/22/24 50% CD Set
- 04/19/24 90% CD Set

REVISIONS

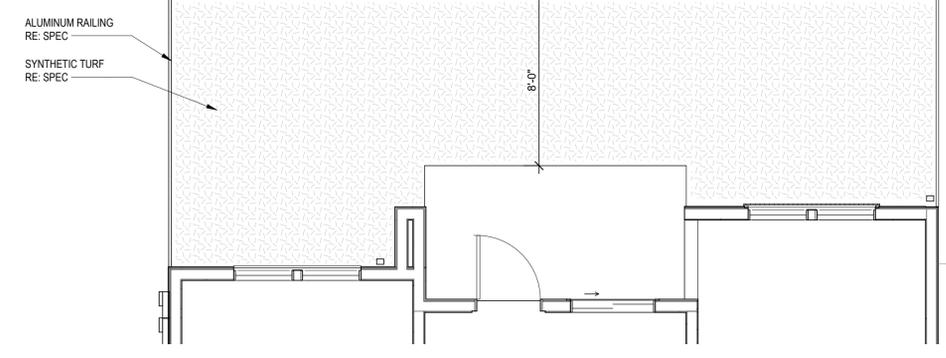
1	9/27/24	CITY COMMENT RESPONSES
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JOB NO. **740623** DATE **04.19.24**
DRAWN BY **SW EM KN**
CD SET/PERMIT

SHEET NAME
BUILDING TYPE C - OCCUPANCY/EGRESS PLANS
A0.06



3 TURF DETAIL
1 1/2" = 1'-0"



2 TYPICAL PET PATIO PLAN
1/4" = 1'-0"



1 ARCHITECTURAL SITE PLAN
1" = 40'-0"

A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
• 02/23/24 100% CD Set
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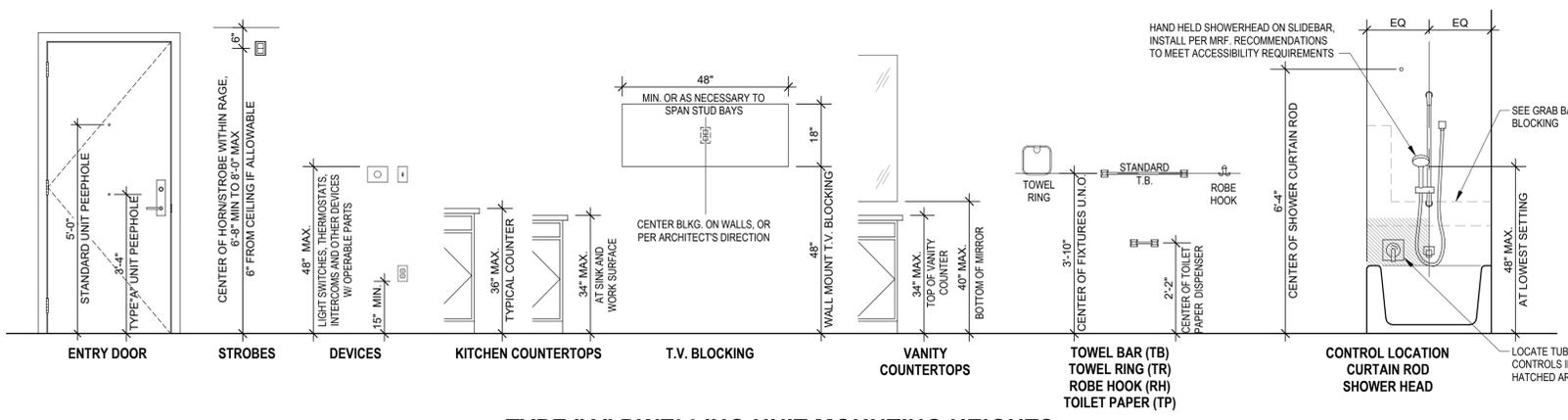
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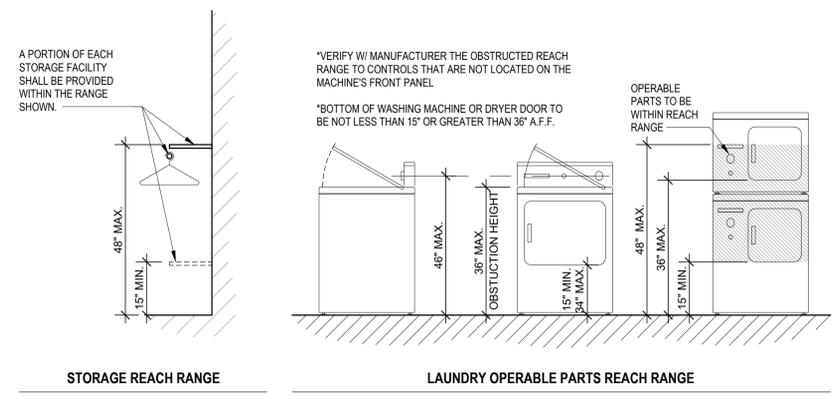
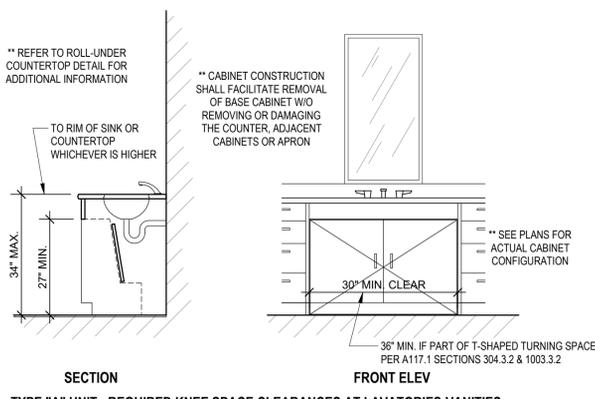




TYPE "A" DWELLING UNIT MOUNTING HEIGHTS

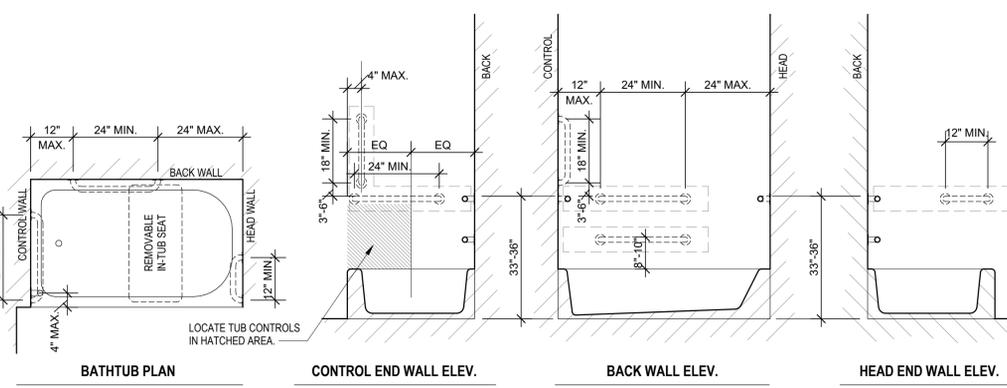
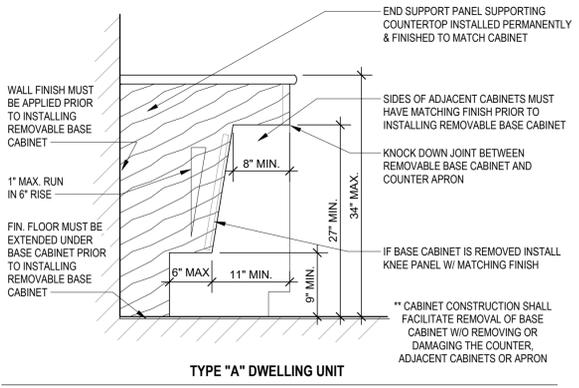
TYPE "A" DWELLING UNITS - ACCESSIBILITY NOTES

- UNITS DESIGNATED ON THE PLANS AS "TYPE A" SHALL MEET ALL APPLICABLE REQUIREMENTS OF A117.1-2009 SECTION 1003.
- ACCESSIBLE ROUTE:**
- THE ACCESSIBLE PRIMARY ENTRANCE SHALL BE ON AN ACCESSIBLE ROUTE FROM PUBLIC AND COMMON AREAS.
 - AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ALL SPACES AND ELEMENTS THAT ARE A PART OF THE UNIT. AN ACCESSIBLE ROUTE SHALL HAVE A CLEAR WIDTH OF 36" MIN. ALL ROOMS SERVED BY AN ACCESSIBLE ROUTE PROVIDE A 60" WHEELCHAIR TURNING SPACE EXCEPT FOR BATHROOMS NOT REQUIRED TO COMPLY. A TURNING SPACE IS NOT REQUIRED WITHIN CLOSETS OR PANTRIES THAT ARE 48" MAXIMUM IN DEPTH.
 - ACCESSIBLE ROUTES SHALL CONSIST OF ONE OR MORE OF THE FOLLOWING ELEMENTS: FLOOR OR GROUND SURFACES WITH A SLOPE NOT STEEPER THAN 1:20, DOORS / DOORWAYS, RAMPS, ELEVATORS, AND WHEELCHAIR (PLATFORM) LIFTS.
 - WHERE CHANGES IN ELEVATION GREATER THAN 1/2" BUT LESS THAN 12" EXIST IN THE MEANS OF EGRESS, SLOPED SURFACES SHALL BE USED. CHANGES IN LEVEL OF 1/4" HIGH MAX. SHALL BE PERMITTED TO BE VERTICAL. CHANGES IN LEVEL BETWEEN 1/4" HIGH MIN. AND 1/2" HIGH MAX. SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2. THRESHOLDS AT EXTERIOR SLIDING DOORS SHALL BE PERMITTED TO BE 3/4" HIGH MAX. PROVIDED THEY ARE BEVELED WITH A SLOPE NOT GREATER THAN 1:2.
- DOORS:**
- THE PRIMARY ENTRANCE DOOR TO THE DWELLING UNIT, AND ALL OTHER DOORWAYS INTENDED FOR USER PASSAGE, SHALL PROVIDE A CLEAR WIDTH OF NOT LESS THAN 32". CLEAR OPENINGS OF DOORS SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES. THRESHOLDS, IF PROVIDED, AT DOORWAYS SHALL BE 1/2" HIGH MAX. WHERE A THRESHOLD IS OVER THE SWING OF THE DOOR, THE HEIGHT OF THE THRESHOLD SHOULD BE BEVELED.
 - DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO AN OPEN POSITION OF 12 DEGREES SHALL BE 5 SECONDS MIN. DOOR SPRING HINGES SHALL BE ADJUSTED TO HOLD THE DOOR FROM THE OPEN POSITION OF 70 DEGREES, THE DOOR SHALL MOVE TO THE CLOSED POSITION IN 1.5 SECONDS MIN.
 - THE FORCE FOR PUSHING OR PULLING OPEN DOORS, OTHER THAN FIRE DOORS, SHALL BE 5.0 LBS. MAX. FOR INTERIOR HINGED DOORS AND 5.0 LBS. MAX. FOR SLIDING OR FOLDING DOORS. THESE FORCES DO NOT APPLY TO THE REAR OF THE DOOR TWISTING OF RETRACT LATCH BOLTS OR DISENGAUGE OTHER DEVICES THAT HOLD THE DOOR IN A CLOSED POSITION.
 - HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON ALL ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING OR TWISTING TO OPERATE. OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34" MIN. AND 48" MAX. AFF. WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES.
 - DOOR SURFACES WITHIN 10" OF THE FLOOR MEASURED VERTICALLY SHALL BE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR EXCEPT SLIDING DOORS.
- TOILET AND BATHING FACILITIES:**
- AT LEAST ONE TOILET AND BATHING FACILITY MUST COMPLY HAVING AT LEAST ONE LAVATORY, WATER CLOSET, AND EITHER A BATHTUB OR SHOWER.
 - DOORS SHALL NOT SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE FOR ANY FIXTURE EXCEPT WHEN A CLEAR FLOOR SPACE OF 30" BY 48" IS PROVIDED WITHIN THE ROOM BEYOND THE ARC OF THE DOOR SWING.
 - LAVATORY HEIGHT SHALL BE 34" MAX A.F.F. LAVATORY CLEAR FLOOR SPACE SHALL BE 30"x48" AND POSITIONED FOR FORWARD APPROACH WITH KNEE AND TOE CLEARANCES PER A117.1 SECTION 606.
 - LAVATORY CABINETS SHALL BE PERMITTED UNDER THE LAVATORY PROVIDED THE CABINETS CAN BE REMOVED WITHOUT REMOVAL OR REPLACEMENT OF THE LAVATORY, THE FLOOR FINISH EXTENDS UNDER, AND THE SURROUNDING CABINETS ARE FINISHED.
 - THE WATER CLOSET SHALL BE POSITIONED WITH A WALL TO THE REAR AND TO ONE SIDE. THE CENTERLINE OF THE WATER CLOSET SHALL BE 16" MIN. AND 18" MAX. FROM THE SIDE WALL. WATER CLOSET FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET.
 - WATER CLOSET SEAT HEIGHT SHALL BE A MIN. 15" AND A MAX 19" A.F.F., MEASURED TO THE TOP OF THE SEAT.
 - REINFORCEMENT SHALL BE PROVIDED IN WALLS TO PERMIT THE FUTURE INSTALLATION OF GRAB BARS.
 - MIRRORS SHALL HAVE THE BOTTOM EDGE OF THE REFLECTING SURFACE 40" MAXIMUM AFF. BATHTUB HAND SHOWERS SHALL BE PROVIDED PER A117.1 SECTION 607.6.
- KITCHENS:**
- KITCHEN CLEARANCES SHALL COMPLY WITH A117.1 SECTION 1003.12.1. CLEARANCE BETWEEN ALL OPPOSING BASE CABINETS, COUNTERTOPS, APPLIANCES, OR WALLS WITHIN KITCHEN WORK AREAS SHALL BE 60" MIN.
 - A CLEAR FLOOR SPACE OF 30"x48" AT EACH APPLIANCE; HOWEVER, A REFRIGERATOR MUST PROVIDE A PARALLEL APPROACH. PROVIDE A PARALLEL APPROACH AT REFRIGERATORS AND RANGES. ALL OTHER APPLIANCES MAY BE PARALLEL OR FORWARD.
 - CLEAR FLOOR SPACE SHALL BE POSITIONED ADJACENT TO THE DISHWASHER DOOR. THE DISHWASHER DOOR IN THE OPEN POSITION SHALL NOT OBSTRUCT THE CLEAR FLOOR SPACE FOR THE DISHWASHER DOOR IN THE OPEN POSITION, SHALL NOT BE REQUIRED TO HAVE OPERABLE PARTS WITHIN THE REQUIRED REACH RANGES.
 - COMBINATION REFRIGERATORS AND FREEZERS SHALL HAVE AT LEAST 50% OF THE FREEZER SPACE 54" MAX. AFF.
 - ALL CABINETS SHALL HAVE A CLEAR FLOOR SPACE POSITIONED FOR PARALLEL OR FORWARD APPROACH. THE SHELVES NEED NOT BE LOCATED WITHIN REACH RANGES OR THE HANDLES MEET OPERABLE PARTS PROVISIONS.
 - A WORK SURFACE 30" MIN. IN LENGTH, WITH A CLEAR FLOOR SPACE OF 30"x48" AND POSITIONED FOR FORWARD APPROACH, KNEE AND TOE CLEARANCES PER A117.1 SECTION 306 SHALL BE PROVIDED. CLEAR FLOOR SPACE SHALL BE CENTERED ON THE WORK SURFACE. WORK SURFACE HEIGHT SHALL BE 34" MAX. UNLESS ADJUSTABLE.
 - WORK SURFACE CABINETS SHALL BE PERMITTED IF THE CABINETS IS EASILY REMOVABLE WITHOUT REMOVING WORK SURFACE, THE FINISH FLOORING EXTENDS UNDER, AND THE WALLS BEHIND AND SURROUNDING ARE FINISHED.
 - A SINK COMPLYING WITH A CLEAR FLOOR SPACE OF 30"x48" AND POSITIONED FOR FORWARD APPROACH, KNEE AND TOE CLEARANCES PER A117.1 SECTION 306 SHALL BE PROVIDED. MINIMUM SURFACE AREA FOR COUNTER SURFACE WHICHEVER IS HIGHER.
 - SINK CABINETS SHALL BE PERMITTED IF THE CABINETS IS EASILY REMOVABLE WITHOUT REMOVING THE SINK, THE FINISH FLOORING EXTENDS UNDER, AND THE WALLS BEHIND AND SURROUNDING ARE FINISHED.
 - MICROWAVE / HOOD COMBOS ARE NOT COMPLIANT DUE TO REACH RANGES. PROVIDE A SEPARATE SWITCHED HOOD VENT AND COUNTERTOP MICROWAVE. SWITCH MUST COMPLY WITH OUTLET REQUIREMENTS AND HAVE A 30" BY 48" CLEAR FLOOR SPACE CENTERED ON THE SWITCH.
 - THE LOCATION OF COOKTOP AND OVEN CONTROLS SHALL NOT REQUIRE REACHING ACROSS BURNERS.
- LAUNDRY EQUIPMENT:**
- A CLEAR FLOOR SPACE (30"x48") COMPLYING WITH A117.1 SECTION 305 POSITIONED FOR PARALLEL APPROACH SHALL BE PROVIDED. FOR TOP LOADING MACHINES, THE CLEAR FLOOR SPACE SHALL BE CENTERED ON THE APPLIANCE. FOR FRONT LOADING MACHINES, THE CENTERLINE OF THE CLEAR FLOOR SPACE SHALL BE OFFSET 24" MAX. FROM THE CENTERLINE OF THE DOOR OPENING.
 - OPERABLE PARTS, INCLUDING DOORS, LINT SCREENS, DETERGENT AND BLEACH COMPARTMENTS SHALL COMPLY WITH A117.1 SECTION 309.
 - TOP LOADING LAUNDRY MACHINES SHALL HAVE THE DOOR TO THE LAUNDRY COMPARTMENT 36" MAX. ABOVE THE FLOOR. FRONT LOADING MACHINES SHALL HAVE THE DOOR TO THE LAUNDRY COMPARTMENT 15" MIN. AND 34" MAX. ABOVE THE FLOOR.
- OPERABLE PARTS:**
- LIGHTING CONTROLS, ELECTRICAL PANELBOARDS, ELECTRICAL SWITCHES / RECEPTACLE OUTLETS, ENVIRONMENTAL CONTROLS, APPLIANCE CONTROLS, OPERATING HARDWARE FOR OPERABLE WINDOWS, PLUMBING FIXTURE CONTROLS FOR SECURITY OR INTERCOM SYSTEMS SHALL BE ACCESSIBLE AND COMPLY WITH A117.1 SECTION 309, EXCEPT RECEPTACLES SERVING A DEDICATED USE, FLOOR ELECTRICAL RECEPTACLES, HVAC DIFFUSERS, CONTROLS MOUNTED ON RANGE HOODS ONLY IF ACCESSIBLE REDUNDANT CONTROLS ARE PROVIDED, CONTROLS MOUNTED ON CEILING FANS, AND RESET BUTTONS AND SHUT-OFFS SERVING APPLIANCES, PIPING / PLUMBING FIXTURES, WHERE 2 OR MORE RECEPTACLES ARE PROVIDED IN A KITCHEN ABOVE A LENGTH OF COUNTER TOP THAT IS UNINTERRUPTED BY A SINK OR APPLIANCE, ONE RECEPTACLE OUTLET SHALL NOT BE REQUIRED TO COMPLY WITH GRASPING AND FORCE PROVISIONS.
- GENERAL ACCESSIBILITY NOTES**
- INSTALL CONCEALED 2X8 REINFORCEMENT AT LOCATIONS SHOWN AND AS REQUIRED TO FACILITATE THE INSTALLATION OF THE GRAB BARS & SEATS SHOWN. REINFORCEMENT SHALL BE CAPABLE OF SUPPORTING A VERTICAL OR HORIZONTAL FORCE OF 250 LBS APPLIED AT ANY POINT ALONG THE GRAB BAR, SEAT OR MOUNTED DEVICE.
 - INFORMATION SHOWN IS TO ILLUSTRATE GENERAL ACCESSIBILITY REQUIREMENTS. SEE SPECIFIC PLANS & INTERIOR ELEVATIONS FOR REQUIRED DIMENSIONS, STYLES, AND MATERIALS.



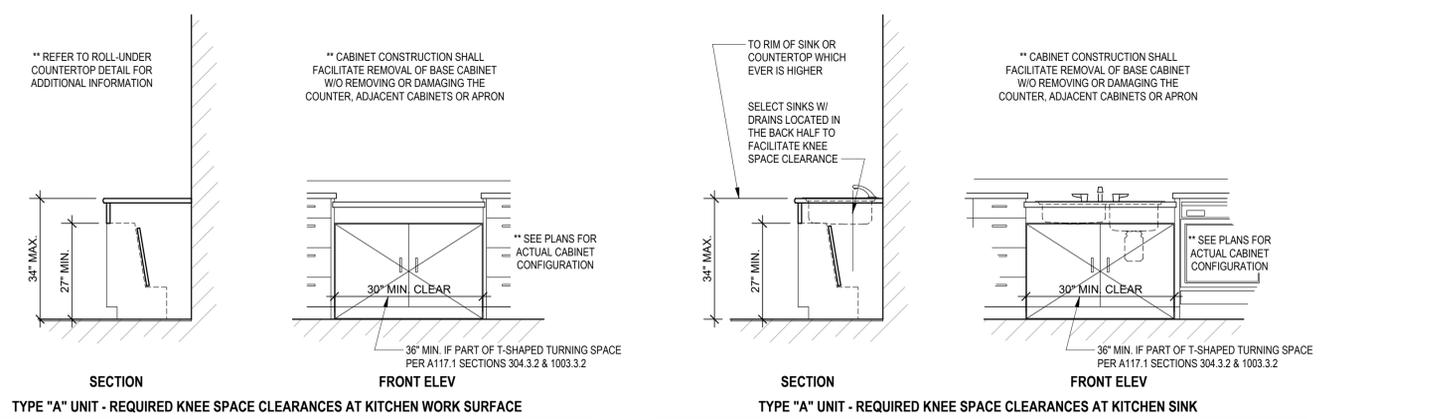
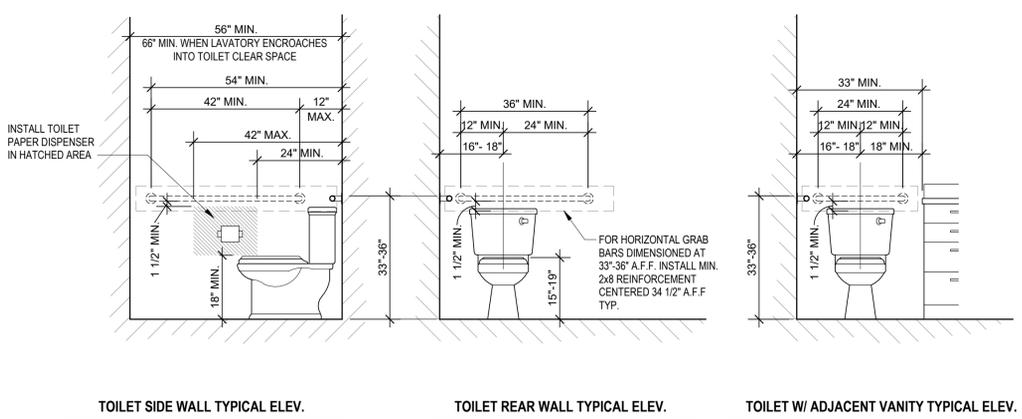
TYPE "A" DWELLING UNIT LAVATORIES-VANITIES

TYPE "A" DWELLING UNIT ACCESSIBLE REACH RANGE



ROLL-UNDER COUNTERTOP DETAIL

TYPE "A" DWELLING UNIT GRAB BAR REINFORCEMENT FOR BATHTUBS



TYPE "A" DWELLING UNIT GRAB BAR REINFORCEMENT FOR TOILETS

TYPE "A" DWELLING UNIT AT KITCHEN

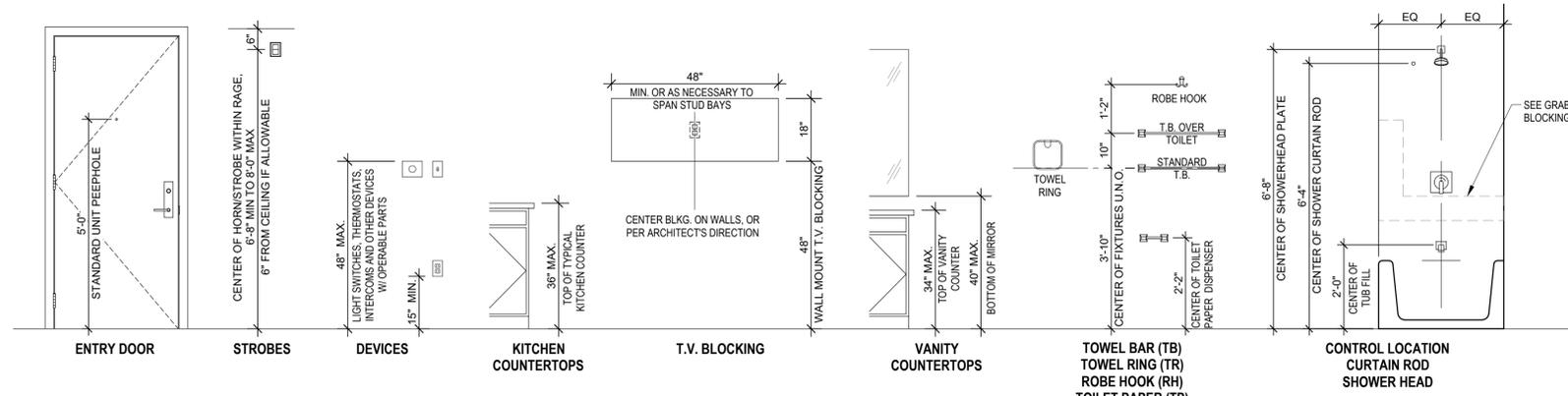
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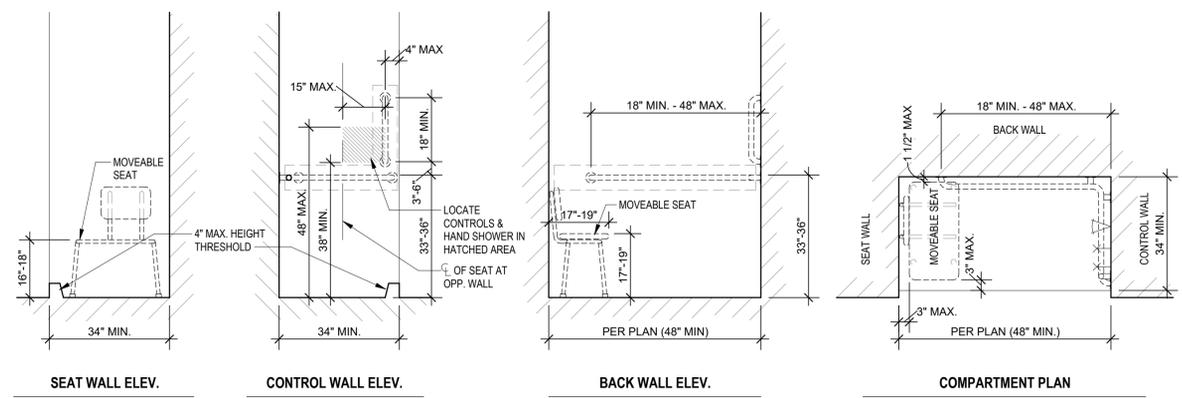
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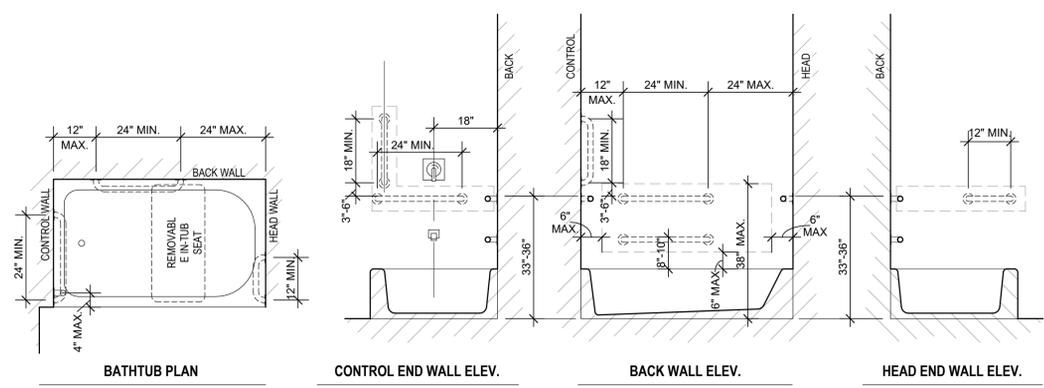
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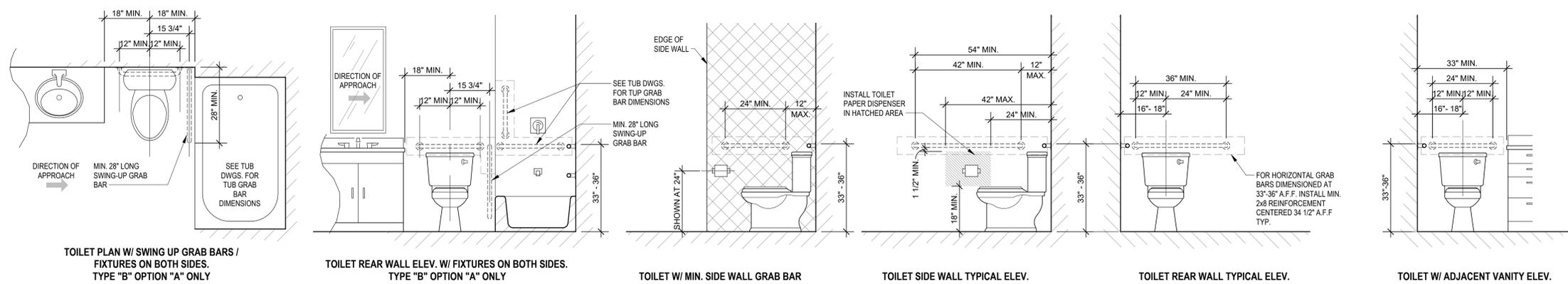
TYPE "B" DWELLING UNIT MOUNTING HEIGHTS



TYPE "B" DWELLING UNIT GRAB BAR REINFORCEMENT FOR SHOWERS



TYPE "B" DWELLING UNIT GRAB BAR REINFORCEMENT FOR BATHTUBS



TYPE "B" DWELLING UNIT GRAB BAR REINFORCEMENT FOR TOILETS

TYPE "B" DWELLING UNITS - ACCESSIBILITY NOTES

ALL UNITS NOT DESIGNATED AS "TYPE A" OR "EXEMPT" ARE CONSIDERED "TYPE B" AND SHALL MEET ALL APPLICABLE REQUIREMENTS OF A117.1-2009 SECTION 1004 AND THE FAIR HOUSING ACT.

ACCESSIBLE ROUTE:

1. THE ACCESSIBLE PRIMARY ENTRANCE SHALL BE ON AN ACCESSIBLE ROUTE FROM PUBLIC AND COMMON AREAS.
 2. AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ALL SPACES & ELEMENTS WHICH ARE PART OF THE DWELLING UNIT. AN ACCESSIBLE ROUTE SHALL HAVE A CLEAR WIDTH OF 36" MIN.
 3. ACCESSIBLE ROUTES SHALL CONSIST OF ONE OR MORE OF THE FOLLOWING ELEMENTS: WALKING SURFACES WITH A SLOPE NOT STEEPER THAN 1:20, DOORS AND DOORWAYS, RAMPS, ELEVATORS, AND WHEELCHAIR (PLATFORM) PATIO/BALCONY SURFACES ARE IMPERVIOUS, THE FINISHED IMPERVIOUS SURFACE SHALL BE 4" MAX. BELOW THE FLOOR LEVEL OF THE ADJACENT INTERIOR SPACES OF THE UNIT.
- #### DOORS:
1. THE PRIMARY ENTRANCE DOOR TO THE DWELLING UNIT SHALL PROVIDE A CLEAR WIDTH OF NOT LESS THAN 32". CLEAR OPENINGS OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR OPEN 90 DEGREES. MANEUVERING CLEARANCES SHALL BE PROVIDED ON BOTH SIDES OF THE PRIMARY ENTRANCE DOOR.
 2. ALL DOORWAYS INTENDED FOR USER PASSAGE WITHIN THE DWELLING UNIT SHALL HAVE A CLEAR OPENING OF 31 3/4" MIN., MEASURED BETWEEN THE FACE OF THE DOOR AND STOP, WITH THE DOOR OPEN 90 DEGREES.
 3. THRESHOLDS AT ALL EXTERIOR DOORS SHALL NOT EXCEED 1/2", EXCEPT SLIDING DOORS SHALL NOT EXCEED 3/4". CHANGES IN LEVEL OF 1/4" HIGH MAX. SHALL BE PERMITTED TO BE VERTICAL. CHANGES IN LEVEL BETWEEN 1/4" HIGH MIN. AND 1/2" HIGH MAX. SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2.
 4. WHERE AN INACTIVE LEAF OF DOUBLE LEAF DOORWAYS WITH OPERABLE PARTS MORE THAN 48" OR LESS THAN 15" ABOVE THE FLOOR IS PROVIDED, THE ACTIVE LEAF SHALL PROVIDE A CLEAR OPENING OF 31 3/4" MIN.
 5. THE MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 8 1/2 LBS. FOR EXTERIOR DOORS AND 5 LBS. FOR INTERIOR DOORS.
 6. HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON THE PRIMARY ENTRY DOOR SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. SUCH HARDWARE SHALL BE 34" MIN. AND 48" MAX. AFF.

TOILET AND BATHING FACILITIES:

1. DOORS SHALL NOT SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE FOR ANY FIXTURE EXCEPT WHEN A CLEAR FLOOR SPACE OF 30" BY 48" IS PROVIDED BEYOND THE ARC OF THE DOOR SWING.
 2. REINFORCEMENT SHALL BE PROVIDED FOR FUTURE INSTALLATION OF GRAB BARS AND SHOWER SEATS AT WATER CLOSETS, BATHTUBS, AND SHOWER COMPARTMENTS. REINFORCEMENT IS NOT REQUIRED IN A ROOM CONTAINING A WATER CLOSET, PROVIDED THAT THE ROOM DOES NOT CONTAIN THE ONLY LAVATORY OR WATER CLOSET ON THE ACCESSIBLE LEVEL OF THE DWELLING UNIT.
 3. EITHER ALL TOILET AND BATHING AREAS SHALL COMPLY WITH "OPTION A" REQUIREMENTS, OR ONE TOILET AND BATHING AREA SHALL COMPLY WITH "OPTION B" REQUIREMENTS.
- #### OPTION A:
1. ALL FIXTURES WITHIN THE DWELLING UNIT SHALL COMPLY.
 2. A CLEAR FLOOR SPACE POSITIONED FOR A PARALLEL APPROACH SHALL BE PROVIDED AND CENTERED AT THE LAVATORY.
 3. THE WATER CLOSET SHALL BE POSITIONED TO ALLOW FOR FUTURE INSTALLATION OF A GRAB BAR ON THE SIDE WITH 18" CLEARANCE.
 4. IF A SHOWER COMPARTMENT IS THE ONLY BATHING FACILITY THE SHOWER COMPARTMENT SHALL HAVE MINIMUM DIMENSIONS OF 36" MIN. BY 36" MIN. REINFORCING FOR SHOWER SEAT IS NOT REQUIRED IN SHOWER COMPARTMENTS LARGER THAN 36" BY 36". CLEARANCE 30" MIN, MEASURED FROM THE FACE OF THE SHOWER COMPARTMENT, BY 48" MIN., MEASURED FROM THE SHOWER HEAD WALL SHALL BE PROVIDED.

OPTION B:

1. ONE OF EACH TYPE OF FIXTURE PROVIDED AND SHALL BE IN A SINGLE TOILET/BATHING AREA, SUCH THAT TRAVEL BETWEEN FIXTURES DOES NOT REQUIRE TRAVEL THROUGH OTHER PARTS OF THE UNIT.
2. THE FRONT OF THE LAVATORY SHALL BE 34" MAX. ABOVE THE FLOOR, MEASURED TO THE HIGHER OF THE FIXTURE RIM OR COUNTER SURFACE.
3. THE WATER CLOSET SHALL BE POSITIONED TO ALLOW FOR FUTURE INSTALLATION OF A GRAB BAR ON THE SIDE WITH 18" CLEARANCE.
4. A CLEARANCE 48" MIN IN LENGTH MEASURED PERPENDICULAR FROM THE CONTROL END OF THE BATHTUB, AND 30" MIN. IN WIDTH SHALL BE PROVIDED IN FRONT OF BATHTUBS.
5. IF A SHOWER COMPARTMENT IS THE ONLY BATHING FACILITY THE SHOWER COMPARTMENT SHALL HAVE MINIMUM DIMENSIONS OF 36" MIN. BY 36" MIN. REINFORCING FOR SHOWER SEAT IS NOT REQUIRED IN SHOWER COMPARTMENTS LARGER THAN 36" BY 36". CLEARANCE 30" MIN, MEASURED FROM THE FACE OF THE SHOWER COMPARTMENT, BY 48" MIN., MEASURED FROM THE SHOWER HEAD WALL SHALL BE PROVIDED.

KITCHENS:

1. CLEARANCES SHALL COMPLY WITH A117.11004.12.1. CLEARANCE BETWEEN ALL OPPOSING BASE CABINETS, COUNTER TOPS, APPLIANCES, OR WALLS WITHIN KITCHEN WORK AREAS SHALL BE 40" MINIMUM. IN U-SHAPED KITCHENS THIS CLEARANCE SHALL BE 60" MINIMUM.
2. A CLEAR FLOOR SPACE OF 30" BY 48" POSITIONED FOR PARALLEL OR FORWARD APPROACH SHALL BE PROVIDED AT EACH KITCHEN APPLIANCE AND KITCHEN SINK.
3. A CLEAR FLOOR SPACE, POSITIONED FOR FORWARD OR PARALLEL APPROACH, SHALL BE POSITIONED BEYOND THE SWING OF THE DISHWASHER DOOR.

LAUNDRY EQUIPMENT:

1. A CLEAR FLOOR SPACE OF 30"x48" SHALL BE PROVIDED. A PARALLEL APPROACH SHALL BE PROVIDED FOR A TOP LOADING MACHINE. A FORWARD OR PARALLEL APPROACH SHALL BE PROVIDED FOR A FRONT LOADING MACHINE.

OPERABLE PARTS:

1. LIGHTING CONTROLS, ELECTRICAL PANELBOARDS, ELECTRICAL SWITCHES AND RECEPTACLE OUTLETS, ENVIRONMENTAL CONTROLS, AND USER CONTROLS FOR SECURITY OR INTERCOM SYSTEMS SHALL COMPLY WITH CLEAR FLOOR SPACE AND HEIGHT REQUIREMENTS EXCEPT RECEPTACLES SERVING A DEDICATED USE, FLOOR ELECTRICAL RECEPTACLES, HVAC DIFFUSERS, CONTROLS OR SWITCHES MOUNTED ON APPLIANCES, CONTROLS MOUNTED ON CEILING FANS, AND RESET BUTTONS AND SHUT-OFFS SERVING APPLIANCES, PIPING AND PLUMBING FIXTURES. WHERE TWO OR MORE RECEPTACLE OUTLETS ARE PROVIDED IN A KITCHEN ABOVE A LENGTH OF COUNTER TOP THAT IS UNINTERRUPTED BY A SINK OR APPLIANCE, ONE RECEPTACLE OUTLET SHALL NOT BE REQUIRED TO COMPLY. WITHIN KITCHENS AND BATHROOMS, LIGHTING CONTROLS, ELECTRICAL SWITCHES AND RECEPTACLE OUTLETS ARE PERMITTED TO BE LOCATED OVER CABINETS WITH COUNTER TOPS 36" MAX IN HEIGHT AND 25 1/2" MAX IN DEPTH

GENERAL ACCESSIBILITY NOTES

1. INSTALL CONCEALED 2X8 REINFORCEMENT AT LOCATIONS SHOWN AND AS REQUIRED TO FACILITATE THE INSTALLATION OF THE GRAB BARS & SEATS SHOWN. REINFORCEMENT SHALL BE CAPABLE OF SUPPORTING A VERTICAL OR HORIZONTAL FORCE OF 250 LBS APPLIED AT ANY POINT ALONG THE GRAB BAR, SEAT OR MOUNTED DEVICE.
2. INFORMATION SHOWN IS TO ILLUSTRATE GENERAL ACCESSIBILITY REQUIREMENTS. SEE SPECIFIC PLANS & INTERIOR ELEVATIONS FOR REQUIRED DIMENSIONS, STYLES, AND MATERIALS.

A NEW APARTMENT COMMUNITY AT:

DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

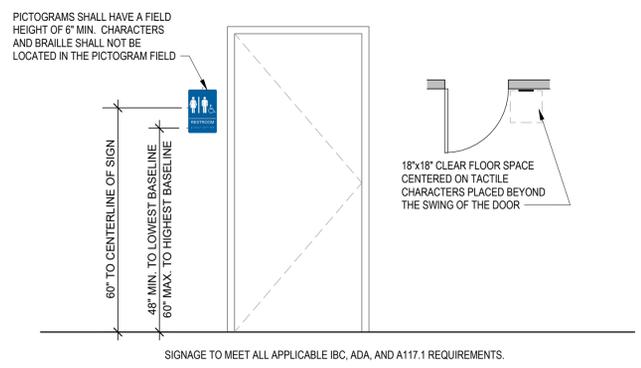
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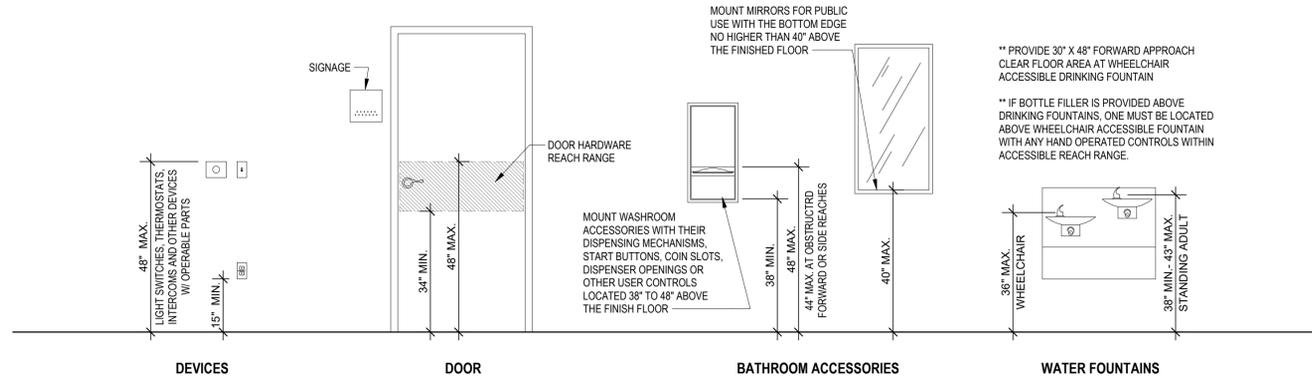
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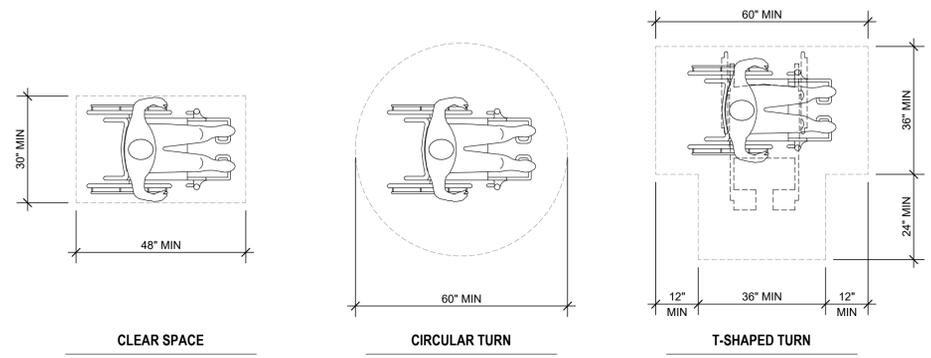
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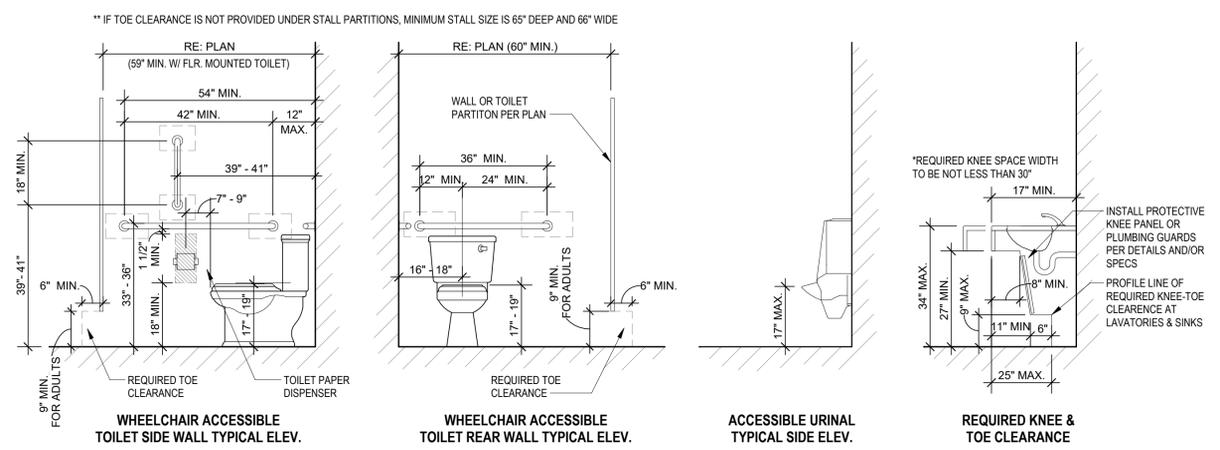
GENERAL SIGNAGE



TYPICAL ACCESSIBLE MOUNTING HEIGHTS FOR UNOBSTRUCTED FORWARD REACH



TURNING AND CLEAR FLOOR SPACES



GRAB BARS AND CLEARANCES FOR PUBLIC RESTROOMS

A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

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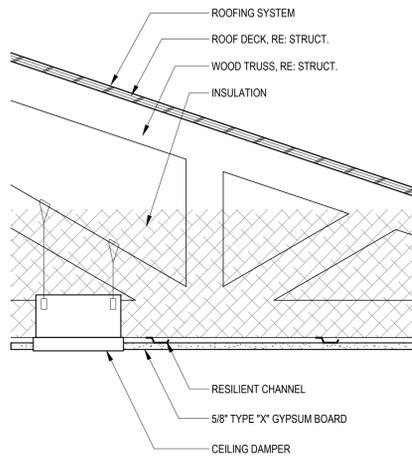
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COMMON AREA
ACCESSIBILITY INFO
SHEET NO.

A0.22



ASSEMBLY GENERAL NOTES:

- A. SEE THE UL ASSEMBLIES IN THE SPECIFICATIONS FOR ADDITIONAL INFO AND REQUIREMENTS.
- B. SEE CODE ANALYSIS SHEETS A0.02 AND A0.03 FOR LOCATIONS OF FIRE PARTITIONS, BARRIERS, WALLS, SMOKE PARTITIONS, ETC. THESE LOCATIONS SHALL COMPLY WITH THE UL DESIGN ASSEMBLY AS INDICATED BY THE PARTITION TYPE, INCLUDING THE APPLICATION OF SEALANT AT THE PERIMETER OF THE PARTITION.
- C. REPORT ANY DISCREPANCIES BETWEEN WITH CODE ANALYSIS SHEETS AND ARCHITECTURAL PLANS TO THE ARCHITECT PRIOR TO CONSTRUCTION.
- D. SEE STRUCT DWGS FOR ADDITIONAL INFO AND REQUIREMENTS. IF THERE ARE DISCREPANCIES BETWEEN THE UL ASSEMBLIES AND THE STRUCT DWGS, THE MOST RESTRICTIVE REQUIREMENTS FOR MINIMUMS AND MAXIMUMS SHALL APPLY.
- E. AT ALL LOCATIONS WHERE FIRE RATED PARTITIONS ABUT OR ATTACH TO A FIRE RATED STRUCTURAL MEMBER THE FIRE RATING OF BOTH THE PARTITION AND THE STRUCTURAL MEMBER SHALL BE MAINTAINED.
- F. SOUND CONTROL BATT INSULATION TO BE INSTALLED AT:
 1. BOTH SIDES OF DOUBLE STUD WALLS OF PARTITIONS SEPARATING APARTMENT UNITS
 2. WALLS AND FLOOR/CEILING ASSEMBLIES SEPARATING APARTMENTS FROM CORRIDORS AND ALL OTHER SPACES
 3. ANY ADDITIONAL WALLS AND CEILINGS INDICATED TO RECEIVE ACOUSTICAL BATT INSULATION
- G. PROVIDE CONTROL JOINTS IN ACCORDANCE WITH GA-216 IN ALL FULL HEIGHT GYPSUM BOARD PARTITIONS AND CEILINGS AT 30'-0" O.C. MAX. VERIFY FINAL LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
- H. CONTROL JOINTS AND EXPANSION JOINTS IN FIRE RATED PARTITIONS SHALL BE CONSTRUCTED TO MAINTAIN THE FIRE RATING OF THE PARTITION. CONTROL JOINTS AND EXPANSION JOINTS IN NON-RATED PARTITIONS SHALL BE CONSTRUCTED WITH SOUND ATTENUATION BLANKET MATERIAL WITHIN THE JOINT TO REDUCE SOUND TRANSMISSION.
- I. WHERE ITEMS ARE RECESSED INTO A FIRE RATED PARTITION PROVIDE ADDITIONAL GYPSUM, FIREPROOFING, OR FIRE STOPPING AROUND THE RECESSED PORTION OF THE ITEM AS REQUIRED TO MAINTAIN THE INDICATED FIRE RATING.
- J. PER IBC SECTION 703.7 - FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING IN CONCEALED SPACES. SUCH IDENTIFICATION SHALL:
 1. BE LOCATED WITHIN 15 FEET OF THE END OF EACH WALL AND AT INTERVALS NOT EXCEEDING 30 FEET MEASURED HORIZONTALLY ALONG THE WALL OR PARTITION.
 2. INCLUDE LETTERING NOT LESS THAN 3" IN HEIGHT WITH A MINIMUM 3/8" STROKE IN A CONTRASTING COLOR, INCORPORATING THE SUGGESTED WORDING: "FIRE AND/OR SMOKE BARRIER-PROTECT ALL OPENINGS," OR OTHER WORDING.



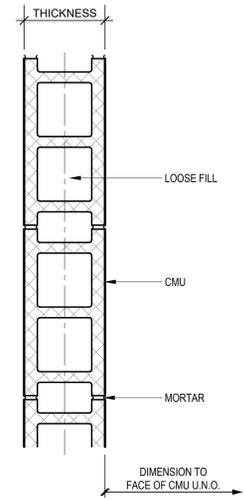
ASSEMBLY INFORMATION

IDENTIFICATION	N
FRAMING	WOOD TRUSS
THICKNESS	VARIES
FIRE RATING	1 HR
FIRE TEST NUMBER	UL P556
ACOUSTICAL RATING	--
ACOUSTICAL TEST NUMBER	--

ASSEMBLY NOTES

A. ...

N 1-HR ROOF/CEILING ASSEMBLY
1 1/2" = 1'-0"



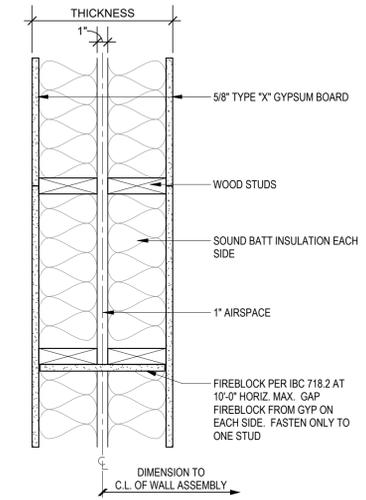
WALL ASSEMBLY INFORMATION

IDENTIFICATION	K	
STUD SIZE	N/A	--
THICKNESS	7 5/8"	--
FIRE RATING	0 HR	--
FIRE TEST NUMBER	--	--
ACOUSTICAL RATING	--	--
ACOUSTICAL TEST NUMBER	--	--

ASSEMBLY NOTES

A. ...

K 0-HR EXT. CMU WALL
1 1/2" = 1'-0"
TYPICAL AT TRASH ENCLOSURE



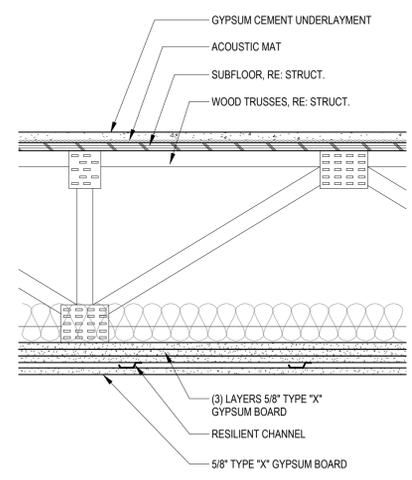
WALL ASSEMBLY INFORMATION

IDENTIFICATION	F	
STUD SIZE	2x4	--
THICKNESS	9 1/4"	--
FIRE RATING	1 HR	--
FIRE TEST NUMBER	UL U341	--
ACOUSTICAL RATING	STC 55	--
ACOUSTICAL TEST NUMBER	RAL TL11-160	--

ASSEMBLY NOTES

A. PROVIDE WATER RESISTANT GYPSUM BOARD AT WET LOCATIONS.

F 1-HR INT. WOOD STUD DEMISING WALL
1 1/2" = 1'-0"
TYPICAL AT UNIT DEMISING WALLS



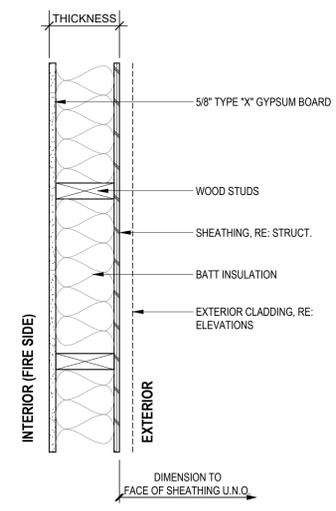
ASSEMBLY INFORMATION

IDENTIFICATION	M
FRAMING	WOOD TRUSS
THICKNESS	--
FIRE RATING	2 HR
FIRE TEST NUMBER	UL L556
ACOUSTICAL RATING	--
ACOUSTICAL TEST NUMBER	--

ASSEMBLY NOTES

A. ...

M 2-HR FLOOR/CEILING ASSEMBLY
1 1/2" = 1'-0"



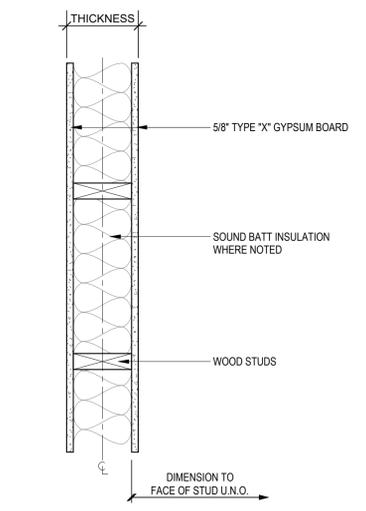
WALL ASSEMBLY INFORMATION

IDENTIFICATION	J	
STUD SIZE	2x6	--
THICKNESS	6 5/8"	--
FIRE RATING	1 HR	--
FIRE TEST NUMBER	UL U356	--
ACOUSTICAL RATING	--	--
ACOUSTICAL TEST NUMBER	--	--

ASSEMBLY NOTES

A. PROVIDE WATER RESISTANT GYPSUM BOARD AT WET LOCATIONS.

J 1-HR EXT. WOOD STUD WALL
1 1/2" = 1'-0"
TYPICAL AT EXTERIOR WALLS



WALL ASSEMBLY INFORMATION

IDENTIFICATION	B	
STUD SIZE	2x4	2x6
THICKNESS	4 3/4"	6 3/4"
FIRE RATING	1 HR	1 HR
FIRE TEST NUMBER	UL U305	UL U305
ACOUSTICAL RATING	--	--
ACOUSTICAL TEST NUMBER	--	--

ASSEMBLY NOTES

A. PROVIDE WATER RESISTANT GYPSUM BOARD AT WET LOCATIONS.

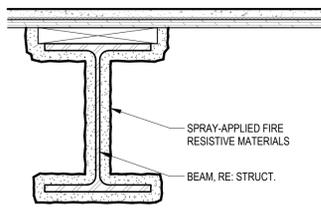
B 1-HR INT. WOOD STUD WALL
1 1/2" = 1'-0"
SEE BUILDING PLANS FOR LOCATIONS

ASSEMBLY INFORMATION

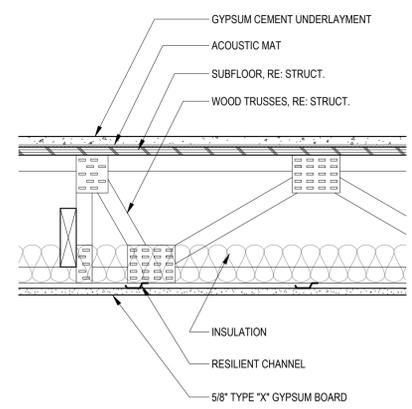
IDENTIFICATION	P	
FRAMING	STEEL BEAM	
THICKNESS	VARIES	
FIRE RATING	1 HR	
FIRE TEST NUMBER	UL N743	
ACOUSTICAL RATING	--	
ACOUSTICAL TEST NUMBER	--	

ASSEMBLY NOTES

- A. REFER TO MANUFACTURER INSTRUCTIONS TO DEVELOP REQUIRED RATING.
- B. BASED ON UL N743 & x790



P COLUMN ASSEMBLY
1 1/2" = 1'-0"



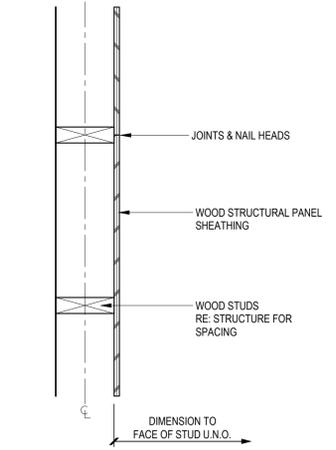
ASSEMBLY INFORMATION

IDENTIFICATION	L
FRAMING	WOOD TRUSS
THICKNESS	--
FIRE RATING	1 HR
FIRE TEST NUMBER	UL L528
ACOUSTICAL RATING	--
ACOUSTICAL TEST NUMBER	--

ASSEMBLY NOTES

A. ...

L 1-HR FLOOR/CEILING ASSEMBLY
1 1/2" = 1'-0"



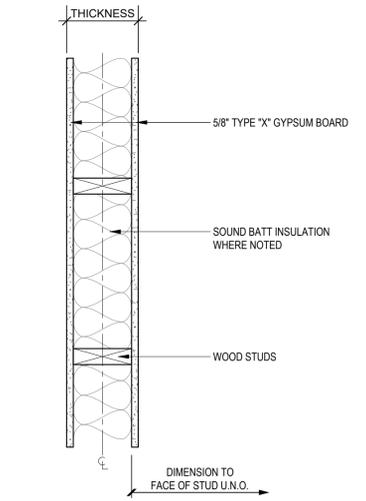
WALL ASSEMBLY INFORMATION

IDENTIFICATION	G	
STUD SIZE	--	2x6
THICKNESS	--	6"
FIRE RATING	--	0 HR
FIRE TEST NUMBER	--	--
ACOUSTICAL RATING	--	--
ACOUSTICAL TEST NUMBER	--	--

ASSEMBLY NOTES

A. ...

G 0-HR INT. WOOD STUD WALL - DETACHED GARAGE
1 1/2" = 1'-0"
SEE BUILDING PLANS FOR LOCATIONS



WALL ASSEMBLY INFORMATION

IDENTIFICATION	A	
STUD SIZE	2x4	2x6
THICKNESS	4 3/4"	6 3/4"
FIRE RATING	0 HR	0 HR
FIRE TEST NUMBER	--	--
ACOUSTICAL RATING	--	--
ACOUSTICAL TEST NUMBER	--	--

ASSEMBLY NOTES

A. PROVIDE WATER RESISTANT GYPSUM BOARD AT WET LOCATIONS.

A 0-HR INT. WOOD STUD WALL
1 1/2" = 1'-0"
SEE BUILDING PLANS FOR LOCATIONS

NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
• 02/23/24 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS

JOB NO. 740623
DRAWN BY SW EM KN
CD SET/PERMIT

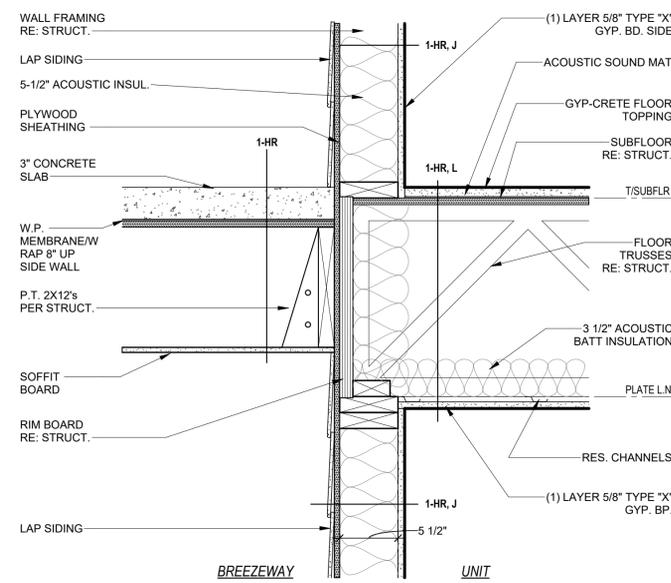
SHEET NAME RATED ASSEMBLIES

SHEET NO. **A0.30**

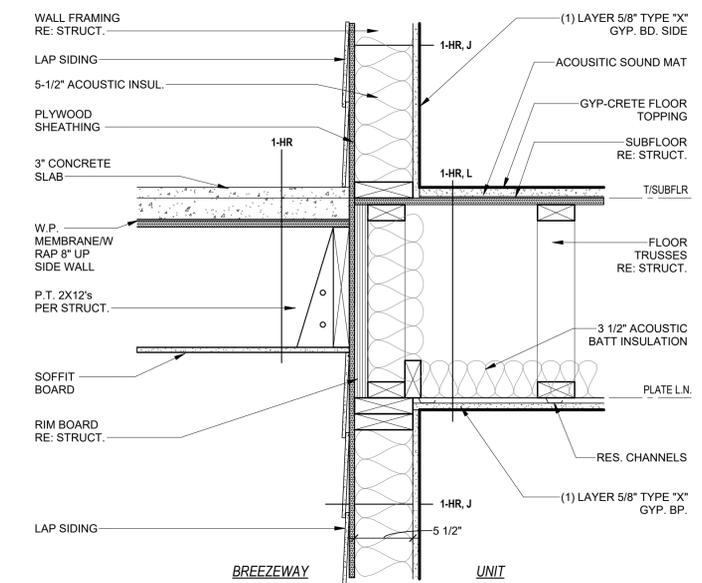
DATE 04.19.24



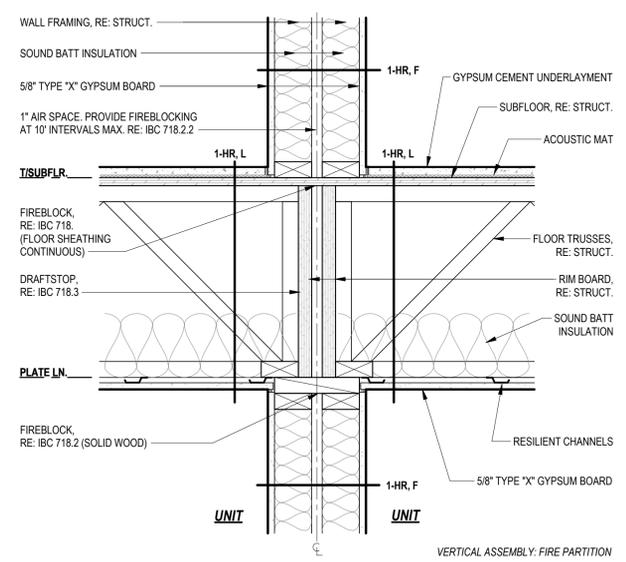
- FLOOR/WALL DETAIL GENERAL NOTES:**
- A. DETAILS SHOWN DEPICT GENERAL CONDITIONS. REFER TO STRUCTURAL DRAWINGS FOR ACTUAL FRAMING CONDITIONS.
 - B. SEE CODE ANALYSIS SHEETS A0.02 AND A0.03 FOR LOCATIONS OF FIRE PARTITIONS, BARRIERS, WALLS, SMOKE PARTITIONS, ETC.
 - C. FIREBLOCKING - REFER TO 2018 IBC SECTION 718.2.1 FOR ALLOWABLE MATERIALS.
 - D. DRAFTSTOPPING - REFER TO 2018 IBC SECTION 718.3.1 FOR ALLOWABLE MATERIALS.



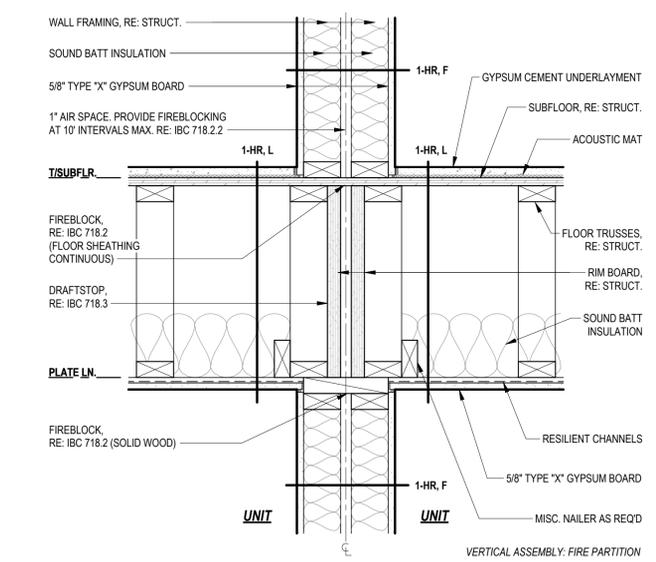
4 BREEZEWAY/UNIT SEPARATION WALL - PERP. TRUSSES
1 1/2" = 1'-0"



3 BREEZEWAY/UNIT SEPARATION WALL - PAR. TRUSSES
1 1/2" = 1'-0"



2 UNIT/UNIT SEPARATION WALL - PERP. TRUSSES
1 1/2" = 1'-0"



1 UNIT/UNIT SEPARATION WALL - PARALLEL TRUSSES
1 1/2" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
• 02/23/24 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS

JOB NO. 740623 DATE 04.19.24
DRAWN BY SW EM KN
CD SET/PERMIT

SHEET NAME FLOOR/WALL DETAILS

SHEET NO. **A0.40**



System No. W-L-8003
(Formerly System No. 633)
F Ratings — 1 and 2 Hr (See Item 1B)
T Rating — 0 Hr
L Rating At Ambient — 9 CFM/sq ft
L Rating At 400 F — Less Than 1 CFM/sq ft

- Wall Assembly** — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the Individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs** — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. In 2 hr fire-rated assemblies, steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC. In 1 hr fire-rated assemblies, steel studs to be min 3-5/8 in. wide and spaced 24 in. OC. Additional studs shall be installed horizontally in such a manner to form a nom 22-3/4 in. wide by 6 in. high opening.
 - Gypsum Board** — 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the Individual U300 or U400 Series Design in the UL Fire Resistance Directory. If the through penetrants are installed in a wood stud/gypsum board assembly, the max area of opening is 87 sq. in. with max dimension of 14-1/2 in.
- The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.**
- Through Penetrants** — Four pipes, conduits or tubing to be installed within the opening. The space between pipes, conduits or tubing shall be a nom 1-7/8 in. The space between pipes, conduits or tubing and periphery of opening shall be min 5/8 in. to max 1-15/16 in. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of pipes, conduits or tubing may be used:
 - Steel Pipe** — Nom 3 in. diam (or smaller) Schedule 5 (or heavier) steel pipe.
 - Iron Pipe** — Nom 2 in. diam (or smaller) cast or ductile iron pipe.
 - Conduit** — Nom 3 in. diam (or smaller) steel electrical metallic tubing or steel conduit.
 - Copper Tubing** — Nom 2 in. diam (or smaller) Type L (or heavier) copper tubing.
 - Copper Pipe** — Nom 2 in. diam (or smaller) Regular (or heavier) copper pipe.
 - Polyvinyl Chloride (PVC) Pipe** — Nom 2 in. diam (or smaller) Schedule 40 PVC pipe for use in closed (process or supply) piping system.
- Pipe Coverings** — One of the following types of pipe coverings shall be used:
 - Pipe and Equipment Covering — Materials** — Nom 1 in. thick hollow cylindrical heavy density (min 3.5 pcf) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lip tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. The pipe covering may be installed on one of the metallic pipes or tubing having a nom diam of 2 in. or less. The insulated pipe or tubing shall be spaced a nom 1-7/8 in. from the other through-penetrants. The annular space between the insulated through penetrant and periphery of the opening shall be a nom 1 in.

See Pipe and Equipment Covering Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering materials used shall also specify specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
 - Pipe Covering Materials** — Nom 1 in. thick unfaced mineral fiber pipe insulation sized to the outside diam of pipe or tube. Pipe insulation secured with min 8 AWG steel wire spaced max 12 in. OC. The insulated pipe or tubing shall be spaced a nom 1-7/8 in. from the other through-penetrants. The annular space between the insulated through penetrant and periphery of opening shall be a nom 1 in.

OWENS CORNING HT INC, DIV OF OWENS CORNING — High Temperature Pipe Insulation 1200, High Temperature Pipe Insulation BWT or High Temperature Pipe Insulation Thermatec.
(System No. W-L-8003 Continued)

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Created or Revised: 03/25/03
Specified Technologies, Inc., Somerville, NJ (800) 992-1180 FOD-3182

System No. W-L-3024
F Ratings — 1 and 2 Hr (See Items 2 and 2A)
T Ratings — 0, 1/2, 1 and 2 Hr (See Items 2 and 2A)
L Rating At Ambient — Less Than 1 CFM/sq ft
L Rating At 400 F — Less Than 1 CFM/sq ft

- Wall Assembly** — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the Individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs** — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.
 - Gypsum Board** — 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the Individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 2-1/2 in.
- The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.**
- Cables** — One cable to be installed either concentrically or eccentricity within the firestop system. The annular space within the firestop system shall be a min 0 in. (point contact) to a max 1/4 in. Cable to be rigidly supported on both sides of wall assembly. The following types and sizes of cables may be used:
 - Max 200 pair No. 24 AWG (or smaller) copper conductor cable with polyvinyl chloride (PVC) jacketing and insulation. **When 200 pair No. 24 AWG telephone cable is used, F Rating is 0 hr. When 50 pair No. 24 AWG telephone cable is used, T Rating is equal to the F Rating of the firestop system.**
 - Max 3/C No. 2/0 AWG (or smaller) aluminum conductor service entrance cable with PVC insulation and jacketing. **When service entrance cable is used, the T Rating is equal to the F Rating of the firestop system.**
 - Max 1/C-750 kcmil copper conductor power cable with cross-linked polyethylene (XLPE) insulation and jacketing. **When 1/C-750 kcmil cable is used, the T Rating is equal to the F Rating of the firestop system.**
 - Max 3/C No. 6 AWG (or smaller) PVC insulated and jacketed nonmetallic sheathed (Romex) cable. **When Romex is used, the T Rating is equal to the F Rating of the firestop system.**
 - Max RG59/U (or smaller) coaxial cable with fluorinated ethylene insulation and jacketing. **When coaxial cable is used, the T Rating is equal to the F Rating of the firestop system.**
 - Max 62.5/125 micron fiber optic cable with PVC insulation and jacketing. **When fiber optic cable is used, the T Rating is equal to the F Rating of the firestop system.**
 - Max 4 pair No. 24 AWG (or smaller) copper conductor data cable with Hylar insulation and jacketing. **When data cable is used, the T Rating is equal to the F Rating of the firestop system.**
- Through-Penetrating Product** — As an alternate to Item 2, max one through-penetrating product to be installed either concentrically or eccentricity within the firestop system. Through-penetrating product to be rigidly supported on both sides of wall assembly. The following types of through-penetrating products may be used:
 - Max four copper conductors No. 4/0 AWG (or smaller) aluminum or steel **Armored Cable+ or Metal-Clad Cable+.** **When armored or metal-clad cable is used, the T Rating is 1/2 hr.**
AFC CABLE SYSTEMS INC.

(System No. W-L-3024 Continued)

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Created or Revised: 08/06/03
Specified Technologies, Inc., Somerville, NJ (800) 992-1180 FOD-3170

System No. F-C-3013
November 19, 1999
F Ratings — 1 and 2 Hr (See Item 2A)
T Ratings — 3/4, 1 and 2 Hr (See Item 2A)
L Rating At Ambient — Less Than 1 CFM/sq ft
L Rating at 400 F — Less than 1 CFM/sq ft

- Floor-Ceiling Assembly** — The 1 hr fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the Individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The 2 hr fire-rated wood joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in Design Nos. L505, L511 or L513 in the UL Fire Resistance Directory. The general construction features of the floor-ceiling assembly are summarized below:
 - Flooring System** — Lumber or plywood subfloor with finish floor of lumber, plywood or **Floor Topping Mixture+** as specified in the individual Floor-Ceiling Design. Max diam of floor opening is 2 in.
 - Wood Joists** — For 1 hr fire-rated floor-ceiling assemblies nom 10 in. deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or **Structural Wood Members+** with bridging as required and with ends freestopped. For 2 hr fire-rated floor-ceiling assemblies, nom 2 by 10 in. lumber joists spaced 16 in. OC with nom 1 by 3 in. lumber bridging and with ends freestopped.
 - Furring Channels** — (Not Shown) — In 2 hr fire-rated assemblies, resilient galv steel furring installed perpendicular to wood joists between first and second layers of wallboard (Item 1D). Furring channels spaced max 24 in. OC. In 1 hr fire-rated assemblies, resilient galv steel furring installed perpendicular to wood joists between wallboard and wood joists as specified in the individual Floor-Ceiling Design. Furring channels spaced max 24 in. OC.
 - Gypsum Board** — Nom 4 ft wide by 5/8 in. thick as specified in the individual Floor-Ceiling Design. First layer of wallboard secured to wood joists or furring channels as specified in the individual Floor-Ceiling Design. Second layer of wallboard (2 hr fire-rated assembly) screw-attached to furring channels as specified in the individual Floor-Ceiling Design. Max diam of ceiling opening is 2 in.
- Chase Wall** — (Not Shown, Optional) — The through penetrants (Item 2) may be routed through a fire-rated single, double or staggered wood stud/gypsum wallboard chase wall having a fire rating consistent with that of the floor-ceiling assembly. The chase wall shall be constructed of the materials and in the manner specified in the Individual U300 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs** — Nom 2 by 6 in. or double nom 2 by 4 in. lumber studs.
 - Soie Plate** — Nom 2 by 6 in. or parallel 2 by 4 in. lumber plates, tightly butted.
 - Top Plate** — The double top plate shall consist of two nom 2 by 6 in. or two sets of parallel 2 by 4 in. lumber plates, tightly butted. Max diam of openings is 2 in.
 - Gypsum Board** — Thickness, type, number of layers and fasteners shall be as specified in individual Wall and Partition Design.
- Cables** — One or more cables to be installed either concentrically or eccentricity within the firestop system. Cable(s) to be installed approximately midway between wood joist. Diam of openings hole-sawed through flooring system and through gypsum wallboard ceiling to be min 3/8 in. larger than the outside diam of cable or cable bundle. The annular space within the firestop system shall be a min 0 in. (point contact) to a max 1-1/4 in. Cables to be rigidly supported on both sides of floor-ceiling assembly. The following types and sizes of cables may be used:
 - Max 100 pair No. 24 AWG (or smaller) copper conductor telephone cables with polyvinyl chloride (PVC) insulation and jacket materials.
 - Max 3/C (with ground) No. 2/0 (or smaller) AWG aluminum conductor service entrance cable with PVC insulation and jacket materials.
 - Max 3/C (with ground) No. 12 AWG (or smaller) copper conductor nonmetallic sheathed (Romex) cable with PVC insulation and jacket materials.

The number of cables allowed within the opening is dependent upon the type and size of cable as tabulated in Item 2A.
(System No. F-C-3013 Continued)

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Specified Technologies, Inc., Somerville, NJ (800) 992-1180 FOD-3109

(System No. W-L-8003 Continued)

- Sheathing Material** — (Not shown) — Used in conjunction with Item 3B, full-solite-kraft or all service jacket material shall be wrapped around the outer circumference of the pipe insulation (Item 3B) with the kraft side exposed. Longitudinal joints and transverse joints sealed with metal fasteners or butt tape.

See Sheathing Materials (BRDV) category in the Building Materials Directory for names of manufacturers. Any sheathing material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
- Cables** — Max six cables to be installed within the firestop system. Cables to be spaced 1-1/2 in. from the through-penetrants. The space between the cables and periphery of opening shall range from a min 1 in. to a max 2-7/8 in. Cables to be tightly bundled together and rigidly supported on both surfaces of wall.

Any combination of the following types and sizes of copper conductor cables may be used:

 - Max 25 pair No. 24 AWG (or smaller) telephone cables with polyvinyl chloride (PVC) insulation and jacket.
 - Max 3/C (with ground) — No. 10 AWG (or smaller) nonmetallic sheathed (Romex) cable with PVC insulation and jacket.
 - Max 4 pair No. 18 AWG (or smaller) thermostat cables with PVC insulation and jacket.
- Firestop System** — The firestop system shall consist of the following:
 - Packing Material** — In 2 hr fire-rated assemblies, min 2-1/2 in. thickness of min 6 pcf mineral wool batt insulation firmly packed into opening as a permanent form. In 1 hr fire-rated assemblies, min 2-1/4 in. thickness of mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from both surfaces of wall as required to accommodate the required thickness of fill material.
 - Fill, Void or Cavity Material** — **Caulk** — Min 1-1/4 in. thickness of fill material applied within the annulus, on both surfaces of wall. Caulk to be forced into interstices of cable group to max extent possible. Additional caulk to be installed such that a min 1 in. is applied beyond periphery of the opening.
SPECIFIED TECHNOLOGIES INC — SpecSeal 100, 101, 102 or 105 Sealant

*Bearing the UL Classification Mark

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Created or Revised: 03/25/03
Specified Technologies, Inc., Somerville, NJ (800) 992-1180 FOD-3182

(System No. W-L-3024 Continued)

- Two or more twisted copper conductors No. 6 AWG (or smaller) **Power Limited Circuit Cable+** with or without a jacket under a metal armor. **When Power Limited Circuit Cable+ is used, the T Rating is 1/2 hr.**
AFC CABLE SYSTEMS INC.
- Two or more twisted copper conductors No. 10 AWG (or smaller) **Power Limited Fire Alarm Cable+** with or without a jacket under a metal armor. **When Power Limited Fire Alarm Cable+ is used, the T Rating is equal to the F Rating of the firestop system.**
AFC CABLE SYSTEMS INC.
- Two or more twisted copper conductors No. 12 AWG (or smaller) **Non Power Limited Fire Alarm Cable+** with or without a jacket under a metal armor. **When Non Power Limited Fire Alarm Cable+ is used, the T Rating is equal to the F Rating of the firestop system.**
AFC CABLE SYSTEMS INC.

- Fill Void or Cavity Material** — **Sealant or Putty** — Min 5/8 in. thickness of fill material installed within annulus, flush with both surfaces of wall assembly. Additional fill material installed such that a min 1/4 in. diam crown is formed around the through-penetrant on both sides of the wall.
SPECIFIED TECHNOLOGIES INC — SpecSeal Series 100 Sealant or SpecSeal Putty

*Bearing the UL Classification Marking
+Bearing the UL Listing Mark

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Specified Technologies, Inc., Somerville, NJ (800) 992-1180 FOD-3102

(System No. F-C-3013 Continued)

- Through Penetrating Product** — (Not Shown) — As an alternate to Item 2, max 4/C No. 2/0 AWG (or smaller) aluminum or steel **Armored Cable+ or Metal-Clad Cable+** with copper conductors. Max one armored cable or metal-clad cable to be installed either concentrically or eccentricity within the firestop system. One cable to be installed approximately midway between wood joist. Diam of openings hole-sawed through flooring system and through gypsum wallboard ceiling to be min 3/8 in. larger than the outside diam of cable. The annular space within the firestop system shall be a min 0 in. (point contact) to a max 1-1/4 in. Through-penetrating product to be rigidly supported on both sides of a floor-ceiling assembly.
AFC CABLE SYSTEMS INC.

The F and T Ratings of the firestop system are dependent upon the hourly rating of the floor-ceiling and type and number of through penetrants, as tabulated below:

Rating of Assembly Hr	Type of Through Penetrant	Max No. of Penetrations	F Rating, Hr	T Rating, Hr
1	Telephone Cable	1	2	2
2	Service Entrance Cable	1	1	1
1	Armored Cable	1	1	3/4
1	Romex Cable	7	1	3/4
1	Metal Clad Cable	1	1	3/4

- Fill, Void or Cavity Material** — **Sealant** — On top surface of floor, min 3/4 in. thickness of fill material applied within annulus, flush with top surface of floor. On bottom surface of ceiling, min 5/8 in. thickness of fill material applied within annulus, flush with bottom surface of ceiling or lower top plate of chase wall assembly. Additional fill material to be installed such that a min 1/8 in. crown is formed around the penetrating item on bottom surface of ceiling or lower top plate of chase wall assembly. On both top and bottom of assembly, fill material forced into interstices of cable group to max extent possible.
SPECIFIED TECHNOLOGIES INC — SpecSeal 100, 101, 102 or 105 Sealant

*Bearing the UL Classification Marking

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Specified Technologies, Inc., Somerville, NJ (800) 992-1180 FOD-3109

A NEW APARTMENT COMMUNITY AT:
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LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
• 03/23/24 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS

JOB NO. DATE
740623 04.19.24
DRAWN BY
SW EM KN
CD SET/PERMIT

SHEET NAME
PENETRATION DETAILS

SHEET NO.
A0.41



System No. W-L-1101
January 08, 1997
F Ratings — 1 and 2 Hr (See Item 1)
T Rating — 0 Hr

- Wall Assembly** — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs** — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 3-5/8 in. wide and spaced max 24 in. OC.
 - Gypsum Board** — 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 9 in.
- The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
 - Through Penetrants** — One metallic pipe or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:
 - Steel Pipe** — Nom 4 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - Iron Pipe** — Nom 4 in. diam (or smaller) cast or ductile iron pipe.
 - Copper Tubing** — Nom 4 in. diam (or smaller) type L (or heavier) copper tube.
 - Copper Pipe** — Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe.
 - Firestop System** — The firestop system shall consist of the following:
 - Pipe and Equipment Covering Materials*** — Max 2 in. thick hollow cylindrical heavy density (min 3.5 pcf) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Pipe covering to be wrapped around the through penetrant and extend a min 2-1/2 in. beyond both surfaces of the wall. The annular space between pipe covering and the edge of the through opening shall be min 0 in. (continuous point contact) to max 1/2 in.
 - See Pipe and Equipment Covering — Materials** (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
 - Fill Void or Cavity Material — Sealant** — Min 5/8 in. thickness of fill material applied within annulus, flush with both surfaces of wall. A min 1/4 in. crown of fill material shall be applied to the pipe covering/gypsum wallboard interface at the point contact location and lapping 1/4 in. beyond the periphery of the opening on both sides of the wall.
 - SPECIFIED TECHNOLOGIES INC** — SpecSeal 100, 101, 102 and 105 Sealant

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System No. W-L-2079
January 11, 1995
F Ratings — 1 and 2 Hr (See Item 1B)
T Rating — 0 Hr
L Rating At Ambient — 1 CFM/sq ft
L Rating At 400 F — Less Than 1 CFM/sq ft

- Wall Assembly** — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs** — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.
 - Gypsum Board** — 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 10 in.
- The hourly F rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
 - Through Penetrant** — One nonmetallic pipe to be centered within the firestop system. A nom annular space of 1/16 in. is required within the firestop system. Pipe to be rigidly supported on both sides of the wall assembly. The following types and sizes of nonmetallic pipes may be used:
 - Polyvinyl Chloride (PVC) Pipe** — Nom 8 in. diam (or smaller) Schedule 40 PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 - Flame Retardant Polypropylene (FRPP) Pipe** — Nom 8 in. diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 - Chlorinated Polyvinyl Chloride (CPVC) Pipe** — Nom 8 in. diam (or smaller) SDR 17 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 - Firestop System** — The firestop system shall consist of the following:
 - Packing Material** — Min 4 pcf mineral wool insulation cut to size to fill the annulus within the opening and stud cavity. Mineral wool insulation wrapped around the outer circumference of the through penetrant and secured together by means of No. 24 AWC steel tie wire. Mineral wool insulation slid into annulus of opening and recessed from both surfaces of wall to accommodate the required thickness of fill material.
 - Fill Void or Cavity Material — Sealant** — Min 1/2 in. thickness of fill material applied within the annulus, flush with both surfaces of wall.
 - SPECIFIED TECHNOLOGIES INC** — SpecSeal 100, 101 or 105 Sealant
 - Aluminum Foil Tape** (Not Shown) — Nom 3 mil thick pressure sensitive aluminum foil tape wrapped around the outer circumference of the through penetrant with a 1 in. wide overlap along its perimeter joint. Foil tape shall abut against both surfaces of the wall and extend a min. beyond both surfaces of the wall.
 - Fill Void or Cavity Material — Wrap Strip** — Nom 3/16 in. thick intumescent material faced on both sides with a plastic film, supplied in 2 in. wide strips. Two stacks of wrap strips, each consisting of four wrap strips are individually wrapped around the through penetrant with tie rods and held in place with masking tape. Butted ends in successive layers may be aligned or offset. The edge of the wrap strips shall abut each surface of the wall. Two stacks of wrap strips are installed on each side of the wall.
 - SPECIFIED TECHNOLOGIES INC** — SpecSeal BLU Wrap Strip
 - Steel Collar** — Collar fabricated from coils of product 0.029 in. thick (No. 22 MSG) galv steel sheet available from wrap strip manufacturer. Collar shall be nom 4 in. deep with min str 1 in. wide by 2 in. long anchor tabs for securement to the wall. Retainer tabs, 3/4 in. wide tapering down to 3/8 in. wide and located opposite the anchor tabs, are folded 90 degrees toward through penetrant surface to maintain the annular space around the pipe and to retain the wrap strips. Steel collar wrapped around wrap strips and through penetrant with 1 in. wide overlap along its perimeter joint. Steel collar tightened around wrap strips and through penetrant using min 1/2 in. wide by 0.029 in. thick stainless steel hose clamp spaced 2 in. OC. Collar secured to wall with 1/8 in. diam by min 1-3/4 in. long steel Molly bolts in conjunction with min 1/4 in. by 1-1/4 in. diam steel fender washers. Steel collars are installed on each side of wall.

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System No. W-L-2029
February 04, 1995
(Formerly System No. 533)
F Ratings — 1 and 2 Hr (See Items 1 and 3B)
T Ratings — 1, 1-1/2 and 2 Hr (See Item 3B)
L Rating At Ambient — 1 CFM/sq ft
L Rating At 400 F — Less Than 1 CFM/sq ft

- Wall Assembly** — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 and U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs** — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.
 - Gypsum Board** — 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 5 in.
- The hourly F rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
 - Through Penetrants** — One nonmetallic pipe or conduit to be centered within the firestop system. A nom annular space of 1/4 in. is required within the firestop system. Pipe or conduit to be rigidly supported on both sides of the wall assembly. The following types and sizes of nonmetallic pipes or conduits may be used:
 - Polyvinyl Chloride (PVC) Pipe** — Nom 4 in. diam (or smaller) Schedule 40 solid or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
 - Rigid Nonmetallic Conduit** — Nom 4 in. diam (or smaller) Schedule 40 or 80 PVC conduit installed in accordance with Article 347 of the National Electrical Code (NECA No. 70).
 - Chlorinated Polyvinyl Chloride (CPVC) Pipe** — Nom 4 in. diam (or smaller) SDR17 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 - Acrylonitrile Butadiene Styrene (ABS) Pipe** — Nom 4 in. diam (or smaller) Schedule 40 solid or foamed core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 - Fire Retardant Polypropylene (FRPP) Pipe** — Nom 4 in. diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 - Firestop System** — The firestop system shall consist of the following:
 - Fill Void or Cavity Material — Caulk** — Caulk forced into annular space to max extent possible. Caulk shall be installed flush with both surfaces of wall assembly.
 - SPECIFIED TECHNOLOGIES INC** — SpecSeal 100, 101 or 105 Sealant
 - Firestop Device** — Galv steel collar lined with intumescent material sized to fit the specific diam of the through penetrant. Device shall be installed around through penetrant in accordance with accompanying installation instructions. Device incorporates anchor tabs for securement to each surface of wall assembly by means of 1/8 in. diam by 1-3/4 in. long Molly bolts in conjunction with 1/4 in. diam by 1-1/2 in. steel fender washers.

The F and T Rating of the firestop system is dependent upon the fire rating of the wall and size of the firestop device as tabulated below:

Fire Rating of Wall, Hr	Nom Device Size, in.	F Rating, Hr	T Rating, Hr
2	1-1/2	2	1-1/2
2	2	2	2
2	2-1/2	2	1-1/2
2	3	2	1
2	3-1/2	2	1
1	4	2	1
1	4	1	2

SPECIFIED TECHNOLOGIES INC — SpecSeal Firestop Collar
*Bearing the UL Classification Marking

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System No. F-C-8004
December 16, 1997
F Rating — 1 Hr
T Rating — 1 Hr

- Floor-Ceiling Assembly** — The 1 hr fire-rated solid or tussled lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory, as summarized below:
 - Flooring System** — Lumber or plywood subfloor with finish floor of lumber, plywood or **Floor Topping Mixture*** as specified in the individual Floor-Ceiling Design. Max diam of floor opening is 2 in.
 - Wood Joists** — Nom 2 by 10 in. lumber joists spaced 16 in. OC with nom 1 by 3 in. lumber bridging and with ends firestopped. As an alternate to lumber joists, nom 10 in. deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or **Structural Wood Members*** with bridging as required with ends firestopped.
 - Furring Channels** — (Not Shown) — Resilient galv steel furring installed perpendicular to wood joists (item 1B) between wallboard (item 10) and wood joists or furring channels as required in the individual Floor-Ceiling Design.
 - Gypsum Board** — Nom 4 ft wide by 5/8 in. thick as specified in the individual Floor-Ceiling Design. Wallboard secured to wood joists or furring channels as specified in the individual Floor-Ceiling Design. Max diam of ceiling opening is 2 in.
- Chase Wall** — The through penetrant (item 3) shall be routed through a 1 hr fire-rated single, double or staggered wood stud/gypsum wallboard chase wall constructed of the materials and in the manner specified in the individual U300 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs** — Nom 2 by 6 in. or double nom 2 by 4 in. lumber studs.
 - Soie Plate** — Nom 2 by 6 in. or parallel 2 by 4 in. lumber plates, tightly butted.
 - Top Plate** — The double top plate shall consist of two nom 2 by 6 in. or two sets of parallel 2 by 4 in. lumber plates, tightly butted. Max diam of openings is 2 in.
 - Gypsum Board** — Thickness, type, number of layers and fasteners shall be as specified in individual Wall and Partition Design.
- Through Penetrants** — One nonmetallic pipe or conduit to be installed within the firestop system. Pipe or conduit shall be spaced an nom 1/4 in. from the cable (item No. 4). The space between pipe or conduit and the periphery of the opening shall be an nom 1/4 in. Pipe or conduit to be rigidly supported on both sides of the floor-ceiling assembly. The following types and sizes of nonmetallic pipes or conduits may be used:
 - Polyvinyl Chloride (PVC) Pipe** — Nom 3/4 in. diam (or smaller) Schedule 40 solid or cellular core PVC pipe for use in closed (process or supply) piping system.
 - Rigid Nonmetallic Conduit** — Nom 3/4 in. diam (or smaller) Schedule 40 PVC conduit installed in accordance with Article 347 of the National Electrical Code (NECA No. 70).
 - Chlorinated Polyvinyl Chloride (CPVC) Pipe** — Nom 3/4 in. diam (or smaller) SDR17 CPVC pipe for use in closed (process or supply) piping systems.
 - Electrical Nonmetallic Tubing (ENMT)** — Nom 3/4 in. diam (or smaller) ENMT formed from PVC and installed in accordance with Article 331 of the National Electrical Code.
- Cables** — One cable to be spaced an nom 1/4 in. from the other through penetrants. The space between the cable and periphery of opening shall be an nom 1/4 in. Cables to be rigidly supported on both sides of floor-ceiling assembly. The following types and sizes of copper conductor cables may be used:
 - Max 100 pair No. 24 AWC (or smaller) telephone cables with polyvinyl chloride (PVC) insulation and jacket.
 - Max 3/8 in. (with girth) No. 10 AWC (or smaller) nonmetallic sheathed ("Romex") cable with PVC insulation and jacket.

Fill Void or Cavity Material — Sealant — Fill material forced into annulus to max extent possible on top surface of floor. A generous bead of fill material also applied within the annulus of the top plate, flush with bottom surface of lower top plate.

SPECIFIED TECHNOLOGIES INC — SpecSeal 100, 101 or 105 Sealant
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LEE'S SUMMIT, MO 64086

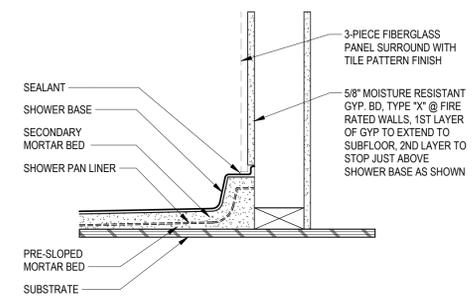
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62224 100% CD Set
102224 50% CD Set
041924 90% CD Set

REVISIONS

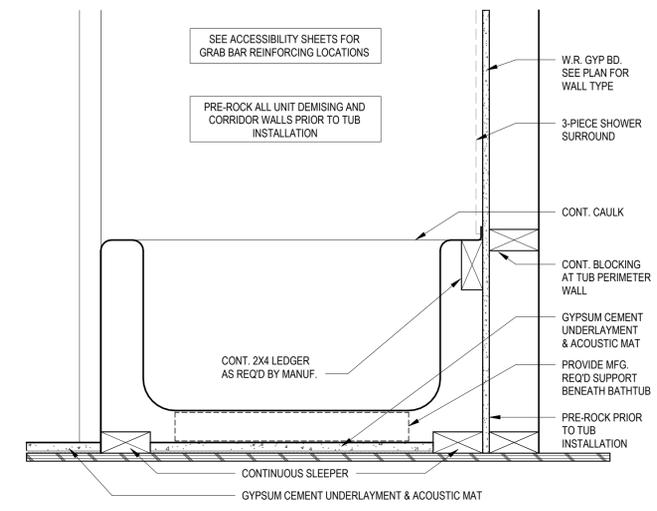
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DRAWN BY
SW EM KN
CD SET/PERMIT

SHEET NAME
PENETRATION DETAILS

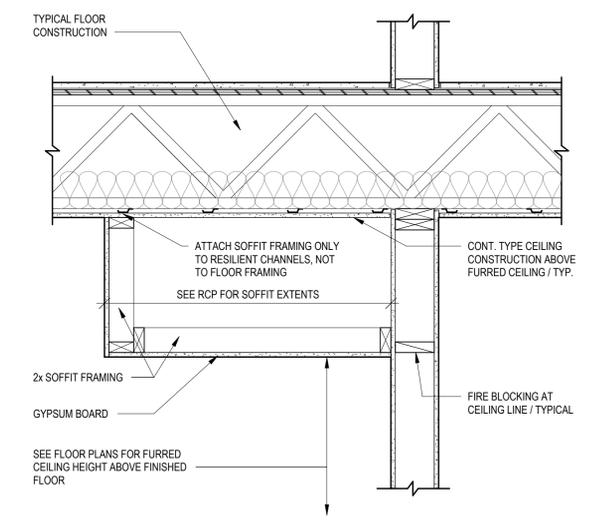
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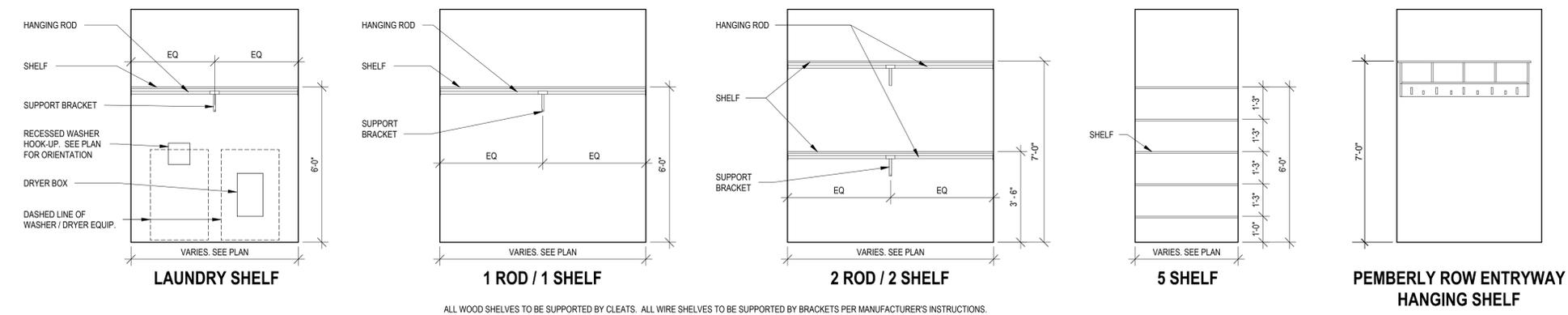
4 SECTION AT SHOWER
1 1/2" = 1'-0"



3 SECTION AT BATHTUB
1 1/2" = 1'-0"



2 FURRED CEILING DETAIL
1" = 1'-0"



1 UNIT SHELVES MOUNTING HEIGHTS
3/8" = 1'-0"

ALL WOOD SHELVES TO BE SUPPORTED BY CLEATS. ALL WIRE SHELVES TO BE SUPPORTED BY BRACKETS PER MANUFACTURER'S INSTRUCTIONS.

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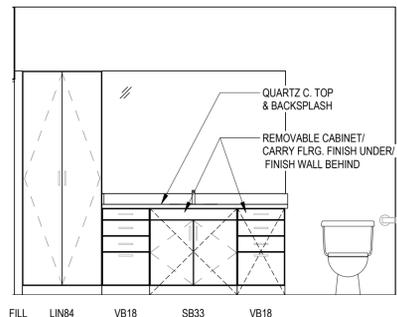
DRAWING RELEASE LOG
• 03/23/24 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS

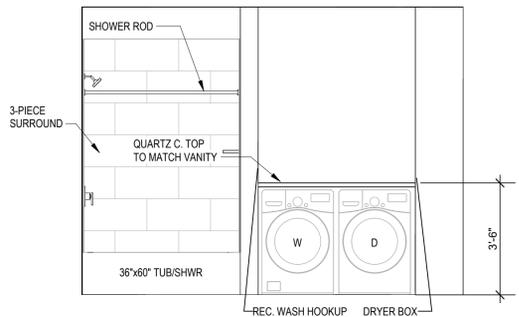
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CD SET/PERMIT

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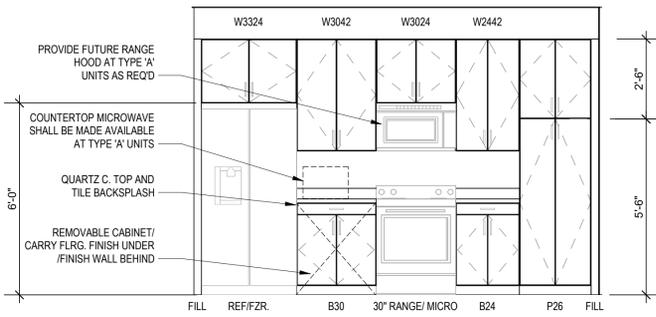
SHEET NO. **A1.00**



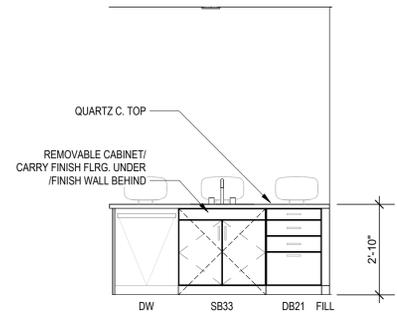
7 ELEVATION
3/8" = 1'-0"



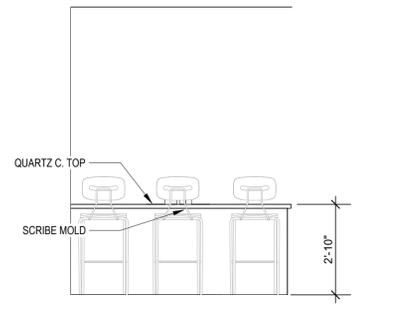
6 ELEVATION
3/8" = 1'-0"



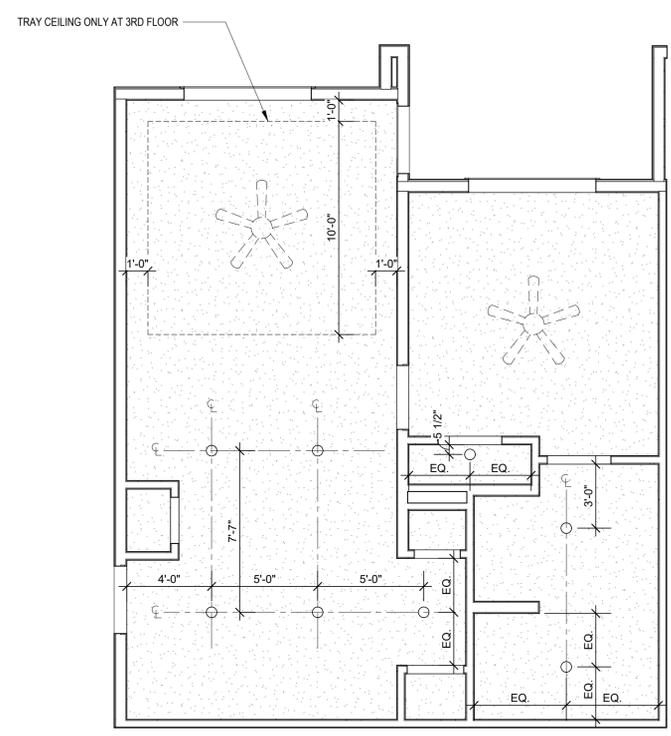
5 ELEVATION
3/8" = 1'-0"



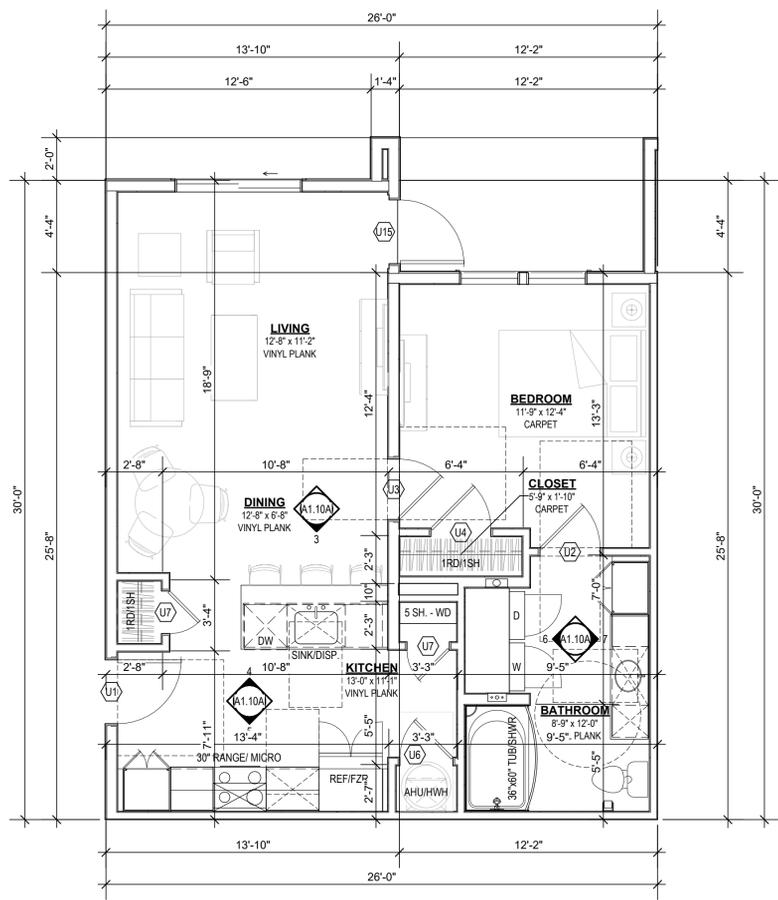
4 ELEVATION
3/8" = 1'-0"



3 ELEVATION
3/8" = 1'-0"



2 UNIT A1 - TYPE A - RCP
1/4" = 1'-0"



1 UNIT A1 - TYPE A
1/4" = 1'-0"

- UNIT PLAN GENERAL NOTES:**
- REFER TO ASSEMBLY SHEET SERIES **A0.20** FOR ASSEMBLY DIMENSION ORIGINS AND THICKNESS.
 - REFER TO SHEET **A1.00** FOR MOUNTING HEIGHTS.
 - REFER TO SHEET **A0.20** AND **A0.21** FOR ACCESSIBILITY REQUIREMENTS.
 - REFER TO BUILDING PLANS AND EXTERIOR ELEVATIONS FOR ADDITIONAL EXTERIOR ARCHITECTURAL ELEMENTS INCLUDING BALCONY LOCATIONS AND CONFIGURATIONS, COLUMNS, WINDOWS/TRANSOMS, AND PATIO DOOR INFORMATION.
 - USE TEAR-AWAY BEAD, BACKER ROD, AND CAULK AT ALL DRYWALL RETURNS AT FENESTRATION CONDITIONS.
 - ALL DIMENSIONS AND NOTES STATING "CLEAR", "MIN" OR "MAX" ARE FROM FINISH FACE TO FINISH FACE.
 - PROVIDE BLOCKING FOR ALL TV LOCATIONS, WALL HUNG CABINETS, SHELVING, GRAB BARS, AND OTHER WALL MOUNTED ITEMS.
 - LANDINGS AND FLOORS ON EITHER SIDE OF DOORWAYS SHALL NOT BE MORE THAN 1/2" LOWER THAN DOORWAY THRESHOLD.
 - PROVIDE SAFETY GLAZING AT HAZARDOUS LOCATIONS PER IBC SECTION 2406. SEE PLANS FOR LOCATIONS.
 - PROVIDE APPROVED SMOKE DETECTORS AND REQUIRED EMERGENCY FIXTURES WIRED INTO THE BUILDING'S PRIMARY POWER SYSTEM PER 2018 IBC SECTION 907.2.10. SEE MEP DRAWINGS FOR LOCATIONS.
 - ALL EXPOSED EDGES OF FINISHES TO BE DRESSED WITH APPROPRIATE FINISH STRIP.
 - MATCH SHOE FINISH TO CABINET FINISH WHERE ADJACENT TO BASE CABINET.
 - UNIT DEMISING WALLS AND FLOOR/CEILING ASSEMBLIES SEPARATING DWELLING UNITS FROM OTHER SPACES SHALL MEET OR EXCEED 50 S.T.C. PER 2018 IBC SECTION 1206.
 - WHEN TUBS AND SHOWERS ARE LOCATED ADJACENT TO A FIRE RATED ASSEMBLY, EXTEND GYPSUM BOARD BEHIND AND PROVIDE INSULATION.
 - VERIFY ALL TUB AND SHOWER WALL LENGTHS AND DIMENSION WITH ACTUAL TUB OR SHOWER PROVIDED. CONTRACTOR TO COORDINATE FRAMING WITH TUB MANUFACTURER AND TUB DETAILS.
 - AVOID WATER LINES IN EXTERIOR WALLS, WHERE NOT POSSIBLE, INSTALL FOAM INSULATION BETWEEN WATER LINES & SHEATHING.
 - REFER TO FLOOR PLANS AND ROOF PLANS FOR ADDITIONAL RAISED PLATE LINES AND VAULTED CEILING INFORMATION.
 - ALL WINDOWS TO RECEIVE 5/4X STOOL WITH 1X3 APRON & DRYWALL RETURNS ON JAMBS & HEAD.
 - DEVICE TRIMS & DEVICE FACES TO CLOSELY MATCH THE COLOR OF THE SURFACE THEY ARE APPLIED TO.
 - ALL PANTRY CABINETS & CABINETS ABOVE REFRIGERATOR SHALL BE 24" DEEP AND RECEIVE END PANELS WHERE EXPOSED.
 - ALL BATHROOM HARDWARE FINISHES TO MATCH, INCLUDING SHOWER DOOR FRAMES, UNLESS SPECIFICALLY NOTED OTHERWISE. G.C. SHALL SUBMIT AVAILABLE HARDWARE FINISHES TO ARCHITECT WHERE AN EXACT MATCH CANNOT BE MADE.
 - ALL PLUMBING PENETRATIONS TO RECEIVE ESCUTCHEON TRIM RINGS TO MATCH ADJACENT FIXTURE FINISH.
 - FIRE EXTINGUISHER SHALL BE PROVIDED AND LOCATED IN SINK BASE CABINET UNDER KITCHEN SINK, U.N.O.
 - ALL CEILING HEIGHTS TO BE B.O. STRUCTURE U.N.O.
 - ALL CEILING MOUNTED LIGHT FIXTURES TO BE CENTERED IN ROOM U.N.O.

A NEW APARTMENT COMMUNITY AT:
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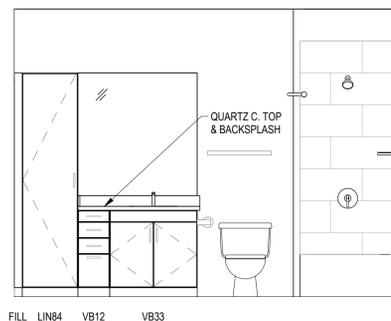
DRAWING RELEASE LOG
• 02/23/24 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS

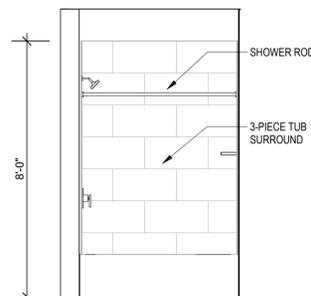
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DRAWN BY **SW EM KN**
CD SET/PERMIT

SHEET NAME
UNIT A1 TYPE A PLAN & ELEVATIONS
SHEET NO.

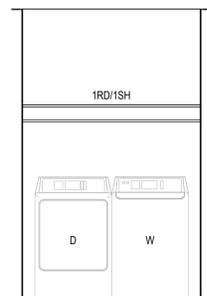
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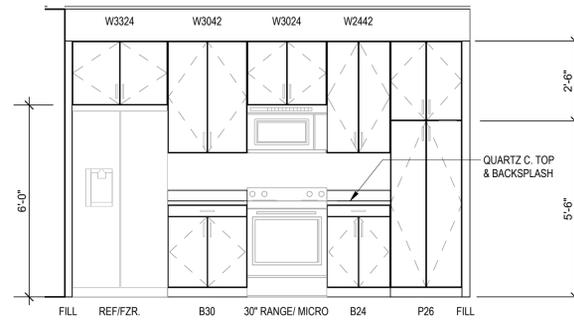
7 ELEVATION
3/8" = 1'-0"



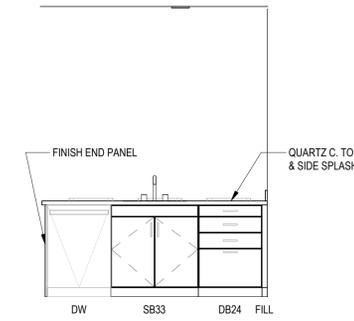
6 ELEVATION
3/8" = 1'-0"



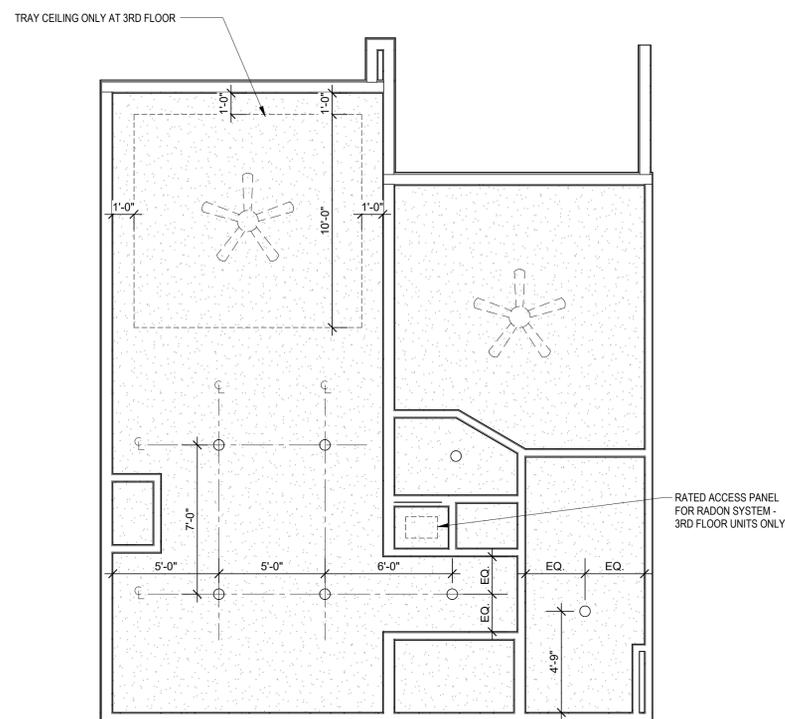
5 ELEVATION
3/8" = 1'-0"



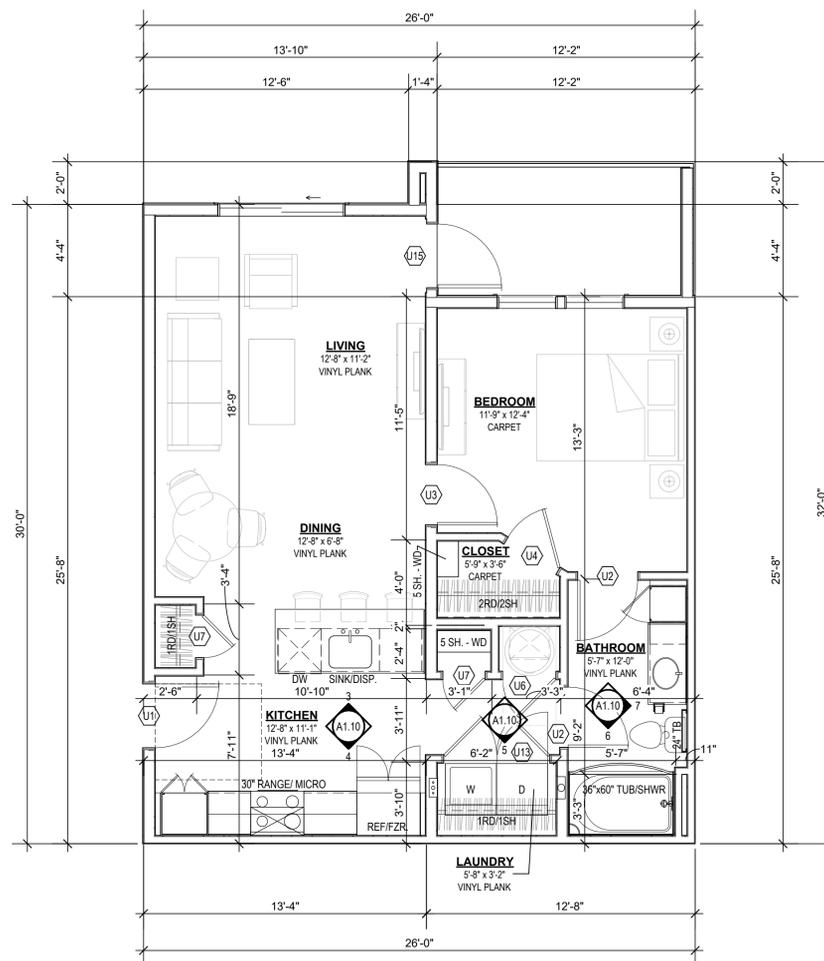
4 ELEVATION
3/8" = 1'-0"



3 ELEVATION
3/8" = 1'-0"



1 UNIT A1 - RCP
1/4" = 1'-0"



2 UNIT A1
1/4" = 1'-0"

UNIT PLAN GENERAL NOTES:

- A. REFER TO ASSEMBLY SHEET SERIES **A0.20** FOR ASSEMBLY DIMENSION ORIGINS AND THICKNESS.
- B. REFER TO SHEET **A1.00** FOR MOUNTING HEIGHTS.
- C. REFER TO SHEET **A0.20** AND **A0.21** FOR ACCESSIBILITY REQUIREMENTS.
- D. REFER TO BUILDING PLANS AND EXTERIOR ELEVATIONS FOR ADDITIONAL EXTERIOR ARCHITECTURAL ELEMENTS INCLUDING BALCONY LOCATIONS AND CONFIGURATIONS, COLUMNS, WINDOWS/TRANSOMS, AND PATIO DOOR INFORMATION.
- E. USE TEAR-AWAY BEAD, BACKER ROD, AND CAULK AT ALL DRYWALL RETURNS AT FENESTRATION CONDITIONS.
- F. ALL DIMENSIONS AND NOTES STATING "CLEAR", "MIN" OR "MAX" ARE FROM FINISH FACE TO FINISH FACE.
- G. PROVIDE BLOCKING FOR ALL TV LOCATIONS, WALL HUNG CABINETS, SHELVING, GRAB BARS, AND OTHER WALL MOUNTED ITEMS.
- H. LANDINGS AND FLOORS ON EITHER SIDE OF DOORWAYS SHALL NOT BE MORE THAN 1/2" LOWER THAN DOORWAY THRESHOLD.
- I. PROVIDE SAFETY GLAZING AT HAZARDOUS LOCATIONS PER IBC SECTION 2406. SEE PLANS FOR LOCATIONS.
- J. PROVIDE APPROVED SMOKE DETECTORS AND REQUIRED EMERGENCY FIXTURES WIRED INTO THE BUILDING'S PRIMARY POWER SYSTEM PER 2018 IBC SECTION 907.2.10. SEE MEP DRAWINGS FOR LOCATIONS.
- K. ALL EXPOSED EDGES OF FINISHES TO BE DRESSED WITH APPROPRIATE FINISH STRIP.
- L. MATCH SHOE FINISH TO CABINET FINISH WHERE ADJACENT TO BASE CABINET.
- M. UNIT DEMISING WALLS AND FLOOR/CEILING ASSEMBLIES SEPARATING DWELLING UNITS FROM OTHER SPACES SHALL MEET OR EXCEED 50 S.T.C. PER 2018 IBC SECTION 1206.
- N. WHEN TUBS AND SHOWERS ARE LOCATED ADJACENT TO A FIRE RATED ASSEMBLY, EXTEND GYPSUM BOARD BEHIND AND PROVIDE INSULATION.
- O. VERIFY ALL TUB AND SHOWER WALL LENGTHS AND DIMENSION WITH ACTUAL TUB OR SHOWER PROVIDED. CONTRACTOR TO COORDINATE FRAMING WITH TUB MANUFACTURER AND TUB DETAILS.
- P. AVOID WATER LINES IN EXTERIOR WALLS. WHERE NOT POSSIBLE, INSTALL FOAM INSULATION BETWEEN WATER LINES & SHEATHING.
- Q. REFER TO FLOOR PLANS AND ROOF PLANS FOR ADDITIONAL RAISED PLATE LINES AND VAULTED CEILING INFORMATION.
- R. ALL WINDOWS TO RECEIVE 5/4X STOOL WITH 1X3 APRON & DRYWALL RETURNS ON JAMBS & HEAD.
- S. DEVICE TRIMS & DEVICE FACES TO CLOSELY MATCH THE COLOR OF THE SURFACE THEY ARE APPLIED TO.
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- W. FIRE EXTINGUISHER SHALL BE PROVIDED AND LOCATED IN SINK BASE CABINET UNDER KITCHEN SINK, U.N.O.
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A NEW APARTMENT COMMUNITY AT:
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NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

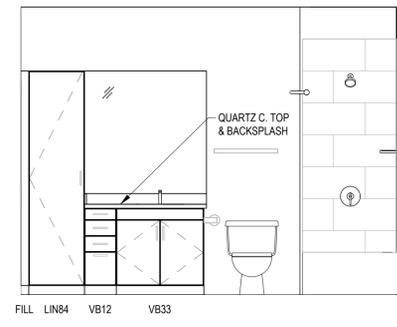
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• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS

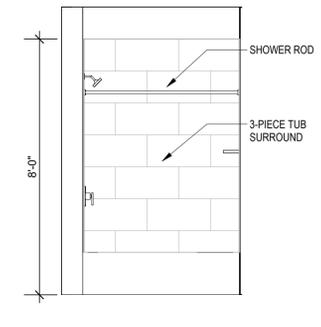
JOB NO. **740623** DATE **04.19.24**
DRAWN BY **SW EM KN**
CD SET/PERMIT

SHEET NAME
UNIT A1 PLAN & ELEVATIONS
SHEET NO.

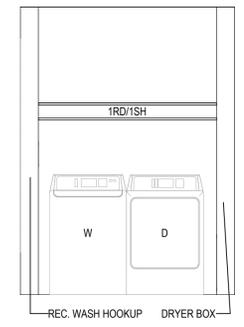
A1.10



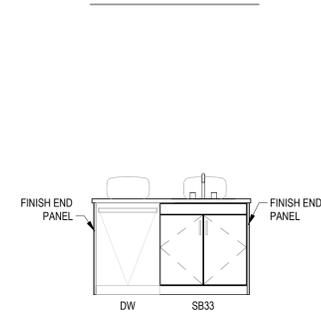
8 ELEVATION
3/8" = 1'-0"



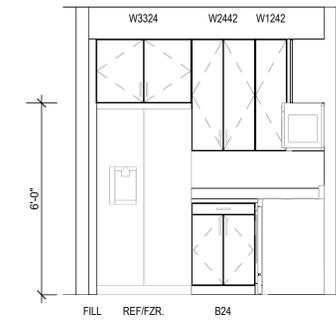
7 ELEVATION
3/8" = 1'-0"



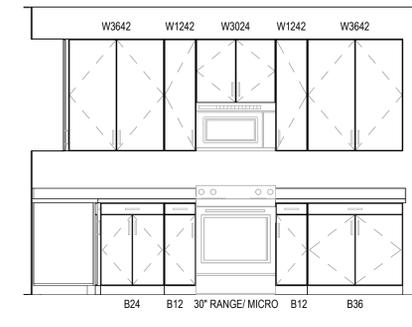
6 ELEVATION
3/8" = 1'-0"



5 ELEVATION
3/8" = 1'-0"

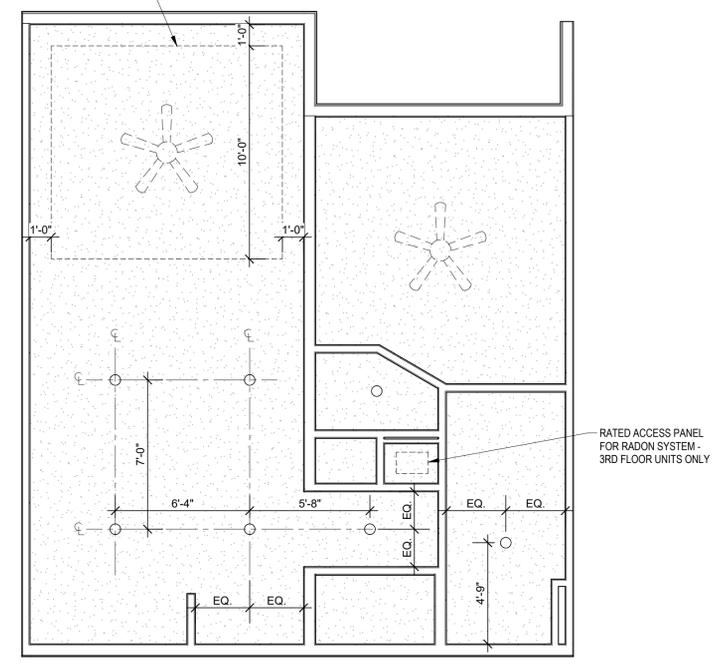


4 ELEVATION
3/8" = 1'-0"

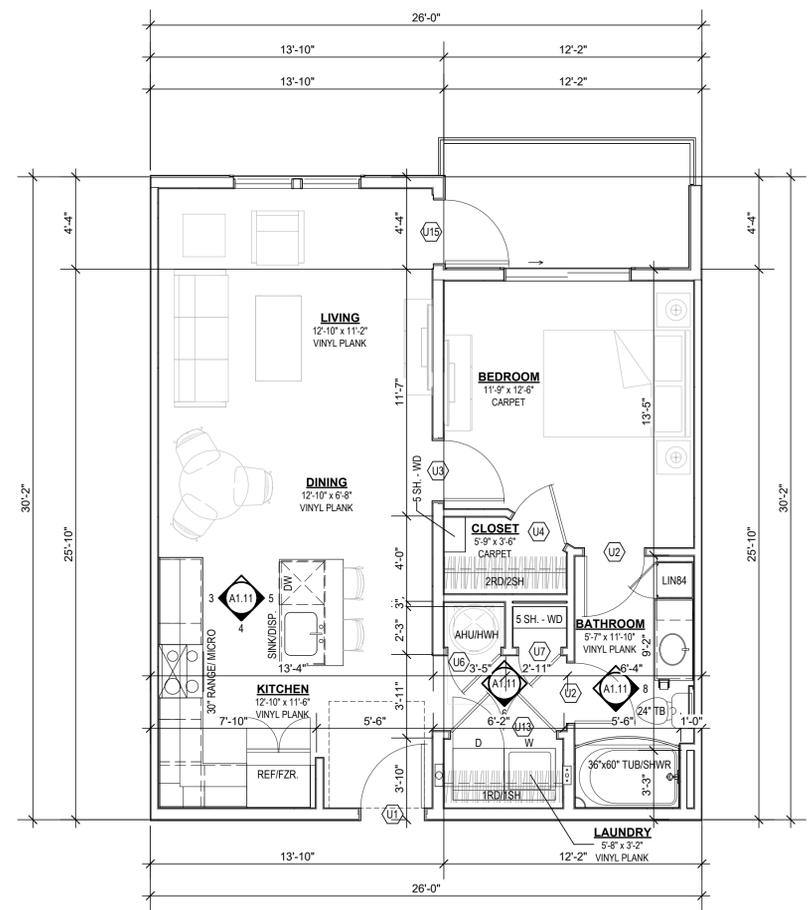


3 ELEVATION
3/8" = 1'-0"

TRAY CEILING ONLY AT 3RD FLOOR



2 UNIT A2 - RCP
1/4" = 1'-0"



1 UNIT A2
1/4" = 1'-0"

UNIT PLAN GENERAL NOTES:

- A. REFER TO ASSEMBLY SHEET SERIES **A0.20** FOR ASSEMBLY DIMENSION ORIGINS AND THICKNESS.
- B. REFER TO SHEET **A1.00** FOR MOUNTING HEIGHTS.
- C. REFER TO SHEET **A0.20** AND **A0.21** FOR ACCESSIBILITY REQUIREMENTS.
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- K. ALL EXPOSED EDGES OF FINISHES TO BE DRESSED WITH APPROPRIATE FINISH STRIP.
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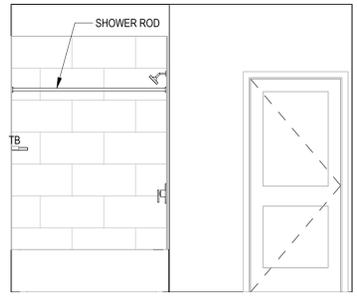
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• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS

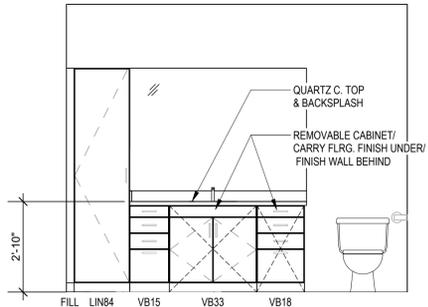
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SHEET NAME
UNIT A2 PLAN & ELEVATIONS
SHEET NO.

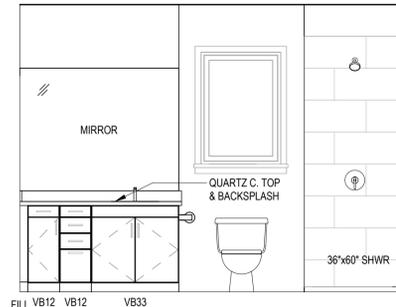
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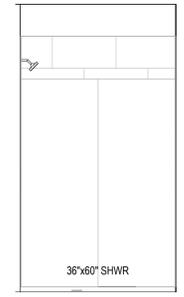
10 ELEVATION
3/8" = 1'-0"



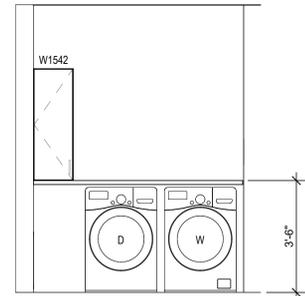
9 ELEVATION
3/8" = 1'-0"



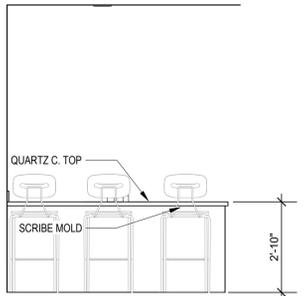
8 ELEVATION
3/8" = 1'-0"



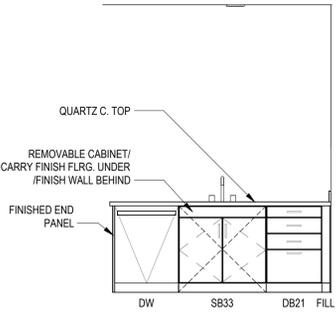
7 ELEVATION
3/8" = 1'-0"



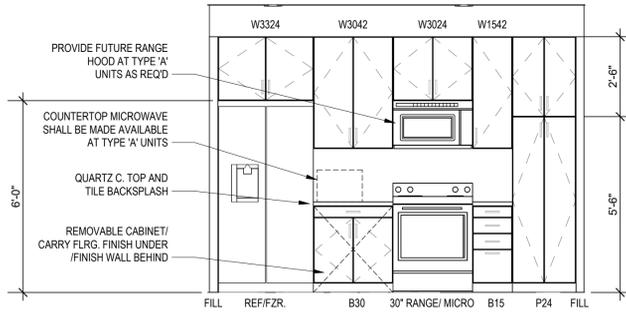
6 ELEVATION
3/8" = 1'-0"



5 ELEVATION
3/8" = 1'-0"



4 ELEVATION
3/8" = 1'-0"



3 ELEVATION
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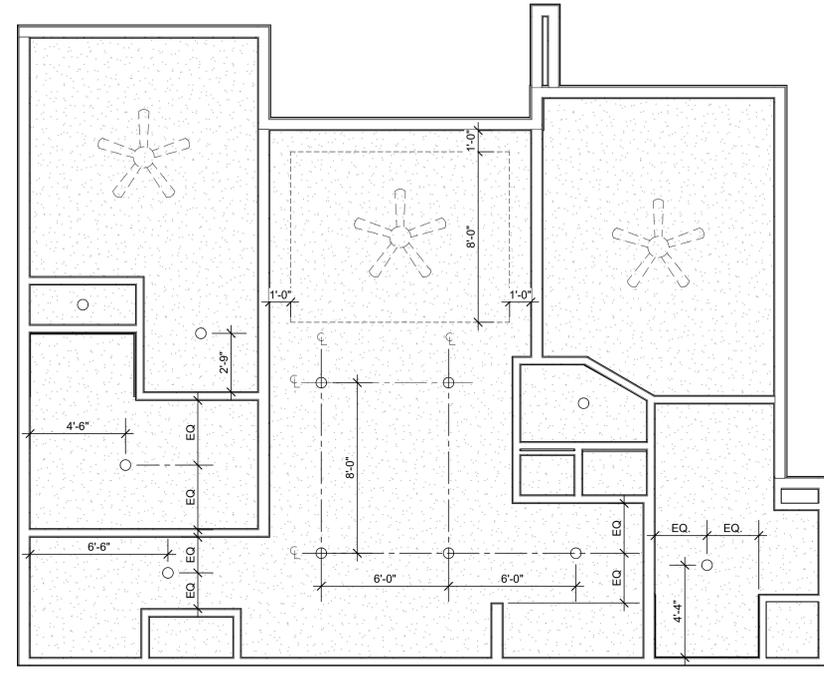
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REVISIONS

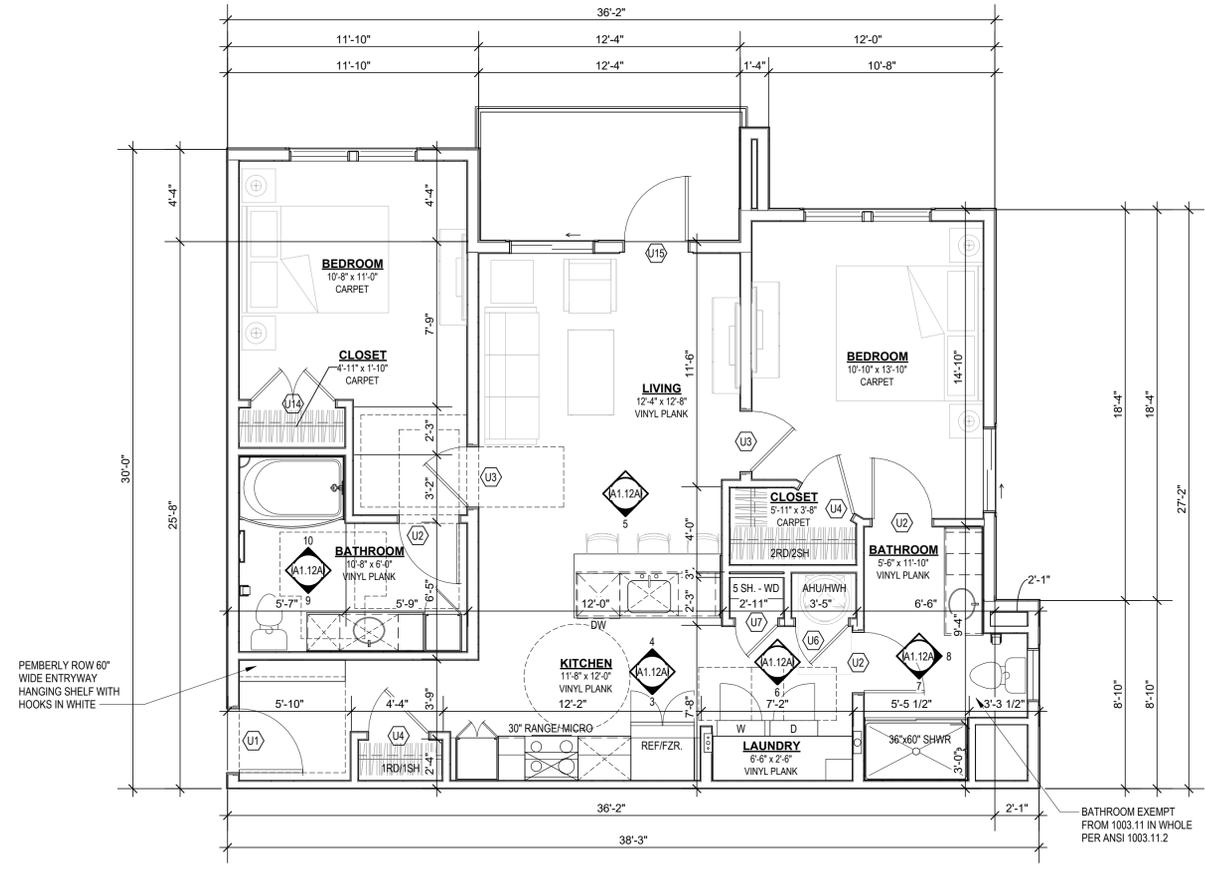
JOB NO. **740623** DATE **04.19.24**
DRAWN BY **SW EM KN**
CD SET/PERMIT

SHEET NAME
UNIT B1 TYPE A PLAN & ELEVATIONS
SHEET NO.

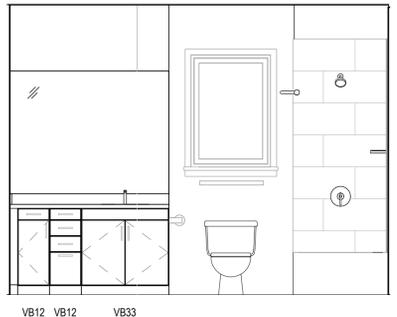
A1.12A



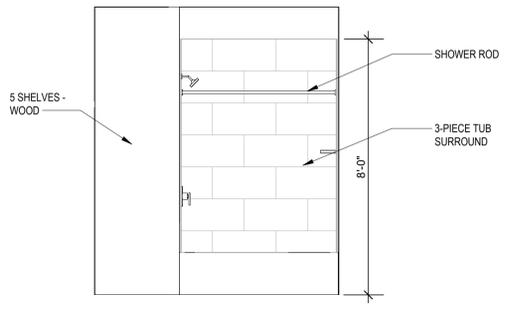
2 UNIT B1 - TYPE A - RCP
1/4" = 1'-0"



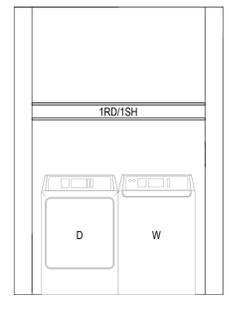
1 UNIT B1 - TYPE A
1/4" = 1'-0"



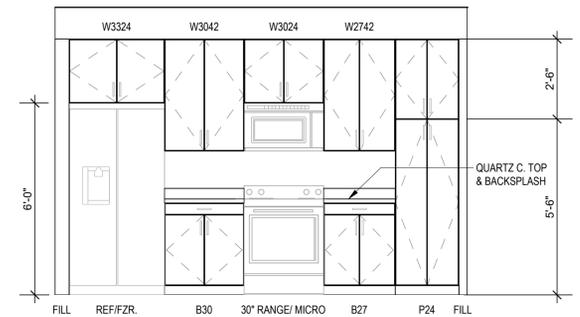
7 ELEVATION
3/8" = 1'-0"



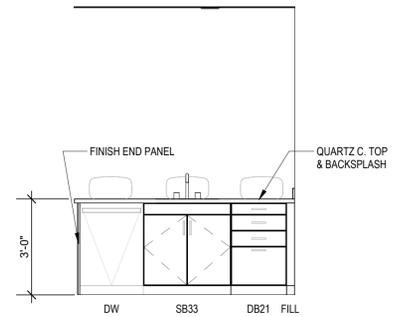
6 ELEVATION
3/8" = 1'-0"



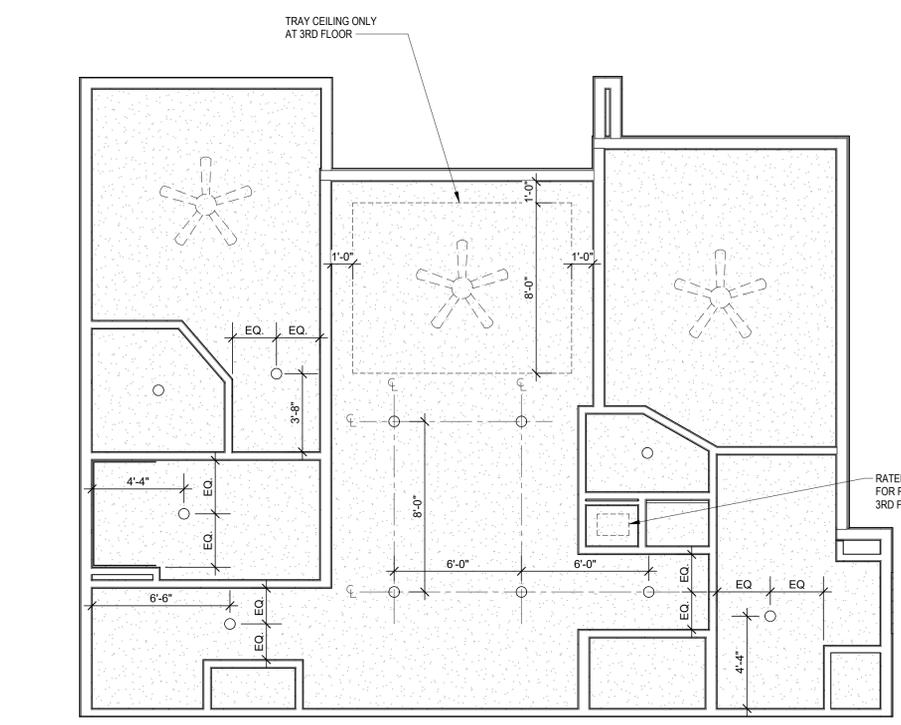
5 ELEVATION
3/8" = 1'-0"



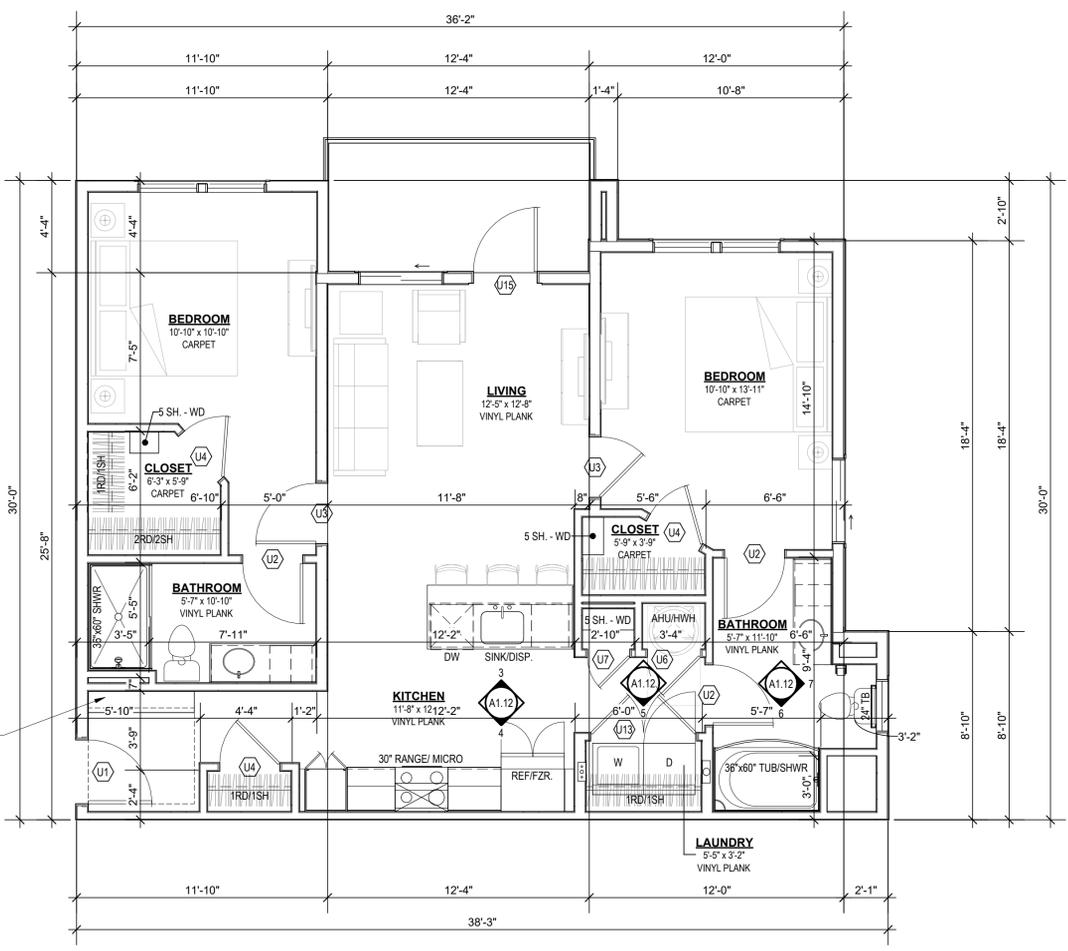
4 ELEVATION
3/8" = 1'-0"



3 ELEVATION
3/8" = 1'-0"



2 UNIT B1 - RCP
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1 UNIT B1
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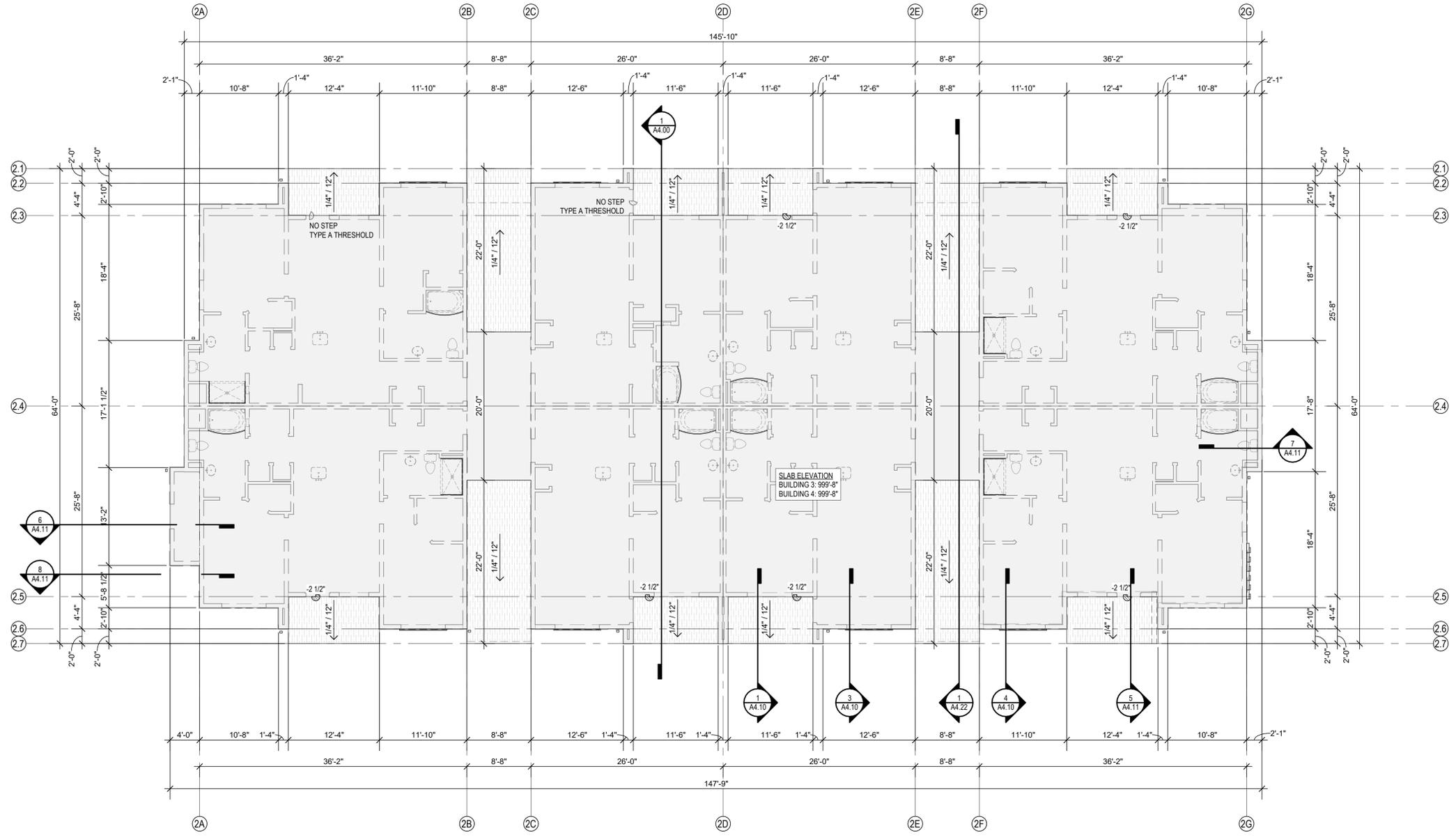
DRAWING RELEASE LOG
• 02/23/24 100% CD Set
• 03/22/24 50% CD Set
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REVISIONS

JOB NO. **740623** DATE **04.19.24**
DRAWN BY **SW EM KN**
CD SET/PERMIT

SHEET NAME
UNIT B1 PLAN & ELEVATIONS
SHEET NO.

A1.12



1 BUILDING TYPE A SLAB PLAN
1/8" = 1'-0"

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△ REVISIONS

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 DRAWN BY **SW EM KN**
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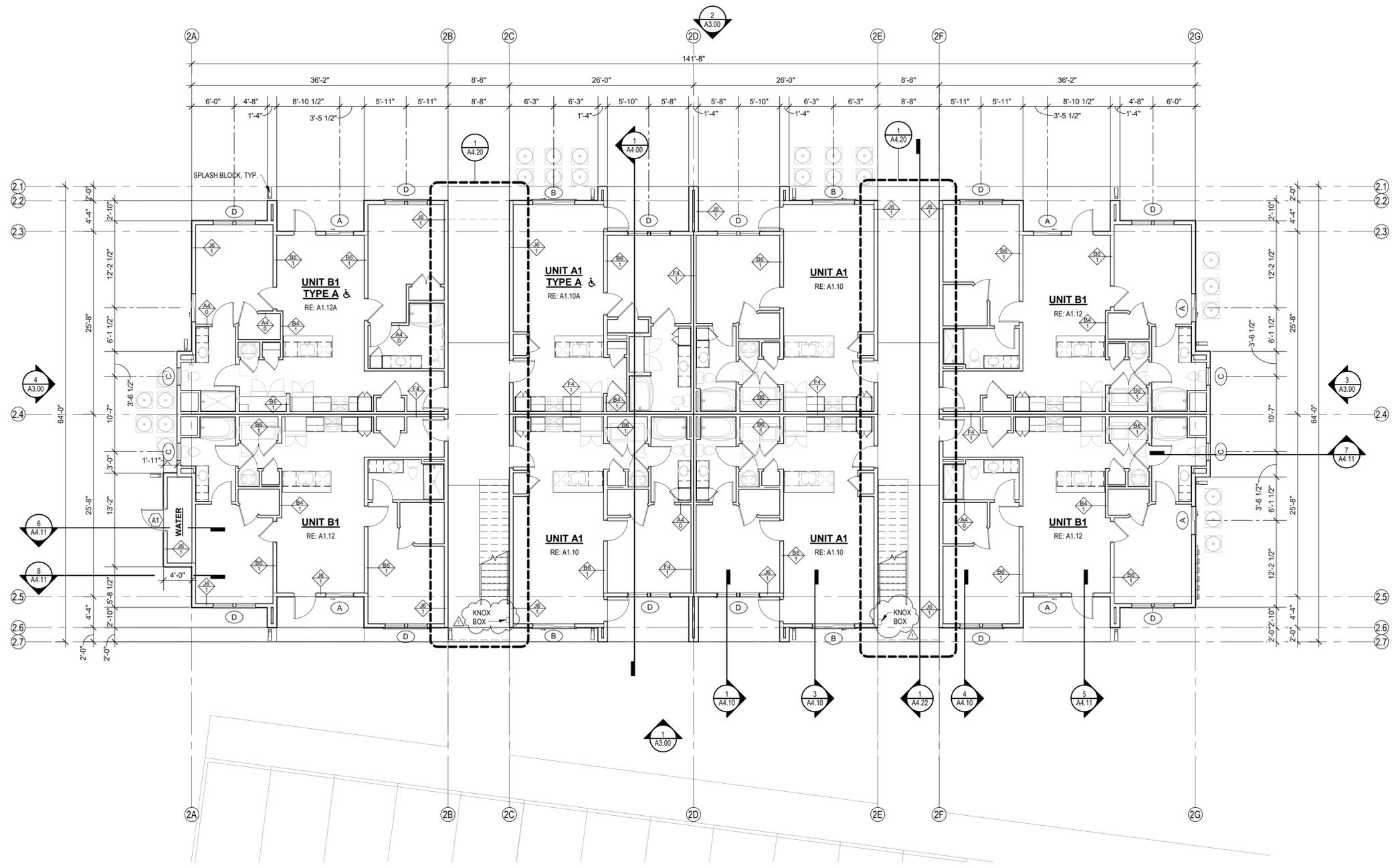
SHEET NAME
**BUILDING TYPE A SLAB
 PLAN**
 SHEET NO.

A2.10



BUILDING FLOOR PLAN GENERAL NOTES:

- A. RATED ASSEMBLY TAGS ARE TYPICAL AT SIMILAR LOCATIONS NOT OTHERWISE NOTED.
- B. SEE SHEETS **A0.30** FOR RATED ASSEMBLIES
- C. ALL EXTERIOR COMMON USE DOOR THRESHOLDS TO BE ACCESSIBLE. ALL ACCESSIBLE ENTRANCES SHALL HAVE NO MORE THAN A 1:48 SLOPE FOR A DISTANCE OF 60" PERPENDICULAR TO THE DOOR.
- D. FIRE EXTINGUISHER CABINET (F.E.C.) LOCATIONS ARE APPROXIMATE UNLESS NOTED OTHERWISE. CONTRACTOR TO COORDINATE FINAL LOCATIONS TO NOT CONFLICT WITH WALL FRAMING, UTILITY ROUGH-INS, TRIM/PANELING, ETC.
- E. COORDINATE SECURITY, IT & AV REQUIREMENTS WITH OWNER PRIOR TO CONSTRUCTION. PROVIDE CONDUIT AND PULL STRINGS AS NEEDED.
- F. PROVIDE CONTROL JOINTS IN ACCORDANCE WITH GA-216 IN ALL FULL HEIGHT GYPSUM BOARD PARTITIONS AND CEILINGS AT 30'-0" C.C. MAX. VERIFY FINAL LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
- G. CONTROL JOINTS AND EXPANSION JOINTS IN FIRE RATED PARTITIONS SHALL BE CONSTRUCTED TO MAINTAIN THE FIRE RATING OF THE PARTITION. CONTROL JOINTS AND EXPANSION JOINTS IN NON-RATED PARTITIONS SHALL BE CONSTRUCTED WITH SOUND ATTENUATION BLANKET MATERIAL WITHIN THE JOINT TO REDUCE SOUND TRANSMISSION.
- H. DOWNSPOUTS AT THE FRONT AND SIDES OF BUILDING SHALL DISCHARGE AWAY FROM BUILDING ON 12"X36" CONCRETE SPLASHBLOCKS.
- I. DOWNSPOUTS AT REAR OF BUILDING SHALL BE PIPED TO STORM DRAINS BELOW GRADE. SEE CIVIL DRAWINGS.



1 BUILDING TYPE A FIRST FLOOR PLAN
1/8" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
 • 03/23/24 100% CD Set
 • 03/22/24 50% CD Set
 • 04/19/24 90% CD Set

REVISIONS

1	9/27/24	CITY COMMENT RESPONSES
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JOB NO. **740623** DATE **04.19.24**
 DRAWN BY **SW EM KN**
 CD SET/PERMIT

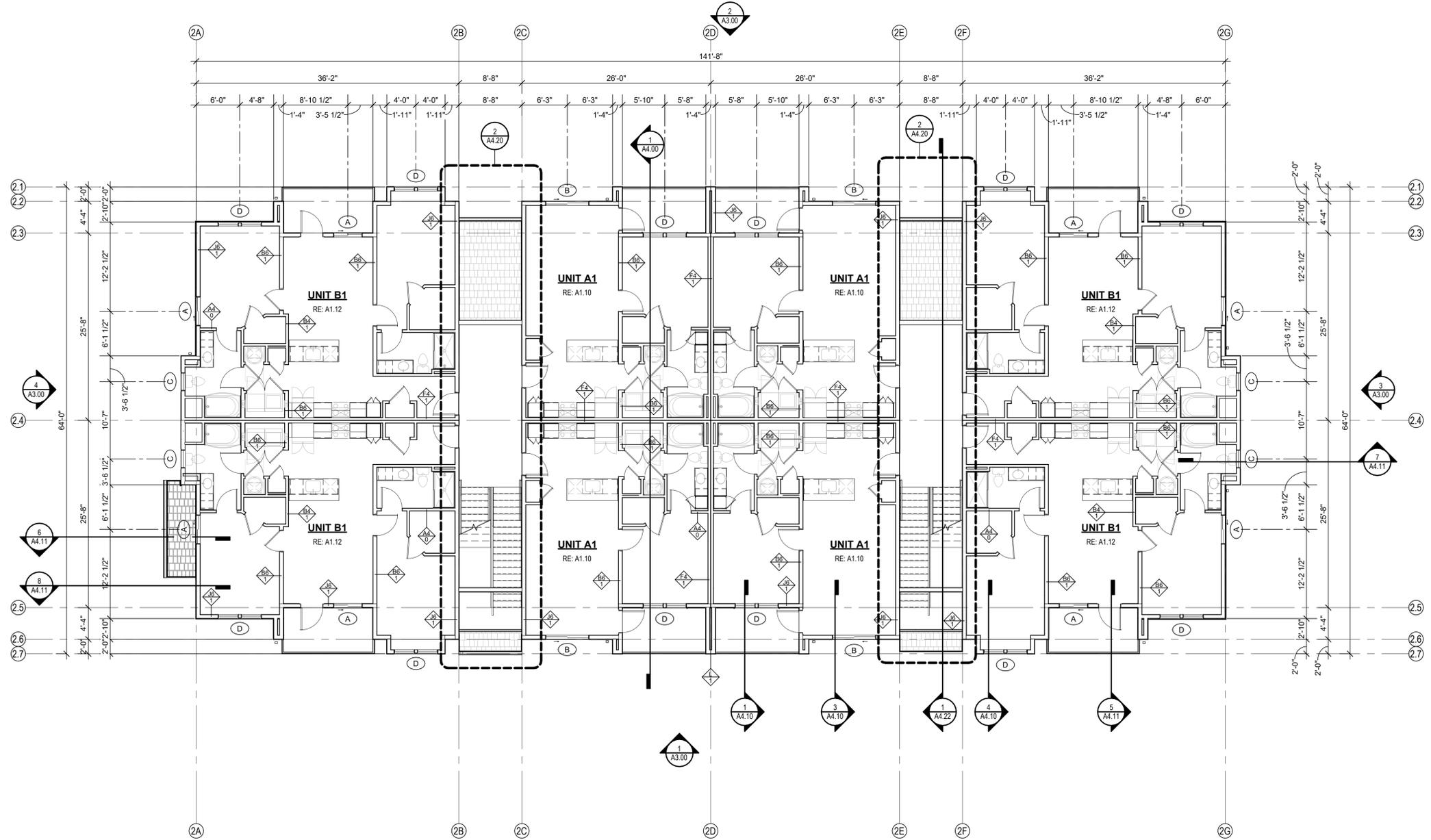
SHEET NAME
BUILDING TYPE A 1ST FLOOR
 SHEET NO.

A2.11



BUILDING FLOOR PLAN GENERAL NOTES:

- A. RATED ASSEMBLY TAGS ARE TYPICAL AT SIMILAR LOCATIONS NOT OTHERWISE NOTED.
- B. SEE SHEETS **A0.20** FOR RATED ASSEMBLIES
- C. ALL EXTERIOR COMMON USE DOOR THRESHOLDS TO BE ACCESSIBLE. ALL ACCESSIBLE ENTRANCES SHALL HAVE NO MORE THAN A 1/4" SLOPE FOR A DISTANCE OF 60" PERPENDICULAR TO THE DOOR.
- D. FIRE EXTINGUISHER CABINET (F.E.C.) LOCATIONS ARE APPROXIMATE UNLESS NOTED OTHERWISE. CONTRACTOR TO COORDINATE FINAL LOCATIONS TO NOT CONFLICT WITH WALL FRAMING, UTILITY ROUGH-INS, TRIMPANELING, ETC.
- E. COORDINATE SECURITY, IT & AV REQUIREMENTS WITH OWNER PRIOR TO CONSTRUCTION. PROVIDE CONDUIT AND PULL STRINGS AS NEEDED.
- F. PROVIDE CONTROL JOINTS IN ACCORDANCE WITH GA-216 IN ALL FULL HEIGHT GYPSUM BOARD PARTITIONS AND CEILINGS AT 30'-0" O.C. MAX. VERIFY FINAL LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
- G. CONTROL JOINTS AND EXPANSION JOINTS IN FIRE RATED PARTITIONS SHALL BE CONSTRUCTED TO MAINTAIN THE FIRE RATING OF THE PARTITION. CONTROL JOINTS AND EXPANSION JOINTS IN NON-RATED PARTITIONS SHALL BE CONSTRUCTED WITH SOUND ATTENUATION BLANKET MATERIAL WITHIN THE JOINT TO REDUCE SOUND TRANSMISSION.
- H. DOWNSPOUTS AT THE FRONT AND SIDES OF BUILDING SHALL DISCHARGE AWAY FROM BUILDING ON 12"X36" CONCRETE SPLASHBLOCKS.
- I. DOWNSPOUTS AT REAR OF BUILDING SHALL BE PIPED TO STORM DRAINS BELOW GRADE. SEE CIVIL DRAWINGS.



1 BUILDING TYPE A SECOND FLOOR PLAN
1/8" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
 • 03/23/24 100% CD Set
 • 03/22/24 50% CD Set
 • 04/19/24 90% CD Set

△ REVISIONS

JOB NO. **740623** DATE **04.19.24**
 DRAWN BY **SW EM KN**
 CD SET/PERMIT

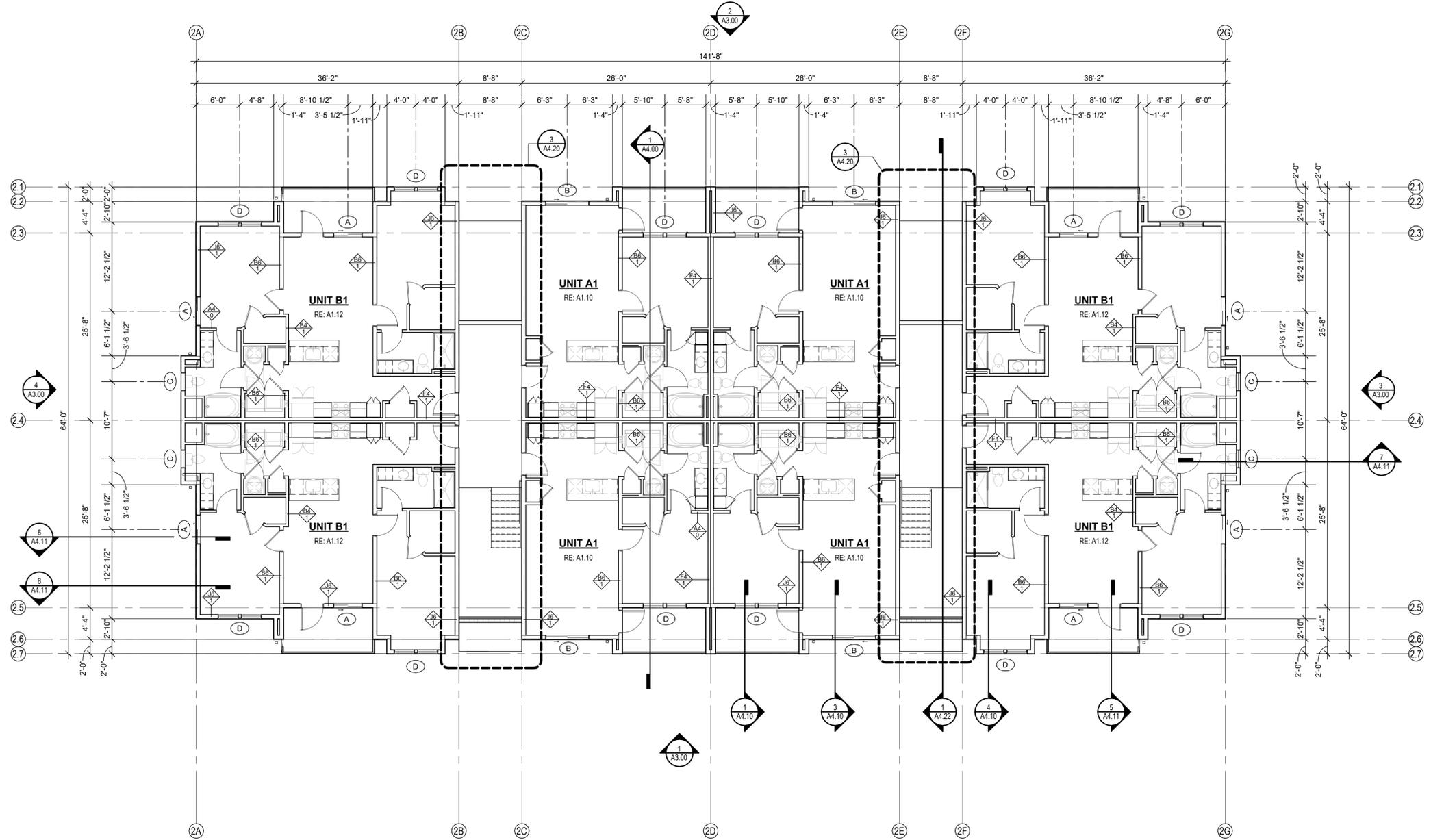
SHEET NAME
 BUILDING TYPE A 2ND
 FLOOR
 SHEET NO.

A2.12



BUILDING FLOOR PLAN GENERAL NOTES:

- A. RATED ASSEMBLY TAGS ARE TYPICAL AT SIMILAR LOCATIONS NOT OTHERWISE NOTED.
- B. SEE SHEETS **A0.30** FOR RATED ASSEMBLIES
- C. ALL EXTERIOR COMMON USE DOOR THRESHOLDS TO BE ACCESSIBLE. ALL ACCESSIBLE ENTRANCES SHALL HAVE NO MORE THAN A 1/4" SLOPE FOR A DISTANCE OF 60" PERPENDICULAR TO THE DOOR.
- D. FIRE EXTINGUISHER CABINET (F.E.C.) LOCATIONS ARE APPROXIMATE UNLESS NOTED OTHERWISE. CONTRACTOR TO COORDINATE FINAL LOCATIONS TO NOT CONFLICT WITH WALL FRAMING, UTILITY ROUGH-INS, TRIMPANELING, ETC.
- E. COORDINATE SECURITY, IT & AV REQUIREMENTS WITH OWNER PRIOR TO CONSTRUCTION. PROVIDE CONDUIT AND PULL STRINGS AS NEEDED.
- F. PROVIDE CONTROL JOINTS IN ACCORDANCE WITH GA-216 IN ALL FULL HEIGHT GYPSUM BOARD PARTITIONS AND CEILINGS AT 30'-0" O.C. MAX. VERIFY FINAL LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
- G. CONTROL JOINTS AND EXPANSION JOINTS IN FIRE RATED PARTITIONS SHALL BE CONSTRUCTED TO MAINTAIN THE FIRE RATING OF THE PARTITION. CONTROL JOINTS AND EXPANSION JOINTS IN NON-RATED PARTITIONS SHALL BE CONSTRUCTED WITH SOUND ATTENUATION BLANKET MATERIAL WITHIN THE JOINT TO REDUCE SOUND TRANSMISSION.
- H. DOWNSPOUTS AT THE FRONT AND SIDES OF BUILDING SHALL DISCHARGE AWAY FROM BUILDING ON 12" X36" CONCRETE SPLASHBLOCKS.
- I. DOWNSPOUTS AT REAR OF BUILDING SHALL BE PIPED TO STORM DRAINS BELOW GRADE. SEE CIVIL DRAWINGS.



1 BUILDING TYPE A THIRD FLOOR PLAN
1/8" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
 • 03/23/24 100% CD Set
 • 03/22/24 50% CD Set
 • 04/19/24 90% CD Set

△ REVISIONS

JOB NO. **740623** DATE **04.19.24**
 DRAWN BY **SW EM KN**
 CD SET/PERMIT

SHEET NAME
BUILDING TYPE A 3RD FLOOR
 SHEET NO.

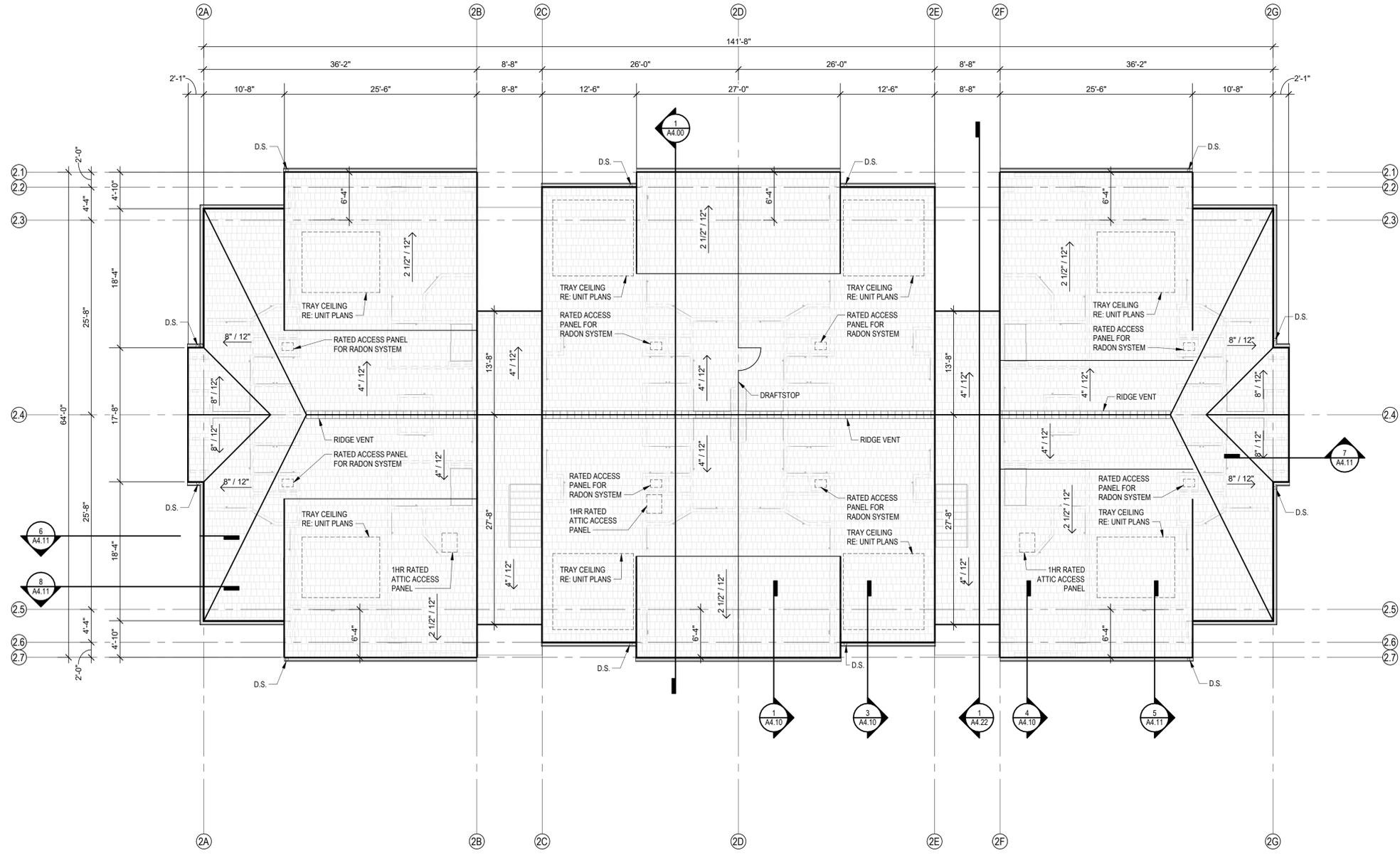
A2.13



ROOF VENT CALCULATOR - BUILDING TYPE A

Name	Area	Total Net Free Area of Venting Provided	Vented Area Percentage at Upper Roof Provided	UPPER VENTING		Total Net Free Area of Upper Venting Provided	LOWER VENTING			Total Lower Venting Provided	
				RIDGE VENTING			SOFFIT VENTING		STATIC VENT		
				Vented Net Free Area Per LF of Ridge Vent	Length of Ridge Vent Provided		Vented Net Free Area Per LF of Vented Soffit	Vented Soffit Length Provided	Vented Net Free Area Per Lower Static Vent		Static Vents Provided
DRAFTSTOP	2051 SF	1003 in ²	25.23%	11 in ²	22'-7"	248 in ²	5 in ²	31'-0"	50 in ²	12	755 in ²
DRAFTSTOP	379 SF	200 in ²	0.00%	11 in ²	0"	0 in ²	5 in ²	0'-0"	50 in ²	4	200 in ²
DRAFTSTOP	1562 SF	1021 in ²	38.14%	11 in ²	26'-0"	286 in ²	5 in ²	27'-0"	50 in ²	12	735 in ²
DRAFTSTOP	1563 SF	1021 in ²	38.11%	11 in ²	26'-0"	286 in ²	5 in ²	27'-0"	50 in ²	12	735 in ²
DRAFTSTOP	379 SF	200 in ²	0.00%	11 in ²	0"	0 in ²	5 in ²	0'-0"	50 in ²	4	200 in ²
DRAFTSTOP	2051 SF	1253 in ²	25.23%	11 in ²	22'-7"	248 in ²	5 in ²	31'-0"	50 in ²	17	1005 in ²

- ROOF PLAN GENERAL NOTES:**
- REFER TO BUILDING ELEVATIONS FOR DOWNSPOUT LOCATIONS.
 - ALL OBJECTS INDICATED ON THE ROOF ARE GENERAL AND MUST BE COORDINATED WITH MEP AND STRUCTURAL ELEMENTS. REFER TO MEP DRAWINGS FOR ACTUAL MECHANICAL EQUIPMENT LOCATIONS.
 - ALL FLAT ROOFS SHALL SLOPE 1/4" PER FOOT MINIMUM.
 - ALL CRICKETS SHALL SLOPE 1/2" PER FOOT MINIMUM.
 - PROVIDE KICK-OUT FLASHING AT ALL ROOF TO SIDE-WALL CONDITIONS.
 - COORDINATE ALL ROOFING DETAILS WITH MANUFACTURER'S WARRANTED SYSTEM.



1 BUILDING TYPE A ROOF PLAN
1/8" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

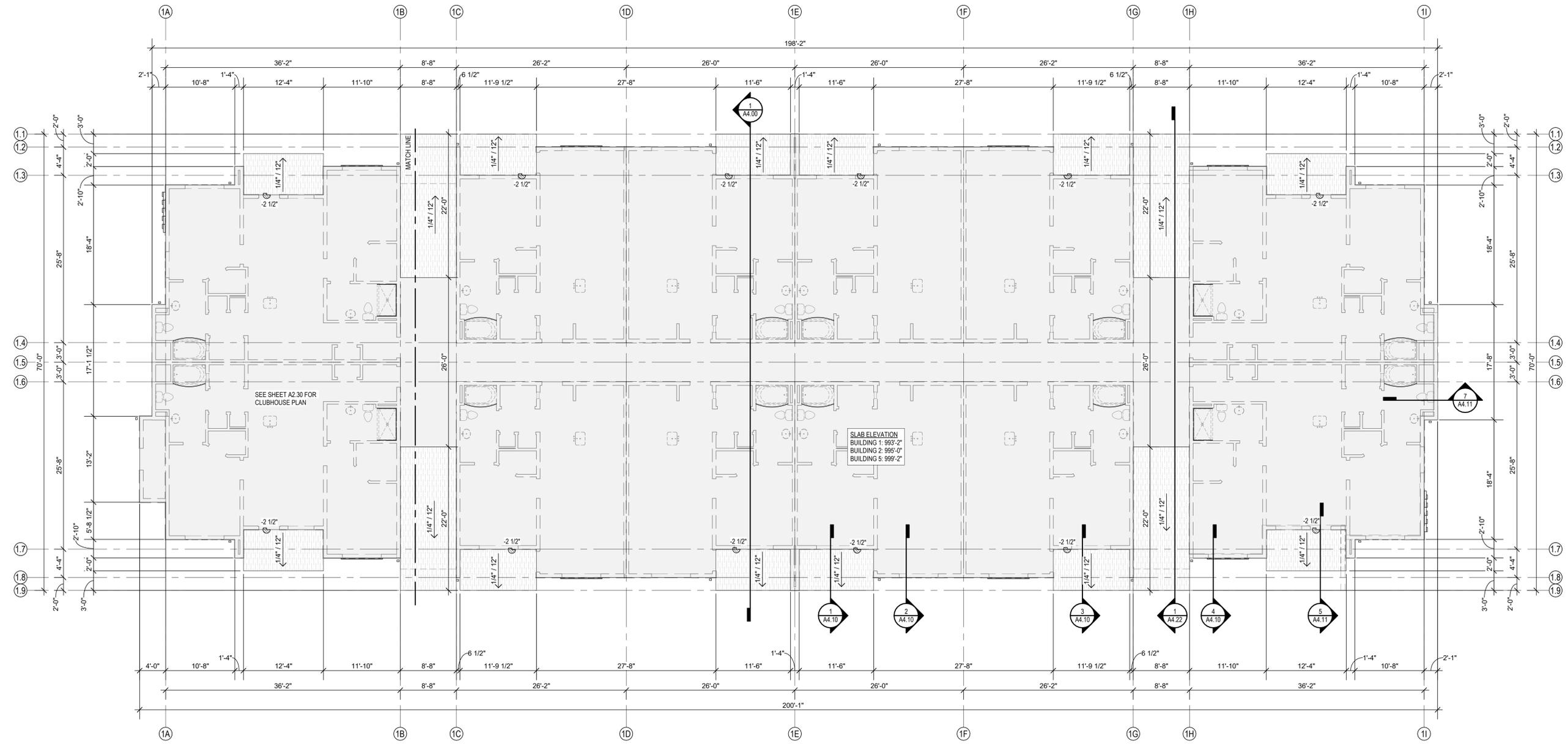
DRAWING RELEASE LOG
 • 03/23/24 100% CD Set
 • 03/22/24 50% CD Set
 • 04/19/24 90% CD Set

REVISIONS

JOB NO. 740623 DATE 04.19.24
 DRAWN BY SW EM KN
 CD SET/PERMIT

SHEET NAME BUILDING TYPE A ROOF PLAN
 SHEET NO.

A2.14



A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
• 03/23/24 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS

1 BUILDING TYPE C SLAB PLAN
1/8" = 1'-0"

JOB NO. 740623 DATE 04.19.24
DRAWN BY SW EM KN
CD SET/PERMIT

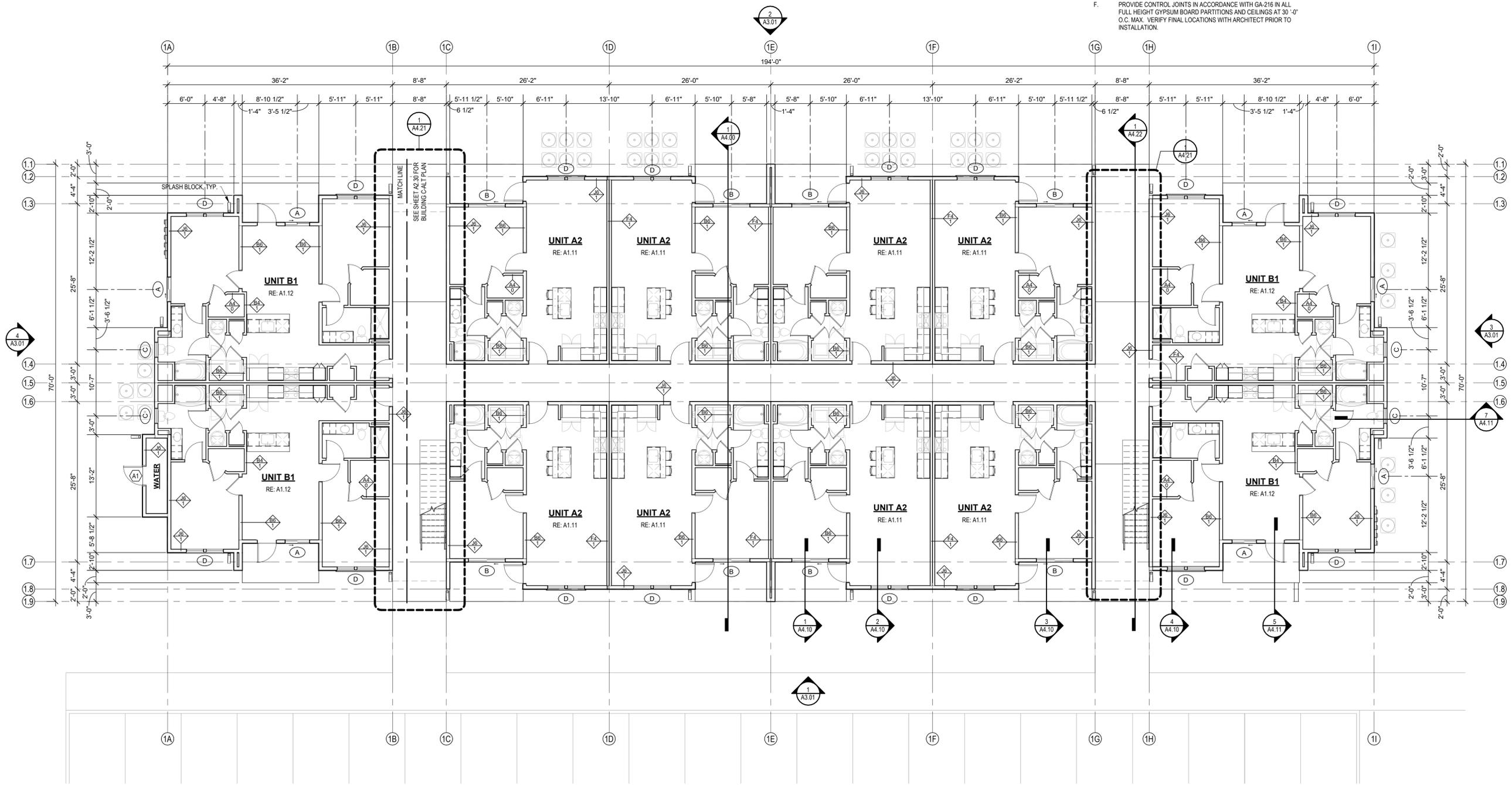
SHEET NAME
BUILDING TYPE C SLAB
PLAN
SHEET NO.

A2.20



BUILDING FLOOR PLAN GENERAL NOTES:

- A. RATED ASSEMBLY TAGS ARE TYPICAL AT SIMILAR LOCATIONS NOT OTHERWISE NOTED.
- B. SEE SHEETS **A0.30** FOR RATED ASSEMBLIES
- C. ALL EXTERIOR COMMON USE DOOR THRESHOLDS TO BE ACCESSIBLE. ALL ACCESSIBLE ENTRANCES SHALL HAVE NO MORE THAN A 1/4" SLOPE FOR A DISTANCE OF 60" PERPENDICULAR TO THE DOOR.
- D. FIRE EXTINGUISHER CABINET (F.E.C.) LOCATIONS ARE APPROXIMATE UNLESS NOTED OTHERWISE. CONTRACTOR TO COORDINATE FINAL LOCATIONS TO NOT CONFLICT WITH WALL FRAMING, UTILITY ROUGH-INS, TRIMPANELING, ETC.
- E. COORDINATE SECURITY, IT & AV REQUIREMENTS WITH OWNER PRIOR TO CONSTRUCTION. PROVIDE CONDUIT AND PULL STRINGS AS NEEDED.
- F. PROVIDE CONTROL JOINTS IN ACCORDANCE WITH GA-216 IN ALL FULL HEIGHT GYPSUM BOARD PARTITIONS AND CEILINGS AT 30'-0" O.C. MAX. VERIFY FINAL LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
- G. CONTROL JOINTS AND EXPANSION JOINTS IN FIRE RATED PARTITIONS SHALL BE CONSTRUCTED TO MAINTAIN THE FIRE RATING OF THE PARTITION. CONTROL JOINTS AND EXPANSION JOINTS IN NON-RATED PARTITIONS SHALL BE CONSTRUCTED WITH SOUND ATTENUATION BLANKET MATERIAL WITHIN THE JOINT TO REDUCE SOUND TRANSMISSION.
- H. DOWNSPOUTS AT THE FRONT AND SIDES OF BUILDING SHALL DISCHARGE AWAY FROM BUILDING ON 12"X36" CONCRETE SPLASHBLOCKS.
- I. DOWNSPOUTS AT REAR OF BUILDING SHALL BE PIPED TO STORM DRAINS BELOW GRADE. SEE CIVIL DRAWINGS.



A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
• 03/23/24 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS

1 BUILDING TYPE C FIRST FLOOR PLAN

JOB NO. **740623** DATE **04.19.24**
DRAWN BY **SW EM KN**
CD SET/PERMIT

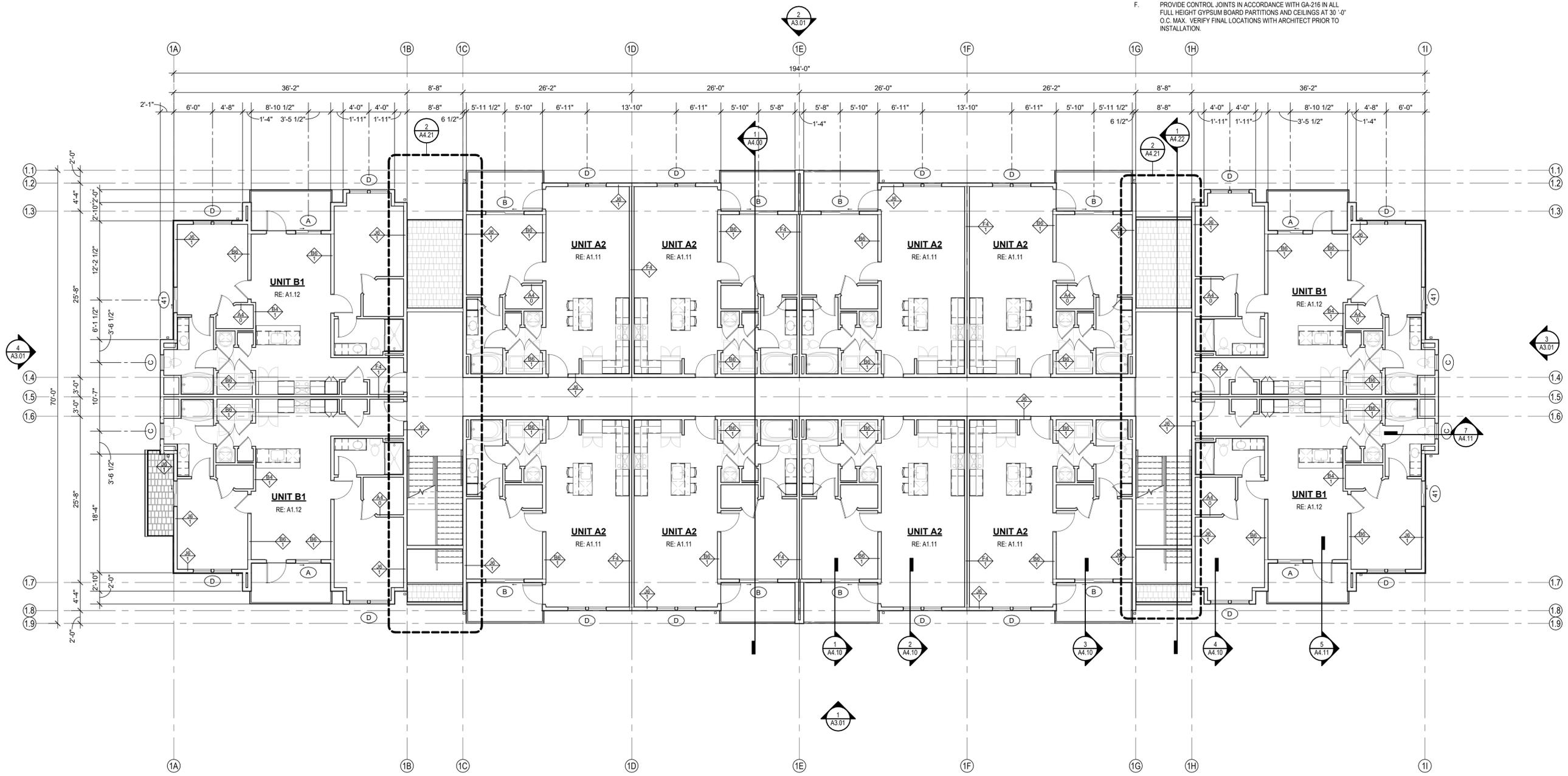
SHEET NAME
BUILDING TYPE C 1ST
FLOOR
SHEET NO.

A2.21



BUILDING FLOOR PLAN GENERAL NOTES:

- A. RATED ASSEMBLY TAGS ARE TYPICAL AT SIMILAR LOCATIONS NOT OTHERWISE NOTED.
- B. SEE SHEETS **A0.30** FOR RATED ASSEMBLIES
- C. ALL EXTERIOR COMMON USE DOOR THRESHOLDS TO BE ACCESSIBLE. ALL ACCESSIBLE ENTRANCES SHALL HAVE NO MORE THAN A 1:48 SLOPE FOR A DISTANCE OF 60" PERPENDICULAR TO THE DOOR.
- D. FIRE EXTINGUISHER CABINET (F.E.C.) LOCATIONS ARE APPROXIMATE UNLESS NOTED OTHERWISE. CONTRACTOR TO COORDINATE FINAL LOCATIONS TO NOT CONFLICT WITH WALL FRAMING, UTILITY ROUGH-INS, TRIMPANELING, ETC.
- E. COORDINATE SECURITY, IT & AV REQUIREMENTS WITH OWNER PRIOR TO CONSTRUCTION. PROVIDE CONDUIT AND PULL STRINGS AS NEEDED.
- F. PROVIDE CONTROL JOINTS IN ACCORDANCE WITH GA-216 IN ALL FULL HEIGHT GYPSUM BOARD PARTITIONS AND CEILINGS AT 30'-0" O.C. MAX. VERIFY FINAL LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
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- H. DOWNSPOUTS AT THE FRONT AND SIDES OF BUILDING SHALL DISCHARGE AWAY FROM BUILDING ON 12"X36" CONCRETE SPLASHBLOCKS.
- I. DOWNSPOUTS AT REAR OF BUILDING SHALL BE PIPED TO STORM DRAINS BELOW GRADE. SEE CIVIL DRAWINGS.



A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
 • 02/23/24 100% CD Set
 • 03/22/24 50% CD Set
 • 04/19/24 90% CD Set

REVISIONS

1 BUILDING TYPE C SECOND FLOOR PLAN

JOB NO. **740623** DATE **04.19.24**
 DRAWN BY **SW EM KN**
 CD SET/PERMIT

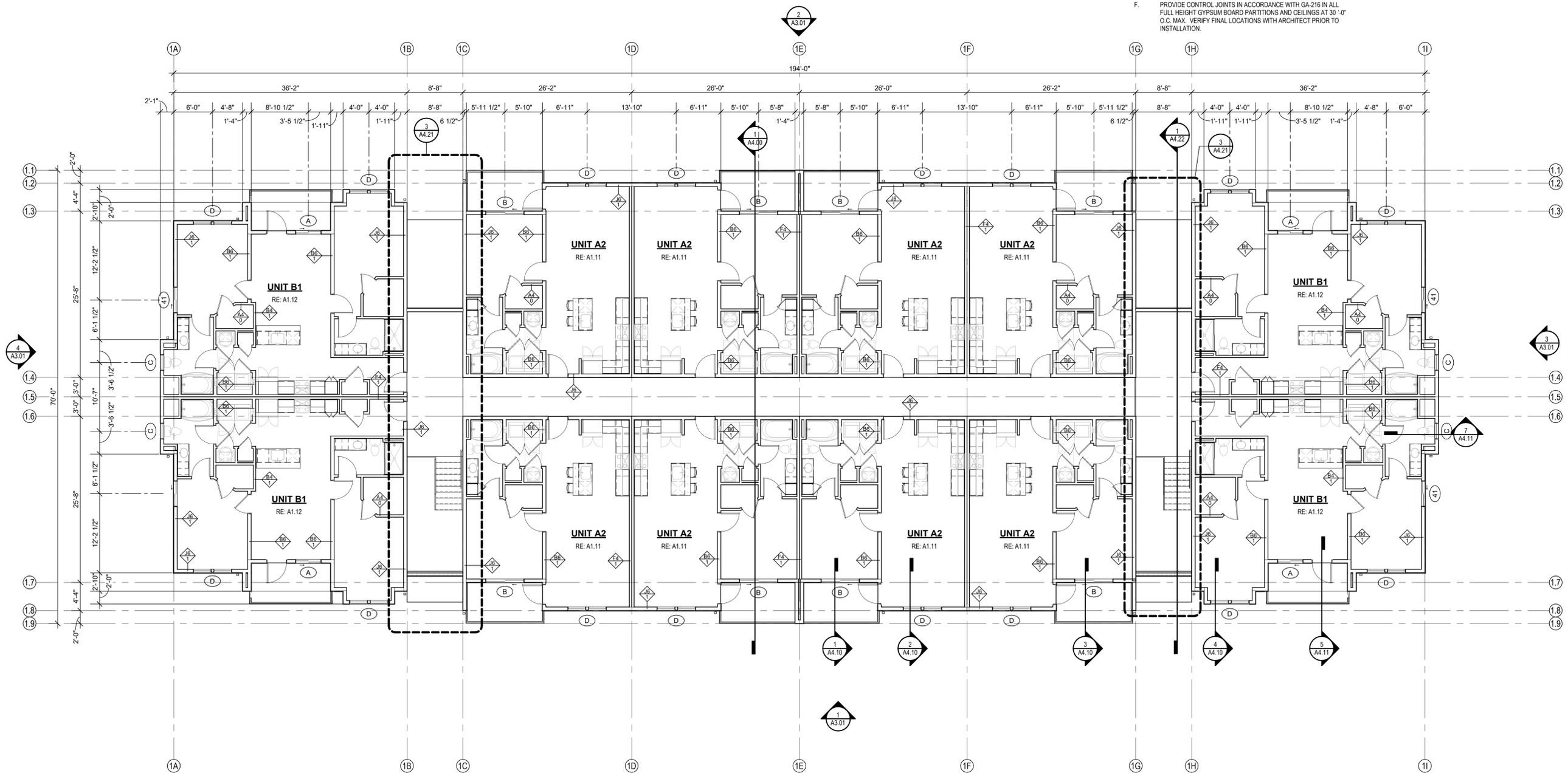
SHEET NAME
 BUILDING TYPE C 2ND
 FLOOR
 SHEET NO.

A2.22



BUILDING FLOOR PLAN GENERAL NOTES:

- A. RATED ASSEMBLY TAGS ARE TYPICAL AT SIMILAR LOCATIONS NOT OTHERWISE NOTED.
- B. SEE SHEETS **A0.30** FOR RATED ASSEMBLIES
- C. ALL EXTERIOR COMMON USE DOOR THRESHOLDS TO BE ACCESSIBLE. ALL ACCESSIBLE ENTRANCES SHALL HAVE NO MORE THAN A 1:48 SLOPE FOR A DISTANCE OF 60" PERPENDICULAR TO THE DOOR.
- D. FIRE EXTINGUISHER CABINET (F.E.C.) LOCATIONS ARE APPROXIMATE UNLESS NOTED OTHERWISE. CONTRACTOR TO COORDINATE FINAL LOCATIONS TO NOT CONFLICT WITH WALL FRAMING, UTILITY ROUGH-INS, TRIMPANELING, ETC.
- E. COORDINATE SECURITY, IT & AV REQUIREMENTS WITH OWNER PRIOR TO CONSTRUCTION. PROVIDE CONDUIT AND PULL STRINGS AS NEEDED.
- F. PROVIDE CONTROL JOINTS IN ACCORDANCE WITH GA-216 IN ALL FULL HEIGHT GYPSUM BOARD PARTITIONS AND CEILINGS AT 30'-0" O.C. MAX. VERIFY FINAL LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
- G. CONTROL JOINTS AND EXPANSION JOINTS IN FIRE RATED PARTITIONS SHALL BE CONSTRUCTED TO MAINTAIN THE FIRE RATING OF THE PARTITION. CONTROL JOINTS AND EXPANSION JOINTS IN NON-RATED PARTITIONS SHALL BE CONSTRUCTED WITH SOUND ATTENUATION BLANKET MATERIAL WITHIN THE JOINT TO REDUCE SOUND TRANSMISSION.
- H. DOWNSPOUTS AT THE FRONT AND SIDES OF BUILDING SHALL DISCHARGE AWAY FROM BUILDING ON 12"X36" CONCRETE SPLASHBLOCKS.
- I. DOWNSPOUTS AT REAR OF BUILDING SHALL BE PIPED TO STORM DRAINS BELOW GRADE. SEE CIVIL DRAWINGS.



A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
 • 02/23/24 100% CD Set
 • 03/22/24 50% CD Set
 • 04/19/24 90% CD Set

REVISIONS

1 BUILDING TYPE C THIRD FLOOR PLAN

JOB NO. **740623** DATE **04.19.24**
 DRAWN BY **SW EM KN**
 CD SET/PERMIT

SHEET NAME
 BUILDING TYPE C 3RD
 FLOOR
 SHEET NO.

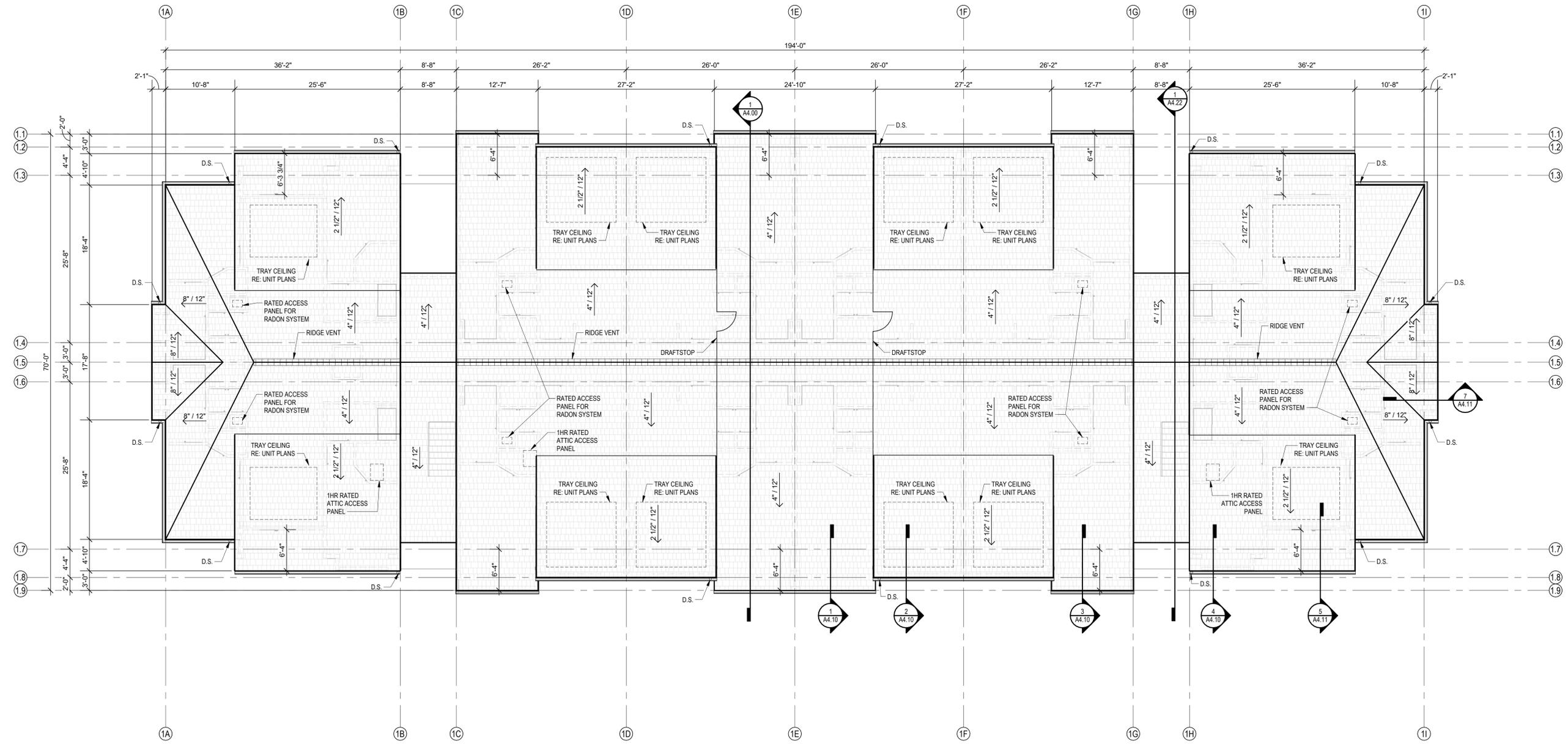
A2.23



ROOF VENT CALCULATOR - BUILDING TYPE C

Name	Area	Total Net Free Area of Venting Provided	Vented Area Percentage at Upper Roof Provided	UPPER VENTING		LOWER VENTING					
				Vented Net Free Area Per LF of Ridge Vent	Length of Ridge Vent Provided	Total Net Free Area of Upper Venting Provided	SOFFIT VENTING		STATIC VENT		Total Lower Venting Provided
							Vented Net Free Area Per LF of Vented Soffit	Vented Soffit Length Provided	Vented Net Free Area Per Lower Static Vent	Static Vents Provided	
DRAFTSTOP	2051 SF	1004 in²	25.23%	11 in²	22'-7"	248 in²	5 in²	31' - 2"	50 in²	12	756 in²
DRAFTSTOP	379 SF	200 in²	0.00%	11 in²	0"	0 in²	5 in²	0' - 0"	50 in²	4	200 in²
DRAFTSTOP	380 SF	200 in²	0.00%	11 in²	0"	0 in²	5 in²	0' - 0"	50 in²	4	200 in²
DRAFTSTOP	2618 SF	1262 in²	35.16%	11 in²	40'-2"	442 in²	5 in²	24' - 0"	50 in²	14	820 in²
DRAFTSTOP	1738 SF	857 in²	31.76%	11 in²	24'-1"	265 in²	5 in²	48' - 4"	50 in²	7	592 in²
DRAFTSTOP	2617 SF	1262 in²	35.17%	11 in²	40'-2"	442 in²	5 in²	24' - 0"	50 in²	14	820 in²
DRAFTSTOP	2051 SF	1004 in²	25.23%	11 in²	22'-7"	248 in²	5 in²	31' - 2"	50 in²	12	756 in²

- ROOF PLAN GENERAL NOTES:**
- REFER TO BUILDING ELEVATIONS FOR DOWNSPOUT LOCATIONS.
 - ALL OBJECTS INDICATED ON THE ROOF ARE GENERAL AND MUST BE COORDINATED WITH MEP AND STRUCTURAL ELEMENTS. REFER TO MEP DRAWINGS FOR ACTUAL MECHANICAL EQUIPMENT LOCATIONS.
 - ALL FLAT ROOFS SHALL SLOPE 1/4" PER FOOT MINIMUM.
 - ALL CRICKETS SHALL SLOPE 1/2" PER FOOT MINIMUM.
 - PROVIDE KICK-OUT FLASHING AT ALL ROOF TO SIDE-WALL CONDITIONS.
 - COORDINATE ALL ROOFING DETAILS WITH MANUFACTURER'S WARRANTED SYSTEM.



A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
 • 03/23/24 100% CD Set
 • 03/22/24 50% CD Set
 • 04/19/24 90% CD Set

REVISIONS

1 BUILDING TYPE C ROOF PLAN
1/8" = 1'-0"

JOB NO. **740623** DATE **04.19.24**
DRAWN BY **SW EM KN**
CD SET/PERMIT

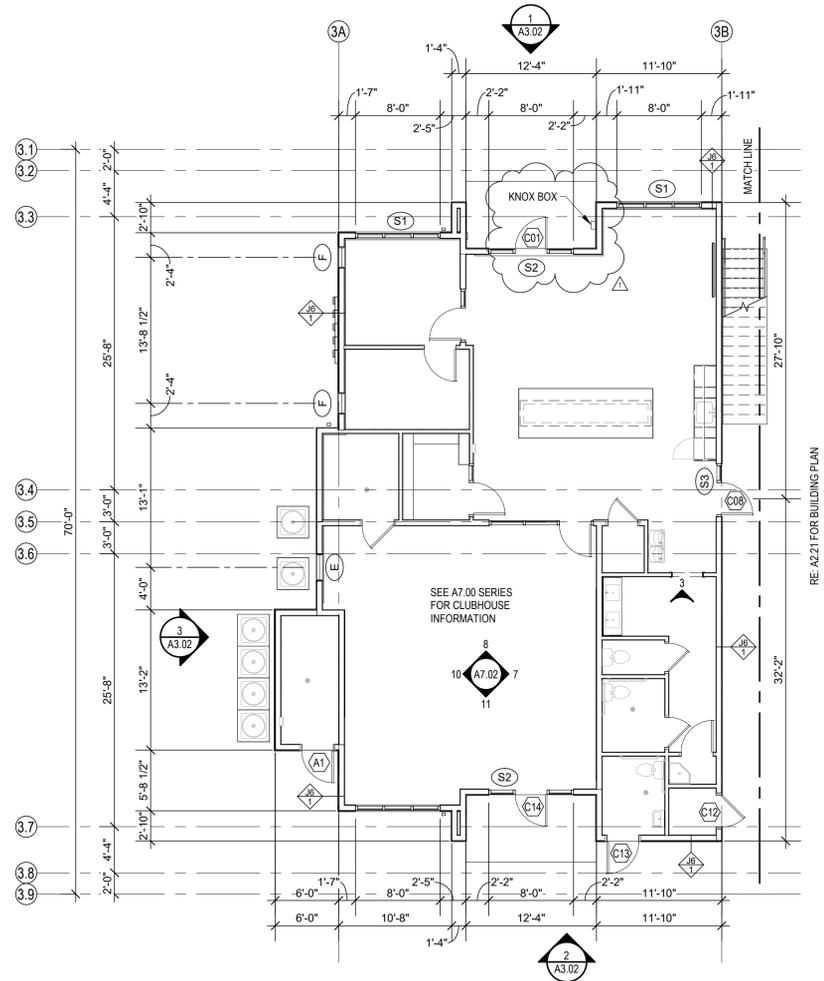
SHEET NAME
BUILDING TYPE C ROOF PLAN
SHEET NO.

A2.24

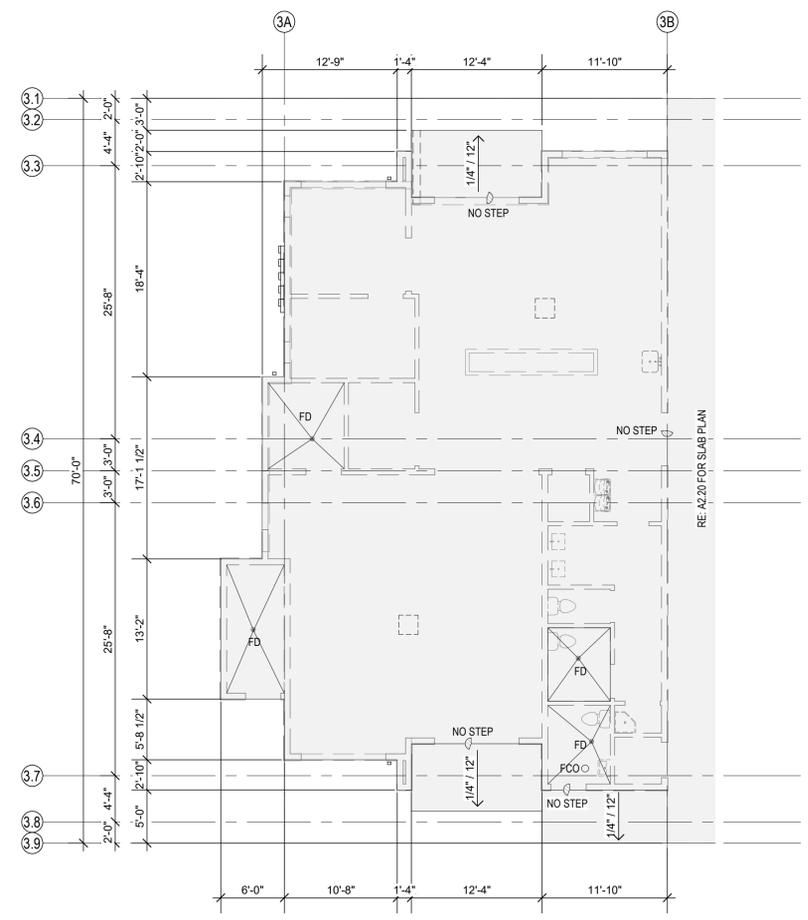


BUILDING FLOOR PLAN GENERAL NOTES:

- | | |
|---|---|
| <p>A. RATED ASSEMBLY TAGS ARE TYPICAL AT SIMILAR LOCATIONS NOT OTHERWISE NOTED.</p> <p>B. SEE SHEETS A0.30 FOR RATED ASSEMBLIES</p> <p>C. ALL EXTERIOR COMMON USE DOOR THRESHOLDS TO BE ACCESSIBLE. ALL ACCESSIBLE ENTRANCES SHALL HAVE NO MORE THAN A 1:48 SLOPE FOR A DISTANCE OF 60" PERPENDICULAR TO THE DOOR.</p> <p>D. FIRE EXTINGUISHER CABINET (F.E.C.) LOCATIONS ARE APPROXIMATE UNLESS NOTED OTHERWISE. CONTRACTOR TO COORDINATE FINAL LOCATIONS TO NOT CONFLICT WITH WALL FRAMING, UTILITY ROUGH-INS, TRIM/PANELING, ETC.</p> <p>E. COORDINATE SECURITY, IT & AV REQUIREMENTS WITH OWNER PRIOR TO CONSTRUCTION. PROVIDE CONDUIT AND PULL STRINGS AS NEEDED.</p> <p>F. PROVIDE CONTROL JOINTS IN ACCORDANCE WITH GA-216 IN ALL FULL HEIGHT GYPSUM BOARD PARTITIONS AND CEILINGS AT 30'-0" O.C. MAX. VERIFY FINAL LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.</p> | <p>G. CONTROL JOINTS AND EXPANSION JOINTS IN FIRE RATED PARTITIONS SHALL BE CONSTRUCTED TO MAINTAIN THE FIRE RATING OF THE PARTITION. CONTROL JOINTS AND EXPANSION JOINTS IN NON-RATED PARTITIONS SHALL BE CONSTRUCTED WITH SOUND ATTENUATION BLANKET MATERIAL WITHIN THE JOINT TO REDUCE SOUND TRANSMISSION.</p> <p>H. DOWNSPOUTS AT THE FRONT AND SIDES OF BUILDING SHALL DISCHARGE AWAY FROM BUILDING ON 12"X36" CONCRETE SPLASHBLOCKS.</p> <p>I. DOWNSPOUTS AT REAR OF BUILDING SHALL BE PIPED TO STORM DRAINS BELOW GRADE. SEE CIVIL DRAWINGS.</p> |
|---|---|



2 CLUBHOUSE FIRST FLOOR PLAN
1/8" = 1'-0"



1 CLUBHOUSE SLAB PLAN
1/8" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG

- 03/23/24 100% CD Set
- 03/22/24 50% CD Set
- 04/19/24 90% CD Set

REVISIONS
 1 9/27/24 CITY COMMENT RESPONSES

JOB NO. **740623** DATE **04.19.24**
 DRAWN BY **SW EM KN**
 CD SET/PERMIT

SHEET NAME
 BUILDING TYPE C-ALT
 PLANS
 SHEET NO.

A2.30



4 BUILDING TYPE A - LEFT ELEVATION (BUILDING #3 & #4)
1/8" = 1'-0"



3 BUILDING TYPE A - RIGHT ELEVATION (BUILDING #3 & #4)
1/8" = 1'-0"

- ELEVATIONS GENERAL NOTES:**
- A. REFER TO SHEET **A6.10** FOR TYPICAL EXTERIOR CLADDING TRANSITIONS.
 - B. ALL EXTERIOR WALL LIGHT FIXTURES THAT PROJECT MORE THAN 4" FROM FACE OF WALL TO BE MOUNTED WHERE BOTTOM OF LIGHT FIXTURE IS 6'-8" AFF MIN.
 - C. ALL TRIM TO BE FIBER CEMENT U.N.O.

EXTERIOR MATERIAL LEGEND:

- 1 BOARD & BATTEN - WHITE SNOWBOUND SW 7004
- 2 LAP SIDING - GREY MISTY SW 6232
- 3 LAP SIDING - BLUE SMOKY BLUE SW 7604
- 4 BRICK AND/OR STONE AS CHOSEN BY THE DEVELOPER
- 5 ASPHALT SHINGLES
- 6 STANDING SEAM METAL ROOF



2 BUILDING TYPE A - REAR ELEVATION (BUILDING #3 & #4)
1/8" = 1'-0"



1 BUILDING TYPE A - FRONT ELEVATION (BUILDING #3 & #4)
1/8" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
• 02/23/24 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS

JOB NO. **740623** DATE **04.19.24**
DRAWN BY **SW EM KN**
CD SET/PERMIT

SHEET NAME **BUILDING TYPE A ELEVATIONS**
SHEET NO.

A3.00



ELEVATIONS GENERAL NOTES:

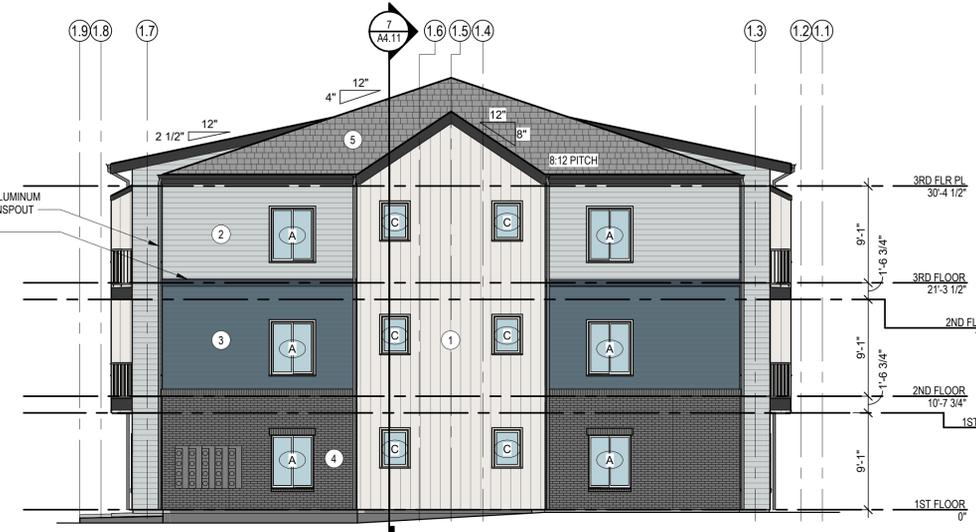
- A. REFER TO SHEET A3.10 FOR TYPICAL EXTERIOR CLADDING TRANSITIONS.
- B. ALL EXTERIOR WALL LIGHT FIXTURES THAT PROJECT MORE THAN 4" FROM FACE OF WALL TO BE MOUNTED WHERE BOTTOM OF LIGHT FIXTURE IS 6'-8" AFF MIN.
- C. ALL TRIM TO BE FIBER CEMENT U.N.O.

EXTERIOR MATERIAL LEGEND:

- 1 BOARD & BATTEN - WHITE SNOWBOUND SW 7004
- 2 LAP SIDING - GREY MISTY SW 6232
- 3 LAP SIDING - BLUE SMOKY BLUE SW 7604
- 4 BRICK AND/OR STONE AS CHOSEN BY THE DEVELOPER
- 5 ASPHALT SHINGLES
- 6 STANDING SEAM METAL ROOF



4 BUILDING TYPE C - LEFT ELEVATION (BUILDING #1 & #2)
1/8" = 1'-0"



3 BUILDING TYPE C - RIGHT ELEVATION (BUILDING #1 & #2)
1/8" = 1'-0"



2 BUILDING TYPE C - REAR ELEVATION (BUILDING #1 & #2)
1/8" = 1'-0"



1 BUILDING TYPE C - FRONT ELEVATION (BUILDING #1 & #2)
1/8" = 1'-0"



ELEVATIONS GENERAL NOTES:

- A. REFER TO SHEET A&10 FOR TYPICAL EXTERIOR CLADDING TRANSITIONS.
- B. ALL EXTERIOR WALL LIGHT FIXTURES THAT PROJECT MORE THAN 4" FROM FACE OF WALL TO BE MOUNTED WHERE BOTTOM OF LIGHT FIXTURE IS 6'-8" AFF MIN.
- C. ALL TRIM TO BE FIBER CEMENT U.N.O.

EXTERIOR MATERIAL LEGEND:

- 1 BOARD & BATTEN - WHITE SNOWBOUND SW 7004
- 2 LAP SIDING - GREY MISTY SW 6232
- 3 LAP SIDING - BLUE SMOKY BLUE SW 7604
- 4 BRICK AND/OR STONE AS CHOSEN BY THE DEVELOPER
- 5 ASPHALT SHINGLES
- 6 STANDING SEAM METAL ROOF



2 CLUBHOUSE - BACK ELEVATION (BUILDING #5, TYPE C)
1/8" = 1'-0"



3 CLUBHOUSE - SIDE ELEVATION (BUILDING #5, TYPE C)
1/8" = 1'-0"



1 CLUBHOUSE - FRONT ELEVATION (BUILDING #5, TYPE C)
1/8" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

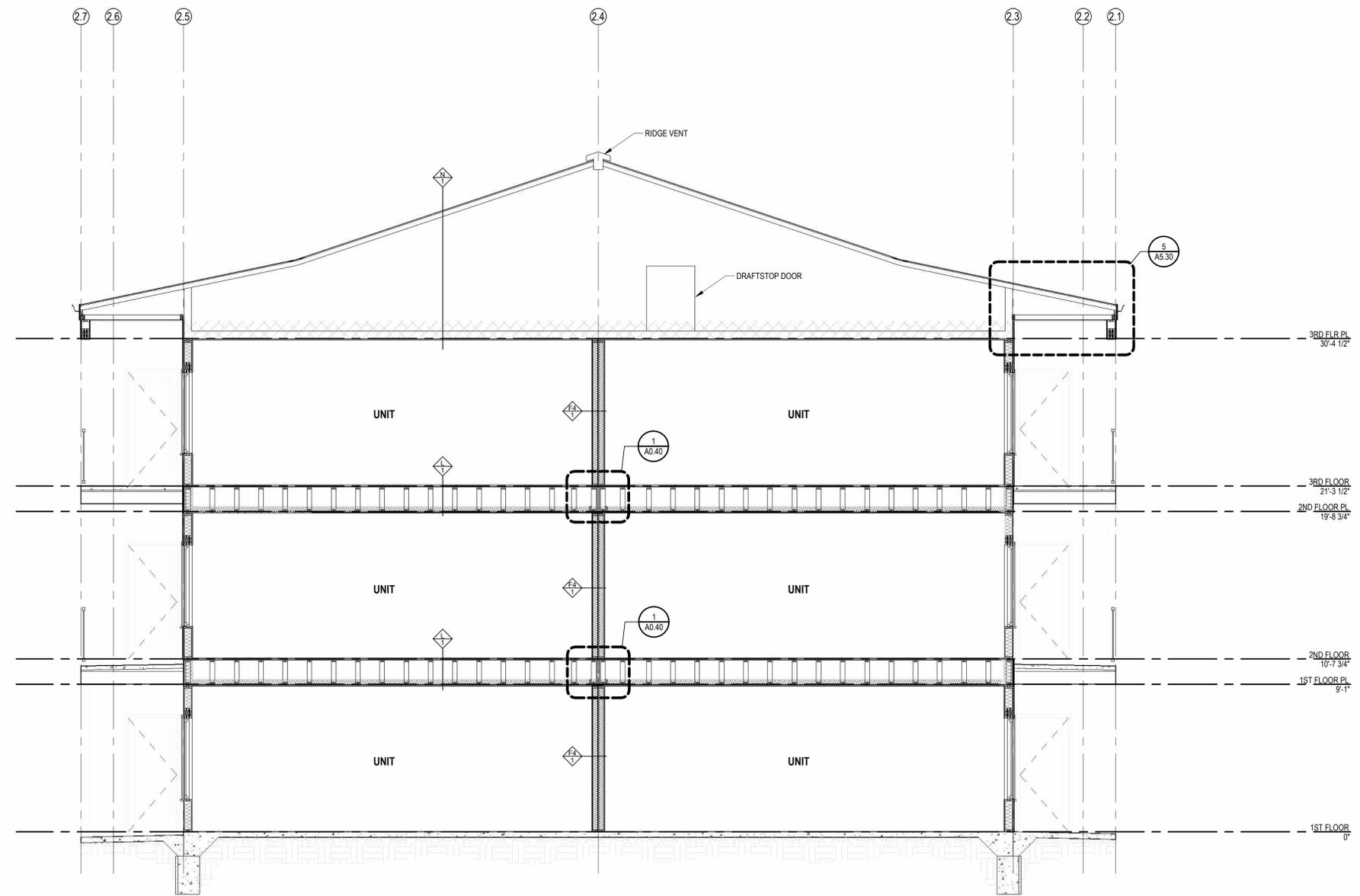
DRAWING RELEASE LOG
• 02/23/24 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS

JOB NO. 740623 DATE 04.19.24
DRAWN BY SW EM KN
CD SET/PERMIT

SHEET NAME BUILDING TYPE C-ALT EXTERIOR ELEVATIONS
SHEET NO.

A3.02



1 BUILDING SECTION
1/4" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

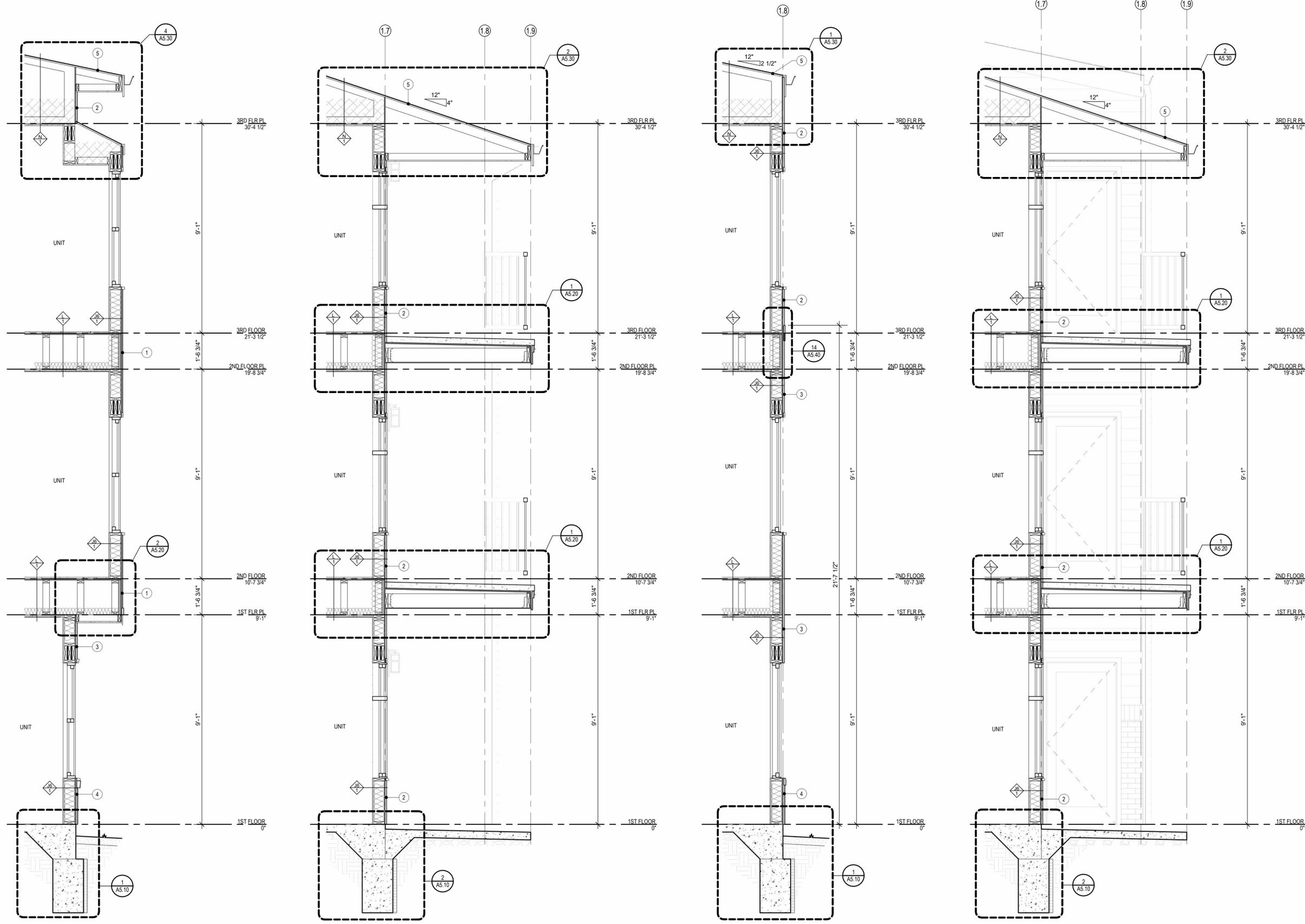
DRAWING RELEASE LOG
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• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

△ REVISIONS

JOB NO. **740623** DATE **04.19.24**
DRAWN BY **SW EM KN**
CD SET/PERMIT

SHEET NAME
BUILDING SECTION

SHEET NO.
A4.00



4 WALL SECTION
1/2" = 1'-0"

3 WALL SECTION
1/2" = 1'-0"

2 WALL SECTION
1/2" = 1'-0"

1 WALL SECTION
1/2" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

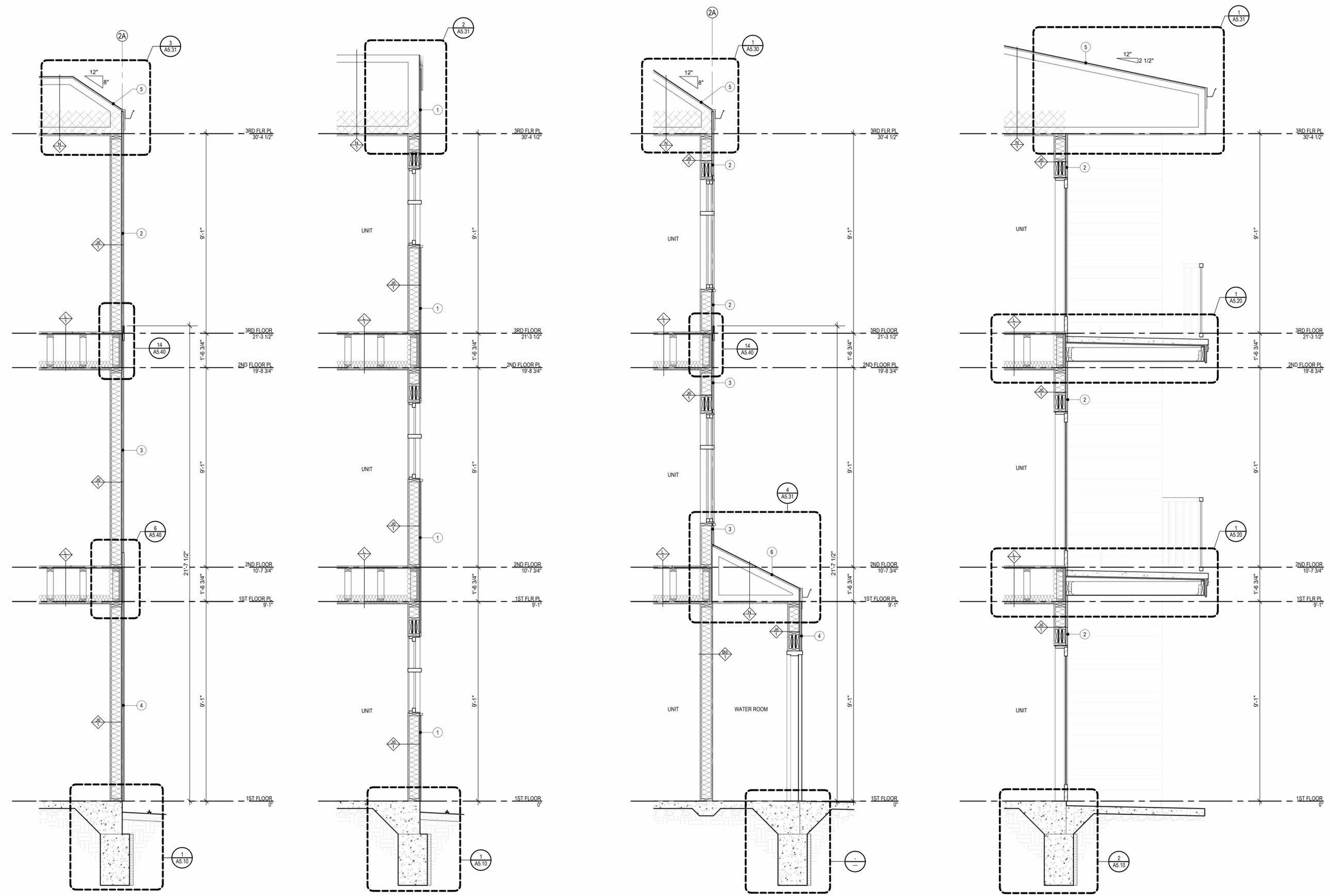
DRAWING RELEASE LOG
● 02/23/24 100% CD Set
● 03/22/24 50% CD Set
● 04/19/24 90% CD Set

REVISIONS

JOB NO. 740623 DATE 04.19.24
DRAWN BY SW EM KN
CD SET/PERMIT

SHEET NAME WALL SECTIONS

SHEET NO. A4.10



8 WALL SECTION
1/2" = 1'-0"

7 WALL SECTION
1/2" = 1'-0"

6 WALL SECTION
1/2" = 1'-0"

5 WALL SECTION
1/2" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

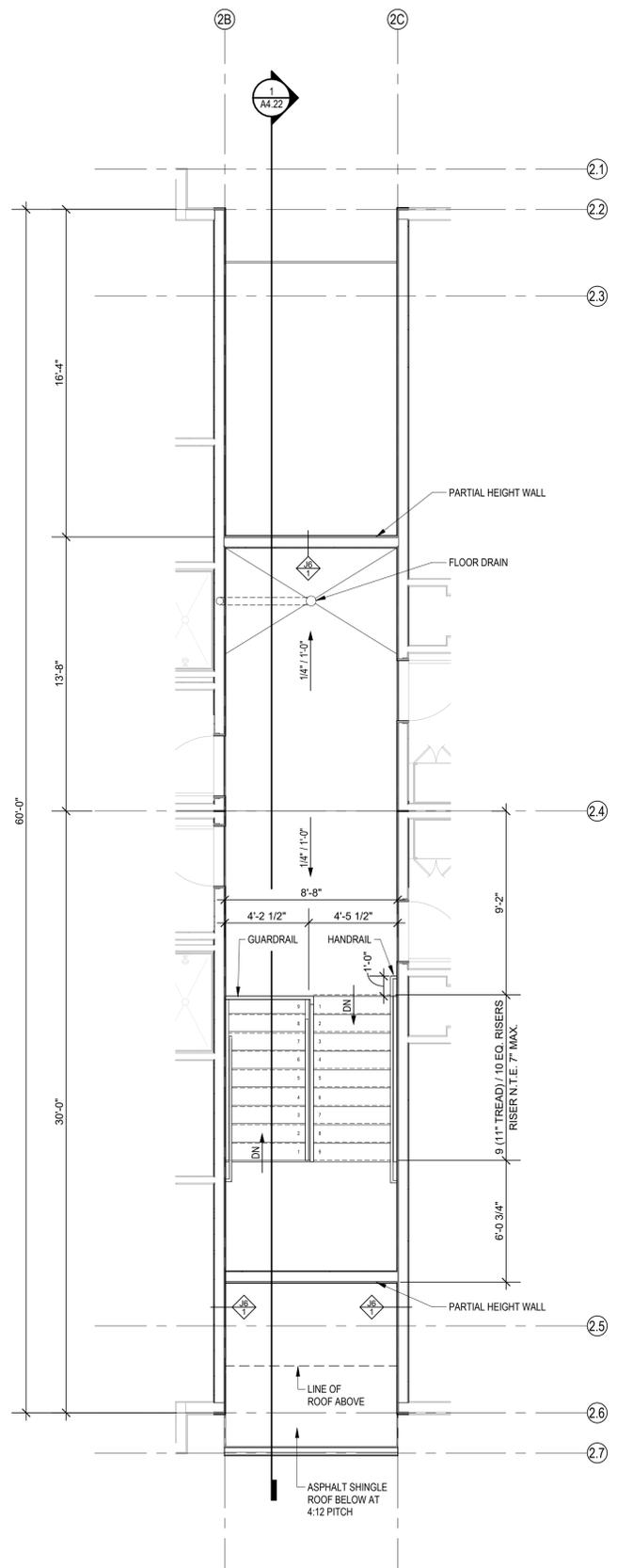
DRAWING RELEASE LOG
 • 03/23/24 100% CD Set
 • 03/22/24 50% CD Set
 • 04/19/24 90% CD Set

△ REVISIONS

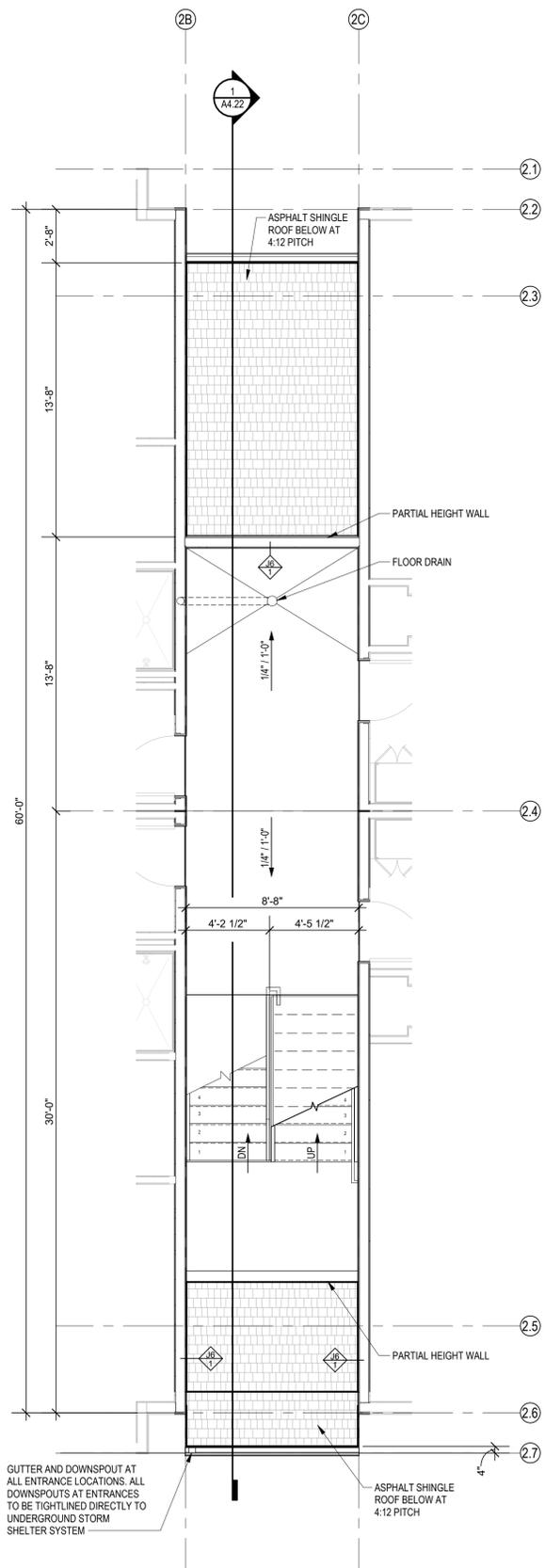
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 DRAWN BY SW EM KN
 CD SET/PERMIT

SHEET NAME WALL SECTIONS

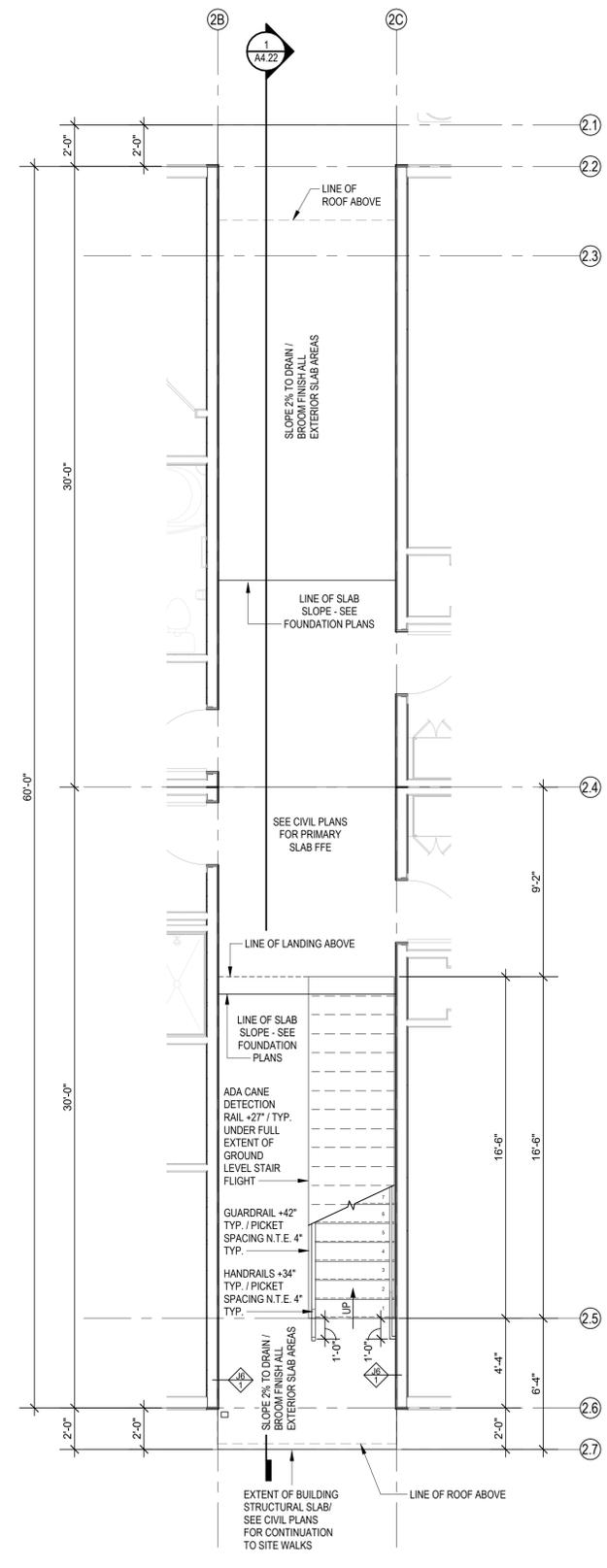
SHEET NO. **A4.11**



3 BUILDING TYPE A - 3RD FLOOR STAIR PLAN
1/4" = 1'-0"



2 BUILDING TYPE A - 2ND FLOOR STAIR PLAN
1/4" = 1'-0"



1 BUILDING TYPE A - 1ST FLOOR STAIR PLAN
1/4" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
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LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG

05/23/24 100% CD Set
03/22/24 50% CD Set
04/19/24 90% CD Set

REVISIONS

JOB NO. **740623** DATE **04.19.24**
DRAWN BY **SW EM KN**
CD SET/PERMIT

SHEET NAME
STAIR PLANS

SHEET NO.
A4.20



A NEW APARTMENT COMMUNITY AT:
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LEE'S SUMMIT, MO 64086

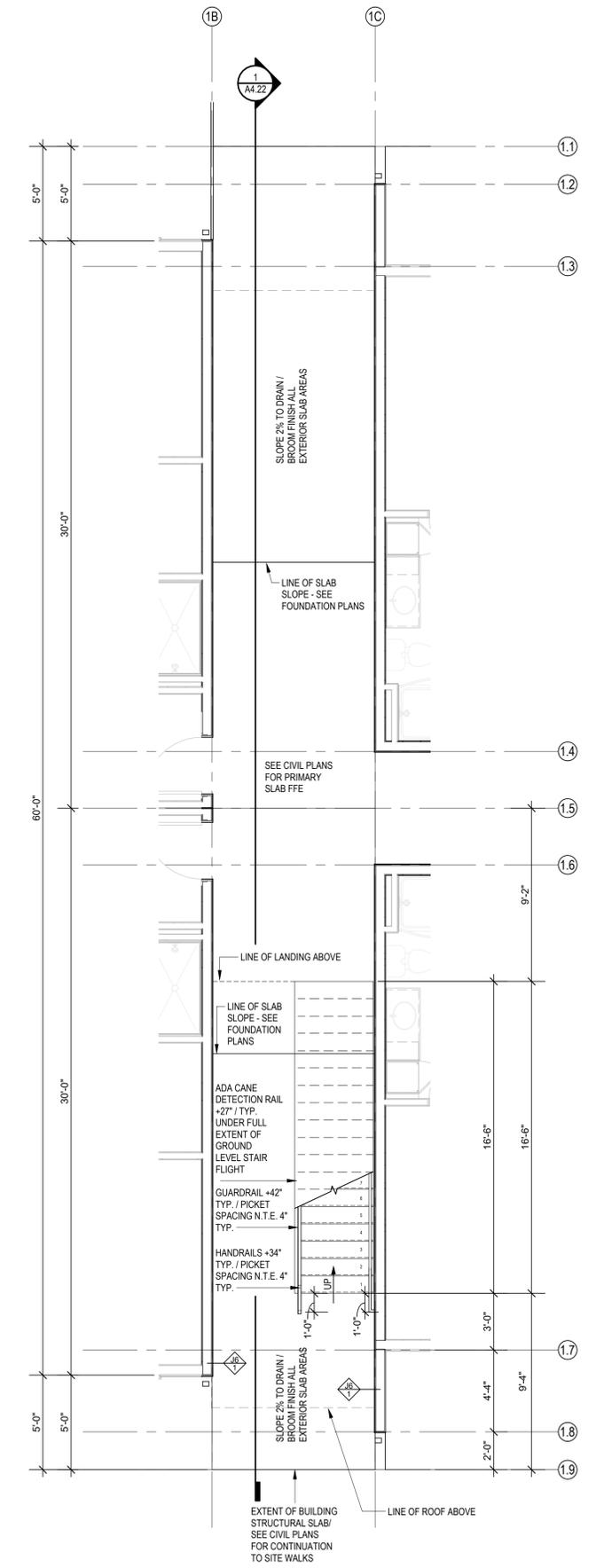
DRAWING RELEASE LOG
• 03/23/24 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS

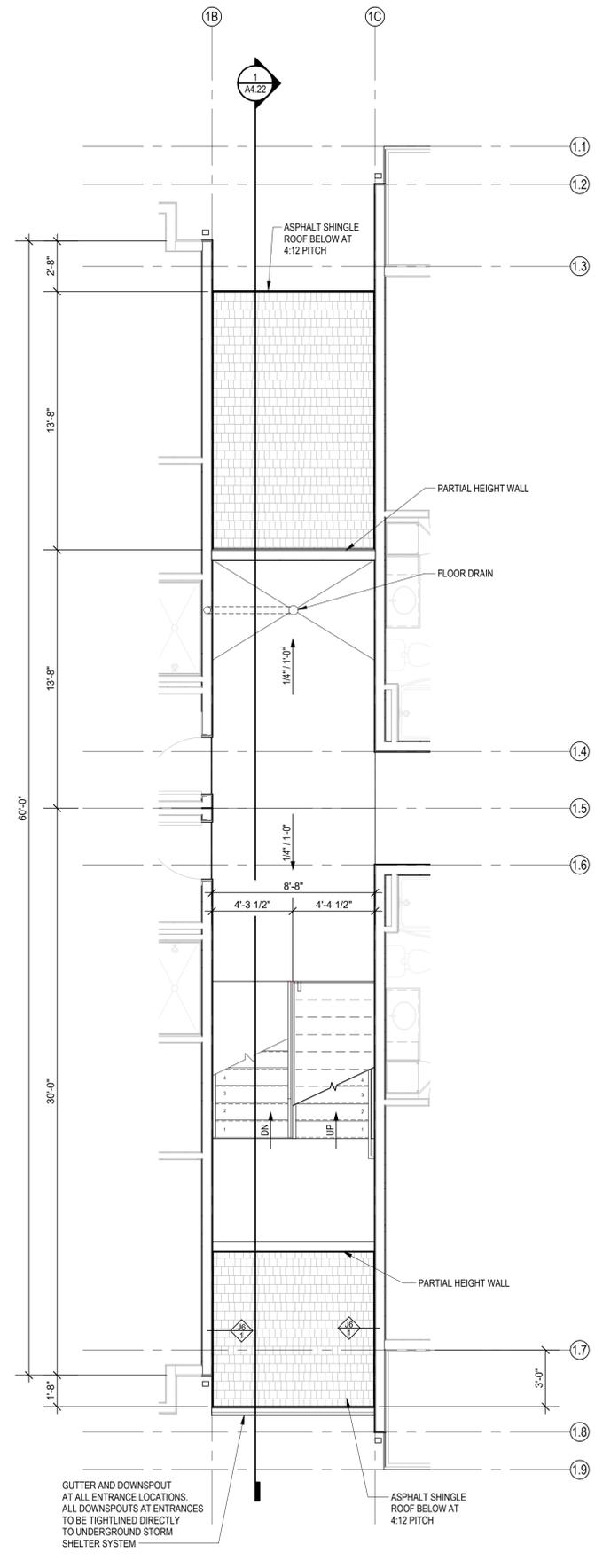
JOB NO. 740623 DATE 04.19.24
DRAWN BY SW EM KN
CD SET/PERMIT

SHEET NAME STAIR PLANS

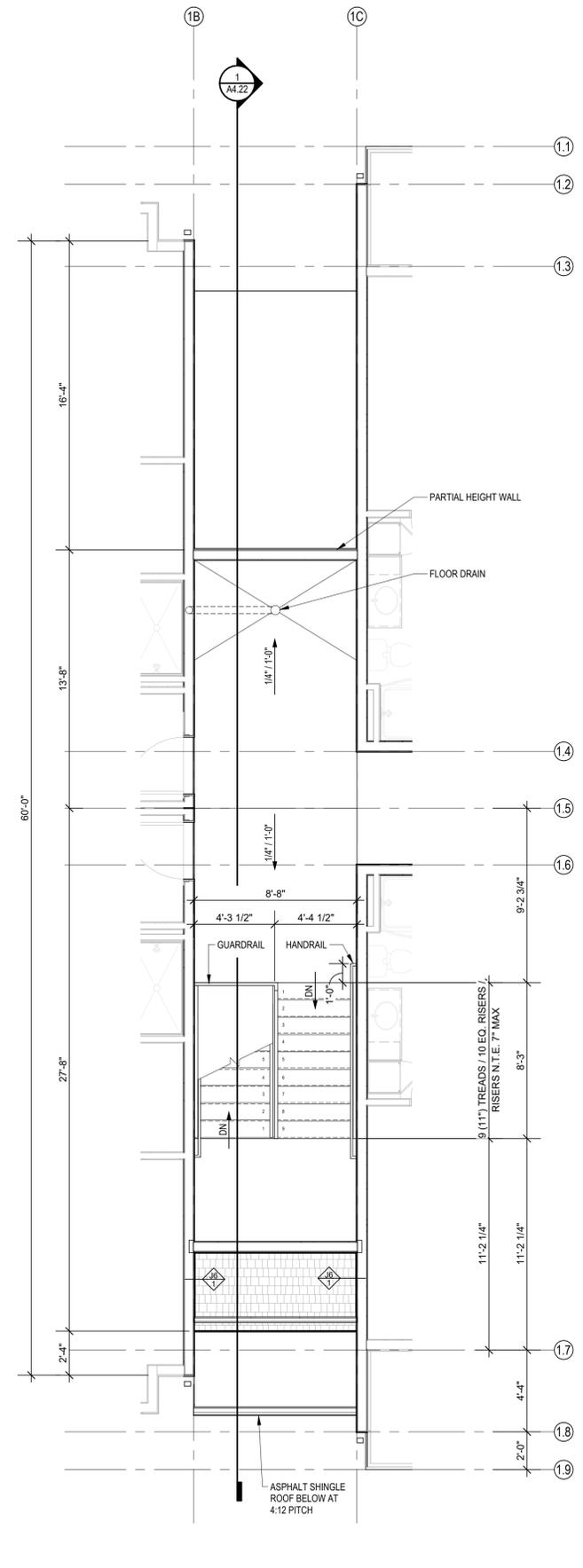
SHEET NO. **A4.21**



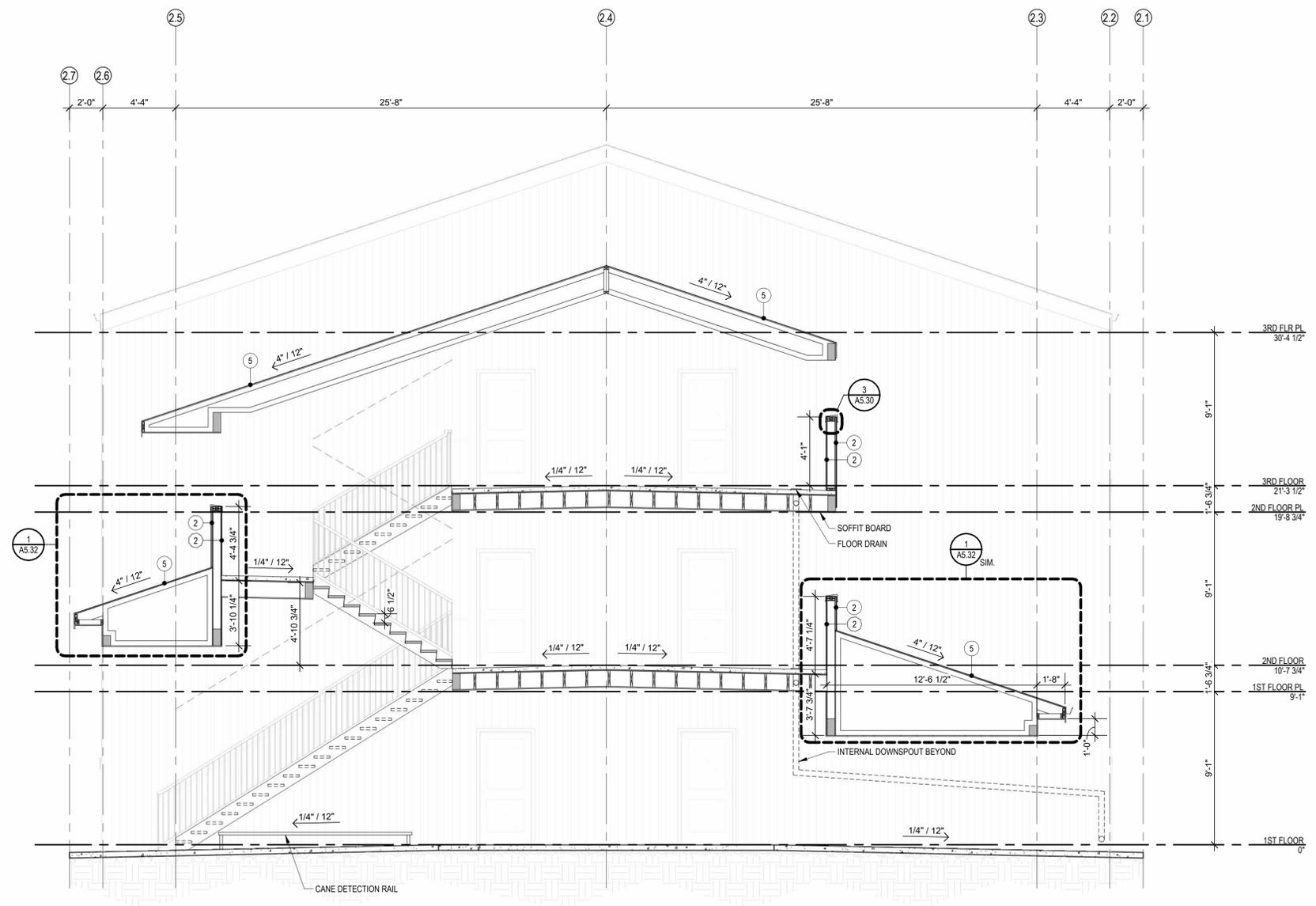
1 BUILDING TYPE C - 1ST FLOOR STAIR PLAN
1/4" = 1'-0"



2 BUILDING TYPE C - 2ND FLOOR STAIR PLAN
1/4" = 1'-0"



3 BUILDING TYPE C - 3RD FLOOR STAIR PLAN
1/4" = 1'-0"



1 TYPICAL STAIR SECTION
1/4" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
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DRAWING RELEASE LOG
 • 02/23/24 100% CD Set
 • 03/22/24 50% CD Set
 • 04/19/24 90% CD Set

△ REVISIONS

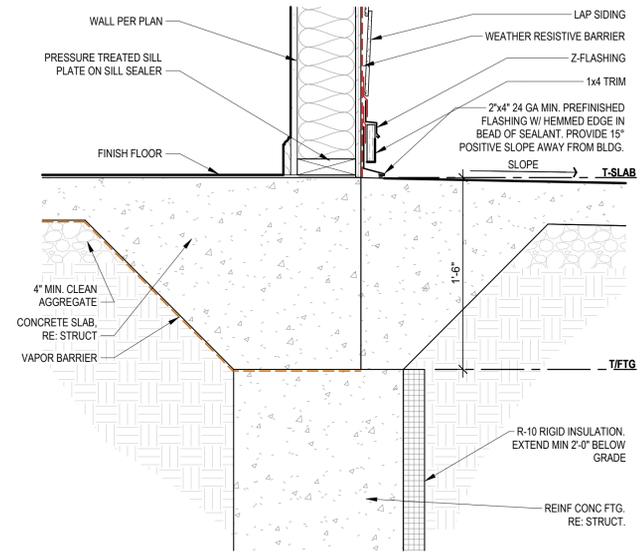
JOB NO. 740623 DATE 04.19.24
 DRAWN BY SW EM KN
 CD SET/PERMIT

SHEET NAME
STAIR SECTION

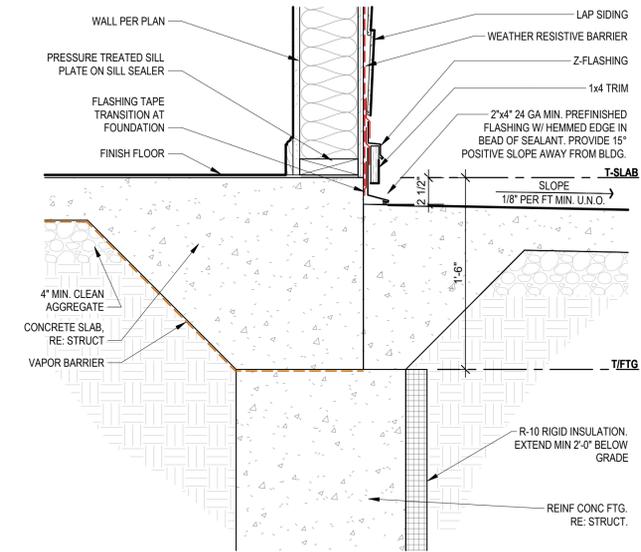
SHEET NO.
A4.22



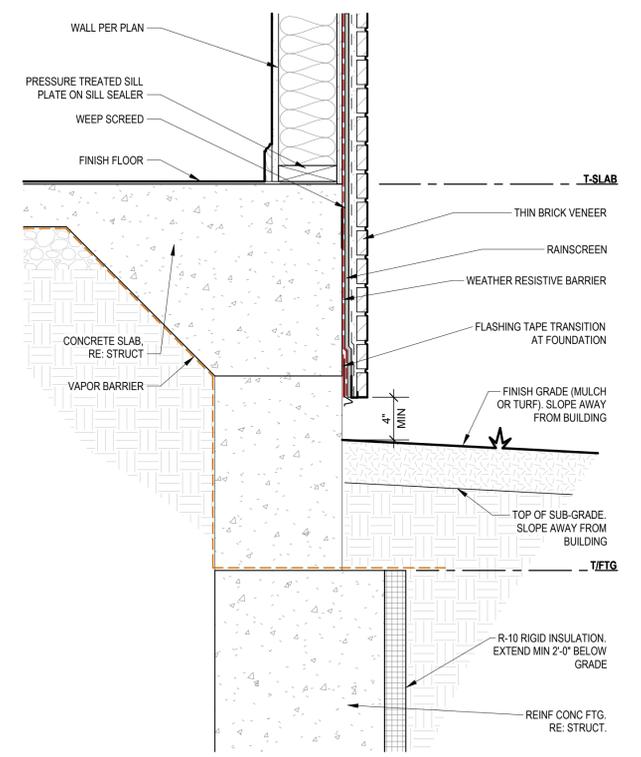
- DETAIL GENERAL NOTES:**
- A. FOLLOW ALL MANUFACTURER WRITTEN INSTALLATION INSTRUCTIONS. IF DETAIL CONFLICTS WITH MANUFACTURER, NOTIFY ARCHITECT IMMEDIATELY.
 - B. "SYSTEM" REFERS TO ALL NECESSARY PRODUCTS AND MATERIALS FOR FULL INSTALLATION.
 - C. PROVIDE SEALANT BETWEEN ALL DISSIMILAR MATERIALS WHERE INDICATED AND WHERE REQUIRED TO PROVIDE A WATERTIGHT ENVELOPE, UNLESS NOTED OTHERWISE FOR WEEPS, VENTS, AND AIR GAPS.



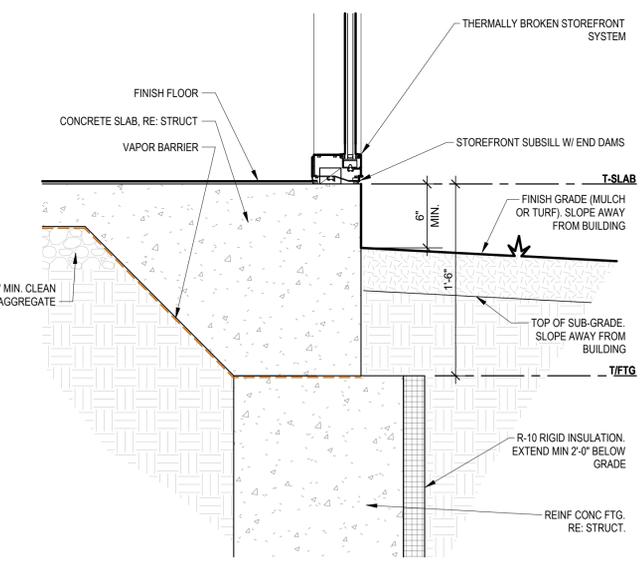
4 FOUNDATION AT TYPE "A" PATIO - LAP SIDING
1 1/2" = 1'-0"



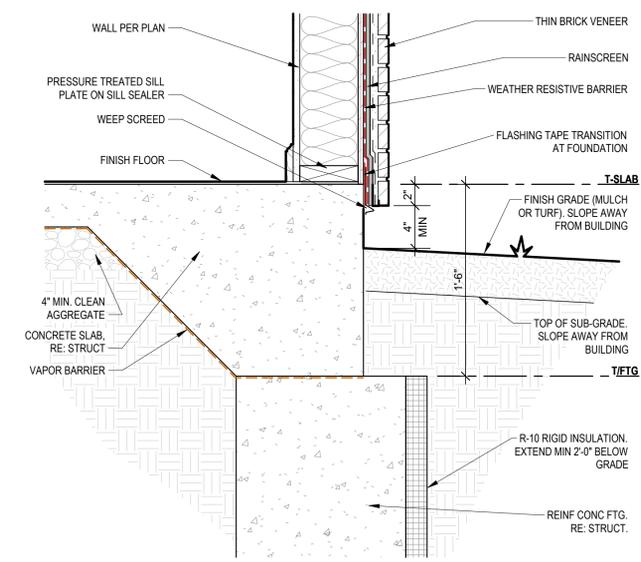
2 FOUNDATION AT TYPE "B" PATIO - LAP SIDING
1 1/2" = 1'-0"



5 FOUNDATION AT THIN BRICK
1 1/2" = 1'-0"



3 FOUNDATION AT STOREFRONT
1 1/2" = 1'-0"



1 FOUNDATION AT THIN BRICK
1 1/2" = 1'-0"

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REVISIONS

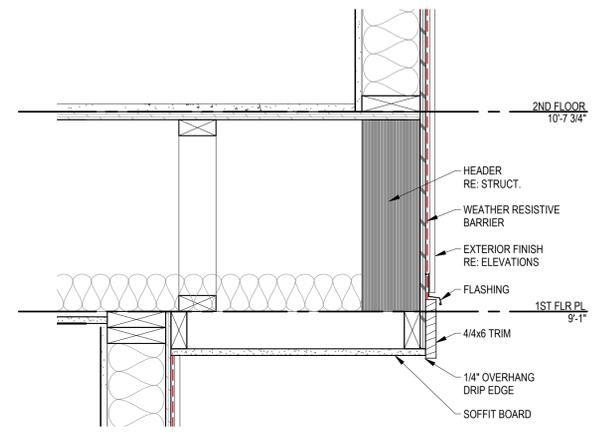
JOB NO. **740623** DATE **04.19.24**
DRAWN BY **SW EM KN**
CD SET/PERMIT

SHEET NAME
FOUNDATION DETAILS

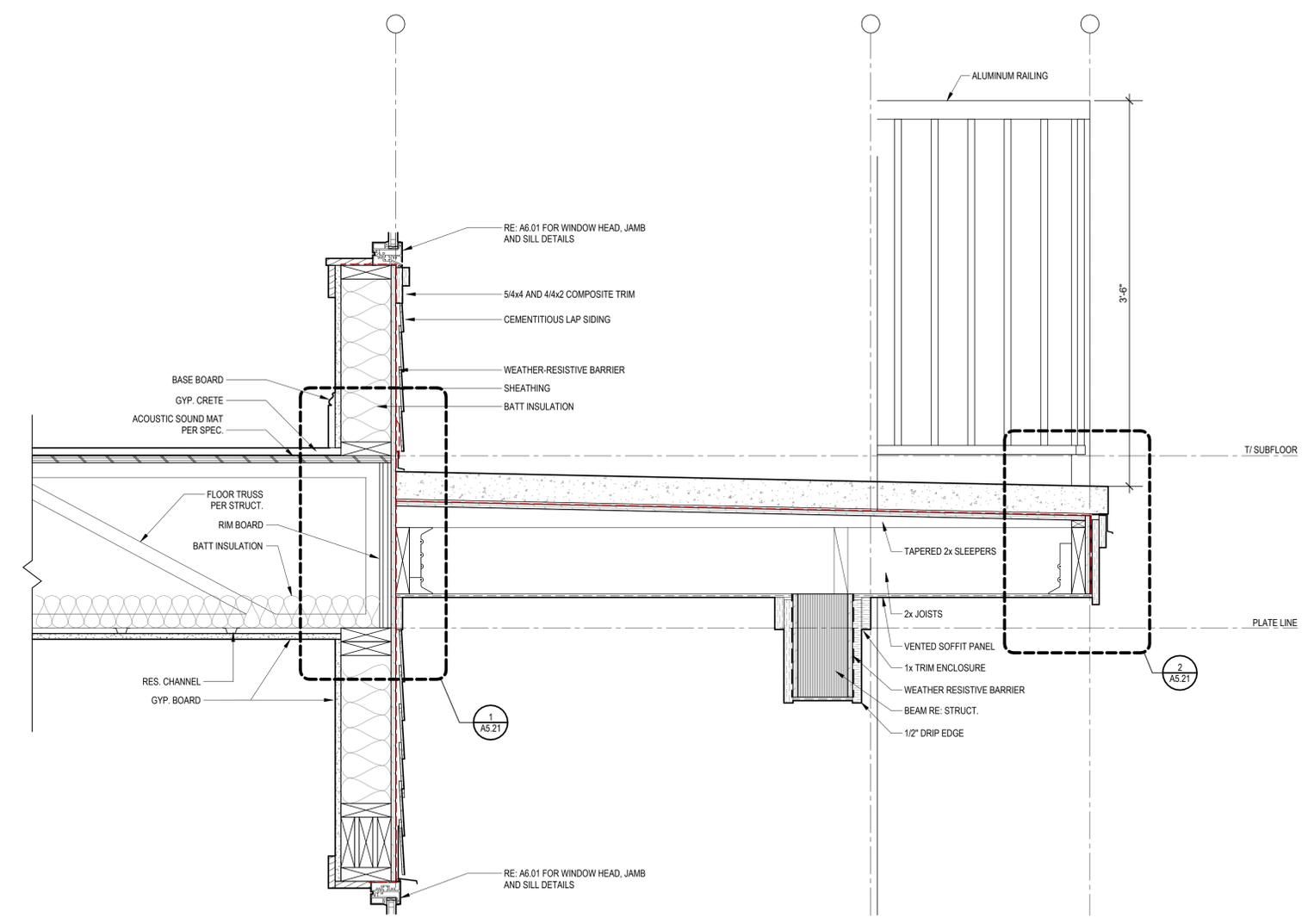
SHEET NO.
A5.10



- DETAIL GENERAL NOTES:**
- A. FOLLOW ALL MANUFACTURER WRITTEN INSTALLATION INSTRUCTIONS. IF DETAIL CONFLICTS WITH MANUFACTURER, NOTIFY ARCHITECT IMMEDIATELY.
 - B. "SYSTEM" REFERS TO ALL NECESSARY PRODUCTS AND MATERIALS FOR FULL INSTALLATION.
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2 CANTILEVER DETAIL
1 1/2" = 1'-0"



1 BALCONY DETAIL
1 1/2" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
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LEE'S SUMMIT, MO 64086

- DRAWING RELEASE LOG**
- 02/23/24 100% CD Set
 - 03/22/24 50% CD Set
 - 04/19/24 90% CD Set

△ REVISIONS

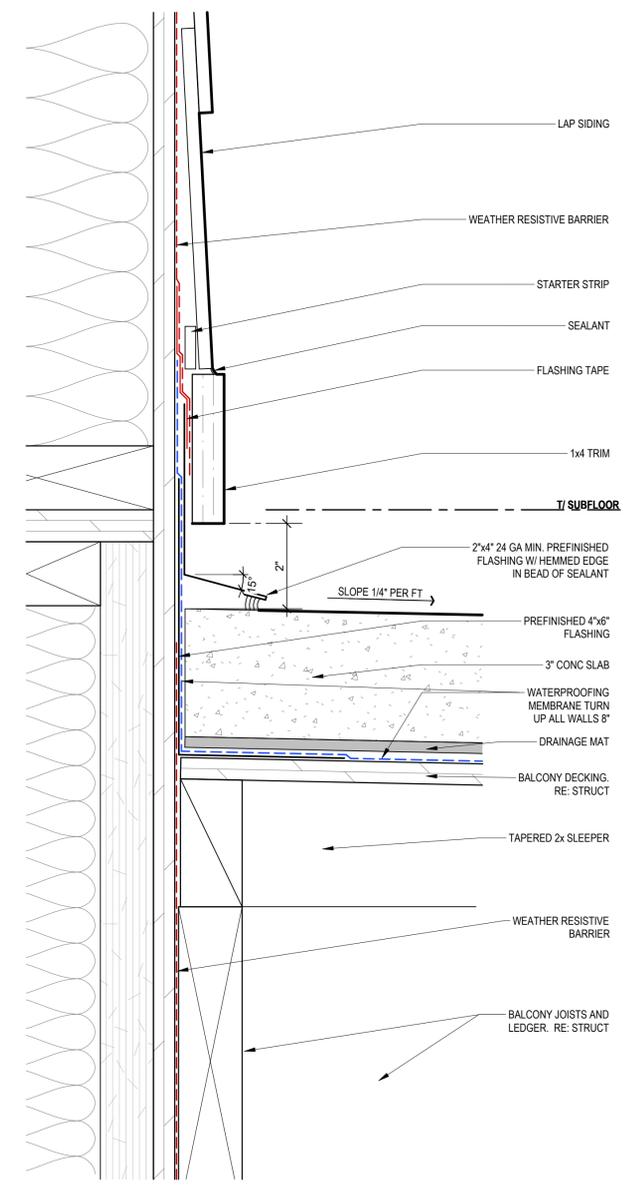
JOB NO. **740623** DATE **04.19.24**
DRAWN BY **SW EM KN**
CD SET/PERMIT

SHEET NAME
EXTERIOR WALL DETAILS

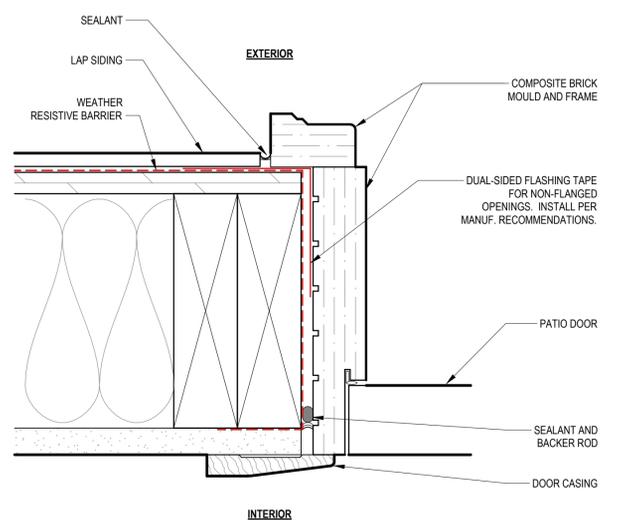
SHEET NO.
A5.20



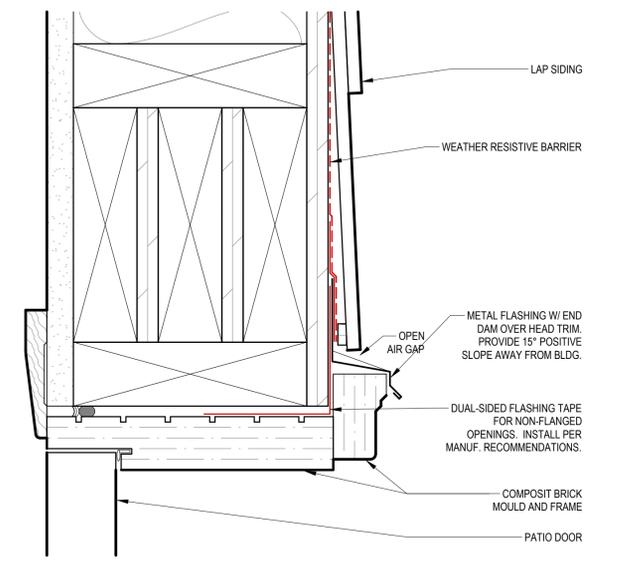
DETAIL GENERAL NOTES:
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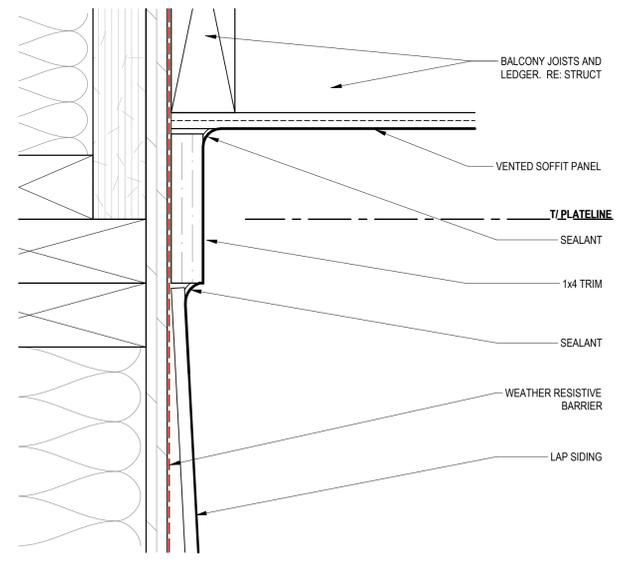
5 ENLARGED BALCONY WALL AT LAP SIDING
6" = 1'-0"



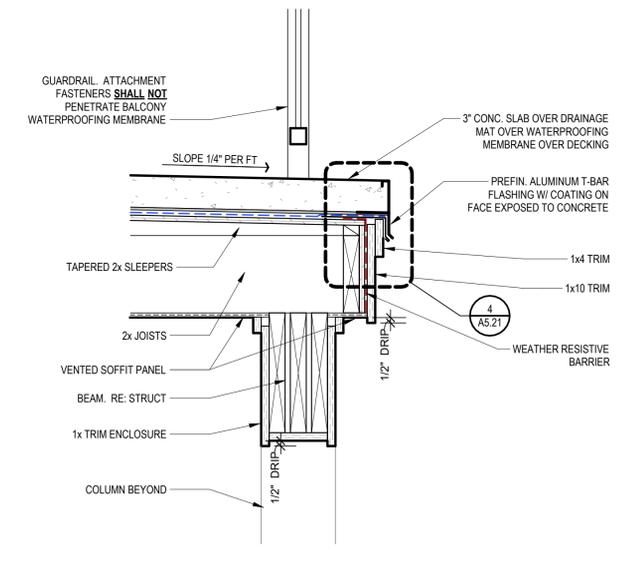
6 PATIO DOOR JAMB AT LAP SIDING
6" = 1'-0"



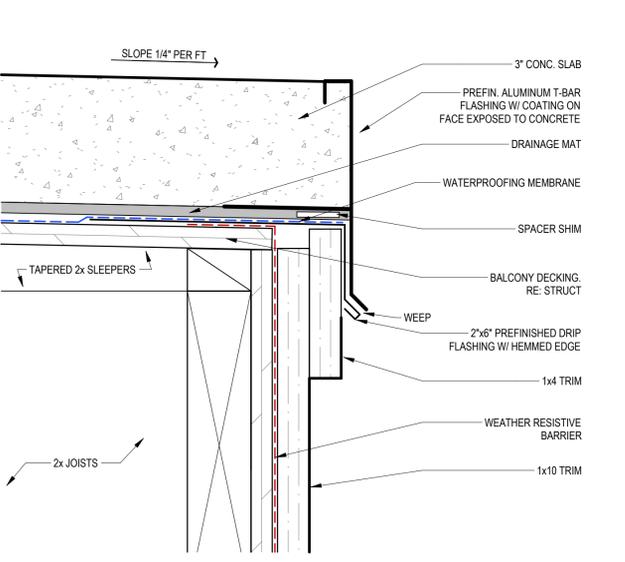
7 PATIO DOOR HEAD AT LAP SIDING
6" = 1'-0"



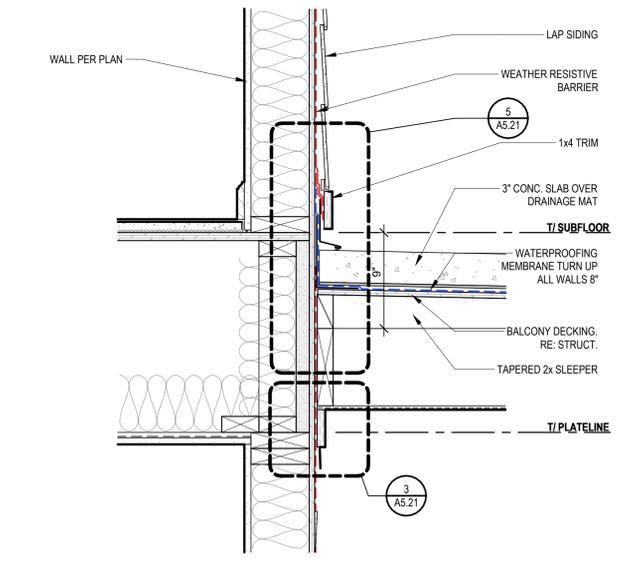
3 BALCONY SOFFIT AT LAP SIDING
6" = 1'-0"



2 BALCONY EDGE WITH TRIM
1 1/2" = 1'-0"



4 ENLARGED BALCONY EDGE AT TRIM
6" = 1'-0"



1 TYPE "B" BALCONY WALL AT LAP SIDING
1 1/2" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
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NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
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• 04/19/24 90% CD Set

REVISIONS

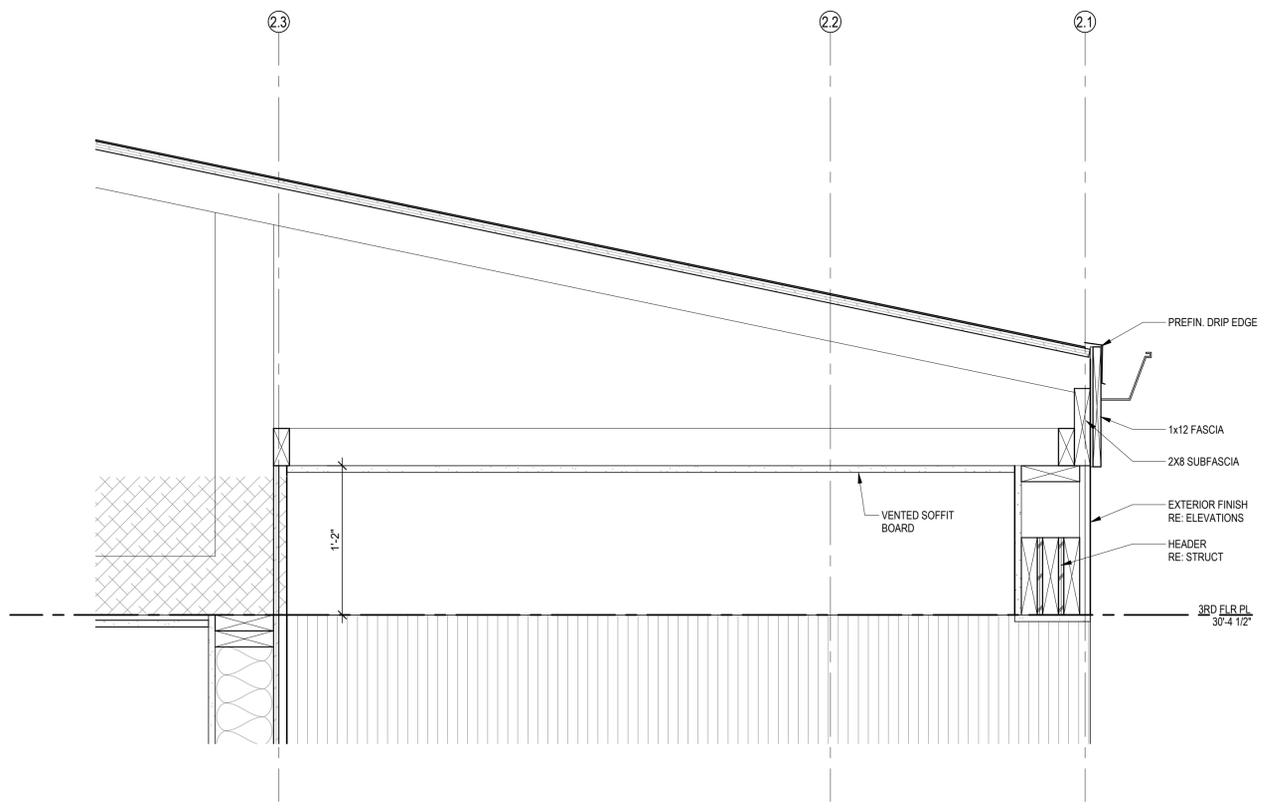
JOB NO. 740623 DATE 04.19.24
DRAWN BY SW EM KN
CD SET/PERMIT

SHEET NAME EXTERIOR WALL DETAILS

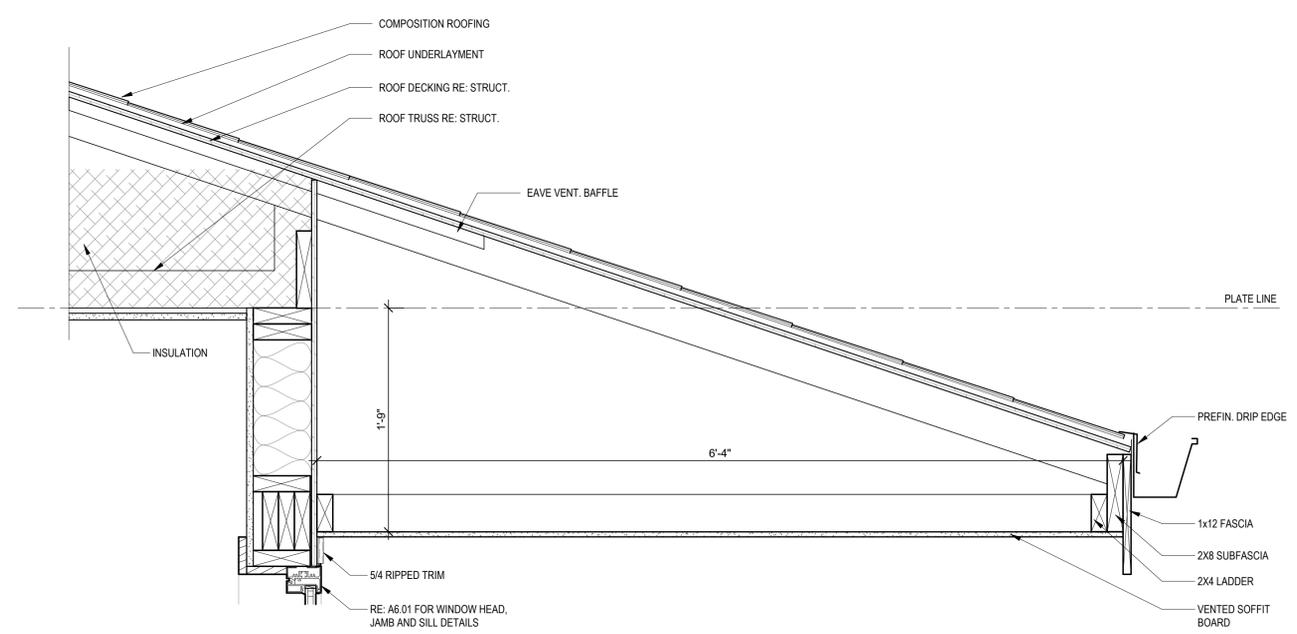
SHEET NO. **A5.21**



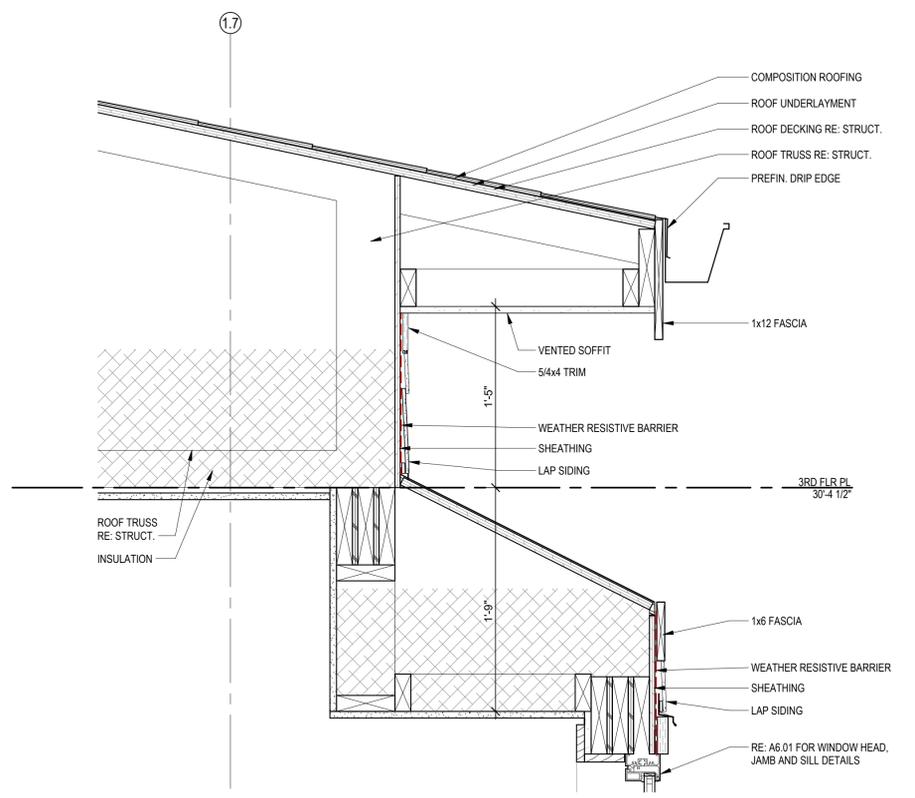
- DETAIL GENERAL NOTES:**
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 - B. "SYSTEM" REFERS TO ALL NECESSARY PRODUCTS AND MATERIALS FOR FULL INSTALLATION.
 - C. PROVIDE SEALANT BETWEEN ALL DISSIMILAR MATERIALS WHERE INDICATED AND WHERE REQUIRED TO PROVIDE A WATERTIGHT ENVELOPE, UNLESS NOTED OTHERWISE FOR WEEPS, VENTS, AND AIR GAPS.



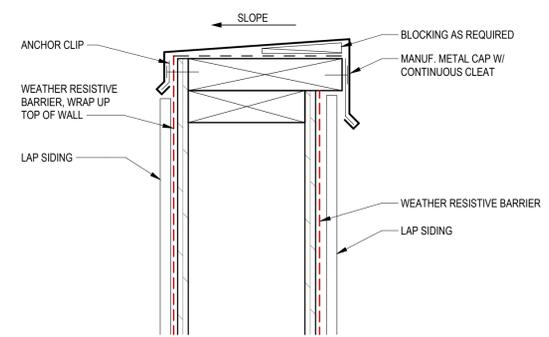
5 ROOF DETAIL
1 1/2" = 1'-0"



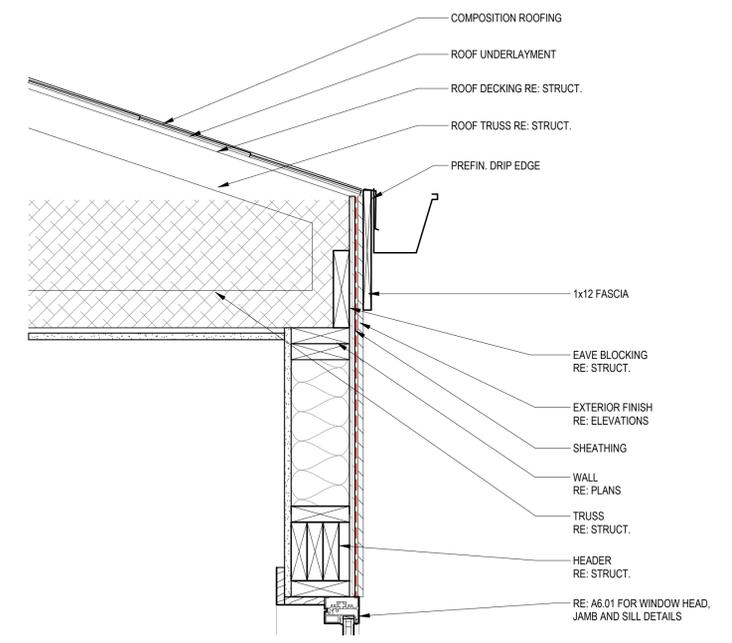
2 ROOF DETAIL
1 1/2" = 1'-0"



4 ROOF DETAIL
1 1/2" = 1'-0"



3 WALL CAP DETAIL
3" = 1'-0"



1 ROOF DETAIL
1 1/2" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
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DRAWING RELEASE LOG
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△ REVISIONS

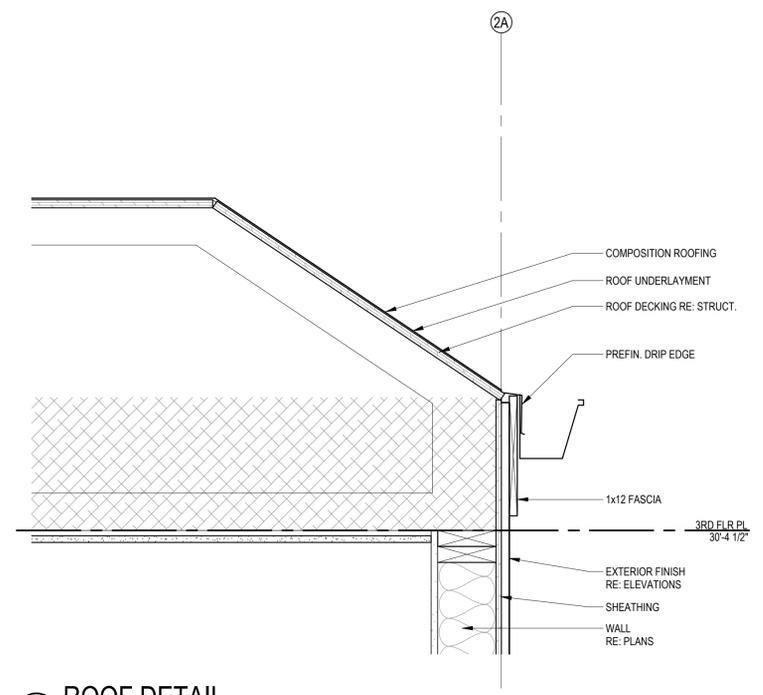
JOB NO. **740623** DATE **04.19.24**
 DRAWN BY **SW EM KN**
 CD SET/PERMIT

SHEET NAME
ROOF DETAILS

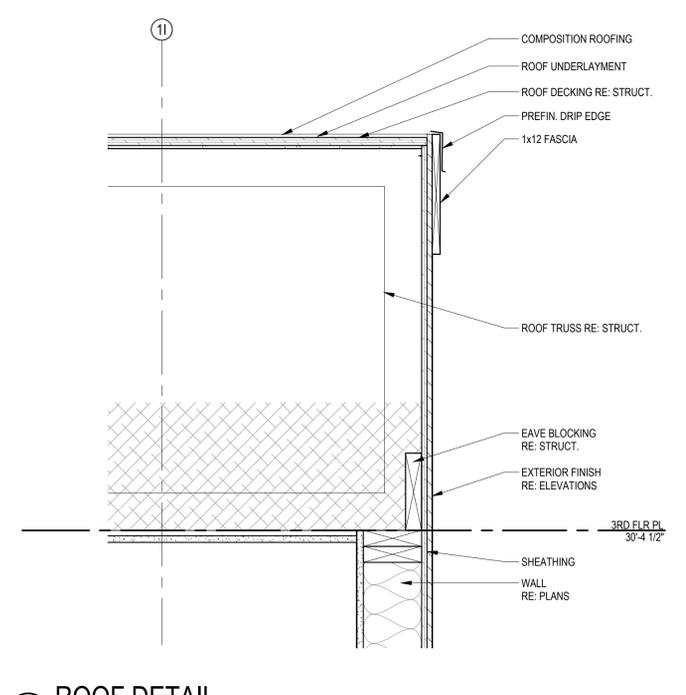
SHEET NO.
A5.30



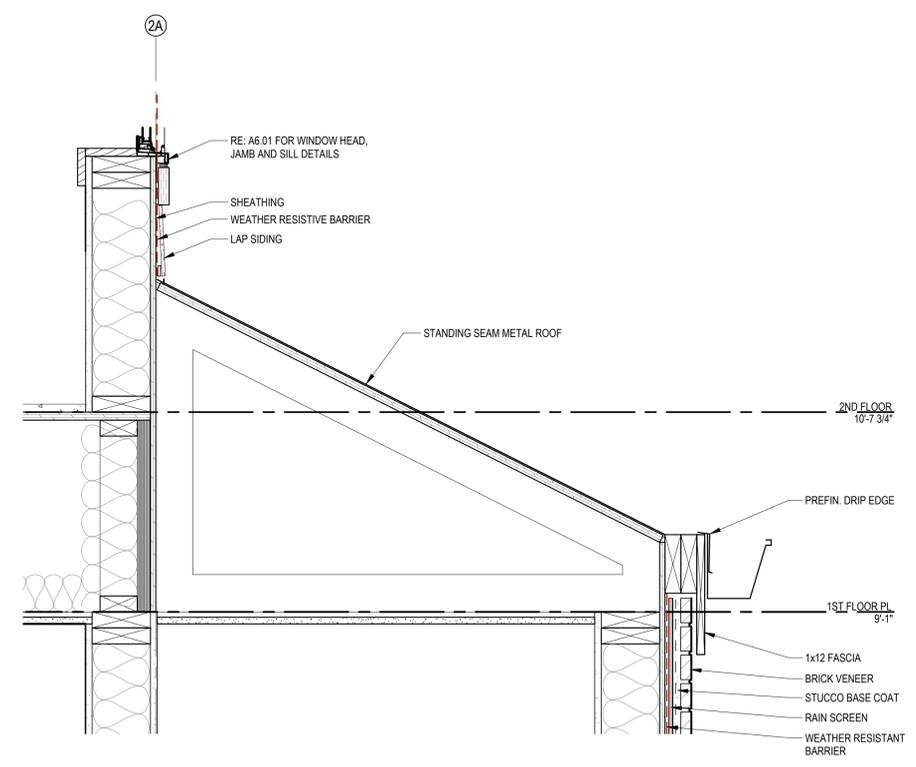
DETAIL GENERAL NOTES:
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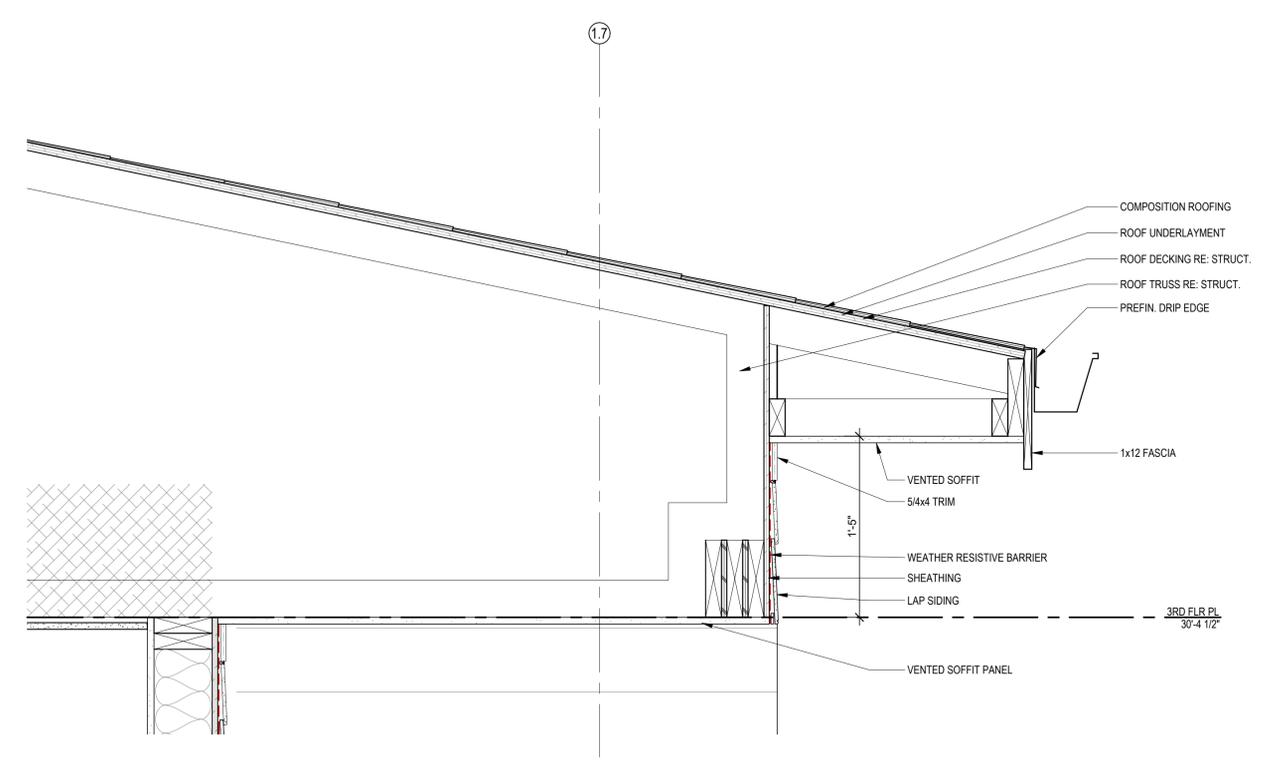
③ ROOF DETAIL
1 1/2" = 1'-0"



② ROOF DETAIL
1 1/2" = 1'-0"



④ ROOF DETAIL
1 1/2" = 1'-0"



① ROOF DETAIL
1 1/2" = 1'-0"

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DRAWING RELEASE LOG
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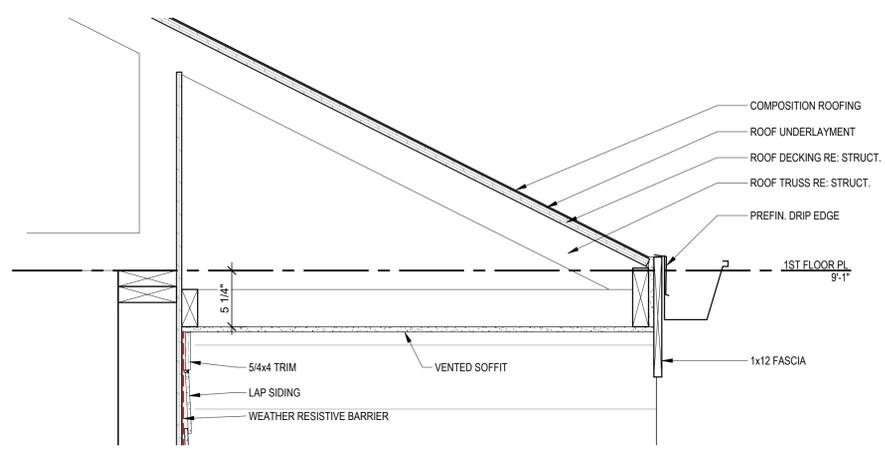
JOB NO. **740623** DATE **04.19.24**
DRAWN BY **SW EM KN**
CD SET/PERMIT

SHEET NAME
ROOF DETAILS

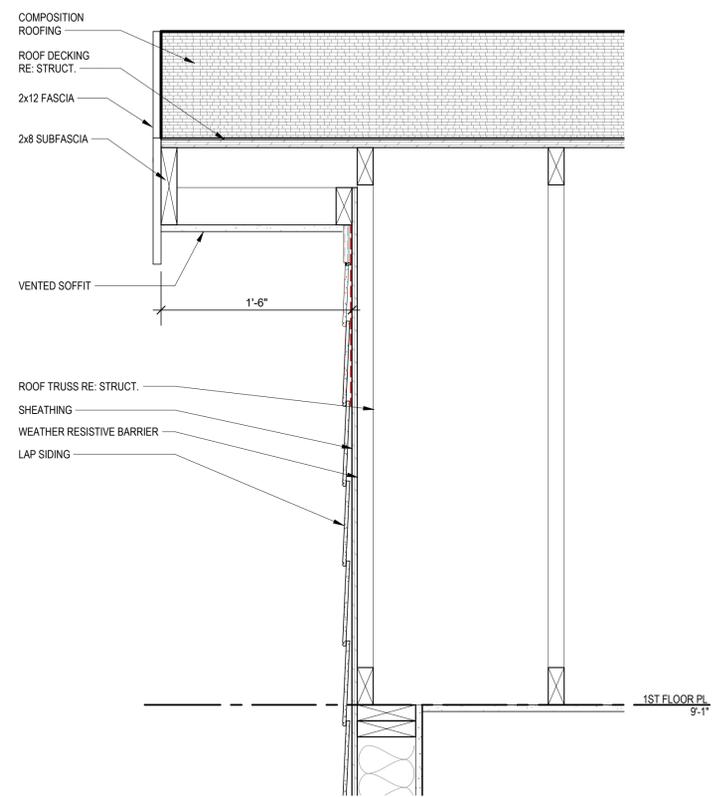
SHEET NO.
A5.31



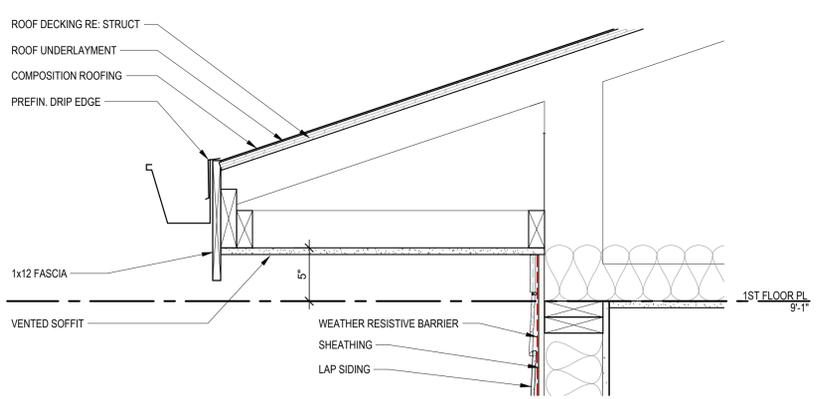
DETAIL GENERAL NOTES:
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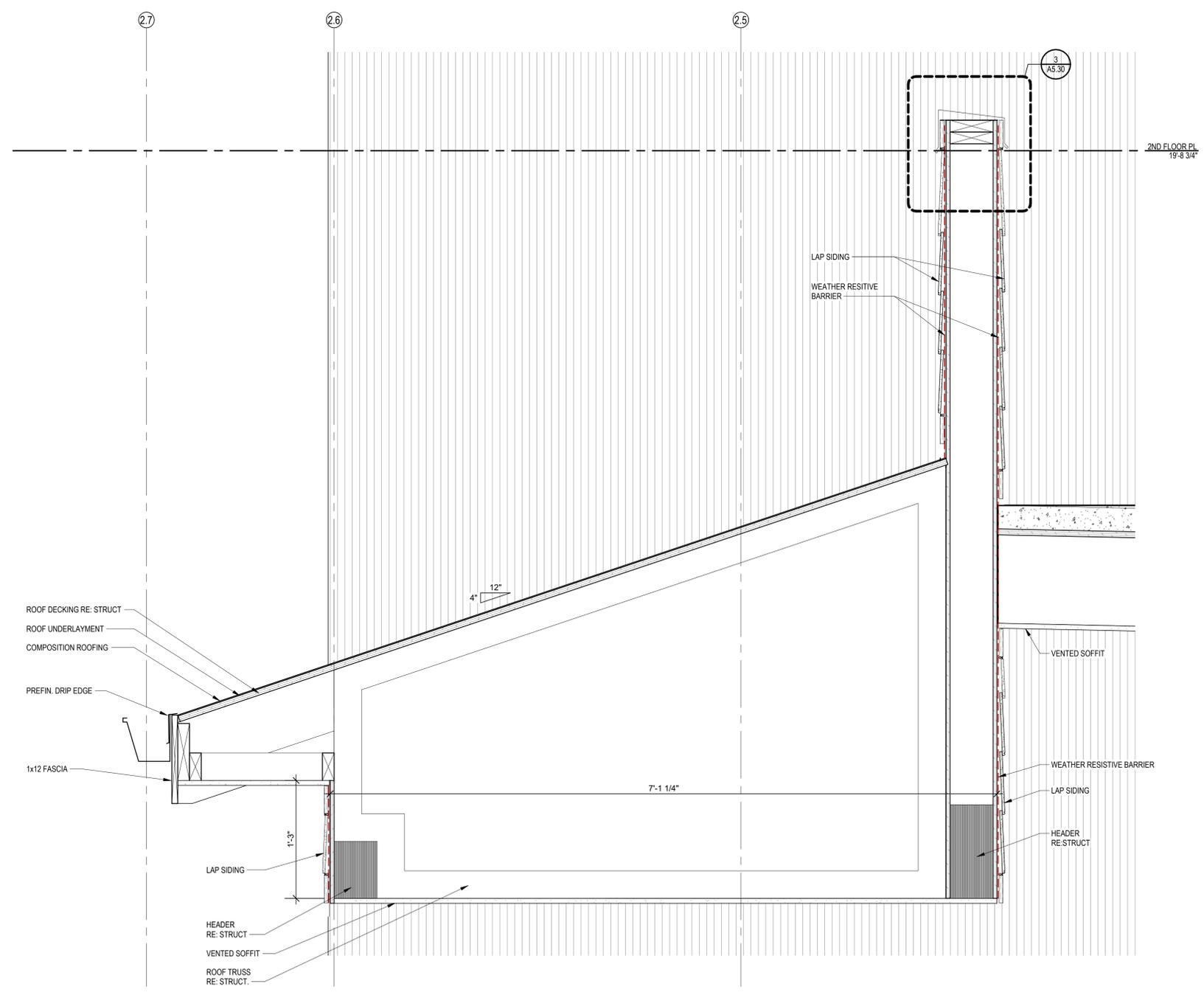
3 MAIL KIOSK ROOF DETAIL
1 1/2" = 1'-0"



4 GARAGE ROOF DETAIL
1 1/2" = 1'-0"



2 GARAGE ROOF DETAIL
1 1/2" = 1'-0"



1 BREEZEWAY ROOF DETAIL
1 1/2" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
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DRAWING RELEASE LOG
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REVISIONS

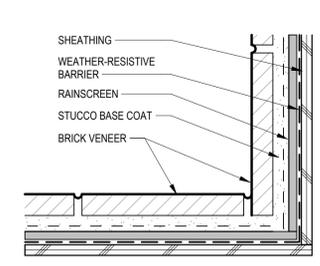
JOB NO. **740623** DATE **04.19.24**
DRAWN BY **SW EM KN**
CD SET/PERMIT

SHEET NAME
ROOF DETAILS

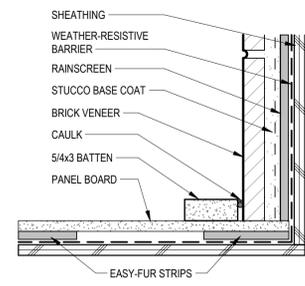
SHEET NO.
A5.32



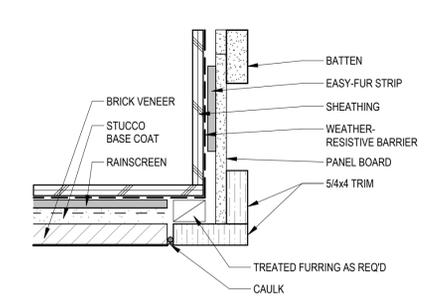
DETAIL GENERAL NOTES:
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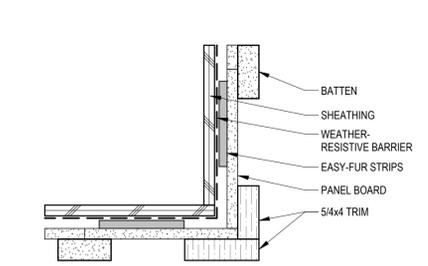
12 INNER CORNER - BRICK/BRICK
3" = 1'-0"



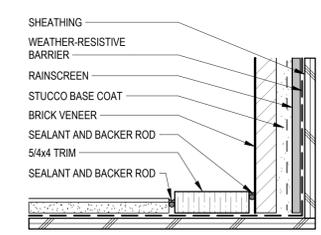
10 INNER CORNER - BRICK/BB
3" = 1'-0"



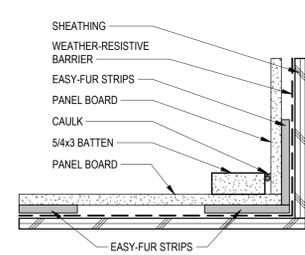
8 OUTER CORNER - BRICK & BB
3" = 1'-0"



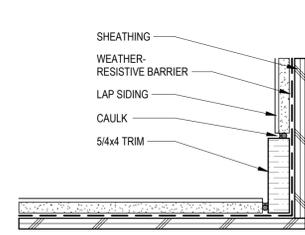
5 OUTER CORNER - BOARD & BATTEN
3" = 1'-0"



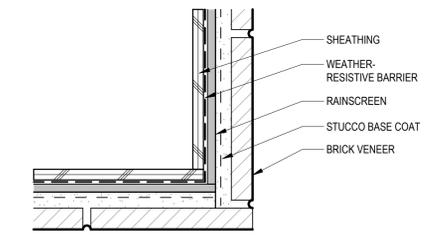
13 INNER CORNER - BRICK/LAP
3" = 1'-0"



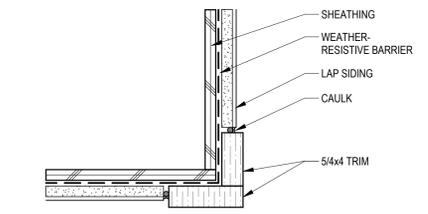
11 INNER CORNER - BB/BB
3" = 1'-0"



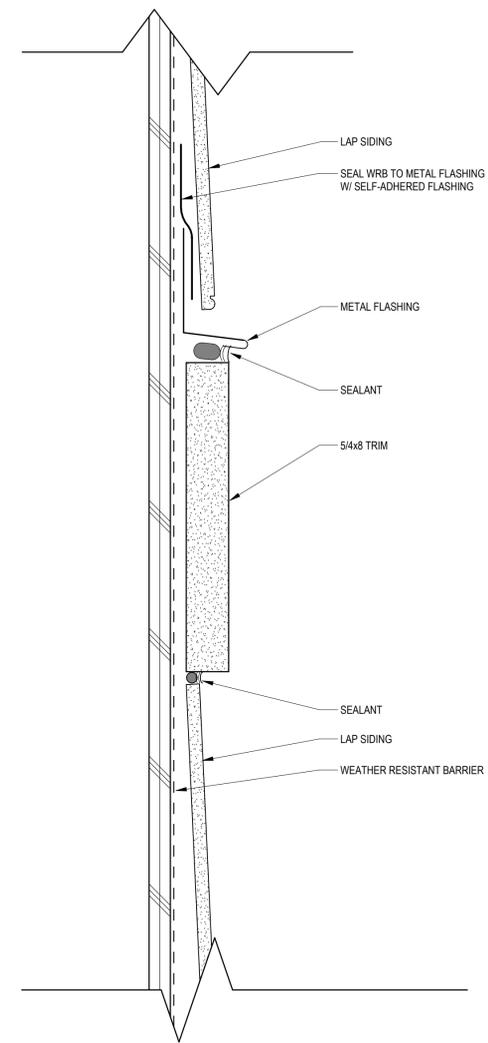
9 INNER CORNER - LAP SIDING
3" = 1'-0"



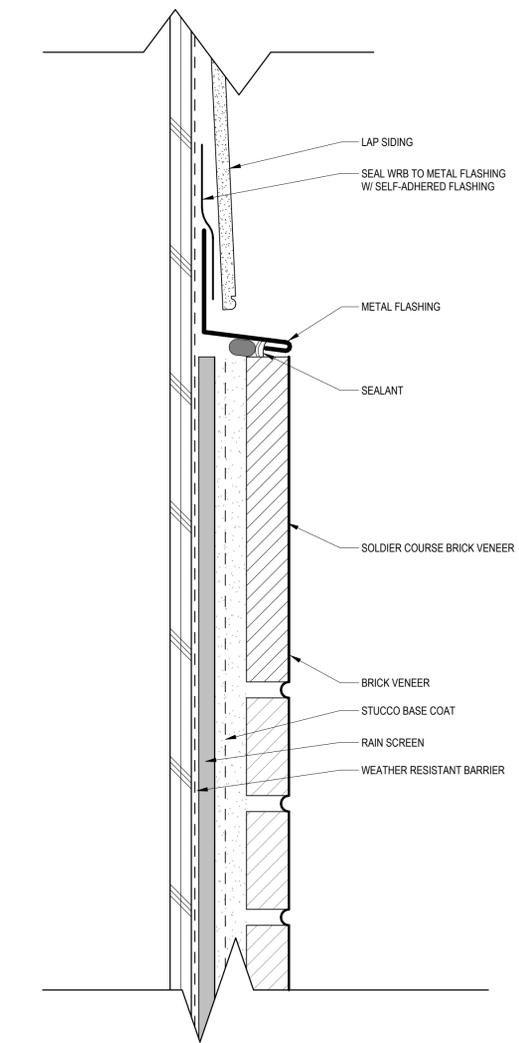
7 OUTER CORNER - BRICK
3" = 1'-0"



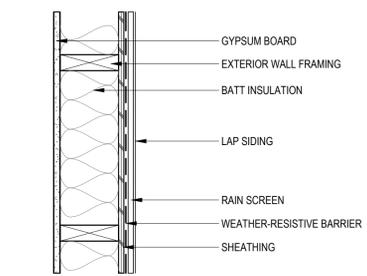
4 OUTER CORNER - LAP SIDING
3" = 1'-0"



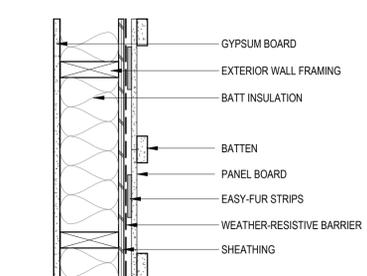
14 MAT. TRAN. LAP SIDING / LAP SIDING
6" = 1'-0"



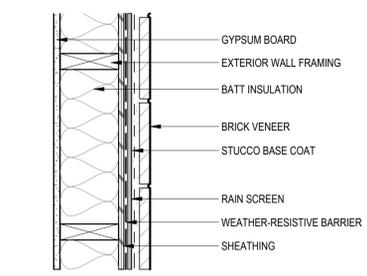
6 MAT. TRAN. LAP SIDING / BRICK VENEER
6" = 1'-0"



3 WALL AT LAP SIDING
1 1/2" = 1'-0"



2 WALL AT BOARD & BATTEN
1 1/2" = 1'-0"



1 WALL AT BRICK VENEER
1 1/2" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
• 02/23/24 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS

JOB NO. 740623
DRAWN BY SW EM KN
CD SET/PERMIT

SHEET NAME MATERIAL TRANSITION DETAILS
SHEET NO.

DATE 04.19.24
A5.40



DOOR SCHEDULE - UNITS

DOOR NO	LOCATION	PAIR	DIMENSIONS			DOOR			FRAME			FIRE RATING	HARDWARE SET	COMMENTS
			WIDTH	HEIGHT	THICKNESS	MATERIAL	TYPE	FINISH	MATERIAL	TYPE	FINISH			
U1	UNIT ENTRY		3'-0"	6'-8"	1 3/4"	SC WOOD	A	PAINT	WOOD	1	PAINT	20 MIN.	1 & 2	
U2	BATHROOM		2'-10"	6'-8"	1 3/8"	HC WOOD	A	PAINT	WOOD	1	PAINT		3	
U3	BEDROOM		2'-10"	6'-8"	1 3/8"	HC WOOD	A	PAINT	WOOD	1	PAINT		3	
U4	CLOSET		2'-10"	6'-8"	1 3/8"	HC WOOD	A	PAINT	WOOD	1	PAINT		4	
U6	HVAC		2'-6"	6'-8"	1 3/8"	HC WOOD	A	PAINT	WOOD	1	PAINT		7	
U7	CLOSET		2'-0"	6'-8"	1 3/8"	HC WOOD	A	PAINT	WOOD	1	PAINT		4	
U13	LAUNDRY	PR	2'-6"	6'-8"	1 3/8"	HC WOOD	A	PAINT	WOOD	1	PAINT		8	
U14	CLOSET	PR	2'-0"	6'-8"	1 3/8"	HC WOOD	A	PAINT	WOOD	1	PAINT		8	
U15	PATIO/BALCONY		3'-0"	7'-0"	1 3/4"	METAL CLAD	B	PREFINISHED	HOLLOW METAL	1	PAINT		6	

DOOR SCHEDULE - COMMON AREAS

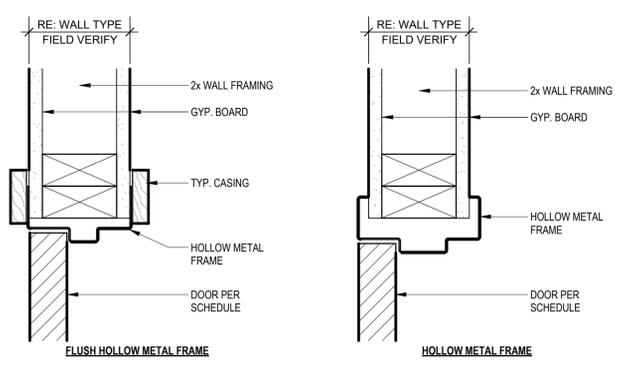
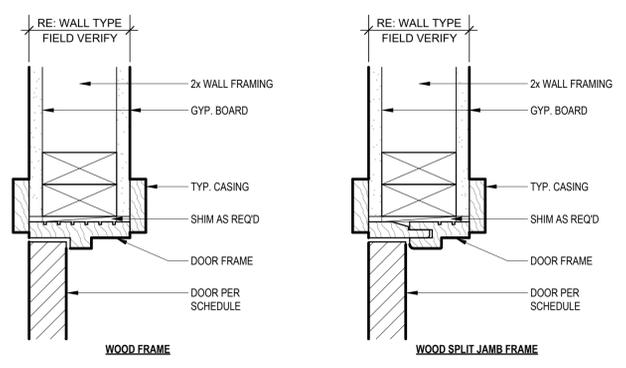
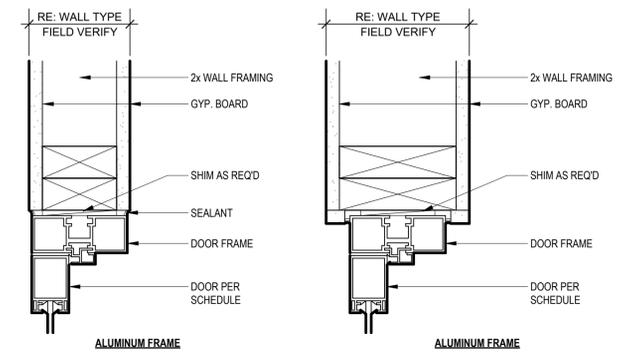
DOOR NO	LOCATION	PAIR	DIMENSIONS			DOOR			FRAME			FIRE RATING	HARDWARE SET	COMMENTS
			WIDTH	HEIGHT	THICKNESS	MATERIAL	TYPE	FINISH	MATERIAL	TYPE	FINISH			
A1	WATER ROOM & POOL EQUIP.		3'-0"	6'-8"	1 3/4"	HOLLOW METAL	C	PAINT	HOLLOW METAL	1	PAINT		CA1	
A2	ADA GARAGE		3'-0"	6'-8"	1 3/4"	HOLLOW METAL	C	PAINT	HOLLOW METAL	1	PAINT		CA2	
A3	GARAGE DOOR		9'-0"	8'-0"	1 1/2"	HOLLOW METAL	D	PREFINISHED	HOLLOW METAL	1	PAINT		-	

DOOR SCHEDULE - CLUBHOUSE

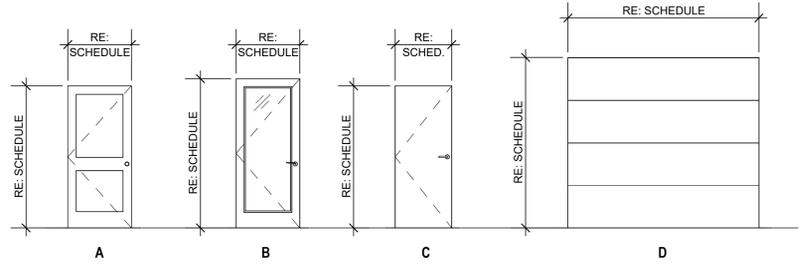
DOOR NO	LOCATION	PAIR	DIMENSIONS			DOOR			FRAME			FIRE RATING	HARDWARE SET	COMMENTS
			WIDTH	HEIGHT	THICKNESS	MATERIAL	TYPE	FINISH	MATERIAL	TYPE	FINISH			
C01	ENTRY - LEASING		3'-0"	7'-0"	1 3/4"	ALUMINUM	B	PREFINISHED	ALUMINUM	S2	PREFINISHED		CH1	
C02	LEASING OFFICE		3'-0"	6'-8"	1 3/4"	ALUMINUM	B	PREFINISHED	ALUMINUM	S3	PREFINISHED		CH2	
C03	LEASING OFFICE		3'-0"	6'-8"	1 3/4"	HC WOOD	A	PAINT	WOOD	1	PAINT		CH2	
C04	PACKAGE ROOM		3'-0"	6'-8"	1 3/4"	ALUMINUM	B	PREFINISHED	ALUMINUM	S3	PREFINISHED		CH3	
C05	MECH / IT		3'-0"	6'-8"	1 3/4"	HC WOOD	A	PAINT	WOOD	1	PAINT		CH4	
C06	FITNESS		3'-0"	6'-8"	1 3/4"	ALUMINUM	B	PREFINISHED	ALUMINUM	S4	PREFINISHED		CH3	
C07	MECH.		2'-10"	6'-8"	1 3/4"	HC WOOD	A	PAINT	WOOD	1	PAINT		CH4	
C08	ENTRY		3'-0"	6'-8"	1 3/4"	ALUMINUM	B	PREFINISHED	ALUMINUM	S3	PREFINISHED		CH3	
C09	RESTROOM C.O.		2'-10"	6'-8"	1 3/4"	WOOD	1	PAINT	WOOD	1	PAINT		-	
C10	RESTROOM STALL		2'-8"	6'-8"	1 3/4"	HC WOOD	A	PAINT	WOOD	1	PAINT		CH5	
C11	RESTROOM STALL		2'-10"	6'-8"	1 3/4"	HC WOOD	A	PAINT	WOOD	1	PAINT		CH5	
C12	STORAGE		3'-0"	6'-8"	1 3/4"	HOLLOW METAL	C	PAINT	HOLLOW METAL	1	PAINT		CH6	
C13	RESTROOM		3'-0"	6'-8"	1 3/4"	HOLLOW METAL	C	PAINT	HOLLOW METAL	1	PAINT		CH7	
C14	ENTRY - POOL DECK		3'-0"	7'-0"	1 3/4"	ALUMINUM	B	PREFINISHED	ALUMINUM	S2	PREFINISHED		CH1	
C15	JANITOR CLOSET		3'-0"	6'-8"	1 3/4"	HC WOOD	A	PAINT	WOOD	1	PAINT		CH4	

- DOOR GENERAL NOTES:**
- CONTRACTOR TO VERIFY ALL DOOR SIZES AND COUNTS PRIOR TO ORDERING.
 - CONTRACTOR TO CONFIRM PROPER SWING WITH UNIT AND BUILDING LAYOUT PLANS.
 - REFER TO TYPICAL INTERIOR DOOR FRAME DETAILS ON THIS SHEET FOR COMMON CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES FROM ACTUAL CONDITIONS.
 - PROVIDE EACH UNIT ENTRY DOOR WITH A PEEPHOLE WITH A 180 DEGREE VIEWER.
 - WEATHERSTRIP ALL EXTERIOR DOORS.
 - PROVIDE SAFETY GLAZING AT HAZARDOUS LOCATIONS PER 2018 IBC SECTION 2406 AND WHERE INDICATED IN THE CONSTRUCTION DOCUMENTS.
 - ALL EGRESS DOORS SHALL BE OPERABLE FROM THE INSIDE REQUIRING NO KEY, SPECIAL KNOWLEDGE, OR EFFORT.
 - PROVIDE SOLID BLOCKING AT UNIT ENTRY DOOR MINIMUM 12" ABOVE AND BELOW STRIKE PLATE.
 - THRESHOLDS SHALL COMPLY WITH ACCESSIBILITY REGULATIONS.
 - DOOR SURFACES WITHIN 10" OF THE FLOOR TO BE A SMOOTH SURFACE PER A117.1 SECTION 404.2.9.
 - WINDOW AND DOOR HEADS TO ALIGN. ACCOUNT FOR THRESHOLD, DOOR FRAME, AND FLOOR TOPPING.

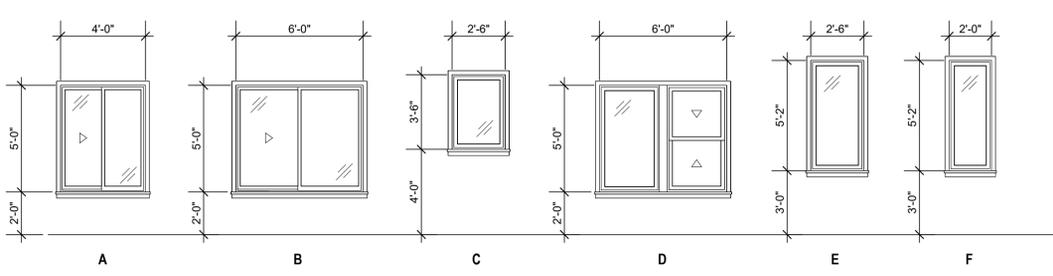
- WINDOW GENERAL NOTES:**
- CONTRACTOR TO VERIFY ALL WINDOW SIZES PRIOR TO ORDERING.
 - WINDOWS ARE DIMENSIONED NOMINALLY. ADJUST FRAMING DIMENSIONS AS REQUIRED FOR MANUFACTURER'S REQUIRED OPENINGS.
 - PROVIDE SAFETY GLAZING AT HAZARDOUS LOCATIONS PER IBC SECTION 2406 AND WHERE INDICATED IN THE CONSTRUCTION DOCUMENTS.
 - PER 2018 IBC 1015.8: OPERABLE WINDOWS LOCATED MORE THAN 72" ABOVE THE FINISHED GRADE OR OTHER SURFACE BELOW SHALL NOT PERMIT AN OPENING THAT ALLOWS PASSAGE OF A 4" DIAMETER SPHERE WHERE SUCH OPENINGS ARE LOCATED WITHIN 36" OF THE FINISHED FLOOR.
 - AT ALL STOREFRONT LOCATIONS PROVIDE BLOCKING AND SHIMS AS REQUIRED. PROVIDE SEALANT AND BACKER ROD, BOTH SIDES, ALL AROUND. SEALANT COLOR PER ARCHITECT. PROVIDE MANUFACTURER'S COLOR CHART FOR SELECTION.
 - WINDOW AND DOOR HEADS TO ALIGN. ACCOUNT FOR THRESHOLD, DOOR FRAME, AND FLOOR TOPPING.



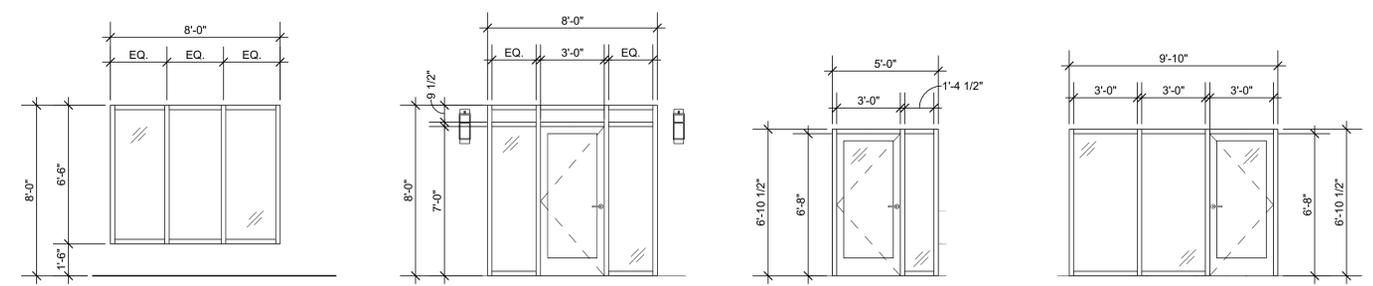
DOOR INTERIOR FRAME DETAILS



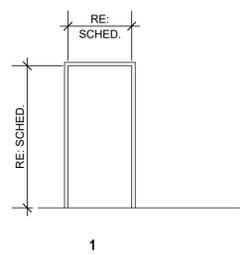
DOOR TYPES



WINDOW TYPES



S1 STOREFRONT 1/4" = 1'-0"
S2 STOREFRONT 1/4" = 1'-0"
S3 STOREFRONT 1/4" = 1'-0"
S4 STOREFRONT 1/4" = 1'-0"



FRAME TYPES

A NEW APARTMENT COMMUNITY AT:
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LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
● 02/23/24 100% CD Set
● 03/22/24 50% CD Set
● 04/19/24 90% CD Set

REVISIONS

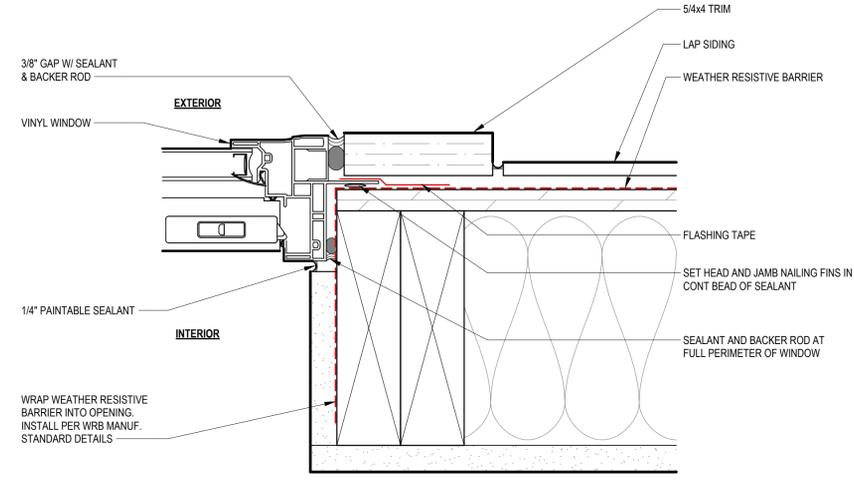
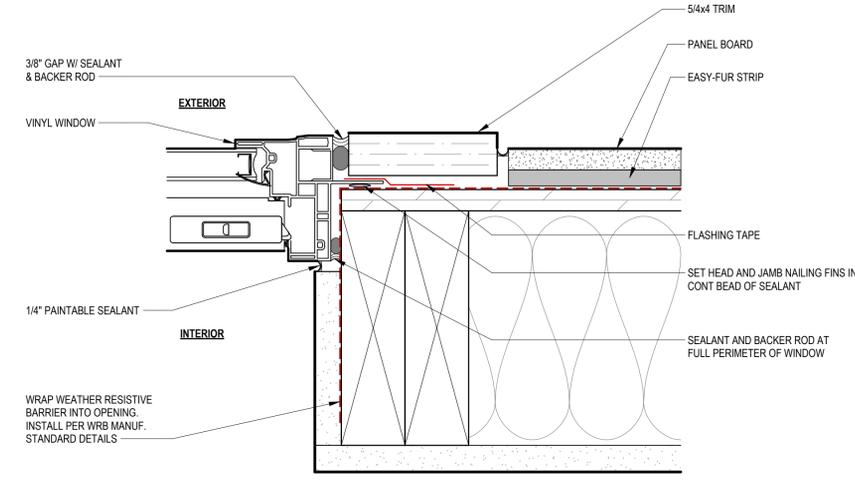
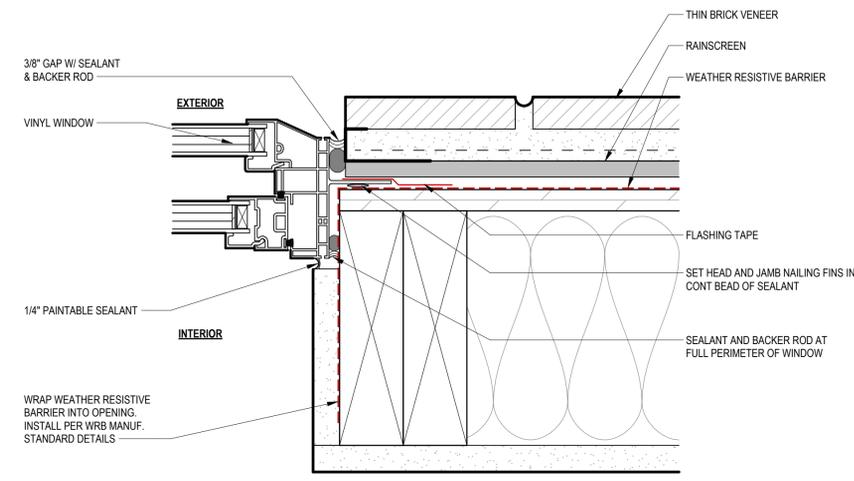
JOB NO. DATE
740623 04.19.24
DRAWN BY: SW EM KN
CD SET/PERMIT

SHEET NAME: DOOR & WINDOW SCHEDULE
SHEET NO.

A6.00

ARCH D 24' x 36'

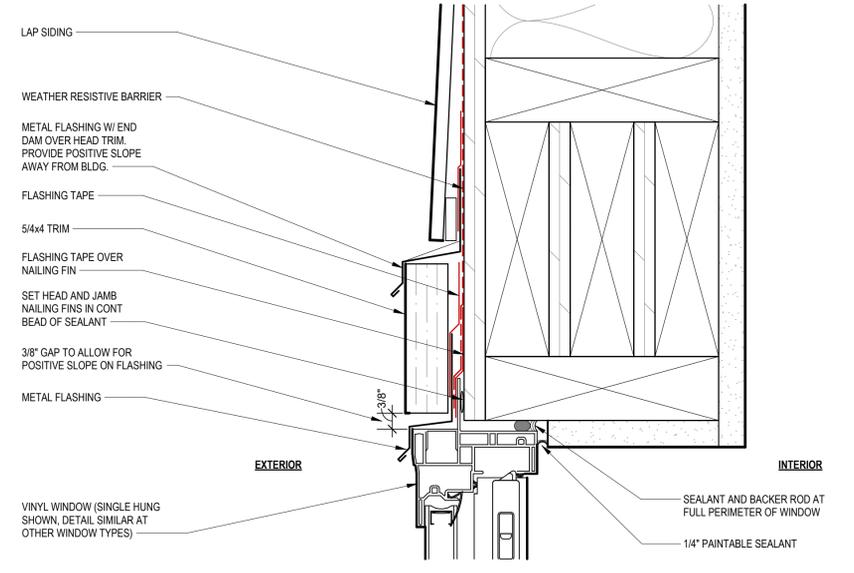
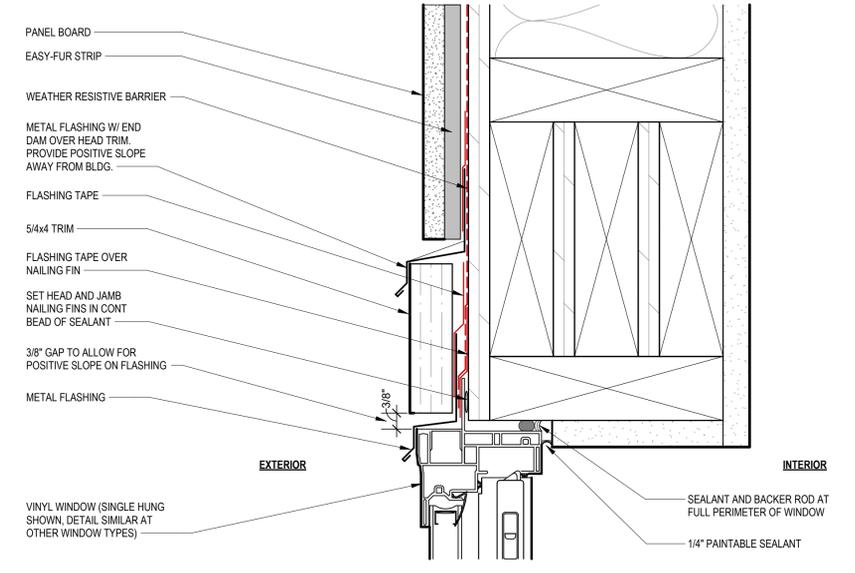
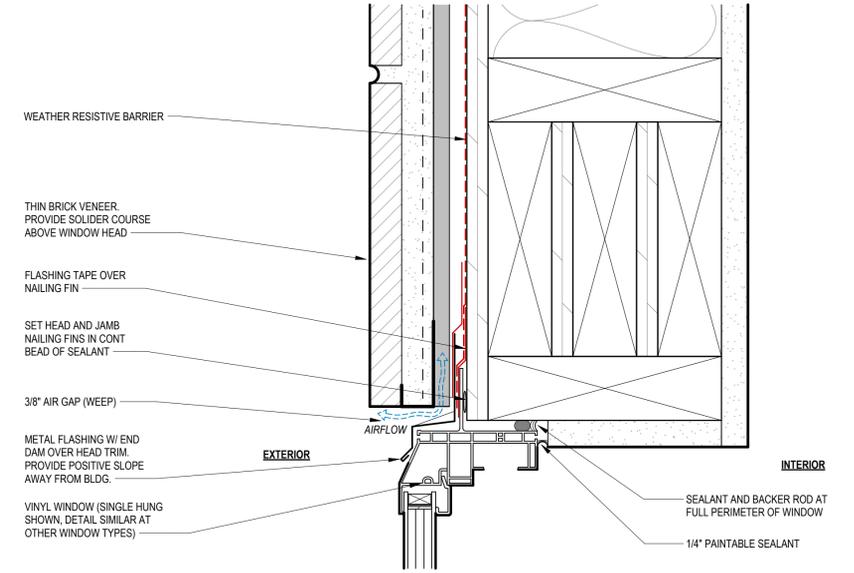
9/3/2024 12:26:19 PM



9 WDW JAMB @ THIN BRICK
6" = 1'-0"

6 WDW JAMB @ BOARD & BATTEN
6" = 1'-0"

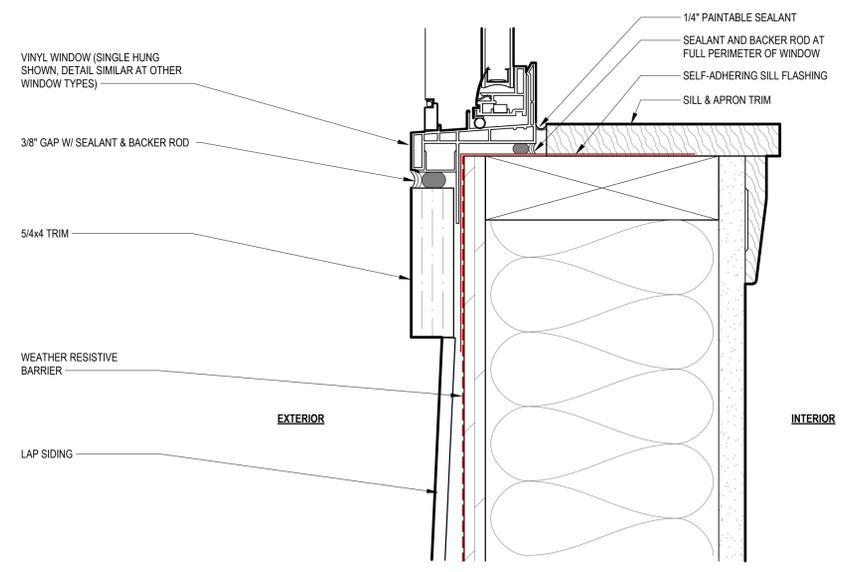
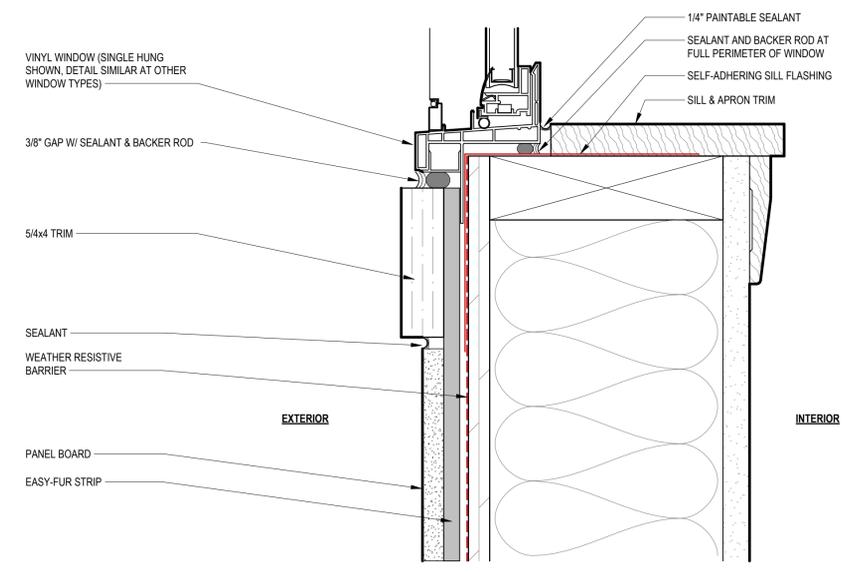
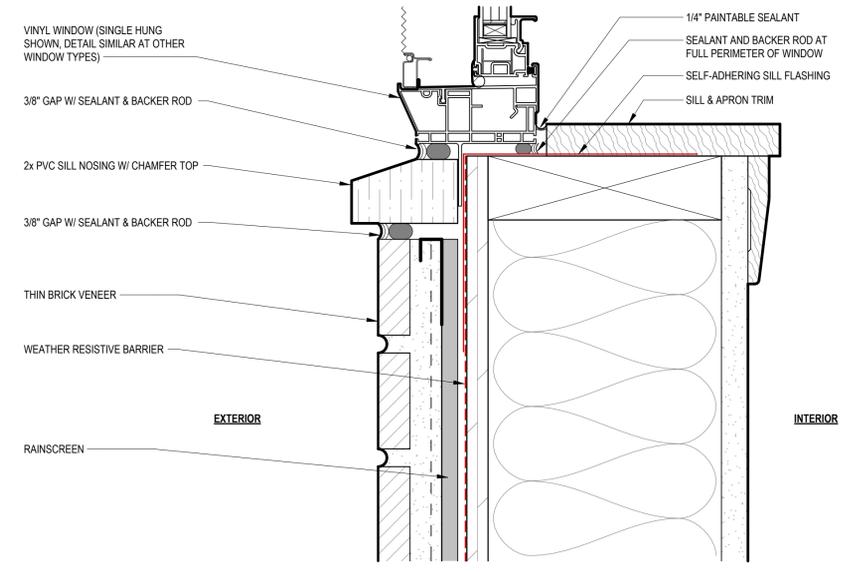
3 WDW JAMB @ LAP SIDING
6" = 1'-0"



8 WDW HEAD @ THIN BRICK
6" = 1'-0"

5 WDW HEAD @ BOARD & BATTEN
6" = 1'-0"

2 WDW HEAD @ LAP SIDING
6" = 1'-0"



7 WDW SILL @ THIN BRICK
6" = 1'-0"

4 WDW SILL @ BOARD & BATTEN
6" = 1'-0"

1 WDW SILL @ LAP SIDING
6" = 1'-0"

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• 04/19/24 90% CD Set

REVISIONS

JOB NO. 740623 DATE 04.19.24
DRAWN BY SW EM KN
CD SET/PERMIT

SHEET NAME WINDOW DETAILS

SHEET NO. A6.01



APARTMENT UNIT FINISH SCHEDULE

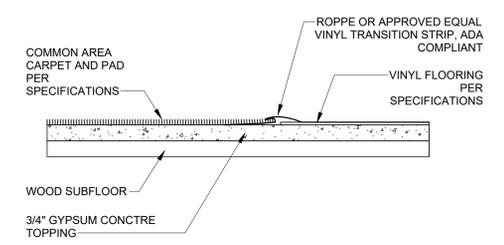
ROOM NAME	FLOOR	BASE	WALLS		CEILING		CEILING HEIGHT	TRIM	REMARKS
			MAT.	FINISH	MAT.	FINISH			
ENTRY	VINYL PLANK	WOOD	GYP. BD.	PAINT	GYP. BD.	PAINT	9'-0"	NONE	SEE PLANS FOR FURRED CEILING LOCATIONS, TYPICAL
LIVING	VINYL PLANK	WOOD	GYP. BD.	PAINT	GYP. BD.	PAINT	9'-0"	NONE	
DINING	VINYL PLANK	WOOD	GYP. BD.	PAINT	GYP. BD.	PAINT	9'-0"	NONE	
KITCHEN	VINYL PLANK	WOOD	GYP. BD.	PAINT	GYP. BD.	PAINT	9'-0"	NONE	
BEDROOM	CARPET	WOOD	GYP. BD.	PAINT	GYP. BD.	PAINT	9'-0"	NONE	
BEDROOM CLOSET	CARPET	WOOD	GYP. BD.	PAINT	GYP. BD.	PAINT	9'-0"	NONE	
DEN	VINYL PLANK	WOOD	GYP. BD.	PAINT	GYP. BD.	PAINT	9'-0"	NONE	
HALL	VINYL PLANK	WOOD	GYP. BD.	PAINT	GYP. BD.	PAINT	9'-0"	NONE	
LAUNDRY	VINYL PLANK	WOOD	GYP. BD.	PAINT	GYP. BD.	PAINT	9'-0"	NONE	
BATH	VINYL PLANK	WOOD	GYP. BD.	PAINT	GYP. BD.	PAINT	9'-0"	NONE	
COAT CLOSET	VINYL PLANK	WOOD	GYP. BD.	PAINT	GYP. BD.	PAINT	9'-0"	NONE	
PANTRY	VINYL PLANK	WOOD	GYP. BD.	PAINT	GYP. BD.	PAINT	9'-0"	NONE	
LINEN	VINYL PLANK	WOOD	GYP. BD.	PAINT	GYP. BD.	PAINT	9'-0"	NONE	
MECHANICAL	UNFINISHED	WOOD	GYP. BD.	TAPE/MUD	GYP. BD.	TAPE/MUD	9'-0"	NONE	

BUILDING COMMON FINISH SCHEDULE

ROOM NAME	FLOOR	BASE	WALLS		CEILING		CEILING HEIGHT	TRIM	REMARKS
			MAT.	FINISH	MAT.	FINISH			
STAIR	METAL	METAL	N/A	N/A	GYP. BD.	PAINT	N/A	NONE	
CORRIDOR	SMOOTH CONC.	NONE	LAP SIDING	N/A	GYP. BD.	PAINT	8'-6"	NONE	
BREEZEAWAY	SMOOTH CONC.	NONE	BD. & BATTEN	N/A	N/A	N/A	N/A	NONE	
BREEZEAWAY	SMOOTH CONC.	NONE	LAP SIDING	N/A	N/A	N/A	N/A	NONE	

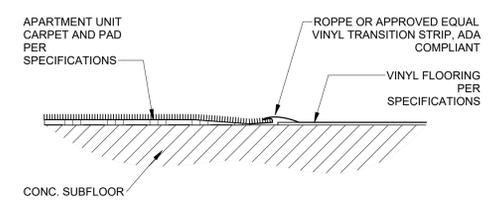
FINISH SCHEDULE NOTES:

- INTERIOR FINISHES SHALL CONFORM TO I.B.C. CHAPTER 8
- FINISH MATERIALS SHALL CONFORM TO I.B.C. SECTION 1210.
- REFER TO SPECIFICATION FOR PAINT TEXTURES AND FINISHES.
- ALL GYP. BD. AT BATHROOMS AND LAUNDRIES SHALL BE W.R.
- VERIFY ALL FINISHES WITH DRAWINGS AND SCHEDULES PROVIDED BY THE OWNER.
- SEE FLOOR PLANS FOR FURRED CEILING LOCATIONS



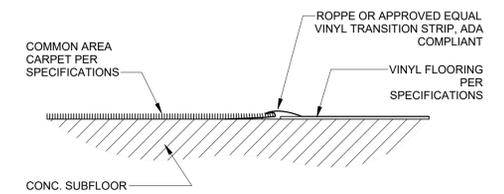
TYPICAL AT CARPET TO VINYL TRANSITION @ 2nd - 3rd

5 FLR. TRANSITION D
3" = 1'-0"



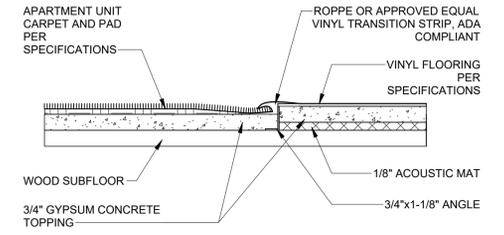
TYPICAL AT CARPET TO VINYL TRANSITIONS @ 1st

3 FLR. TRANSITION C
3" = 1'-0"



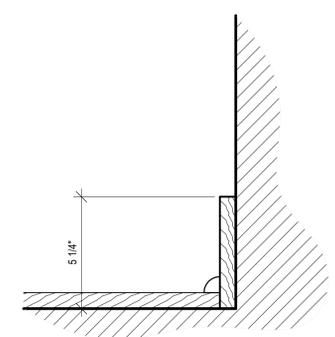
TYPICAL AT CARPET TO VINYL TRANSITION @ 1st

4 FLR. TRANSITION B
3" = 1'-0"



TYPICAL AT CARPET TO VINYL TRANSITION @ 2nd - 3rd

2 FLR. TRANSITION
3" = 1'-0"



TYPICAL AT COMMON AREAS

1 BASE
3" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
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LEE'S SUMMIT, MO 64086

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• 04/19/24 90% CD Set

REVISIONS

JOB NO. 740623 DATE 04.19.24
DRAWN BY SW EM KN
CD SET/PERMIT

SHEET NAME FINISH SCHEDULE & DETAILS
SHEET NO.

A6.10



1 CLUBHOUSE PLAN
1/4" = 1'-0"

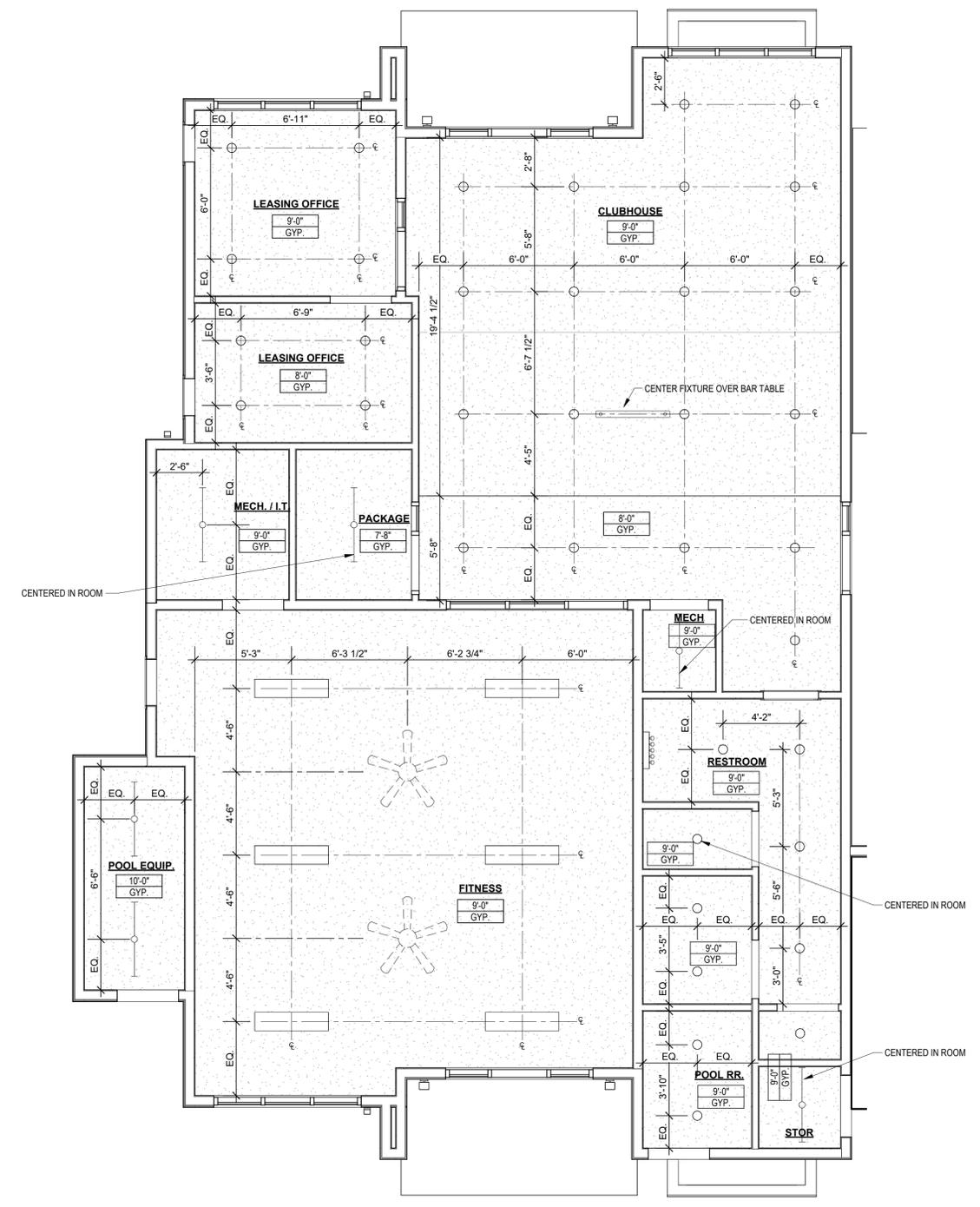
A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
• 03/23/24 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS
1 9/27/24 CITY COMMENT RESPONSES

JOB NO. 740623 DATE 04.19.24
DRAWN BY SW EM KN
CD SET/PERMIT

SHEET NAME ENLARGED CLUBHOUSE PLAN
SHEET NO. A7.00



A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

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 • 04/19/24 90% CD Set

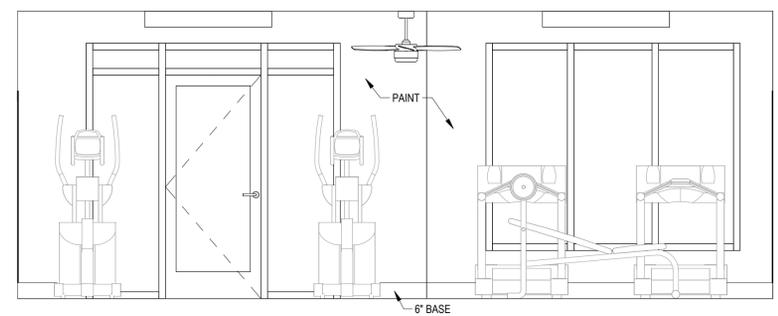
△ REVISIONS

JOB NO. 740623 DATE 04.19.24
 DRAWN BY SW EM KN
 CD SET/PERMIT

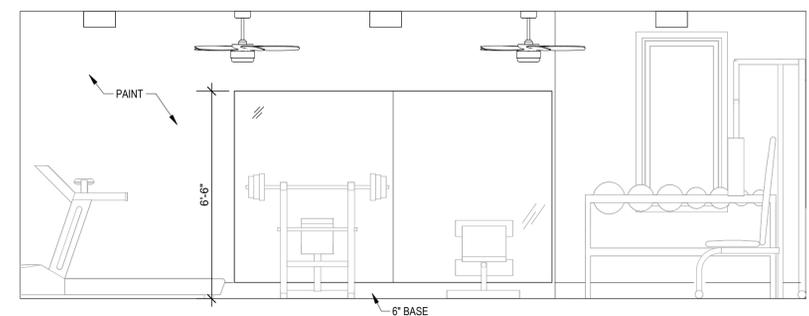
SHEET NAME ENLARGED CLUBHOUSE RCP
 SHEET NO.

A7.01

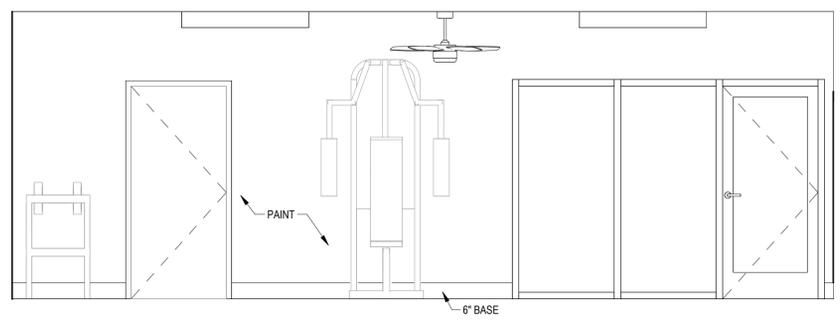
1 CLUBHOUSE RCP
 1/4" = 1'-0"



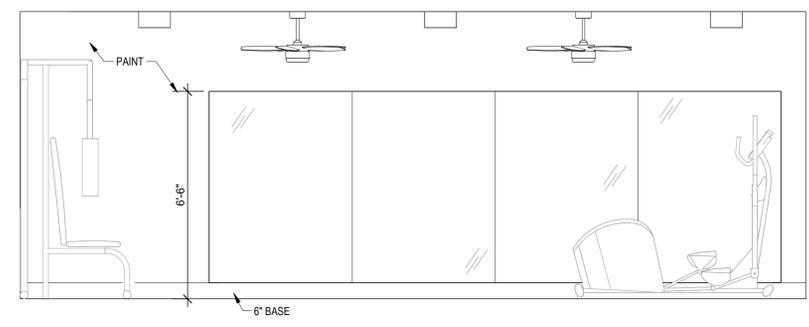
11 FITNESS
3/8" = 1'-0"



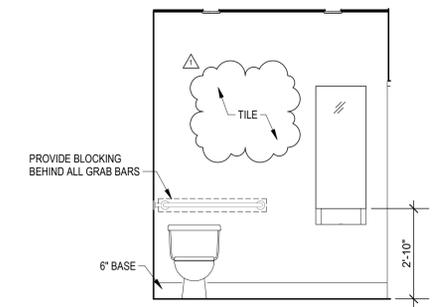
10 FITNESS
3/8" = 1'-0"



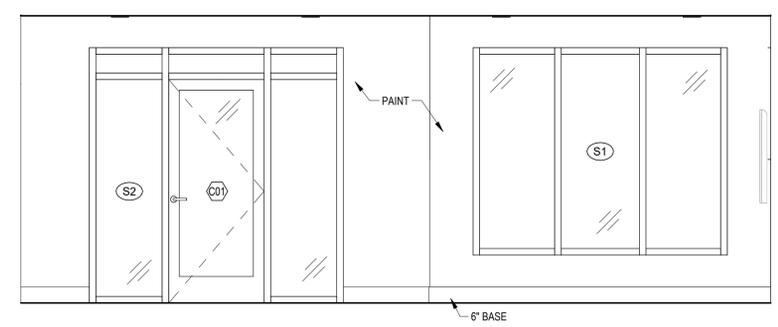
8 FITNESS
3/8" = 1'-0"



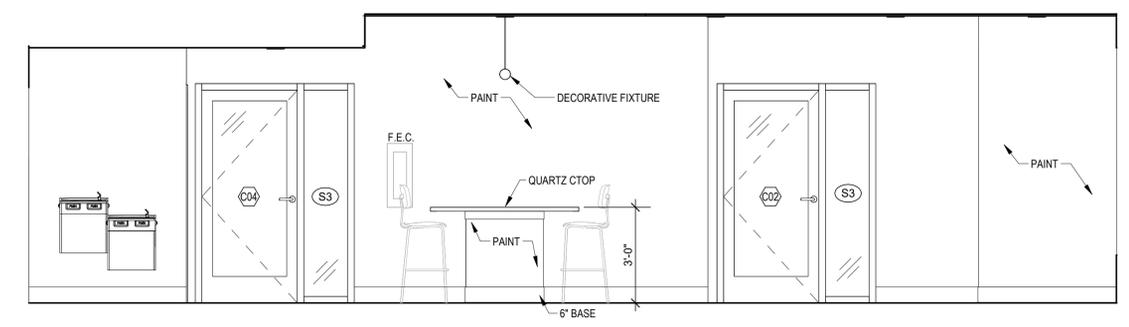
7 FITNESS
3/8" = 1'-0"



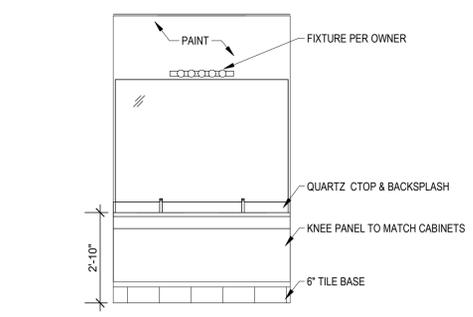
9 POOL RESTROOM
3/8" = 1'-0"



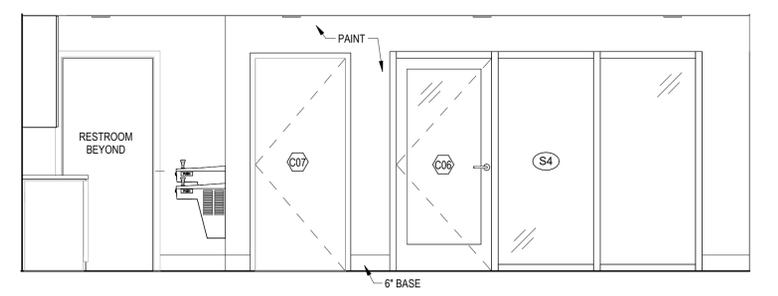
5 ELEVATION - CLUB ROOM
3/8" = 1'-0"



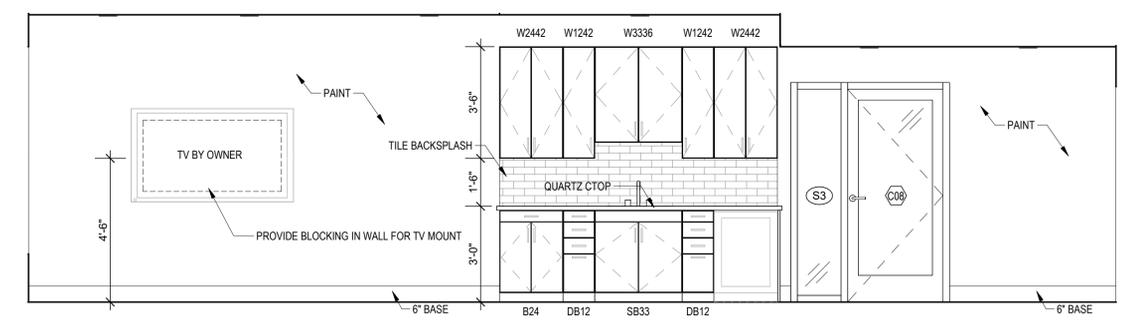
4 ELEVATION - CLUB ROOM
3/8" = 1'-0"



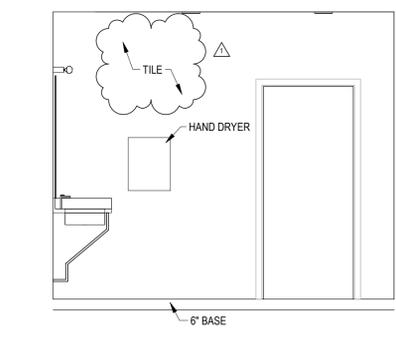
6 CLUBHOUSE RESTROOM
3/8" = 1'-0"



2 ELEVATION - CLUB ROOM
3/8" = 1'-0"



1 ELEVATION - CLUB ROOM
3/8" = 1'-0"



3 CLUBHOUSE RESTROOM
3/8" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

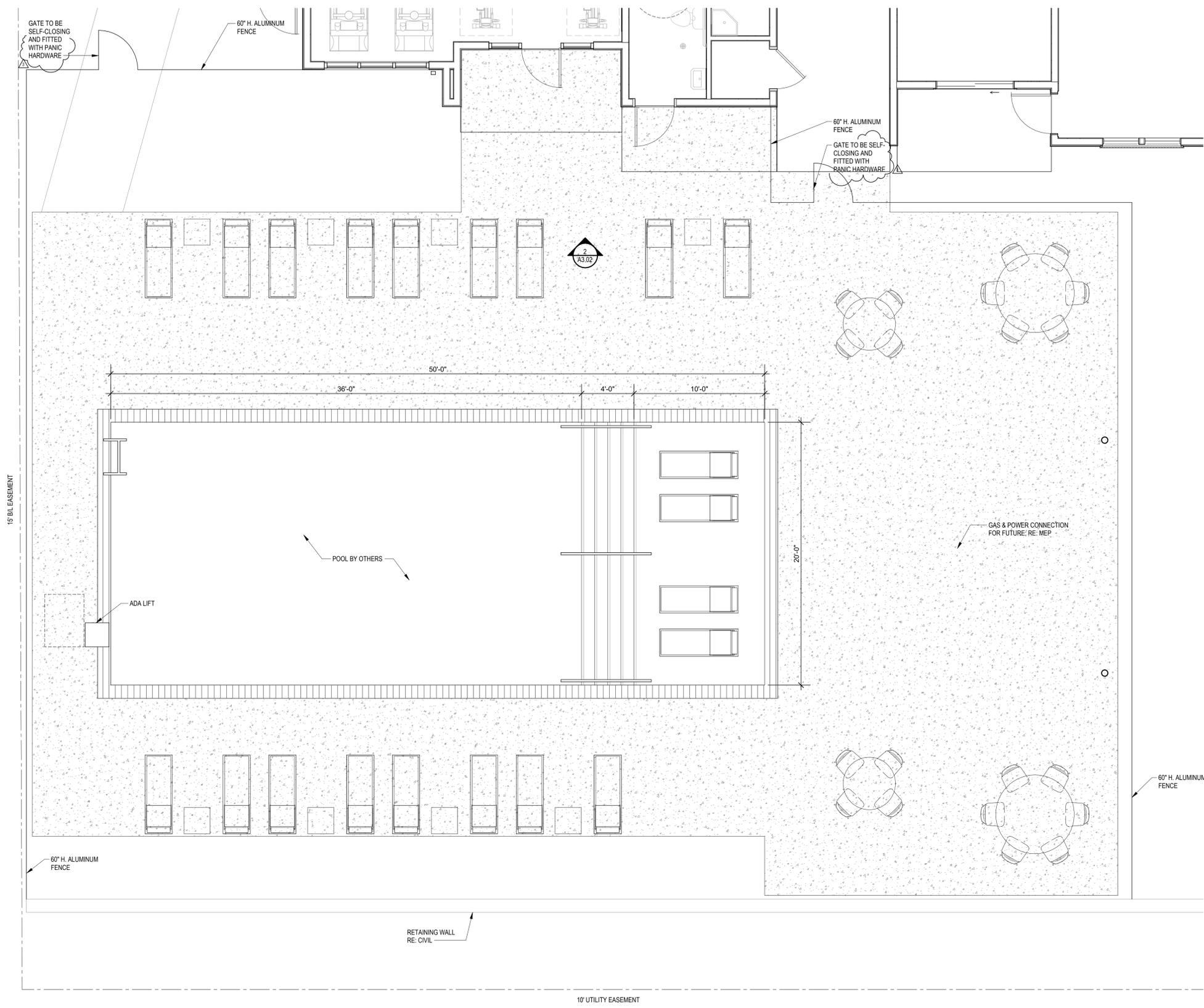
DRAWING RELEASE LOG
 • 03/23/24 100% CD Set
 • 03/22/24 50% CD Set
 • 04/19/24 90% CD Set

REVISIONS
 1 9/27/24 CITY COMMENT RESPONSES

JOB NO. 740623 DATE 04.19.24
 DRAWN BY SW EM KN
 CD SET/PERMIT

SHEET NAME CLUBHOUSE INTERIOR ELEVATIONS
 SHEET NO.

A7.02



A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
• 02/23/24 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS

1	9/27/24	CITY COMMENT RESPONSES
3	10/21/24	CITY COMMENT RESPONSES

JOB NO. **740623** DATE **04.19.24**
DRAWN BY **SW EM KN**
CD SET/PERMIT

SHEET NAME
POOL DECK PLAN

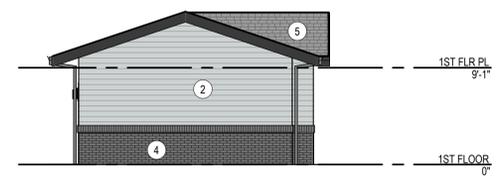
SHEET NO.
A7.10

1 POOL DECK PLAN
1/4" = 1'-0"

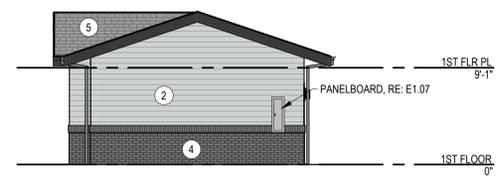


EXTERIOR MATERIAL LEGEND:

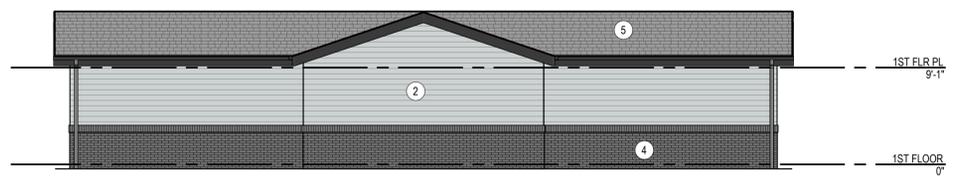
- 1 BOARD & BATTEN - WHITE SNOWBOUND SW 7004
- 2 LAP SIDING - GREY MISTY SW 6232
- 3 LAP SIDING - BLUE SMOKY BLUE SW 7604
- 4 BRICK AND/OR STONE AS CHOSEN BY THE DEVELOPER
- 5 ASPHALT SHINGLES
- 6 STANDING SEAM METAL ROOF



7 GARAGE 1 - RIGHT ELEVATION
1/8" = 1'-0"



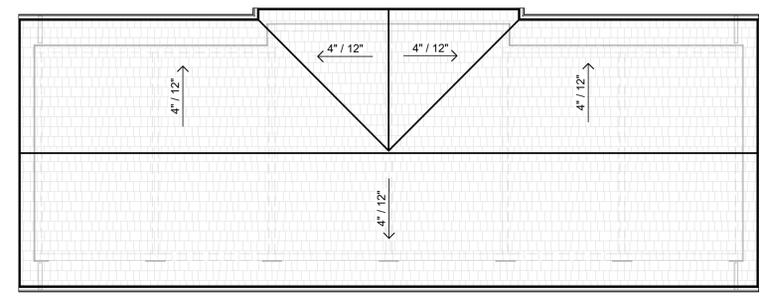
6 GARAGE 1 - LEFT ELEVATION
1/8" = 1'-0"



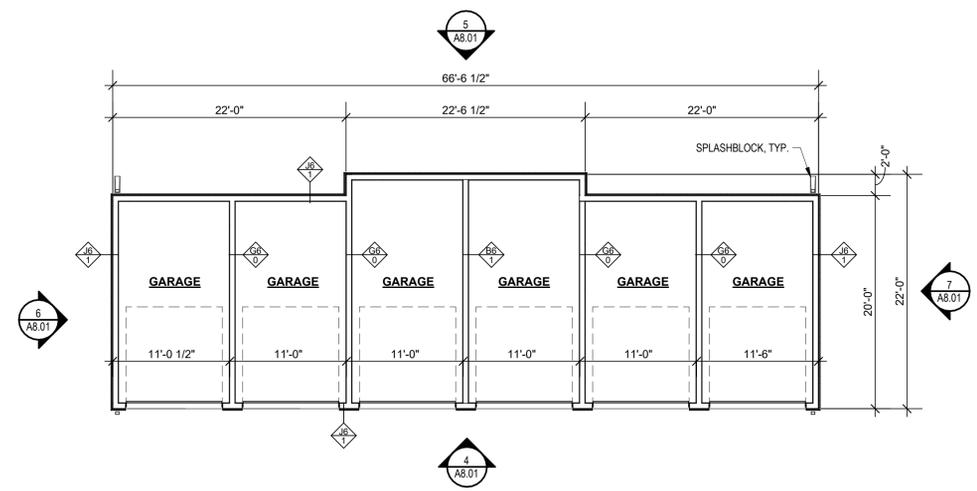
5 GARAGE 1 - REAR ELEVATION
1/8" = 1'-0"



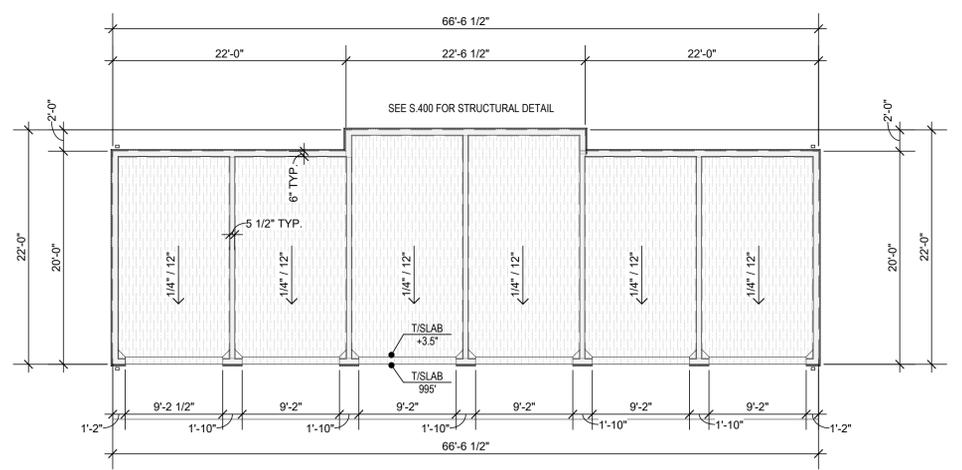
4 GARAGE 1 - FRONT ELEVATION
1/8" = 1'-0"



3 GARAGE 1 - ROOF PLAN
1/8" = 1'-0"



2 GARAGE 1 - FLOOR PLAN
1/8" = 1'-0"



1 GARAGE 1 - SLAB PLAN
1/8" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
• 03/23/24 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS

JOB NO. 740623 DATE 04.19.24
DRAWN BY SW EM KN
CD SET/PERMIT

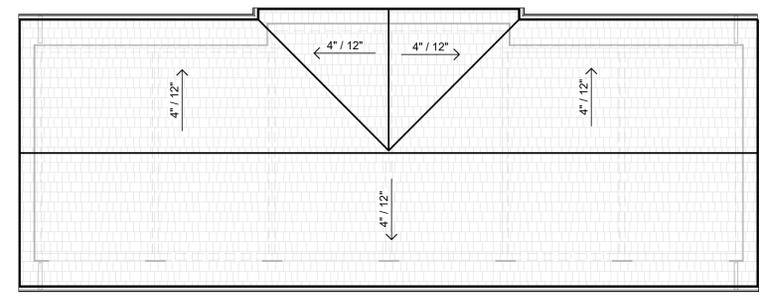
SHEET NAME GARAGE 1 PLANS

SHEET NO. **A8.01**

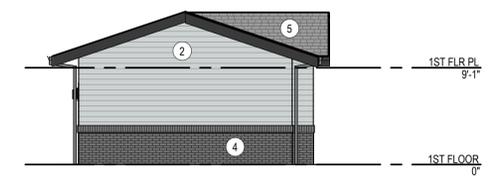


EXTERIOR MATERIAL LEGEND:

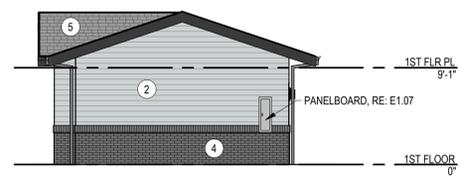
- 1 BOARD & BATTEN - WHITE SNOWBOUND SW 7004
- 2 LAP SIDING - GREY MISTY SW 6232
- 3 LAP SIDING - BLUE SMOKY BLUE SW 7604
- 4 BRICK AND/OR STONE AS CHOSEN BY THE DEVELOPER
- 5 ASPHALT SHINGLES
- 6 STANDING SEAM METAL ROOF



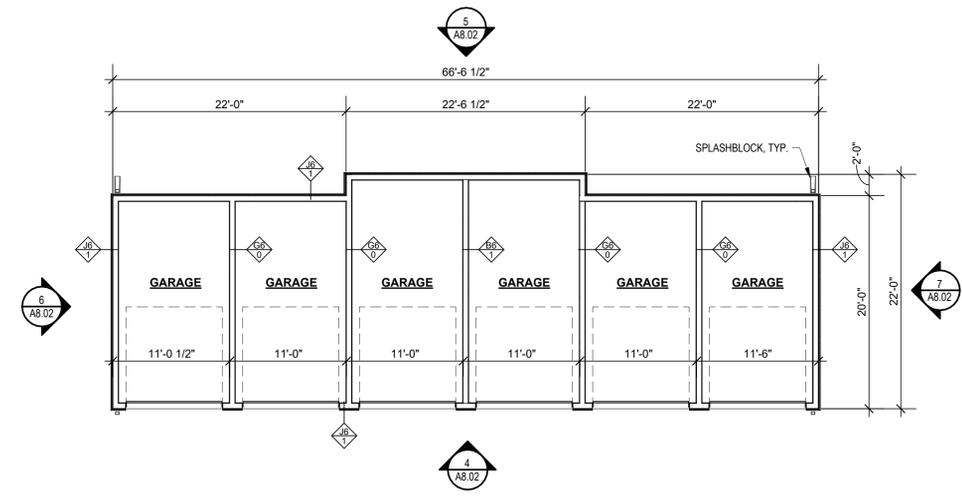
3 GARAGE 2 - ROOF PLAN
1/8" = 1'-0"



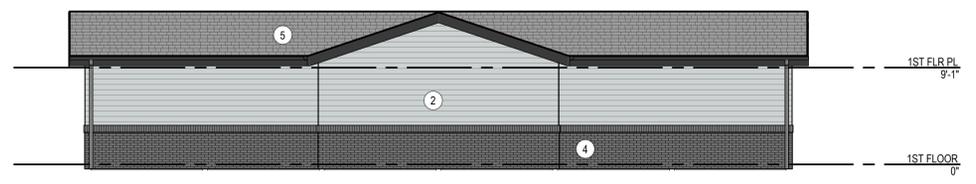
7 GARAGE 2 - RIGHT ELEVATION
1/8" = 1'-0"



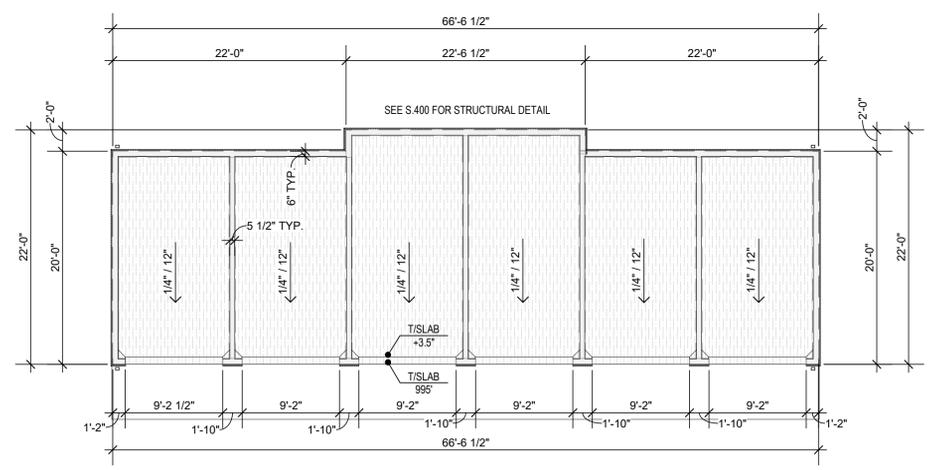
6 GARAGE 2 - LEFT ELEVATION
1/8" = 1'-0"



2 GARAGE 2 - FLOOR PLAN
1/8" = 1'-0"



5 GARAGE 2 - REAR ELEVATION
1/8" = 1'-0"



1 GARAGE 2 - SLAB PLAN
1/8" = 1'-0"



4 GARAGE 2 - FRONT ELEVATION
1/8" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
• 02/23/24 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS

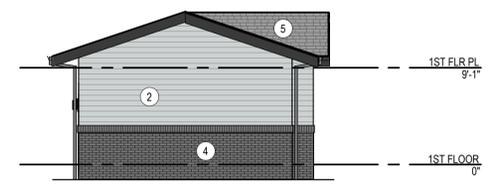
JOB NO. 740623 DATE 04.19.24
DRAWN BY SW EM KN
CD SET/PERMIT

SHEET NAME
GARAGE 2 PLANS

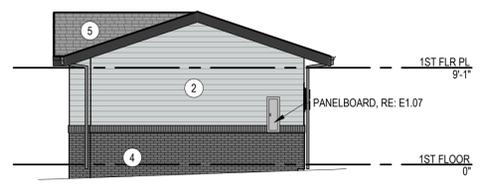
SHEET NO.
A8.02

EXTERIOR MATERIAL LEGEND:

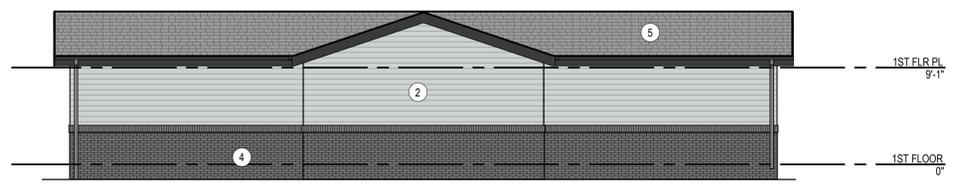
- 1 BOARD & BATTEN - WHITE SNOWBOUND SW 7004
- 2 LAP SIDING - GREY MISTY SW 6232
- 3 LAP SIDING - BLUE SMOKY BLUE SW 7604
- 4 BRICK AND/OR STONE AS CHOSEN BY THE DEVELOPER
- 5 ASPHALT SHINGLES
- 6 STANDING SEAM METAL ROOF



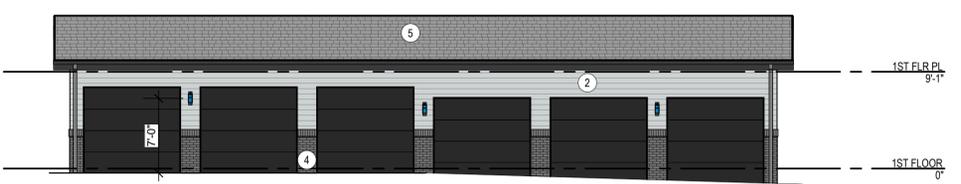
7 GARAGE 3 - RIGHT ELEVATION
1/8" = 1'-0"



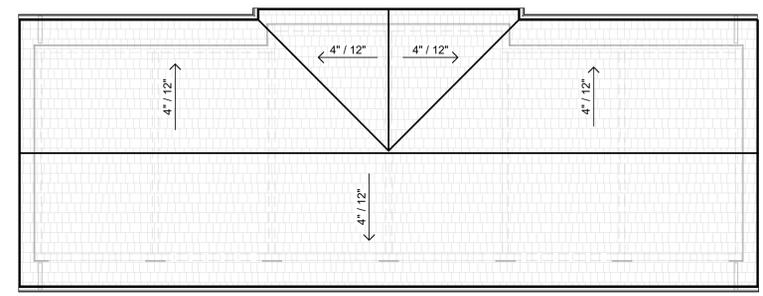
6 GARAGE 3 - LEFT ELEVATION
1/8" = 1'-0"



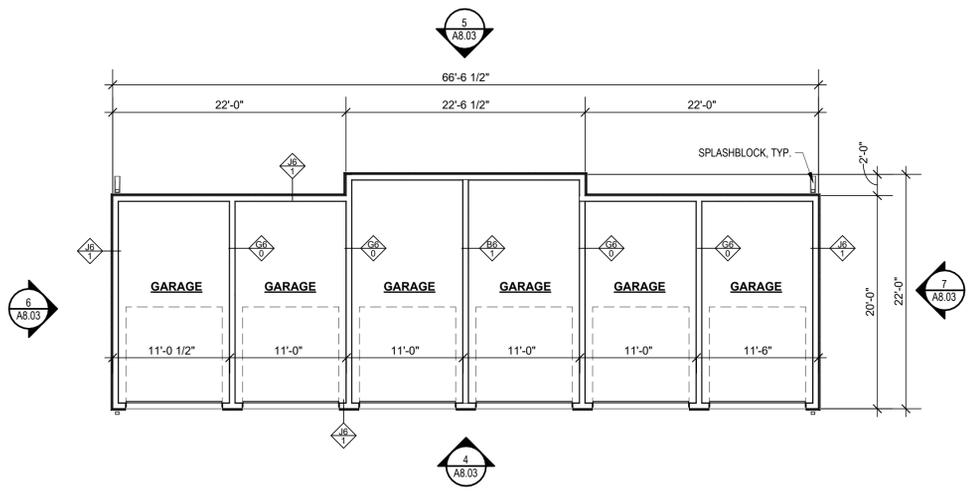
5 GARAGE 3 - REAR ELEVATION
1/8" = 1'-0"



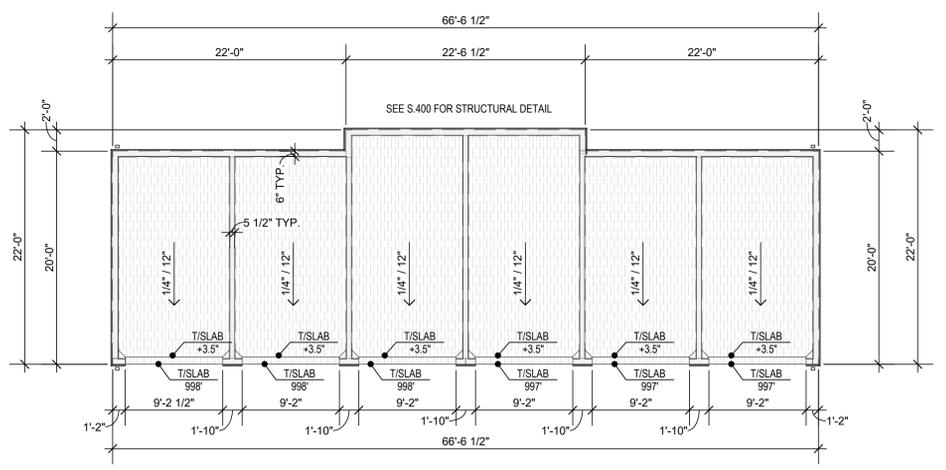
4 GARAGE 3 - FRONT ELEVATION
1/8" = 1'-0"



3 GARAGE 3 - ROOF PLAN
1/8" = 1'-0"



2 GARAGE 3 - FLOOR PLAN
1/8" = 1'-0"



1 GARAGE 3 - SLAB PLAN
1/8" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
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NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
• 02/23/24 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS

JOB NO. 740623 DATE 04.19.24
DRAWN BY SW EM KN
CD SET/PERMIT

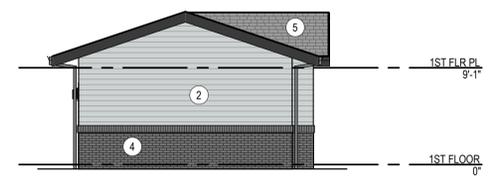
SHEET NAME GARAGE 3 PLANS

SHEET NO. **A8.03**

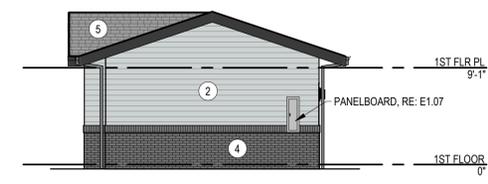


EXTERIOR MATERIAL LEGEND:

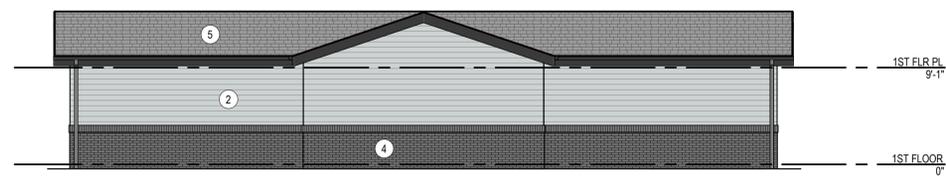
- 1 BOARD & BATTEN - WHITE SNOWBOUND SW 7004
- 2 LAP SIDING - GREY MISTY SW 6232
- 3 LAP SIDING - BLUE SMOKY BLUE SW 7604
- 4 BRICK AND/OR STONE AS CHOSEN BY THE DEVELOPER
- 5 ASPHALT SHINGLES
- 6 STANDING SEAM METAL ROOF



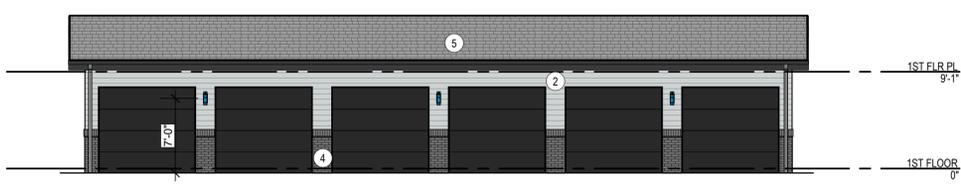
7 GARAGE 4 - RIGHT ELEVATION
1/8" = 1'-0"



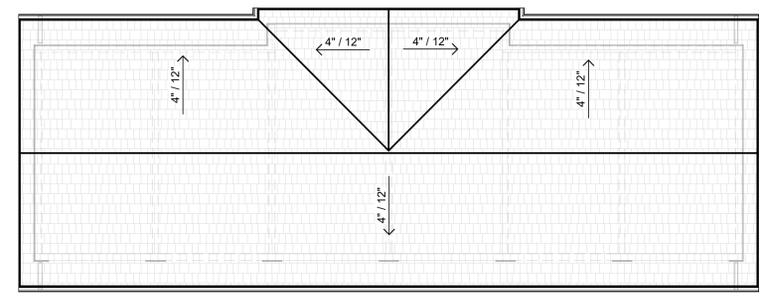
6 GARAGE 4 - LEFT ELEVATION
1/8" = 1'-0"



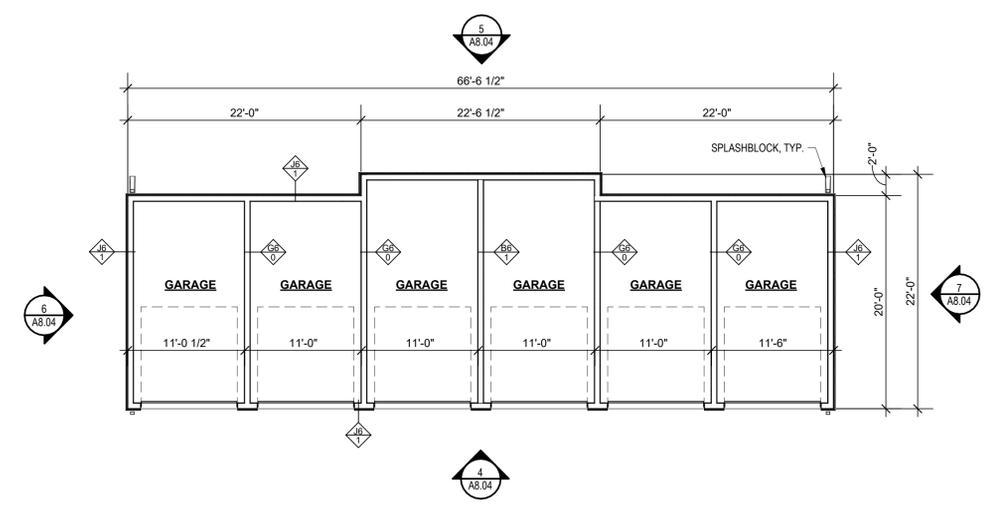
5 GARAGE 4 - REAR ELEVATION
1/8" = 1'-0"



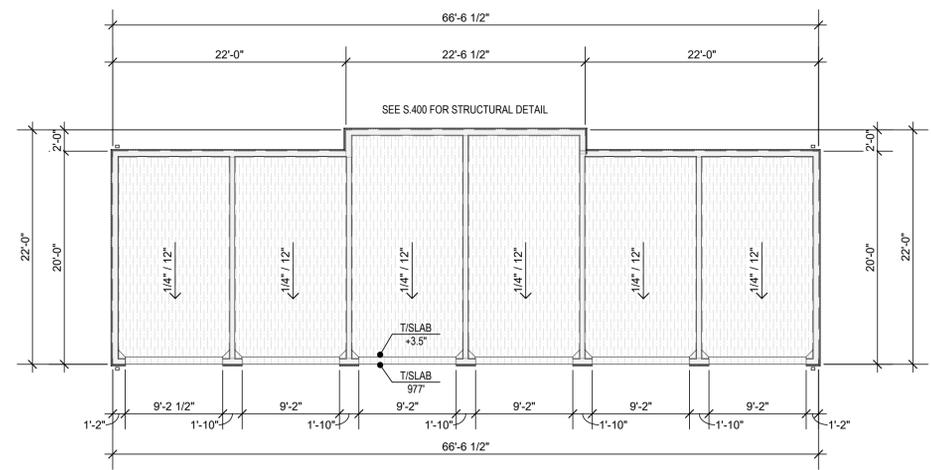
4 GARAGE 4 - FRONT ELEVATION
1/8" = 1'-0"



3 GARAGE 4 - ROOF PLAN
1/8" = 1'-0"



2 GARAGE 4 - FLOOR PLAN
1/8" = 1'-0"



1 GARAGE 4 - SLAB PLAN
1/8" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
• 02/23/24 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS

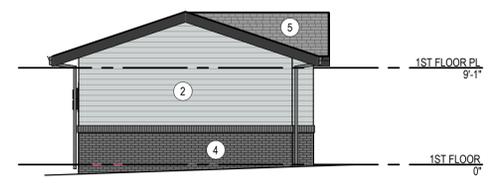
JOB NO. 740623 DATE 04.19.24
DRAWN BY SW EM KN
CD SET/PERMIT

SHEET NAME
GARAGE 4 PLANS

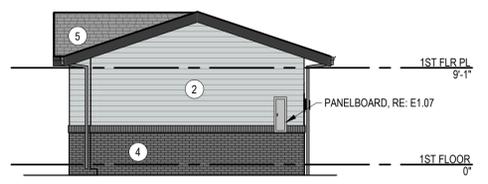
SHEET NO.
A8.04

EXTERIOR MATERIAL LEGEND:

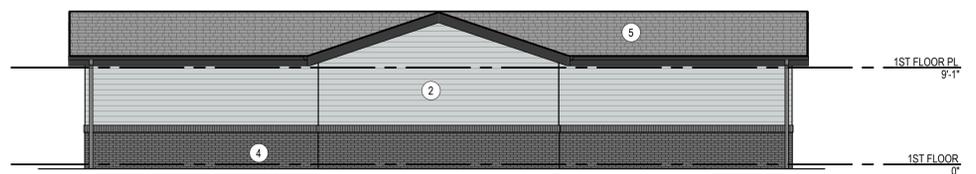
- 1 BOARD & BATTEN - WHITE SNOWBOUND SW 7004
- 2 LAP SIDING - GREY MISTY SW 6232
- 3 LAP SIDING - BLUE SMOKY BLUE SW 7604
- 4 BRICK AND/OR STONE AS CHOSEN BY THE DEVELOPER
- 5 ASPHALT SHINGLES
- 6 STANDING SEAM METAL ROOF



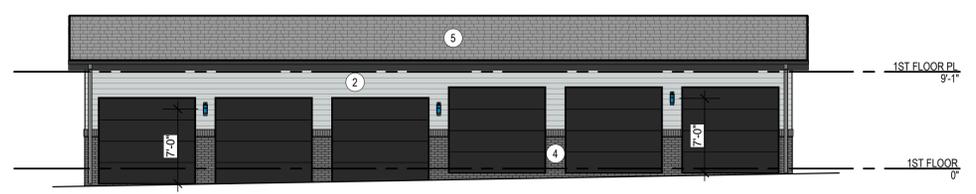
7 GARAGE 5 - RIGHT ELEVATION
1/8" = 1'-0"



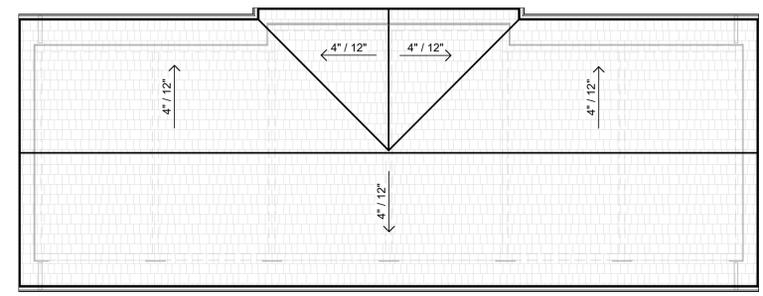
6 GARAGE 5 - LEFT ELEVATION
1/8" = 1'-0"



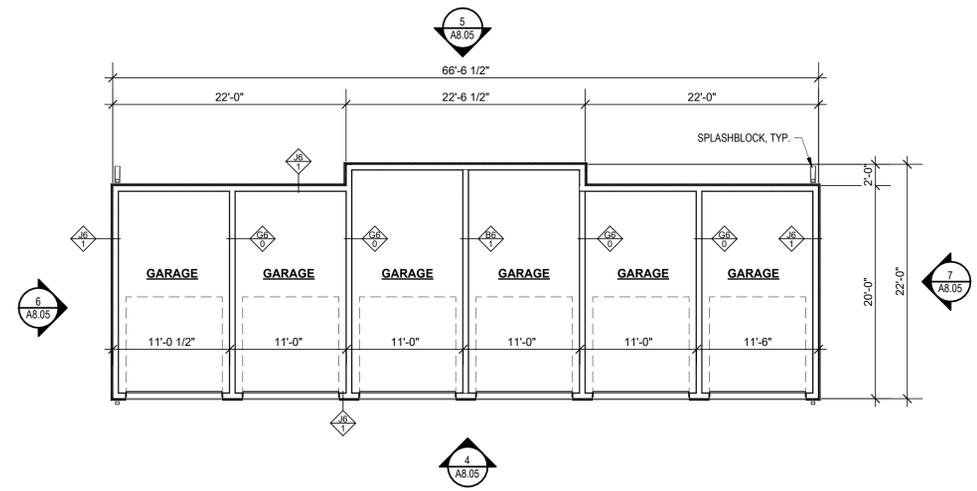
5 GARAGE 5 - REAR ELEVATION
1/8" = 1'-0"



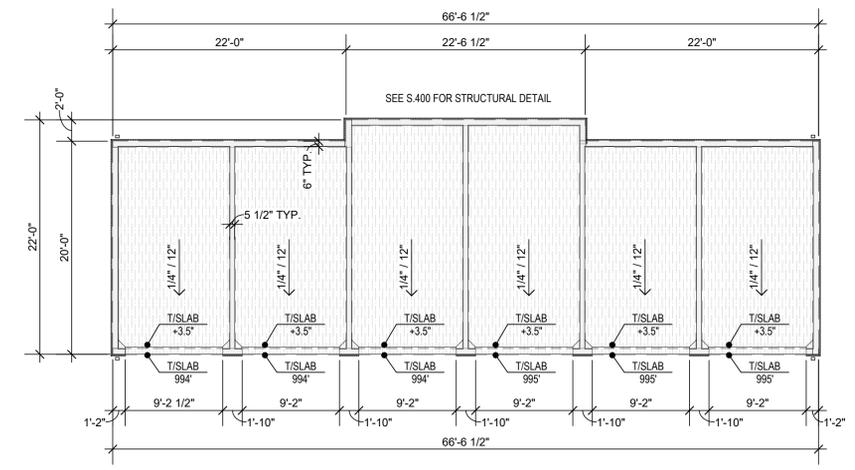
4 GARAGE 5 - FRONT ELEVATION
1/8" = 1'-0"



3 GARAGE 5 - ROOF PLAN
1/8" = 1'-0"



2 GARAGE 5 - FLOOR PLAN
1/8" = 1'-0"



1 GARAGE 5 - SLAB PLAN
1/8" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
• 02/23/24 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS

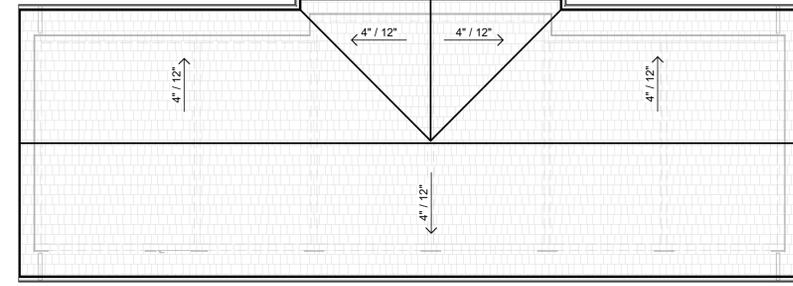
JOB NO. 740623 DATE 04.19.24
DRAWN BY SW EM KN
CD SET/PERMIT

SHEET NAME GARAGE 5 PLANS

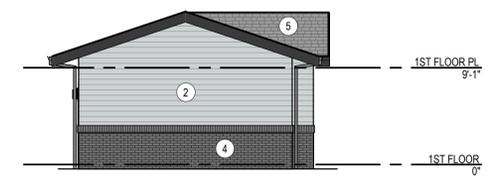
SHEET NO. **A8.05**

EXTERIOR MATERIAL LEGEND:

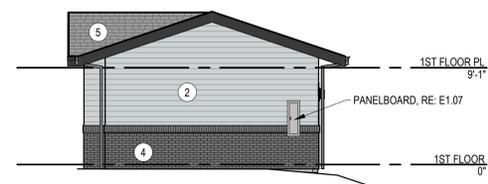
- 1 BOARD & BATTEN - WHITE SNOWBOUND SW 7004
- 2 LAP SIDING - GREY MISTY SW 6232
- 3 LAP SIDING - BLUE SMOKY BLUE SW 7604
- 4 BRICK AND/OR STONE AS CHOSEN BY THE DEVELOPER
- 5 ASPHALT SHINGLES
- 6 STANDING SEAM METAL ROOF



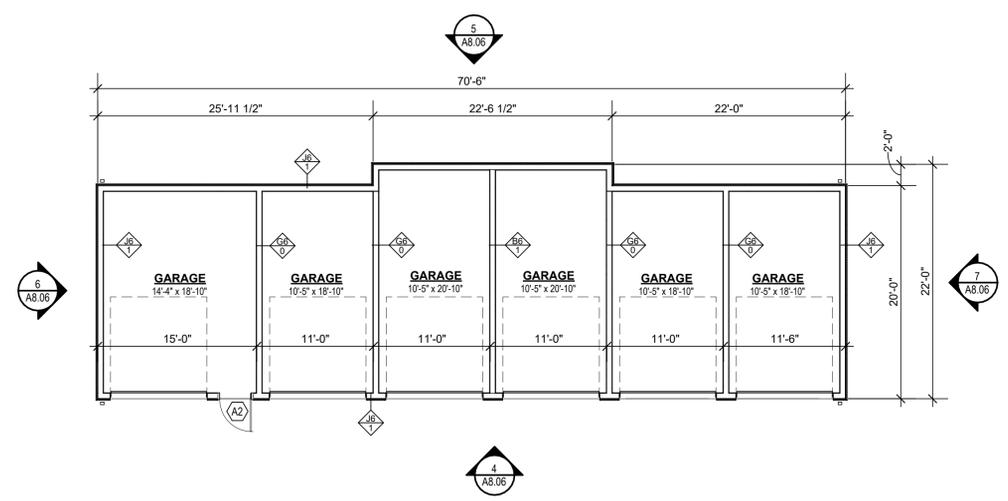
3 GARAGE 6 - ROOF PLAN
1/8" = 1'-0"



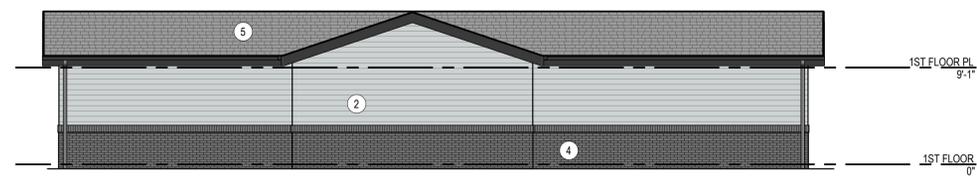
7 GARAGE 6 - RIGHT ELEVATION
1/8" = 1'-0"



6 GARAGE 6 - LEFT ELEVATION
1/8" = 1'-0"



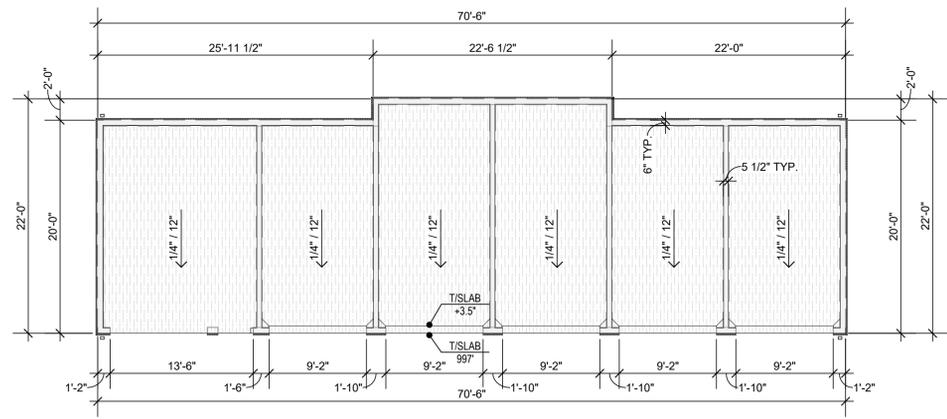
2 GARAGE 6 - FLOOR PLAN
1/8" = 1'-0"



5 GARAGE 6 - REAR ELEVATION
1/8" = 1'-0"



4 GARAGE 6 - FRONT ELEVATION
1/8" = 1'-0"



1 GARAGE 6 - SLAB PLAN
1/8" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
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LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
• 03/23/24 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS

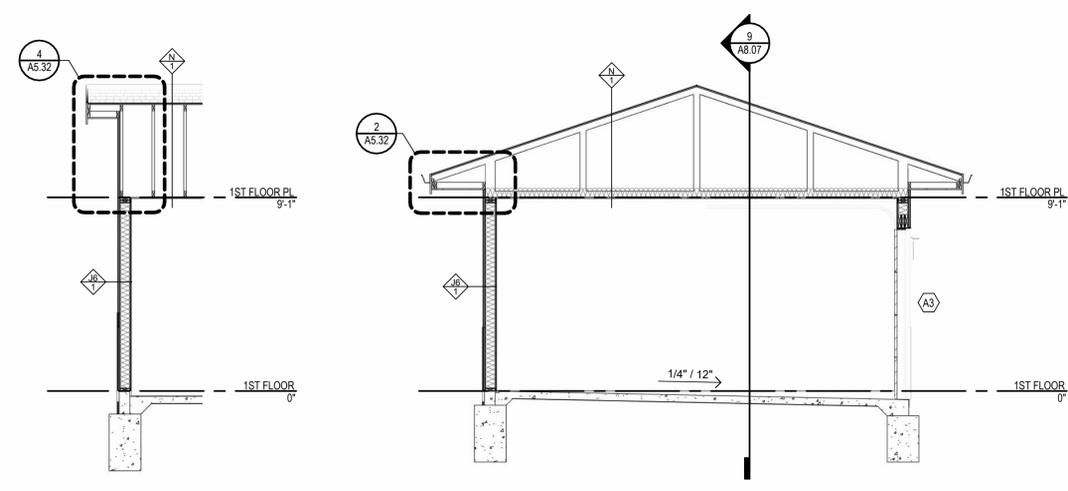
JOB NO. 740623 DATE 04.19.24
DRAWN BY SW EM KN
CD SET/PERMIT

SHEET NAME
GARAGE 6 PLANS

SHEET NO.
A8.06

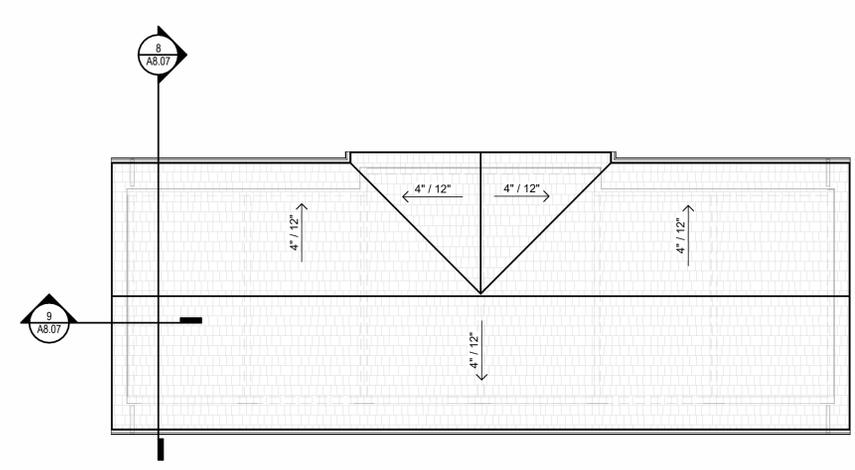
EXTERIOR MATERIAL LEGEND:

- 1 BOARD & BATTEN - WHITE SNOWBOUND SW 7004
- 2 LAP SIDING - GREY MISTY SW 6232
- 3 LAP SIDING - BLUE SMOKY BLUE SW 7604
- 4 BRICK AND/OR STONE AS CHOSEN BY THE DEVELOPER
- 5 ASPHALT SHINGLES
- 6 STANDING SEAM METAL ROOF

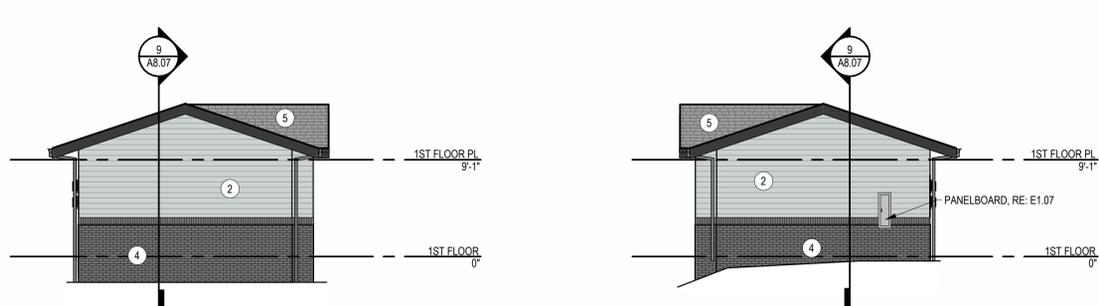


9 GARAGE SECTION
1/4" = 1'-0"

8 GARAGE SECTION
1/4" = 1'-0"

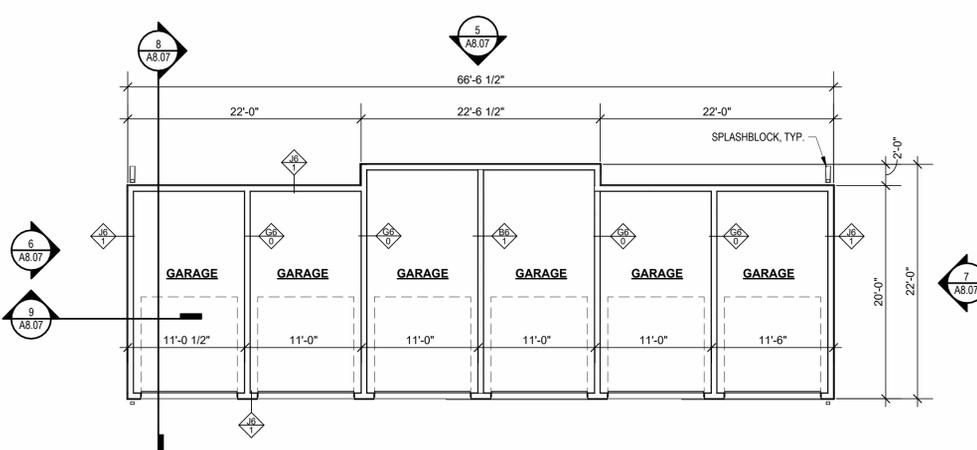


3 GARAGE 7 - ROOF PLAN
1/8" = 1'-0"

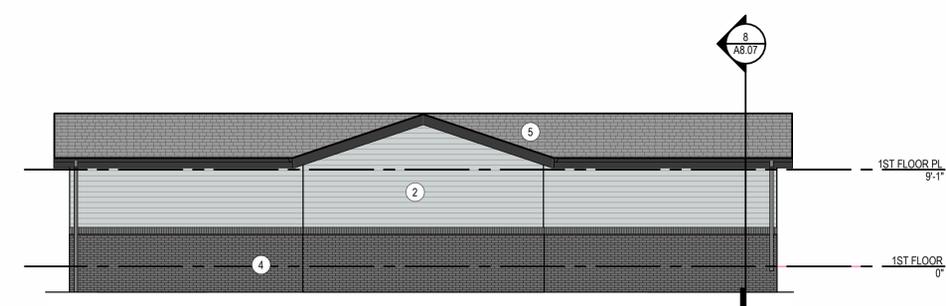


7 GARAGE 7 - RIGHT ELEVATION
1/8" = 1'-0"

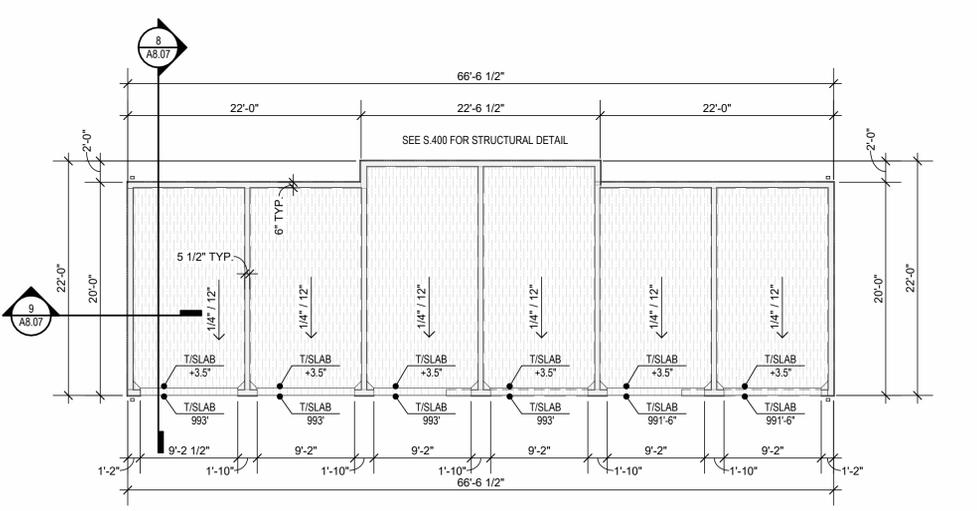
6 GARAGE 7 - LEFT ELEVATION
1/8" = 1'-0"



2 GARAGE 7 - FLOOR PLAN
1/8" = 1'-0"



5 GARAGE 7 - REAR ELEVATION
1/8" = 1'-0"



1 GARAGE 7 - SLAB PLAN
1/8" = 1'-0"



4 GARAGE 7 - FRONT ELEVATION
1/8" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
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LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
 • 02/23/24 100% CD Set
 • 03/22/24 50% CD Set
 • 04/19/24 90% CD Set

REVISIONS

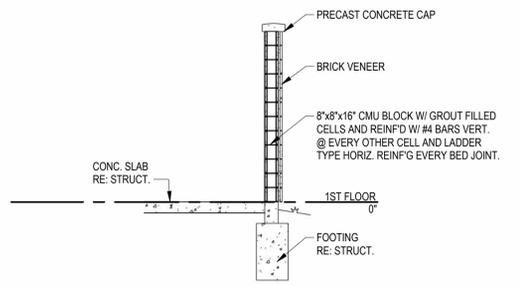
JOB NO. 740623 DATE 04.19.24
 DRAWN BY SW EM KN
 CD SET/PERMIT

SHEET NAME GARAGE 7 PLANS

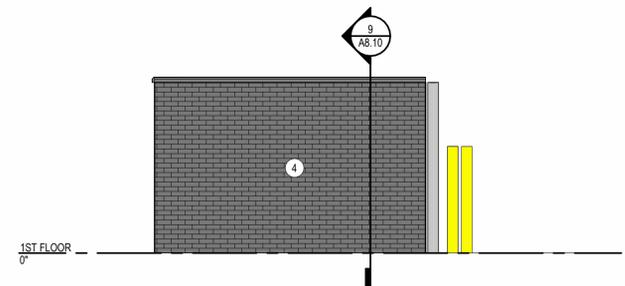
SHEET NO. **A8.07**

EXTERIOR MATERIAL LEGEND:

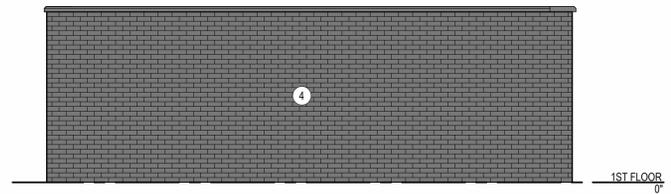
- 1 BOARD & BATTEN - WHITE SNOWBOUND SW 7004
- 2 LAP SIDING - GREY MISTY SW 6232
- 3 LAP SIDING - BLUE SMOKY BLUE SW 7604
- 4 BRICK ANDIOR STONE AS CHOSEN BY THE DEVELOPER
- 5 ASPHALT SHINGLES
- 6 STANDING SEAM METAL ROOF



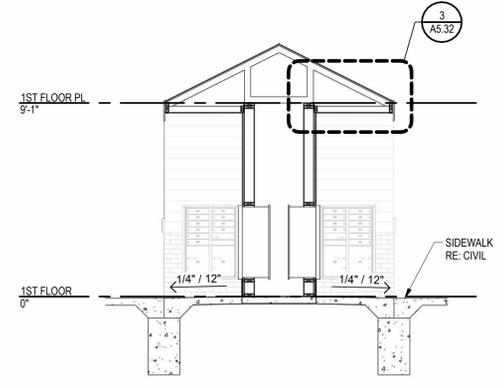
9 TRASH SECTION
1/4" = 1'-0"



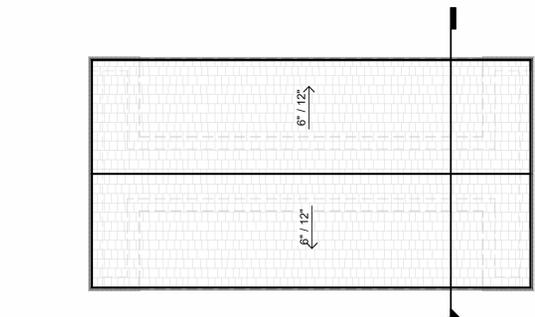
10 TRASH SIDE
1/4" = 1'-0"



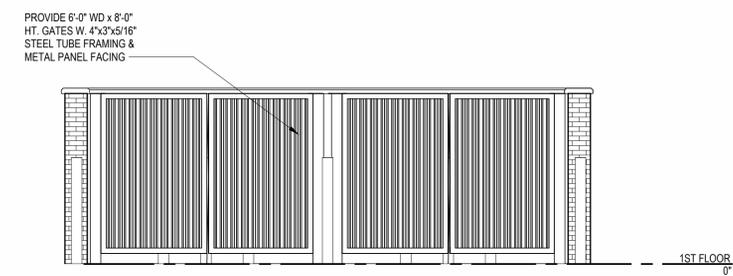
11 TRASH REAR
1/4" = 1'-0"



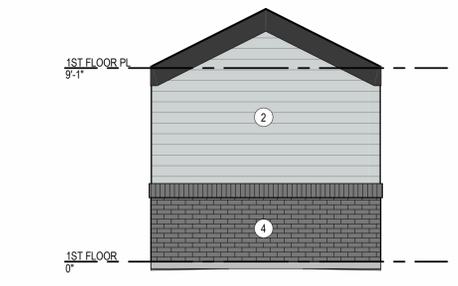
6 MAIL KIOSK SECTION
1/4" = 1'-0"



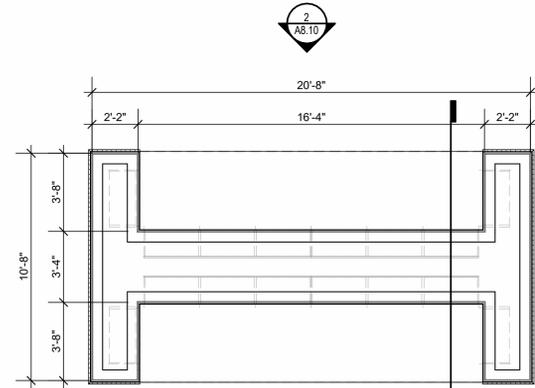
5 MAIL KIOSK ROOF PLAN
1/4" = 1'-0"



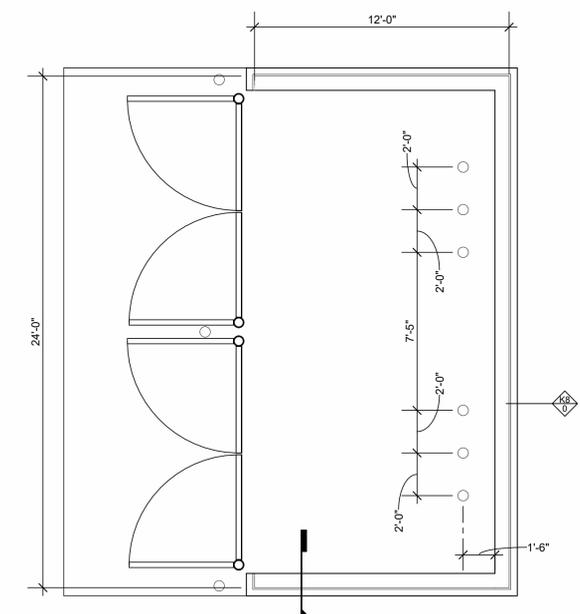
8 TRASH FRONT
1/4" = 1'-0"



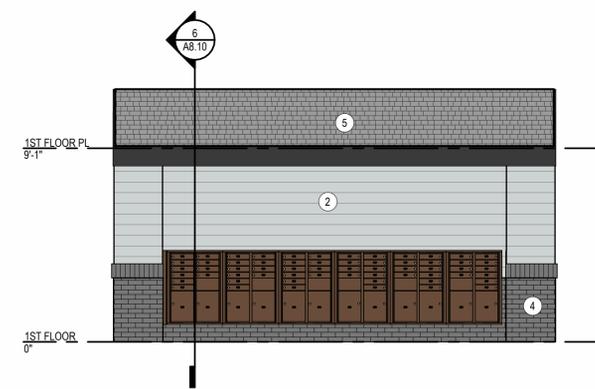
3 MAIL SIDE
1/4" = 1'-0"



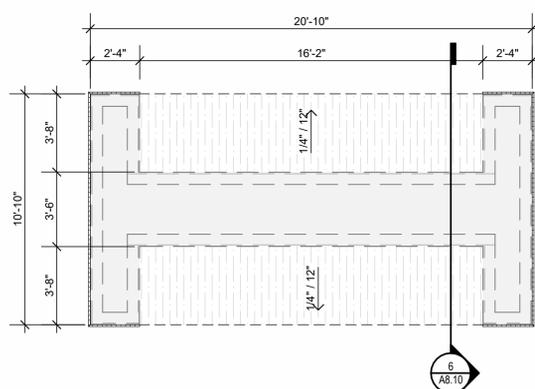
1 MAIL KIOSK PLAN
1/4" = 1'-0"



7 TRASH ENCLOSURE PLAN
1/4" = 1'-0"



2 MAIL FRONT
1/4" = 1'-0"



4 MAIL KIOSK SLAB PLAN
1/4" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
• 02/23/24 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS

JOB NO. 740623 DATE 04.19.24
DRAWN BY SW EM KN
CD SET/PERMIT

SHEET NAME MAIL KIOSK & TRASH ENCLOSURE
SHEET NO.

A8.10



A NEW APARTMENT COMMUNITY AT: DOUGLAS STATION NW SLOAN & NESYCAMORE ST LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG 03/22/24 10% CD Set 03/22/24 50% CD Set 04/19/24 90% CD Set

REVISIONS

JOB NO. DATE 740623 04.19.24 DRAWN BY BDC CD SET/PERMIT

SHEET NAME GENERAL NOTES

SHEET NO. S0.01

Sheet List table with columns: Sheet Number, Sheet Name, Current Revision, Current Revision Date. Lists sheets S0.01 through S4.10 including General Notes, Typical Wood Details, Framing Plans, and Foundation Sections.

ESTIMATED BUILDING MOVEMENT TABLE with columns: FLOOR, ACCUMULATIVE WOOD SHRINKAGE. Shows values for Roof (1"), 3rd Floor (0.7"), and 2nd Floor (0.35").

Wood Shrinkage Notes:

Bob D. Campbell & Company takes no responsibility for the naturally-occurring shrinkage that will occur in a wood structure or the impact the movement will have on the architectural, mechanical, electrical and plumbing systems that are designed by others.

Estimated values are based on the following moisture content in the framing a. At install (MC) = 11% b. At equilibrium (EMC) = 8%

Reference wall sections on this sheet for estimated cumulative values per floor.

The following is a list of recommendations to minimize potential issues related to wood shrinkage and veneer expansion. Veneer expansion is seasonal and variable depending on sun exposure.

- 1. MEP System Considerations a. Postpone MEP installation as long as possible to allow as much dead load to be applied... b. Provide oversized and vertically slotted holes at pipe horizontal penetration and notches... c. Plumbing pipes and electrical conduit joints and connections shall be flexible and allow for expansion/contraction to prevent a rigid assembly... d. Hangers and necessary rigid connections shall be adjusted prior to completion of construction or closing of wall/ceiling assembly... e. Horizontal vent penetrations through exterior veneers shall be provided with double flashing... f. All sheet metal vertical down spouts shall have intermediate slip joints... g. Roof drains shall utilize adjustable fittings that are adjusted back to the roof finish sheathing elevation at the completion of construction and then shall be adjusted as required to maintain proper drainage... h. Where possible, horizontal runs of plumbing system components should be routed within the truss cavity space to avoid routing horizontally through stud framing.

2. Architectural System Considerations

- a. All stucco, EIFS and thin set veneer systems provide horizontal expansion joints, slip joints with appropriate flashing, this includes transitions between changes in veneer material. b. At brick and stone veneers provide veneers ties designed to accommodate differential movement. c. Refer to architectural window and door head and sill, parapet, and horizontal material changes for specific horizontal gap requirements between materials. d. Around rigid (concrete/CMU) stair and elevator towers and at fire separation walls provide adjustable thresholds or transitions. 3. Construction Tolerance Considerations a. All studs shall be cut level, square and tight to top and bottom plates to reduce any additional shortening of the building due to nesting. b. All wood structural panels on the walls shall have a 1/2" relief gap at each floor level to reduce the potential for bulging. c. All floor sheathing shall have 1/8" gaps around all four sides at time of install to allow for expansion. d. All shearwall holdown shall be checked and tightened immediately prior to sheathing of the walls. If a continuous rod system is utilized for holdowns or uniform uplift anchors, the take-up device pins shall be verified to have been pulled prior to sheathing the walls. e. Delay placement of gyp topping around rigid (concrete/CMU) stair and elevator towers until completion of construction. 4. Material Storage and Protection a. All stored material shall remain covered and elevated from the elements to reduce the potential for an increase in moisture content. b. Do not allow water to pond on the floor sheathing. Provide drain holes in the floor sheathing as required to relieve any water that might temporarily pond. 5. Post Occupancy Consideration a. Recommend a review of roof drains every 3 months for the first 24 months of occupancy and then annually and adjusted as needed. b. Recommend a review of vertical joints at exterior doors, windows and at changes in materials. Caulked as needed as shrinkage occurs and original joint fails. c. Remedial self-leveling work may be required around concrete or CMU stair and elevator towers as needed as shrinkage occurs.

9. Shop Drawing Review

- A. Bob D. Campbell and Company, Inc. will review the General Contractor's (GC) shop drawings and related submittals (as indicated below) with respect to the ability of the detailed work, when complete, to be a properly functioning integral element of the overall structural system designed by Bob D. Campbell and Company, Inc. B. Prior to submittal of any related material to Bob D. Campbell and Company, Inc., the GC shall: 1.) Review each submittal for conformance with the means, methods, techniques, sequences and operations of construction and safety precautions and programs incidental thereto, all of which are the sole responsibility of the GC. 2.) Review and approve each submittal. 3.) Stamp each submittal as approved. C. Bob D. Campbell and Company, Inc. shall assume that no submission comprises a variation unless the GC advises Bob D. Campbell and Company, Inc. with written documentation. D. Bob D. Campbell and Company, Inc. shall review shop drawings and related materials with comments provided that each submission has met the above requirements. Bob D. Campbell and Company, Inc. shall return without comment unrequired material or submissions without GC approval stamp. E. Shop drawings and related material (if any) required are indicated below. Should Bob D. Campbell and Company, Inc. require more than ten (10) working days to perform the review, Bob D. Campbell and Company, Inc. shall so notify the GC. 1.) Concrete mix designs and material certificates including admixtures and compounds applied to the concrete after placement. 2.) Reinforcing steel shop drawings including erection drawings and bending details. Bar list will not be reviewed for correct quantities. 3.) Construction and control joint plans and/or elevations. 4.) Structural steel shop drawings including erection drawings and piece details, include joist, decking and connector submittals. Include miscellaneous framing specified on the structural drawings, but do not submit framing specified on non-structural drawings for Bob D. Campbell and Company, Inc. review. 5.) Miscellaneous anchors shown on the structural drawings. 6.) Wood truss design calculations and detailed erection and fabrication drawings. Standard stick framing shop drawings need not be submitted.

10. Statement of Structural Special Inspections

- A. The structural design for this project is based on completion of special inspections during construction in accordance with section 1704 of the International Building Code. The owner shall employ one or more qualified special inspectors to provide the required special inspections. B. The special inspector shall furnish inspection reports to the building official, owner, architect and structural engineer, and any other designated person. C. All discrepancies shall be brought to the immediate attention of the contractor for correction, then, if uncorrected, to the proper design authority, building official and structural engineer. D. The special inspector shall submit a final signed report stating that the work required special inspection was, to the best of the inspector's knowledge, in conformance with the approved plans and specifications and the applicable workmanship provisions of the building code. E. The following inspections and tests are required with the frequency (continuous or periodic) as defined within the referenced section or standard listed below. The General Contractor shall provide notification to the inspector when items requiring inspection are ready to be inspected and provide access for those inspections. 1. Shop Fabrication - structural steel per Section 1704.2.5 unless AISC certified shop 2. Shop Fabrication - pre-engineered wood trusses per Section 1704.2.5 unless TPI certified shop 3. Steel Construction per Section 1705.2 and the quality assurance requirements of AISC 341 Chapter 11 (as referenced by AISC 360) 4. Concrete Construction per Section 1705.3 and Table 1705.3 a. Reinforcing Steel Placement b. Reinforcing Steel Welding c. Cast in Place Anchors d. Post Installed Anchors e. Design Mix Verification f. Concrete Sampling and Testing g. Concrete Placement h. Concrete Curing i. Formwork Shape, Location and Dimensions 5. Verification of Soils per Table 1705.6 6. Wood Lateral System (periodic) a. Wood shearwalls (include sheathing, rim board and bottom plate attachments) b. Portal frames c. Shear wall and portal frame holdowns d. Shear wall tension rod system 7. Wood Gravity Framing and Placement (adjust frequency of random sampling where indicated as required) a. Heavy timber/SCI/gulam beams and supports (periodic) b. Headers and jambs (random sampling) c. Bearing walls (random sampling) d. Connector/hardware installation (random sampling) e. Floor and roof trusses (random sampling)

11. Copyright and Disclaimer

- A. All drawings in the structural set (S-series drawings) are the copyrighted work of Bob D. Campbell and company, Inc. These drawings may not be photographed, traced, or copies in any manner without the written permission of Bob D. Campbell and Company, Inc. Exception: Original drawings may be printed for distribution to the owner, architect, and general contractor for coordination, bidding, and construction. Subcontractors may not reproduce these drawings for any purpose or in any manner. B. I, Brandon Ford, P.E., registered engineer and a representative of Bob D. Campbell and Company, Inc., do hereby accept professional responsibility as required by the professional registration laws of this state for the structural design drawings consisting of S-series drawings. I hereby disclaim responsibility for all other drawings in the construction document package, they being the responsibility of other design professionals whose seals and signed statements may appear elsewhere in the construction document package.

5. Structural Steel

- A. All structural steel beams and columns shall be ASTM A992, grade 50 steel and all miscellaneous steel shall be ASTM A36 grade steel (except at moment connections where plates shall be ASTM A572, grade 50). Hollow Structural Sections (HSS) shall be ASTM A500, grade B. Fabrication and erection shall be in accordance with AISC 303-05 "Code of Standard Practice for Steel Buildings and Bridges" in the 13th Edition of the AISC Steel Construction Manual. B. All welding shall conform to the recommendations of the AWS. C. All exterior steel and connections, and brick relief angles shall be hot-dip galvanized. D. All bolts not otherwise specified shall be 3/4" diameter high strength (ASTM A325-N). All bolts shall be fully pretensioned. All beam connections shall be detailed per the AISC Manual of Steel Construction. E. All anchor bolts shall be 3/4" diameter, ASTM F1554, Grade 36 unless noted otherwise. Washers of minimum size and thickness for the given anchor diameter in Table 14-2 of the AISC Steel Construction Manual shall be provided at every column anchor bolt. Washers shall have a standard size hole for the anchor bolt. Washers shall be welded all around to the column base plate with 3/16" fillet weld.

6. Post Installed Anchors

- A. Post-installed anchors shall be used only where specified on the drawings unless approved in writing by the engineer of record. See drawings for anchor diameter, spacing and embedment. Performance values of the anchors shall be obtained for specified products using appropriate design procedures and standards as required by the governing building code. Anchors installed in concrete shall have an ICC-ES Evaluation Service Report. Special inspection is required for all post installed anchors. The contractor shall coordinate an on-site meeting with the post installed anchor manufacturer field representative to educate the construction team on the anchor installation guidelines and requirements. B. Mechanical anchors used in cracked and uncracked concrete shall have been tested and qualified for use in accordance with ACI 355.2 and ICC-ES AC109. All anchors shall be installed per the anchor manufacturer's written instructions. C. Adhesive anchors used in cracked and uncracked concrete shall have been tested and qualified for use in accordance with ICC-ES AC308. All anchors shall be installed per the anchor manufacturer's written instructions. D. Mechanical anchors used in solid grouted masonry shall have been tested and qualified for use in accordance with ICC-ES AC01. All anchors shall be installed per the anchor manufacturer's written instructions. E. Adhesive anchors used in solid grouted masonry shall have been tested and qualified for use in accordance with ICC-ES AC08. All anchors shall be installed per the anchor manufacturer's written instructions. F. Anchors used in hollow concrete masonry shall have been tested and qualified in accordance with ICC-ES AC106 or ICC-ES AC58 as appropriate. All anchors shall be installed per the anchor manufacturer's written instructions with appropriate screen tubes used for adhesives.

7. Foundations

- A. The soil investigation was prepared by Kansas City Testing & Engineering LLC, the report number is G20-23-092 and the telephone number is (913) 321-8100. B. Spread footings, grade beams, and retaining walls are designed to bear on engineered fill or undisturbed soil capable of safely sustaining 2000 psf. Over-excavate undocumented fill as required per geotech report. C. Restrained retaining walls are designed for an at-rest lateral load of 65 pcf equivalent fluid pressure. D. Contractor shall provide for dewatering at excavations from either surface water or seepage. E. All foundation excavations shall be inspected by a qualified soil engineer, approved by the architect and/or structural engineer, prior to placement of steel or concrete. This inspection shall be at the owner's expense. F. Moisture content in soils beneath building locations should not be allowed to change after footing excavations and after grading for slabs on grade are completed. If subgrade materials become desiccated or softened by water or other conditions, recompact materials to the density and water content specified for engineering fill. Do not place concrete on frozen ground.

8. Timber and Wood Framing

- A. Quality and construction of wood framing members and their fasteners for load supporting purposes not otherwise indicated on the drawings shall be in accordance with the International Building Code. B. All studs and top and bottom plates shall be Douglas Fir No. 2 grade visually graded lumber, with an allowable fiber stress in bending of 900 psi minimum and an elastic modulus of 1,600,000psi unless noted otherwise. All joist, truss members, and headers to be installed shall be Douglas Fir No. 2 grade. C. Blocking of stud bearing walls and shear walls shall be solid, matching sheathing joints. D. Joist blocking and bridging shall be solid wood or cross bridging of either wood or metal straps. Spacing, in any case, shall not exceed 8'-0". E. Wood members and sheathing shall be fastened with number and size of fasteners not less than that set forth in Table 2304.9.1 of the International Building Code. Floor sheathing shall be APA rated tongue and groove Sturd-I-Floor, exposure 1, glued and nailed with 8d ring shank nails or #10 screws at 12" on center to all supports. Sheathing of shear walls or roof diaphragms shall be edge nailed with 8d common nails at 6" on center and nailed to intermediate framing and/or blocking members with 8d common nails at 12" on center unless otherwise noted on the drawings. All floor sheathing shall be installed with 1/8 inch gaps between panel edges and end joints. F. Sill plates shall be bolted to concrete walls or steel beams with 1/2" diameter bolts at 32" on center. Sill plates in direct contact with concrete or masonry shall be treated lumber. G. Joist hangers shall have Uniform Building Code approval and shall be equal to Simpson Strong Tie "LUS" for wood application and "LB" for steel weld-on application. H. Service condition - dry with moisture content at or below 19% in service. I. Laminated veneer lumber (LVL) shall have an allowable flexural stress (Fb) of 2,800 psi (reduced by size factor) and an elastic modulus (E) of 1,900,000 psi. J. Glulam members shall have an allowable flexural stress (Fb) of 3,000 psi and an elastic modulus (E) of 2,100,000 psi. K. Pre-engineered wood trusses shall be designed in accordance with the Truss Plate Institute's national design standard for metal-plate connected wood truss construction (ANSI/TPI-1 latest edition). Trusses shall be designed and manufactured by an authorized member of the Wood Truss Council of America (WTCA). Truss design shall conform to specified codes, allowable stress increases, deflection limitations and other applicable criteria of the governing code. L. Shop drawings showing complete erection and fabrication details and calculations (including connections) shall be submitted to the project architect/engineer for review prior to fabrication and/or erection. Such drawings shall bear the seal of a professional engineer, registered in the state of the project location. Shop drawings shall also be submitted to the local government controlling agency when requested by that agency. M. All trusses shall be securely braced both during erection and permanently, as indicated on the approved truss design drawings and in accordance with TPI's commentary and recommendations for handling, installing and bracing metal-plate connected wood trusses (HIB-91, booklet) and the latest edition of ANSI/TPI-1. N. The truss manufacturer shall supply all hardware and fasteners for joining truss members together and fastening truss members to their supports. Metal connector plates shall be manufactured by a member of the Wood Truss Council of America (WTCA) and shall be 20 gauge minimum. Connector plates shall meet or exceed ASTM A653, grade 33, with ASTM A924 galvanized coating designation G60. O. Shipment, handling, and erection of trusses shall be by experienced, qualified persons and shall be performed in a manner so as not to endanger life or property. Apparent damage shall be reported to the truss manufacturer for evaluation prior to erection. Cutting or alteration of trusses is not permitted. P. Contractor shall coordinate truss layout for openings and penetrations required by other trades including for plumbing, HVAC, electrical, roof access hatches, chases, etc. Q. Pre-engineered roof truss design load and deflection criteria are as follows: Top Chord Dead Load = 20 psf Top Chord Live Load = Per General Note 2A Bottom Chord Dead Load = 5 psf Allowable Total Load Deflection = L/360 Allowable Live Load Deflection = L/480, 1/2" maximum R. Pre-engineered roof truss design load and deflection criteria are as follows: Top Chord Dead Load = 15 psf Top Chord Live Load = 20 psf Bottom Chord Dead Load = 10 psf Bottom Chord Live Load = 20 psf (non-concurrent with top chord live load) Allowable Total Load Deflection = L/300 Allowable Live Load Deflection = L/360 Roof trusses shall be designed for wind uplift loads indicated in Building Components & Cladding Wind Loads Diagram. Dead load used for uplift load combinations shall be 10 psf top chord and 5 psf bottom chord.

GENERAL NOTES - STRUCTURAL

1. General Information

- A. The contractor shall verify dimensions and conditions before construction and notify the engineer of any discrepancies, inconsistencies, or difficulties affecting the work before proceeding. B. The contractor shall coordinate all disciplines, verifying size and location of all openings, whether shown on structural drawings or not, as called for on architectural, mechanical, or electrical drawings. In the case of work in an existing building the contractor shall scan existing structure to locate all rebar in the area of the new core/opening using ground penetrating radar and notify the engineer of record for review prior to coring/cutting. Conflicts, inconsistencies, or other difficulties affecting structural work shall be called to the architect or engineer's attention for direction before proceeding. C. All design and construction work for this project shall conform to the requirements of the following governing design codes: 1.) International Building Code (IBC 2018) as amended by the city of Lee's Summit, MO. 2.) Minimum Design Loads for Buildings and Other Structures (ASCE7-16) 3.) Specification for Structural Steel Buildings (AISC 360-16) Member Design Basis is Allowable Stress Design (ASD) Connection Design Basis is Allowable Stress Design (ASD) 4.) Structural Welding Code (AWS D1.3-2018) 5.) Building Code Requirements for Structural Concrete (ACI 318-14) 6.) National Design Specification (NDS) for Wood Construction with 2012 Supplements (ANSI/AWC NDS-2012) 7.) Special Design Provisions for Wind and Seismic (AWC SDPWS-2008) 8.) Design and Construction of Post-Tensioned Slabs-on-Ground, 2008 D. These drawings are for this specific project and no other use is authorized.

2. Structural Load Design Criteria

- A. Floor Live: Apartments = 55 psf (includes 15 psf partition) Stairs = 100 psf Uninhabitable Atic = 20 B. Roof Live = 20 psf C. Snow: Pg = 20 psf, Pf = 14 psf, Pm = 20 psf, Is = 1.0, Ce = 1.0, Ct = 1.0, Drift per ASCE/SEI 7 D. Lateral Loads: 1.) Wind: V = 110 mph, Exposure C Occupancy [Risk] Category II, Iw=1.0 GCpI=+/-0.18 Design wind pressures to be used for the design of exterior component and cladding materials on the designated zones of wall and roof surfaces shall be per section 30.7 and Table 30.7.2 of ASCE/SEI 7. Tabulated pressures shall be multiplied by effective area reduction factors, exposure adjustment factors, and topographic factors where applicable with: 2.) Seismic: Ss = 0.099, S1 = 0.068 Occupancy [Risk] Category II, Iw=1.0, Site Classification D, Sds = 0.106; Sd1 = 0.109 Seismic Design Category B Basic Seismic Force-resisting System: Light framed walls sheathed with shear panels of all other materials Equivalent Lateral Force Procedure R = 2; V = 0.053W; Omega = 2.5; Cd = 2 E. This project is designed to resist the most critical effects resulting from the load combinations of section 1605.3 of the International Building Code.

3. Concrete

- A. All concrete for foundations shall develop minimum ultimate compressive design strength of 3500 psi in 28 days, but not less than 500 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 6 gallons of water per 100 pounds of cement and not over 4 inches of slump. B. All concrete for interior flatwork shall develop minimum ultimate compressive design strength of 4000 psi in 28 days, but not less than 540 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 5.40 gallons of water per 100 pounds of cement and not over 4 inches of slump. Concrete mix shop drawing shall contain testing data proving concrete design mix shrinkage is less than 0.034% at 28 days when tested according to ASTM C157 (air drying method only). D. All concrete for exterior flatwork shall have a minimum design compressive strength of 4500 psi in 28 days, with not less than 560 pounds of cement per cubic yard of concrete, not over 5 gallons of water per 100 pounds of cement, with 6% +/- 1% air entrainment, and a maximum of 4 inches of slump. F. The preceding minimum mix requirements may have water-reducing admixtures conforming to ASTM C494 added to the mix at manufacturer's dosage rates for improved workability. G. The preceding minimum mix requirements may have up to 15% maximum of the cement content replaced with an approved ASTM C618 Class C fly ash, provided the total minimum cementitious content is not reduced. J. All interior concrete slabs on grade shall be placed over 15 mil, Class A Vapor Barrier per ASTM E1745 with less than 0.01 pems, tested after mandatory conditioning. All joints shall be lapped and sealed per manufacturer's recommendations. All penetrations, as well as damaged vapor barrier material shall also be sealed per manufacturer's recommendation prior to concrete placement. Install barrier per manufacturer recommended details at all discontinuous edges (at interior columns, exterior edge of slab, etc.) to ensure terms of warranty are followed. The vapor barrier shall be placed over free-draining granular material as prescribed by the project soils report. L. All concrete is reinforced concrete unless specifically called out as unreinforced. Reinforce all concrete not otherwise shown with same steel as in similar sections or areas. Any details not shown shall be detailed per ACI 315 and meet requirements of ACI 318, current editions. M. Control joints in dirt formed slab to be as shown on plans. Where not shown, limit controlled areas to not more than 144 square feet, or 12 feet on any side. Slab panel side ratio shall not exceed 1 1/2 to 1. N. Contractor shall verify that all concrete inserts, reinforcing and embedded items are correctly located and rigidly secured prior to concrete placement. O. Construction joints in beams, slabs, and grade beams shall occur at midspan (middle third) unless noted otherwise. Provide 2 x 4 horizontal keys at construction joints for shear transfer. P. No aluminum items shall be embedded in any concrete.

4. Reinforcing Steel

- A. All reinforcing steel shall conform to the requirements of ASTM A615 or A706 grade 60 steel. Welded plain wire fabric shall be supplied in sheets and conform to the requirements of ASTM A185. B. Clear minimum coverage of concrete over reinforcing steel shall be as follows: 1.) Concrete placed against earth: 3" 2.) Formed concrete against earth: 2" 3.) Slabs: 1" 4.) Beams or Columns: 1-1/2" 5.) Other: 2" All coverage shall be nominal bar diameter minimum. C. All dowels shall be the same size and spacing as adjoining main bars (splice lap 48 bar diameters or 30" minimum unless noted otherwise). D. At corners of all slabs, walls, and continuous foundations, supply corner bars (minimum 2'-6" in each direction or 48 bar diameters) in outside face of wall, matching size and spacing of horizontal bars. Where there are no vertical bars in outside face of wall, supply 3 - #4 vertical support bars for corner bars. E. Bars marked continuous and all vertical steel shall be lapped 48 bar diameters (2'-6" minimum) at splices and embedments, unless shown otherwise. Splice top bars near midspan and splice bottom bars over supports, unless noted otherwise. H. Accessories shall be as specified in latest edition of the ACI Detailing Handbook and the concrete Reinforcing Steel Institute Design Handbook. Maximum accessory spacing shall be 4'-0" on center, and all accessories on exposed surfaces are to have plastic coated feet. I. All slabs and stairs not shown otherwise shall be 6" thick with #4 bars at 12" on center each way. All exterior porches and stoops not otherwise detailed may be constructed in any standard manner, solid or hollow, but must be reinforced with #4 bars at 12" on center each way minimum. Porches shall be hooked to adjacent walls or grade beams with #4 bars at 12" on center, hooked or embedded 48 diameters into both members. Slope porches 1/8" (minimum) per foot for drainage (verify slopes and elevations with architect) unless noted otherwise.



MARK	HEADER		JAMB TYPE # (U.N.O. W/ COLUMN SCHEDULE)			NOTES
	FLOOR	ROOF	* 3 * (2nd FLR FRAMING, TYP. U.N.O.)	* 2 * (3rd FLR FRAMING, TYP. U.N.O.)	* 1 * (ROOF FLR FRAMING, TYP. U.N.O.)	
A1-#	(2) 2x8	(2) 2x8	1 JACK / 3 KING	1 JACK / 2 KING	1 JACK / 1 KING	--
A2-#	(2) 2x10	(2) 2x8	1 JACK / 3 KING	1 JACK / 2 KING	1 JACK / 2 KING	--
A3-#	(3) 2x10	(3) 2x8	2 JACK / 3 KING	2 JACK / 2 KING	1 JACK / 2 KING	--
B1-#	(2) 1 3/4" x 9 1/4" LVL	(2) 2x10	2 JACK / 3 KING	2 JACK / 2 KING	1 JACK / 1 KING	--
C1-#	(3) 2x8	(3) 2x10	1 JACK / 1 KING	1 JACK / 1 KING	1 JACK / 1 KING	--
C2-#	(3) 2x8	(3) 2x8	1 JACK / 2 KING	1 JACK / 1 KING	1 JACK / 1 KING	--
C3-#	(3) 2x8	(3) 2x8	1 JACK / 1 KING	1 JACK / 1 KING	1 JACK / 1 KING	--
C4-#	(3) 2x8	(3) 2x10	1 JACK / 2 KING	1 JACK / 1 KING	1 JACK / 1 KING	--
C5-#	(3) 2x10	(3) 2x8	1 JACK / 2 KING	1 JACK / 2 KING	1 JACK / 1 KING	--
C6-#	(3) 2x12	(3) 2x10	2 JACK / 2 KING	2 JACK / 1 KING	1 JACK / 1 KING	--
B7-#	(3) 1 3/4" x 11 1/4" LVL	NA	2 JACK / 3 KING			--
F1-#	5 1/2"x11 1/2" TREATED GLULAM	(3) 2x10	3 JACK / 2 KING	3 JACK / 2 KING	3 KING	--
F2-#	5 1/2"x16" TREATED GLULAM	GABLE END TRUSS	3 JACK / 2 KING	3 JACK / 2 KING	2 KING	--

- NOTES:**
- JAMB STUDS SHALL MATCH SIZE & GRADE OF WALL STUDS U.N.O.
 - WHERE BEAM IS NOTED "UPSET", ALL JAMB STUDS NOTED WILL EXTEND TO DOUBLE TOP PLATE.
 - ALL EXTERIOR LUMBER TO BE TREATED SYP #2 UNLESS NOTED OTHERWISE.
 - PROVIDE SQUASH BLOCKS AT TRUSSES & BLOCKING FRAMING WHERE JAMBS OR STUD PACKS ARE DISCONTINUOUS. QUANTITY TO MATCH JAMB OR STUD PACK ABOVE.
 - PROVIDE 1/2" PLYWOOD SPACER PLATES AT INTERIOR HEADERS CONSTRUCTED WITH 2x LUMBER TO MATCH WIDTH OF WALL.
 - AT CONTRACTOR'S OPTION, PROVIDE PSL IN LIUJE GLULAM OF EQUAL OR GREATER STRENGTH.
 - REFER TO DETAILS ON SHEET S003 FOR MULTI-PLY MEMBER CONNECTION REQUIREMENTS.
 - ATTACH JAMB & KING STUDS TOGETHER PER DETAILS ON SHEET S003.
 - PROVIDE ADTL KING STUD AT ALL PLATE HEIGHT GREATER THAN 9'-1".

MARK	STUD BEARING WALL SCHEDULE			NOTES
	1st FLOOR WALLS (2nd FLOOR FRAMING)	2nd FLOOR WALLS (3rd FLOOR FRAMING)	3rd FLOOR WALLS (ROOF FRAMING)	
1	2x6 @ 16"oc	2x6 @ 16"oc	2x6 @ 16"oc	
2	2x6 @ 16"oc	2x6 @ 16"oc	2x6 @ 16"oc	
3	2x4 @ 16"oc w/ ADTTL 2x4 @ 32"oc OR 2x6 @ 16"oc	2x4 @ 16"oc w/ ADTTL 2x4 @ 32"oc OR 2x6 @ 16"oc	2x4 @ 16"oc OR 2x6 @ 16"oc	
4	2x4 @ 16"oc	2x4 @ 16"oc	2x4 @ 16"oc	
5	(2) 2x4 @ 16"oc OR 2x6 @ 16"oc	2x4 @ 16"oc w/ ADTTL 2x4 @ 32"oc OR 2x6 @ 16"oc	2x4 @ 16"oc OR 2x6 @ 16"oc	RE: WALL TYPE "1" @ EXTERIOR WALLS
6	(2) 2x4 @ 16"oc OR 2x6 @ 16"oc	2x4 @ 16"oc w/ ADTTL 2x4 @ 32"oc OR 2x6 @ 16"oc	2x4 @ 16"oc w/ ADTTL 2x4 @ 32"oc OR 2x6 @ 16"oc	RE: WALL TYPE "1" @ EXTERIOR WALLS
7	2x4 @ 16"oc W/ ADTTL 2x4 @ 32"oc	2x4 @ 16"oc	2x4 @ 16"oc	

- NOTES:**
- PROVIDE 2x BLOCKING @ MID HEIGHT (5'-0" MAX) @ ALL LOAD BEARING WALLS NOT SHEATHED ON BOTH SIDES AND @ ALL 2x8 WALLS
 - WHERE INDICATED, REFER TO WALL TYPE 1 @ EXTERIOR WALLS
 - WHERE STUD SIZE IN ARCHITECTURAL PLAN IS LARGER THAN THAT SHOWN IN SCHEDULE, USE SAME NUMBER OF LARGER STUDS TO THOSE SHOWN IN SCHEDULE (U.N.O.).

MARK	DESCRIPTION
FD-1	1/2" GYPCRETE ATOP 23/32" T&G PLYWOOD SHEATHING. SHEATHING SHALL BE GLUED AND NAILED W/ 8d RING SHANK NAILS OR #10 SCREWS @ 6"o.c. @ EDGES & 12"o.c. AT FIELD.
3" SOD	3" CONC. TOPPING SLAB (AIR ENTRAINED W/ XPEX WATERPROOFING ADMIXTURE) (RE: ARCH.) ATOP WATERPROOFING MEMBRANE (RE: ARCH.) ATOP 23/32" EXT. GRADE PLYWOOD SHEATHING (SLOPE PER ARCH.) REINF. TOPPING SLAB W/ 6x6-W2, 1xW2, 1 WWF.
4" SOG	4" CONC. SLAB, ATOP 15 MIL VAPOR BARRIER ATOP 6" GRANULAR LEVELING COURSE, 18" LVL MATERIAL PER GEOTECH REPORT ATOP PREPARED SUBGRADE IN ACCORDANCE W/ GEOTECH REPORT. REINF. SLAB WITH 6x6-W2, 9xW2, 9 WWF MID-DEPTH.
4" EXT SOG	4" CONC. SLAB (AIR ENTRAINED), ATOP 6" GRANULAR LEVELING COURSE, 18" LVL MATERIAL PER GEOTECH REPORT ATOP PREPARED SUBGRADE IN ACCORDANCE W/ GEOTECH REPORT REINF. SLAB WITH 6x6-W2, 9xW2, 9 WWF MID-DEPTH. T/SLAB EL. = VARIES W/ SLOPE, RE: ARCH/CIVIL DRAWINGS
RD-1	15/32" PLYWOOD SHEATHING (USE 19/32" SHEATHING @ LOW SLOPED ROOFS) ATTACHED WITH 8d NAILS OR #10 SCREWS (SCREWS REQ'D @ TPO/LOW SLOPED ROOFS) @ 6"o.c. AT EDGES & 12"o.c. AT FIELD.

- NOTES:**
- FD = FLOOR DECK TYPE.
 - CD = CONCRETE DECK TYPE.
 - SOG = SLAB-ON-GRADE TYP.
 - RD = ROOF DECK TYP.
 - REFER TO NOTE 10.1 ON SHEET S0.01 FOR FIRE - RETARDANT TREAD SHEATHING REQUIREMENTS.

PLAN NOTES:

- A 18" DEEP PRE-ENGINEERED FLOOR TRUSSES @ 24"oc
- A1 24" DEEP PRE-ENGINEERED FLOOR TRUSSES @ 24"oc
- B1 2x8 TREATED SYP #2 JOISTS @ 16"oc W/ LUS28 TO LEDGER AND RIPPED 2x ON TOP (SLOPE PER ARCH)
- B2 2x12 TREATED SYP #2 JOISTS @ 16"oc W/ LUS210 EA. END (USE (2) 2x12 @ 16"oc W/ LUS210-2 @ SPANS > 11')
- B3 2x12 TREATED SYP #2 JOISTS @ 16"oc W/ LUS210 EA. END
- C PRE-ENGINEERED ROOF TRUSSES @ 24"o.c.
- C1 PRE-ENGINEERED ROOF GIRDER TRUSS W/ DBL STUD BEARING AND LGT TYPE HOLDOWN EA. END
- C2 PRE-ENGINEERED ROOF TRUSS OVERBUILD ATOP 15/32" ROOF DECK (OR BUILD CROSS SLOPE INTO BASE TRUSSES @ CONTRACTORS OPTION)
- D1 5 1/4"x14" TREATED GLULAM. TIE TO FLOOR FRAMING EACH END PER S/S1.00 AT BEAM AT FLOOR LEVELS W/ (4) STUD BEARING & (1) KING EA. SIDE.
- D2 5 1/4"x14" TREATED GLULAM W/ (4) STUD BEARING & (1) KING EA. SIDE
- D3 DOWNSSET (3) 2x12 W/ 3 JACK, 2 KING IN EXT. WALL EA. END
- D4 UPSET (3) 2x12 W/ 3 JACK, 2 KING IN EXT. WALL EA. END. TIE TO FLOOR FRAMING PER S/S1.00 EA. END
- D5 (3) 2x12 W/ 3 JACK, 2 KING IN EXTERIOR WALL EA. END
- D6 (3) 1 3/4" x 14" LVL W/ (4) 2x6 STUD BEARING EACH END (EXTEND TO SLAB ON GRADE) AND (2) HTT4 W/ 5/8"Ø THREADED ROD EACH END (ONE TO BEAM, ONE TO STUD PACK BELOW). PROVIDE ADTTL HTT4s AT FLOOR BELOW.
- D7 UPSET (2) 2x12 HEADER JOIST W/ (3) STUD BRG IN EXT. WALL EA. END
- E1 UPSET (2) 1.75x18" LVL w/ (3) 2x6 BRG OR HGUS414 HANGER
- E2 UPSET (2) 1.75x18" LVL w/ (3) STUD BRG EA END
- E3 UPSET (2) 1.75x18" LVL w/ (4) 2x6 BRG EA END
- E4 WF BEAM PER PLAN W/ NAILER PER 7/S3.10 AND CONNECTION TO COL PER 8/S3.10 EA. END
- E5 HSS4x4x1/4 STEEL COL w/ 1/2"x10"x10" BASE PL W/ (4) 3/4"Ø EPOXY ANCHORS (8" EMBED) ATOP 1.5" GROUT. SET TOP OF FOOTING AT 12" BELOW T/SLAB

NAILING SCHEDULE (REFER TO NOTES #1 and #2)		
CONNECTION	ATTACHMENTS	(REF NOTE #3 and #4)
JOIST TO SILL OR GIRDER	3- 3" x 0.131" NAILS-TOENAIL	3-8d NAILS-TOENAIL
BRIDGING TO JOIST	2- 3" x 0.131" NAILS-TOENAIL EACH END	2-8d NAILS-TOENAIL EACH END
SOLE PLATE TO JOIST OR BLOCKING	3" x 0.131" NAILS AT 8"o.c.- TYPICAL FACE NAIL 4-3" x 0.131" NAILS AT 6"o.c. BRACED WALL PANELS	16d BOX NAILS AT 16"o.c. MAX. FACE NAILING 3-16d BOX NAILS AT 16"o.c. BRACED WALL PANEL
TOP PLATE TO STUD	4- 3" x 0.131" NAILS-END NAIL	2-16d NAILS-END NAIL
STUD TO SOLE PLATE	4- 3" x 0.131" NAILS-TOENAIL OR 3- 3" x 0.131" NAILS-END NAIL	4-8d NAILS-TOENAIL OR 2-16d NAILS-END NAIL
DOUBLE STUDS	3" x 0.131" NAILS AT 8"o.c.-FACE NAIL	16d BOX NAILS AT 24"o.c. MAX. FACE NAIL
DOUBLED TOP PLATES	3" x 0.131" NAILS AT 12"o.c.-FACE NAIL	16d BOX NAILS AT 16"o.c. MAX. FACE NAIL
DOUBLE TOP PLATE LAPS AND INTERSECTIONS	12-3" x 0.131" NAILS	8-16d NAILS
BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	3-3" x 0.131" NAILS -TOENAIL	3-8d NAILS-TOENAIL
RIM JOIST TO TOP PLATE	3" x 0.131" NAILS AT 6"o.c.-TOENAIL	8d NAILS AT 6"o.c. MAX.-TOENAIL
TOP PLATE LAPS AND INTERSECTIONS	3- 3" x 0.131" NAILS-FACE NAIL	2-16d NAILS-FACE NAIL
CONTINUOUS HEADER, TWO PIECES	3" x 0.131" NAILS AT 10"o.c. ALONG EACH EDGE	16d NAILS AT 16"o.c. MAX. ALONG EACH EDGE-TOENAIL
CEILING JOISTS TO PLATE	5- 3" x 0.131" NAILS-TOENAIL	3-8d NAILS-TOENAIL
CONTINUOUS HEADER TO STUD	4- 3" x 0.131" NAILS-TOENAIL	4-8d NAILS-TOENAIL
CEILING JOISTS, LAPS OVER PARTITIONS	4- 3" x 0.131" NAILS-FACE NAIL	3-16d NAILS-FACE NAIL
CEILING JOISTS TO PARALLEL RAFTERS	4- 3" x 0.131" NAILS-FACE NAIL	3-16d NAILS-FACE NAIL
RAFTER TO PLATE	3- 3" x 0.131" NAILS-TOENAIL	3-8d NAILS-TOENAIL
1" BRACE TO EACH STUD AND PLATE	2- 3" x 0.131" NAILS-FACE NAIL	2-8d NAILS-FACE NAIL
BUILT-UP CORNER AND MULTIPLE STUDS	3" x 0.131" NAILS AT 16"o.c. (RE. 3/S0.03)	16d NAILS AT 24"o.c. MAX. (RE. 3/S0.03)
BUILT-UP GIRDER AND BEAMS	RE. 5 AND 6 ON SHEET S0.03	RE. 5 AND 6 ON SHEET S0.03
BUILT-UP LAMINATED VENEER LUMBER BEAMS	3" x 0.131" NAILS AT 6"o.c. TOP AND BOTTOM ALONG EDGE.	16d NAILS AT 12"o.c. TOP AND BOTTOM ALONG EDGE
2" PLANKING	4- 3" x 0.131" NAILS AT EACH SUPPORT	16d NAILS AT EACH SUPPORT

- NOTES:**
- ALL NAILS SHALL BE AS NOTED UNLESS OTHERWISE SPECIFIED ON STRUCTURAL DRAWINGS OR ALTERNATE PROVIDED BY ENGINEER IN WRITING.
 - CONDITIONS NOT SPECIFIED SHALL BE IN ACCORDANCE WITH CURRENT INTERNATIONAL BUILDING CODE.
 - NAILING DESIGNATION:
 - ALL NAILS NOTES AS 8d, 10d, 16d, ETC. SHALL BE COMMON NAILS UNLESS NOTED BOX.

REBAR DEVELOPMENT LENGTH AND LAP SPLICE SCHEDULE				
CONCRETE STRENGTH = 3500 psi (Min.)				
CASE BAR SIZE	DEVELOPMENT LENGTH OR CLASS A LAP		CLASS B LAP	
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
#3	20	16	26	20
#4	27	21	35	27
#5	33	26	43	33
#6	40	31	52	40
#7	58	45	75	58
#8	66	51	86	66
#9	75	58	97	75
#10	84	65	109	84
#11	93	72	121	93

- NOTES:**
- UNLESS SPECIFICALLY INDICATED OTHERWISE, USE THE MINIMUM LENGTH FOR A CLASS B LAP SPLICE OR THE MINIMUM DEVELOPMENT LENGTH INDICATED IN THE TABLES ABOVE MULTIPLIED BY THE APPLICABLE FACTOR(S) LISTED BELOW.
 - WHERE THE CLEAR SPACING BETWEEN BARS LAP SPLICED OR EMBEDDED AT ANY SECTION IS LESS THAN 2 BAR DIAMETERS, OR WHERE THE BAR COVER IS LESS THAN OR EQUAL TO THE BAR DIAMETER, INCREASE THE INDICATED BAR SPLICE OR DEVELOPMENT LENGTH BY 50%.
 - TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.
 - MECHANICAL COUPLERS MAY BE SUBSTITUTED FOR TENSION LAP SPLICED BARS PROVIDED THAT THEY MEET THE REQUIREMENTS OF ACI 318-11, 12.14.
 - AT LOCATIONS WHERE REINFORCING WITHIN A STRUCTURAL ELEMENT WILL BE SPLICED, ALTERNATING SPLICES SHALL BE STAGGERED A MINIMUM OF THE CLASS B SPLICE LENGTH UNLESS INDICATED OTHERWISE.

PLAN SYMBOLS LEGEND	
MARK	DESCRIPTION
TYPE 100'-0"	SLAB ON GRADE TYPE AND ELEVATION. REFER TO PLAN OR DECK SCHEDULE FOR DESCRIPTION.
←	SPAN DIRECTION DECK. REFER TO PLAN OR DECK SCHEDULE FOR DECK TYPE
A#-#	BEAM OR HEADER PER SCHEDULE ON S0.02
UA#-#	UPSET BEAM OR HEADER PER SCHEDULE ON S0.02
#	BEARING WALL TYPE PER SCHEDULE ON S0.02
X	HOLDOWN TYPE PER SCHEDULE ON S0.08
SW-#	SHEAR WALL TYPE PER SCHEDULE ON S0.08
X	PLAN NOTE PER SCHEDULE ON S0.02
#	FOOTING TYPE PER SCHEDULE ON S0.02

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 • 03/22/24 50% CD Set
 • 04/19/24 90% CD Set

REVISIONS

JOB NO. 740623 DATE 04.19.24
 DRAWN BY BDC
 CD SET/PERMIT

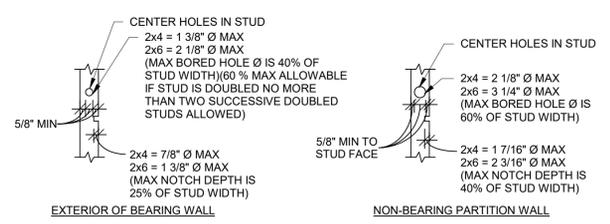
SHEET NAME TYPICAL WOOD DETAILS & SCHEDULES
 SHEET NO.

S0.02



BUILT-UP STUD PACK COLUMN ATTACHMENT SCHEDULE		
NUMBER OF PLYS	ATTACHMENT AT COLUMN OR JAMB STUD PACKS SUPPORTING BEAMS AND HEADERS	ATTACHMENT AT STUD PACKS SUPPORTING TRUSSES
2-PLY MEMBERS	8d NAILS AT 12"oc, 1" FROM EDGE, w/ OPPOSITE EDGE NAILED FROM OPPOSITE SIDE OFFSET 6", @ 12"oc w/ FIRST NAIL 2" FROM EA. END	8d NAILS AT 12"oc, 1" FROM EDGE, w/ OPPOSITE EDGE NAILED FROM OPPOSITE SIDE OFFSET 6", @ 12"oc w/ FIRST NAIL 2" FROM EA. END
3-PLY MEMBERS	20d NAILS AT 16"oc, 1 1/2" FROM EDGE w/ OPPOSITE EDGE NAILED FROM OPPOSITE SIDE OFFSET 8", @ 16"oc w/ FIRST NAIL 4" FROM EA. END	8d NAILS AT 12"oc, 1" FROM EDGE, w/ OPPOSITE EDGE NAILED FROM OPPOSITE SIDE OFFSET 6", @ 12"oc w/ FIRST NAIL 2" FROM EA. END
4-PLY MEMBERS	SDWS22500 SCREWS AT 16"oc, 1 1/2" FROM EDGE w/ OPPOSITE EDGE SCREWED FROM OPPOSITE SIDE OFFSET 8", @ 16"oc w/ FIRST SCREW 4" FROM EA. END	3 PLYS ATTACHED PER 3-PLY ATTACHMENT w/ 4th PLY ATTACHED w/ 8d NAILS AT 12"oc IN 2 ROWS, 1 1/2" FROM EDGE, OFFSET ROW 6"
5-PLY MEMBERS	SDWS22600 SCREWS AT 12"oc, 1 1/2" FROM EDGE w/ OPPOSITE EDGE SCREWED FROM OPPOSITE SIDE OFFSET 6", @ 12"oc w/ FIRST SCREW 4" FROM EA. END	3 PLYS ATTACHED PER 3-PLY ATTACHMENT w/ 4th & 5th PLY ATTACHED w/ 8d NAILS AT 12"oc IN 2 ROWS, 1 1/2" FROM EDGE, OFFSET ROW 6"
6-PLY MEMBERS	SDWS22800 SCREWS AT 12"oc, 1 1/2" FROM EDGE w/ OPPOSITE EDGE SCREWED FROM OPPOSITE SIDE OFFSET 6", @ 12"oc w/ FIRST SCREW 4" FROM EA. END	3 PLYS ATTACHED PER 3-PLY ATTACHMENT w/ 4th PLY ATTACHED w/ 8d NAILS AT 12"oc IN 2 ROWS, 1 1/2" FROM EDGE, OFFSET ROW 6" w/ FIRST SCREW 4" FROM EA. END

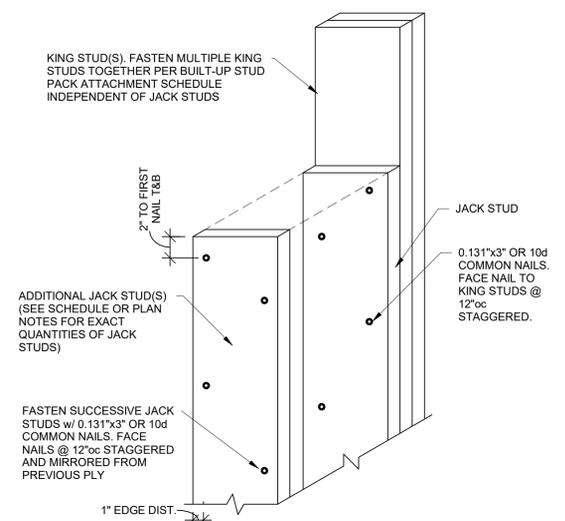
- NOTES:
- ALL BUILT-UP STUD PACKS MUST ALIGN FLOOR-TO-FLOOR WITH SOLID BLOCKING (SQUASH BLOCKS) AT FLOOR CAVITIES.
 - EXTEND ALL STUD PACKS TO LOWEST LEVEL UNLESS NOTED OTHERWISE.
 - ALL NAILS ARE COMMON NAILS UNLESS NOTED OTHERWISE.



- TYPICAL NOTES FOR BEARING WALLS**
- Holes shall not be located in the same stud as a cut or notch.
 - Contact architect prior to cutting or notching to verify size and location if hole is greater than 20% stud width or notches greater than 10% stud width are required in two or more consecutive studs.
 - Notches or holes not permitted in jamb, stud packs and at ends of shearwalls.
 - Stud shoes are note an acceptable remediation of over-notched or over-cut studs without prior approval by EOR.
 - Holes may be vertically elongated to a maximum dimension of 6" to accommodate building shrinkage.

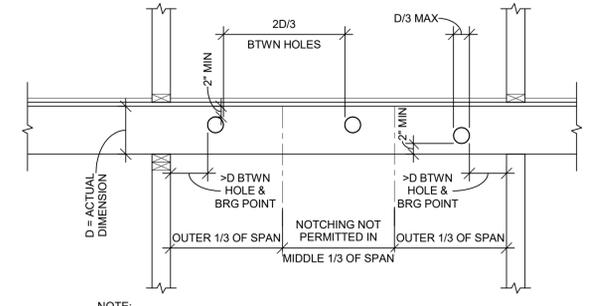
ALLOWABLE HOLES/NOTCHES IN WALL STUDS

1 DETAIL
3/4" = 1'-0"



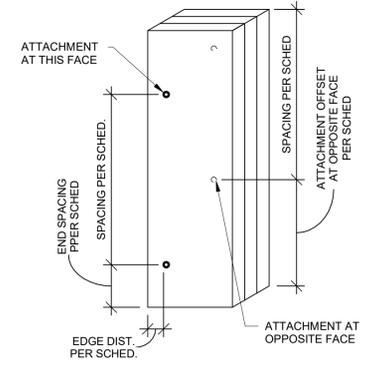
TYPICAL JACK STUD ATTACHMENT

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



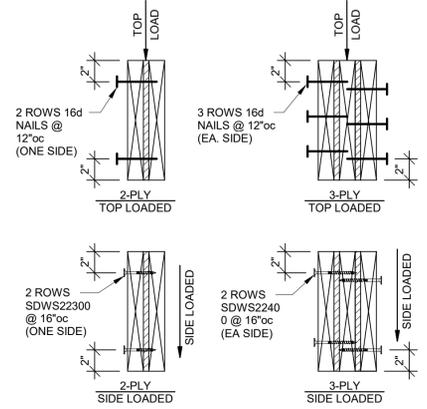
- NOTE:
- CONTACT ARCHITECT PRIOR TO CUTTING JOISTS TO VERIFY SIZE AND LOCATION
 - DETAIL APPLIES TO 2x FRAMING ONLY. REFER TO ENGINEERED OR COMPOSITE LUMBER MANUFACTURER'S RECOMMENDATIONS AT PSL's, LVL's, LSL's & GLULAM's

2 DETAIL
3/4" = 1'-0"



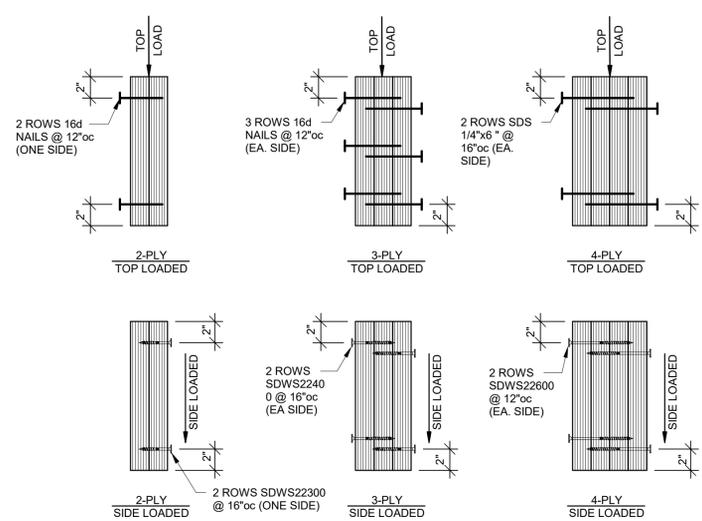
TYPICAL BUILT-UP STUD PACK CONNECTION

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



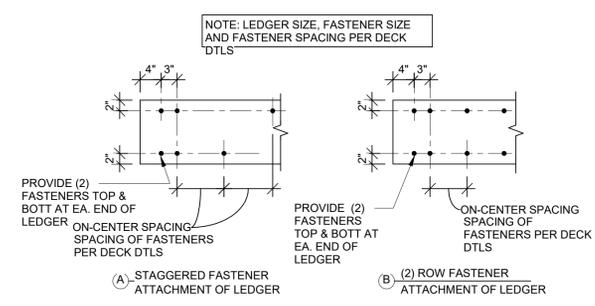
TYPICAL MULTI-PLY HEADER CONNECTION

6 DETAIL
1 1/2" = 1'-0"



TYPICAL MULTI-PLY BEAM CONNECTION

5 DETAIL
1 1/2" = 1'-0"



TYPICAL LEDGER CONNECTION

B DETAIL
3/4" = 1'-0"

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• 04/19/24 90% CD Set

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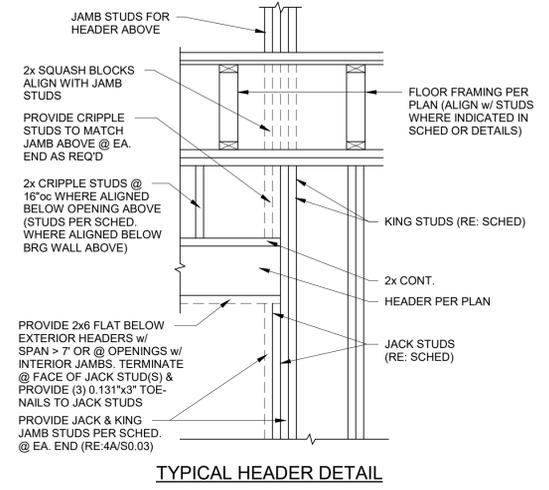
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CD SET/PERMIT

SHEET NAME TYPICAL WOOD DETAILS

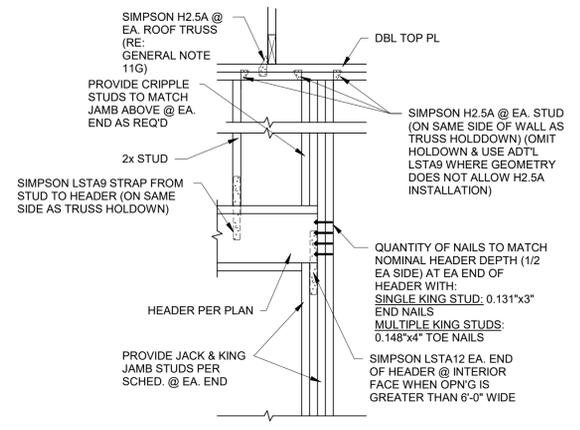
SHEET NO. **S0.03**



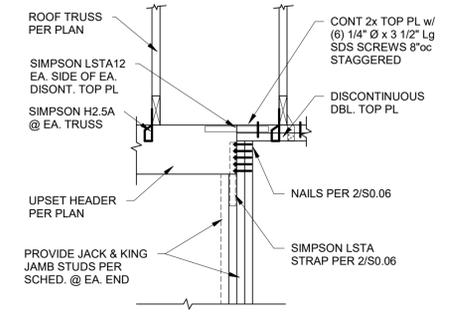
ARCH D 24' x 36'



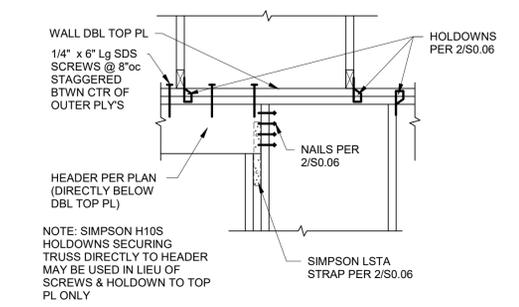
1 SECTION
3/4" = 1'-0"



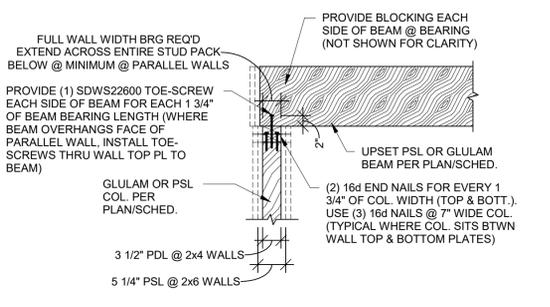
2 SECTION
3/4" = 1'-0"



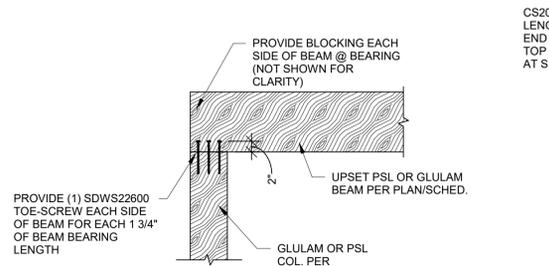
3 SECTION
3/4" = 1'-0"



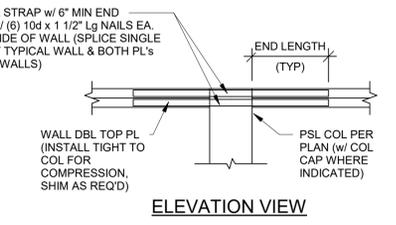
4 SECTION
3/4" = 1'-0"



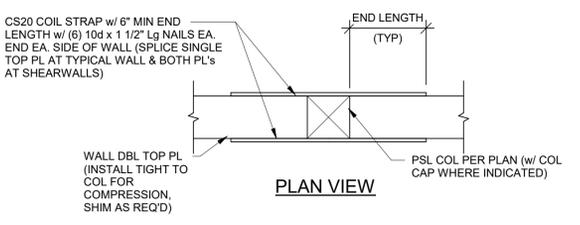
5 SECTION
3/4" = 1'-0"



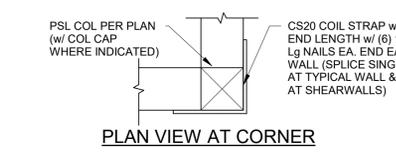
5A SECTION
3/4" = 1'-0"



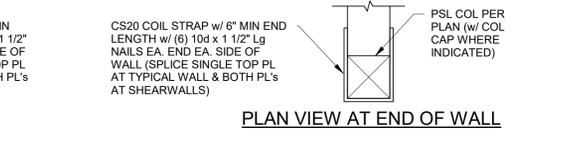
ELEVATION VIEW



PLAN VIEW



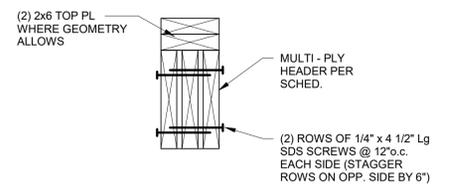
PLAN VIEW AT CORNER



PLAN VIEW AT END OF WALL

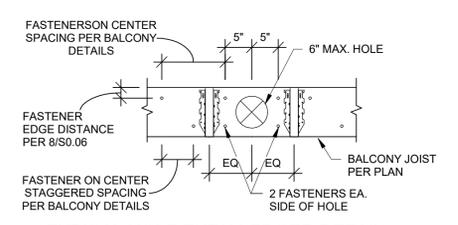
TYPICAL STRAPS @ DISCONTINUOUS TOP PL @ COL

6 SECTION
3/4" = 1'-0"



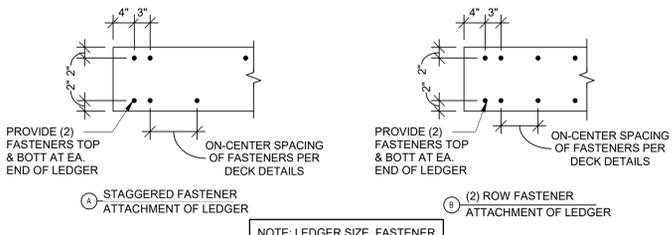
TYPICAL MULTI-PLY EXTERIOR ROOF HEADER WHERE GEOMETRY DOES NOT ALLOW 2x PL BELOW HEADER

7 SECTION
1 1/2" = 1'-0"



TYPICAL HOLE THRU LEDGER DETAIL

9 SECTION
3/4" = 1'-0"



TYPICAL LEDGER CONNECTION

8 SECTION
3/4" = 1'-0"

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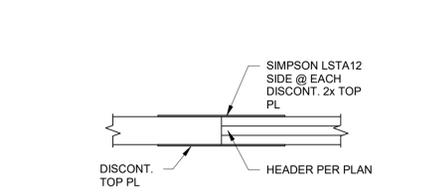
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DRAWN BY **BDC**
CD SET/PERMIT

SHEET NAME
TYPICAL WOOD DETAILS

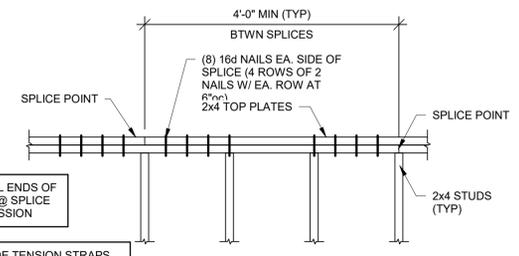
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S0.04

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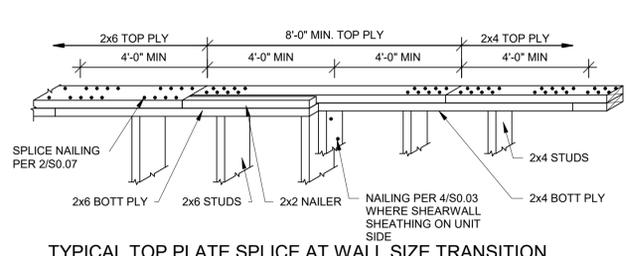


1 SECTION
3/4" = 1'-0"

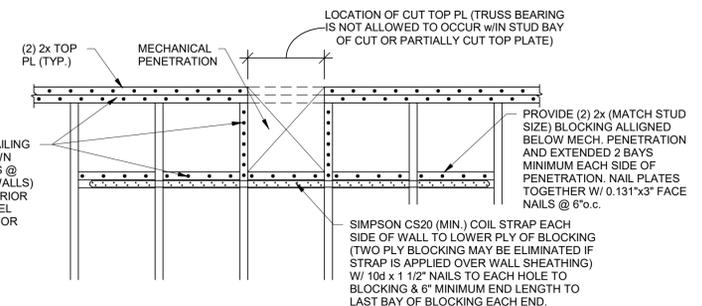
NOTE: INSTALL ENDS OF PLATE TIGHT @ SPLICE FOR COMPRESSION
NOTE: PROVIDE TENSION STRAPS PER 1/S0.05 @ LOCATIONS WHERE TOP PLATE SPLICE IS NOT STAGGERED 4'-0" MIN. AND WHERE PLUMBING/ELECTRICAL BORES OR NOTCHES TOP PLATE OVER THE ALLOWABLE DIMENSIONS SHOWN IN DETAIL 3/S0.07.



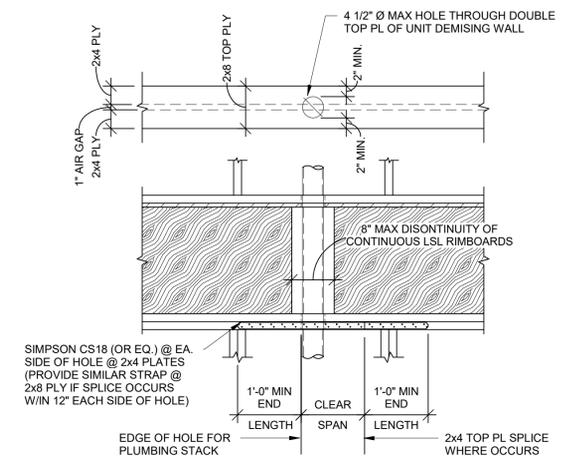
2 SECTION
3/4" = 1'-0"



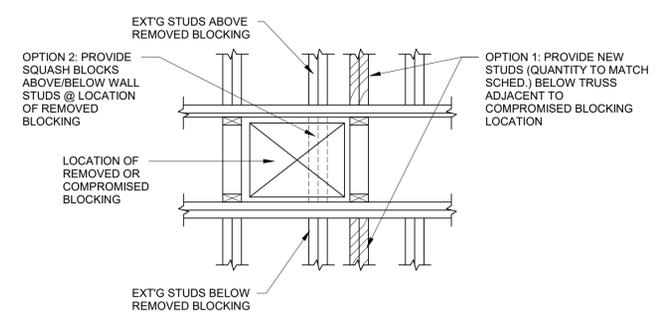
2A SECTION
NOT TO SCALE



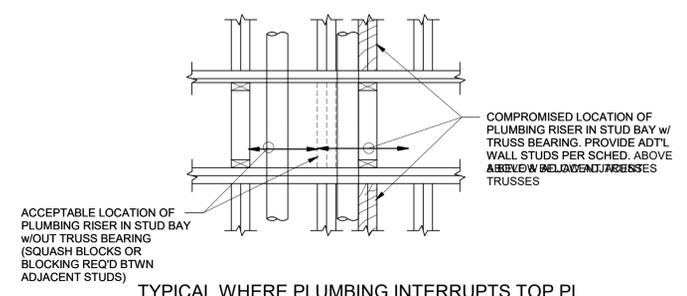
2B SECTION
NOT TO SCALE



3 SECTION
3/4" = 1'-0"



4 SECTION
3/4" = 1'-0"



5 SECTION
3/4" = 1'-0"

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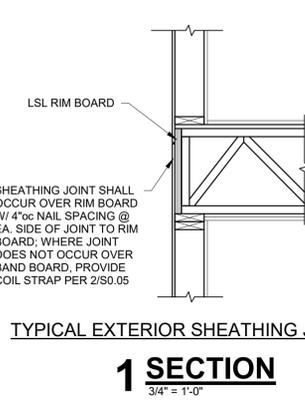
DRAWING RELEASE LOG
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• 04/19/24 90% CD Set

REVISIONS

JOB NO. **740623** DATE **04.19.24**
DRAWN BY **BDC**
CD SET/PERMIT

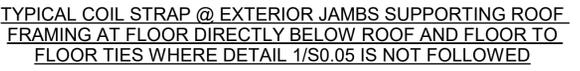
SHEET NAME
TYPICAL WOOD DETAILS

SHEET NO.
S0.05



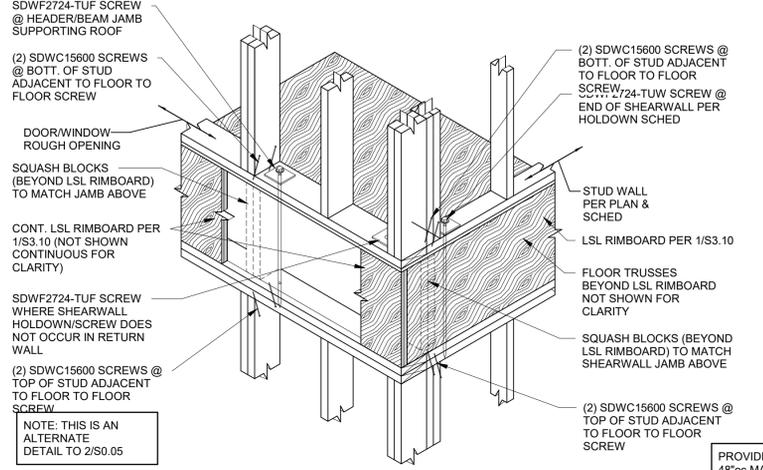
NOTE: STRAPS @ CORNERS & RE-ENTRANT CORNERS REQ'D ONLY WHERE EXTERIOR SHEATHING JOINTS DO NOT OCCUR OVER CONTINUOUS LSL RIM BOARD. STRAPS SHALL BE INSTALLED TIGHT & W/OUT SLACK. DO NOT INSTALL STRAPS AT A TIME WHEN SUBFLOOR OR WALL PALTES ARE WET/DAMP DUE TO RAIN AS TEMPORARY SWELLING MAY CAUSE SLACK IN STRAPS AFTER DRYING. STRAPS MAY BE INSTALLED ON INTERIOR OF BLDG WHERE BULGING OF STRAP WOULD NEGATIVELY IMPACT EXTERIOR FINISH (STUCCO, SIDING, ETC.)

1 SECTION
3/4" = 1'-0"



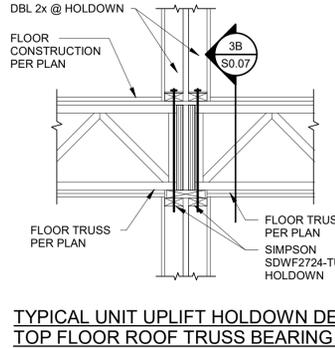
NOTE: USE DETAIL 2A/S0.05 IN LIEU OF STRAPS @ CONTRACTORS OPTION

2 SECTION
3/4" = 1'-0"



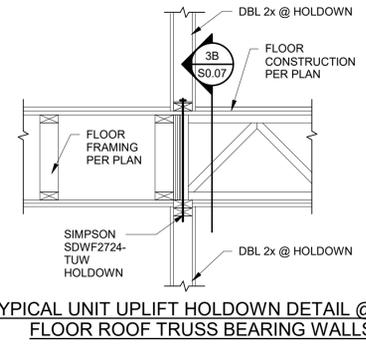
TYPICAL FLOOR-TO-FLOOR SCREW @ EXTERIOR JAMBS SUPPORTING ROOF FRAMING AT FLOOR DIRECTLY BELOW ROOF AND FLOOR TO FLOOR TIES WHERE DETAIL 1/S0.05 IS NOT FOLLOWED

2A SECTION
3/4" = 1'-0"



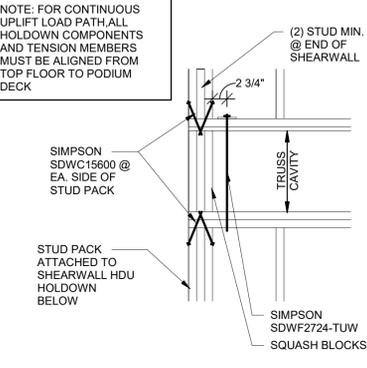
TYPICAL UNIT UPLIFT HOLDOWN DETAIL @ TOP FLOOR ROOF TRUSS BEARING WALLS

3 SECTION
3/4" = 1'-0"



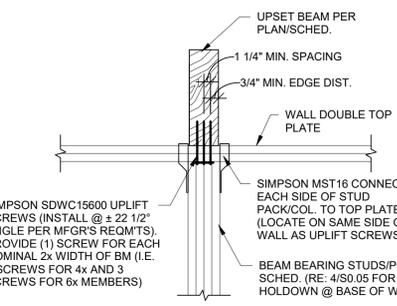
TYPICAL UNIT UPLIFT HOLDOWN DETAIL @ TOP FLOOR ROOF TRUSS BEARING WALLS

3A SECTION
3/4" = 1'-0"

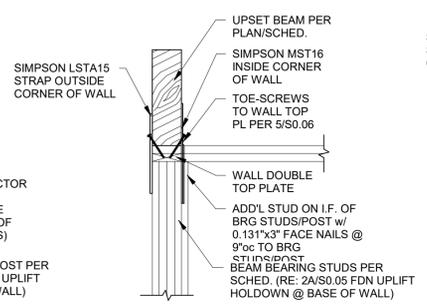


ALTERNATE FLOOR TO FLOOR TIE-DOWN AT END OF WALL

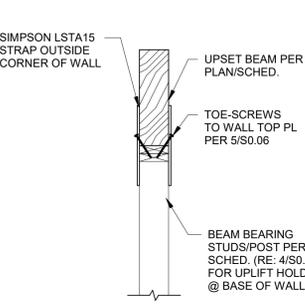
5 SECTION
3/4" = 1'-0"



TYPICAL AT PERPENDICULAR WALL



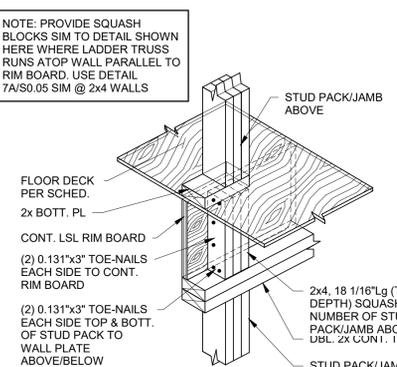
TYPICAL AT WALL CORNERS



TYPICAL AT PARALLEL WALL

TYPICAL UPSET WOOD BEAM UPLIFT HOLDOWN AT BEAMS SUPPORTING ROOF TRUSS BEARING WALLS OR WHERE INDICATED

6 SECTION
3/4" = 1'-0"



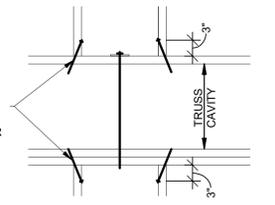
TYPICAL SQUASH BLOCK DETAIL AT CONTINUOUS RIM BOARD

7 SECTION
3/4" = 1'-0"



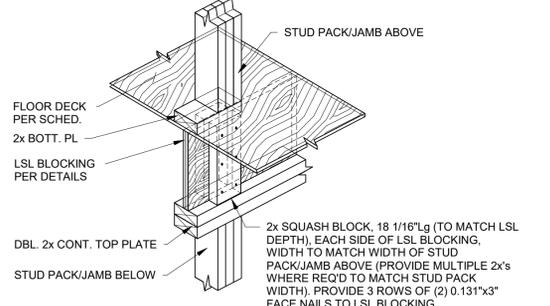
TYP SIDE VIEW AT DBL STUD SCREWS AT HOLDOWN

3B DETAIL
3/4" = 1'-0"



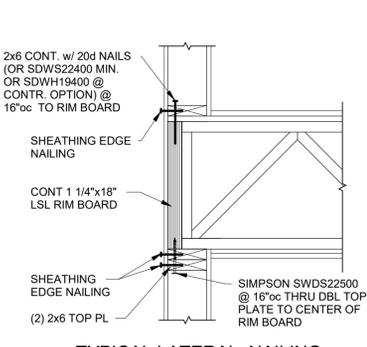
TYPICAL GIRDER TRUSS UPLIFT HOLDOWN DETAIL @ TOP FLOOR

4 SECTION
3/4" = 1'-0"



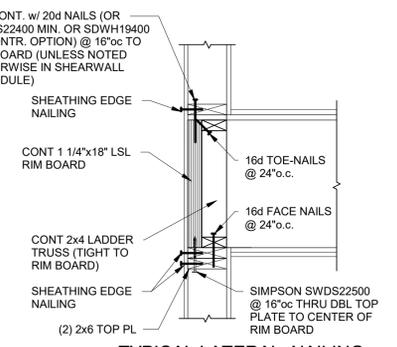
TYPICAL SQUASH BLOCK DETAIL AT LSL BLOCKING

7A SECTION
3/4" = 1'-0"



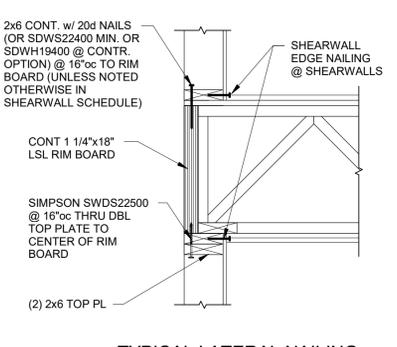
TYPICAL LATERAL NAILING AT EXTERIOR WALL WITH TRUSS BEARING

15 SECTION
1" = 1'-0"



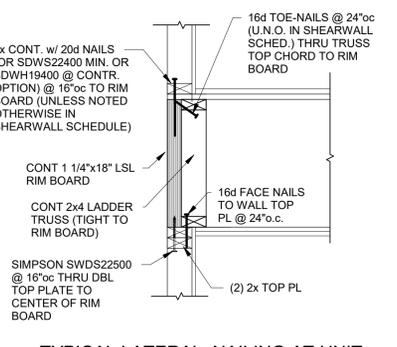
TYPICAL LATERAL NAILING AT EXTERIOR WALL PARALLEL TO TRUSSES

15A SECTION
1" = 1'-0"



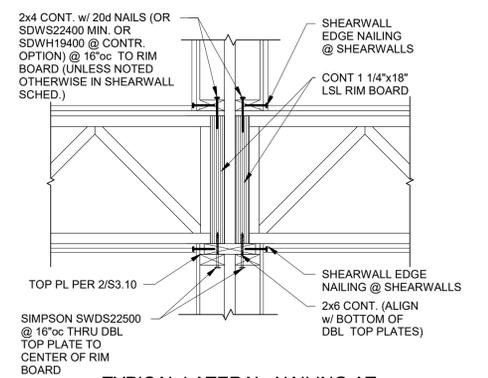
TYPICAL LATERAL NAILING AT ONE SIDED WALL WITH TRUSS BEARING

15B SECTION
1" = 1'-0"



TYPICAL LATERAL NAILING AT UNIT DEMISING WALL OR ONE SIDED WALL PARALLEL TO TRUSSES

15C SECTION
1" = 1'-0"



TYPICAL LATERAL NAILING AT DOUBLE UNIT DEMISING WALLS WITH TRUSS BEARING

15D SECTION
1" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
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NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
• 03/23/24 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS

JOB NO. 740623 DATE 04.19.24
DRAWN BY BDC
CD SET/PERMIT

SHEET NAME TYPICAL WOOD DETAILS

SHEET NO. **S0.07**

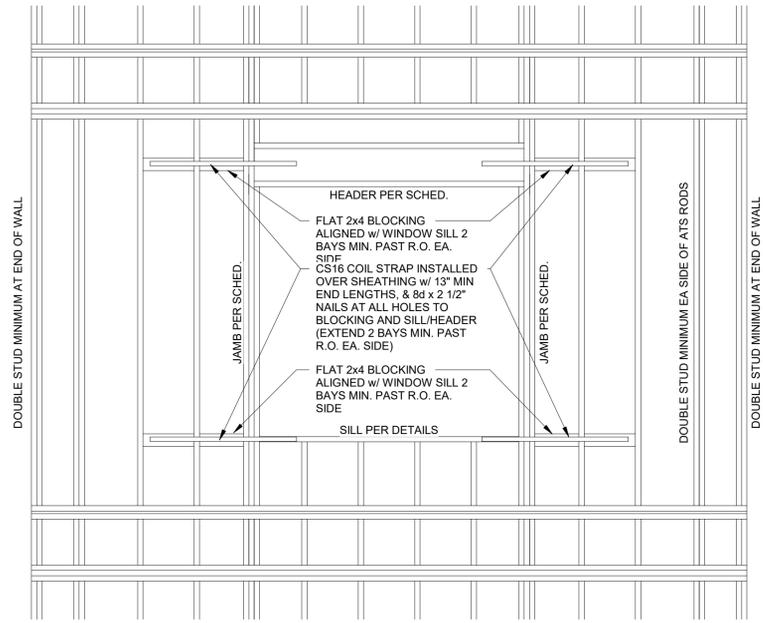


SHEARWALL SCHEDULE					
SHEARWALL TYPE		FLOOR			NOTES
		1st FLR WALLS	2nd FLR WALLS	3rd FLR WALLS	
SW-1	MATERIAL THICKNESS	7/16" APA RATED SHEATHING ONE SIDE, BLOCKED	7/16" APA RATED SHEATHING ONE SIDE, BLOCKED	7/16" APA RATED SHEATHING ONE SIDE, BLOCKED	--
	NAIL SIZE & SPACING	8d NAILS @ 6/12	8d NAILS @ 6/12	8d NAILS @ 6/12	
	SHEAR FORCE	260 plf	260 plf	260 plf	
SW-2	MATERIAL THICKNESS	(2) LAYERS 5/8" GYPSUM, ONE SIDE w/ EDGES BLOCKED.	5/8" GYPSUM, BLOCKED EDGES	5/8" GYPSUM, UNBLOCKED EDGES	- NAILING @ (2) LAYERS OF GYP: BASE PLY: 6d COOLER NAILS @ 9/9 FACE PLY: 8d COOLER NAILS @ 7/7
	NAIL SIZE & SPACING	RE: SW2 NOTES	6d NAILS @ 4/4	6d NAILS @ 7/7	
	SHEAR FORCE	250 plf	175 plf	115 plf	
SW-3	MATERIAL THICKNESS	5/8" GYPSUM, EACH SIDE, UNBLOCKED EDGES	5/8" GYPSUM, UNBLOCKED EDGES	5/8" GYPSUM, UNBLOCKED EDGES	--
	NAIL SIZE & SPACING	6d NAILS @ 7/7	6d NAILS @ 4/4	6d NAILS @ 7/7	
	SHEAR FORCE	230 plf	145 plf	115 plf	
SW-4	MATERIAL THICKNESS	5/8" GYPSUM, BLOCKED EDGES	5/8" GYPSUM, UNBLOCKED EDGES	5/8" GYPSUM, UNBLOCKED EDGES	RE: DETAIL 2/S0.06 (@ WINDOW/DOOR OPENINGS)
	NAIL SIZE & SPACING	6d NAILS 4/4	6d NAILS 4/4	6d NAILS 7/7	
	SHEAR FORCE	175 plf	145 plf	115 plf	
SW-5	MATERIAL THICKNESS	7/16" OSB SHEATHING ONE SIDE w/ EDGES BLOCKED	7/16" OSB SHEATHING ONE SIDE w/ EDGES BLOCKED	7/16" OSB SHEATHING ONE SIDE w/ EDGES BLOCKED	FORCE TRANSFER SHEARWALL PER DETAIL 1/S0.08
	NAIL SIZE & SPACING	8d NAILS 6/12	8d NAILS 6/12	8d NAILS 6/12	
	SHEAR FORCE	260 plf	260 plf	260 plf	

- NOTES:
- PROVIDE HOLD-DOWNS PER PLAN & SCHEDULE.
 - NAIL SPACING SHOWN AS (#/#) INDICATES FASTENERS SPACING IN INCHES AT THE EDGES/FIELD WHERE FIELD IS THE INTERMEDIATE MEMBERS.
 - TYPICAL SILL PLATE TO WOOD SHALL BE 20d NAILS (OR SDWS22400 SCREWS OR SDWH19400 SCREWS) AT 16"oc UNLESS NOTED OTHERWISE IN SCHEDULE.
 - TYPICAL SILL PLATE TO CONCRETE SHALL BE 1/2"Ø ANCHORS PER 3/S3.01: AT 2x4 WALLS SPACE AT 24"oc MAX WITH 1/4"x21/2"x21/2" PLATE WASHER OR SIMPSON BPS 1/2 - 3 @ CONTRACTORS OPTION AT 2x6 WALLS SPACE AT 24"oc MAX WITH 1/4"x21/2"x41/2" PLATE WASHER OR SIMPSON BPS 1/2 - 6 @ CONTRACTORS OPTION PLATE WASHERS TO MAINTAIN MAX OF 1/2" BETWEEN EDGE OF SILL PLATE AND EDGE OF PLATE WASHER
 - SHEARWALL SHEATHING CALLED OUT AT CORRIDOR WALLS SHALL BE LOCATED AT UNIT SIDE OF WALL
 - DESIGN SHEAR TRUSSES FOR FORCES INDICATED IN SCHEDULE.
 - NAILS @ WOOD STRUCTURAL PANEL SHEAR WALLS SHALL BE GALVANIZED COMMON OF TYPE INDICATED IN SCHED.
 - EXTERIOR BUILDING SHEATHING SHALL BE 7/16" OSB (OR EQUAL) BLOCKED w/ 8d NAILS @ 6/12 NAILING PATTERN. INSTALL SHEATHING VERTICALLY AND SPLICE PANELS @ FLOOR PER 1/S0.07 (PROVIDE STRAPS PER 2/S0.07 WHERE SHEATHING JOINTS DO NOT CONFORM TO 1/S0.07)
 - REFER TO DETAILS 2B/S0.05 AND 2/S0.08 @ OPENINGS THRU SHEARWALLS.
 - NAILING SHALL BE TO ALL STUDS, TOP & BOTTOM PLATES, AND BLOCKING WHERE INDICATED. NAILS FOR GYPSUM SHEATHING ARE COOLER NAILS AND NAILS FOR OSB SHEATHING ARE COMMON NAILS. GYPSUM CAN BE ATTACHED WITH DRYWALL SCREWS AT SAME SPACING INDICATED FOR NAILS.
 - WHERE THE ENDS OF PERPENDICULAR SHEAR WALLS INTERSECT AND ONLY ON HOLD-DOWN SHOWN ON PLAN, FASTEN ALL STUDS TOGETHER PER SCHEDULE AND USE LARGER OF THE TWO HOLD-DOWNS SHOWN IN THE SHEARWALL SCHEDULE.
 - PROVIDE 2 WALL STUDS AT EACH HOLD-DOWN UNLESS NOTED OTHERWISE IN SCHEDULE.
 - OSB @ INTERIOR WALL SHALL BE IN ADDITION TO 5/8" GYP SHEATHING, U.N.O. BY ARCH.

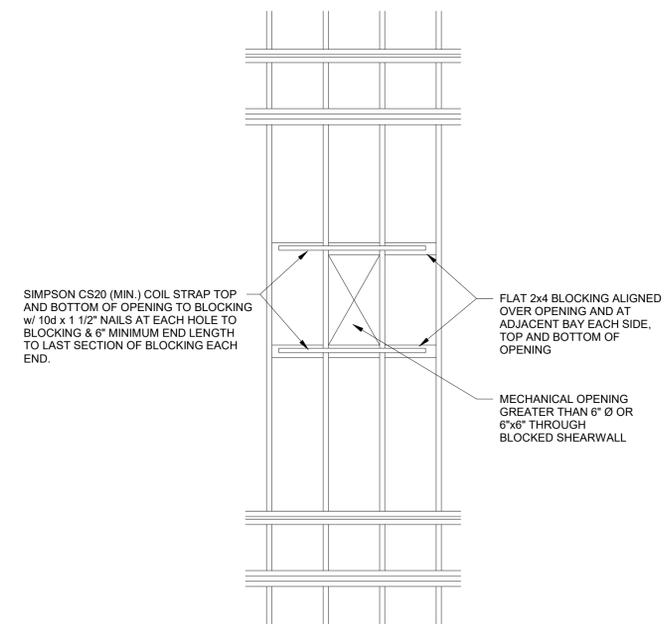
HOLDOWN SCHEDULE			
MARK	FLOOR LEVEL (w/ APPLICABLE HOLDOWN TYPE PER FLOOR)		
	1st FLOOR	2nd FLOOR	3rd FLOOR
(A)	HDU2	HDU2	HDU2
(B)	HDU4	HDU2	HDU2
(C)	HDU5	HDU2	HDU2

- NOTES:
- REFER TO SECTION DETAILS ON S0.09 FOR TYPICAL HOLDOWN DETAILS.
 - MINIMUM STUD PACKS AT HOLD-DOWNS SHALL BE AS FOLLOWS:
 - A. HDU2 (2) 2x6 OR (2) 2x6 OR (2) 2x4
 - B. HDU4 (2) 2x6 OR (2) 2x6 OR (3) 2x4
 - C. HDU5 (3) 2x6 OR (3) 2x6 OR (4) 2x4
 - SINGLE HOLD-DOWNS INDICATED AT ENDS OF DOUBLE SHEAR WALLS SHALL BE LOCATED IN THE CENTER OF THE DOUBLE WALLS AND ATTACHED TO 2x8 STUD PACKS FOR ATTACHMENT TO SHEARWALL SHEATHING BOTH SIDES OF WALLS (RE: 9/S0.09)
 - PROVIDE 5/8" DIAMETER CAST IN PLACE ANCHOR PAB STYLE ANCHOR BOLT WITH 8" MIN. EMBED INTO SLAB ON GRADE AT EACH HOLD-DOWN. AT CONTRACTORS OPTION, 5/8" DIAMETER THREADED ROD MAY BE DRILLED AND EPOXIED WITH 9" MINIMUM EMBED (6" AT HDU2's) OR 1/2" DIAMETER TITEN HD SCREW ANCHORS WITH THE SAME EMBEDMENT AT CONTRACTORS OPTION. ROD SHALL BE CLEAN OF GREASE. ATTACHMENT TO CONCRETE REQUIRES FULL TIME SPECIAL INSPECTION.
 - PROVIDE 5/8" DIAMETER THREADED ROD (A36) THROUGH BOLT AT EACH PAIR OF HOLD-DOWNS AT EACH FLOOR. RE-TIGHTEN THROUGH BOLTS PRIOR TO SHEATHING WALLS TO TAKE UP ANY SHRINKAGE OR LOOSENESS IN RODS.
 - HOLE THRU TOP AND SILL PLATES SHALL BE ROD DIAMETER PLUS 1/4".



TYPICAL "SW5" FORCE TRANSFER SHEARWALL ELEVATION @ WINDOW OPENINGS

1 ELEVATION
1/2" = 1'-0"

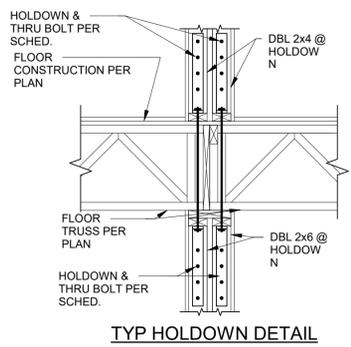


TYPICAL OPENING THROUGH BLOCKED SHEARWALL

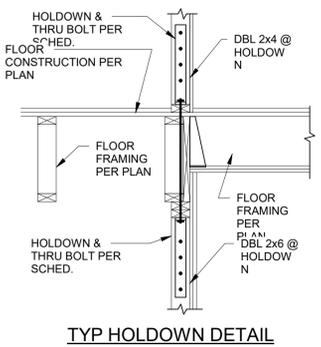
2 ELEVATION
1/2" = 1'-0"



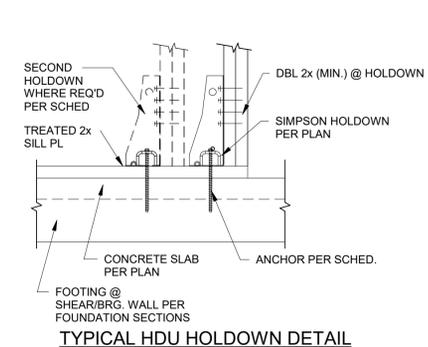
ARCH D 24' x 36'



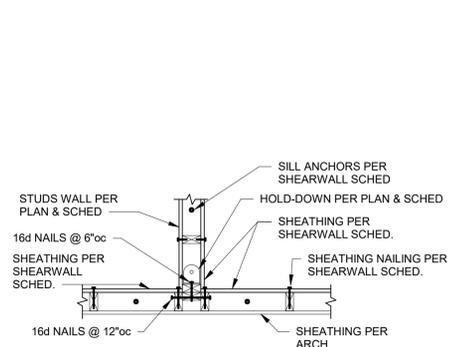
1 DETAIL
3/4" = 1'-0"



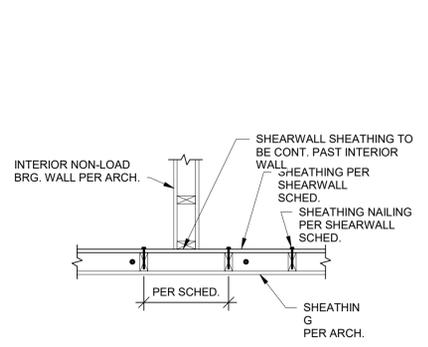
2 DETAIL
3/4" = 1'-0"



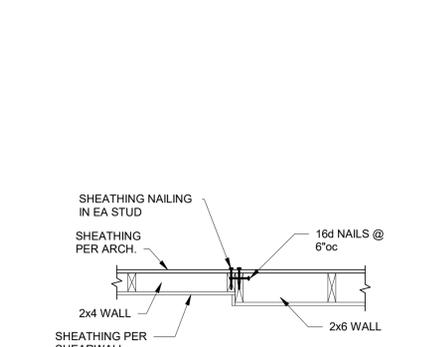
3 SECTION
3/4" = 1'-0"



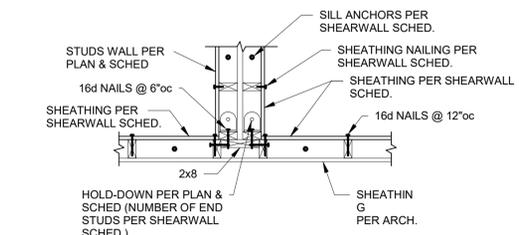
4A SECTION
3/4" = 1'-0"



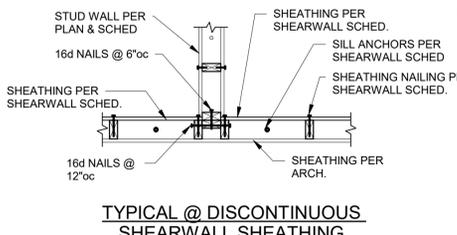
4B SECTION
3/4" = 1'-0"



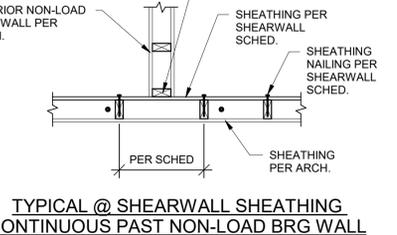
4C SECTION
3/4" = 1'-0"



5 SECTION
3/4" = 1'-0"

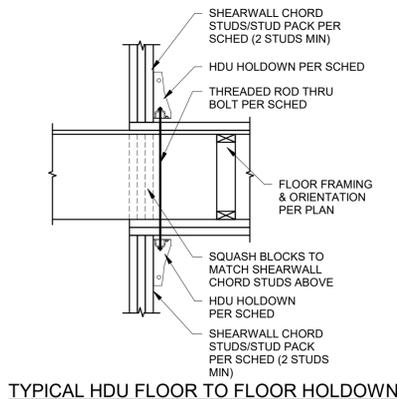


6 SECTION
3/4" = 1'-0"



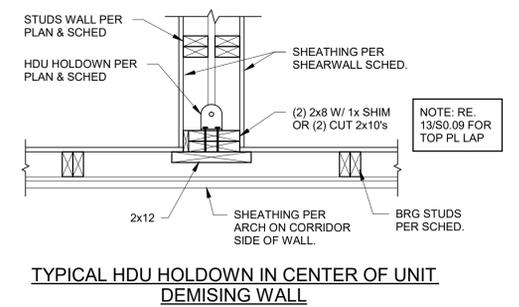
TYPICAL @ SHEARWALL SHEATHING CONTINUOUS PAST NON-LOAD BRG WALL

7 SECTION
3/4" = 1'-0"



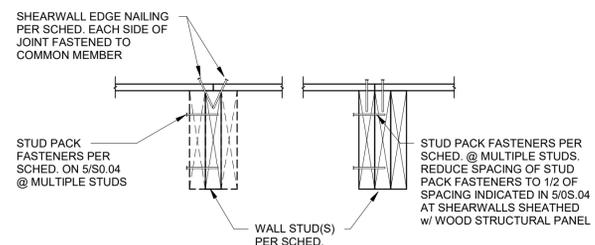
TYPICAL HDU FLOOR TO FLOOR HOLDOWN

8 SECTION
3/4" = 1'-0"



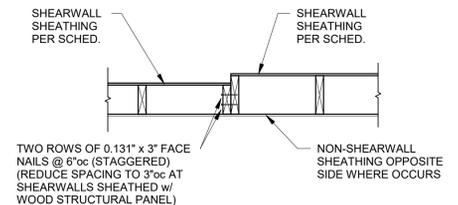
TYPICAL HDU HOLDOWN IN CENTER OF UNIT DEMISING WALL

9 SECTION
1" = 1'-0"



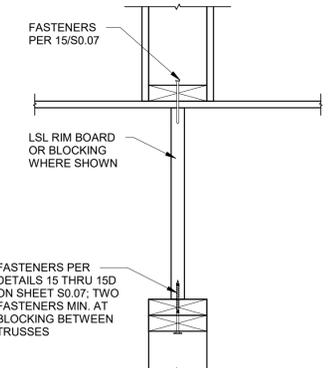
TYPICAL SHEARWALL SHEATHING JOINT

10 SECTION
1 1/2" = 1'-0"



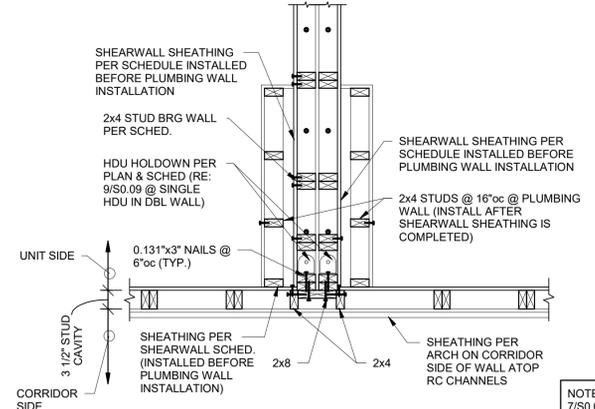
TYPICAL SHEARWALL DETAIL AT WALL STUD SIZE TRANSITION

10A SECTION
3/4" = 1'-0"



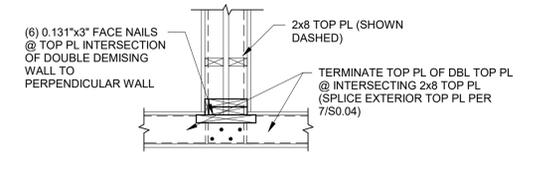
TYPICAL SHEARWALL SILL PL ATTACHMENT AT 2x SILL

11 SECTION
1 1/2" = 1'-0"



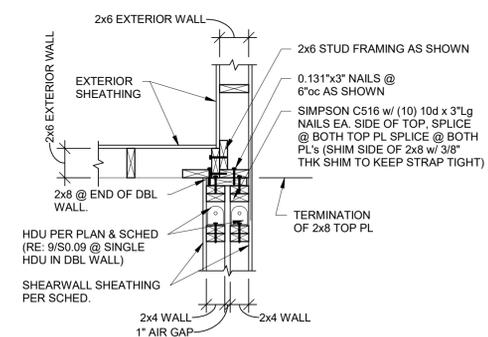
TYPICAL INTERSECTION OF CORRIDOR WALL AND UNIT DEMISING WALL w/ PLUMBING WALL

12 SECTION
3/4" = 1'-0"



TYPICAL TOP PL LAP @ UNIT DEMISING WALL AT DISCONT. END

13 SECTION
3/4" = 1'-0"



TYPICAL @ UNIT PARTY WALL TRANSITION TO 2x6 EXT. WALL

14 SECTION
3/4" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
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NW SLOAN & NESYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
• 02/22/24 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

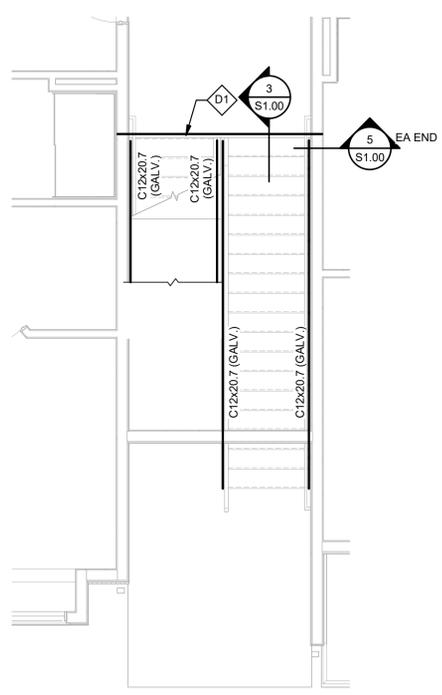
REVISIONS

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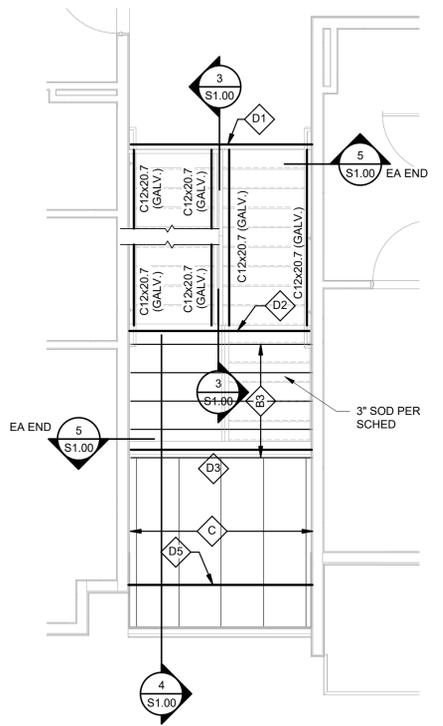
SHEET NAME
SHEARWALL DETAILS

SHEET NO.
S0.09

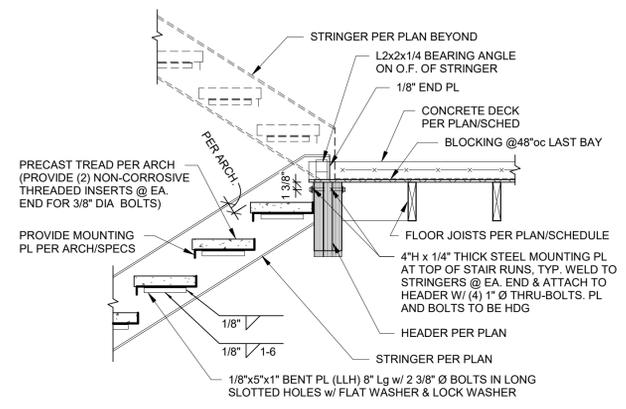
9/20/2024 8:54:29 AM



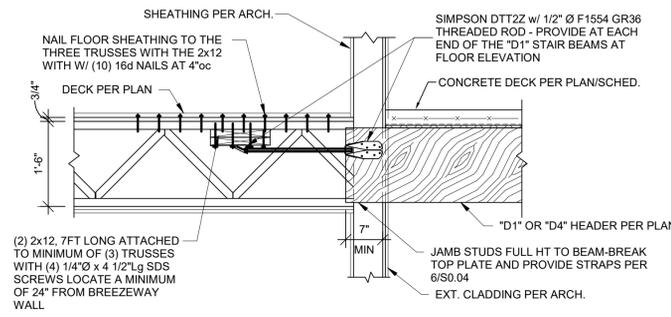
1 TYPICAL STAIR FRAMING PLAN - LEVEL 2
1/4" = 1'-0"



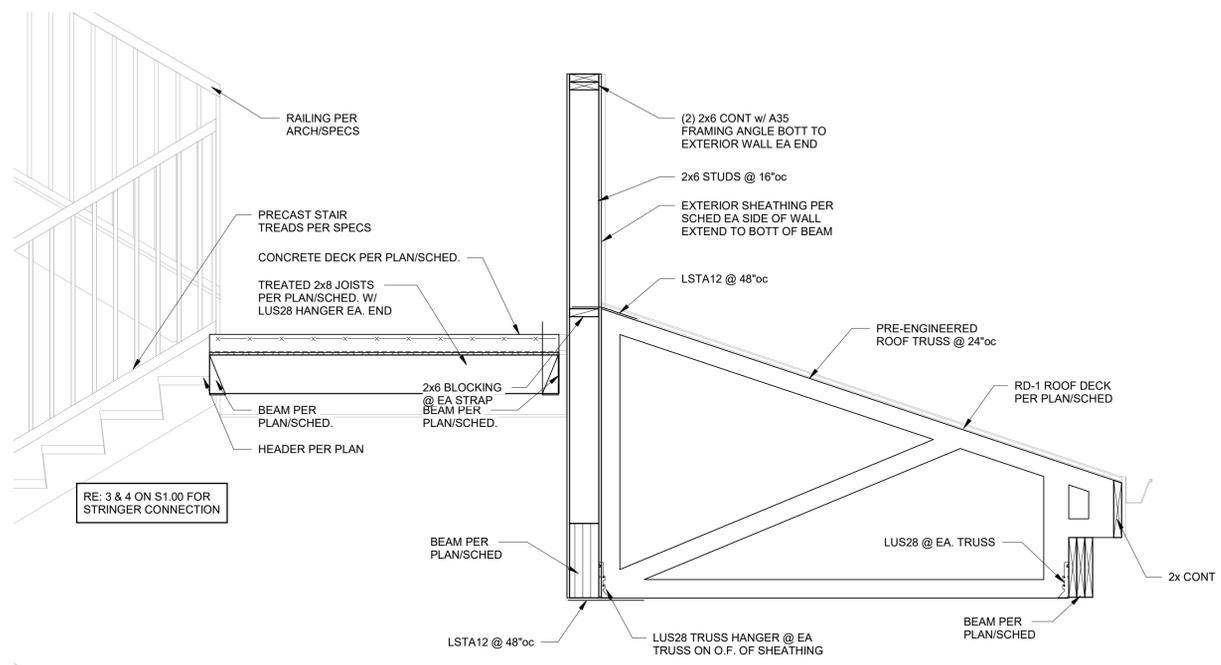
2 TYPICAL STAIR FRAMING PLAN - LEVEL 3
1/4" = 1'-0"



TYP BREEZEWAY STAIR LANDING DETAIL
3 SECTION
3/4" = 1'-0"



5 SECTION
3/4" = 1'-0"



4 SECTION
3/4" = 1'-0"

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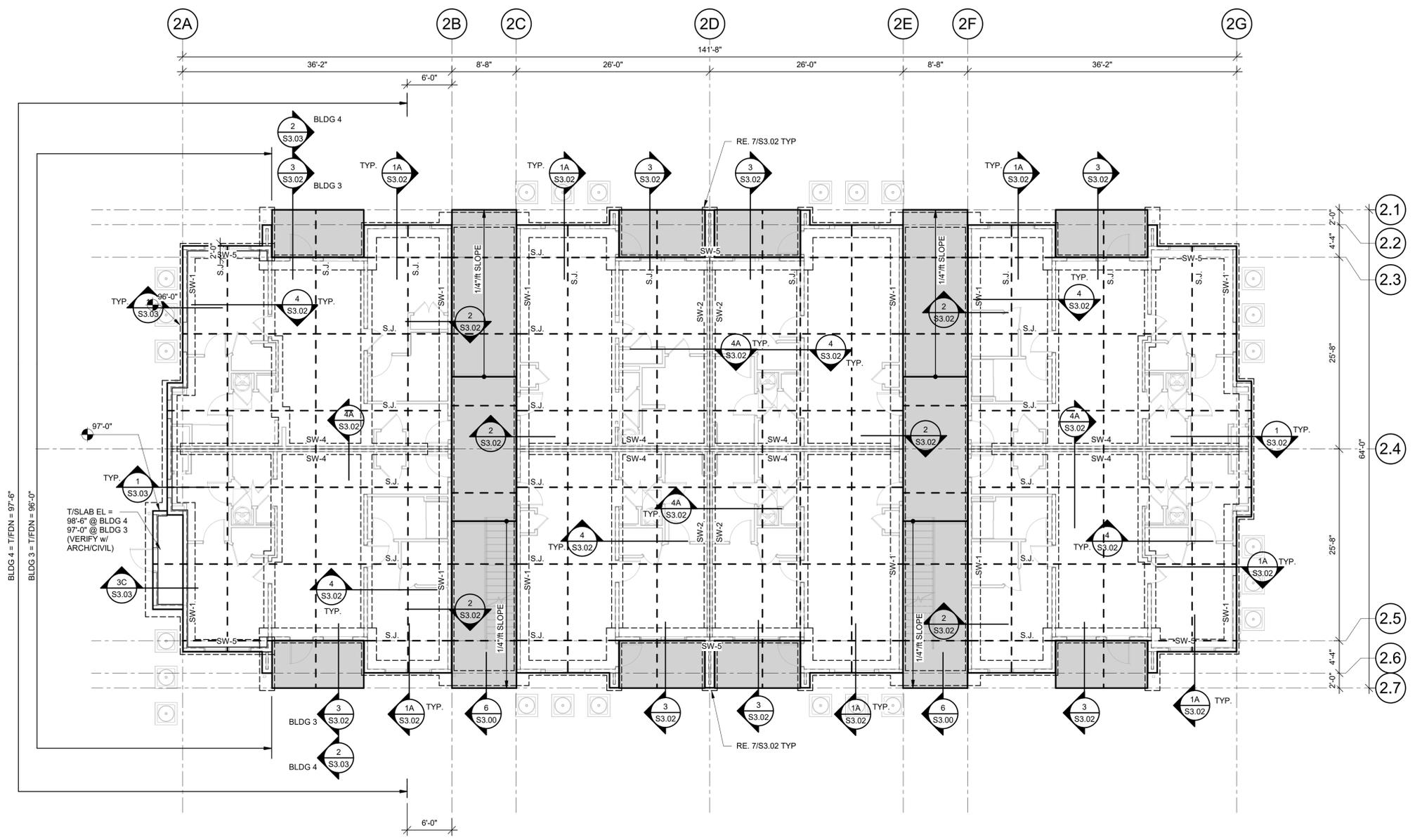
DRAWING RELEASE LOG
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REVISIONS

JOB NO. 740623 DATE 04.19.24
DRAWN BY BDC
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SHEET NAME
STAIR FRAMING PLANS

SHEET NO.
S1.00



BUILDING 3 SHOWN (BUILDING 4 MIRROR)

1 BUILDING A - FOUNDATION PLAN
1/8" = 1'-0"

SLAB ON GRADE AND FOUNDATION NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01.
2. REFER TO TYPICAL DETAILS ON S3.00 SERIES SHEETS. SECTIONS NOT OTHERWISE INDICATED ON PLAN SHALL BE SIMILAR TO LIKE CONDITIONS.
3. CONFIRM ALL DIMENSIONS, ELEVATIONS, SLOPES, AND RECESSES WITH ARCH DRAWINGS.
4. REFER TO SHEARWALL AND STUD BEARING WALL PLANS ON SHEET S2.X5 SERIES DRAWINGS.
5. REFER TO SHEARWALL SCHEDULE ON SHEET S0.08.
6. AT ALL CONTINUOUS FOUNDATIONS, PROVIDE CORNER BARS PER 3/S3.00 AT ALL CORNERS AND INTERSECTIONS.
7. TOP OF FOUNDATION ELEVATION = 99'-0" U.N.O.
8. STRUCTURAL DATUM ELEVATION = 100'-0". CIVIL DATUM ELEVATION PER CIVIL DRAWINGS (VARIES PER BUILDING)
9. PROVIDE "4" SOG" PER SCHED. AT ALL INTERIOR SLAB ON GRADE AND "4" EXT SOG" PER SCHED. AT ALL EXTERIOR SLAB ON GRADE (SHOWN AS SOLID POCHÉ ON PLAN).

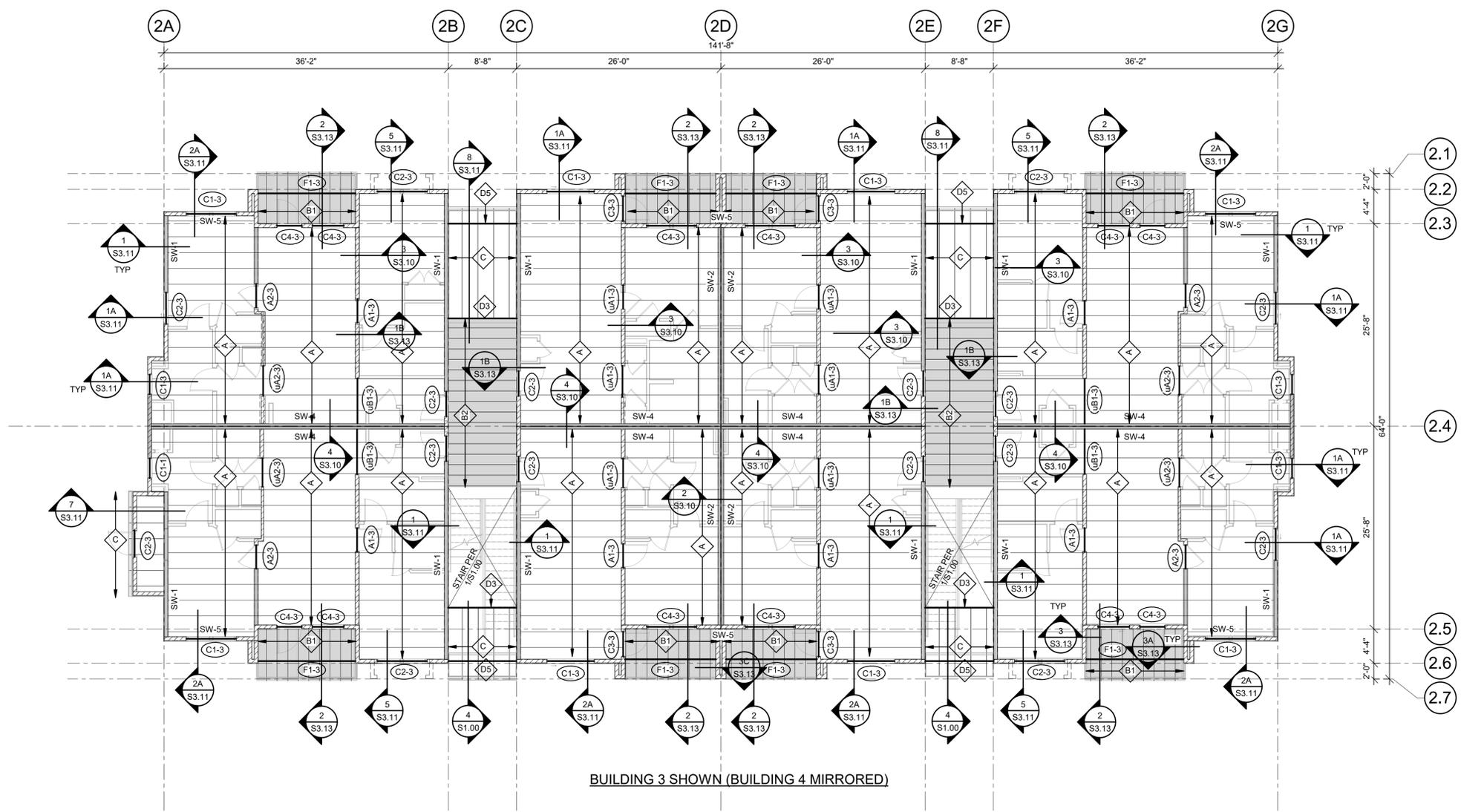
A NEW APARTMENT COMMUNITY AT:
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REVISIONS

JOB NO. 740623 DATE 04.19.24
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CD SET/PERMIT

SHEET NAME BUILDING A - FOUNDATION PLAN
SHEET NO. **S2.01**



BUILDING 3 SHOWN (BUILDING 4 MIRRORED)



1 BUILDING A - SECOND FLOOR FRAMING PLAN
1/8" = 1'-0"

WOOD FLOOR FRAMING NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01
2. REFER TO NAILING SCHEDULE ON SHEET S0.02
3. REFER TO PLAN NOTES ON SHEET S0.02
4. REFER TO HEADER SCHEDULE ON SHEET S0.02
5. REFER TO SHEARWALL AND BEARING WALL PLANS ON S2.X5 SHEETS.
6. REFER TO TYPICAL WOOD DETAILS ON SHEET S0.03 THROUGH S0.09.
7. REFER TO FLOOR FRAMING DETAILS ON S3.10 SERIES SHEETS FOR SIMILAR CONDITIONS NOT OTHERWISE INDICATED.
8. PRE-ENGINEERED FLOOR TRUSSES SHALL BE DESIGNED PER THE LOADING CRITERIA OUTLINED IN THE STRUCTURAL GENERAL NOTES AND ANY SPECIAL LOADING CONDITIONS DEFINED IN THESE DRAWINGS. PROVIDE TRUSS SPACE DIRECTLY ABOVE AND CENTERED OVER THE HVAC CLOSETS (REFER TO ARCH & MEP DRAWINGS FOR LOCATIONS).
9. PROVIDE "FD-1" FLOOR DECK AT ALL INTERIOR FLOOR LOCATIONS U.N.O.
10. PROVIDE "3 SOD" CONCRETE TOPPED DECK AT EXTERIOR BALCONY/DECKS AND BREEZEWAYS.
11. REFER TO TYPICAL BALCONY FRAMING DETAILS ON SHEET S3.12 & S3.13.
12. REFER TO TYPICAL STAIR FRAMING PLANS AND DETAILS ON SHEET S1.00.
13. ALL EXTERIOR BALCONY/DECK AND BREEZEWAY JOISTS SHALL BE TREATED SOUTHERN YELLOW PINE, NO. 2 GRADE (U.N.O.).

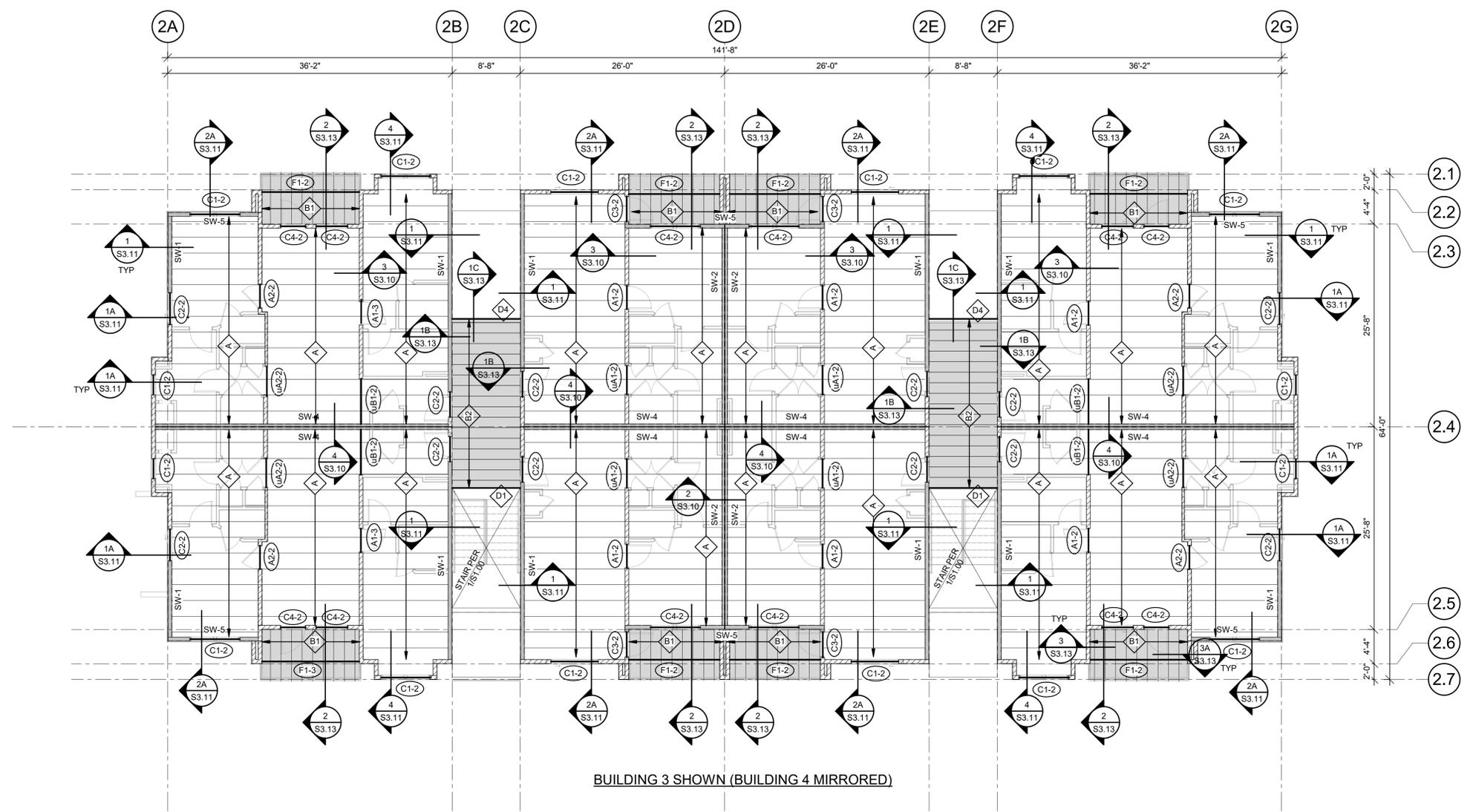
A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
• 03/23/24 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS

JOB NO. 740623 DATE 04.19.24
DRAWN BY BDC
CD SET/PERMIT

SHEET NAME
BUILDING A - SECOND FLOOR FRAMING PLAN
SHEET NO.
S2.02



BUILDING 3 SHOWN (BUILDING 4 MIRRORED)



1 BUILDING A - THIRD FLOOR FRAMING PLAN
1/8" = 1'-0"

WOOD FLOOR FRAMING NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01
2. REFER TO NAILING SCHEDULE ON SHEET S0.02
3. REFER TO PLAN NOTES ON SHEET S0.02
4. REFER TO HEADER SCHEDULE ON SHEET S0.02
5. REFER TO SHEARWALL AND BEARING WALL PLANS ON S2.X5 SHEETS.
6. REFER TO TYPICAL WOOD DETAILS ON SHEET S0.03 THROUGH S0.09.
7. REFER TO FLOOR FRAMING DETAILS ON S3.10 SERIES SHEETS FOR SIMILAR CONDITIONS NOT OTHERWISE INDICATED.
8. PRE-ENGINEERED FLOOR TRUSSES SHALL BE DESIGNED PER THE LOADING CRITERIA OUTLINED IN THE STRUCTURAL GENERAL NOTES AND ANY SPECIAL LOADING CONDITIONS DEFINED IN THESE DRAWINGS. PROVIDE TRUSS SPACE DIRECTLY ABOVE AND CENTERED OVER THE HVAC CLOSETS (REFER TO ARCH & MEP DRAWINGS FOR LOCATIONS).
9. PROVIDE "FD-1" FLOOR DECK AT ALL INTERIOR FLOOR LOCATIONS U.N.O.
10. PROVIDE "3 SOD" CONCRETE TOPPED DECK AT EXTERIOR BALCONY/DECKS AND BREEZEWAYS.
11. REFER TO TYPICAL BALCONY FRAMING DETAILS ON SHEET S3.12 & S3.13.
12. REFER TO TYPICAL STAIR FRAMING PLANS AND DETAILS ON SHEET S1.00.
13. ALL EXTERIOR BALCONY/DECK AND BREEZEWAY JOISTS SHALL BE TREATED SOUTHERN YELLOW PINE, NO. 2 GRADE (U.N.O.).

A NEW APARTMENT COMMUNITY AT:
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DRAWING RELEASE LOG

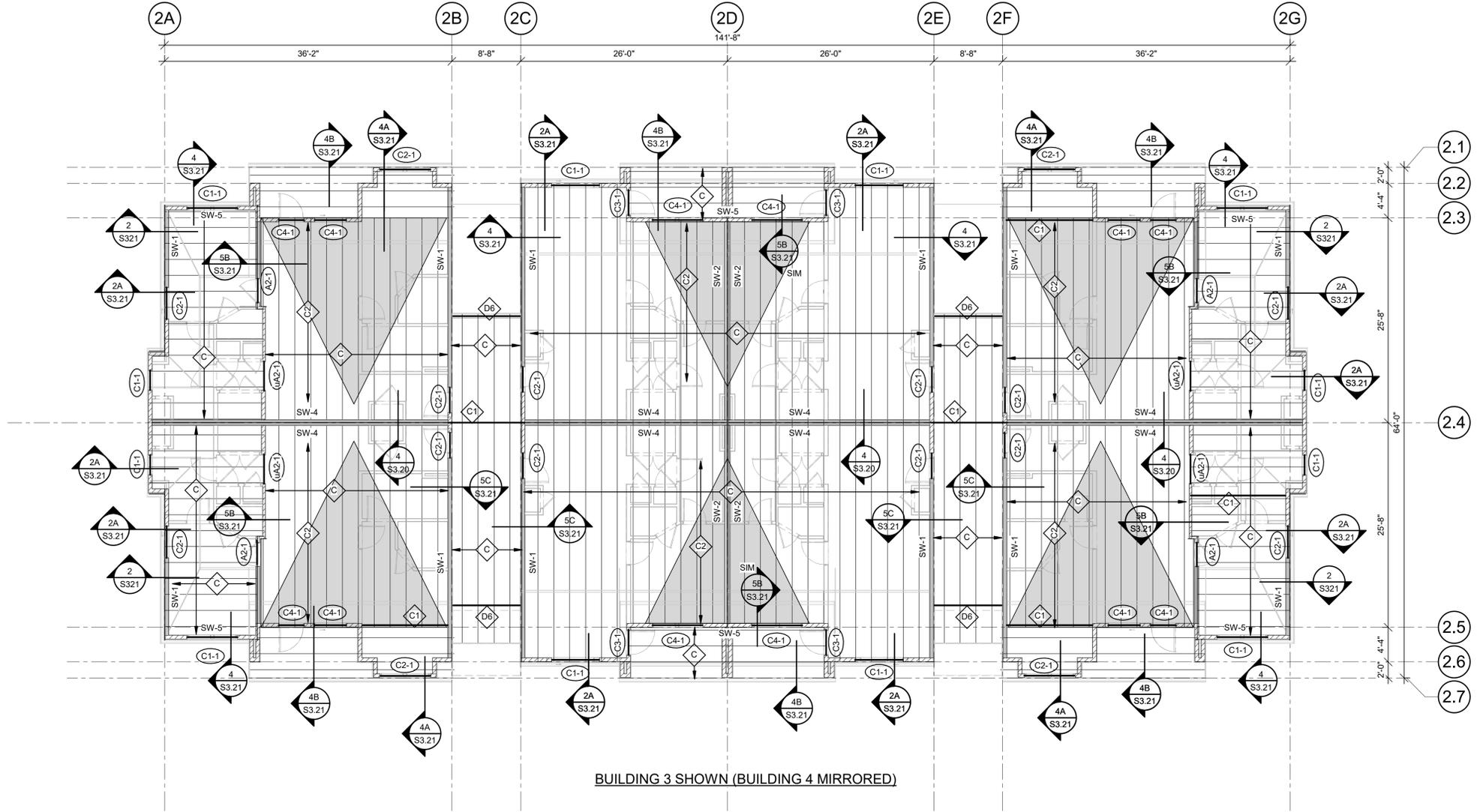
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04/19/24 90% CD Set

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SHEET NAME
BUILDING A - THIRD FLOOR FRAMING PLAN
SHEET NO.

S2.03



BUILDING 3 SHOWN (BUILDING 4 MIRRORED)

1 BUILDING A - ROOF FRAMING PLAN
1/8" = 1'-0"

- WOOD ROOF FRAMING NOTES:**
- REFER TO GENERAL NOTES AND SYMBOLS LEGEND ON SHEET S0.01
 - REFER TO NAILING SCHEDULE ON SHEET S0.02
 - REFER TO PLAN NOTES ON SHEET S0.02
 - REFER TO HEADER SCHEDULE ON SHEET S0.02
 - REFER TO SHEARWALL AND BEARING WALL PLANS ON S2.X5 SHEETS.
 - REFER TO TYPICAL WOOD DETAILS ON SHEET S0.03 THROUGH S0.09.
 - REFER TO ROOF FRAMING DETAILS ON S3.20 SERIES SHEETS FOR SIMILAR CONDITIONS NOT OTHERWISE INDICATED.
 - PRE-ENGINEERED ROOF TRUSSES SHALL BE DESIGNED PER THE LOADING CRITERIA OUTLINED IN THE STRUCTURAL GENERAL NOTES AND FOR ANY SPECIAL LOADING CONDITIONS DEFINED IN THESE DRAWINGS. PROVIDE TRUSS SPACE DIRECTLY ABOVE AND CENTERED OVER THE HVAC CLOSETS (REFER TO ARCH & MEP DRAWINGS FOR LOCATIONS)
 - PROVIDE "RD-1" ROOF DECK AT ALL AREAS OF ROOF U.N.O.
 - PROVIDE UNIFORM UPLIFT SCREWS PER DETAILS 3 & 3A ON S0.07 AT FLOOR BELOW AT ROOF TRUSS BEARING WALLS.
 - PROVIDE (3) STUD (MINIMUM) ALIGNED UNDER EACH END OF EACH GIRDER TRUSS (CONTINUOUS TO FOUNDATION) - FINAL QUANTITY TO MATCH NUMBER OF PLYS OF TRUSS GIRDER WHERE GIRDER IS MORE THAN 3-PLY

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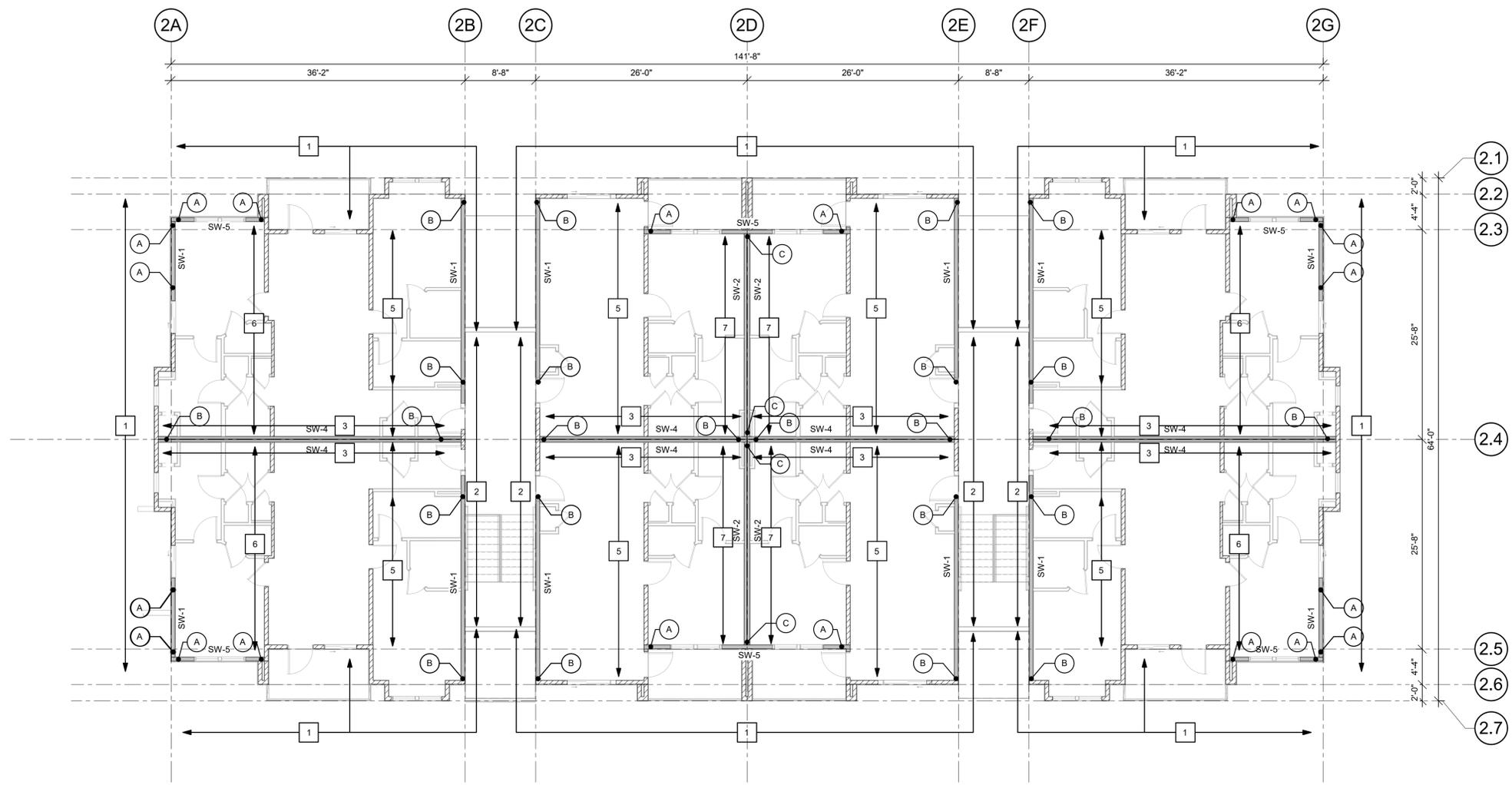
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03/22/24 50% CD Set
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REVISIONS

JOB NO. **740623** DATE **04.19.24**
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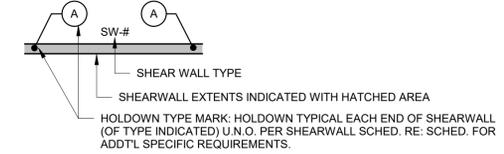
SHEET NAME
BUILDING A - ROOF FRAMING PLAN
SHEET NO.
S2.04



BUILDING 3 SHOWN (BUILDING 4 MIRRORED)

1 BUILDING A - BEARING WALLS & SHEARWALLS PLAN
1/8" = 1'-0"

- SHEARWALL AND WALL TYPE NOTES:**
- REFER TO GENERAL NOTES ON SHEET S0.01.
 - REFER TO SYMBOLS LEGEND ON SHEET S0.01.
 - REFER TO SHEAR WALL & HOLDOWN SCHEDULES ON SHEET S0.02.
 - REFER TO STUD BEARING WALL SCHEDULES ON SHEET S0.02.
 - ALL EXTERIOR WALLS NOT SPECIFICALLY DESIGNATED AS STRUCTURAL SHEARWALLS SHALL BE SHEATHED WITH 7/16" OSB SHEATHING WITH 8d NAILS AT 6"oc EDGES AND AT 12"oc FIELD.
 - SHEARWALLS/HOLDOWNS DESIGNATED AS FOLLOWS:



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REVISIONS

JOB NO. 740623 DATE 04.19.24
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SHEET NAME
BUILDING A - BEARING &
SHEAR WALL PLAN
SHEET NO.
S2.05



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• 04/19/24 90% CD Set

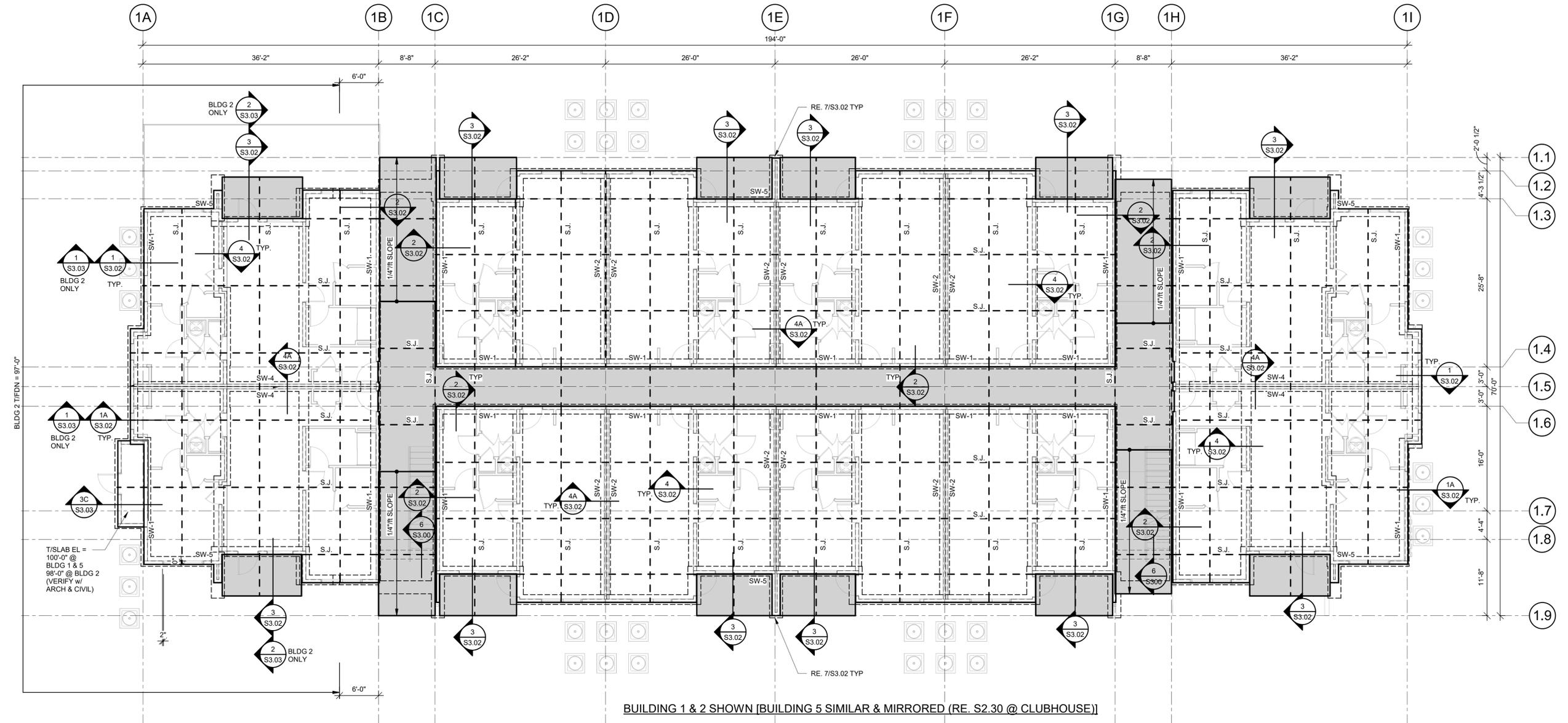
REVISIONS

JOB NO. DATE
740623 04.19.24
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BDC
CD SET/PERMIT

SHEET NAME
BUILDING C - FOUNDATION
PLAN
SHEET NO.

S2.21

ARCH D 24" x 36"



BUILDING 1 & 2 SHOWN [BUILDING 5 SIMILAR & MIRRORED (RE. S2.30 @ CLUBHOUSE)]



1 BUILDING "C" - FOUNDATION PLAN
1/8" = 1'-0"

SLAB ON GRADE AND FOUNDATION NOTES:

- REFER TO GENERAL NOTES ON SHEET S0.01.
- REFER TO TYPICAL DETAILS ON S3.00 SERIES SHEETS. SECTIONS NOT OTHERWISE INDICATED ON PLAN SHALL BE SIMILAR TO LIKE CONDITIONS.
- CONFIRM ALL DIMENSIONS, ELEVATIONS, SLOPES, AND RECESSES WITH ARCH DRAWINGS.
- REFER TO SHEARWALL AND STUD BEARING WALL PLANS ON SHEET S2.X5 SERIES DRAWINGS.
- REFER TO SHEARWALL SCHEDULE ON SHEET S0.08.
- AT ALL CONTINUOUS FOUNDATIONS, PROVIDE CORNER BARS PER 3/S3.00 AT ALL CORNERS AND INTERSECTIONS.
- TOP OF FOUNDATION ELEVATION = 99'-0" U.N.O.
- STRUCTURAL DATUM ELEVATION = 100'-0". CIVIL DATUM ELEVATION PER CIVIL DRAWINGS (VARIES PER BUILDING)
- PROVIDE "4" SOG* PER SCHED. AT ALL INTERIOR SLAB ON GRADE AND "4" EXT SOG* PER SCHED. AT ALL EXTERIOR SLAB ON GRADE (SHOWN AS SOLID POCHE ON PLAN).



BUILDING 1 & 2 SHOWN (BUILDING 5 SIMILAR & MIRRORED (RE. S2.30 @ CLUBHOUSE))

1 BUILDING C - SECOND FLOOR FRAMING PLAN
1/8" = 1'-0"

- WOOD FLOOR FRAMING NOTES:**
- REFER TO GENERAL NOTES ON SHEET S0.01
 - REFER TO NAILING SCHEDULE ON SHEET S0.02
 - REFER TO PLAN NOTES ON SHEET S0.02
 - REFER TO HEADER SCHEDULE ON SHEET S0.02
 - REFER TO SHEARWALL AND BEARING WALL PLANS ON S2.X5 SHEETS.
 - REFER TO TYPICAL WOOD DETAILS ON SHEET S0.03 THROUGH S0.09.
 - REFER TO FLOOR FRAMING DETAILS ON S3.10 SERIES SHEETS FOR SIMILAR CONDITIONS NOT OTHERWISE INDICATED.
 - PRE-ENGINEERED FLOOR TRUSSES SHALL BE DESIGNED PER THE LOADING CRITERIA OUTLINED IN THE STRUCTURAL GENERAL NOTES AND ANY SPECIAL LOADING CONDITIONS DEFINED IN THESE DRAWINGS. PROVIDE TRUSS SPACE DIRECTLY ABOVE AND CENTERED OVER THE HVAC CLOSETS (REFER TO ARCH & MEP DRAWINGS FOR LOCATIONS).
 - PROVIDE "FD-1" FLOOR DECK AT ALL INTERIOR FLOOR LOCATIONS U.N.O.
 - PROVIDE "3 SOD" CONCRETE TOPPED DECK AT EXTERIOR BALCONY/DECKS AND BREEZEWAYS.
 - REFER TO TYPICAL BALCONY FRAMING DETAILS ON SHEET S3.12 & S3.13.
 - REFER TO TYPICAL STAIR FRAMING PLANS AND DETAILS ON SHEET S1.00.
 - ALL EXTERIOR BALCONY/DECK AND BREEZEWAY JOISTS SHALL BE TREATED SOUTHERN YELLOW PINE, NO. 2 GRADE (U.N.O.).

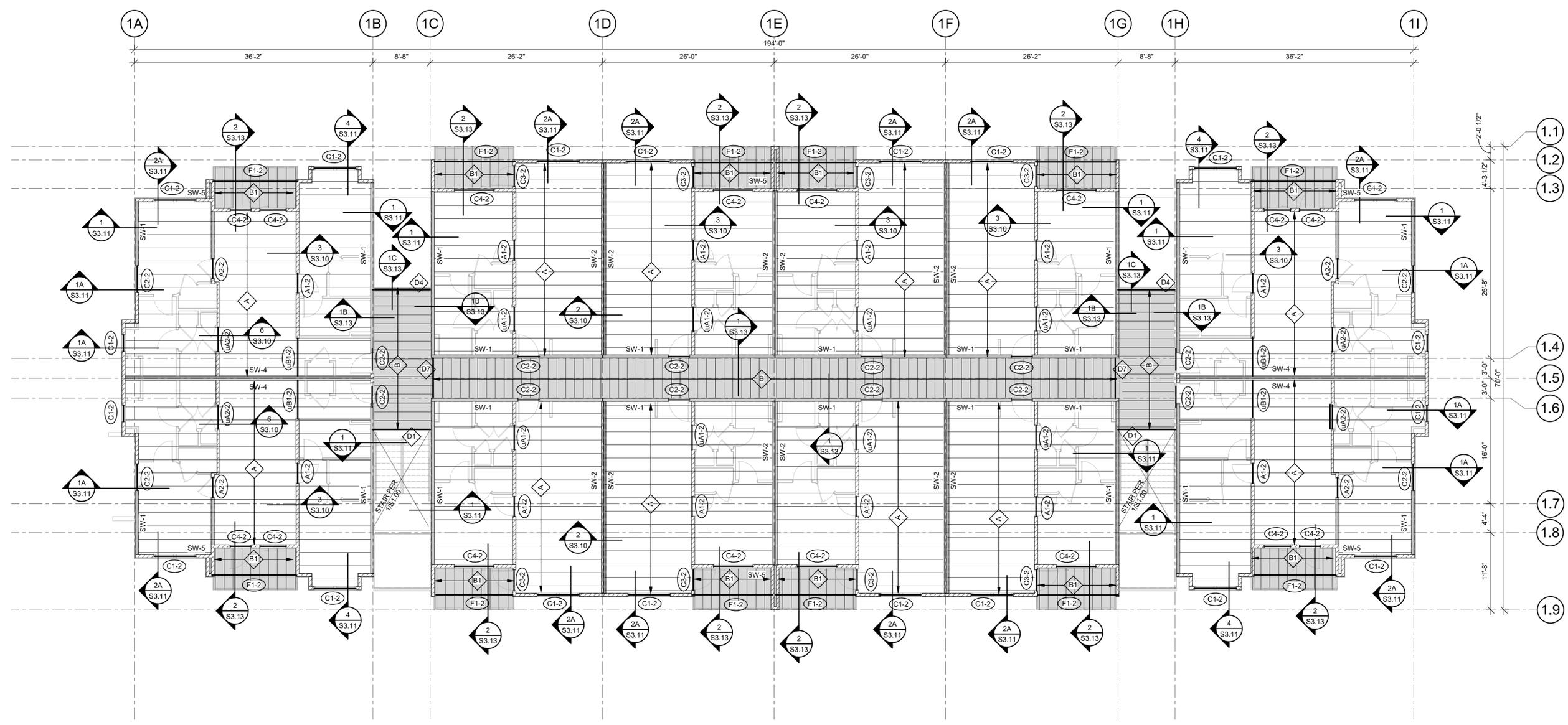
A NEW APARTMENT COMMUNITY AT:
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LEE'S SUMMIT, MO 64086

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REVISIONS

JOB NO. 740623 DATE 04.19.24
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SHEET NAME
BUILDING C - SECOND
FLOOR FRAMING PLAN
SHEET NO.
S2.22



1 BUILDING C - THIRD FLOOR FRAMING PLAN
1/8" = 1'-0"

- WOOD FLOOR FRAMING NOTES:**
1. REFER TO GENERAL NOTES ON SHEET S0.01
 2. REFER TO NAILING SCHEDULE ON SHEET S0.02
 3. REFER TO PLAN NOTES ON SHEET S0.02
 4. REFER TO HEARDER SCHEDULE ON SHEET S0.02
 5. REFER TO SHEARWALL AND BEARING WALL PLANS ON S2.X5 SHEETS.
 6. REFER TO TYPICAL WOOD DETAILS ON SHEET S0.03 THROUGH S0.09.
 7. REFER TO FLOOR FRAMING DETAILS ON S3.10 SERIES SHEETS FOR SIMILAR CONDITIONS NOT OTHERWISE INDICATED.
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 9. PROVIDE "FD-1" FLOOR DECK AT ALL INTERIOR FLOOR LOCATIONS U.N.O.
 10. PROVIDE "S" SODY CONCRETE TOPPED DECK AT EXTERIOR BALCONY/DECKS AND BREEZEWAYS.
 11. REFER TO TYPICAL BALCONY FRAMING DETAILS ON SHEET S3.12 & S3.13.
 12. REFER TO TYPICAL STAIR FRAMING PLANS AND DETAILS ON SHEET S1.00.
 13. ALL EXTERIOR BALCONY/DECK AND BREEZEWAY JOISTS SHALL BE TREATED SOUTHERN YELLOW PINE, NO. 2 GRADE (U.N.O.).

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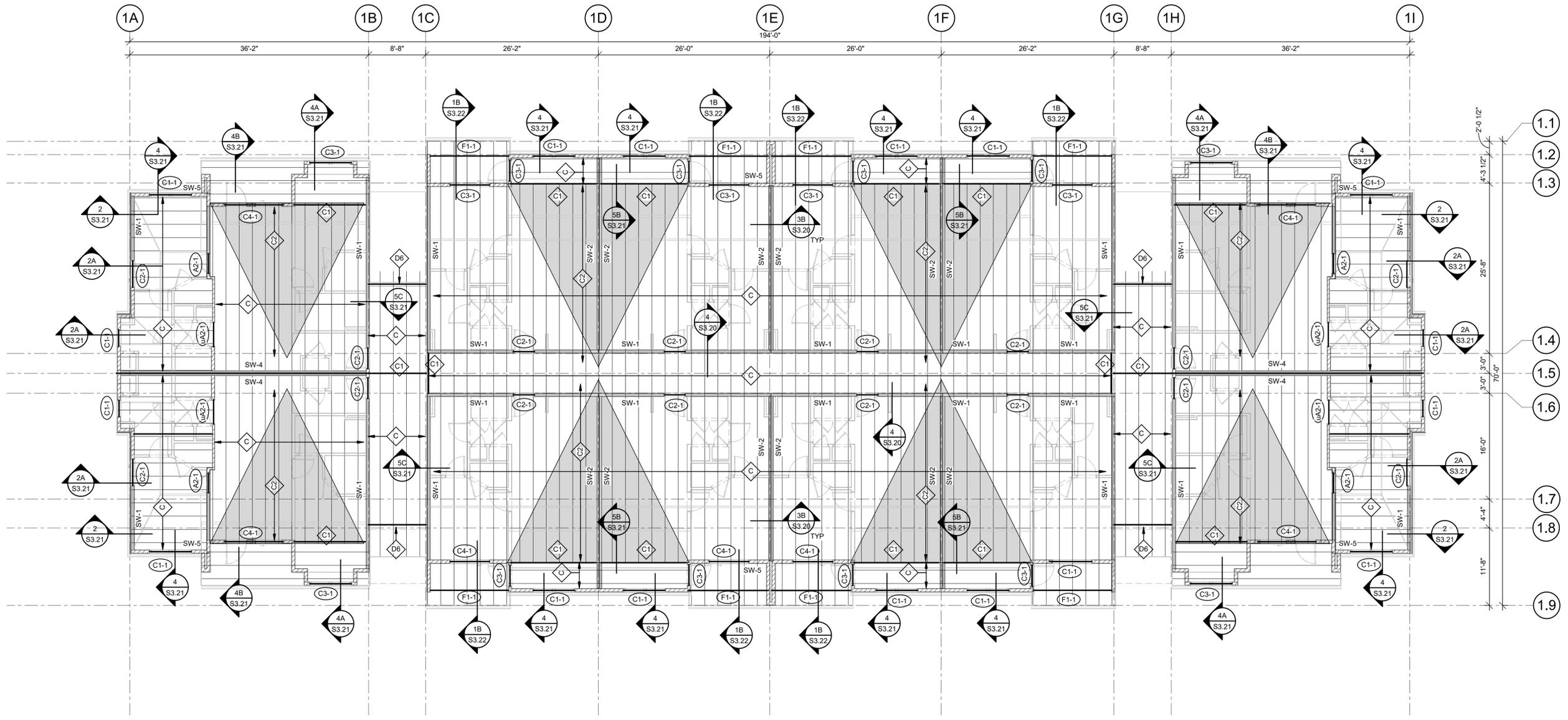
DRAWING RELEASE LOG
• 03/23/24 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS

JOB NO. 740623 DATE 04.19.24
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SHEET NAME BUILDING C - THIRD FLOOR FRAMING PLAN
SHEET NO.

S2.23



1 BUILDING C - ROOF FRAMING PLAN
1/8" = 1'-0"

- WOOD ROOF FRAMING NOTES:**
1. REFER TO GENERAL NOTES AND SYMBOLS LEGEND ON SHEET S0.01
 2. REFER TO NAILING SCHEDULE ON SHEET S0.02
 3. REFER TO PLAN NOTES ON SHEET S0.02
 4. REFER TO HEADER SCHEDULE ON SHEET S0.02.
 5. REFER TO SHEARWALL AND BEARING WALL PLANS ON S2.X5 SHEETS.
 6. REFER TO TYPICAL WOOD DETAILS ON SHEET S0.03 THROUGH S0.09.
 7. REFER TO ROOF FRAMING DETAILS ON S3.20 SERIES SHEETS FOR SIMILAR CONDITIONS NOT OTHERWISE INDICATED.
 8. PRE-ENGINEERED ROOF TRUSSES SHALL BE DESIGNED PER THE LOADING CRITERIA OUTLINED IN THE STRUCTURAL GENERAL NOTES AND FOR ANY SPECIAL LOADING CONDITIONS DEFINED IN THESE DRAWINGS. PROVIDE TRUSS SPACE DIRECTLY ABOVE AND CENTERED OVER THE HVAC CLOSETS (REFER TO ARCH & MEP DRAWINGS FOR LOCATIONS)
 9. PROVIDE "RD-1" ROOF DECK AT ALL AREAS OF ROOF U.N.O.
 10. PROVIDE UNIFORM UPLIFT SCREWS PER DETAILS 3 & 3A ON S0.07 AT FLOOR BELOW AT ROOF TRUSS BEARING WALLS.
 11. PROVIDE (3) STUD (MINIMUM) ALIGNED UNDER EACH END OF EACH GIRDER TRUSS (CONTINUOUS TO FOUNDATION) - FINAL QUANTITY TO MATCH NUMBER OF PLYS OF TRUSS GIRDER WHERE GIRDER IS MORE THAN 3-PLY

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DRAWING RELEASE LOG

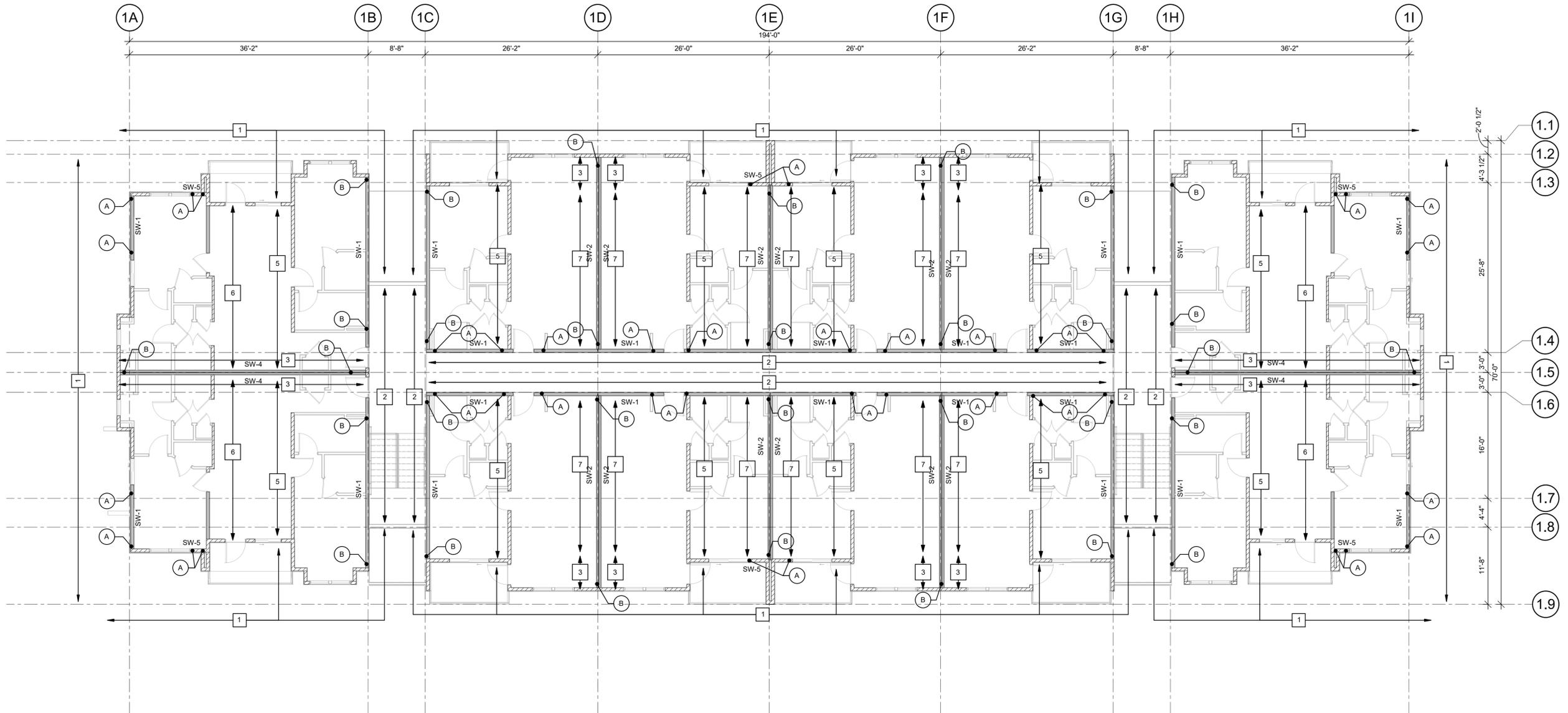
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03/22/24 50% CD Set
04/19/24 90% CD Set

REVISIONS

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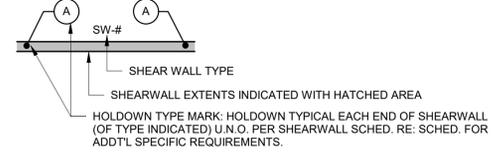
SHEET NAME BUILDING C - ROOF FRAMING PLAN
SHEET NO.

S2.24



1 BUILDING C - BEARING WALLS & SHEARWALLS PLAN
1/8" = 1'-0"

- SHEARWALL AND WALL TYPE NOTES:**
1. REFER TO GENERAL NOTES ON SHEET S0.01.
 2. REFER TO SYMBOLS LEGEND ON SHEET S0.01.
 3. REFER TO SHEAR WALL & HOLDOWN SCHEDULES ON SHEET S0.08.
 4. REFER TO STUD BEARING WALL SCHEDULES ON SHEET S0.02.
 5. ALL EXTERIOR WALLS NOT SPECIFICALLY DESIGNATED AS STRUCTURAL SHEARWALLS SHALL BE SHEATHED WITH 7/16" OSB SHEATHING WITH 8d NAILS AT 6"oc EDGES AND AT 12"oc FIELD.
 6. SHEARWALLS/HOLDOWNS DESIGNATED AS FOLLOWS:



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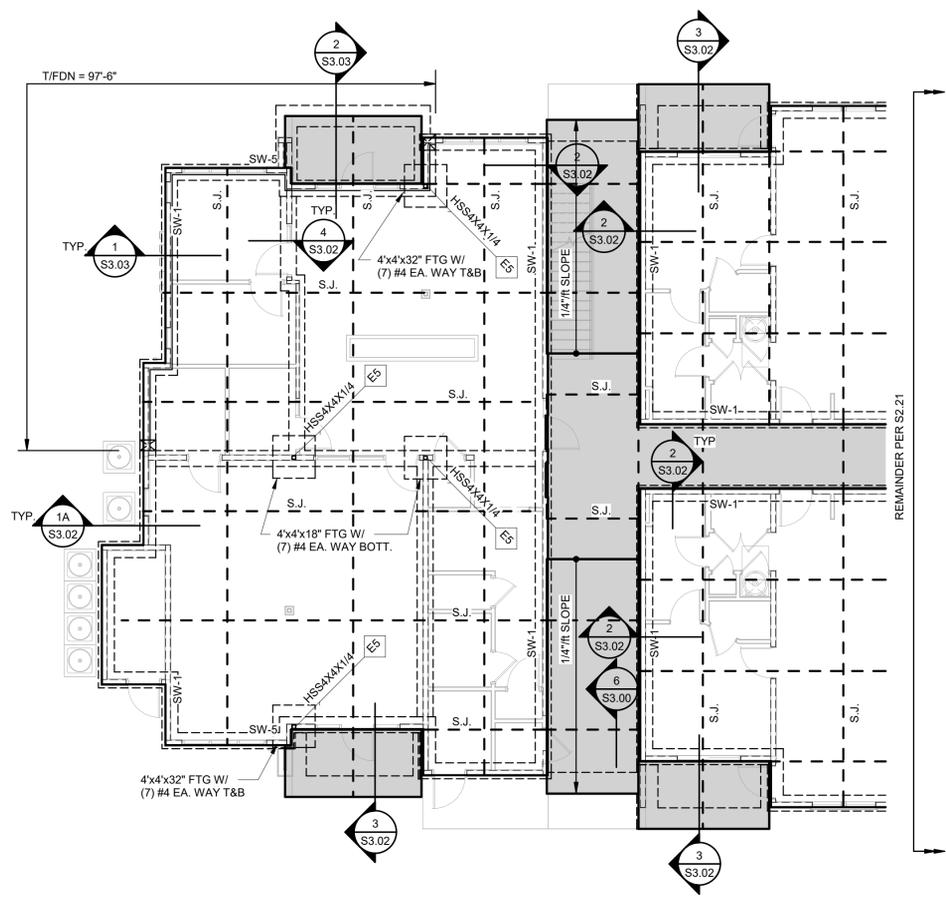
REVISIONS

JOB NO. 740623 DATE 04.19.24
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SHEET NAME
BUILDING C - BRG WALL &
SHEARWALL PLAN
SHEET NO.

S2.25

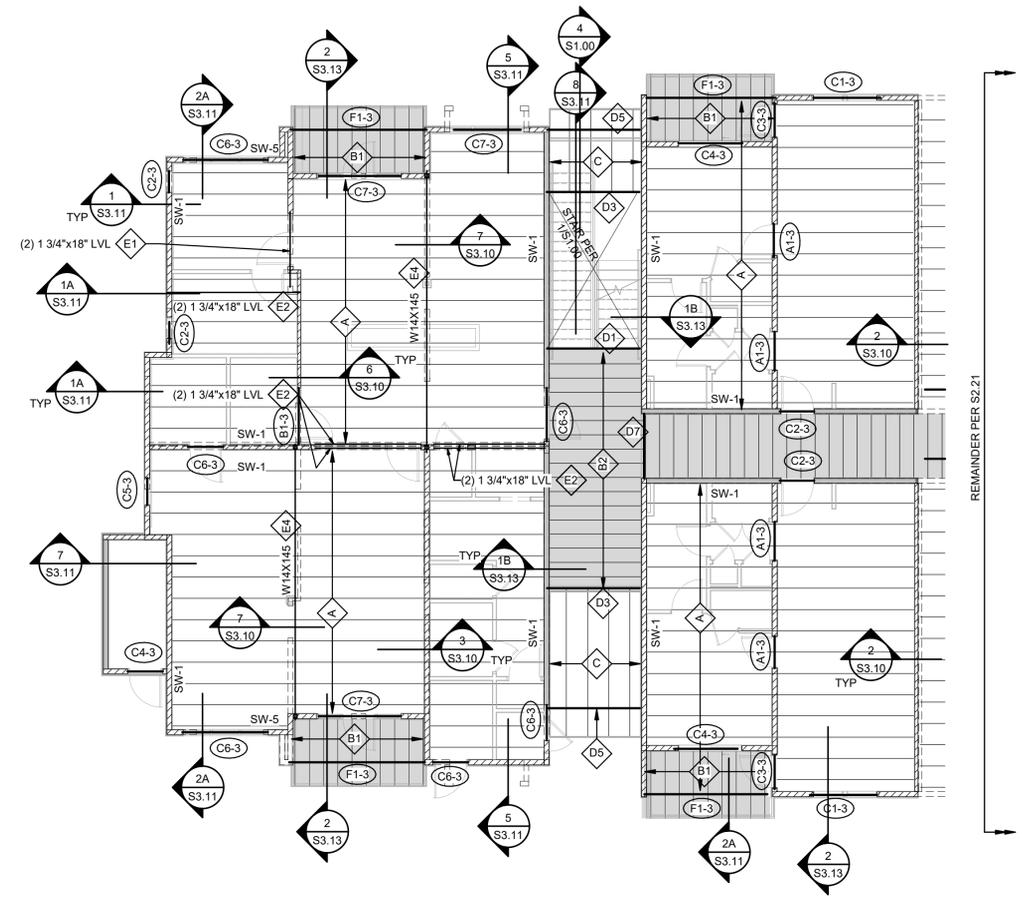
ARCH D 24' x 36'
9/20/24 8:55:48 AM



BUILDING C CLUBHOUSE - PARTIAL
1 FOUNDATION PLAN
1/8" = 1'-0"

SLAB ON GRADE AND FOUNDATION NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01.
2. REFER TO TYPICAL DETAILS ON S3.00 SERIES SHEETS. SECTIONS NOT OTHERWISE INDICATED ON PLAN SHALL BE SIMILAR TO LIKE CONDITIONS.
3. CONFIRM ALL DIMENSIONS, ELEVATIONS, SLOPES, AND RECESSES WITH ARCH DRAWINGS.
4. REFER TO SHEARWALL AND STUD BEARING WALL PLANS ON SHEET S2.X5 SERIES DRAWINGS.
5. REFER TO SHEARWALL SCHEDULE ON SHEET S0.08.
6. AT ALL CONTINUOUS FOUNDATIONS, PROVIDE CORNER BARS PER 3/S3.00 AT ALL CORNERS AND INTERSECTIONS.
7. TOP OF FOUNDATION ELEVATION = 99'-0" U.N.O.
8. STRUCTURAL DATUM ELEVATION = 100'-0". CIVIL DATUM ELEVATION PER CIVIL DRAWINGS (VARIES PER BUILDING).
9. PROVIDE "4" SOG" PER SCHED. AT ALL INTERIOR SLAB ON GRADE AND "4" EXT SOG" PER SCHED. AT ALL EXTERIOR SLAB ON GRADE (SHOWN AS SOLID POCHÉ ON PLAN).



BUILDING C CLUBHOUSE - PARTIAL
2 SECOND FLOOR FRAMING PLAN
1/8" = 1'-0"

WOOD FLOOR FRAMING NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01.
2. REFER TO NAILING SCHEDULE ON SHEET S0.02.
3. REFER TO PLAN NOTES ON SHEET S0.02.
4. REFER TO HEADER SCHEDULE ON SHEET S0.02.
5. REFER TO SHEARWALL AND BEARING WALL PLANS ON S2.X5 SHEETS.
6. REFER TO TYPICAL WOOD DETAILS ON SHEET S0.03 THROUGH S0.09.
7. REFER TO FLOOR FRAMING DETAILS ON S3.10 SERIES SHEETS FOR SIMILAR CONDITIONS NOT OTHERWISE INDICATED.
8. PRE-ENGINEERED FLOOR TRUSSES SHALL BE DESIGNED PER THE LOADING CRITERIA OUTLINED IN THE STRUCTURAL GENERAL NOTES AND ANY SPECIAL LOADING CONDITIONS DEFINED IN THESE DRAWINGS. PROVIDE TRUSS SPACE DIRECTLY ABOVE AND CENTERED OVER THE HVAC CLOSETS (REFER TO ARCH & MEP DRAWINGS FOR LOCATIONS).
9. PROVIDE "FD-1" FLOOR DECK AT ALL INTERIOR FLOOR LOCATIONS U.N.O.
10. PROVIDE "3 SOD" CONCRETE TOPPED DECK AT EXTERIOR BALCONY/DECKS AND BREEZEWAYS.
11. REFER TO TYPICAL BALCONY FRAMING DETAILS ON SHEET S3.12 & S3.13.
12. REFER TO TYPICAL STAIR FRAMING PLANS AND DETAILS ON SHEET S1.00.
13. ALL EXTERIOR BALCONY/DECK AND BREEZEWAY JOISTS SHALL BE TREATED SOUTHERN YELLOW PINE, NO. 2 GRADE (U.N.O.).

A NEW APARTMENT COMMUNITY AT:
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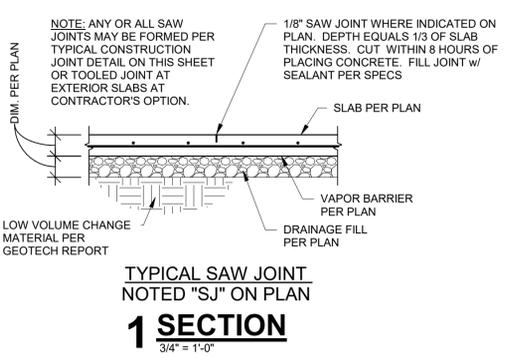
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• 03/22/24 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS

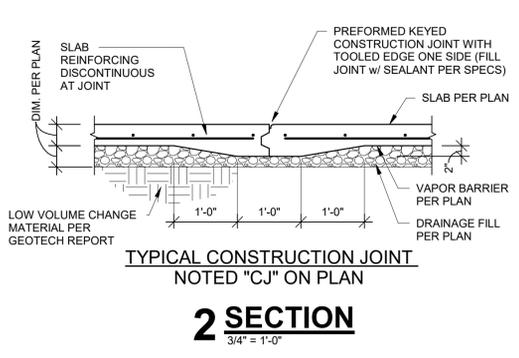
JOB NO. **740623** DATE **04.19.24**
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SHEET NAME
BUILDING C - CLUBHOUSE
PLANS
SHEET NO.

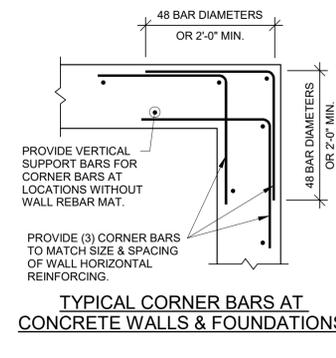
S2.30



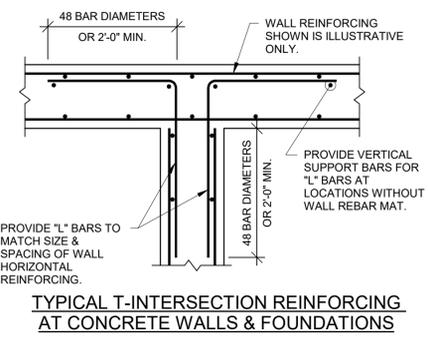
1 SECTION
3/4" = 1'-0"



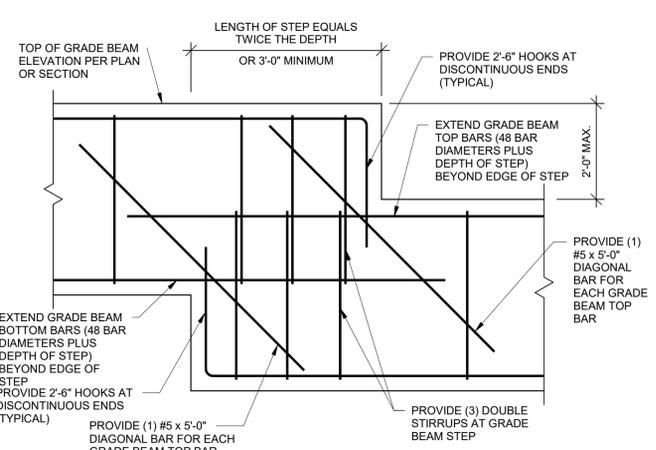
2 SECTION
3/4" = 1'-0"



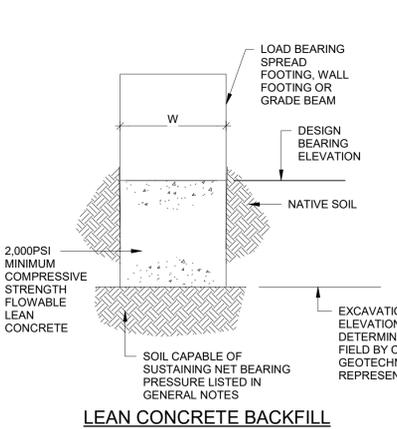
3 DETAIL
3/4" = 1'-0"



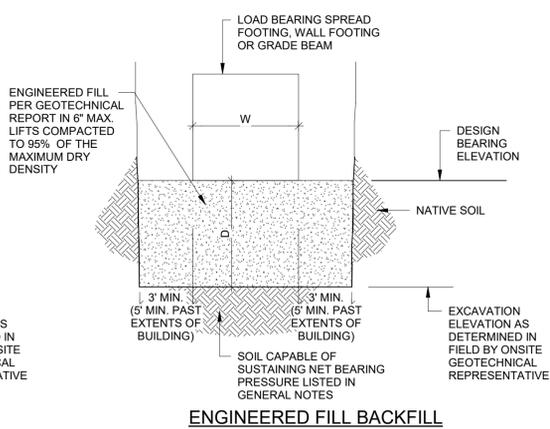
TYPICAL T-INTERSECTION REINFORCING AT CONCRETE WALLS & FOUNDATIONS



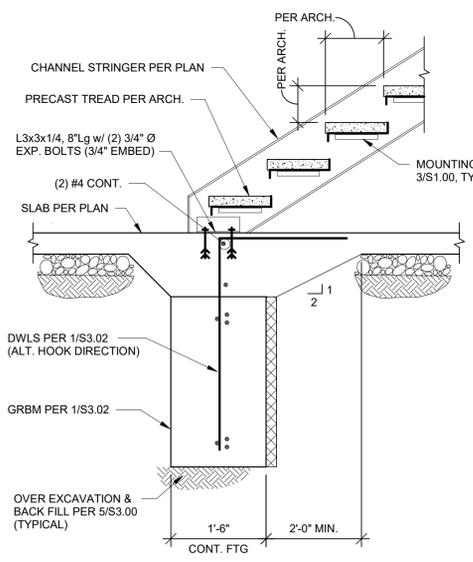
4 TYPICAL GRADE BEAM STEP
3/4" = 1'-0"



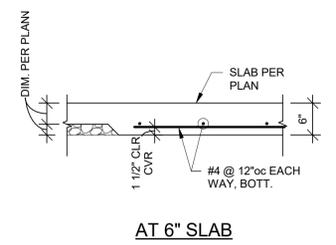
5 OVEREXCAVATION DETAIL
3/4" = 1'-0"



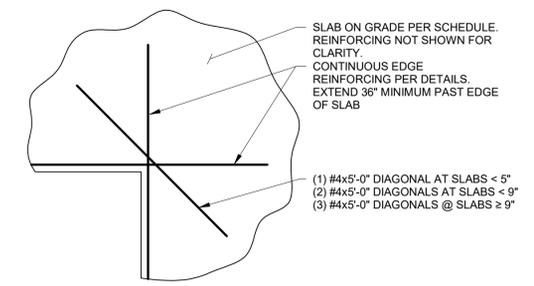
ENGINEERED FILL BACKFILL



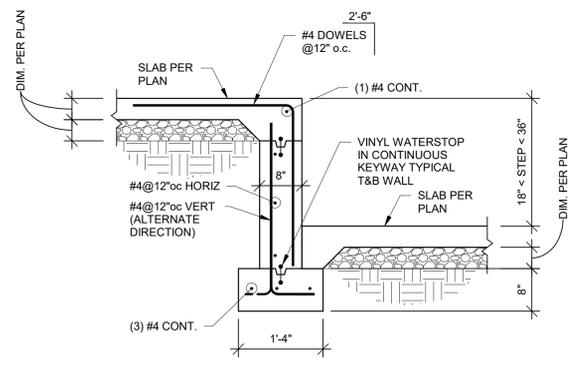
6 SECTION
3/4" = 1'-0"



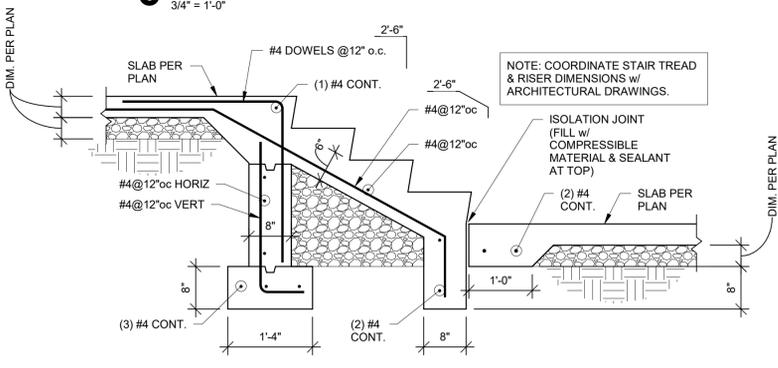
7 THICKENED SLAB DETAILS
3/4" = 1'-0"



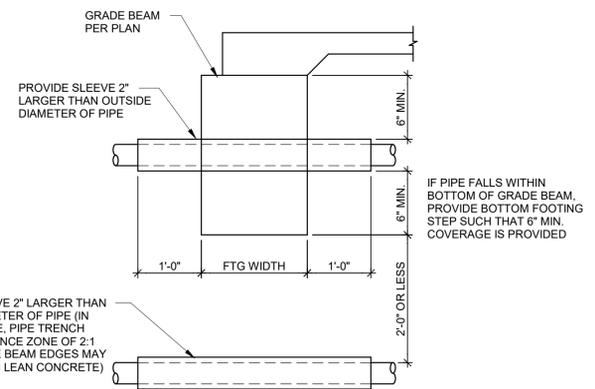
8 DETAIL
1/2" = 1'-0"



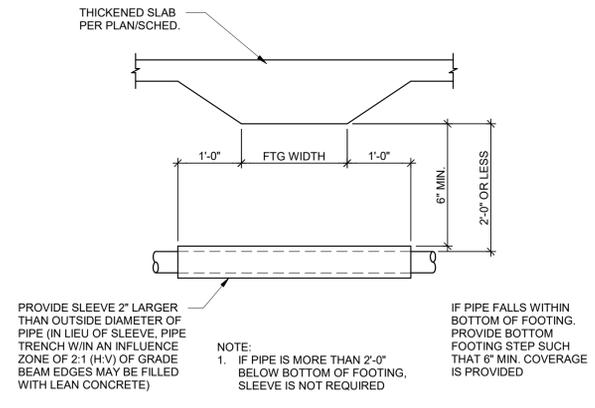
9 SECTION
3/4" = 1'-0"



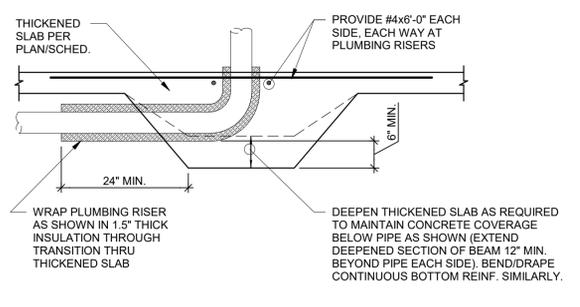
10 SECTION
3/4" = 1'-0"



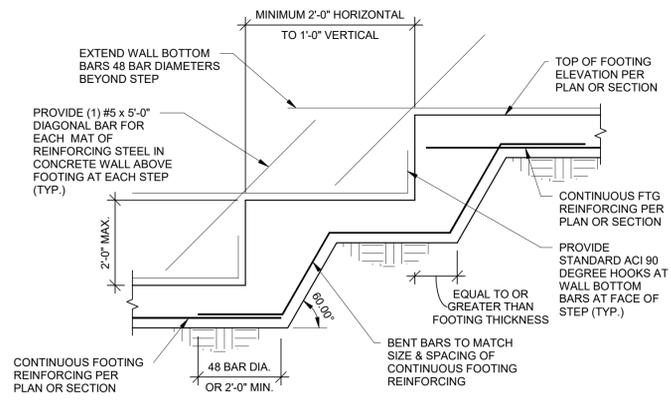
11 SECTION
3/4" = 1'-0"



12 SECTION
3/4" = 1'-0"



13 SECTION
3/4" = 1'-0"



14 TYPICAL FOOTING STEP
1/2" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
• 03/23/24 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

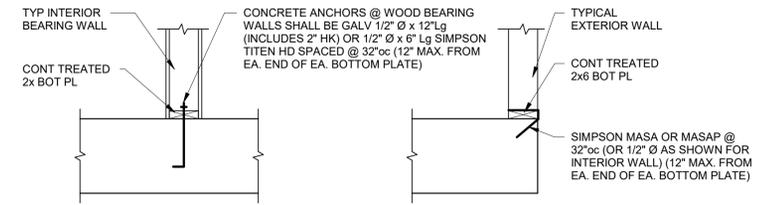
REVISIONS

JOB NO. 740623
DRAWN BY BDC
CD SET/PERMIT

SHEET NAME FOUNDATION SECTIONS

SHEET NO. **S3.00**

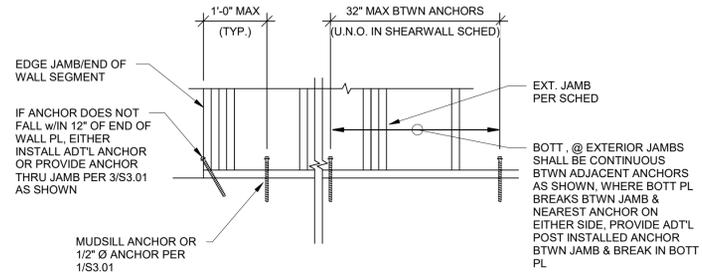
ARCH D 24' x 36'
9/20/2024 8:55:51 AM



- NOTES:
1. ALL BOTT PL's TO HAVE TWO ANCHORS MIN.
2. RE: SHEARWALL SCHED ON S0.08 FOR ANCHORS @ SHEARWALLS.
3. RE: 2/S3.01 FOR DETAIL AT JAMBS.
4. RE: 3/S3.01 FOR DETAIL AT SHORT BOTT. SEGMENTS/JAMBS (WHERE OCCURS).

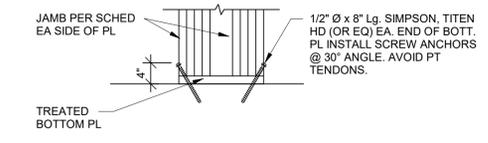
TYPICAL BOTT. PL CONNECTION TO CONCRETE

1 SECTION
3/4" = 1'-0"



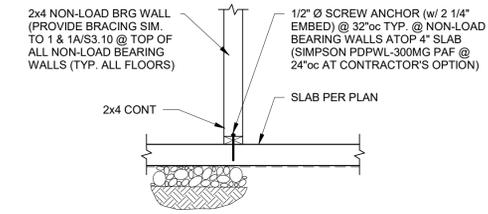
TYPICAL BOTT. PL CONNECTION TO CONCRETE AT EXTERIOR JAMBS & ENDS OF WALL

2 SECTION
3/4" = 1'-0"

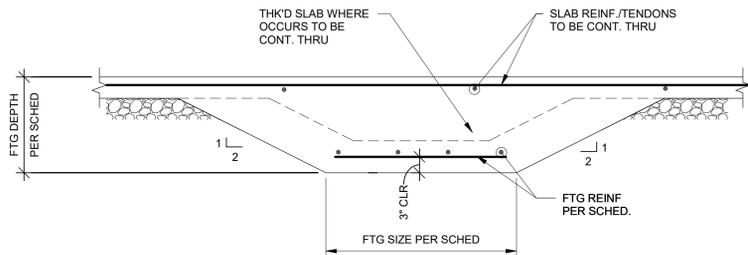


TYPICAL BOTT. PL CONNECTION TO CONCRETE AT SHORT PL SEGMENTS & JAMBS

3 SECTION
3/4" = 1'-0"

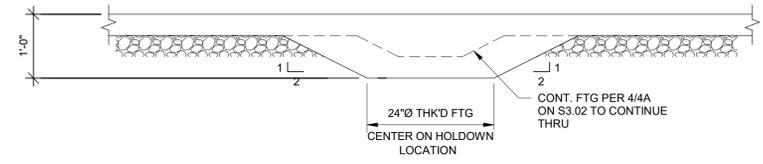


4 SECTION
3/4" = 1'-0"



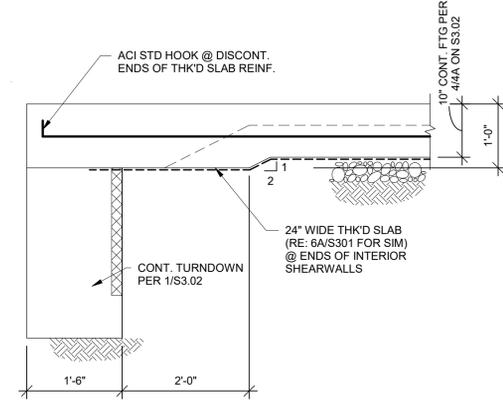
TYPICAL SPREAD FTG AT CONTINUOUS THICKENED SLAB

6 SECTION
3/4" = 1'-0"



TYPICAL THICKENED SLAB AT INTERIOR SHEARWALL HOLDDOWNS

6A SECTION
3/4" = 1'-0"



TYPICAL THICKENED SLAB AT INTERIOR SHEARWALL HOLDDOWNS

6B SECTION
3/4" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG

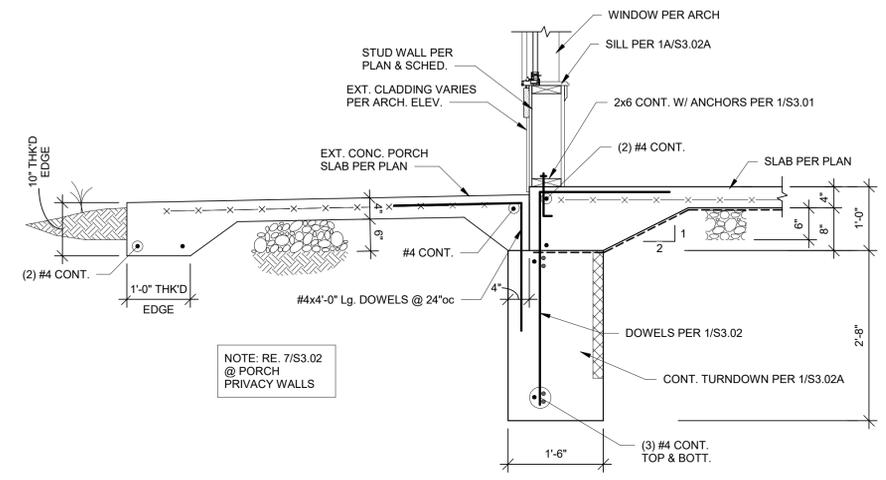
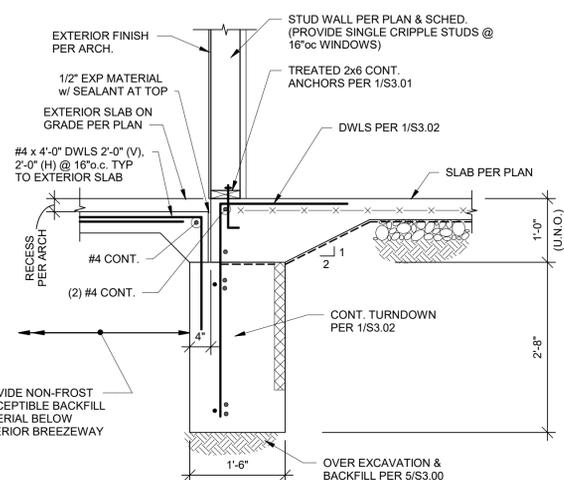
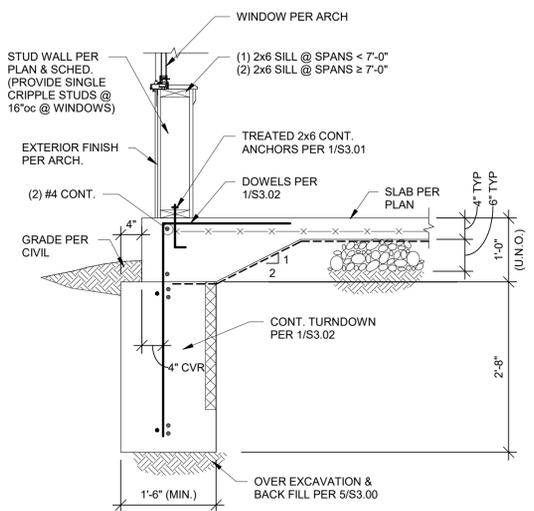
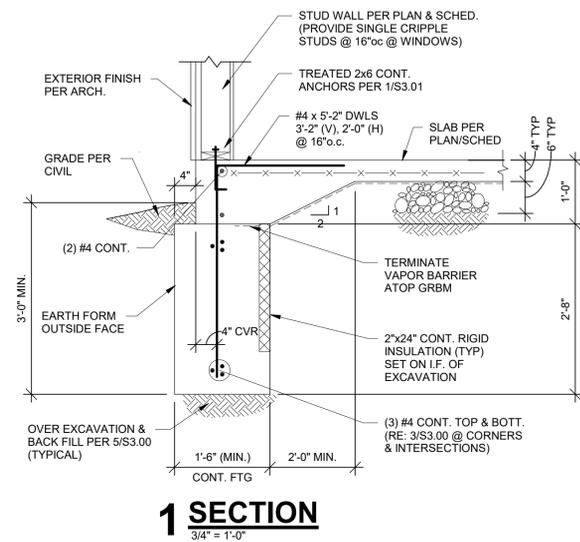
- 02/22/24 100% CD Set
- 03/22/24 50% CD Set
- 04/19/24 90% CD Set

REVISIONS

JOB NO. 740623 DATE 04.19.24
DRAWN BY BDC
CD SET/PERMIT

SHEET NAME FOUNDATION SECTIONS

SHEET NO. **S3.01**

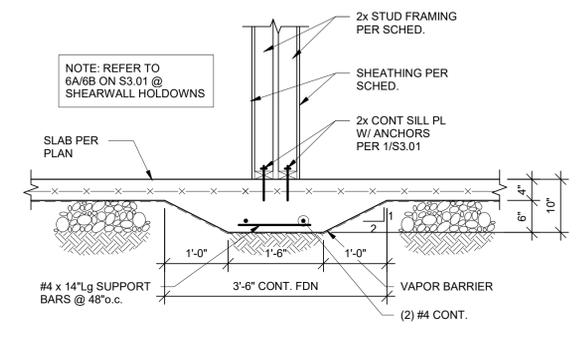
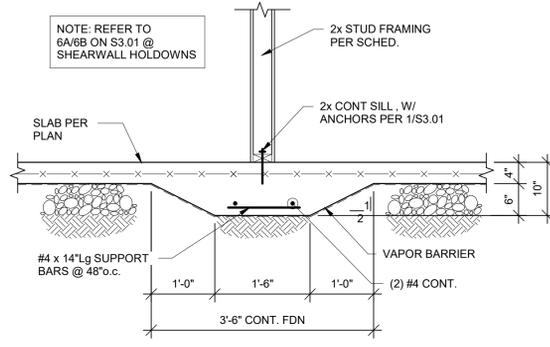
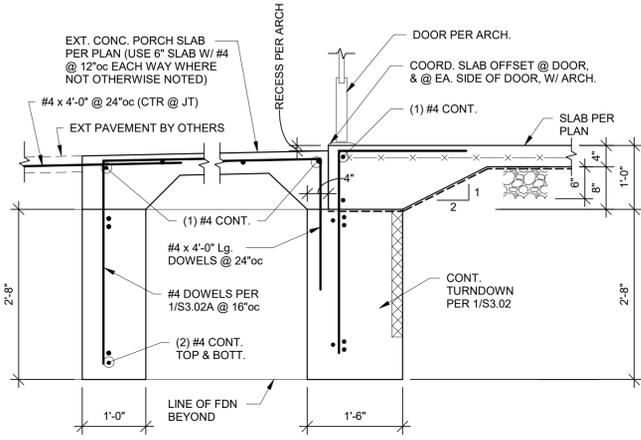


1 SECTION
3/4" = 1'-0"

1A SECTION
3/4" = 1'-0"

2 SECTION
3/4" = 1'-0"

3 SECTION
3/4" = 1'-0"



TYPICAL DOOR STOOP
(RE: S3.02 FOR DOORS AT SIDEWALK W/OUT STOOP)

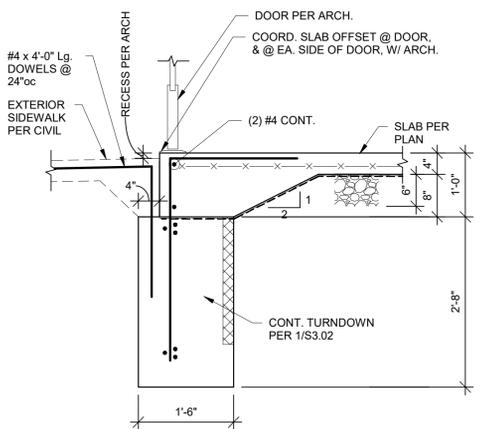
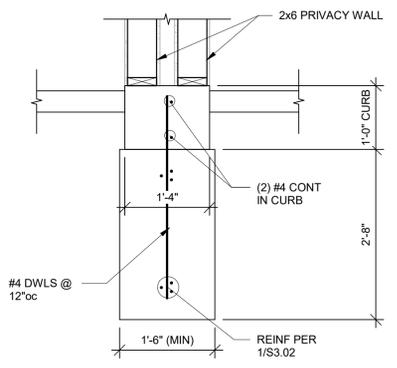
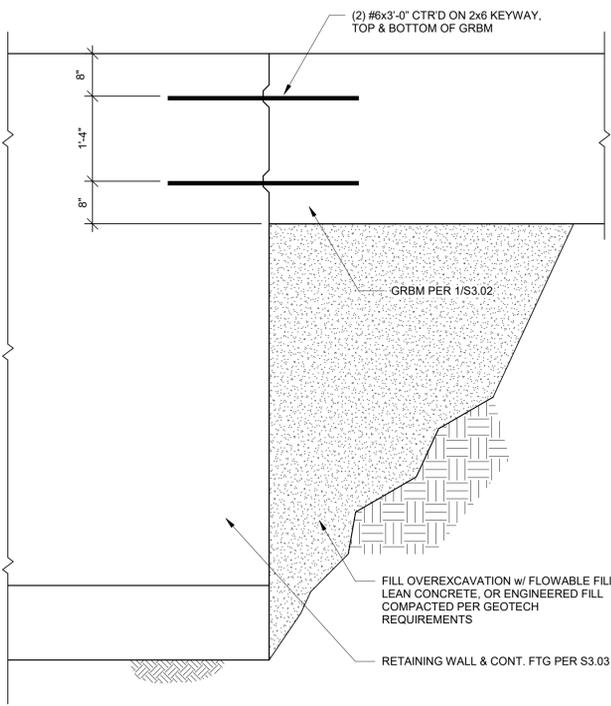
INTERIOR BRG. WALL FTG AT SINGLE WALLS

INTERIOR BRG. WALL FTG AT DBL WALLS

4 SECTION
3/4" = 1'-0"

4A SECTION
3/4" = 1'-0"

3A SECTION
3/4" = 1'-0"



7 SECTION
3/4" = 1'-0"

5 SECTION
3/4" = 1'-0"

TYPICAL GRADEBEAM TO RETAINING WALL

6 SECTION
3/4" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

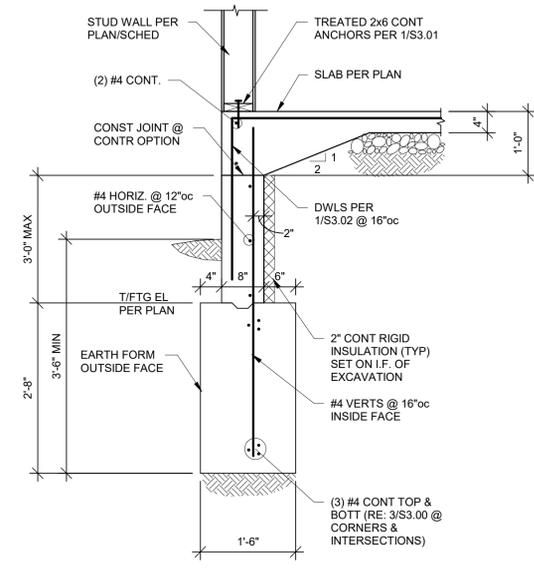
DRAWING RELEASE LOG
• 02/22/24 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS

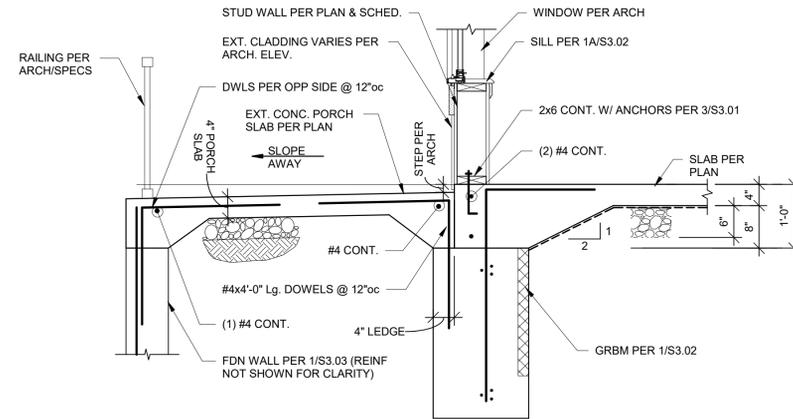
JOB NO. 740623 DATE 04.19.24
DRAWN BY BDC
CD SET/PERMIT

SHEET NAME FOUNDATION SECTIONS

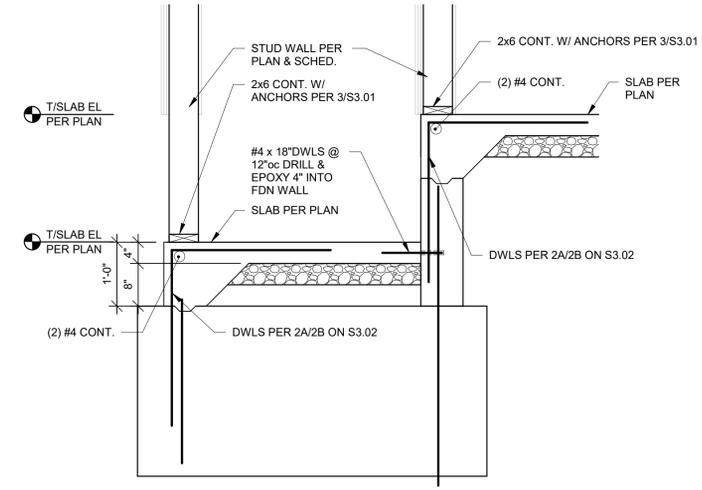
SHEET NO. **S3.02**



1 SECTION
3/4" = 1'-0"



2 SECTION
3/4" = 1'-0"



3C SECTION
3/4" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

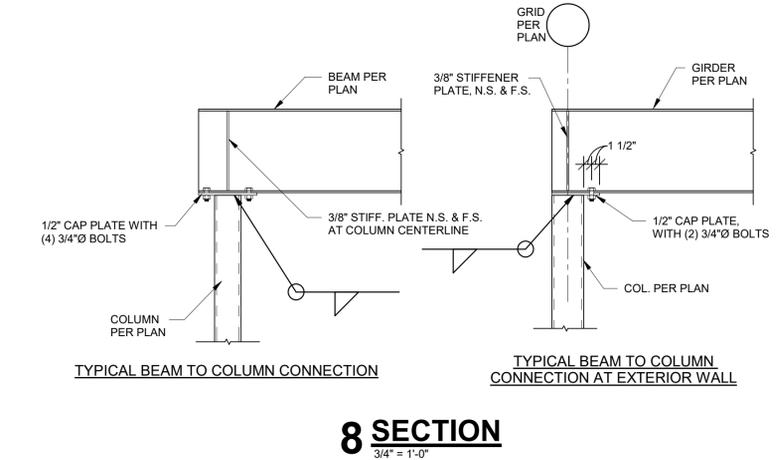
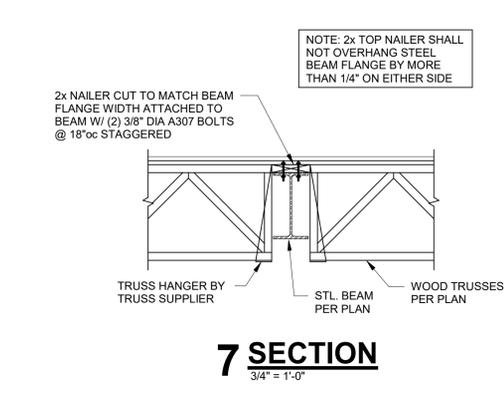
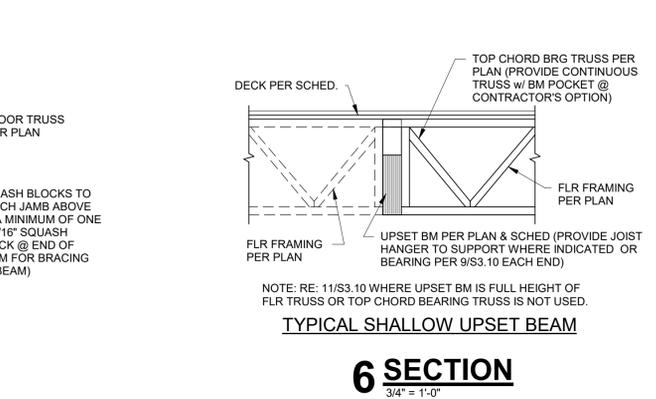
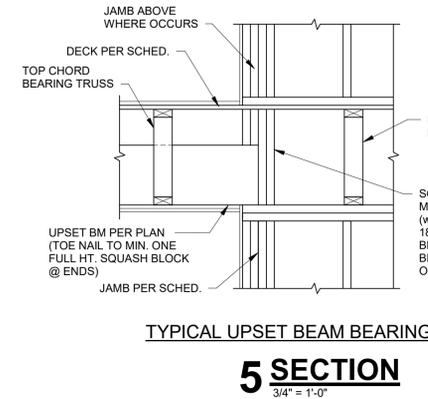
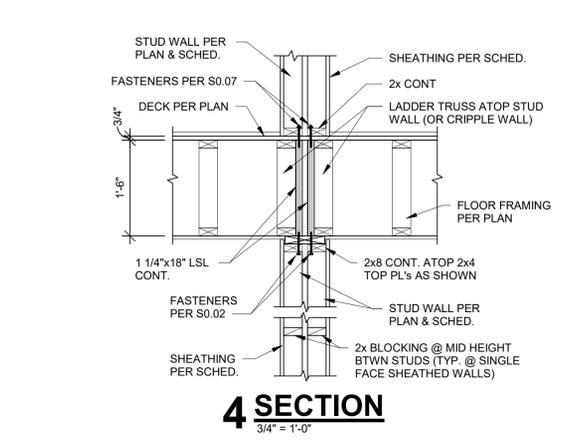
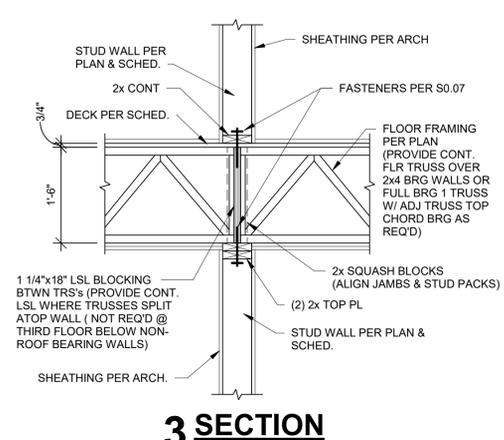
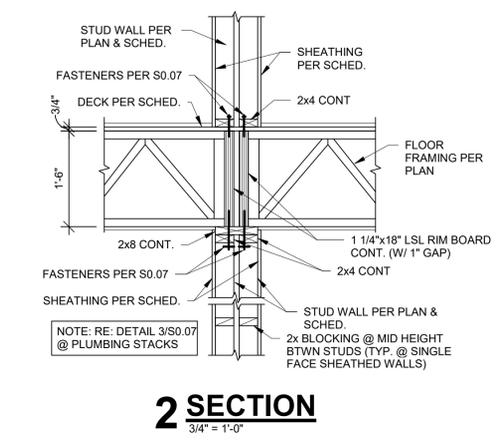
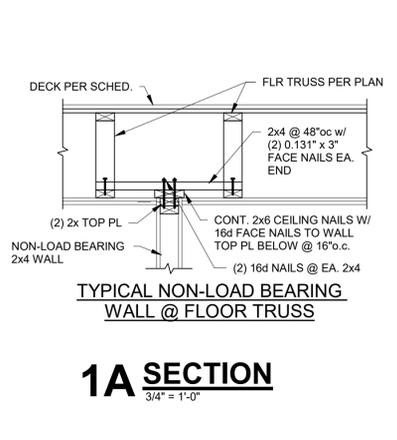
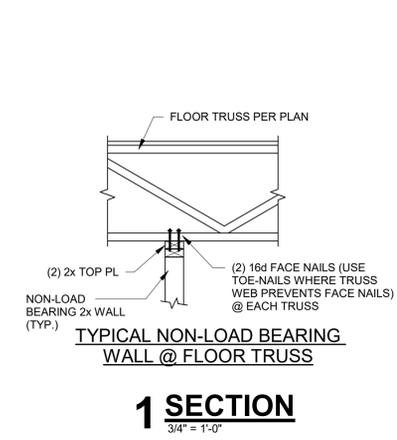
DRAWING RELEASE LOG
 • 02/22/24 100% CD Set
 • 03/22/24 50% CD Set
 • 04/19/24 90% CD Set

△ REVISIONS

JOB NO. **740623** DATE **04.19.24**
 DRAWN BY **BDC**
 CD SET/PERMIT

SHEET NAME
FOUNDATION SECTIONS

SHEET NO.
S3.03



TYPICAL BEAM TO COLUMN CONNECTION

TYPICAL BEAM TO COLUMN CONNECTION AT EXTERIOR WALL

A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
• 02/22/24 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

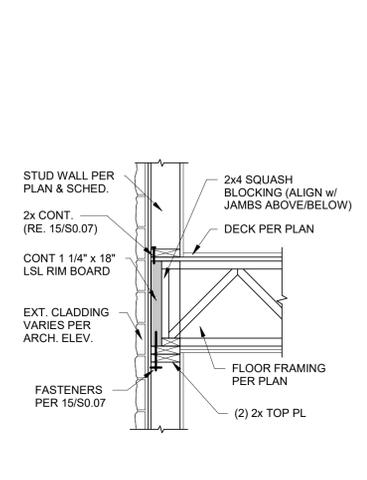
REVISIONS

JOB NO. 740623 DATE 04.19.24
DRAWN BY BDC
CD SET/PERMIT

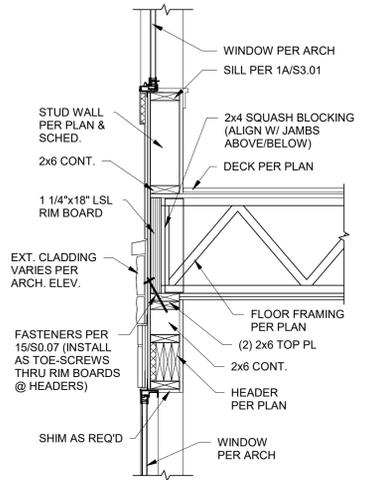
SHEET NAME WOOD FRAMING SECTIONS

SHEET NO. **S3.10**

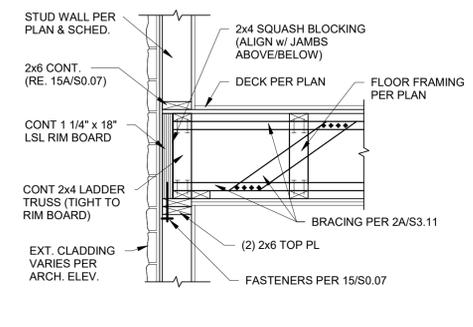
ARCH D 24' x 36'
9/20/24 8:56:01 AM



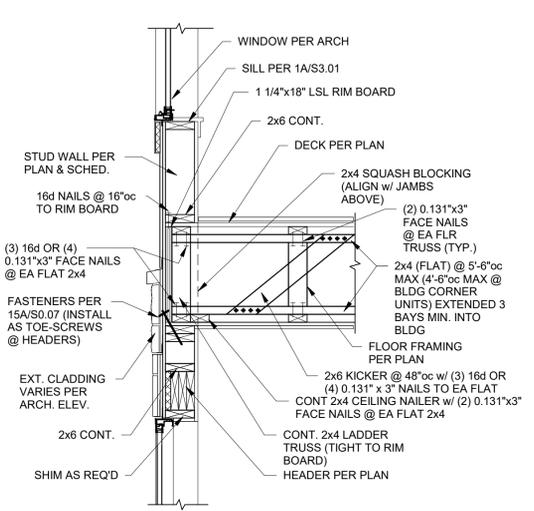
TYPICAL EXTERIOR WALL AT TRUSS BEARING
1 SECTION
3/4" = 1'-0"



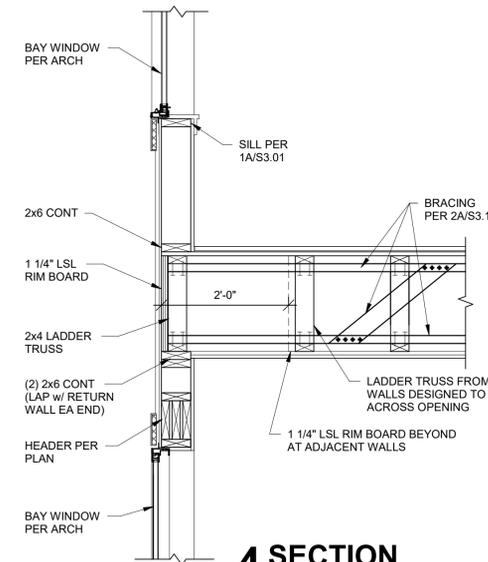
TYPICAL EXTERIOR WALL AT WINDOWS
1A SECTION
3/4" = 1'-0"



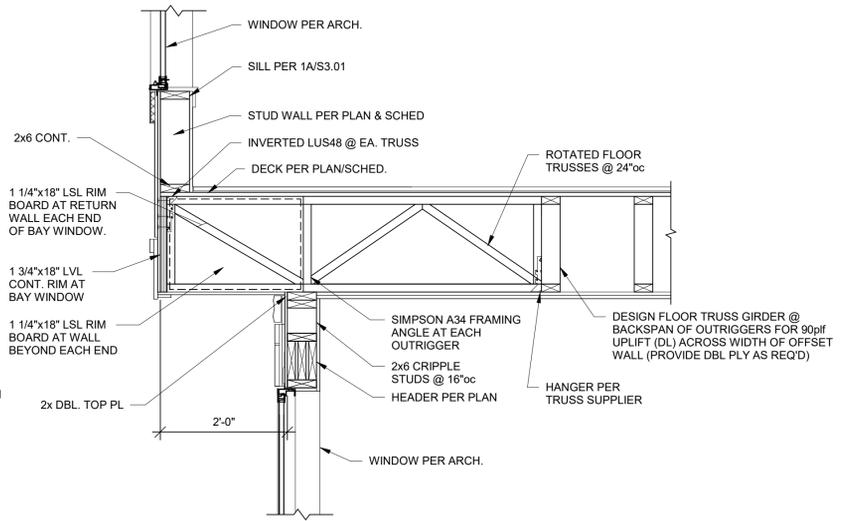
TYPICAL EXTERIOR WALL PARALLEL TO FLOOR TRUSSES AT WINDOW
2 SECTION
3/4" = 1'-0"



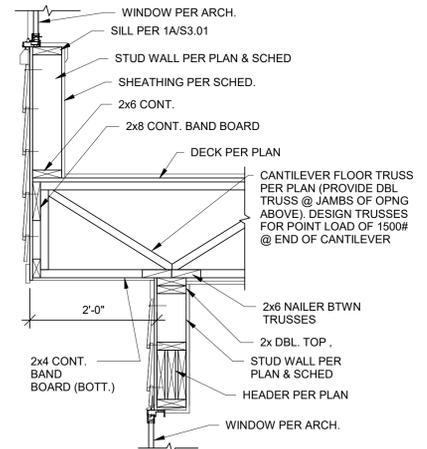
TYPICAL EXTERIOR WALL PARALLEL TO FLOOR TRUSSES AT WINDOW
2A SECTION
3/4" = 1'-0"



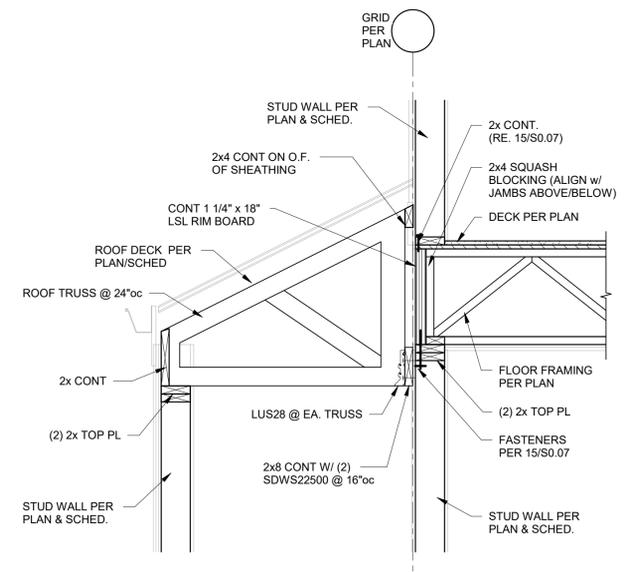
4 SECTION
3/4" = 1'-0"



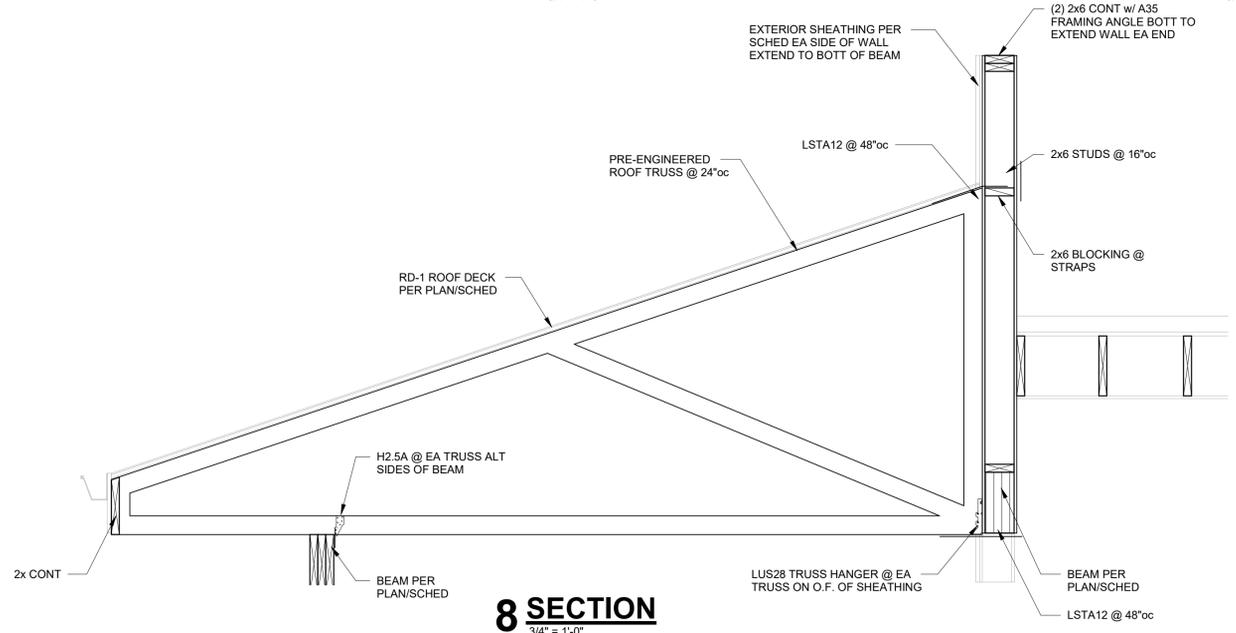
5 SECTION
3/4" = 1'-0"



6 SECTION
3/4" = 1'-0"



7 SECTION
3/4" = 1'-0"



8 SECTION
3/4" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

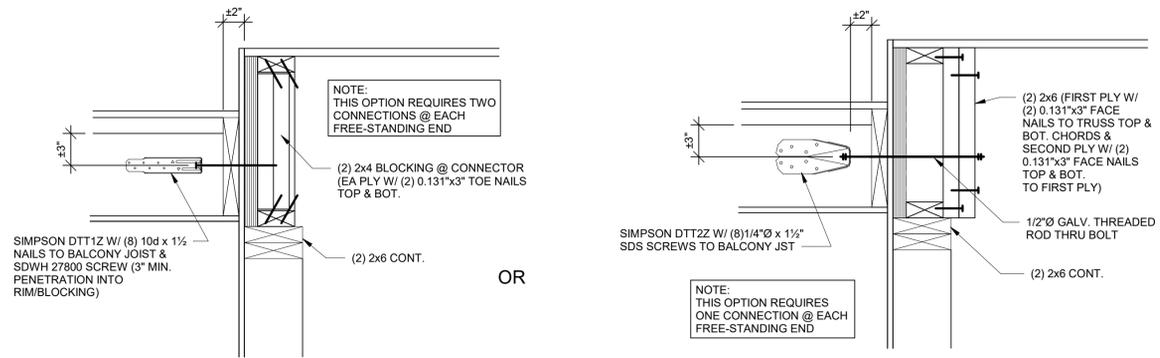
DRAWING RELEASE LOG
• 03/22/24 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS

JOB NO. 740623 DATE 04.19.24
DRAWN BY BDC
CD SET/PERMIT

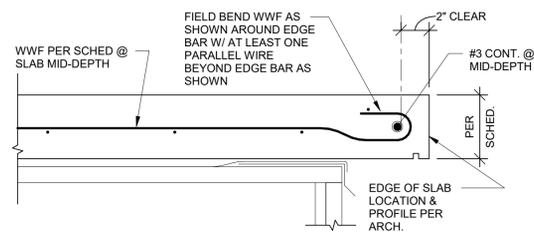
SHEET NAME
WOOD FRAMING SECTIONS

SHEET NO.
S3.11



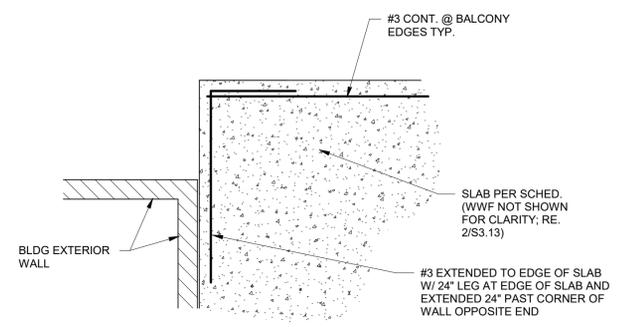
TYPICAL BALCONY TIE BACK DETAILS @ FREE-STANDING BALCONY ENDS (USE ONLY ONE OPTION)

1 SECTION
1 1/2" = 1'-0"



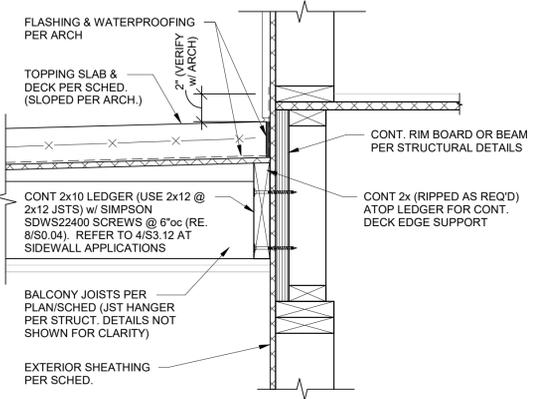
TYPICAL BALCONY SLAB EDGE DETAIL

2 SECTION
3\"/>



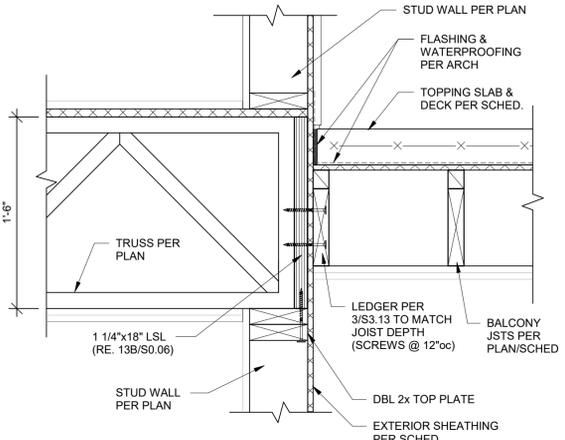
TYPICAL BALCONY CORNER REINF. DETAIL

2A SECTION
1/2\"/>



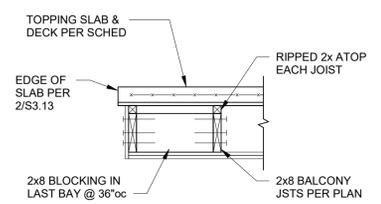
TYPICAL BALCONY LEDGER DETAIL

3 SECTION
1 1/2\"/>



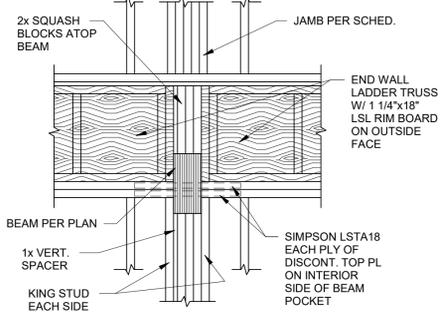
TYPICAL BALCONY SIDEWALL DETAIL

4 SECTION
1 1/2\"/>



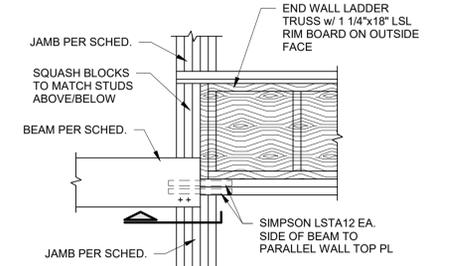
TYPICAL BALCONY EDGE PARALLEL TO JOIST SPAN

5 SECTION
3/4\"/>

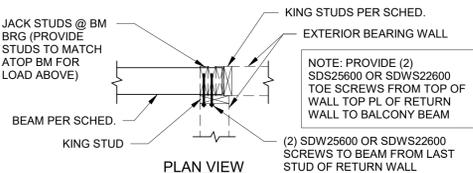


TYPICAL BEARING DETAIL AT DOWNSET BALCONY BEAMS AT INTERSECTING WALL

6 SECTION
3/4\"/>



SECTION VIEW



TYPICAL BEARING DETAIL AT DOWNSET BALCONY BEAMS AT CORNER OF WALL

6A SECTION
3/4\"/>

A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

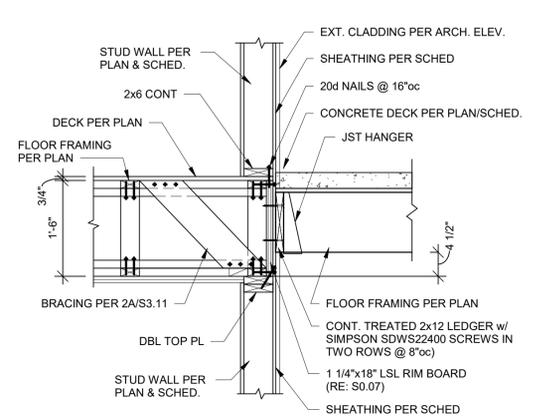
DRAWING RELEASE LOG
• 02/22/24 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS

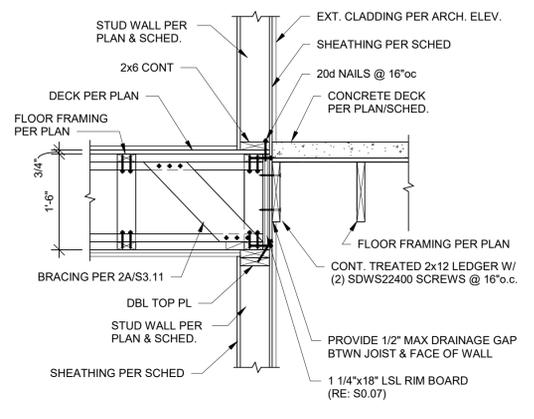
JOB NO. 740623 DATE 04.19.24
DRAWN BY Author
CD SET/PERMIT

SHEET NAME
BALCONY SECTIONS

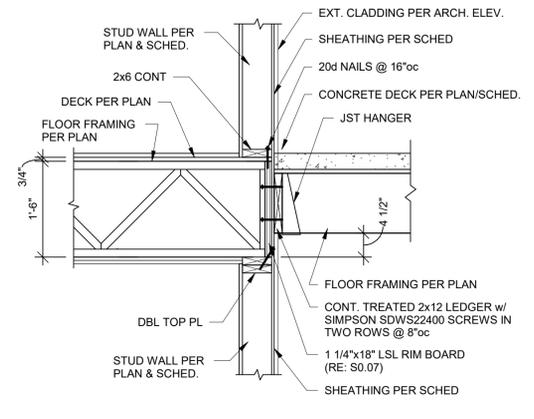
SHEET NO.
S3.12



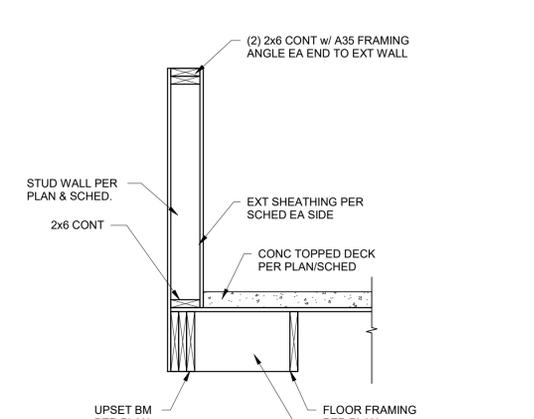
TYPICAL BREEZEWAY DETAIL
1 SECTION
3/4" = 1'-0"



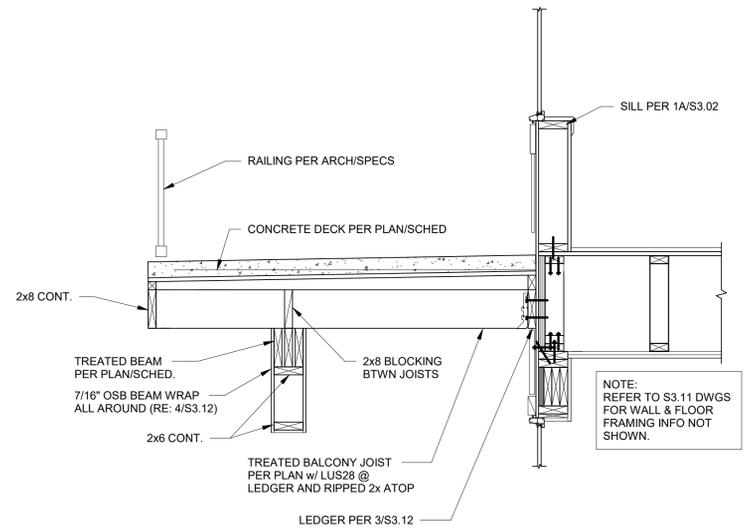
TYPICAL BREEZEWAY DETAIL
1A SECTION
3/4" = 1'-0"



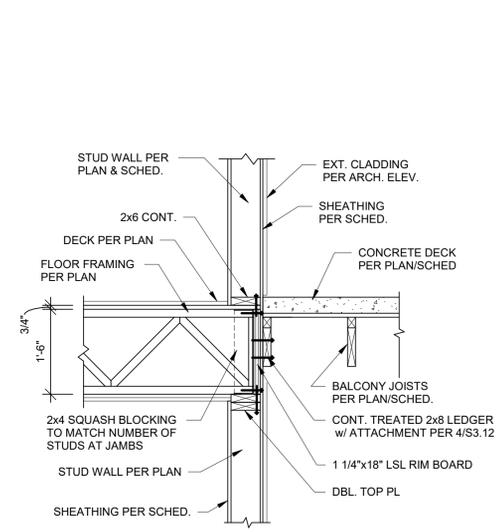
TYPICAL BREEZEWAY DETAIL
1B SECTION
3/4" = 1'-0"



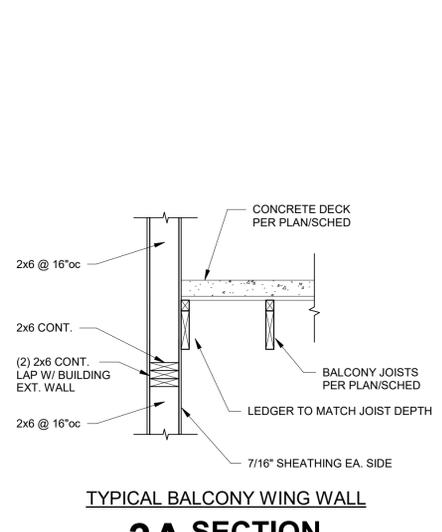
TYPICAL BREEZEWAY DETAIL
1C SECTION
3/4" = 1'-0"



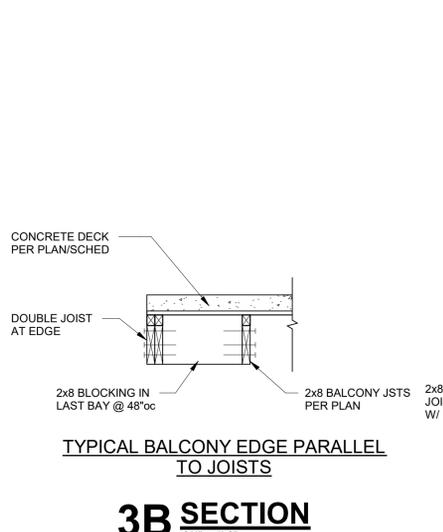
TYPICAL BREEZEWAY DETAIL
2 SECTION
3/4" = 1'-0"



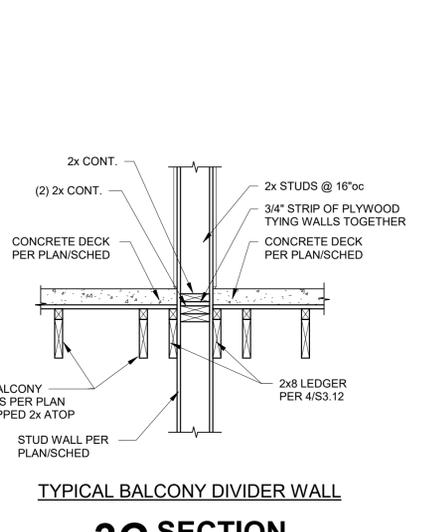
TYPICAL BREEZEWAY DETAIL
3 SECTION
3/4" = 1'-0"



TYPICAL BREEZEWAY DETAIL
3A SECTION
3/4" = 1'-0"



TYPICAL BREEZEWAY DETAIL
3B SECTION
3/4" = 1'-0"



TYPICAL BREEZEWAY DETAIL
3C SECTION
3/4" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

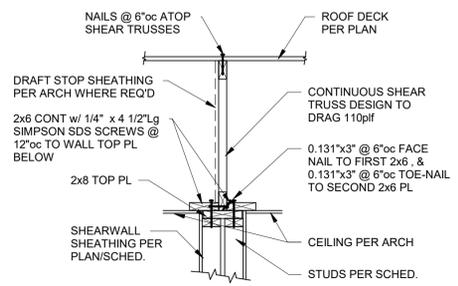
DRAWING RELEASE LOG
• 02/22/24 100% CD Set
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• 04/19/24 90% CD Set

REVISIONS

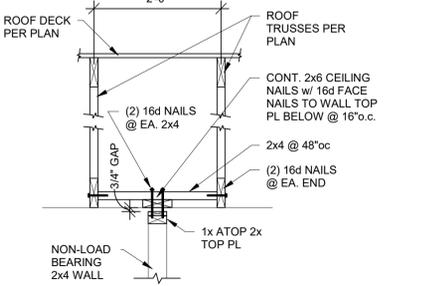
JOB NO. 740623 DATE 04.19.24
DRAWN BY BDC
CD SET/PERMIT

SHEET NAME
DECK FRAMING SECTIONS

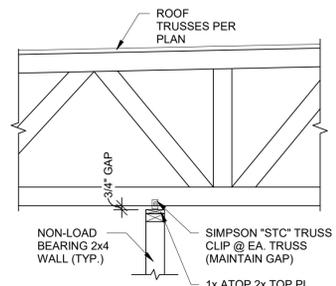
SHEET NO.
S3.13



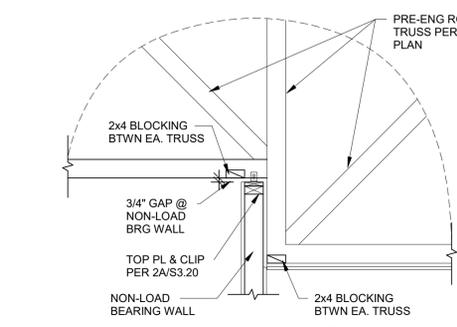
TYPICAL SHEAR TRUSS ATOP SHEARWALL
1 SECTION
3/4" = 1'-0"



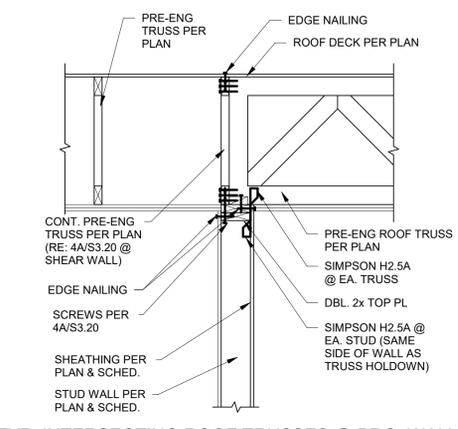
TYPICAL NON-LOAD BEARING WALL/TRUSS AT ROOF
2 SECTION
3/4" = 1'-0"



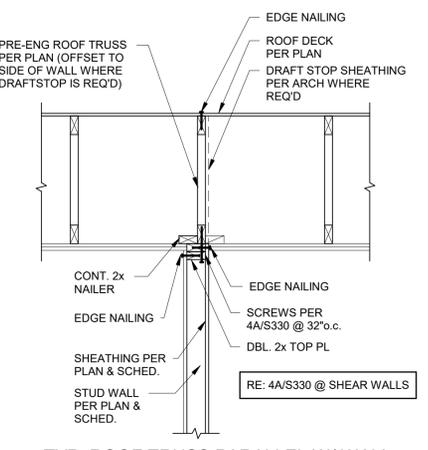
TYPICAL NON-LOAD BEARING WALL/TRUSS AT ROOF
2A SECTION
3/4" = 1'-0"



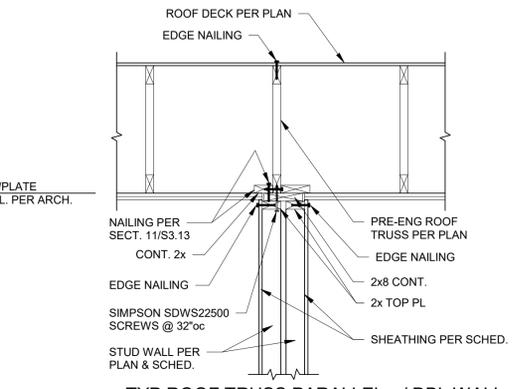
TYPICAL NON-LOAD BEARING WALL/TRUSS AT VAULTED CEILING
2B SECTION
3/4" = 1'-0"



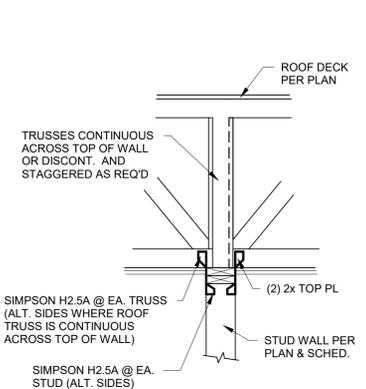
TYP. INTERSECTING ROOF TRUSSES @ BRG. WALL
3 SECTION
3/4" = 1'-0"



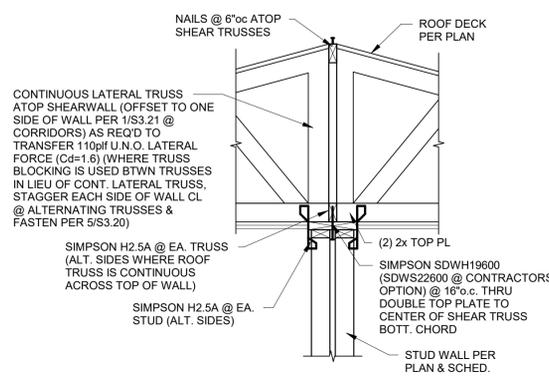
TYP. ROOF TRUSS PARALLEL W/ WALL
3A SECTION
3/4" = 1'-0"



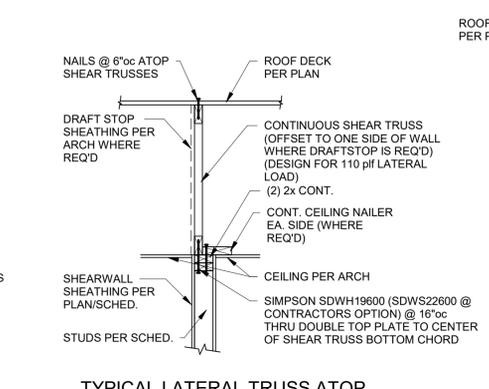
TYP ROOF TRUSS PARALLEL w/ DBL WALL
3B DETAIL
3/4" = 1'-0"



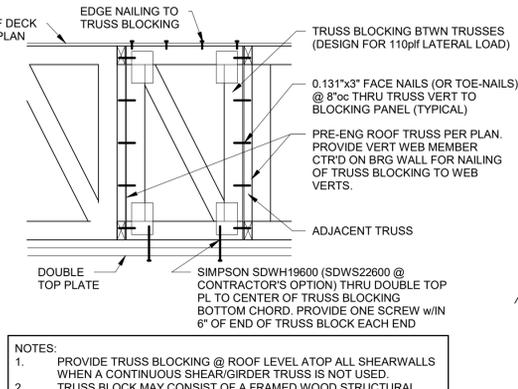
TYP ROOF TRUSS PARALLEL w/ DBL WALL
3C SECTION
3/4" = 1'-0"



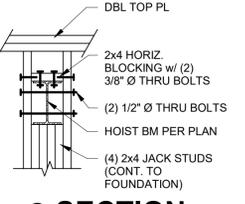
TYPICAL LATERAL TRUSS ATOP SHEARWALL PERPENDICULAR TO TRUSS SPAN
4 SECTION
3/4" = 1'-0"



TYPICAL LATERAL TRUSS ATOP PARALLEL SHEARWALL
4A SECTION
3/4" = 1'-0"

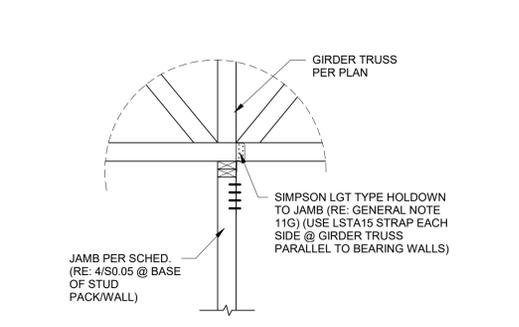


TYPICAL ROOF TRUSS BLOCKING AT SHEARWALLS
5 SECTION
3/4" = 1'-0"

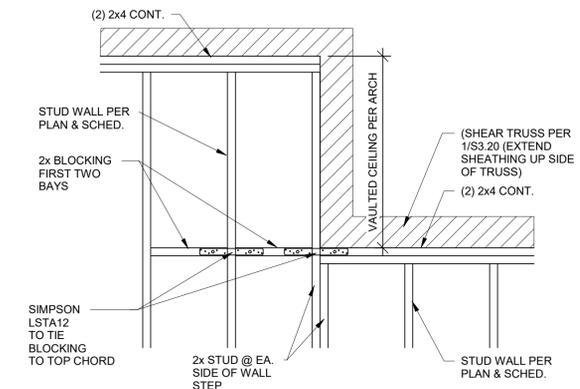


TYPICAL ROOF TRUSS BLOCKING AT SHEARWALLS
6 SECTION
3/4" = 1'-0"

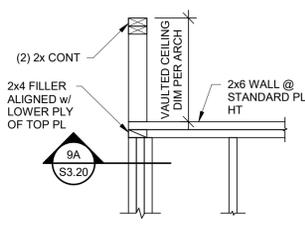
- NOTES:
1. PROVIDE TRUSS BLOCKING @ ROOF LEVEL ATOP ALL SHEARWALLS WHEN A CONTINUOUS SHEAR/GIRDER TRUSS IS NOT USED. TRUSS BLOCK MAY CONSIST OF A FRAMED WOOD STRUCTURAL PANEL OR PREFAB TRUSS BLOCK.
 2. TRUSS MANUFACTURER TO DESIGN PREFAB TRUSS BLOCK.
 - 3.



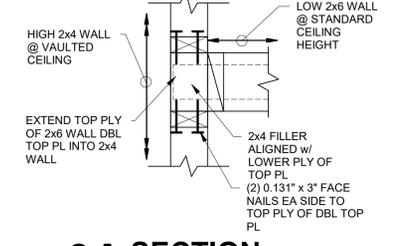
TYPICAL DETAIL AT ROOF GIRDER TRUSS BEARING
7 SECTION
3/4" = 1'-0"



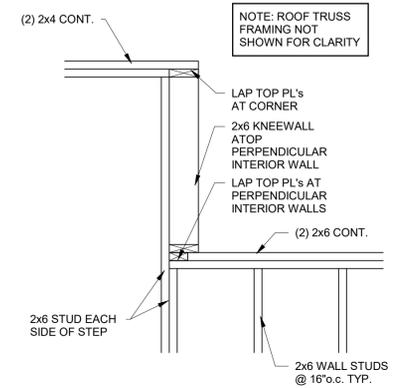
TYPICAL STEP IN PL HEIGHT AT ALIGNED EXTERIOR WALLS
8 SECTION
3/4" = 1'-0"



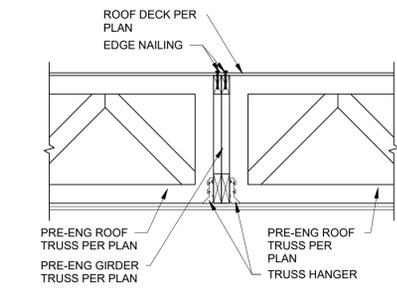
TYPICAL STEP IN PL HEIGHT AT ALIGNED EXTERIOR WALLS
9 SECTION
3/4" = 1'-0"



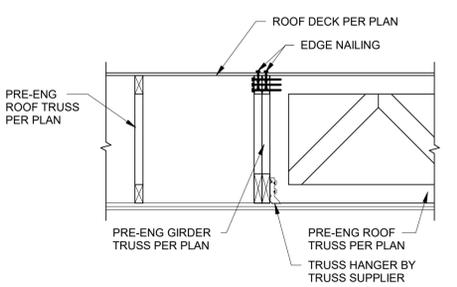
TYPICAL STEP IN PL HEIGHT AT ALIGNED EXTERIOR WALLS
9A SECTION
1 1/2" = 1'-0"



TYPICAL STEP IN PL HEIGHT AT ALIGNED EXTERIOR WALLS
10 SECTION
3/4" = 1'-0"



TYPICAL STEP IN PL HEIGHT AT ALIGNED EXTERIOR WALLS
11 SECTION
3/4" = 1'-0"



TYPICAL STEP IN PL HEIGHT AT ALIGNED EXTERIOR WALLS
11A SECTION
3/4" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

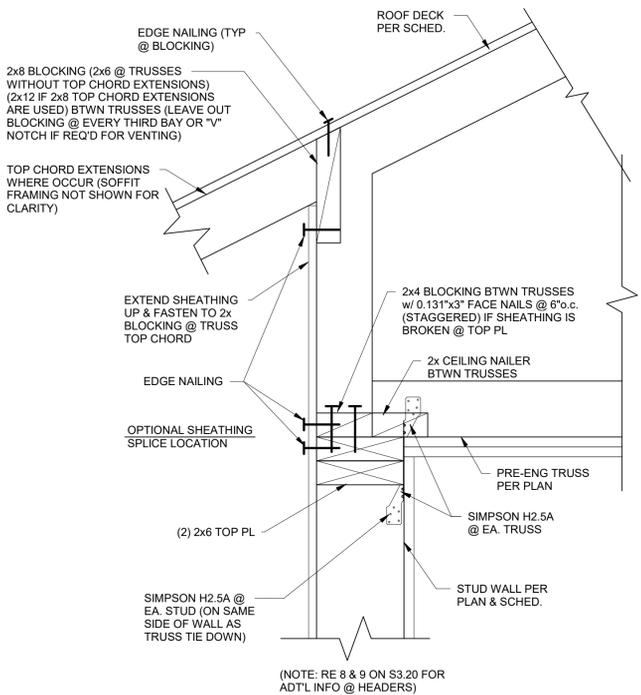
DRAWING RELEASE LOG
• 02/22/24 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS

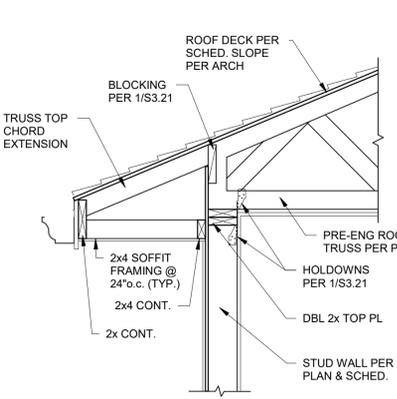
JOB NO. 740623 DATE 04.19.24
DRAWN BY BDC
CD SET/PERMIT

SHEET NAME ROOF FRAMING SECTIONS

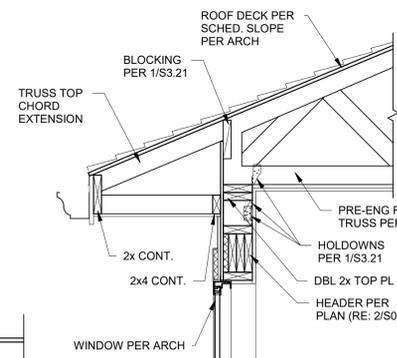
SHEET NO. **S3.20**



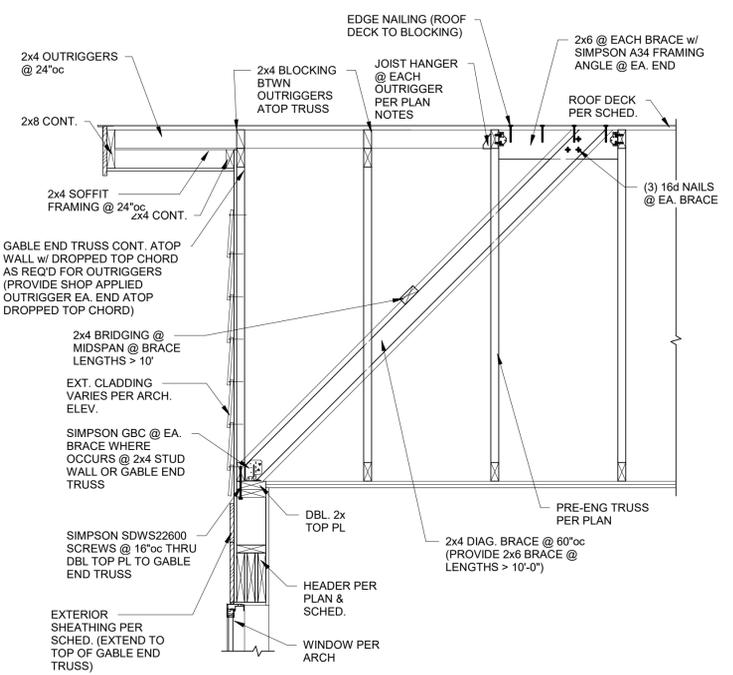
TYPICAL TRUSS BEARING @ EXTERIOR WALLS



2 SECTION
3/4" = 1'-0"

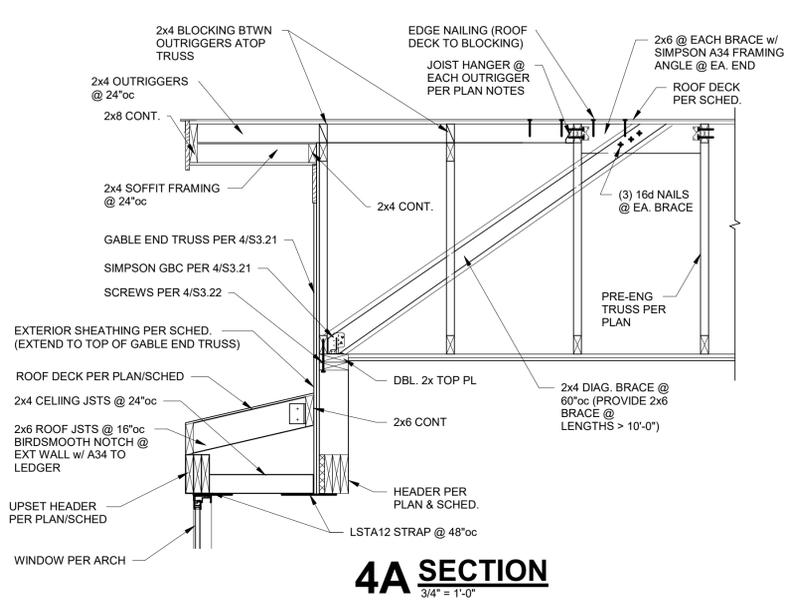


2A SECTION
3/4" = 1'-0"

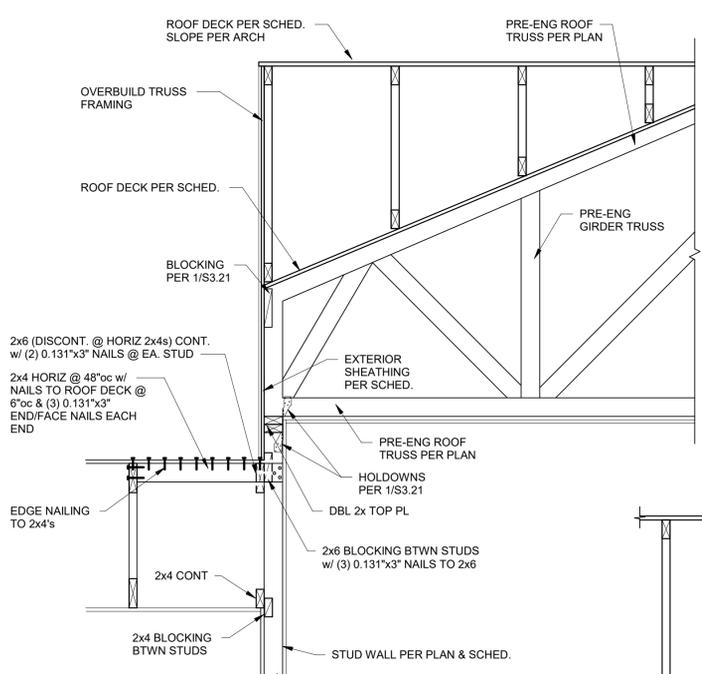


TYP. PARALLEL ROOF TRUSS FRMG. & BRACING DETAIL AT EXT. WALL

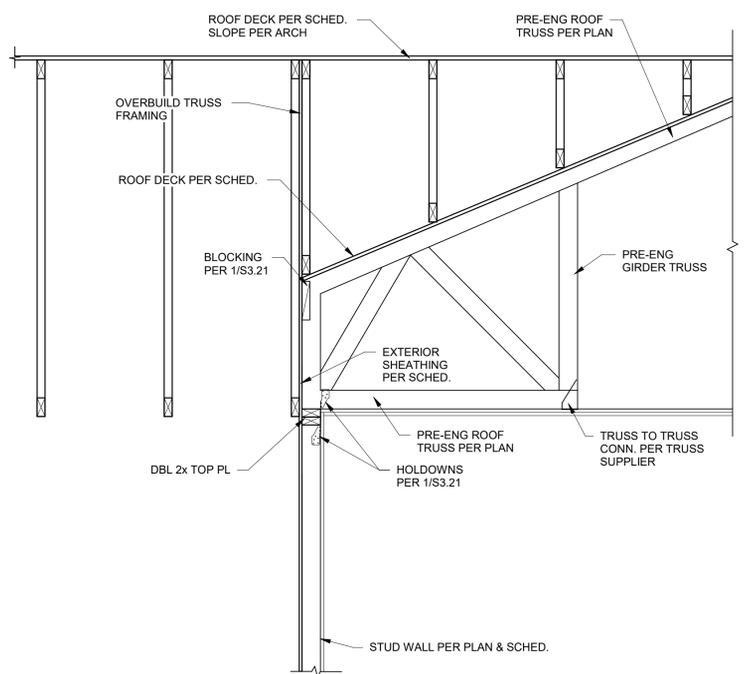
4 SECTION
3/4" = 1'-0"



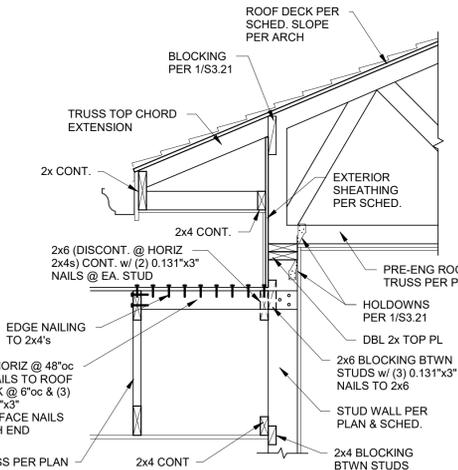
4A SECTION
3/4" = 1'-0"



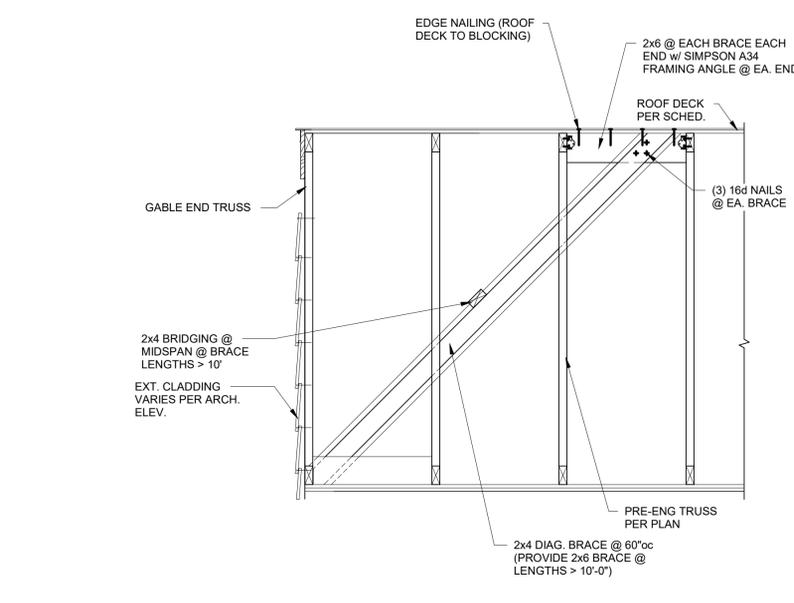
5 SECTION
3/4" = 1'-0"



5B SECTION
3/4" = 1'-0"

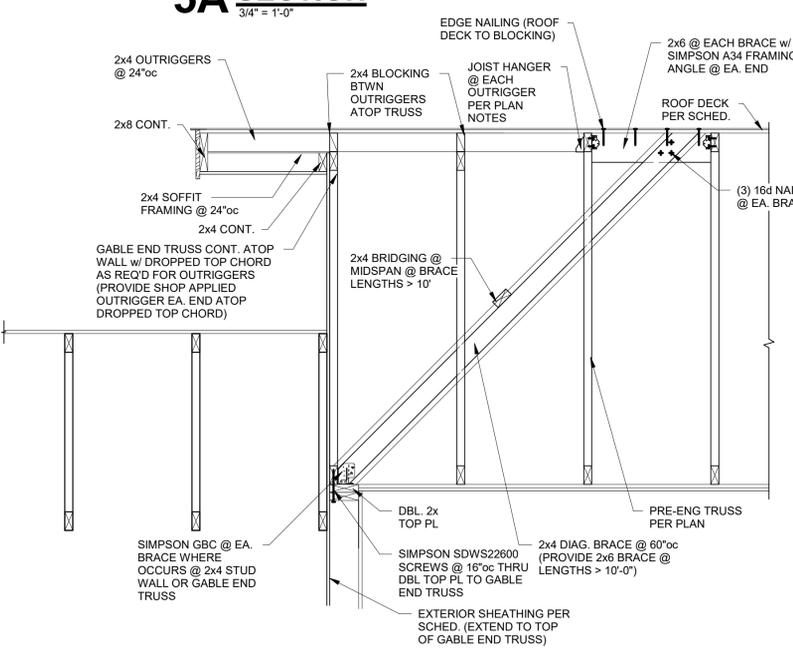


5A SECTION
3/4" = 1'-0"

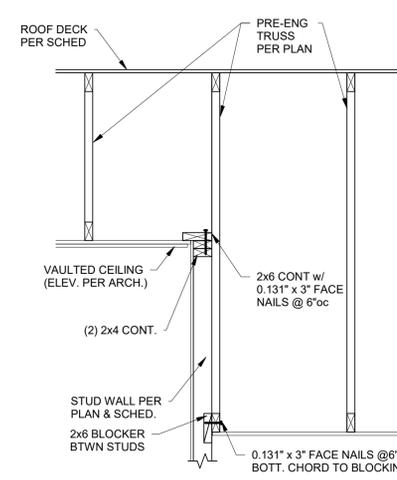


TYP. PARALLEL ROOF TRUSS FRMG. & BRACING DETAIL AT EXT. WALL

4B SECTION
3/4" = 1'-0"



5C SECTION
3/4" = 1'-0"



TYP. RAISED PLATE DETAIL

6 SECTION
3/4" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
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LEE'S SUMMIT, MO 64086

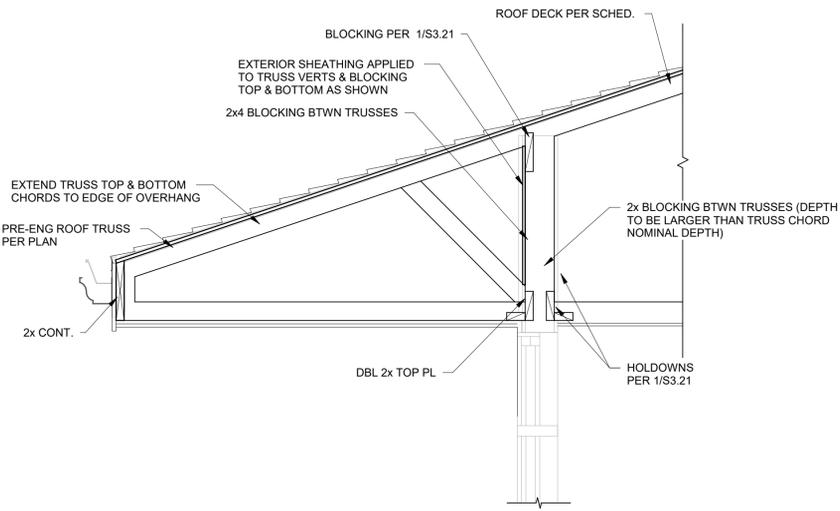
DRAWING RELEASE LOG
• 02/22/24 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS

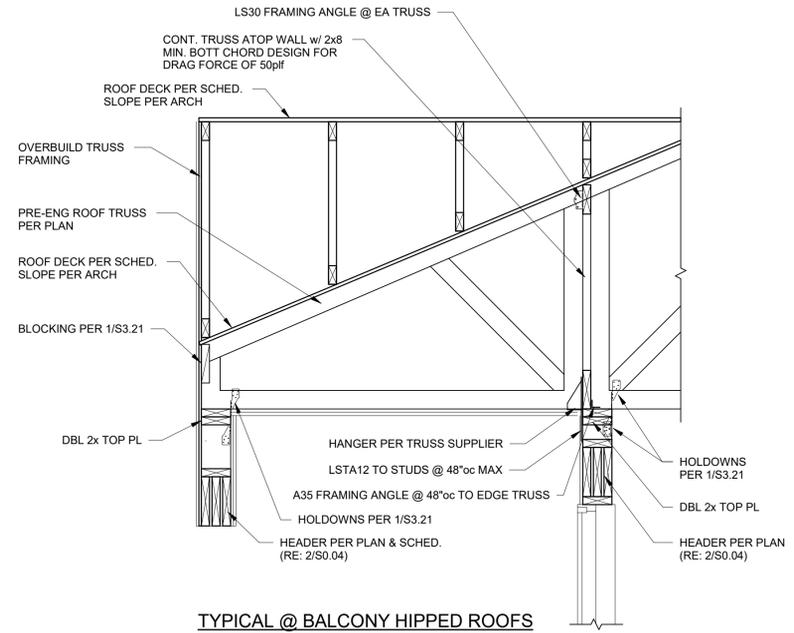
JOB NO. 740623 DATE 04.19.24
DRAWN BY BDC
CD SET/PERMIT

SHEET NAME ROOF FRAMING SECTIONS

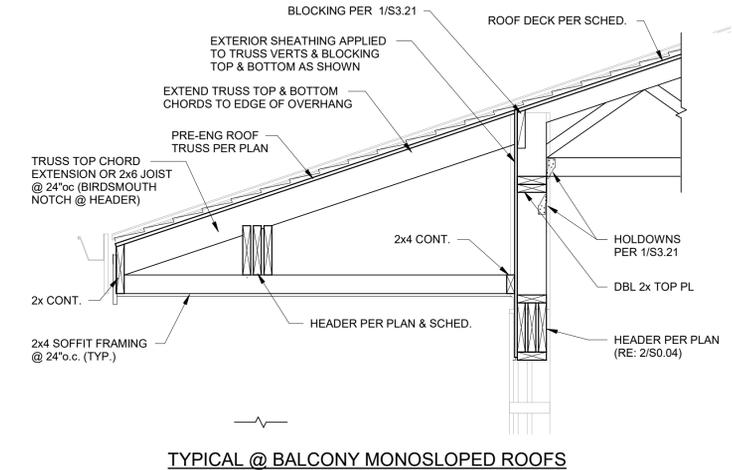
SHEET NO. S3.21



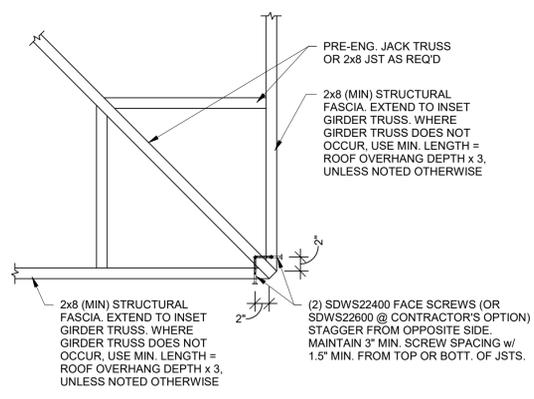
TYPICAL @ BALCONY CANTILEVERED ROOFS
1 SECTION
3/4" = 1'-0"



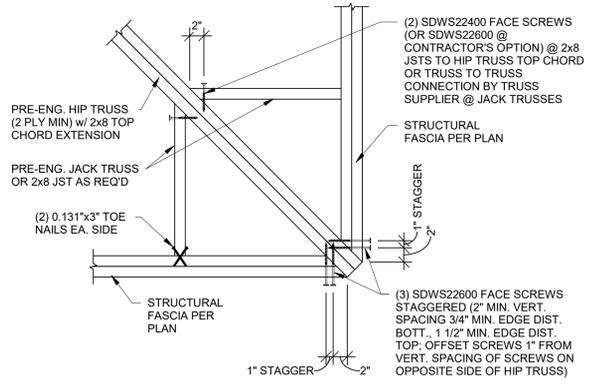
TYPICAL @ BALCONY HIPPED ROOFS
1A SECTION
3/4" = 1'-0"



TYPICAL @ BALCONY MONOSLOPED ROOFS
1B SECTION
3/4" = 1'-0"



TYPICAL STRUCTURAL FASCIA AT HIPPS
2 SECTION
1" = 1'-0"



TYPICAL STRUCTURAL FASCIA AT HIP WHERE INDICATED
2A SECTION
1" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

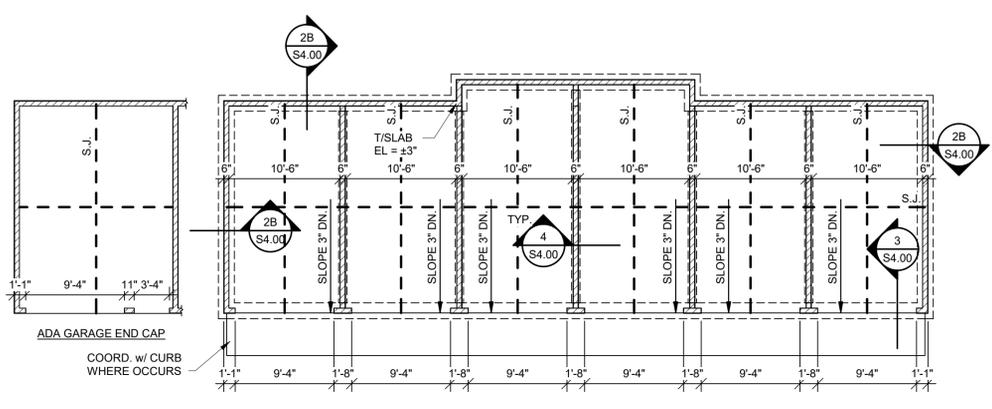
DRAWING RELEASE LOG
• 02/22/24 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS

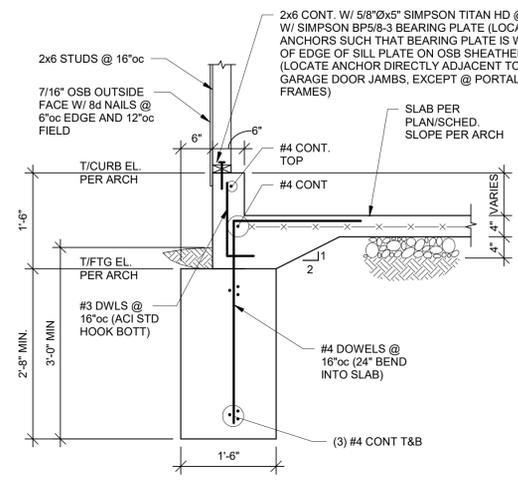
JOB NO. 740623 DATE 04.19.24
DRAWN BY BDC
CD SET/PERMIT

SHEET NAME
ROOF FRAMING SECTIONS

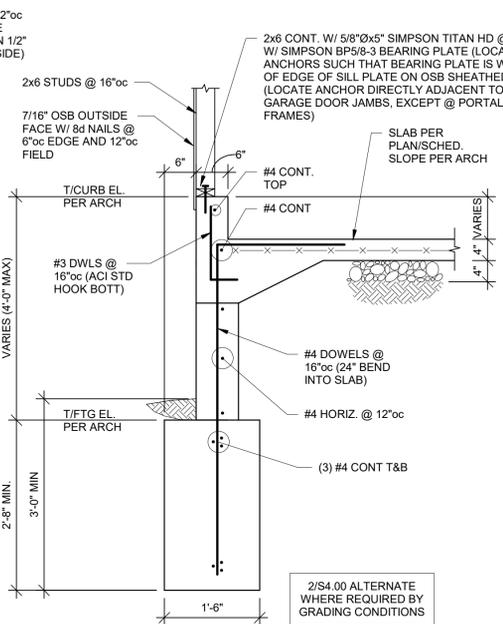
SHEET NO.
S3.22



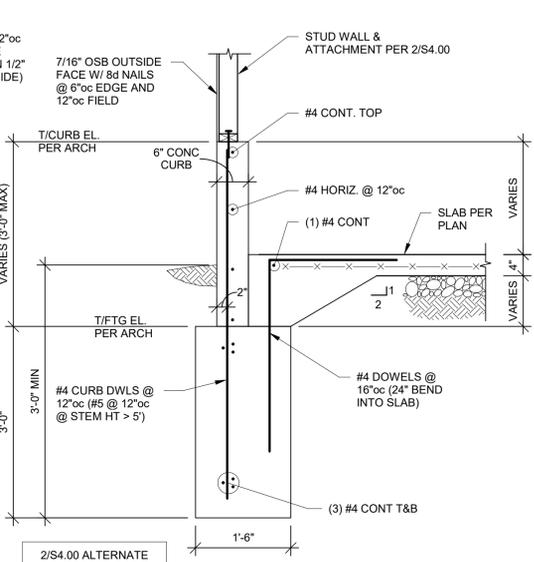
1 DETACHED GARAGE SLAB PLAN
1/8" = 1'-0"



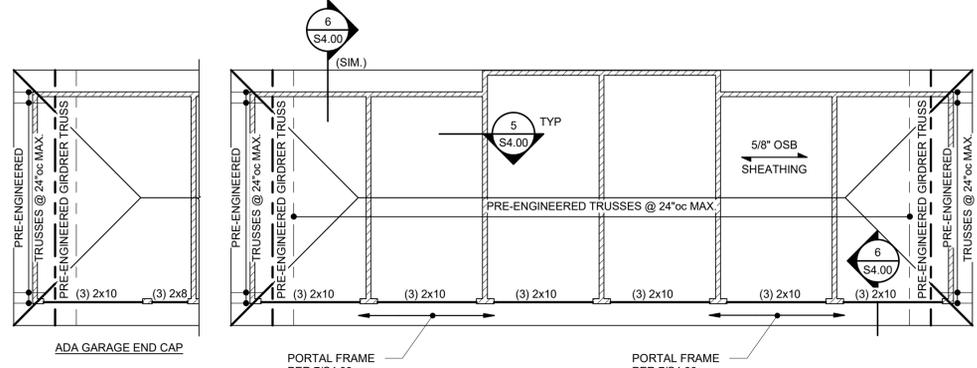
2 SECTION
3/4" = 1'-0"



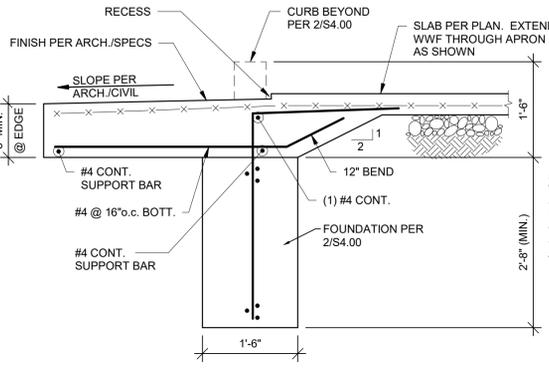
2A SECTION
3/4" = 1'-0"



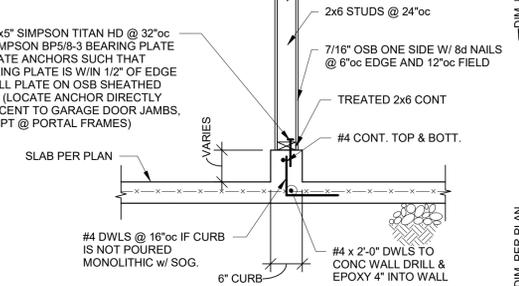
2B SECTION
3/4" = 1'-0"



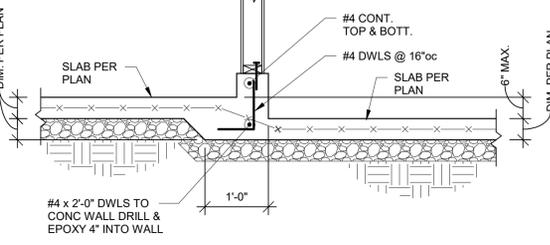
1A DETACHED GARAGE ROOF FRAMING PLAN
1/8" = 1'-0"



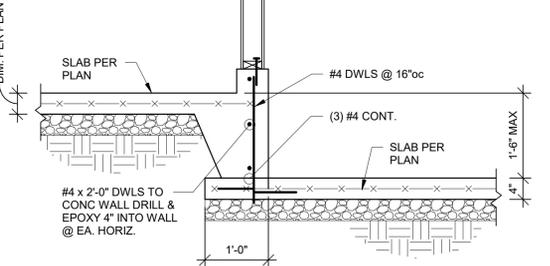
3 SECTION
3/4" = 1'-0"



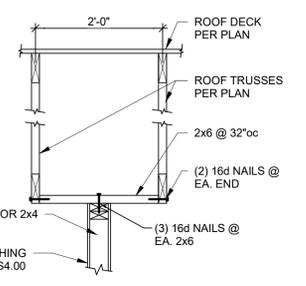
4 SECTION
3/4" = 1'-0"



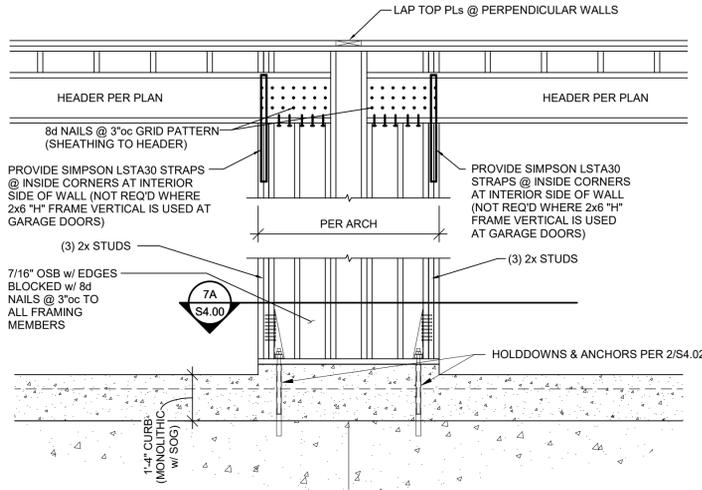
TYPICAL CONC. CURB AT SLAB STEP



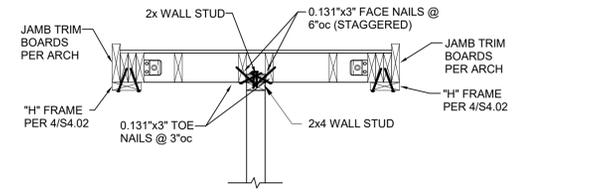
4A SECTION
3/4" = 1'-0"



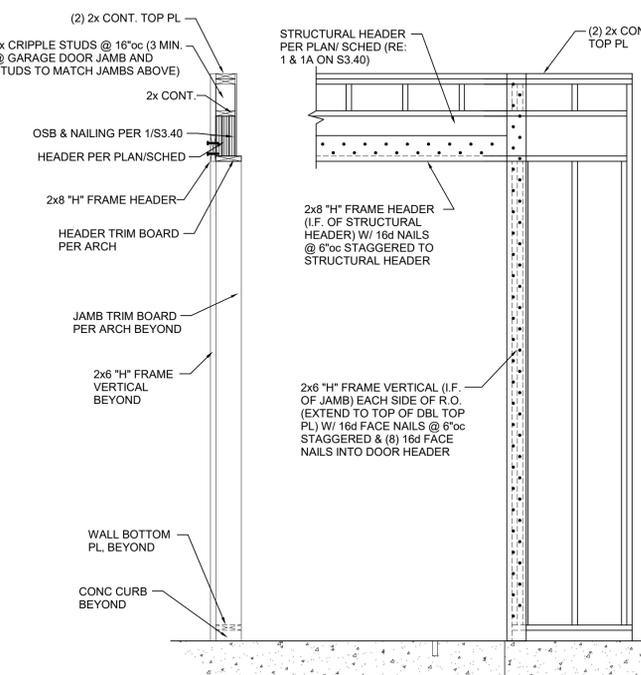
5 SECTION
3/4" = 1'-0"



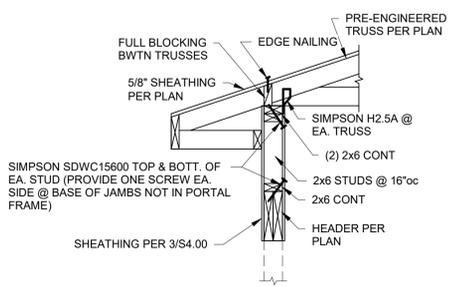
7 GARAGE PORTAL FRAMING DETAIL
1/2" = 1'-0"



7A SECTION
3/4" = 1'-0"



8 TYPICAL GARAGE DOOR 'H' FRAME DETAIL
1/2" = 1'-0"



6 SECTION
3/4" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

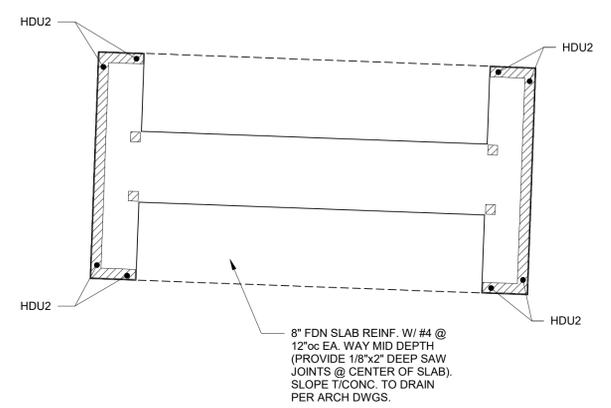
DRAWING RELEASE LOG
• 03/23/24 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS

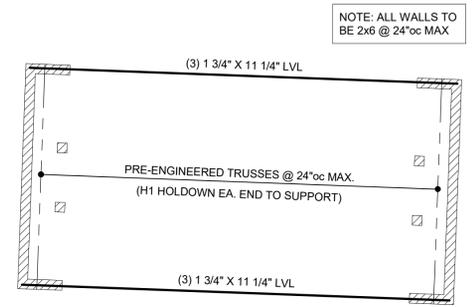
JOB NO. 740623 DATE 04.19.24
DRAWN BY Author
CD SET/PERMIT

SHEET NAME GARAGE PLANS & DETAILS

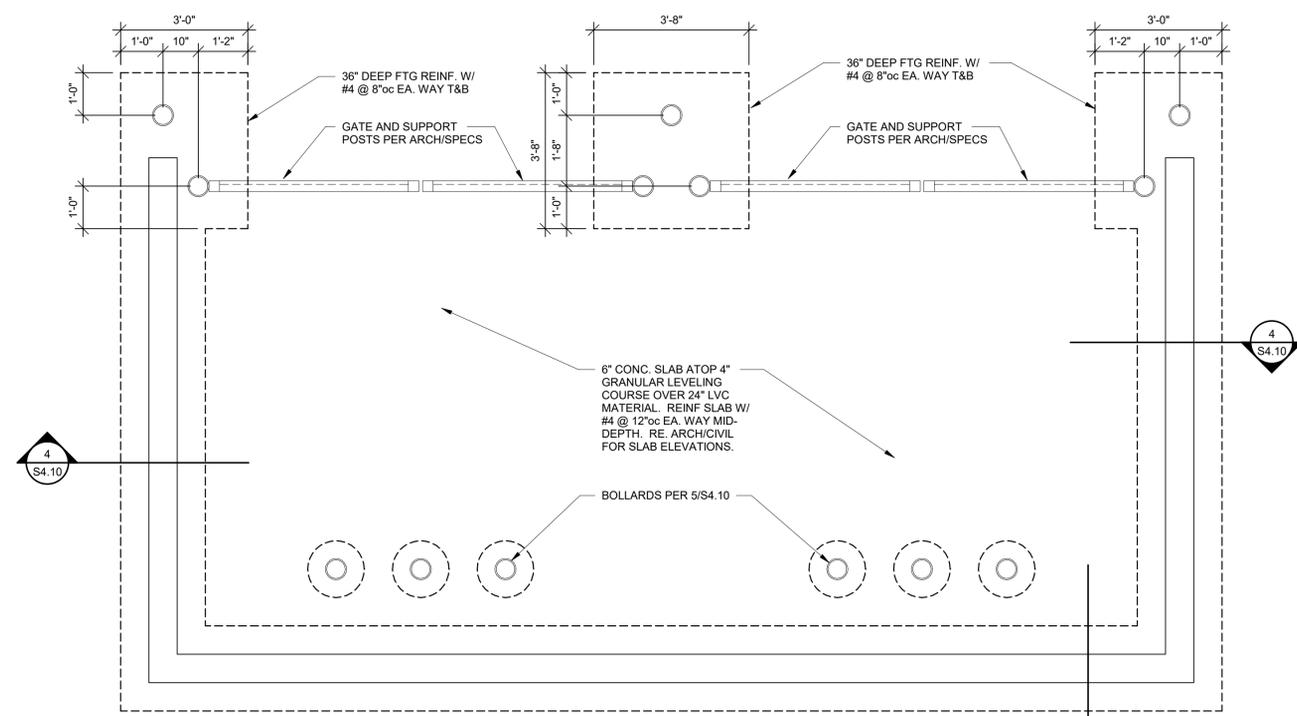
SHEET NO. **S4.00**



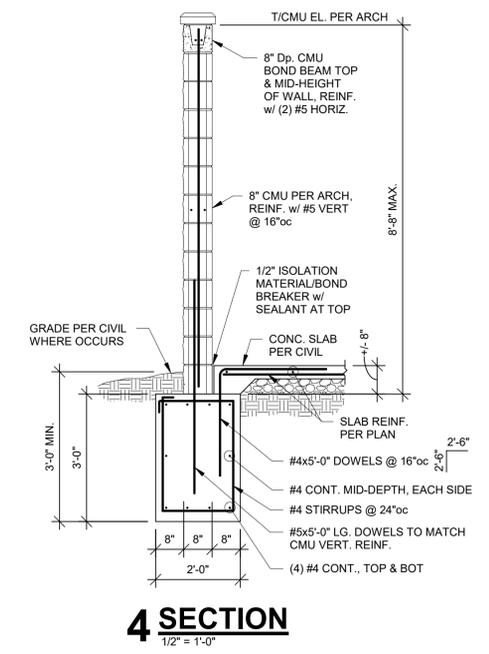
1 KIOSK FOUNDATION PLAN
1/4" = 1'-0"



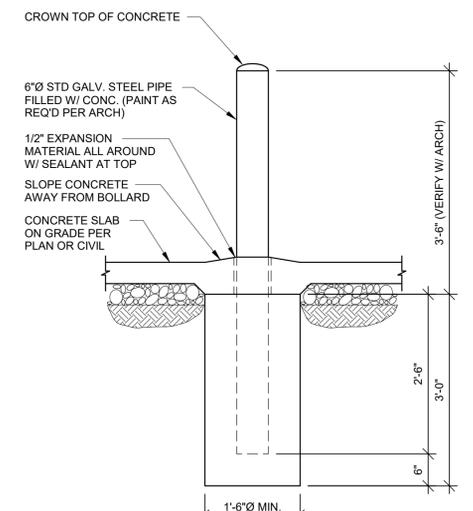
2 KIOSK ROOF PLAN
1/4" = 1'-0"



3 TRASH ENCLOSURE PLAN
1/2" = 1'-0"



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



TYPICAL PIPE BOLLARD
5 SECTION
3/4" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086
DRAWING RELEASE LOG
• 02/22/24 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS

JOB NO. 740623 DATE 04.19.24
DRAWN BY Author
CD SET/PERMIT

SHEET NAME
KIOSK PLANS & DETAILS

SHEET NO.
S4.10

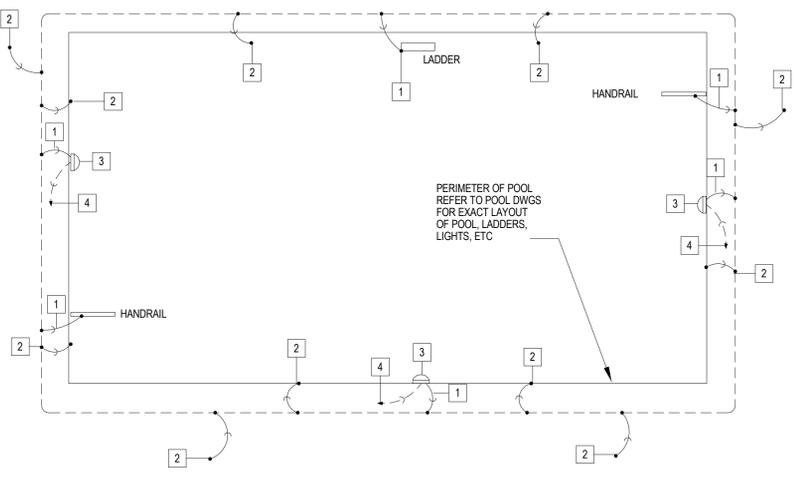


KEYNOTES

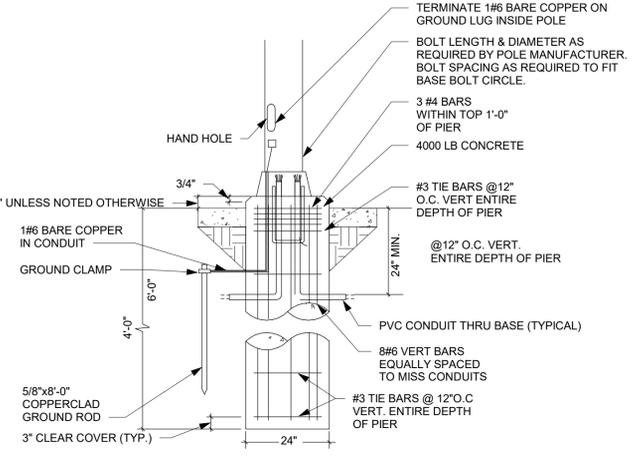
- PROPOSED EVERY PAD-MOUNTED TRANSFORMER LOCATION. COORDINATE FINAL PLACEMENT WITH EVERY DESIGN REPRESENTATIVE. PROVIDE CONCRETE PAD PER EVERY STANDARDS. REFERENCE RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- GARAGE LOAD CENTER FED FROM HOUSE PANEL IN BUILDING 1. REFER TO GARAGE PLANS AND BUILDING RISER DIAGRAMS FOR MORE INFORMATION.
- GARAGE LOAD CENTER FED FROM HOUSE PANEL IN BUILDING 2. REFER TO GARAGE PLANS AND BUILDING RISER DIAGRAMS FOR MORE INFORMATION.
- GARAGE LOAD CENTER FED FROM HOUSE PANEL IN BUILDING 3. REFER TO GARAGE PLANS AND BUILDING RISER DIAGRAMS FOR MORE INFORMATION.
- GARAGE LOAD CENTER FED FROM HOUSE PANEL IN BUILDING 4. REFER TO GARAGE PLANS AND BUILDING RISER DIAGRAMS FOR MORE INFORMATION.
- GARAGE LOAD CENTER FED FROM HOUSE PANEL IN BUILDING 5. REFER TO GARAGE PLANS AND BUILDING RISER DIAGRAMS FOR MORE INFORMATION.
- LOCATION OF BUILDING MOUNTED ELECTRICAL SERVICE ENTRANCE. REFER TO APPLICABLE BUILDING RISER DIAGRAM.
- PROVIDE 2" CONDUIT WITH PULL STRING BETWEEN ALL BUILDINGS AND ROUTED TO MASTER FIRE ALARM CONTROL PANEL IN BUILDING WITH CLUBHOUSE FOR SPRINKLER ALARM PANEL SUPERVISION.
- ROUTE CIRCUIT TO HOUSE PANEL IN BUILDING #1. PROVIDE PHOTOCELL ON NORTH SIDE OF BUILDING #1 FOR AUTOMATIC CONTROL.
- ROUTE CIRCUIT TO HOUSE PANEL IN BUILDING #2. PROVIDE PHOTOCELL ON NORTH SIDE OF BUILDING #2 FOR AUTOMATIC CONTROL.
- ROUTE CIRCUIT TO HOUSE PANEL IN BUILDING #3. PROVIDE PHOTOCELL ON NORTH SIDE OF BUILDING #3 FOR AUTOMATIC CONTROL.
- ROUTE CIRCUIT TO HOUSE PANEL IN BUILDING #4. PROVIDE PHOTOCELL ON NORTH SIDE OF BUILDING #4 FOR AUTOMATIC CONTROL.
- ROUTE CIRCUIT TO HOUSE PANEL IN BUILDING #5. PROVIDE PHOTOCELL ON NORTH SIDE OF BUILDING #5 FOR AUTOMATIC CONTROL.
- PROVIDE GROUNDING & BONDING OF POOL DECK PER NEC. REFER TO GENERIC POOL GROUNDING DETAIL, THIS SHEET. COORDINATE ALL WORK AND REQUIREMENTS WITH POOL EQUIPMENT SUPPLIER.
- LOCATION OF ELECTRICAL SERVICE FOR CLUBHOUSE. REFERENCE SHEET E1.07 FOR ADDITIONAL INFORMATION.
- ROUTE (2) 1" CONDUITS FROM ACCESSIBLE LOCATION NEAR PANEL "PC" POOL DECK FOR FUTURE BAR AREA AT POOL DECK. PROVIDE 12"x12" GRAY POLYMER CONCRETE QUARTZITE BOX TO STUB CONDUITS UP INTO. FIELD VERIFY EXACT LOCATION OF BOX WITH OWNER PRIOR TO ROUGH-IN.

POOL GROUNDING NOTES:

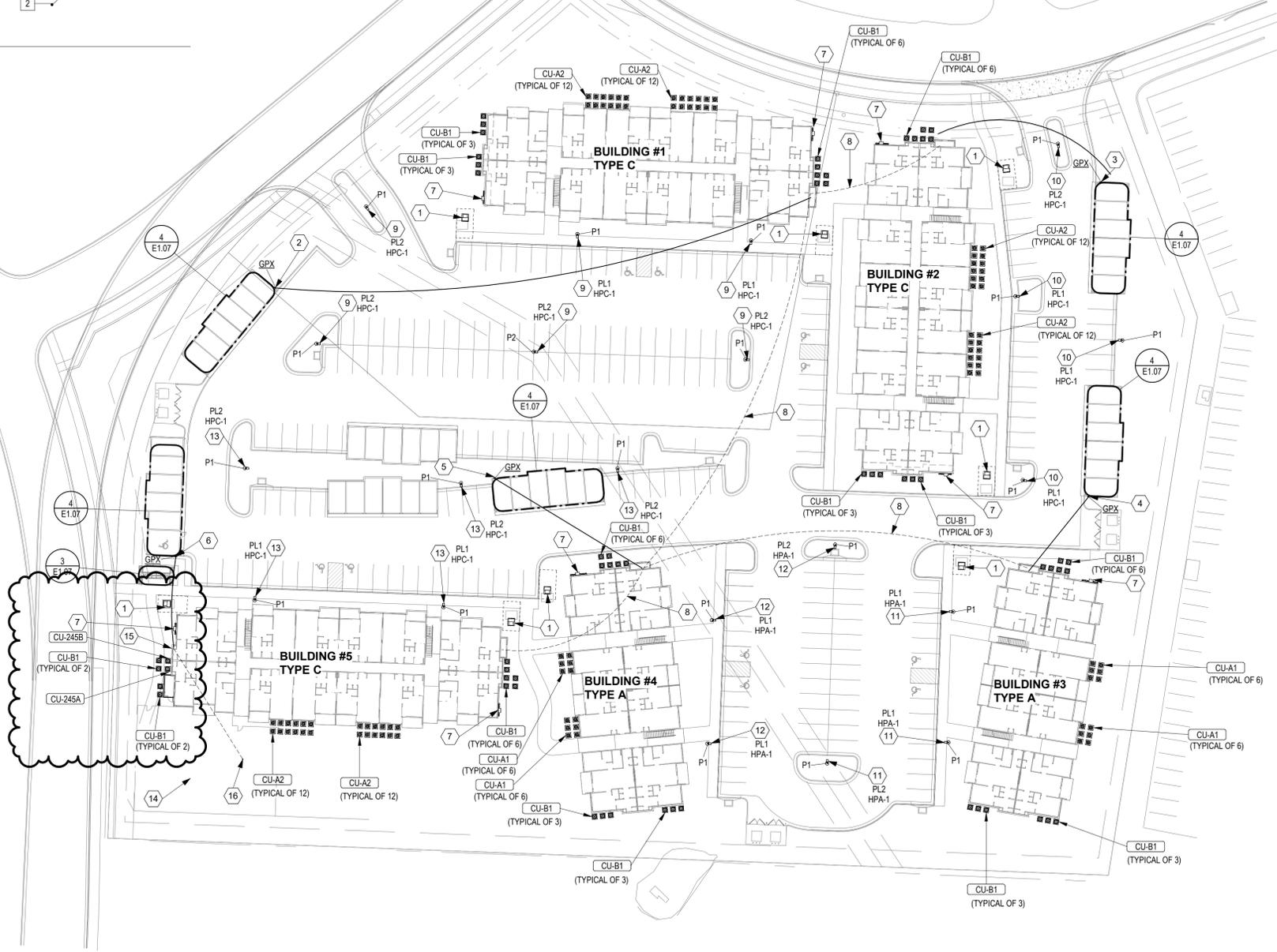
- PROVIDE #8 SOLID CU BOND TO POOL REINFORCING AND DECK REINFORCING PER NEC.
- PROVIDE #8 SOLID CU BOND TO METALLIC POOL EQUIPMENT PER NEC.
- WET NICH UNDER WATER LIGHT FIXTURE FURNISHED BY POOL EQUIPMENT SUPPLIER AND INSTALLED BY ELECTRICAL CONTRACTOR. (TYPICAL OF THREE POOL LIGHTS) ROUTE TO SWITCH IN POOL EQUIPMENT ROOM.
- PROVIDE 1" PVC CONDUIT WITH INSULATED #8 CU BOND WIRE FROM WET NICHE LIGHT FIXTURE TO LIGHTING J-BOX AND TIMECLOCK IN POOL EQUIPMENT ROOM. POWER CABLE FURNISHED AND INSTALLED BY POOL EQUIPMENT SUPPLIER. (TYPICAL OF ALL POOL LIGHTS). VERIFY LIGHTING CONTROLS WITH POOL EQUIPMENT SUPPLIER.



4 POOL GROUNDING DETAIL
ME1.00 1/4" = 1'-0"



3 POLE FOUNDATION DETAIL
ME1.00 1/8" = 1'-0"



5 MECHANICAL AND ELECTRICAL SITE PLAN
ME1.00 1" = 40'-0"

A NEW APARTMENT COMMUNIT AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG

- 03/23/2024 100% CD Set
- 03/22/24 50% CD Set
- 04/19/24 90% CD Set

REVISIONS

Date	Revision
1	Date 2 Revision 2

JOB NO. 740623
DRAWN BY DS/BK
CD SET/PERMIT

SHEET NAME MECHANICAL AND ELECTRICAL SITE PLAN
SHEET NO. ME1.00

MISSOURI PE COA #2009003629
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LEE'S SUMMIT, MO 64086

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• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS

JOB NO. DATE
740623 **04.19.24**
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SHEET NAME
ELECTRICAL TITLE SHEET

SHEET NO.
E0.00

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ELECTRICAL GENERAL NOTES:

- COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS REQUIRED TO PROPERLY INSTALL ALL SYSTEMS AS INTENDED, WITHIN THE CONFINES OF THE SPACES AVAILABLE, AND WITHOUT INTERFERENCES.
- IT IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO PROPERLY BALANCE ALL BRANCH CIRCUITS BETWEEN THE PHASES OF THE SYSTEM REGARDLESS OF CIRCUITING INDICATED.
- ALL EXPOSED RACEWAYS SHALL BE EMT CONDUIT, MC CABLE IS NOT PERMITTED IN EXPOSED AREAS.
- ELECTRICAL CONTRACTOR TO COORDINATE MANUFACTURER ELECTRICAL REQUIREMENTS FOR HVAC EQUIPMENT BEING FURNISHED WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. EQUIPMENT DISCONNECTS TO BE PROVIDED BY ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE IN MECHANICAL SCHEDULES.
- ALL MATERIALS EXPOSED WITHIN PLENUMS (INCLUDING HVAC CLOSET) SHALL BE NONCOMBUSTIBLE OR HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84.
- EACH BRANCH CIRCUIT SHALL HAVE A DEDICATED NEUTRAL PER NEC 210.4.
- ALL BRANCH CIRCUITS SHALL BE SIZED TO ALLOW FOR A MAXIMUM OF 3% VOLTAGE DROP. ALL FEEDERS SHALL BE SIZED TO ALLOW FOR A MAXIMUM OF 2% VOLTAGE DROP. ELECTRICAL CONTRACTOR SHALL VERIFY WIRING INDICATED IS SUFFICIENT AND INCREASE CONDUCTOR SIZE AS REQUIRED BASED OFF ACTUAL INSTALLED LENGTH OF CONDUCTORS.
- ALL 125-VOLT THROUGH 250-VOLT RECEPTACLES SUPPLIED BY SINGLE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND SHALL HAVE GROUND-FAULT CIRCUIT-INTERUPTER PROTECTION FOR PERSONNEL IF LOCATED IN BATHROOMS, GARAGES, OUTDOORS, BASEMENTS, KITCHENS, WITHIN 6'-0" FROM TOP INSIDE EDGE OF THE BOWL OF THE SINK, OR OUTSIDE EDGE OF THE BATHTUB OR SHOWER, OR LAUNDRY AREAS PER NEC 210.8 (A). (GFCI DEVICE OR GFCI BREAKER AS INDICATED ON PLANS)
- RECEPTACLES IN DWELLINGS SHALL BE TAMPER RESISTANT PER NEC ARTICLE 406.
- ALL 120V, SINGLE PHASE, 15 AMP AND 20 AMP BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN DWELLING UNITS, DINING ROOMS, LAUNDRY AREAS, FAMILY ROOMS, KITCHENS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED COMBINATION TYPE ARC-FAULT INTERUPTER INSTALLED TO PROVIDE PROTECTION OF THE ENTIRE BRANCH CIRCUIT PER NEC ARTICLE 210.12(A) AND (B).
- ROUTE LOW VOLTAGE CONTROL WIRE FOR CONDENSING UNIT / AIR HANDLING UNIT WITH REFRIGERANT LINE SET. ROUTE THERMOSTAT WIRE FROM AIR HANDLING UNIT TO THERMOSTAT. COORDINATE EXACT LOCATIONS WITH MECHANICAL CONTRACTOR.
- CONTRACTOR TO INSTALL CLOSET LIGHT FIXTURES TO ENSURE THAT A MINIMUM OF 18" EXISTS BETWEEN THE CLOSET SHELF AND THE EDGE OF THE LIGHT FIXTURE. CONTRACTOR SHALL VERIFY FINAL LOCATION AND DIMENSIONS OF SHELVES RELATIVE TO FIXTURE AND PROVIDE FIXTURE TYPE AS REQUIRED TO COMPLY WITH THE REQUIREMENTS OF THE LOCAL ELECTRICAL CODE.
- ELECTRIC RANGE RECEPTACLE SHALL BE 50-AMP, 2-POLE, 3-WIRE GROUNDING TYPE.
- DISHWASHER AND GARBAGE DISPOSAL SHALL BE SERVED FROM SPLIT WIRED RECEPTACLE AS INDICATED ON PLANS WITH TOP HALF SWITCHED FOR GARBAGE DISPOSAL.
- LAUNDRY RECEPTACLES SERVING CLOTHES DRYERS AND CLOTHES WASHERS SHALL BE MOUNTED AT 44" ABOVE FINISHED FLOOR.
- ELECTRIC CLOTHES DRYER RECEPTACLE SHALL BE 30-AMP, 2-POLE, 3-WIRE GROUNDING TYPE.

Mark	Manufacturer	Model Number	Type Comments
OS	WATTSTOPPER	DT-300	DUAL-TECHNOLOGY CEILING MOUNT OCCUPANCY SENSOR
PP	WATTSTOPPER	BZ-150	OCCUPANCY SENSOR POWER PACK. PROVIDE LOW VOLTAGE WIRING TO OCCUPANCY SENSORS AND MOMENTARY SWITCHES.
SLV	WATTSTOPPER	LVSH-10X	MOMENTARY SWITCH, TOP OF BOX AT 48" AFF.
SOS	WATTSTOPPER	DSW-301	WALL MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR, TOP OF BOX AT 48" AFF

E0.00	ELECTRICAL TITLE SHEET
E1.01A	LEVEL 1 ELECTRICAL PLAN BUILDING A
E1.01C	LEVEL 1 ELECTRICAL PLAN BUILDING C
E1.02A	LEVEL 2 ELECTRICAL PLAN BUILDING A
E1.02C	LEVEL 2 ELECTRICAL PLAN BUILDING C
E1.03A	LEVEL 3 ELECTRICAL PLAN BUILDING A
E1.03C	LEVEL 3 ELECTRICAL PLAN BUILDING C
E1.05	ENLARGED ELECTRICAL PLANS
E1.06	ENLARGED ELECTRICAL PLANS
E1.07	CLUBHOUSE/GARAGE/KIOSK ELECTRICAL PLAN
E3.01A	ELECTRICAL SCHEDULES & RISER BUILDING A
E3.01C	ELECTRICAL SCHEDULES & RISER BUILDING C
E4.01	ELECTRICAL SCHEDULES
E4.02	ELECTRICAL SCHEDULES
ME1.00	MECHANICAL AND ELECTRICAL SITE PLAN

Electrical Symbol Legend

Lighting Symbols

Lighting Fixtures, Typical, Rectangular

Lighting Fixtures, Typical, Round

Wall-mounted fixtures, Typical (Various Symbols)

Strip Fixture

Directional Light, Track Light, Flood Light

Linear Light, Tape Light

Emergency Lighting Unit, Ceiling-Mounted, Integral Battery

Emergency Lighting Unit, Ceiling-Mounted, Remote Battery

Emergency Lighting Unit, Wall-Mounted, Integral Battery

Emergency Lighting Unit, Wall-Mounted, Remote Battery

Exit Light, Ceiling-Mounted, Shading and arrows indicate faces and directional chevrons.

Exit Light, Wall-Mounted, Shading and arrows indicate faces and directional chevrons.

Exit/ELU Combo

Pole/Area Lights

Post-Top Area Light

Bollard Light

Single-Pole Switch

Switch Modifiers:
2: 2-Pole
3: 3-Way OS: Occupancy Sensor
4: 4-Way VS: Vacancy Sensor
K: Keyed AC: Above-Counter
D: Dimming LV: Low-Voltage
T: Timer M: Motor-Rated

Lighting Contactor

Lighting Control Panel

Occupancy Sensor

Daylight Harvesting Sensor

Room Controller

Lighting Tags

Top Value: Fixture Type ID

Bottom Value, Lowercase Letter: Switch ID

Bottom Value, Number(s): Circuit Number

Bottom Value, Uppercase Letter(s): Panel ID

Absence of a switch designation on a lighting fixture indicates fixture is controlled by the only switch in the space.

Switch ID indicated by a lowercase letter. Switch IDs are unique per space. A switch with an ID "a" controls all devices within the space in which it is located tagged with "a". A switch without a tagged ID controls all lighting fixtures within a space. ID tags may be used on control devices other than switches, such as occupancy sensors or contactors.

Power Symbols

Simplex Receptacle

Duplex Receptacle

Quadplex Receptacle

Special Receptacle, Type as Indicated

Receptacle Modifiers:
+XX": Height AFF to centerline
GF: Ground-Fault Circuit Interrupter
WP: Weatherproof In-Use Cover
IG: Isolated Ground

Half shading indicates split (typically switched)

Outside shading indicates device mounted above counter

Multiolet Assembly
Filled squares indicate 120V outlet
Open squares indicate with USB

Cord Reel, Device Varies

Drop Cord, Device Varies

Junction Box

Floor Box, see schedule for type

Emergency Power Off

Door Opener Push Plate

Power Meter

Safety Switch, Fused

Safety Switch, Unfused

Motor Starter

Combination Starter/Disconnect

Contactore

Power Device and Equipment Tags

Electrical Device Tags: Uppercase letter(s) indicates Panel ID and circuit number. Lowercase letter indicates designation of controlling switch (where applicable)

Equipment Tags: Equipment ID is indicated by an underlined tag adjacent to the equipment. Uppercase letter(s) indicates Panel ID and circuit number. Lowercase letter indicates designation of controlling switch (where applicable) Symbols/graphic appearance of equipment varies.

Switch Modifiers:
2: 2-Pole
3: 3-Way OS: Occupancy Sensor
4: 4-Way VS: Vacancy Sensor
K: Keyed AC: Above-Counter
D: Dimming LV: Low-Voltage
T: Timer M: Motor-Rated

Wiring

Solid, arced lines connecting equipment, devices, or fixtures indicate unswitched power circuiting. Wires are only intended to indicate to what circuit devices are connected. Actual connections, circuit routing, installation, junction boxes, etc. shall be field-determined by the contractor.

Home run to branch circuit panelboard. The equipment name and circuit number(s) are indicated, separated by a hyphen. Homeruns are only intended to indicate panel and circuit number. Actual homerun location shall be field-determined by the contractor.

Power Distribution Equipment

Hatched fill indicates distribution panel or switchboard. Solid fill indicates branch panel or load center. Dashed box indicates code-required clearance (width and depth). Door indicates front of recessed panel.

Transformer: Typically transformer names begin with or contain the letter "T". See Single-Line Diagram for description and requirements.

Telecom Symbols

PROVIDE MINIMUM 3/4" CONDUIT STUBBED UP TO ABOVE ACCESSIBLE CEILING, BOTTOM OF BOX AT 16", UNLESS NOTED OTHERWISE. PROVIDE WITH PULL STRING.

WHERE TELECOM SYMBOL IS SHOWN ADJACENT TO POWER DEVICE, TELECOM SHALL BE MOUNTED AT SAME HEIGHT UNLESS NOTED OTHERWISE.

Data Outlet

Telephone Outlet

Data/Telephone Outlet

Outlet Modifiers:
+XX": Height AFF to centerline

Wireless Access Point

TV Outlet - PROVIDE (1) HUBBELL #HBL269 TWO GANG LARGE CAPACITY WALL BOX (UP TO 2" KNOCKOUT) W/ MUD RING AND COVERPLATE FOR DATA. PROVIDE 2" C WITH PULL STRING TO ABOVE ACCESSIBLE CEILING FOR DATA CABLES.

Construction Phasing (Typical All Symbols and Equipment)

Existing to Remain

Existing to Be Demolished

New

Miscellaneous

Area Not in Contract

Keynote

Callout:
Top Value: Detail Number on Sheet
Bottom Value: Sheet Number of Detail

Room Name and Number

Fire Alarm Symbols

Manual Pull Station

Horn, Wall

Horn, Ceiling

Strobe, Wall, Candela as indicated

Strobe, Ceiling, Candela as indicated

Horn/Strobe, Wall, Candela as indicated

Horn/Strobe, Ceiling, Candela as indicated

Remote Indicator w/ Test Switch, Wall

Remote Indicate w/ Test Switch, Ceiling

Smoke Detector

Heat Detector

Carbon Monoxide Detector

Duct Smoke Detector

Smoke Damper

Door Holder

Door Closer

Fire Service Phone

Addressible Module

AIM: Addressible Input Module
AOM: Addressible Output Control Module
AIO: Addressible Input/Output Module

XXXXX Fire Alarm Control Unit
EVA: Voice Evacuation Control Panel
FAA: Fire Alarm Annunciator
FACP: Fire Alarm Control Panel
FATC: Fire Alarm Terminal Cabinet
NACP: Notification Appliance Circuit Panel
FAMN: Fire Alarm Mass Notification Control Panel

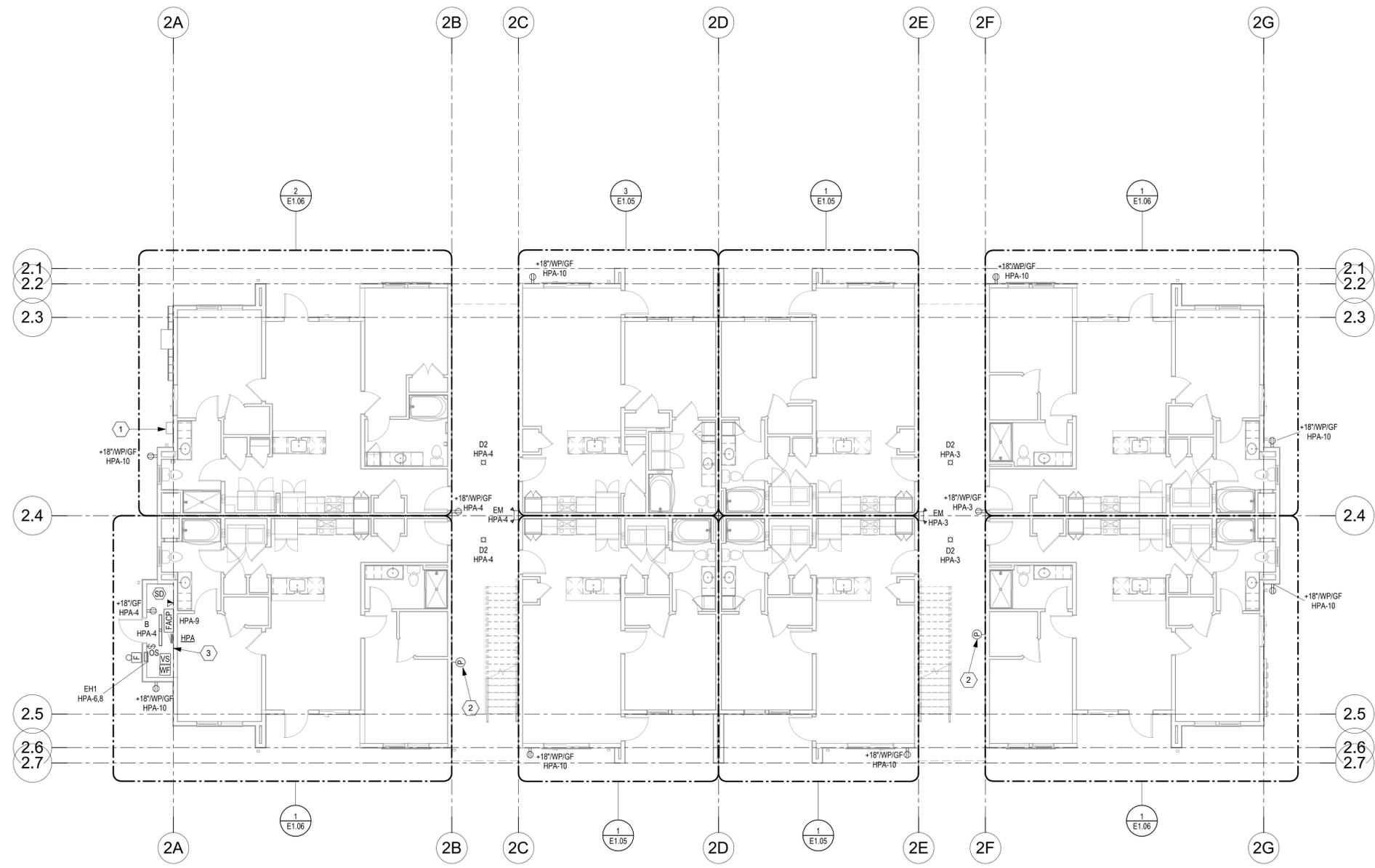
Supervisor or Interface Device
FAA: Fire Alarm Annunciator
PS: Post Indicator Valve Supervisor
PS: Pressure Switch
R: Non-Addressible Relay
VS: Valve Supervisory Switch
WF: Water Flow Switch

Electrical Abbreviations

1P	1 Pole (2P, 3P, 4P, ETC.)	MCB	Main Circuit Breaker
A	Amp	MCC	Motor Control Center
AC	Above Counter	MDC	Main Distribution Center
ACL	Above Ceiling	MDP	Main Distribution Panel
ADD	Automatic Door Opener	MFR	Manufacturer
AF	Amp Frame	MFS	Main Fused Disconnect Switch
AFB	Above Finished Floor	MH	Manhole
AFG	Above Finished Grade	MIC	Microphone
AFI	Arc Fault Circuit Interrupter	MIN	Minimum
AHU	Air Handling Unit	MISC	Miscellaneous
AL	Aluminum	MLO	Main Lugs Only
ALT	Alternate	MMS	Manual Motor Starter
AMP	Ampere	MOA	Multiolet Assembly
AMPL	Amplifier	MSP	Motor Starter Panelboard
ANUN	Annunciator	MSBD	Main Switchboard
APPRO	Approximately	MSS	Motor Starter Switch
AQ-STAK	Quastat	MT	Mount
ARCH	Architect, Architectural	MT.C	Empty Conduit
AS	Amp Switch	MTS	Manual Transfer Switch
AT	Amp Trip	MTR	Motor, Motorized
ATS	Automatic Transfer Switch	N.C.	Normally Closed
AUTO	Automatic	NEC	National Electrical Code
AUX	Auxiliary	NEMA	National Electrical Manufacturer's Association
AV	Audio Visual	NFDS	Non-Fused Safety Disconnect
BATT	American Wire Gauge	NIC	Not In Contract
BD	Board	NL	Night Light
BLDG	Building	N.O.	Normally Open
BMS	Building Management System	NPF	Normal Power Factor
C	Conduit	NTS	Not To Scale
CAB	Cabinet	OC	On Center
CAT	Catalog	OH	Overhead
CATV	Cable Television	OL	Overloads
CB	Circuit Breaker	PA	Public Address
CCTV	Closed Circuit Television	PB	Pull Box Or Pushbutton
CKT	Circuit	PE	Pneumatic Electric
CLG	Ceiling	PED	Pedestal
COMB	Combination	PF	Power Factor
CMPR	Compressor	PH	Phase
CONN	Connection	PIV	Post Indicating Valve
CONST	Construction	PNL	Panel
CONT	Continuation Or Continuous	PP	Power Pole
CONTR	Contractor	PR	Pair
CONV	Convector	PRI	Primary
CP	Circulating Pump	PROJ	Projection
CRT	Cathode-Ray Tube	PRV	Power Roof Ventilator
CT	Current Transformer	PT	Potential Transformer
CTR	Center	PVC	Polyvinyl Chloride (Conduit)
CU	Copper	PWR	Power
DCP	Domestic Water Circulating Pump	QUAN	Quantity
DEPT	Department	RCPT	Receptacle
DET	Detail	REQD	Required
DIA	Diameter	RM	Room
DISC	Disconnect	RSC	Rigid Steel Conduit
DIST	Distribution	RTU	Roof Top Unit
DN	Down	SC	Surface Conduit
DPR	Damper	SEC	Secondary
DS	Safety Disconnect Switch	SHT	Sheet
DT	Double Throw	SIM	Similar
DWG	Drawing	SLD	Single-Line Diagram
EC	Electrical Contractor	S/N	Solid Neutral
ELEC	Electric, Electrical	SPEC	Specification
ELEV	Elevator	SPKR	Speaker
ELU	Emergency Lighting Unit	SP	Spare
EM	Emergency	SPP	Single-Point Power
EMS	Energy Management System	SR	Surface Raceway
EMT	Electrical Metallic Tubing	SS	Stainless Steel
EP	Electric Pneumatic	SSW	Selector Switch
EQUIP	Equipment	S/S	Stop/Start Pushbuttons
EW	Electric Water Cooler	STA	Station
EXIST	Existing	STD	Standard
EXH	Exhaust	SURF	Surface Mounted
EXP	Explosion Proof	SW	Switch
FA	Fire Alarm	SWBD	Switchboard
FABP	Fire Alarm Booster Power Supply Panel	SYM	Symmetrical
FACP	Fire Alarm Control Panel	SYS	System
FCU	Fan Coil Unit	TEL	Telephone
FIXT	Fixture	TERM	Terminal
FLR	Floor	TL	Twist Lock
FLUOR	Fluorescent	TR	Twist Lock
FU	Fuse	TR	Twist Lock
FUDS	Fused Safety Disconnect Switch	T-STAT	Thermostat
GA	Gauge	TTC	Telephone Terminal Cabinet
GAL	Gallon	TV	Television
GALV	Galvanized	TVTC	Television Terminal Cabinet
GC	General Contractor	UC	Under Counter
GEN	Generator	UE	Underground Electrical
GFI	Ground Fault Circuit Interrupter	UG	Underground
GFP	Ground Fault Protector	UH	Unit Heater
GND	Ground	UT	Underground Telephone
GRS	Galvanized Rigid Steel (Conduit)	UTIL	Utility
GYP	Gypsum Board	UV	Ultraviolet
HOA	Hands-Off-Automatic Switch	V	Volt
HORIZ	Horizontal	VA	Volt-Amperes
HP	Horsepower	VDT	Video Display Terminal
HPF	High Power Factor	VERT	Vertical
HT	Height	VFD	Variable Frequency Drive
HTG	Heating	VOL	Volume
HTR	Heater	W	Watt
HV	High Voltage	W	With
HVAC	Heating, Ventilating And Air Conditioning	WG	Wire Guard
IC	Interrupting Capacity	WH	Water Heater
IG	Isolated Ground	W/O	Without
IMC	Intermediate Metal Conduit	WP	Weatherproof
INCAND	Incandescent	XFMR	Transformer
IR	Infrared	XFR	Transfer
IW	Interlock With		
J-BOX	Junction Box	∠	Angle
KV	Kilovolt	@	At
KVA	Kilovolt-Ampere	▲	Delta
KVAR	Kilovolt-Ampere Reactive	+	Feet
KW	Kilowatt	*	Inches
KWH	Kilowatt Hour	#	Number
LOC	Locate Or Location	Ø	Phase
LT	Light	C	Center Line
LTG	Lighting	P	Plate
LTNG	Lightning		
LV	Low Voltage		
MAX	Maximum		
MAG.S	Magnetic Starter		
M/C	Momentary Contact		
MC	Mechanical Contractor		



- KEYNOTES**
- NEMA 3R TELECOMM TERMINAL CABINET FOR TELECOMM SERVICE TO BUILDING. PROVIDE 4" CONDUIT TO DISTRIBUTION POINT DIRECTED BY SERVICE PROVIDER.
 - WALL MOUNTED PHOTOCELL FOR CONTROL OF BREEZEWAY LIGHTS. INTERIOR CORRIDOR LIGHTS SHALL NOT BE ROUTED THROUGH PHOTOCELL AND SHALL BE ON AT ALL TIMES. PROVIDE UNSWITCHED CONDUCTOR ROUTED AHEAD OF PHOTOCELL FOR EMERGENCY LIGHTING, EXIT LIGHTING AND BATTERY BACK-UP.
 - PROVIDE INTERMATIC MODEL ET2805C ASTRONOMIC 1-CIRCUIT ELECTRONIC CONTROL, 120 VOLT, SPST TIME SWITCH WITH INDOOR METAL ENCLOSURE TO CONTROL PARKING LOT LIGHTING. REFERENCE SITE PLAN FOR LIGHTS TO BE ROUTED THROUGH TIME SWITCH.



COORDINATE LOCATION OF WPI/GFI RECEPTACLES WITH MECHANICAL CONTRACTOR. AT LEAST ONE 15 OR 20 AMP RECEPTACLE SHALL BE INSTALLED WITHIN 25'-0" OF ALL CONDENSING UNITS FOR SERVICE PER NEC 210.63

1 LEVEL 1 ELECTRICAL PLAN BUILDING A
E1.01A 1/8" = 1'-0"

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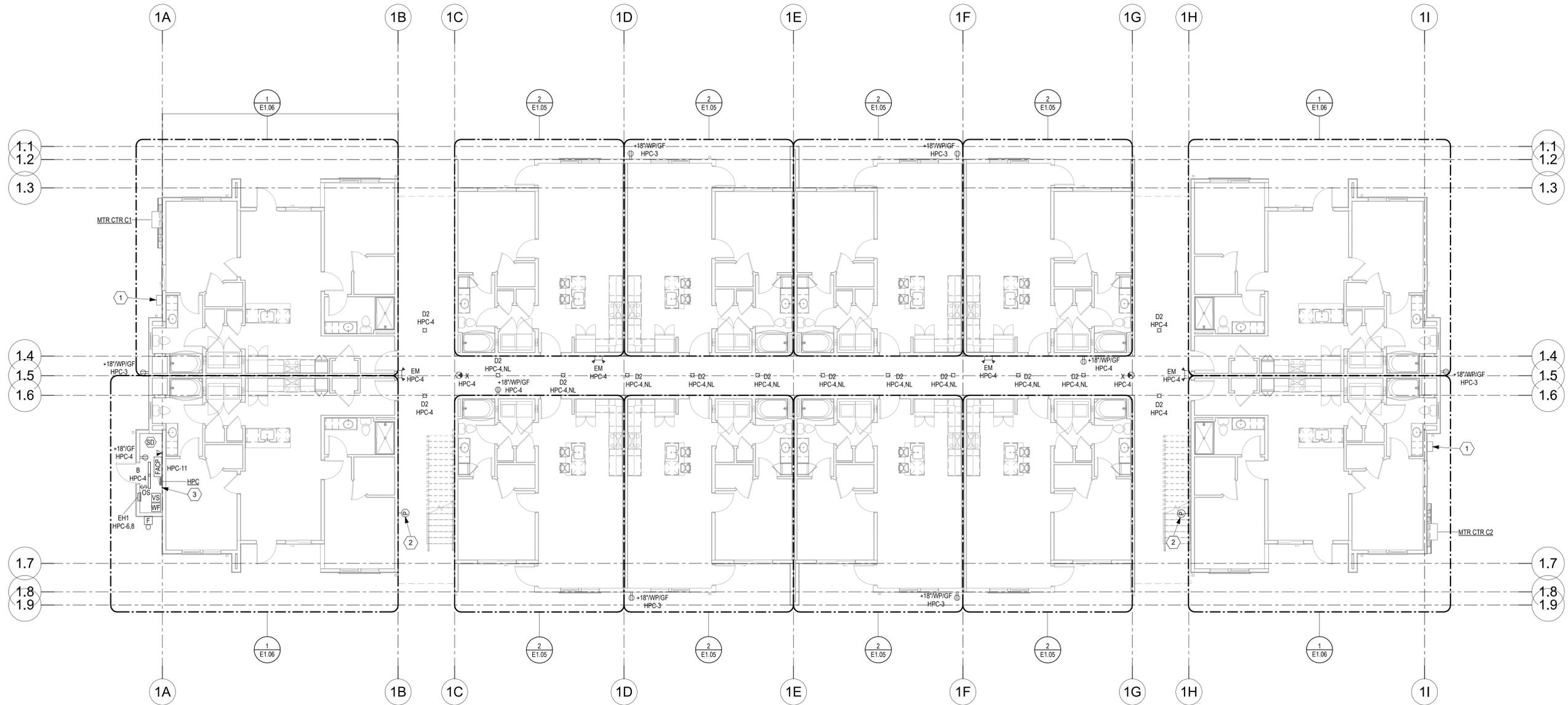
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BUILDING A
SHEET NO.

E1.01A



NOTE: PANEL HPC DOES NOT GET INSTALLED ON BUILDING TYPE 'C' WITH CLUBHOUSE. ALL CIRCUITS NOTED TO GO TO PANEL HPC SHALL BE ROUTED TO PANEL PC WITH SAME CIRCUIT NUMBER.

- KEYNOTES**
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COORDINATE LOCATION OF WP/GFI RECEPTACLES WITH MECHANICAL CONTRACTOR. AT LEAST ONE 15 OR 20 AMP RECEPTACLE SHALL BE INSTALLED WITHIN 25'-0" OF ALL CONDENSING UNITS FOR SERVICE PER NEC 210.63

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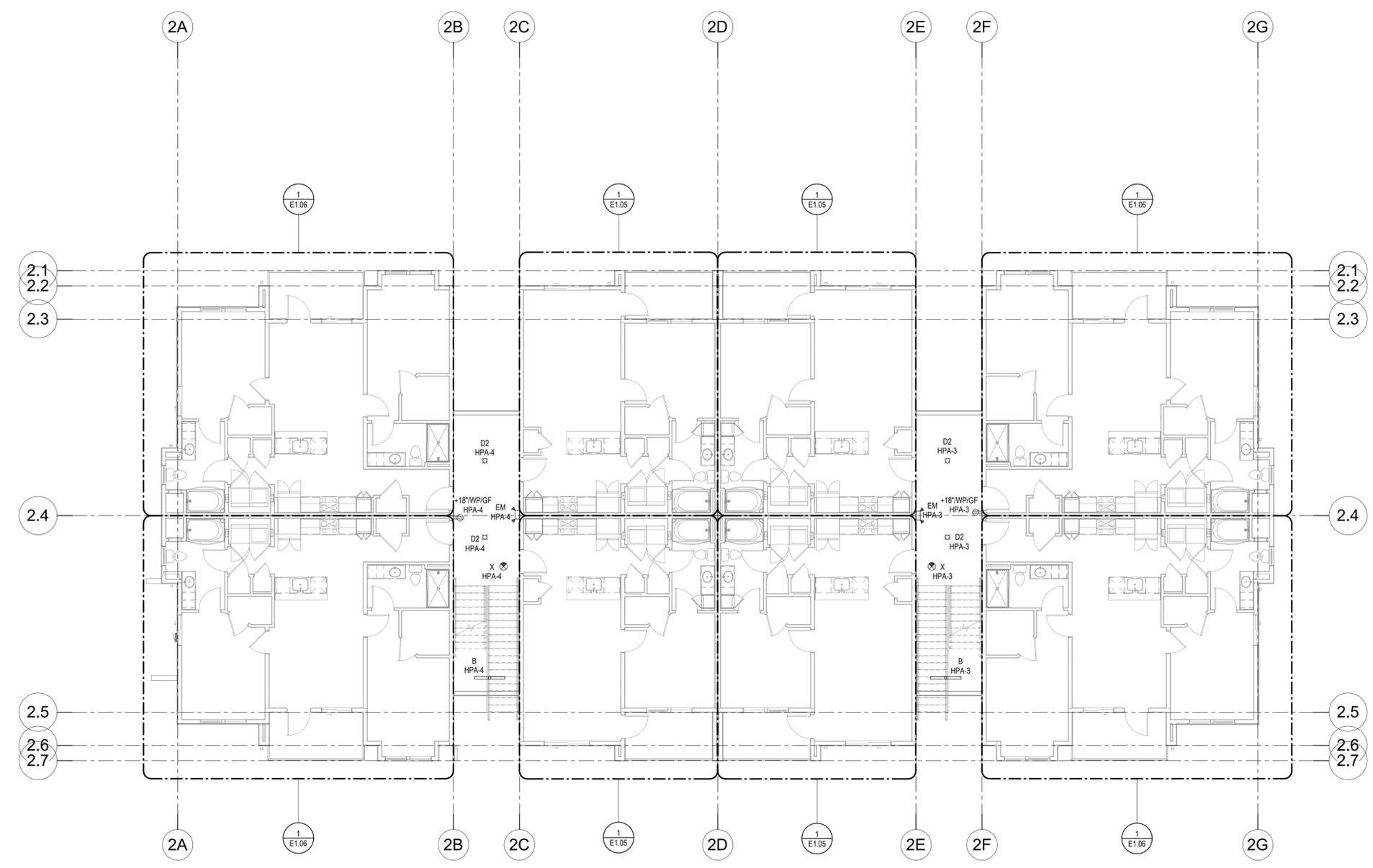
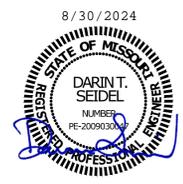
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SHEET NAME
LEVEL 1 ELECTRICAL PLAN
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1 LEVEL 2 ELECTRICAL PLAN BUILDING A
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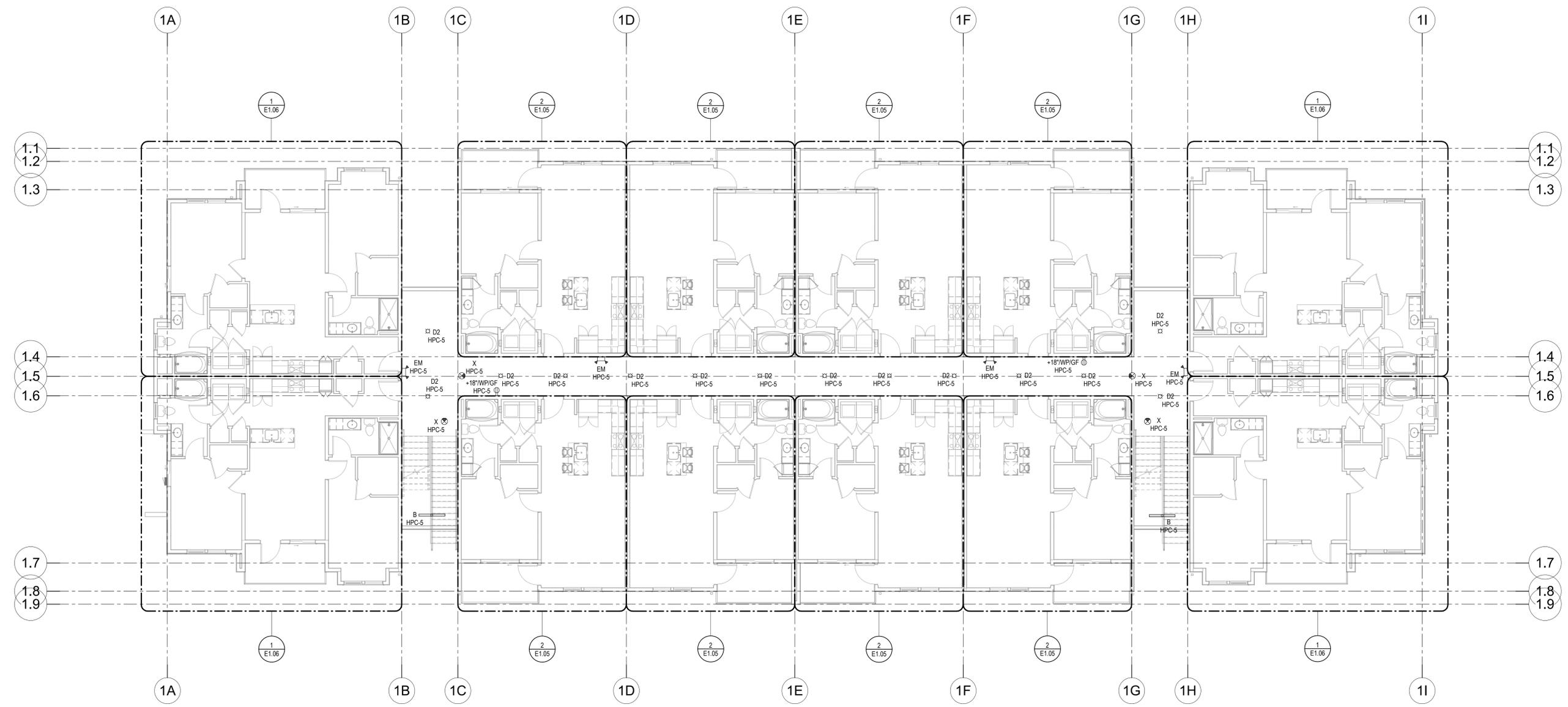
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SHEET NAME
LEVEL 2 ELECTRICAL PLAN
BUILDING A
SHEET NO.

E1.02A



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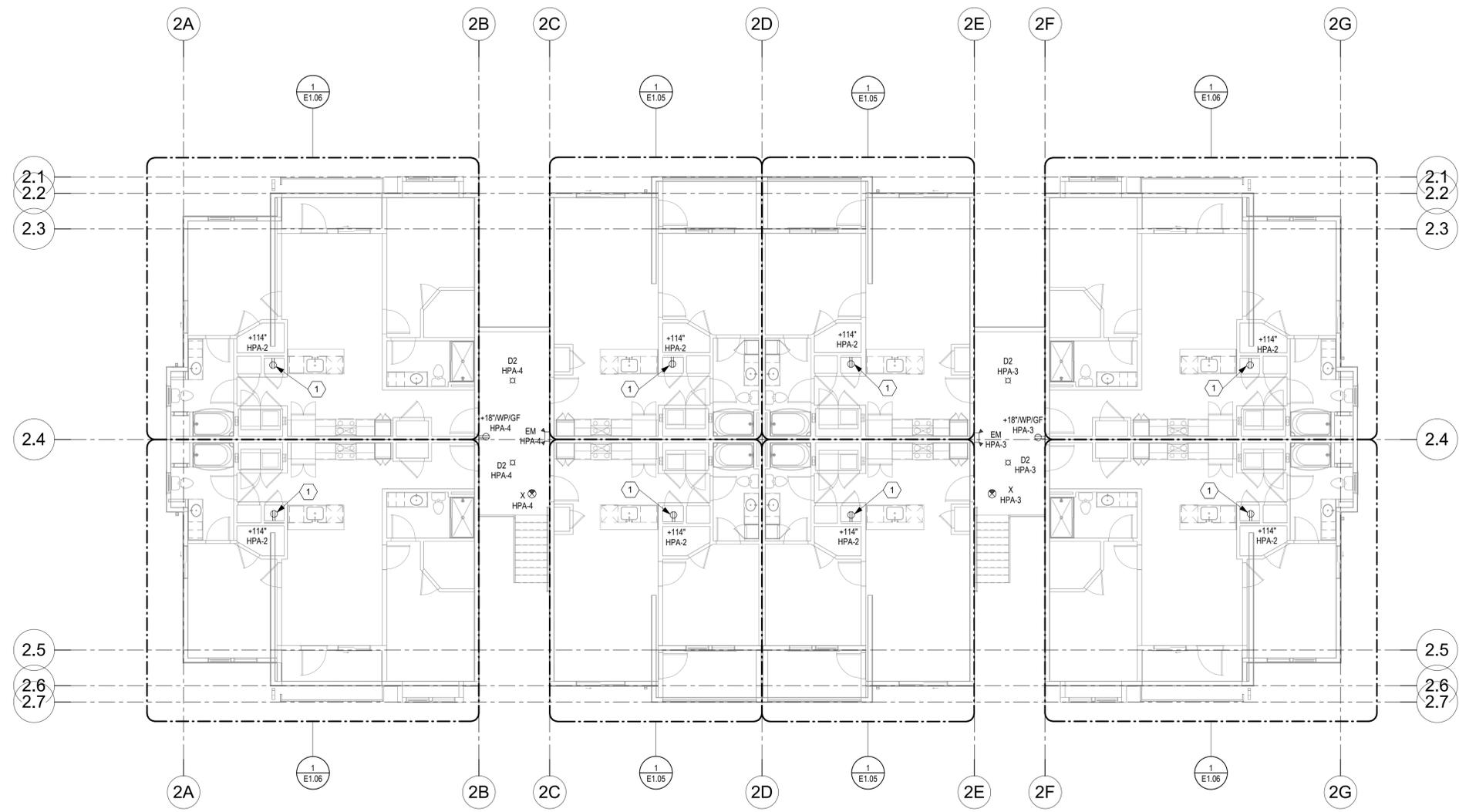
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SHEET NAME LEVEL 2 ELECTRICAL PLAN BUILDING C
SHEET NO. E1.02C

KEYNOTES

- 1 PROVIDE RECEPTACLE FOR FUTURE RADON MITIGATION FANS MOUNTED IN ATTIC SPACE ABOVE CLOSET. MOUNT TO STRUCTURE NEAR RADON MITIGATION PIPE IN AN ACCESSIBLE LOCATION THROUGH ACCESS PANEL BY OTHERS.

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1 LEVEL 3 ELECTRICAL PLAN BUILDING A
E1.03A 1/8" = 1'-0"

A NEW APARTMENT COMMUNIT AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
• 03/23/2024 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

△ REVISIONS

MISSOURI PE COA #2009003629

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JOB NO. 740623 DATE 04.19.24
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SHEET NAME LEVEL 3 ELECTRICAL PLAN BUILDING A SHEET NO. E1.03A

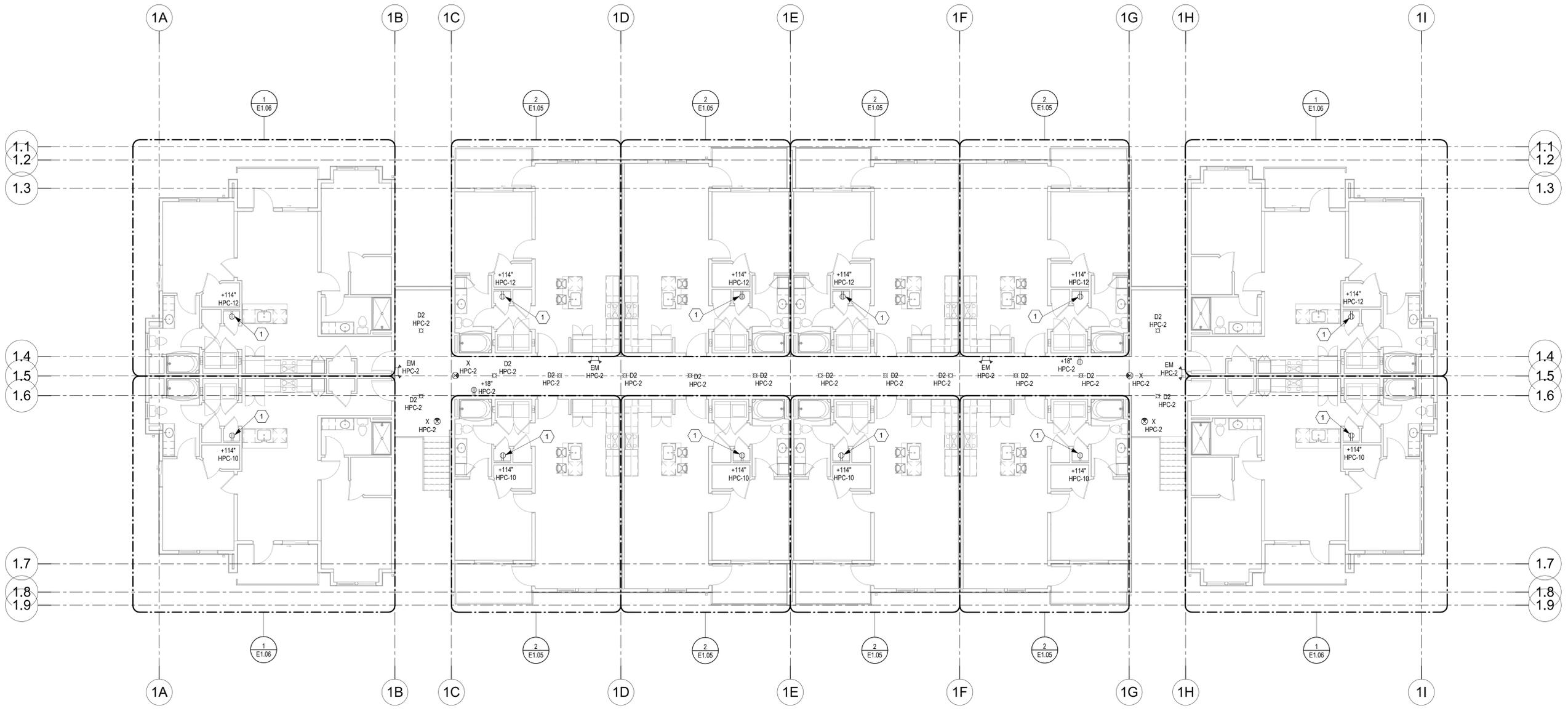
E1.03A

KEYNOTES

NOTE: PANEL HPC DOES NOT GET INSTALLED ON BUILDING TYPE 'C' WITH CLUBHOUSE. ALL CIRCUITS NOTED TO GO TO PANEL HPC SHALL BE ROUTED TO PANEL PC WITH SAME CIRCUIT NUMBER.

1 PROVIDE RECEPTACLE FOR FUTURE RADON MITIGATION FANS MOUNTED IN ATTIC SPACE ABOVE CLOSET. MOUNT TO STRUCTURE NEAR RADON MITIGATION PIPE IN AN ACCESSIBLE LOCATION THROUGH ACCESS PANEL BY OTHERS.

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1 LEVEL 3 ELECTRICAL PLAN BUILDING C
E1.03C 1/8" = 1'-0"

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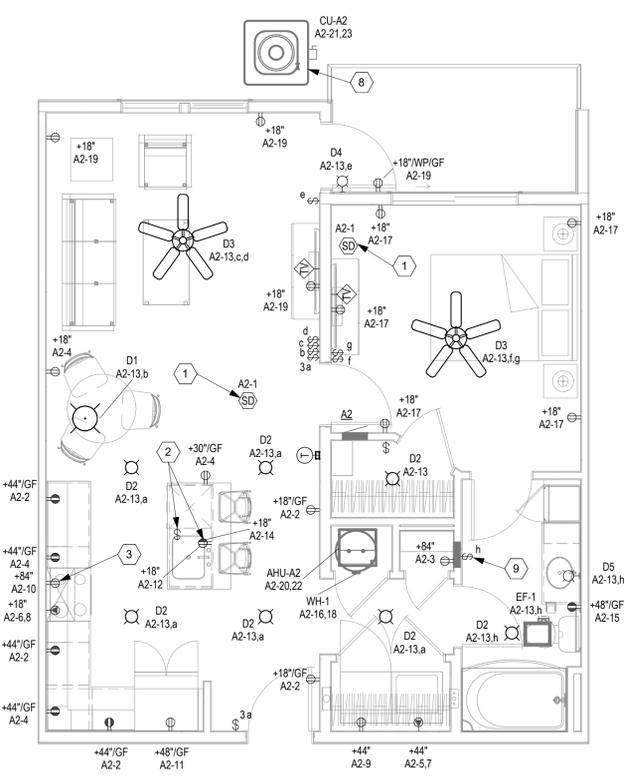
SHEET NAME
LEVEL 3 ELECTRICAL PLAN
BUILDING C
SHEET NO.

E1.03C

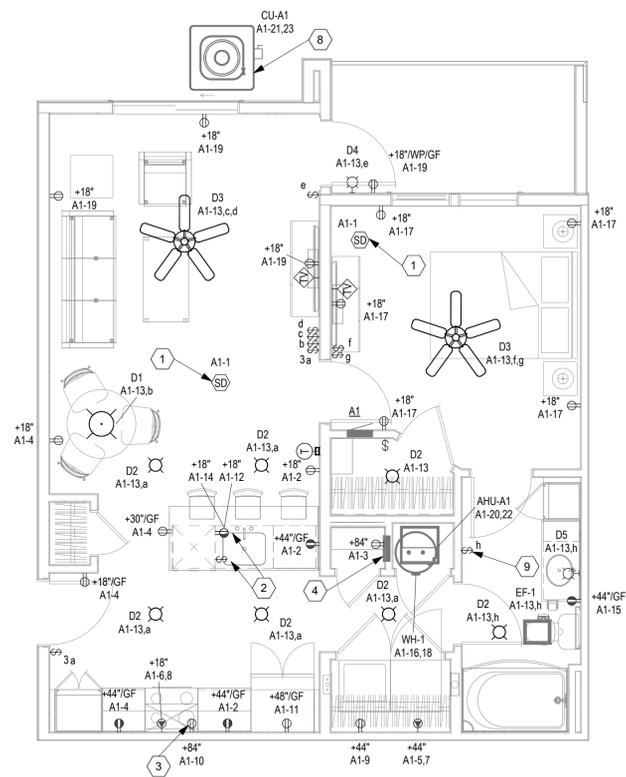


KEYNOTES

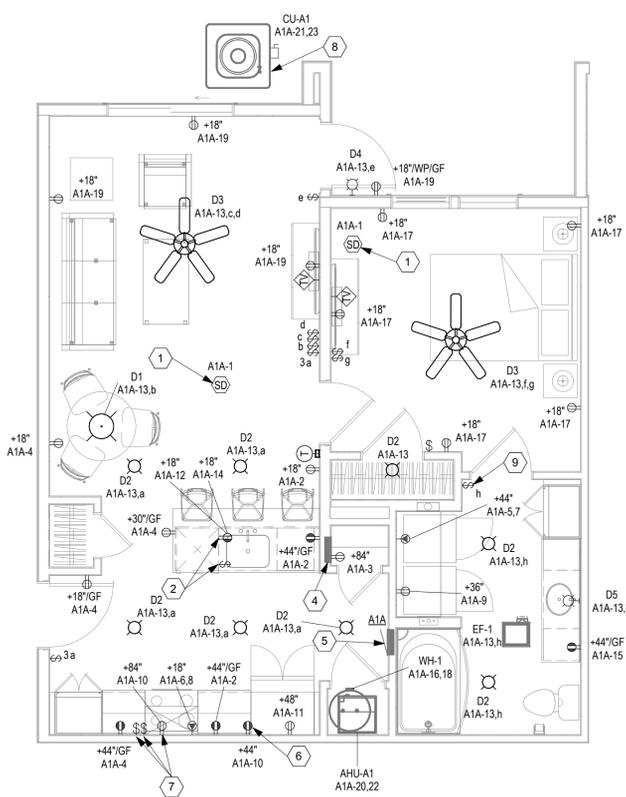
- SMOKE DETECTOR. DETECTOR SHALL BE SELF-CONTAINED, 120VAC U.L. LISTED. VERIFY MOUNTING WITH ARCHITECTURAL REFLECTED CEILING PLAN. LOCATE A MINIMUM OF 3 FEET FROM HVAC SUPPLY REGISTERS, BATHROOM DOORS AND TIPS OF CEILING FANS. DETECTOR SHALL HAVE A BATTERY. INTERCONNECT ALL DETECTORS IN UNIT FOR COMMON ANNUNCIATION UPON ACTIVATION OF ANY ONE DEVICE. CIRCUIT SHALL BE LABELED IN RED PER NFA.
- PROVIDE SPLIT WIRED DUPLEX RECEPTACLE MOUNTED UNDER SINK FOR GARBAGE DISPOSAL AND DISHWASHER. THE TOP HALF OF THE RECEPTACLE SHALL BE FOR THE DISHWASHER, AND THE BOTTOM HALF SHALL BE SWITCHED TO CONTROL THE GARBAGE DISPOSAL. PROVIDE SWITCH FOR DISPOSAL SURFACE MOUNTED IN CASEWORK IN METAL BOX. PROVIDE MC CABLE BETWEEN BOX AND RECEPTACLE.
- PROVIDE RECEPTACLE MOUNTED IN CABINETS ABOVE RANGE FOR MICROWAVE. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION.
- PROVIDE LEVITON OR EQUAL 14" STRUCTURED MEDIA CABINET FOR DWELLING UNIT PHONE/DATA AND TV CABLING PER OWNER REQUIREMENTS. PROVIDE RECEPTACLE WITHIN CABINET FOR TELECOM EQUIPMENT. PROVIDE BACKBONE CABLING TO DISTRIBUTION POINT AS DIRECTED BY BUILDING OWNER. COORDINATE WITH THE STRUCTURED CABLING SUPPLIER.
- PANEL IN ADA UNIT TO BE INSTALLED AT 48" ABOVE FINISHED FLOOR TO TOP OF ENCLOSURE.
- PROVIDE RECEPTACLE IN ADA UNIT MOUNTED ABOVE COUNTER FOR MICROWAVE.
- PROVIDE RECEPTACLE MOUNTED IN CABINETS ABOVE RANGE FOR HOOD. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION. PROVIDE SWITCHES ABOVE COUNTER FOR HOOD FAN AND HOOD LIGHT. INTERLOCK SWITCHES WITH HOOD TO CONTROL FAN AND LIGHT INDEPENDENTLY.
- APARTMENT CONDENSING UNIT. REFERENCE SITE PLAN FOR ACTUAL LOCATION. SHOWN HERE TO SHOW DISCONNECT AND CIRCUITING TO APARTMENT UNIT PANEL.
- PROVIDE AIRCYCLER SMARTEXHAUST TOGGLE SWITCH MODEL SE1-X. FIELD VERIFY COLOR WITH OWNER/ARCHITECT PRIOR TO ORDERING. PROGRAM FAN OPERATION TIME PER HOUR ACCORDING TO OWNER REQUIREMENTS TO MEET GREEN BUILDING REQUIREMENTS.



2 UNIT A2 - ELECTRICAL
E1.05 1/4" = 1'-0"



1 UNIT A1 - ELECTRICAL
E1.05 1/4" = 1'-0"



3 UNIT A1 ADA - ELECTRICAL
E1.05 1/4" = 1'-0"

A NEW APARTMENT COMMUNITY AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
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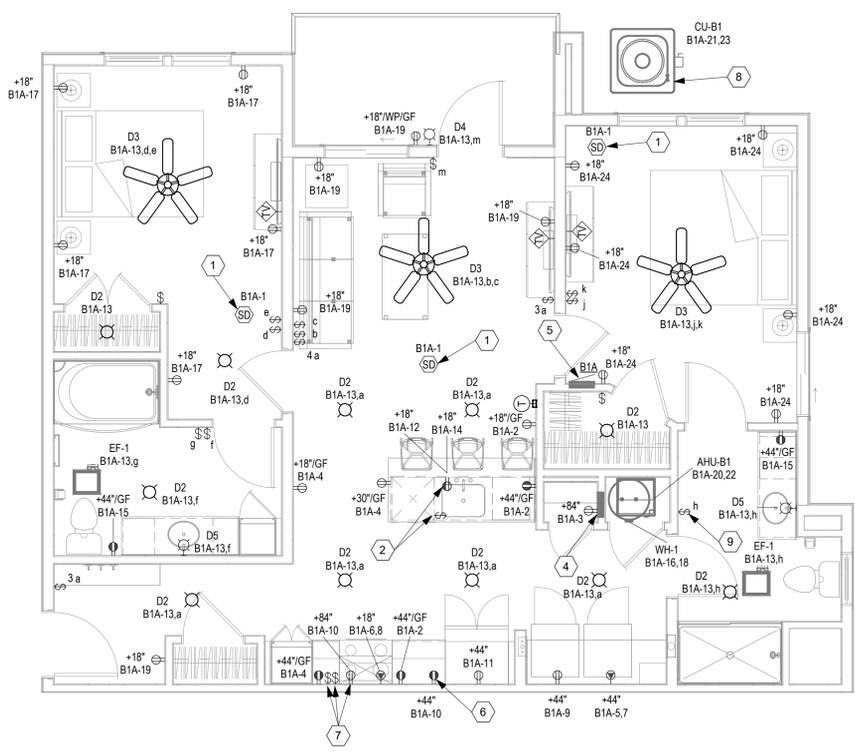
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SHEET NAME ENLARGED ELECTRICAL PLANS SHEET NO. **E1.05**

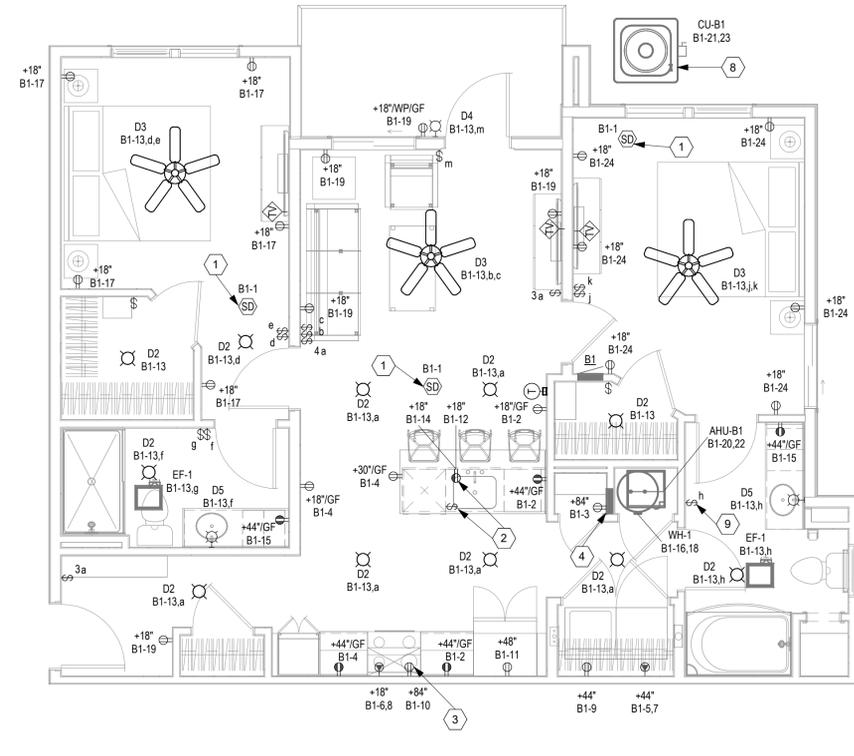


KEYNOTES

- SMOKE DETECTOR. DETECTOR SHALL BE SELF-CONTAINED, 120VAC U.L. LISTED. VERIFY MOUNTING WITH ARCHITECTURAL REFLECTED CEILING PLAN. LOCATE A MINIMUM OF 3 FEET FROM HVAC SUPPLY REGISTERS, BATHROOM DOORS AND TIPS OF CEILING FANS. DETECTOR SHALL HAVE A BATTERY. INTERCONNECT ALL DETECTORS IN UNIT FOR COMMON ANNUNCIATION UPON ACTIVATION OF ANY ONE DEVICE. CIRCUIT SHALL BE LABELED IN RED PER NFA.
- PROVIDE SPLIT WIRED DUPLEX RECEPTACLE MOUNTED UNDER SINK FOR GARBAGE DISPOSAL AND DISHWASHER. THE TOP HALF OF THE RECEPTACLE SHALL BE FOR THE DISHWASHER, AND THE BOTTOM HALF SHALL BE SWITCHED TO CONTROL THE GARBAGE DISPOSAL. PROVIDE SWITCH FOR DISPOSAL SURFACE MOUNTED IN CASEWORK IN METAL BOX. PROVIDE MC CABLE BETWEEN BOX AND RECEPTACLE.
- PROVIDE RECEPTACLE MOUNTED IN CABINETS ABOVE RANGE FOR MICROWAVE. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION.
- PROVIDE LEVITON OR EQUAL 14" STRUCTURED MEDIA CABINET FOR DWELLING UNIT PHONE/DATA AND TV CABLING PER OWNER REQUIREMENTS. PROVIDE RECEPTACLE WITHIN CABINET FOR TELECOM EQUIPMENT. PROVIDE BACKBONE CABLING TO DISTRIBUTION POINT AS DIRECTED BY BUILDING OWNER. COORDINATE WITH THE STRUCTURED CABLING SUPPLIER.
- PANEL IN ADA UNIT TO BE INSTALLED AT 48" ABOVE FINISHED FLOOR TO TOP OF ENCLOSURE.
- PROVIDE RECEPTACLE IN ADA UNIT MOUNTED ABOVE COUNTER FOR MICROWAVE.
- PROVIDE RECEPTACLE MOUNTED IN CABINETS ABOVE RANGE FOR HOOD. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION. PROVIDE SWITCHES ABOVE COUNTER FOR HOOD FAN AND HOOD LIGHT. INTERLOCK SWITCHES WITH HOOD TO CONTROL FAN AND LIGHT INDEPENDENTLY.
- APARTMENT CONDENSING UNIT. REFERENCE SITE PLAN FOR ACTUAL LOCATION. SHOWN HERE TO SHOW DISCONNECT AND CIRCUITING TO APARTMENT UNIT PANEL.
- PROVIDE AIRCYCLER SMARTEXHAUST TOGGLE SWITCH MODEL SEI-X. FIELD VERIFY COLOR WITH OWNER/ARCHITECT PRIOR TO ORDERING. PROGRAM FAN OPERATION TIME PER HOUR ACCORDING TO OWNER REQUIREMENTS TO MEET GREEN BUILDING REQUIREMENTS.



2 UNIT B1 ADA - ELECTRICAL
E1.06 1/4" = 1'-0"



1 UNIT B1 - ELECTRICAL
E1.06 1/4" = 1'-0"

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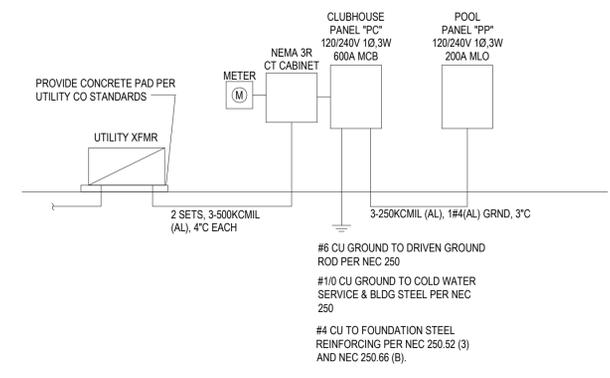
SHEET NAME
ENLARGED ELECTRICAL PLANS
SHEET NO.
E1.06

8/30/2024

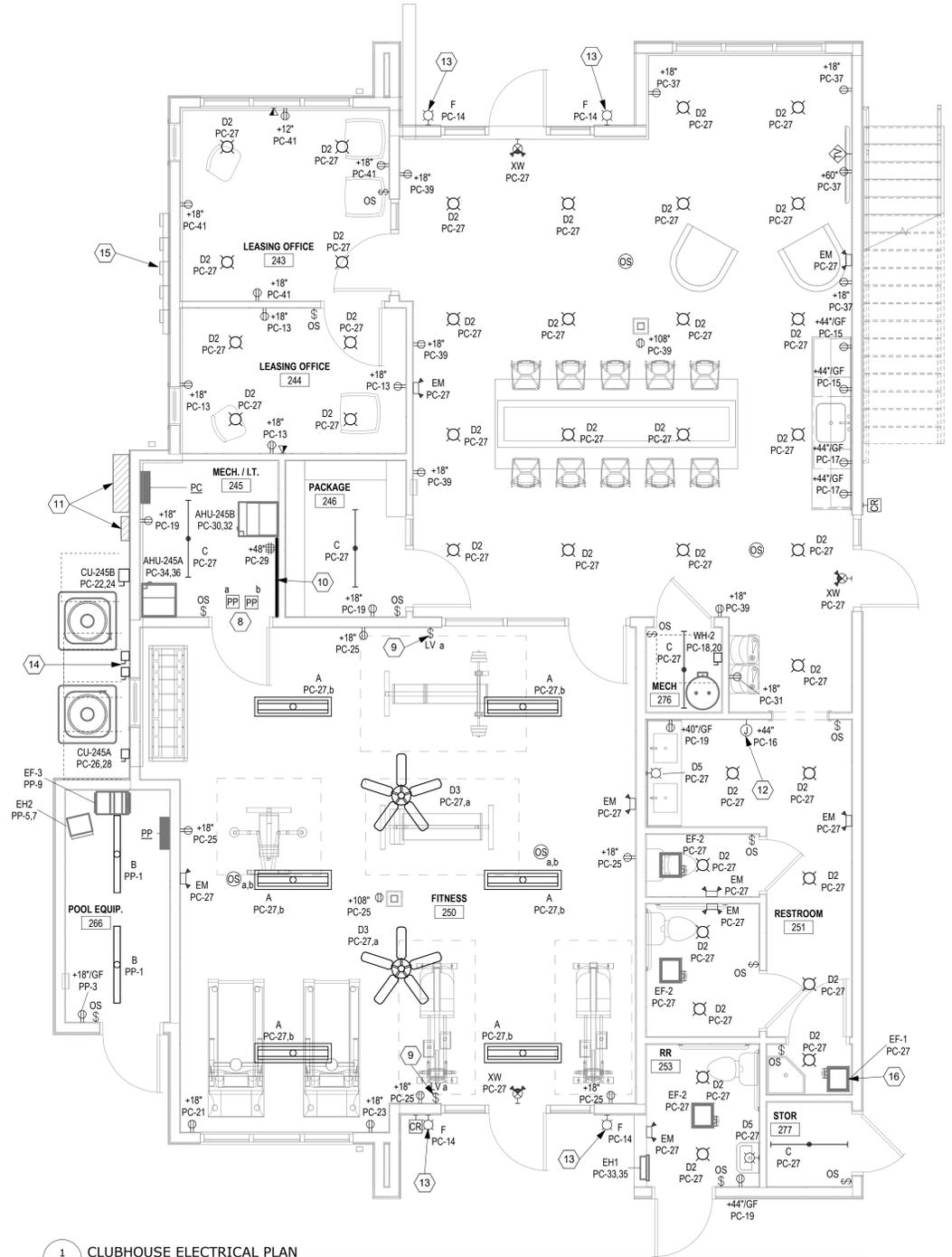


KEYNOTES

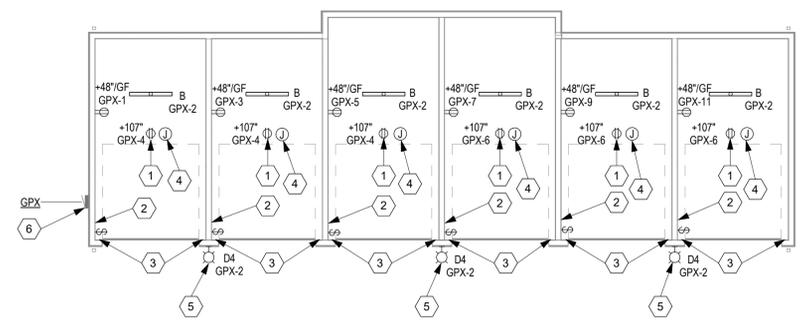
- MOUNT RECEPTACLE FOR GARAGE DOOR OPERATOR IN CEILING 10'-0" FROM FACE OF WALL WITH GARAGE DOOR AND CENTERED ON GARAGE DOOR.
- GARAGE DOOR PUSH BUTTON TO BE MOUNTED AT 48" ABOVE FINISHED FLOOR. PROVIDE 2-CONDUCTOR BELL WIRE CONCEALED IN WALLS/CEILING TO JUNCTION BOX AT GARAGE DOOR OPERATOR. LEAVE A MINIMUM OF 18" OF WIRE COOLED AT PUSH BUTTON LOCATION.
- SAFETY/PHOTOELECTRIC SENSOR TO BE MOUNTED AT 6" ABOVE FINISHED FLOOR AND 6" FROM SIDE OF DOOR OPENING. PROVIDE 2-CONDUCTOR BELL WIRE CONCEALED IN WALLS/CEILING TO JUNCTION BOX AT GARAGE DOOR OPERATOR. LEAVE A MINIMUM OF 24" OF WIRE COILED AT SENSOR LOCATION.
- JUNCTION BOX LOCATED NEXT TO GARAGE DOOR RECEPTACLE IN CEILING. ROUTE 2-CONDUCTOR BELL WIRE BACK TO THIS LOCATION AS INDICATED AND LEAVE A MINIMUM OF 48" OF WIRE COILED IN JUNCTION BOX.
- PROVIDE PHOTOCELL ON NORTH SIDE OF GARAGE BUILDING TO CONTROL EXTERIOR BUILDING MOUNTED LIGHTS.
- ELECTRICAL LOAD CENTER MAY BE LOCATED ON EITHER END OF GARAGE. REFERENCE ELECTRICAL SITE PLAN FOR LOAD CENTER LOCATION. GPX REPRESENTS GARAGE LOAD CENTERS GFI THROUGH GFS. EACH APARTMENT BUILDING WILL POWER ONE GARAGE LOAD CENTER. REFERENCE ELECTRICAL RISER.
- PROVIDE PHOTOCELL ON NORTH SIDE OF KIOSK AND ROUTE LIGHTING CIRCUIT FOR KIOSK THROUGH PHOTOCELL.
- PROVIDE POWER PACKS FOR FITNESS AREA LIGHTING CONTROL. ONE POWER PACK FOR CEILING FANS, AND ONE POWER PACK FOR LIGHTS. ALL FANS AND LIGHTS TO BE TIED INTO OCCUPANCY SENSORS FOR AUTOMATIC SHUTOFF WHEN ROOM IS UNOCCUPIED. LOCATE POWER PACKS IN ACCESSIBLE LOCATION IN MECHANICAL ROOM.
- LOW-VOLTAGE MOMENTARY CONTACT TOGGLE SWITCH FOR CONTROL OF FITNESS ROOM FANS.
- 4"x4"x3/4" PLYWOOD TELECOMM BACKBOARD WITH GROUND BAR AND #6CU BOND TO BUILDING ELECTRODE SYSTEM. PROVIDE 4" CONDUIT TO PROPERTY LINE FOR CLUBHOUSE TELECOMM SERVICE. TERMINATE AS DIRECTED BY LOCAL SERVICE PROVIDER.
- CLUBHOUSE CT CABINET AND ELECTRICAL METER. SEE RISER DIAGRAM. COORDINATE ALL REQUIREMENTS WITH EVERYG.
- MAKE CONNECTION TO HAND DRYER PER MANUFACTURER'S INSTRUCTIONS.
- ROUTE CIRCUIT THROUGH PHOTOCELL TO BE LOCATED ON NORTH SIDE OF CLUBHOUSE AND THROUGH 50-WATT EMERGENCY MICROINVERTER TYPICAL OF IOTA MODEL IS-50-1 TO BE LOCATED NEXT TO ELECTRICAL PANEL PC.
- DISCONNECTS FOR CONDENSING UNITS SITTING OUT FURTHER FROM BUILDING SERVING APARTMENTS. SHOWN HERE TO UNDERSTAND THE COORDINATION REQUIRED FOR LOCATING DISCONNECTS. REFERENCE SITE PLAN ME1.00 FOR ADDITIONAL CONDENSING UNIT LOCATIONS.
- APARTMENT BUILDING ELECTRICAL SERVICE. REFERENCE SHEET ME1.00 AND E3.01C FOR INFORMATION ABOUT THE ELECTRICAL SERVICE FOR THE BUILDING WITH THE CLUBHOUSE IN IT.
- EXHAUST FAN SHALL OPERATE CONTINUOUSLY.



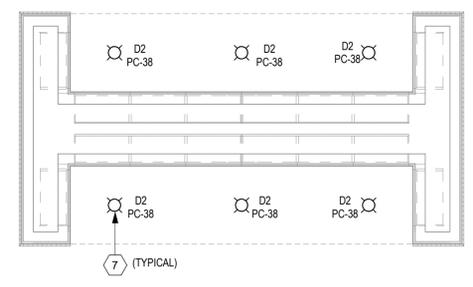
2 ELECTRICAL RISER DIAGRAM - CLUBHOUSE
E1.07 1/8" = 1'-0"



1 CLUBHOUSE ELECTRICAL PLAN
E1.07 1/4" = 1'-0"



4 GARAGE - 6 BAY ELECTRICAL
E1.07 1/8" = 1'-0"



3 KIOSK ELECTRICAL PLAN
E1.07 1/4" = 1'-0"

A NEW APARTMENT COMMUNIT AT:
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NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
• 03/23/2024 100% CD Set
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JOB NO. 740623
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SHEET NAME CLUBHOUSE/GARAGE/KIOSK ELECTRICAL PLAN
SHEET NO.

E1.07



Load Center: HPA									
Location: WATER 241					Voltage: 240 V, 1Ø, 3W				
Supply:					Bus Rating: 125 A				
Mounting: Surface					Neutral: 100%				
Enclosure: NEMA 1					Feed-Thru...: No				
					Features & Modifications: -				
					Mains Type: MLO				
					Mains Rating: 125 A				
					Mains FN/Note: -				
					SCCR: 10 kA				

Ckt	Description	Trip (A)	Poles	Wire	A	B	A	B	Wire	Poles	Trip (A)	Description	Ckt
1	SITE LIGHTING	20	1	#12	560		1440		#12	1	20	RADON RECEPTACLES	2
3	STAIRWELL LIGHTS/REC	20	1	#12		665		891	#12	1	20	STAIRWELL LIGHTS/REC	4
5	GARAGE PANEL	60	2	#4	1410		1500		#12	2	20	ELECTRIC WALL HEATER	6
7						1080		1500					8
9	FIRE ALARM CONTROL...	20	1	#12	360		1440		#12	1	20	WP/GFI RECEPTACLES	10
11	SPARE	20	1			0		0		1	20	SPARE	12
13	SPARE	20	1		0		0	0		1	20	SPARE	14
15	SPARE	20	1		0		0	0		1	20	SPARE	16
17	SPARE	20	1		0		0	0		1	20	SPARE	18

Connected Load:				7 kVA	0 kVA
Connected Current:				56 A	0 A

Load Classification	Connected	Factor	Demand
HEAT	3000 VA	125.00%	3750 VA
LIGHTING	1186 VA	125.00%	1483 VA
Other	360 VA	100.00%	360 VA
RECEPTACLE	6300 VA	100.00%	6300 VA

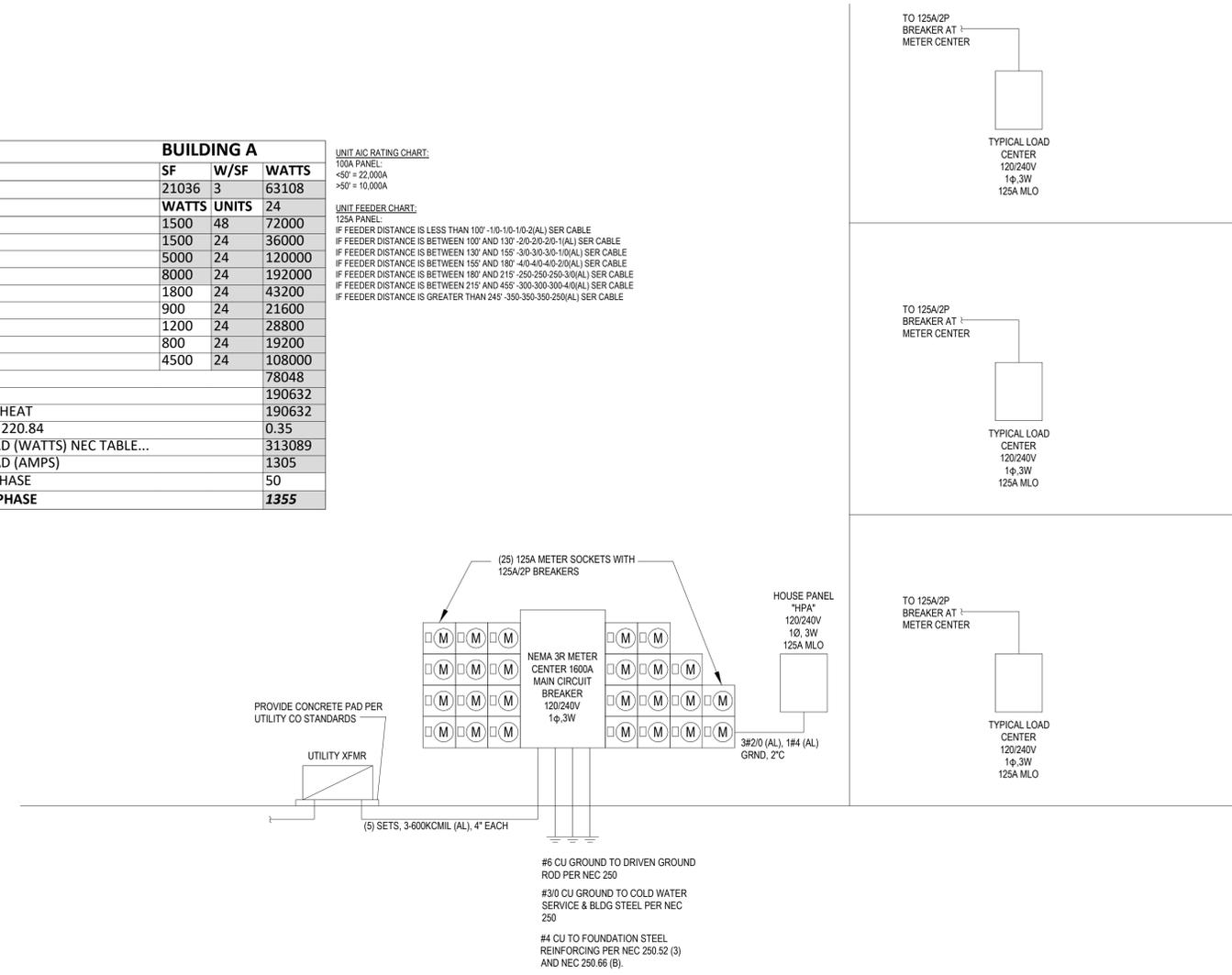
Panel Totals	
Connected Load:	11 kVA
Demand Load:	11893 VA
Demand Current:	49.6 A
Less HEAT/COOL NC...:	0.0 A
Total Demand Current:	49.6 A

Notes: GF = GFCI BREAKER, AF = AFCI BREAKER, HL = HANDLE LOCK

NEC 220.84	BUILDING A		
	SF	W/SF	WATTS
GENERAL LIGHTING	21036	3	63108
		WATTS	UNITS
SMALL APPLIANCE	1500	48	72000
LAUNDRY	1500	24	36000
CLOTHES DRYER	5000	24	120000
RANGE/OVEN	8000	24	192000
MICROWAVE	1800	24	43200
DISPOSAL	900	24	21600
DISHWASHER	1200	24	28800
REFRIGERATOR	800	24	19200
WATER HEATER	4500	24	108000
AIR CONDITIONING			78048
HEATING			190632
DIVERSIFIED MAX OF A/C OR HEAT			190632
DEMAND FACTOR PER TABLE 220.84			0.35
TOTAL UNIT DIVERSIFIED LOAD (WATTS) NEC TABLE...			313089
TOTAL UNIT DIVERSIFIED LOAD (AMPS)			1305
HOUSE PANEL DEMAND - 1-PHASE			50
SERVICE SIZE - 120/240 V, 1-PHASE			1355

UNIT AIC RATING CHART:
100A PANEL
<50" = 22,000A
>50" = 10,000A

125A PANEL:
IF FEEDER DISTANCE IS LESS THAN 100' -1Ø-1Ø-1Ø-2(AL) SER CABLE
IF FEEDER DISTANCE IS BETWEEN 100' AND 130' -2Ø-2Ø-2Ø-1(AL) SER CABLE
IF FEEDER DISTANCE IS BETWEEN 130' AND 155' -3Ø-3Ø-3Ø-1Ø(AL) SER CABLE
IF FEEDER DISTANCE IS BETWEEN 155' AND 180' -4Ø-4Ø-4Ø-2Ø(AL) SER CABLE
IF FEEDER DISTANCE IS BETWEEN 180' AND 215' -2Ø-2Ø-2Ø-3Ø(AL) SER CABLE
IF FEEDER DISTANCE IS BETWEEN 215' AND 455' -3Ø-3Ø-3Ø-4Ø(AL) SER CABLE
IF FEEDER DISTANCE IS GREATER THAN 245' -3Ø-3Ø-3Ø-2Ø(AL) SER CABLE



1 ELECTRICAL RISER DIAGRAM - BLDG A
E3.01A 1/8" = 1'-0"

A NEW APARTMENT COMMUNIT AT:
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NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
• 03/23/2024 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS

JOB NO. 740623 DATE 04.19.24
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SHEET NAME ELECTRICAL SCHEDULES & RISER BUILDING A
SHEET NO. E3.01A

MISSOURI PE COA #2009003629

BC ENGINEERS INCORPORATED
5720 Reeder Shawnee, KS 66203 (913)262-1772

Load Center: HPC

Location: WATER 242
Supply: Surface
Mounting: Surface
Enclosure: NEMA 1

Voltage: 240 V, 1Ø, 3W
Bus Rating: 125 A
Neutral: 100%
Feed-Thru: No
Features & Modifications: -

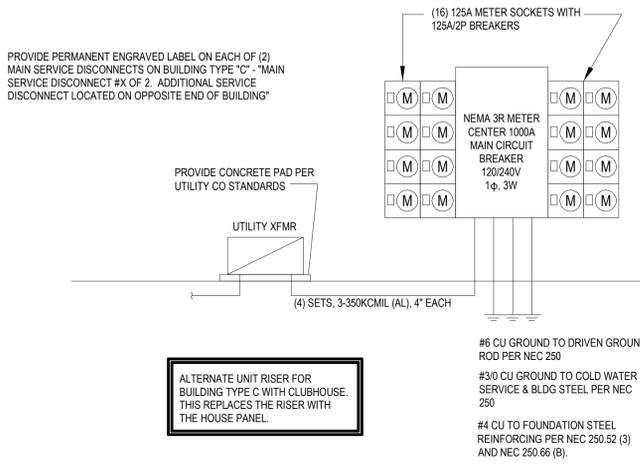
Mains Type: MLO
Mains Rating: 125 A
Mains FN/Note: -
SCCR: 10 KA

Ckt	Description	Trip (A)	Poles	Wire	A	B	A	B	Wire	Poles	Trip (A)	Description	Ckt
1	SITE LIGHTING	20	1	#12	1583		532		#12	1	20	3RD FLR HALL LIGHTS/REC.	2
3	WP/GFI RECEPTACLES	20	1	#12		1080		757	#12	1	20	1ST FLR HALL LIGHTS/REC.	4
5	2ND FLR HALL LIGHTS/REC.	20	1	#12	626		1500		#12	2	20	ELECTRIC WALL HEATER	6
7	GARAGE PANEL	60	2	#4		1410		1500	#12	2	20	RADON RECEPTACLES	10
9	FIRE ALARM CONTROL...	20	1	#12		360		1080	#12	1	20	RADON RECEPTACLES	12
13	SPARE	20	1		0		0			1	20	SPARE	14
15	SPARE	20	1		0		0			1	20	SPARE	16
17	SPARE	20	1		0		0			1	20	SPARE	18

Connected Load: 6 kVA
Connected Current: 53 A

Panel Totals
Connected Load: 13 kVA
Demand Load: 13980 VA
Demand Current: 58.2 A
Less HEAT/COOL NC... 0.0 A
Total Demand Current: 58.2 A

Notes: GF = GFCI BREAKER, AF = AFCI BREAKER, HL = HANDLE LOCK



NEC 220.84

	SF	W/SF	WATTS
GENERAL LIGHTING	12884	3	38652
		WATTS UNITS	16
SMALL APPLIANCE	1500	32	48000
LAUNDRY	1500	16	24000
CLOTHES DRYER	5000	16	80000
RANGE/OVEN	8000	16	128000
MICROWAVE	1200	16	19200
DISPOSAL	900	16	14400
DISHWASHER	1200	16	19200
REFRIGERATOR	800	16	12800
WATER HEATER	4500	16	72000
AIR CONDITIONING			49824
HEATING			119744
DIVERSIFIED MAX OF A/C OR HEAT			119744
DEMAND FACTOR PER TABLE 220.84			0.39
TOTAL UNIT DIVERSIFIED LOAD (WATTS) NEC TABLE...			224638
TOTAL UNIT DIVERSIFIED LOAD (AMPS)			936

UNIT AIC RATING CHART:
125A PANEL:
<50' = 22,000A
>50' = 10,000A

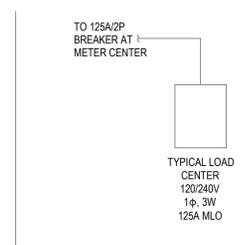
UNIT FEEDER CHART:
125A PANEL:
IF FEEDER DISTANCE IS LESS THAN 100' -1Ø-1Ø-1Ø-2(AL) SER CABLE
IF FEEDER DISTANCE IS BETWEEN 100' AND 130' -2Ø-2Ø-2Ø-1(AL) SER CABLE
IF FEEDER DISTANCE IS BETWEEN 130' AND 155' -3Ø-3Ø-3Ø-1Ø(AL) SER CABLE
IF FEEDER DISTANCE IS BETWEEN 155' AND 180' -4Ø-4Ø-4Ø-2Ø(AL) SER CABLE
IF FEEDER DISTANCE IS BETWEEN 180' AND 215' -25Ø-25Ø-25Ø-3Ø(AL) SER CABLE
IF FEEDER DISTANCE IS BETWEEN 215' AND 455' -30Ø-30Ø-30Ø-4Ø(AL) SER CABLE
IF FEEDER DISTANCE IS GREATER THAN 245' -35Ø-35Ø-35Ø-25Ø(AL) SER CABLE

NEC 220.84

	SF	W/SF	WATTS
GENERAL LIGHTING	14928	3	44784
		WATTS UNITS	18
SMALL APPLIANCE	1500	36	54000
LAUNDRY	1500	18	27000
CLOTHES DRYER	5000	18	90000
RANGE/OVEN	8000	18	144000
MICROWAVE	1200	18	21600
DISPOSAL	900	18	16200
DISHWASHER	1200	18	21600
REFRIGERATOR	800	18	14400
WATER HEATER	4500	18	81000
AIR CONDITIONING			56880
HEATING			137712
DIVERSIFIED MAX OF A/C OR HEAT			137712
DEMAND FACTOR PER TABLE 220.84			0.38
TOTAL UNIT DIVERSIFIED LOAD (WATTS) NEC TABLE...			247872
TOTAL UNIT DIVERSIFIED LOAD (AMPS)			1033
HOUSE PANEL DEMAND - 1-PHASE			40
SERVICE SIZE - 120/240 V, 1-PHASE			1073

UNIT AIC RATING CHART:
125A PANEL:
<50' = 22,000A
>50' = 10,000A

UNIT FEEDER CHART:
125A PANEL:
IF FEEDER DISTANCE IS LESS THAN 100' -1Ø-1Ø-1Ø-2(AL) SER CABLE
IF FEEDER DISTANCE IS BETWEEN 100' AND 130' -2Ø-2Ø-2Ø-1(AL) SER CABLE
IF FEEDER DISTANCE IS BETWEEN 130' AND 155' -3Ø-3Ø-3Ø-1Ø(AL) SER CABLE
IF FEEDER DISTANCE IS BETWEEN 155' AND 180' -4Ø-4Ø-4Ø-2Ø(AL) SER CABLE
IF FEEDER DISTANCE IS BETWEEN 180' AND 215' -25Ø-25Ø-25Ø-3Ø(AL) SER CABLE
IF FEEDER DISTANCE IS BETWEEN 215' AND 455' -30Ø-30Ø-30Ø-4Ø(AL) SER CABLE
IF FEEDER DISTANCE IS GREATER THAN 245' -35Ø-35Ø-35Ø-25Ø(AL) SER CABLE

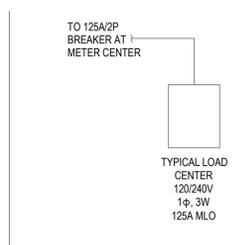


NEC 220.84

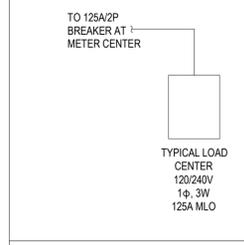
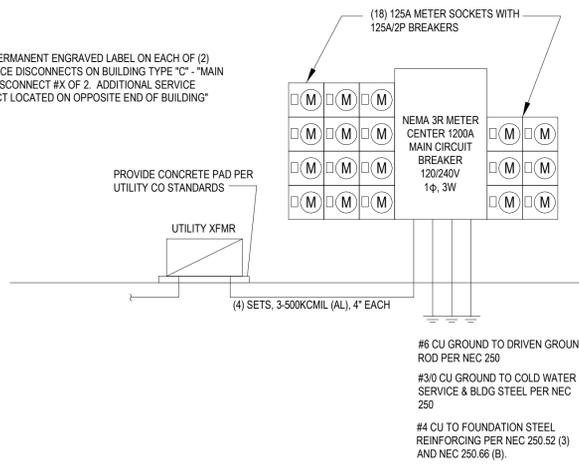
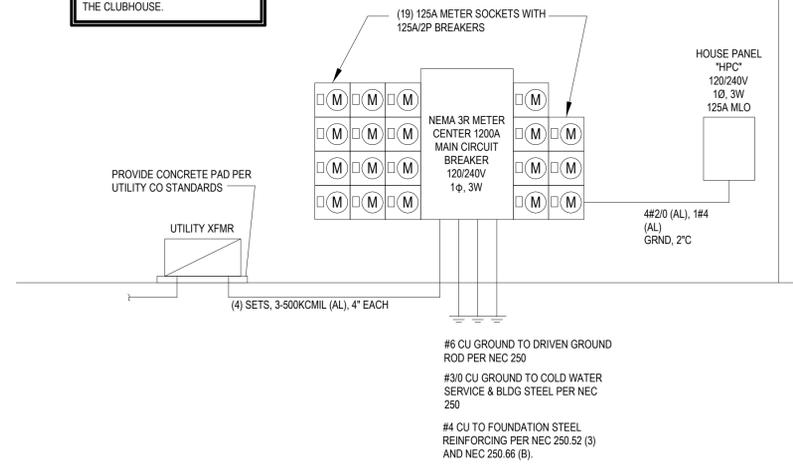
	SF	W/SF	WATTS
GENERAL LIGHTING	14928	3	44784
		WATTS UNITS	18
SMALL APPLIANCE	1500	36	54000
LAUNDRY	1500	18	27000
CLOTHES DRYER	5000	18	90000
RANGE/OVEN	8000	18	144000
MICROWAVE	1200	18	21600
DISPOSAL	900	18	16200
DISHWASHER	1200	18	21600
REFRIGERATOR	800	18	14400
WATER HEATER	4500	18	81000
AIR CONDITIONING			56880
HEATING			137712
DIVERSIFIED MAX OF A/C OR HEAT			137712
DEMAND FACTOR PER TABLE 220.84			0.38
TOTAL UNIT DIVERSIFIED LOAD (WATTS) NEC TABLE...			247872
TOTAL UNIT DIVERSIFIED LOAD (AMPS)			1033
SERVICE SIZE - 120/240 V, 1-PHASE			1073

UNIT AIC RATING CHART:
125A PANEL:
<50' = 22,000A
>50' = 10,000A

UNIT FEEDER CHART:
125A PANEL:
IF FEEDER DISTANCE IS LESS THAN 100' -1Ø-1Ø-1Ø-2(AL) SER CABLE
IF FEEDER DISTANCE IS BETWEEN 100' AND 130' -2Ø-2Ø-2Ø-1(AL) SER CABLE
IF FEEDER DISTANCE IS BETWEEN 130' AND 155' -3Ø-3Ø-3Ø-1Ø(AL) SER CABLE
IF FEEDER DISTANCE IS BETWEEN 155' AND 180' -4Ø-4Ø-4Ø-2Ø(AL) SER CABLE
IF FEEDER DISTANCE IS BETWEEN 180' AND 215' -25Ø-25Ø-25Ø-3Ø(AL) SER CABLE
IF FEEDER DISTANCE IS BETWEEN 215' AND 455' -30Ø-30Ø-30Ø-4Ø(AL) SER CABLE
IF FEEDER DISTANCE IS GREATER THAN 245' -35Ø-35Ø-35Ø-25Ø(AL) SER CABLE



SEE ALTERNATE UNIT RISER THIS SHEET FOR BUILDING TYPE C WITH CLUBHOUSE. THIS RISER IS REPLACED FOR THE BUILDING WITH THE CLUBHOUSE.



A NEW APARTMENT COMMUNIT AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
• 0323/024 100% CD Set
• 0322/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS

JOB NO. 740623
DRAWN BY DS/BJK
CD SET/PERMIT

DATE 04.19.24

MISSOURI PE COA #2009003629

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BC ENGINEERS INCORPORATED
5720 Reeder Shawnee, KS 66203 (913)262-1772

SHEET NAME
ELECTRICAL SCHEDULES &
RISER BUILDING C
SHEET NO.

E3.01C



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9415 NALL AVE., #300
PRAIRIE VILLAGE,
KANSAS, 66207

8/30/2024



A NEW APARTMENT COMMUNIT AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
• 02/22/24 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS

JOB NO. DATE
740623 **04.19.24**
DRAWN BY
DS/BK
CD SET/PERMIT

SHEET NAME
ELECTRICAL SCHEDULES

SHEET NO.
E4.01

MISSOURI PE COA #200903629
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5720 Reeder Shawnee, KS 66203 (913)262-1772

Load Center: B1

Location: BEDROOM 180
Supply: Flush
Mounting: Flush
Enclosure: NEMA 1

Voltage: 240 V, 10, 3W
Bus Rating: 125 A
Neutral: 100%
Feed-Thru... No
Features & Modifications: -

Mains Type: MLO
Mains Rating: 125 A
Mains FN/Note: -
SCCR: 10 kA

Ckt	Description	Trip (A)	Poles	Wire	A	B	A	B	Wire	Poles	Trip (A)	Description	Ckt
1	SMOKE DETECTORS [AF][HL]	15	1	14	10		1500		12	1	20	SMALL APPLIANCE [AF]	2
3	DATA PANEL REC. [AF]	15	1	14		180		1500	12	1	20	SMALL APPLIANCE [AF]	4
5	CLOTHES DRYER	30	2	10	2500		4000		6	2	50	ELECTRIC RANGE/OVEN	6
7						2500	4000	4000	8				8
9	LAUNDRY [AF][GF]	20	1	12	1500		1800		12	1	20	MICROWAVE [AF]	10
11	REFRIGERATOR [AF]	20	1	12		800		1200	14	1	15	DISHWASHER [AF][GF]	12
13	LIGHTS [AF]	15	1	14	481		900		14	1	15	GARBAGE DISPOSAL [AF][GF]	14
15	BATHROOM RECEPTACLE	20	1	12		180		2250	10	2	25	WATER HEATER	16
17	BEDROOM RECEPTACLES [AF]	15	1	14	900		2250		10	2	25	WATER HEATER	18
19	LIVING RM / PATIO REC [AF]	15	1	14		720		3492	8	2	40	AIR HANDLING UNIT [HLF]	20
21	CONDENSING UNIT (CU-B1)	25	2	12	1009		3492		0	1	15	SPARE [AF]	22
23						1009	0	--	1				15

Connected Load: 20341 VA
Connected Current: 170 A 17831 VA 148.6 A

Load Classification	Connected	Factor	Demand
WATER HEATER 220.82B3d	4500 VA	100.00%	4500 VA
SMALL APPLIANCE 220.82B2	3000 VA	100.00%	3000 VA
CLOTHES DRYER 220.82B3c	5000 VA	100.00%	5000 VA
LAUNDRY 220.82B2	1500 VA	100.00%	1500 VA
RANGE/OVEN 220.82B3b	8000 VA	100.00%	8000 VA
SPACE HEAT 220.82C4	6984 VA	65.00%	4540 VA
FIXED APPLIANCE 220.82B3a	4700 VA	100.00%	4700 VA
AIR CONDITIONING 220.82C1	2018 VA	100.00%	2018 VA

Panel Totals
Connected Load: 38172 W
Less of HEAT/COOL: 2018 W
Demand w/o 220.82(A): 33413 W
Demand Load: 22089 W
Total Demand Current: 95.4 A

Notes:
[AF] - AFCI BREAKER
[GF] - GFCI BREAKER 5mA
[HL] - HANDLE LOCK ON
[HLF] - HANDLE LOCK OFF
TOTAL SF = 1,022; 3 W/SF = 3,066 W

Load Center: B1A

Location: BEDROOM 220
Supply: Flush
Mounting: Flush
Enclosure: NEMA 1

Voltage: 240 V, 10, 3W
Bus Rating: 125 A
Neutral: 100%
Feed-Thru... No
Features & Modifications: -

Mains Type: MLO
Mains Rating: 125 A
Mains FN/Note: -
SCCR: 10 kA

Ckt	Description	Trip (A)	Poles	Wire	A	B	A	B	Wire	Poles	Trip (A)	Description	Ckt
1	SMOKE DETECTORS [AF][HL]	15	1	14	10		1500		12	1	20	SMALL APPLIANCE [AF]	2
3	DATA PANEL REC. [AF]	15	1	14		180		1500	12	1	20	SMALL APPLIANCE [AF]	4
5	CLOTHES DRYER	30	2	10	2500		4000		6	2	50	ELECTRIC RANGE/OVEN	6
7						2500	4000	4000	8				8
9	LAUNDRY [AF][GF]	20	1	14	1500		1800		12	1	20	MICRO / RANGE HOOD [AF][GF]	10
11	REFRIGERATOR [AF]	20	1	12		800		1200	14	1	15	DISHWASHER [AF][GF]	12
13	LIGHTS [AF]	15	1	14	492		800		14	1	15	GARBAGE DISPOSAL [AF][GF]	14
15	BATHROOM RECEPTACLES	20	1	12		180		2250	10	2	25	WATER HEATER	16
17	BEDROOM RECEPTACLES [AF]	15	1	14	900		2250		10	2	25	WATER HEATER	18
19	LIVING RM / PAT. / HALL REC [AF]	15	1	14		720		3492	8	2	40	AIR HANDLING UNIT [HLF]	20
21	CONDENSING UNIT (CU-B1)	25	2	12	1238		4492		6	2	50	AIR HANDLING UNIT [HLF]	22
23						1238	4492	1080	14				1

Connected Load: 22095 VA
Connected Current: 184 A 20100 VA 167.5 A

Load Classification	Connected	Factor	Demand
WATER HEATER 220.82B3d	4500 VA	100.00%	4500 VA
SMALL APPLIANCE 220.82B2	3000 VA	100.00%	3000 VA
CLOTHES DRYER 220.82B3c	5000 VA	100.00%	5000 VA
LAUNDRY 220.82B2	1500 VA	100.00%	1500 VA
RANGE/OVEN 220.82B3b	8000 VA	100.00%	8000 VA
SPACE HEAT 220.82C4	8984 VA	65.00%	5840 VA
FIXED APPLIANCE 220.82B3a	4600 VA	100.00%	4600 VA
GENERAL LIGHTING B1A 220.82B1	4135 VA	73.37%	3034 VA
AIR CONDITIONING 220.82C1	2475 VA	100.00%	2475 VA

Panel Totals
Connected Load: 42194 W
Less of HEAT/COOL: 2475 W
Demand w/o 220.82(A): 35474 W
Demand Load: 23693 W
Total Demand Current: 102.8 A

Notes:
[AF] - AFCI BREAKER
[GF] - GFCI BREAKER 5mA
[HL] - HANDLE LOCK ON
[HLF] - HANDLE LOCK OFF
TOTAL SF = 1,022; 3 W/SF = 3,066 W

Load Center: A1

Location: BEDROOM 193
Supply: Flush
Mounting: Flush
Enclosure: NEMA 1

Voltage: 240 V, 10, 3W
Bus Rating: 125 A
Neutral: 100%
Feed-Thru... No
Features & Modifications: -

Mains Type: MLO
Mains Rating: 125 A
Mains FN/Note: -
SCCR: 10 kA

Ckt	Description	Trip (A)	Poles	Wire	A	B	A	B	Wire	Poles	Trip (A)	Description	Ckt
1	SMOKE DETECTORS [AF][HL]	15	1	14	10		1500		12	1	20	SMALL APPLIANCE [AF]	2
3	DATA PANEL REC. [AF]	15	1	14		180		1500	12	1	20	SMALL APPLIANCE [AF]	4
5	CLOTHES DRYER	30	2	10	2500		4000		6	2	50	ELECTRIC RANGE/OVEN	6
7						2500	4000	4000	8				8
9	LAUNDRY [AF][GF]	20	1	12	1500		1800		12	1	20	MICROWAVE [AF]	10
11	REFRIGERATOR [AF]	20	1	12		800		1200	14	1	15	DISHWASHER [AF][GF]	12
13	LIGHTS [AF]	15	1	14	481		900		14	1	15	GARBAGE DISPOSAL [AF][GF]	14
15	BATHROOM RECEPTACLE	20	1	12		180		2250	10	2	25	WATER HEATER	16
17	BEDROOM RECEPTACLES [AF]	15	1	14	900		2250		10	2	25	WATER HEATER	18
19	LIVING RM / PATIO REC [AF]	15	1	14		720		3492	8	2	40	AIR HANDLING UNIT [HLF]	20
21	CONDENSING UNIT (CU-A1)	20	2	12	1009		3492		0	1	15	SPARE [AF]	22
23						1009	0	--	1				15

Connected Load: 20341 VA
Connected Current: 170 A 17831 VA 148.6 A

Load Classification	Connected	Factor	Demand
WATER HEATER 220.82B3d	4500 VA	100.00%	4500 VA
SMALL APPLIANCE 220.82B2	3000 VA	100.00%	3000 VA
GENERAL LIGHTING A1 220.82B1	2471 VA	87.97%	2173 VA
CLOTHES DRYER 220.82B3c	5000 VA	100.00%	5000 VA
LAUNDRY 220.82B2	1500 VA	100.00%	1500 VA
RANGE/OVEN 220.82B3b	8000 VA	100.00%	8000 VA
SPACE HEAT 220.82C4	6984 VA	65.00%	4540 VA
FIXED APPLIANCE 220.82B3a	4700 VA	100.00%	4700 VA
AIR CONDITIONING 220.82C1	2018 VA	100.00%	2018 VA

Panel Totals
Connected Load: 38172 W
Less of HEAT/COOL: 2018 W
Demand w/o 220.82(A): 33413 W
Demand Load: 22089 W
Total Demand Current: 95.4 A

Notes:
[AF] - AFCI BREAKER
[GF] - GFCI BREAKER 5mA
[HL] - HANDLE LOCK ON
[HLF] - HANDLE LOCK OFF
TOTAL SF = 731; 3 W/SF = 2,193 W

Load Center: A1A

Location: KITCHEN 228
Supply: Flush
Mounting: Flush
Enclosure: NEMA 1

Voltage: 240 V, 10, 3W
Bus Rating: 125 A
Neutral: 100%
Feed-Thru... No
Features & Modifications: -

Mains Type: MLO
Mains Rating: 125 A
Mains FN/Note: -
SCCR: 10 kA

Ckt	Description	Trip (A)	Poles	Wire	A	B	A	B	Wire	Poles	Trip (A)	Description	Ckt
1	SMOKE DETECTORS [AF][HL]	15	1	14	10		1500		12	1	20	SMALL APPLIANCE [AF]	2
3	DATA PANEL REC. [AF]	15	1	14		180		1500	12	1	20	SMALL APPLIANCE [AF]	4
5	CLOTHES DRYER	30	2	10	2500		4000		6	2	50	ELECTRIC RANGE/OVEN	6
7						2500	4000	4000	8				8
9	LAUNDRY [AF][GF]	20	1	12	1500		1800		12	1	20	MICRO / RANGE HOOD [AF][GF]	10
11	REFRIGERATOR [AF]	20	1	12		800		1200	14	1	15	DISHWASHER [AF][GF]	12
13	LIGHTS [AF]	15	1	14	492		800		14	1	15	GARBAGE DISPOSAL [AF][GF]	14
15	BATHROOM RECEPTACLE	20	1	12		180		2250	10	2	25	WATER HEATER	16
17	BEDROOM RECEPTACLES [AF]	15	1	14	900		2250		10	2	25	WATER HEATER	18
19	LIVING RM / PATIO REC [AF]	15	1	14		720		3492	8	2	40	AIR HANDLING UNIT [HLF]	20
21	CONDENSING UNIT (CU-A1)	20	2	12	1009		3492		0	1	15	SPARE [AF]	22
23						1009	0	--	1				15

Connected Load: 20253 VA
Connected Current: 169 A 17831 VA 148.6 A

Load Classification	Connected	Factor	Demand
WATER HEATER 220.82B3d	4500 VA	100.00%	4500 VA
SMALL APPLIANCE 220.82B2	3000 VA	100.00%	3000 VA
CLOTHES DRYER 220.82B3c	5000 VA	100.00%	5000 VA
LAUNDRY 220.82B2	1500 VA	100.00%	1500 VA
RANGE/OVEN 220.82B3b	8000 VA	100.00%	8000 VA
SPACE HEAT 220.82C4	6984 VA	65.00%	4540 VA
FIXED APPLIANCE 220.82B3a	4600 VA	100.00%	4600 VA
GENERAL LIGHTING A1A 220.82B1	2482 VA	87.58%	2174 VA
AIR CONDITIONING 220.82C1	2018 VA	100.00%	2018 VA

Panel Totals
Connected Load: 38083 W
Less of HEAT/COOL: 2018 W
Demand w/o 220.82(A): 33313 W
Demand Load: 22049 W
Total Demand Current: 95.2 A

Notes:
[AF] - AFCI BREAKER
[GF] - GFCI BREAKER 5mA
[HL] - HANDLE LOCK ON
[HLF] - HANDLE LOCK OFF
TOTAL SF = 731; 3 W/SF = 2,193 W

Load Center: A2

Location: BEDROOM 200
Supply: Flush
Mounting: Flush
Enclosure: NEMA 1

Voltage: 240 V, 10, 3W
Bus Rating: 125 A
Neutral: 100%
Feed-Thru... No
Features & Modifications: -

Mains Type: MLO
Mains Rating: 125 A
Mains FN/Note: -
SCCR: 10 kA

Ckt	Description	Trip (A)	Poles	Wire	A	B	A	B	Wire	Poles	Trip (A)	Description	Ckt
1	SMOKE DETECTORS [AF][HL]	15	1	14	10		1500		12	1	20	SMALL APPLIANCE [AF]	2
3	DATA PANEL REC. [AF]	15	1	14		180		1500	12	1	20	SMALL APPLIANCE [AF]	4
5	CLOTHES DRYER	30	2	10	2500		4000		6	2	50	ELECTRIC RANGE/OVEN	6
7						2500	4000	4000	8				8
9	LAUNDRY [AF][GF]	20	1	12	1500		1800		12	1	20	MICROWAVE [AF]	10
11	REFRIGERATOR [AF]	20	1	12		800		1200					



8/30/2024

Panelboard: PC

Location: MECH. / I.T. 245
Supply: Mounting: Surface Enclosure: NEMA 1
Voltage: 240 V, 1Ø, 3W
Bus Rating: 600 A
Neutral: 100%
Feed-Thru... No
Features & Modifications: -
Mains Type: MCB
Mains Rating: 600 A
Mains FN/Note: -
SCCR: 10 kA

Ckt	Description	Trip (A)	Poles	Wire	A	B	A	B	Wire	Poles	Trip (A)	Description	Ckt
1	SITE LIGHTING	20	1	#12	1583		532		#12	1	20	3RD FLR HALL LIGHTS/REC.	2
3	WP/GFI RECEPTACLES	20	1	#12		1080		757	#12	1	20	1ST FLR HALL LIGHTS/REC.	4
5	2ND FLR HALL LIGHTS/REC.	20	1	#12	626		1500						6
7	GARAGE PANEL	60	2	#4		1410		1500	#12	2	20	ELECTRIC WALL HEATER	8
9					1080		1080		#12	1	20	RADON RECEPTACLES	10
11	FIRE ALARM CONTROL...	20	1	#12		360		1080	#12	1	20	RADON RECEPTACLES	12
13	LEASING OFFICE RECEPTACLES	20	1	#12	720		44		#12	1	20	LIGHTING	14
15	LEASING COUNTER RECEPT.	20	1	#12		360		1800	#12	1	20	HAND DRYER	16
17	LEASING COUNTER RECEPT.	20	1	#12		360		2250	#10	2	25	WATER HEATER WH-2	18
19	REST/MECH/PACK RECEPT	20	1	#12		720		2250					20
21	TREADMILL RECEPTACLE	20	1	#12	180		1966		#8	2	40	CONDENSING UNIT CU-245B	22
23	TREADMILL RECEPTACLE	20	1	#12		180		1966					24
25	FITNESS RECEPTACLES	20	1	#12	1080		1238		#10	2	25	CONDENSING UNIT CU-245A	26
27	LIGHTING	20	1	#12		1241		1238					28
29	PHONE BOARD RECEPTACLE	20	1	#12	360		10912		1/0	2	125	AIR HANDLING UNIT AHU-245B	30
31	WATER COOLER (GF)	20	1	#12		500		10912					32
33	RESTROOM WALL HEATER	20	2	#12		1500		5492	#4	2	60	AIR HANDLING UNIT AHU-245A	34
35						1500		5492	#12	1	20	MAIL KIOSK LIGHTING	36
37	LEASING RECEPTACLES	20	1	#12	720		67	2243					38
39	LEASING RECEPTACLES	20	1	#12		900		2243	3/0	2	200	PANEL PP	40
41	LEASING OFFICE 243 RECEPT.	20	1	#12	720		1830						42
43	FUTURE POOL BAR TVS	20	1			360		0					44
45	SPARE	20	1		0		0	0		2	70	SPARE [HL]	46
47	SPARE	20	1		0		0	0		1	20	SPARE	48
49	SPARE	20	1		0		0	0		1	20	SPARE	50
51	SPARE	20	1		0		0	0		1	20	SPARE	52
53	SPARE	20	1		0		0	0		1	20	SPARE	54

Connected Load: 36 kVA
Connected Current: 299 A

Load Classification	Connected	Factor	Demand
COOL	6406 VA	100.00%	6406 VA
HEAT	42108 VA	125.00%	52635 VA
LIGHTING	4053 VA	125.00%	5067 VA
Motor	140 VA	106.25%	149 VA
Other	3160 VA	100.00%	3160 VA
RECEPTACLE	13320 VA	87.54%	11660 VA
WATER HEATER	4500 VA	125.00%	5625 VA

Panel Totals
Connected Load: 74 kVA
Demand Load: 84702 VA
Demand Current: 352.9 A
Less HEAT/COOL NC... 26.7 A
Total Demand Current: 326.2 A

Notes: GF = GFCI BREAKER, AF = AFCI BREAKER, HL = HANDLE LOCK

Panelboard: PP

Location: POOL EQUIP. 266
Supply: PC
Mounting: Surface Enclosure: NEMA 1
Voltage: 240 V, 1Ø, 3W
Bus Rating: 200 A
Neutral: 100%
Feed-Thru... No
Features & Modifications: -
Mains Type: MLO
Mains Rating: 200 A
Mains FN/Note: -
SCCR: 10 kA

Ckt	Description	Trip (A)	Poles	Wire	A	B	A	B	Wire	Poles	Trip (A)	Description	Ckt
1	POOL EQUIP. LIGHTS	20	1	#12	93				#12	1	20	LIGHTING	2
3	POOL EQUIP. RECEPTACLE	20	1	#12		180							4
5	POOL EQUIP UNIT HEATER	20	2	#12	1650								6
7	POOL EQUIP EXHAUST FAN	20	1	#12	500		1650						8
9													10
11													12
13													14
15													16
17													18
19													20
21													22
23													24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42

Connected Load: 2 kVA
Connected Current: 19 A

Load Classification	Connected	Factor	Demand
HEAT	3300 VA	125.00%	4125 VA
LIGHTING	93 VA	125.00%	117 VA
Other	500 VA	100.00%	500 VA
RECEPTACLE	180 VA	100.00%	180 VA

Panel Totals
Connected Load: 4 kVA
Demand Load: 4922 VA
Demand Current: 20.5 A
Less HEAT/COOL NC... 0.0 A
Total Demand Current: 20.5 A

Notes: GF = GFCI BREAKER, AF = AFCI BREAKER, HL = HANDLE LOCK

Load Center: GPX

Location: MECH. 3R
Supply: Flush Enclosure: NEMA 3R
Voltage: 240 V, 1Ø, 3W
Bus Rating: 125 A
Neutral: 100%
Feed-Thru... No
Features & Modifications: -
Mains Type: MCB
Mains Rating: 60 A
Mains FN/Note: -
SCCR: 10 kA

Ckt	Description	Trip (A)	Poles	Wire	A	B	A	B	Wire	Poles	Trip (A)	Description	Ckt
1	GARAGE RECEPTACLE	20	1	#12	180		330		#12	1	20	LIGHTING	2
3	GARAGE RECEPTACLE	20	1	#12		180		540	#12	1	20	RECEPTACLE	4
5	GARAGE RECEPTACLE	20	1	#12	180		540		#12	1	20	RECEPTACLE	6
7	GARAGE RECEPTACLE	20	1	#12		180		0		1	20	SPARE	8
9	GARAGE RECEPTACLE	20	1	#12	180		0			1	20	SPARE	10
11	GARAGE RECEPTACLE	20	1	#12		180		0		1	20	SPARE	12

Connected Load: 1 kVA
Connected Current: 12 A

Load Classification	Connected	Factor	Demand
LIGHTING	330 VA	125.00%	413 VA
RECEPTACLE	2160 VA	100.00%	2160 VA

Panel Totals
Connected Load: 2 kVA
Demand Load: 2573 VA
Demand Current: 10.7 A
Less HEAT/COOL NC... 0.0 A
Total Demand Current: 10.7 A

Notes: GF = GFCI BREAKER, AF = AFCI BREAKER, HL = HANDLE LOCK

Light Fixture Schedule

TYPE	DESCRIPTION	MFR.	MODEL NUMBER	LUMEN OUTPUT	VOLTAGE	WATTS	NOTES
A	1x4 SURFACE	LITHONIA	BLT4 20L ADP E21 LP835 w/ 1X4SMKSHIP PAF	1907 lm	120 V	15 W	--
B	4" VAPOR-TIGHT LED FIXTURE WITH POLYCARBONATE LENS, EMERGENCY COLD-WEATHER BATTERY PACK AND UNIVERSAL VOLTAGE DRIVER	LITHONIA	CSVT1-48-5000LM-MVOLT-3K-STSL-IE7WCP	5000 lm	120 V	42 W	--
C	4" STRIP	LITHONIA	ZL1N L48 5000LM FST MVOLT 40K 80CRI	5000 lm	120 V	41 W	--
D1	DECORATIVE PENDANT TO BE SELECTED	TBD	SELECTED BY INTERIOR DESIGNER	1013 lm	120 V	20 W	--
D2	SURFACE MOUNTED LED DOWNLIGHT WITH FIRE-RATED JUNCTION BOX	JUNO	IC1JB-JSF-7IN	1000 lm	120 V	10 W	--
D3	CEILING FAN TO BE SELECTED	TBD	SELECTED BY INTERIOR DESIGNER	1000 lm	120 V	150 W	--
D4	EXTERIOR PATIO SCONCE TO BE SELECTED	TBD	SELECTED BY INTERIOR DESIGNER	1777 lm	120 V	15 W	--
D5	BATHROOM VANITY SCONCE TO BE SELECTED	TBD	SELECTED BY INTERIOR DESIGNER	1777 lm	120 V	15 W	--
EM	TWIN HEAD EXTERIOR RATED EMERGENCY LIGHT WITH COLD WEATHER BATTERY	LITHONIA	ELM6L UVOLT LTP	1100 lm	120 V	3 W	--
F	Z-1080 LED SMALL BLACK WALL LANTERN	PROGRESS	P560210-031-30	415 lm	120 V	11 W	--
P1	14'-6" ROUND STRAIGHT ALUMINUM POLE	LITHONIA	RSA 14' 6" 4C DM19AS	0 lm	0 V	0 W	REFERENCE POLE BASE DETAIL TOTAL 15' AFG.
P2	12'-0" ROUND STRAIGHT ALUMINUM POLE	LITHONIA	RSA 12' 4C DM19AS	0 lm	0 V	0 W	REFERENCE POLE BASE DETAIL TOTAL 15' AFG.
PL1	POLE MOUNTED LED AREA LIGHT WITH TYPE III DISTRIBUTION	LITHONIA	RSX1-LED-P2-30K-R3-MVOLT-RPA	8959 lm	120 V	73 W	MOUNT ON POLE TYPE AS INDICATED ON SITE PLAN
PL2	POLE MOUNTED LED AREA LIGHT WITH TYPE V SQUIRE DISTRIBUTION	LITHONIA	RSX1-LED-P4-30K-R5-MVOLT-RPA	15287 lm	120 V	134 W	MOUNT ON POLE TYPE AS INDICATED ON SITE PLAN
X	EXT SIGN WITH RED LETTERS ON WHITE BACKGROUND AND COLD WEATHER BATTERY	LITHONIA	LQM S 3 R 120/277 EL N	0 lm	120 V	1 W	--
XW	COMBO EMERGENCY EXIT LIGHT WITH RED LETTERS	LITHONIA	LHQM LED R HO	1045 lm	120 V	4 W	--

LIGHTING POWER DENSITY...

SPACE	SF	SPACE WATTS	WATTS / SF	OCCURANCES	PROJECT SF	PROJECT...	PROJECT...
UNIT A1	731	405	0.554	22	16082	8910	0.554
UNIT A1A	731	415	0.568	2	1462	830	0.568
UNIT A2	733	405	0.553	72	52776	29160	0.553
UNIT B1	1022	590	0.577	56	57232	33040	0.577
UNIT B1A	1022	590	0.577	2	2044	1180	0.577
GARAGE	1406	252	0.179	5	7030	1260	0.179
CLUBHOUSE	2124	998	0.470	1	2124	998	0.470
TOTAL					138750	75378	0.543

A NEW APARTMENT COMMUNIT AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086
DRAWING RELEASE LOG
• 03/22/24 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS

JOB NO. 740623
DRAWN BY DS/BK
CD SET/PERMIT
SHEET NAME ELECTRICAL SCHEDULES

SHEET NO. E4.02

MISSOURI PE COA #2009003629
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REVISIONS

JOB NO. DATE
740623 **04.19.24**
DRAWN BY
JS/BK
CD SET/PERMIT

SHEET NAME
MECHANICAL TITLE SHEET

SHEET NO.
M0.00

Mechanical Sheet Schedule	
M0.00	MECHANICAL TITLE SHEET
M1.01A	HVAC PLANS BUILDING A
M1.01C	HVAC PLANS BUILDING C
M1.05	ENLARGED MECHANICAL PLANS
M1.06	ENLARGED MECHANICAL PLANS
M1.07	CLUBHOUSE MECHANICAL PLAN
M3.01	MECHANICAL DETAILS
M4.01	MECHANICAL SCHEDULES

HVAC GENERAL NOTES

A CONTRACTOR SHALL LOCATE THERMOSTATS AND TEMPERATURE SENSORS AT 4'-0" AFF. A MINIMUM OF 8" FROM LIGHT SWITCH.

B REFER TO HVAC DRAWINGS FOR THERMOSTAT AND TEMPERATURE SENSOR LOCATIONS.

C CONDENSATE DRAINS SHALL BE SUPPLIED FOR ALL COOLING EQUIPMENT. CONTRACTOR SHALL ENSURE PROPER INSTALLATION AND DRAINAGE AS REQUIRED BY FEDERAL, STATE, AND LOCAL CODES. CONDENSATE PIPING SHALL BE TYPE "L" COPPER.

D ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE RATED FOR PRESSURE CLASS OF 2" W.G. UNLESS NOTED OTHERWISE.

E COORDINATE THE EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES WITH LIGHTING.

F PROVIDE DIFFUSERS AND REGISTERS WITH 4-WAY BLOW PATTERN UNLESS OTHERWISE NOTED.

G PROVIDE A 4" HOUSEKEEPING PAD FOR EACH PIECE OF MECHANICAL EQUIPMENT. COORDINATE SIZES WITH MECHANICAL EQUIPMENT SELECTED.

H THIS CONTRACTOR SHALL BE REQUIRED TO REPLACE FILTERS ON HVAC EQUIPMENT AFTER ALL DUST PRODUCING CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO THE FINAL PUNCH.

I INSTALL, SUPPORT, AND BRACE ALL HVAC DUCTWORK AND ACCESSORIES PER "HVAC DUCT CONSTRUCTION STANDARDS" BY SMACNA, ANSISMACNA 006-2006 AND "SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL SYSTEMS" BY SMACNA, ANSISMACNA 001-2008.

J A COPY OF "HVAC DUCT CONSTRUCTION STANDARDS" BY SMACNA, ANSISMACNA 006-2006 SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB SITE AT ALL TIMES.

K A COPY OF "SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL SYSTEMS" BY SMACNA, ANSISMACNA 001-2008 SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB SITE AT ALL TIMES.

L PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7.

M MAINTAIN MINIMUM SEPARATION BETWEEN OUTSIDE AIR INTAKES OR OTHER OPENINGS INTO THE BUILDING AND OTHER ELEMENTS AS REQUIRED AND AS FOLLOWS:

N PLUMBING VENTS AND EXHAUST OUTLETS: 10'-0" SEPARATION FROM OUTSIDE AIR INTAKES OR OTHER OPENINGS INTO THE BUILDING.

O ENVIRONMENTAL AIR OUTLETS AND DOMESTIC DRYER VENTS: 3'-0" SEPARATION FROM OUTSIDE AIR INTAKES OR OTHER OPENINGS INTO THE BUILDING.

P EXCEPT AS OTHERWISE NOTED, ALL DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED STEEL PER "HVAC DUCT CONSTRUCTION STANDARDS" BY SMACNA, ANSISMACNA 006-2006.

Q IN HIGH-HUMIDITY AREAS, INCLUDING SHOWER ROOMS, ALL DUCTWORK SHALL BE CONSTRUCTED OF ALUMINUM.

R INSULATE ALL SUPPLY AND RETURN AIR DUCTWORK AS REQUIRED BY THE INTERNATIONAL ENERGY CONSERVATION CODE.

S EXHAUST DUCTS SHALL HAVE A SMOOTH INTERIOR FINISH AND SHALL BE CONSTRUCTED OF METAL NOT LESS THAN 0.016" IN THICKNESS.

T WHERE CLOTHES DRYER EXHAUST DUCT PENETRATES A WALL OR CEILING MEMBRANE, THE ANNULAR SPACE SHALL BE SEALED WITH NONCOMBUSTIBLE MATERIAL, APPROVED FIRE CAULKING OR NONCOMBUSTIBLE DRYER EXHAUST DUCT WALL RECEPTACLE.

U CLOTHES DRYER EXHAUST DUCTS SHALL NOT PENETRATE OR BE LOCATED WITHIN ANY FIREBLOCKING, DRAFTSTOPPING OR ANY WALL, FLOOR/CEILING OR OTHER ASSEMBLY REQUIRED BY THE INTERNATIONAL CODE TO BE FIRE-RESISTANCE RATED UNLESS SUCH DUCT IS CONSTRUCTED OF GALVANIZED STEEL OF 0.016" THICK OR ALUMINUM OF 0.016" THICK AND THE FIRE RESISTANCE RATING IS MAINTAINED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE. FIRE DAMPERS, COMBINATION FIRE/SMOKE DAMPERS AND ANY SIMILAR DEVICES THAT WILL OBSTRUCT THE EXHAUST FLOW SHALL BE PROHIBITED IN CLOTHES DRYER EXHAUST DUCTS.

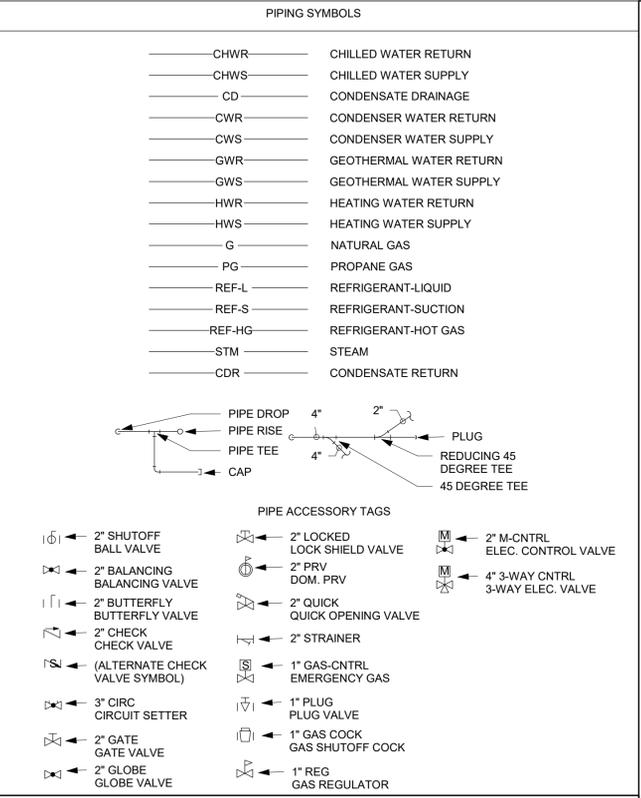
V PROTECTIVE SHIELD PLATES SHALL BE PLACED WHERE NAILS OR SCREWS FROM FINISH OR OTHER WORK ARE LIKELY TO PENETRATE THE CLOTHES DRYER EXHAUST DUCT. SHIELD PLATES SHALL BE PLACED ON THE FINISHED FACE OF ALL FRAMING MEMBERS WHERE THERE IS LESS THAN 1.25" BETWEEN THE DUCT AND THE FINISHED FACE OF THE FRAMING MEMBER. PROTECTIVE SHIELD PLATES SHALL BE CONSTRUCTED OF STEEL, HAVE A THICKNESS OF 0.062" AND EXTEND NOT LESS THAN 2" ABOVE SOLE PLATES AND BELOW TOP PLATED.

W EXHAUST DUCTS SHALL BE SUPPORTED AT 4' INTERVALS AND SECURED IN PLACE. THE INSERT END OF THE DUCT SHALL EXTEND INTO THE ADJOINING DUCT OR FITTING IN THE DIRECTION OF AIRFLOW. DUCTS SHALL NOT BE JOINED WITH SCREWS OR SIMILAR FASTENERS THAT PROTRUDE MORE THAN 0.125" INTO THE INSIDE OF THE DUCT.

X DRYER EXHAUST DUCTS CLOTHES DRYERS SHALL TERMINATE ON THE OUTSIDE OF THE BUILDING AND BE EQUIPPED WITH A BACKDRAFT DAMPER. SCREENS SHALL NOT BE INSTALLED AT THE DUCT TERMINATION. DUCTS SHALL NOT BE CONNECTED OR INSTALLED WITH SHEET METAL SCREWS OR OTHER FASTENERS THAT WILL OBSTRUCT THE EXHAUST FLOW.

Y WHERE THE EXHAUST DUCT EQUIVALENT LENGTH EXCEEDS 35 FEET, EQUIVALENT LENGTH OF THE EXHAUST DUCT SHALL BE IDENTIFIED ON A PERMANENT LABEL OR TAG. THE LABEL OR TAG SHALL BE LOCATED WITHIN 6 FEET OF THE EXHAUST DUCT CONNECTION.

Z EQUIVALENT LENGTH FOR CLOTHES DRYER EXHAUST IS CALCULATED AS THE HORIZONTAL DISTANCE PLUS THE VERTICAL DISTANCE PLUS 5' FOR EVERY 90 DEGREE ELBOW AND 2.5' FOR EVERY 45 DEGREE ELBOW.



PROJECT GENERAL NOTES

A COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, AND EQUIPMENT TO PREVENT CONFLICTS.

B FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE.

C LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.

D ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT EDITION OF ALL APPLICABLE CODES, INCLUDING LOCAL CODES AS APPLIED BY THE AUTHORITY HAVING JURISDICTION.

E ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOF.

F LOCATE DUCTWORK, PIPING AND MECHANICAL EQUIPMENT AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS, TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT.

G PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE AN APPROVED MATERIAL AS PRESCRIBED IN CFSM STANDARD 43-1 AND SHALL BE U.L. LISTED.

H PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.

I MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE. VISUAL INSPECTION OR HAND OPERATION, WHERE INDICATED OR REQUIRED, PROVIDE ACCESS PANELS OF THE TYPE SELECTED TO SUIT MATERIALS IN WHICH INSTALLED.

J ADJUST PIPING AND DUCTWORK SIZES TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT.

K REFER TO PLUMBING SERIES DRAWINGS FOR GAS AND HVAC SERIES DRAWINGS FOR A.C. CONDENSATE DRAIN PIPING.

L PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.

M FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS.

N INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.

O LOCATIONS OF PIPING, DUCTWORK AND EQUIPMENT AS INDICATED ON THE DRAWING, ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID INTERFERENCE IN THE FIELD.

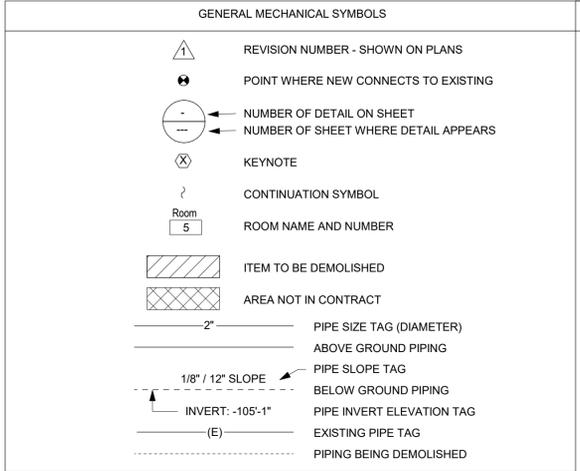
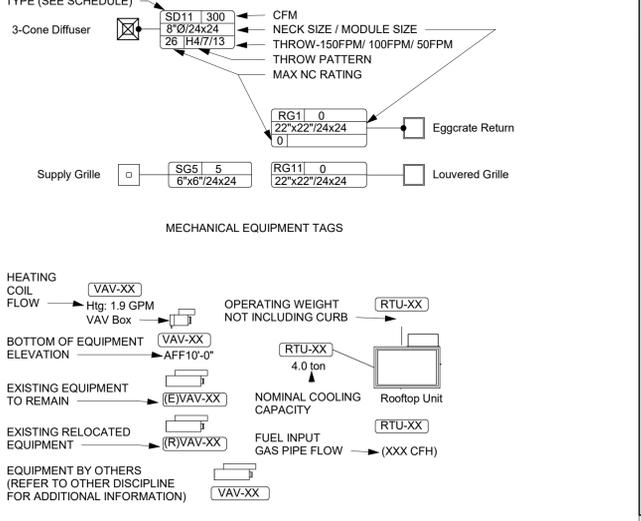
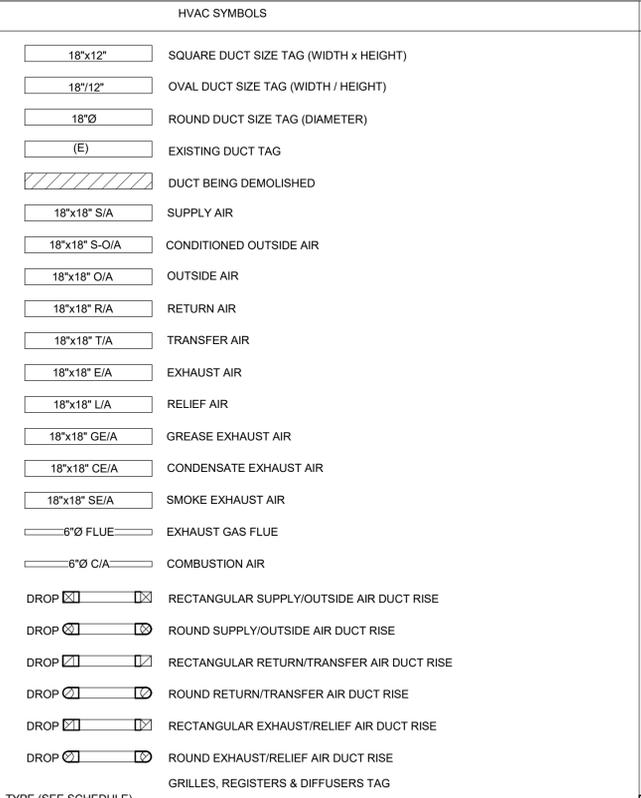
P INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.

Q THE CONTRACTOR'S WORK SCHEDULE SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER.

R PRIOR TO STARTING WORK, SUBMIT SHOP DRAWINGS FOR ALL MECHANICAL EQUIPMENT, PLUMBING FIXTURES, AND DIFFUSERS.

S CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS AS REQUIRED.

T PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE.



ABBREVIATIONS

Ø	ROUND	LVR	LOUVER
ABV	ABOVE	LWT	LEAVING WATER TEMPERATURE
AC	AIR CONDITIONING	M/A	MIXED AIR
AD	AREA DRAIN	MAX	MAXIMUM
ADD	ADDENDUM	MBH	ONE THOUSAND BTU PER HOUR
AFF	ABOVE FINISHED FLOOR	MCF	ONE THOUSAND CUBIC FEET
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MD	MOTORIZED DAMPER
ALT	ALTERNATE	MECH	MECHANICAL
AP	ACCESS PANEL	MFR	MANUFACTURER
ARCH	ARCHITECT/ARCHITECTURAL	MIN	MINIMUM
BFF	BELOW FINISHED FLOOR	MISC	MISCELLANEOUS
BLW	BELOW	MTR	MOTOR
BTU	BRITISH THERMAL UNITS	MUA	MAKE-UP/AIR
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NOISE CRITERIA
CAP	CAPACITY	NC	NORMALLY CLOSED
CB	CATCH BASIN	NC	NOT IN CONTRACT
CFM	CUBIC FEET PER MINUTE	NO	NUMBER
CLS	CEILING	NO	NORMALLY OPEN
CO	CLEAN OUT	NTS	NOT TO SCALE
CW	COLD WATER	O	OXYGEN
D	DEGREE	O/A	OUTSIDE AIR
DB	DRY BULB	ORD	OVERFLOW ROOF DRAIN
DIA	DIAMETER	PD	PRESSURE DROP
DN	DOWN	PIV	POST INDICATOR VALVE
DW	DISTILLED WATER	PLBG	PLUMBING
EA	EACH	PRESS	PRESSURE
EAT	ENTERING AIR TEMPERATURE	PRV	PRESSURE REDUCING VALVE
ELEC	ELECTRICAL	PSI	POUNDS PER SQUARE INCH
EQUIP	EQUIPMENT	PSIG	POUNDS PER SQUARE INCH GAUGE
EWC	ELECTRIC WATER COOLER	PWR	POWER
EWT	ENTERING WATER TEMPERATURE	R	DUCT RISER
E/A	EXHAUST AIR	R/A	RETURN AIR
EXIST	EXISTING	RCP	RADIANT CEILING PANEL
FCO	DEGREES FAHRENHEIT	RD	ROOF DRAIN
FD	FLOOR CLEAN OUT	REC	RECESSED
FDC	FIRE DEPARTMENT CONNECTION	RED	REDUCER
FL	FLOOR	RH	RELATIVE HUMIDITY
FO	FUEL OIL	R/A	RELIEF AIR
FOV	FUEL OIL VENT	RM	ROOM
FOR	FUEL OIL RETURN	RPM	REVOLUTIONS PER MINUTE
FOS	FUEL OIL SUPPLY	RW	RAIN WATER
FPM	FEET PER MINUTE	SF	SQUARE FOOT
FS	FLOOR SINK	S/A	SUPPLY AIR
FT	FOOT/FEET	SAN	SANITARY
FTR	FIN TUBE RADIATION	SF	SQUARE FOOT
GAL	GALLON	SD	SMOKE DAMPER
GF	GAS-FIRED	SM	SURFACE MOUNT
GC	GENERAL CONTRACTOR	SP	STANDPIPE
GPM	GALLONS PER MINUTE	SP	STATIC PRESSURE
GW	GREASE WASTE	STM	STEAM
HB	HOSE BIB	T	THERMOSTAT
HP	HORSE POWER	TD	TEMPERATURE DROP
HTG	HEATING	TDR	TRENCH DRAIN
HTR	HEATER	TEMP	TEMPERATURE
HW	HOT WATER	TYP	TYPICAL
HYD	HYDRANT	UG	UNDERGROUND
ID	INDIRECT	VAC	VACUUM
IN	INCH	V	VENT
INV	INVERT	VAV	VARIABLE AIR VOLUME
LBHR	POUNDS PER HOUR	VENT	VENTILATION
LAT	LEAVING AIR TEMPERATURE	VTR	VENT THROUGH ROOF
LP	LOW PRESSURE	W	WASTE
LPG	LIQUEFIED PETROLEUM GAS	WB	WET BULB
		WCO	WALL CLEAN OUT
		WH	WALL HYDRANT

EQUIPMENT ABBREVIATIONS

AC	AIR CONDITIONING UNIT	ET	EXPANSION TANK
ACCU	AIR COOLING CONDENSING UNIT	EWH	ELECTRIC WATER HEATER
AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT
AS	AIR SEPARATOR	FP	FIRE PUMP
B	BOILER	GI	GREASE INTERCEPTOR
CH	CHILLER	GRV	GRAVITY ROOF VENTILATOR
CT	COOLING TOWER	HWP	HEATING WATER PUMP
CUH	CABINET UNIT HEATER	HRU	HEAT RECOVERY UNIT
CHWP	CHILLED WATER PUMP	PRV	POWER ROOF VENTILATOR
DBP	DOMESTIC WATER BOOSTER PUMP	RE	RETURN/EXHAUST FAN
DC	DUCT MOUNTED COIL	RTU	ROOFTOP UNIT
DCP	DOMESTIC WATER CIRCULATING PUMP	SP	SUMP PUMP
EF	EXHAUST FAN	UH	UNIT HEATER
EDC	ELECTRIC DUCT COIL	WH	WATER HEATER

NOTE

ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.



A NEW APARTMENT COMMUNIT AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
• 03/23/24 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

△ REVISIONS

JOB NO. 740623 DATE 04.19.24
DRAWN BY DS/BK
CD SET/PERMIT

SHEET NAME HVAC PLANS BUILDING A

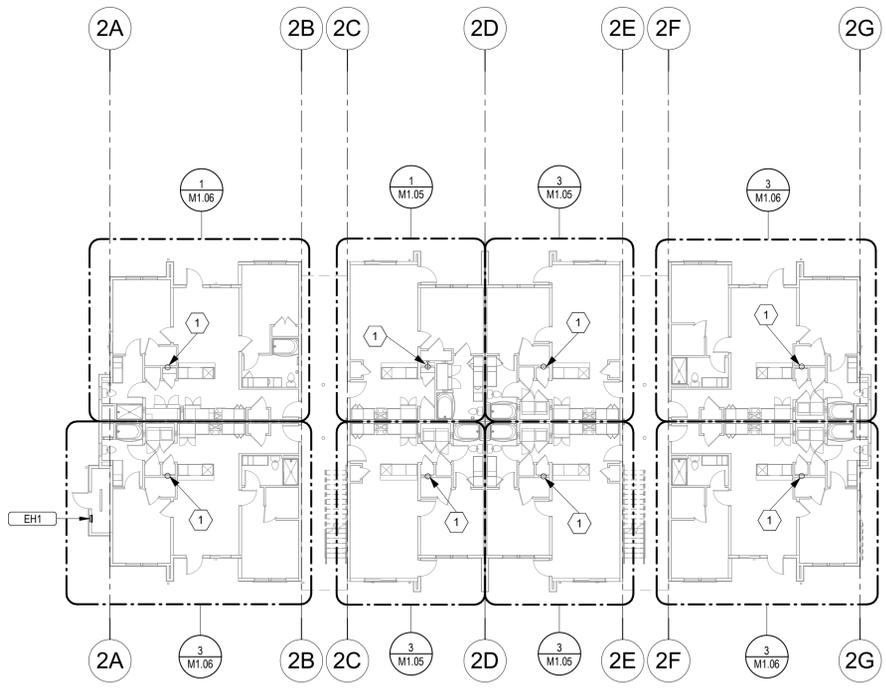
SHEET NO.

M1.01A

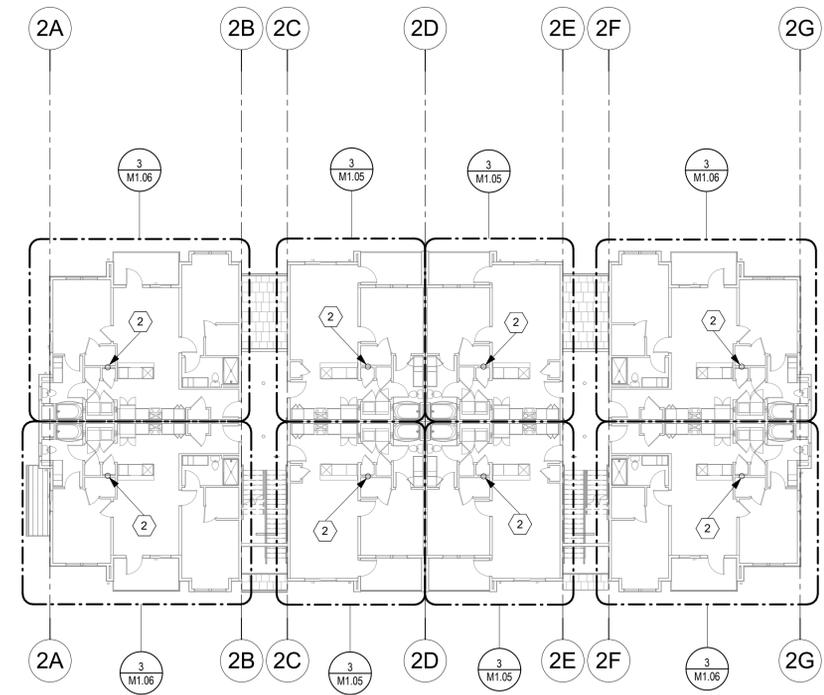
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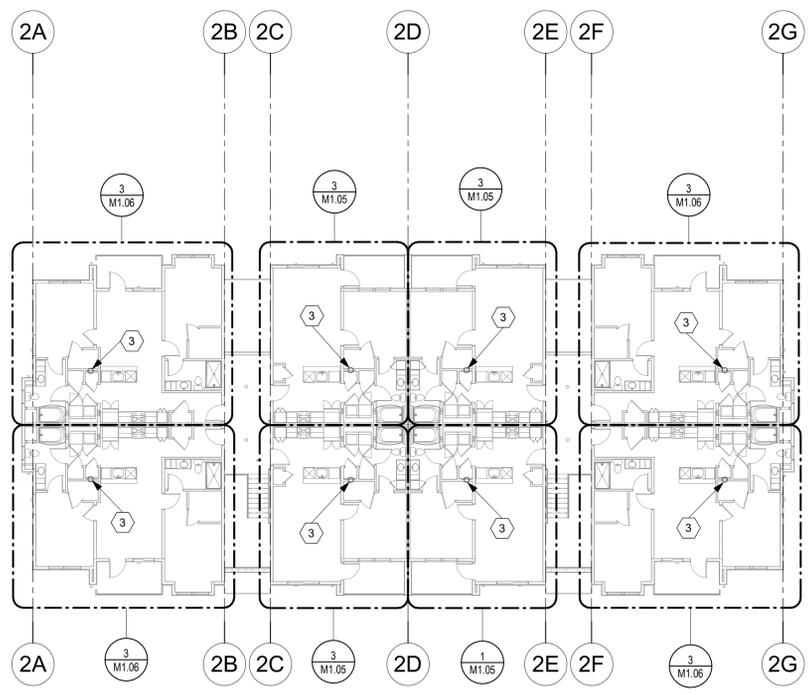
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5720 Reeder Shawnee, KS 66203 (913)262-1772



1 HVAC Plan-01-BUILDING A
M1.01A 1/16" = 1'-0"



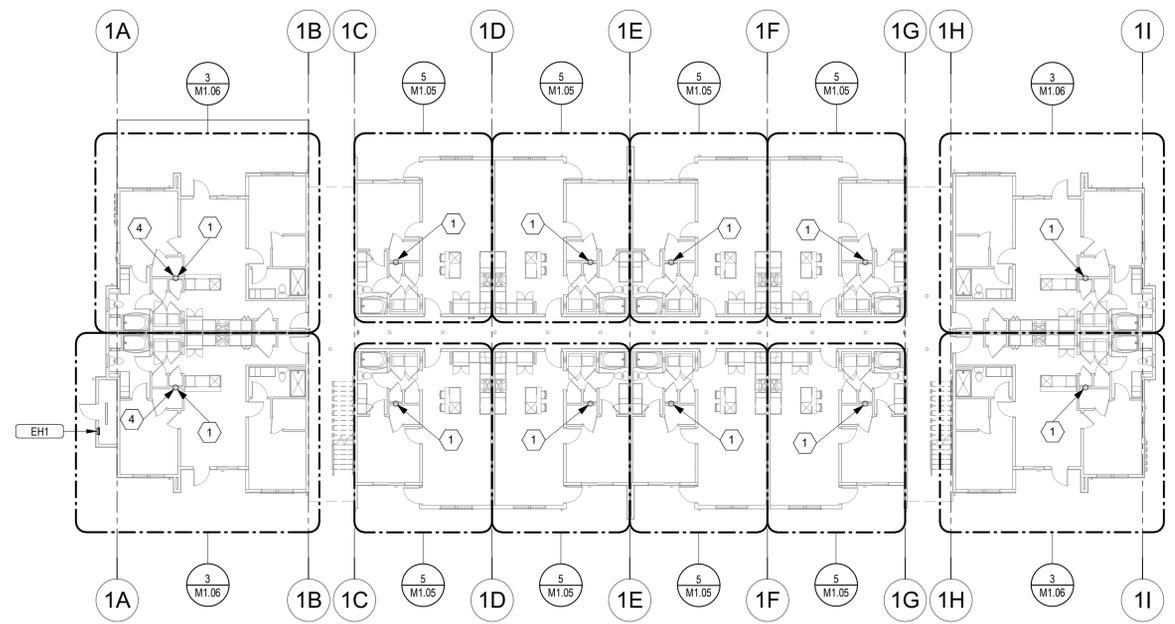
2 HVAC Plan-02-BUILDING A
M1.01A 1/16" = 1'-0"



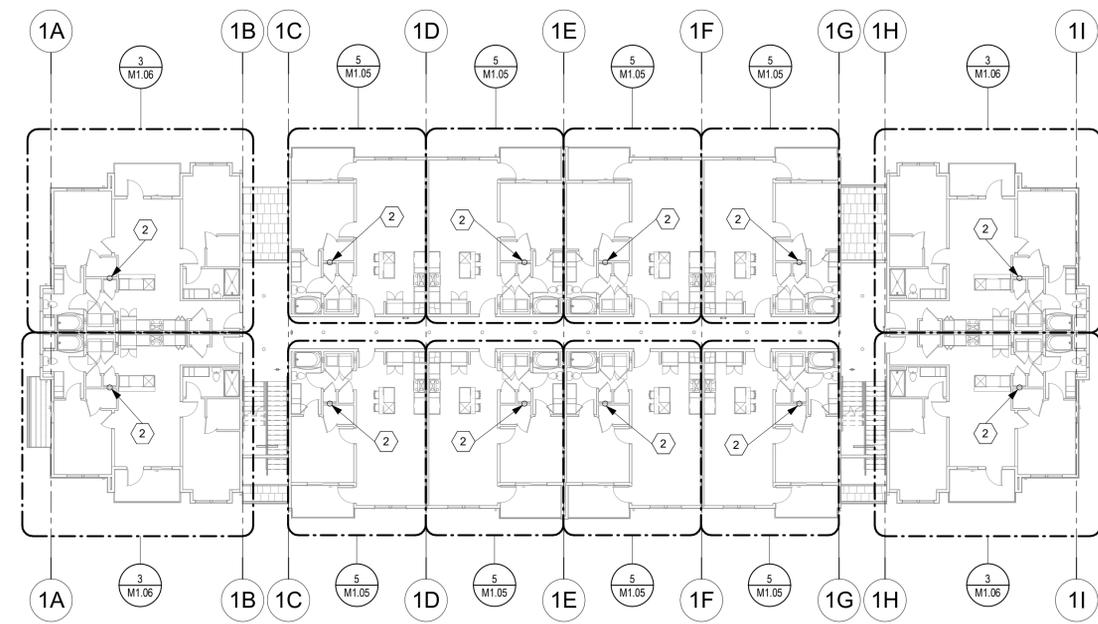
3 HVAC Plan-03-BUILDING A
M1.01A 1/16" = 1'-0"

KEYNOTES

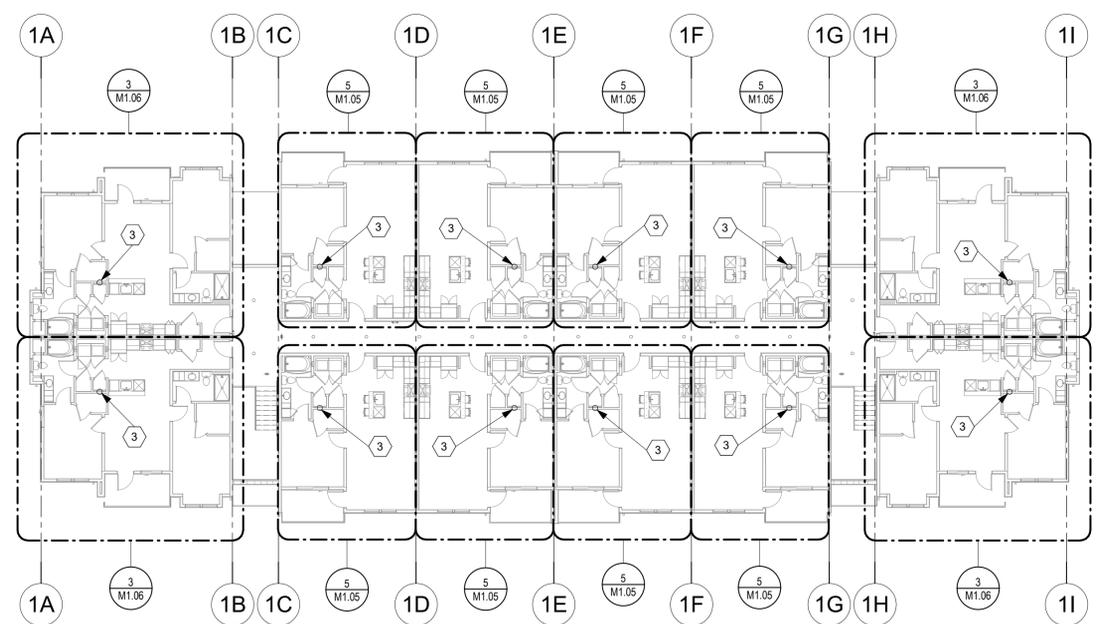
- FOR RADON MITIGATION, PROVIDE A 3-INCH-DIAMETER ABS, PVC OR EQUIVALENT GASTIGHT PIPE EMBEDDED VERTICALLY INTO THE SUBSLAB AGGREGATE OR OTHER PERMEABLE MATERIAL BEFORE THE SLAB IS CAST. A "T" FITTING SHALL BE USED TO ENSURE THAT THE PIPE OPENING REMAINS WITHIN THE SUBSLAB PERMEABLE MATERIAL. EXTEND PIPE UP TO LEVEL ABOVE.
- 3" RADON MITIGATION PIPE FROM LEVEL BELOW. EXTEND UP TO LEVEL ABOVE.
- 3" RADON MITIGATION PIPE FROM LEVEL BELOW. EXTEND UP AND TERMINATE NOT LESS THAN 12 INCHES ABOVE THE SURFACE OF THE ROOF IN A LOCATION NOT LESS THAN 10 FEET AWAY FROM ANY WINDOW OR OTHER OPENING INTO THE CONDITIONED SPACES OF THE BUILDING THAT IS LESS THAN 2 FEET BELOW THE EXHAUST POINT. EXTEND THROUGH ROOF USING SAME DETAIL AS PLUMBING VENT-THROUGH-ROOF.



1 HVAC Plan-01-BUILDING C
M1.01C 1/16" = 1'-0"



2 HVAC Plan-02-BUILDING C
M1.01C 1/16" = 1'-0"



3 HVAC Plan-03-BUILDING C
M1.01C 1/16" = 1'-0"

KEYNOTES

- FOR RADON MITIGATION, PROVIDE A 3-INCH-DIAMETER ABS, PVC OR EQUIVALENT GASTIGHT PIPE EMBEDDED VERTICALLY INTO THE SUBSLAB AGGREGATE OR OTHER PERMEABLE MATERIAL BEFORE THE SLAB IS CAST. A "T" FITTING SHALL BE USED TO ENSURE THAT THE PIPE OPENING REMAINS WITHIN THE SUBSLAB PERMEABLE MATERIAL. EXTEND PIPE UP TO LEVEL ABOVE.
- 3" RADON MITIGATION PIPE FROM LEVEL BELOW. EXTEND UP TO LEVEL ABOVE.
- 3" RADON MITIGATION PIPE FROM LEVEL BELOW. EXTEND UP AND TERMINATE NOT LESS THAN 12 INCHES ABOVE THE SURFACE OF THE ROOF IN A LOCATION NOT LESS THAN 10 FEET AWAY FROM ANY WINDOW OR OTHER OPENING INTO THE CONDITIONED SPACES OF THE BUILDING THAT IS LESS THAN 2 FEET BELOW THE EXHAUST POINT. EXTEND THROUGH ROOF USING SAME DETAIL AS PLUMBING VENT-THROUGH-ROOF.
- REFERENCE ENLARGED CLUBHOUSE HVAC PLAN ON SHEET M1.07 FOR ALTERNATE ROUTING OF RADON MITIGATION PIPING THROUGH CLUBHOUSE.

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LEE'S SUMMIT, MO 64086

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REVISIONS

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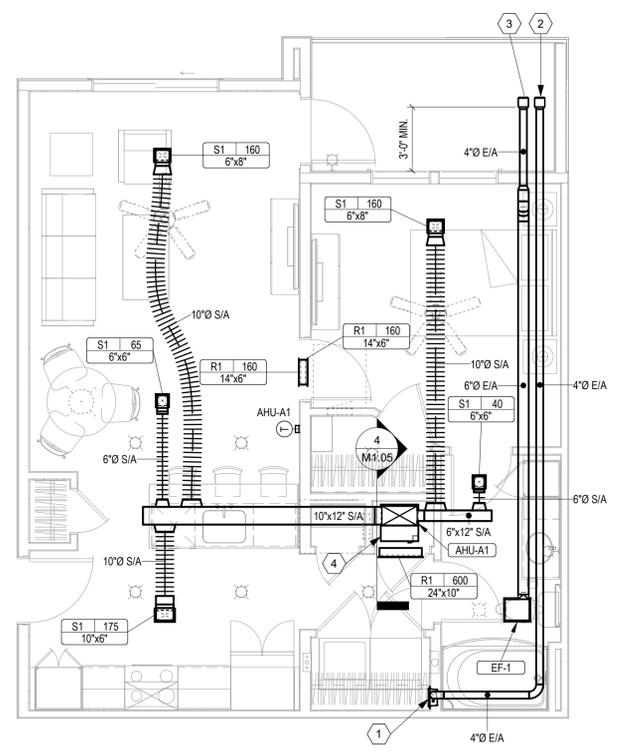
SHEET NAME HVAC PLANS BUILDING C

SHEET NO. **M1.01C**

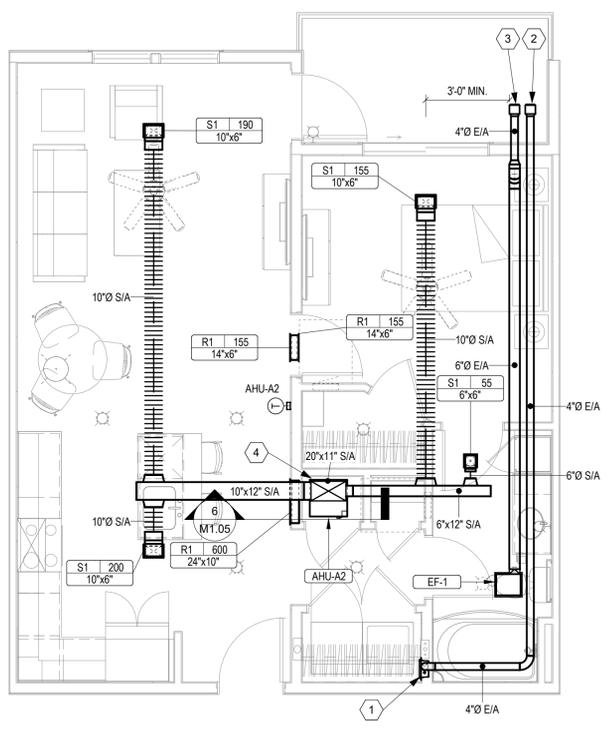


KEYNOTES

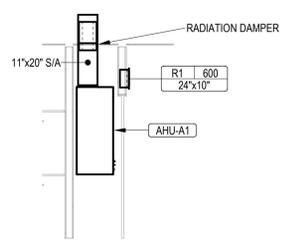
- 1 PROVIDE IN-O-VATE RECESSED DRYER VENT BOX MODEL 425 OR EQUAL.
- 2 PROVIDE BUILDER'S BEST MODEL AEV320 DRYER VENT WITH FEMAL TAIL AND FLAPPER WITHOUT SCREEN PER IBC.
- 3 PROVIDE BUILDER'S BEST EXHAUST EAWE VENT WITH SCREEN MODEL AEV324.
- 4 SUPPORT AHU FROM WALL TO ALLOW FOR WATER HEATER CLEARANCE BELOW.



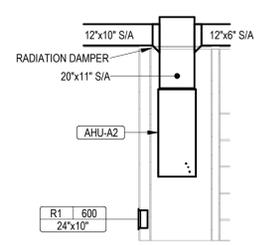
3 UNIT A1 - HVAC
M1.05 1/4" = 1'-0"



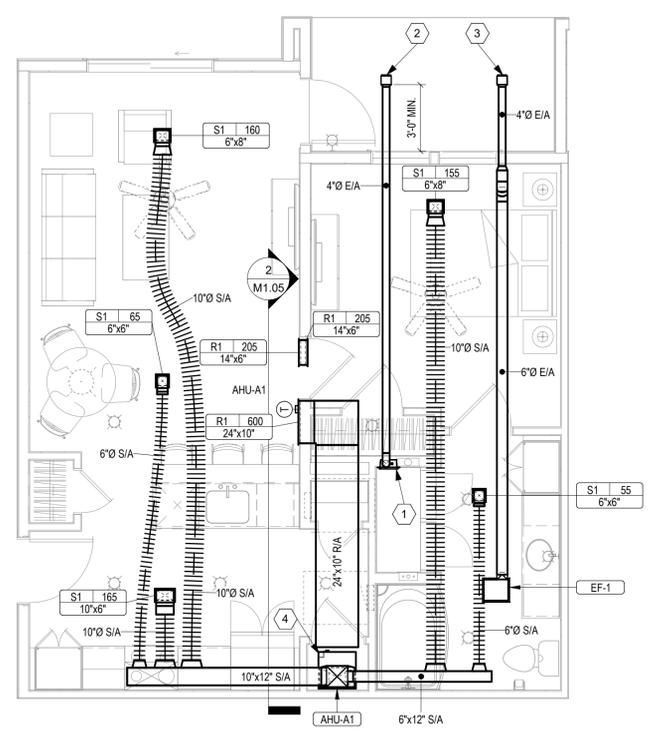
5 UNIT A2 - HVAC
M1.05 1/4" = 1'-0"



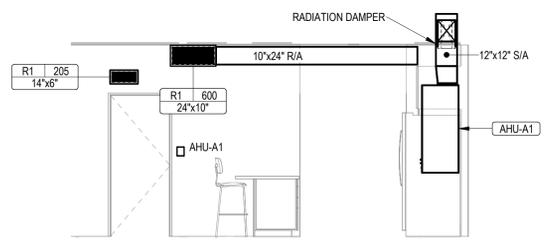
4 Unit A1 HVAC Closet Section
M1.05 1/4" = 1'-0"



6 Unit A2 HVAC Closet Section
M1.05 1/4" = 1'-0"



1 UNIT A1 ADA - HVAC
M1.05 1/4" = 1'-0"



2 Unit A1 ADA HVAC Closet Section
M1.05 1/4" = 1'-0"

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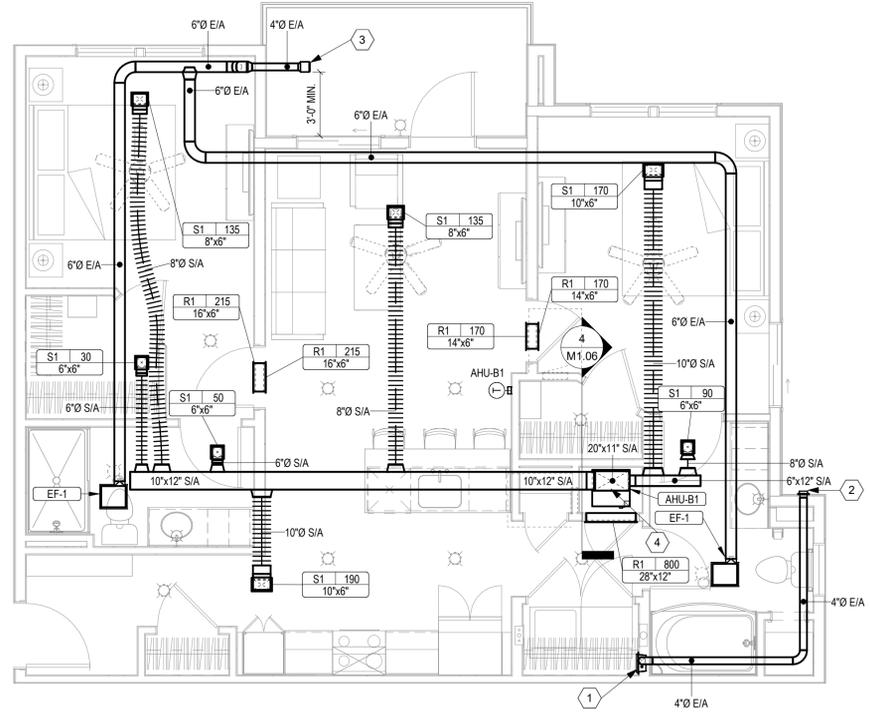
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SHEET NAME ENLARGED MECHANICAL PLANS SHEET NO. **M1.05**

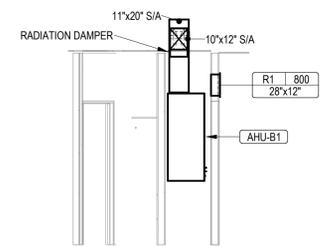


KEYNOTES

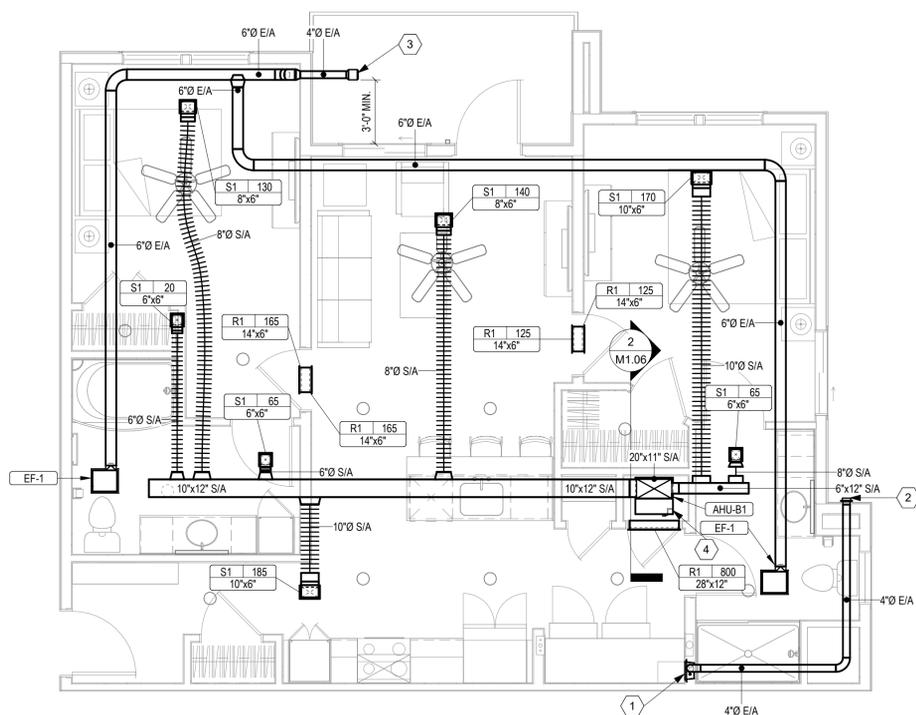
- 1 PROVIDE IN-O-VATE RECESSED DRYER VENT BOX MODEL 425 OR EQUAL.
- 2 PROVIDE IN-O-VATE DRYER WALL VENT CAP MODEL DW4 OR EQUAL, 4" WALL CAP WITH BACKDRAFT DAMPER. COORDINATE COLOR OF VENT WITH OWNER/ARCHITECT PRIOR TO ORDERING.
- 3 PROVIDE BUILDER'S BEST EXHAUST EAIVE VENT WITH SCREEN MODEL AEV324.
- 4 SUPPORT AHU FROM WALL TO ALLOW FOR WATER HEATER CLEARANCE BELOW.



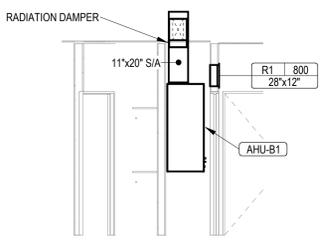
3 UNIT B1 - HVAC
1/4" = 1'-0"



4 Unit B1 HVAC Closet Section
1/4" = 1'-0"



1 UNIT B1 ADA - HVAC
1/4" = 1'-0"



2 Unit B1 ADA HVAC Closet Section
1/4" = 1'-0"

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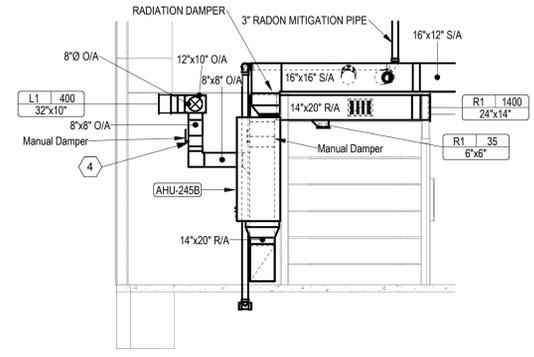
SHEET NAME ENLARGED MECHANICAL PLANS SHEET NO. **M1.06**

KEYNOTES

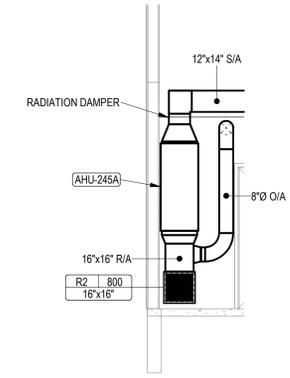
- 1 PROVIDE COOK MODEL WCR8-ALUM ROUND DUCT WALL CAP WITH DAMPER.
- 2 SUPPORT FROM STRUCTURE.
- 3 PROVIDE BALANCE DAMPER AND BALANCE OUTSIDE AIR TO 180 CFM.
- 4 PROVIDE BALANCE DAMPER AND BALANCE OUTSIDE AIR TO 230 CFM.
- 5 TURN 10" x 10" DUCT UP TO BE NO MORE THAN 12" BELOW CEILING.
- 6 FOR RADON MITIGATION, PROVIDE A 3-INCH DIAMETER ABS, PVC OR EQUIVALENT GASTIGHT PIPE EMBEDDED VERTICALLY INTO THE SUBSLAB AGGREGATE OR OTHER PERMEABLE MATERIAL BEFORE THE SLAB IS CAST. A "T" FITTING SHALL BE USED TO ENSURE THAT THE PIPE OPENING REMAINS WITHIN THE SUBSLAB PERMEABLE MATERIAL.
- 7 ROUTE 3" RADON MITIGATION PIPE AS HIGH AS POSSIBLE TO COORDINATE WITH DUCTWORK IN JOIST SPACE.
- 8 EXTEND 3" RADON MITIGATION PIPE UP TO LEVEL ABOVE.
- 9 PROVIDE 6" x 4" DUCT DOWN TO MAXIMUM OF 12" ABOVE FINISHED FLOOR. DUCT SHALL BE OPEN TO SPACE. PROVIDE BIRDSCREEN ON OPEN END OF DUCT.
- 10 THERE ARE ADDITIONAL CONDENSING UNITS LOCATED IN THIS AREA SERVING THE APARTMENTS. REFERENCE SITE PLAN ON SHEET ME1.00 FOR LOCATIONS OF ADDITIONAL CONDENSING UNITS.

nspj
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LANDSCAPE
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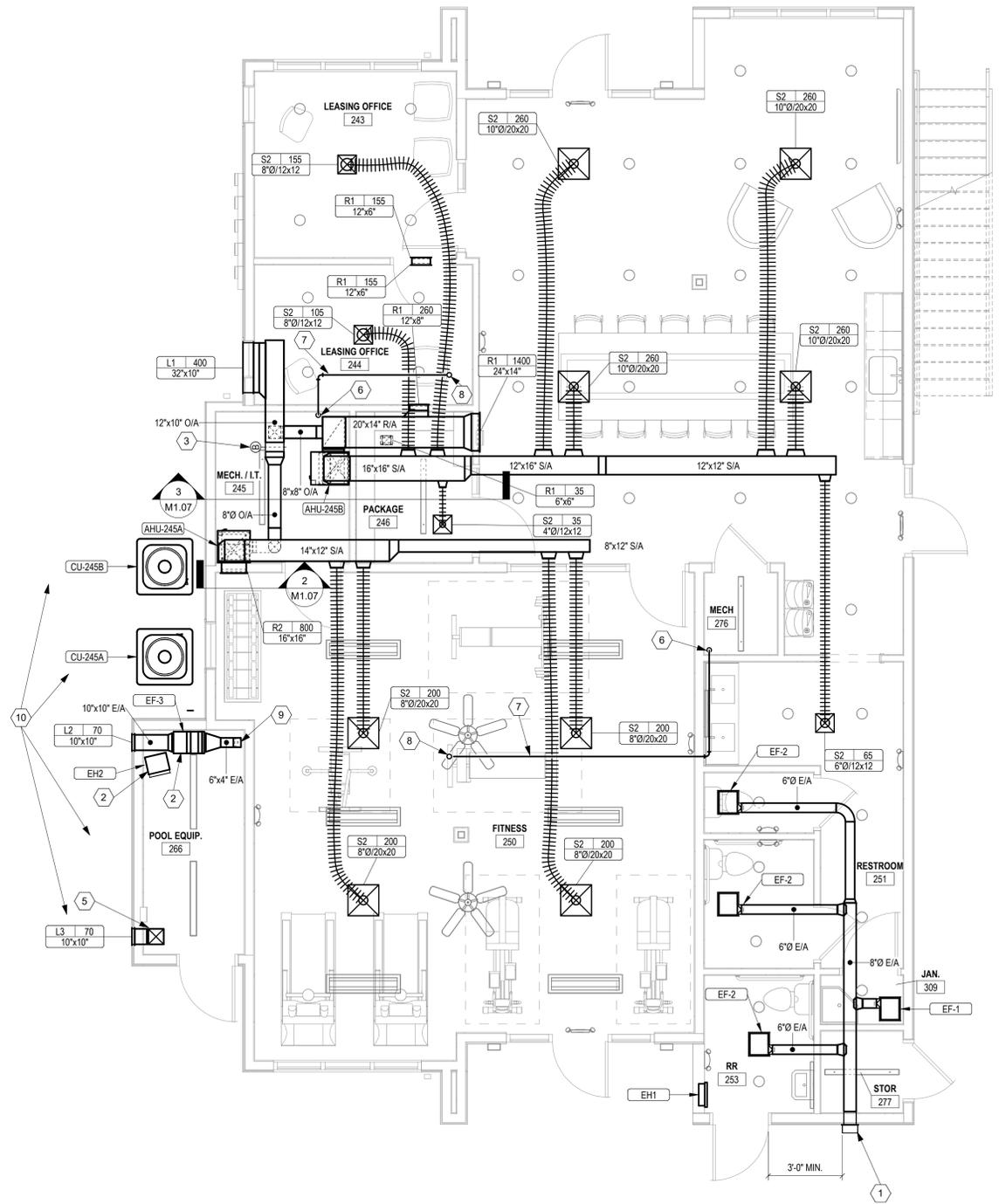
9415 NALL AVE., #300
PRAIRIE VILLAGE,
KANSAS, 66207



3 AHU-245A SECTION
1/4" = 1'-0"



2 AHU-245B SECTION
1/4" = 1'-0"



1 CLUBHOUSE HVAC
1/4" = 1'-0"

A NEW APARTMENT COMMUNIT AT:
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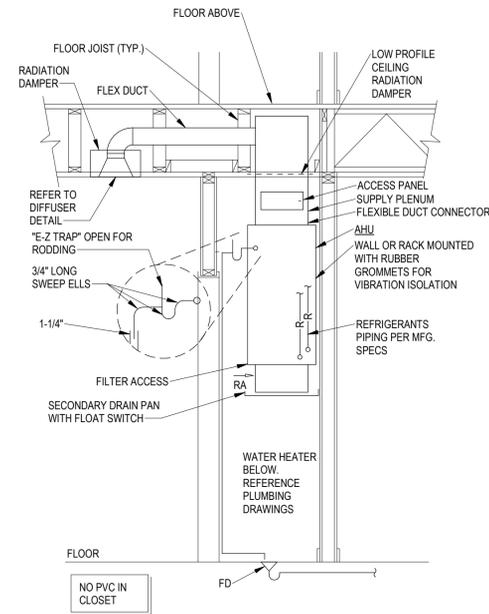
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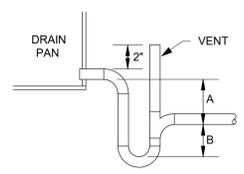
SHEET NAME CLUBHOUSE MECHANICAL PLAN
SHEET NO.

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M1.07

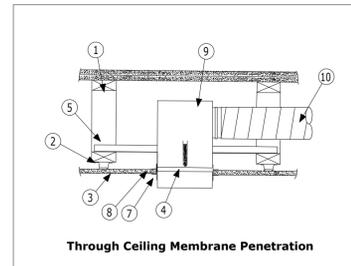
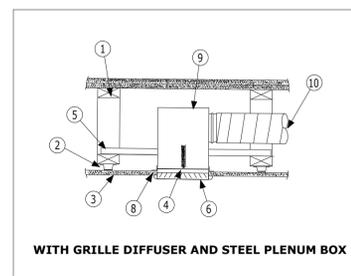


3 TYPICAL AHU DETAIL
M3.01/ 1/8" = 1'-0"



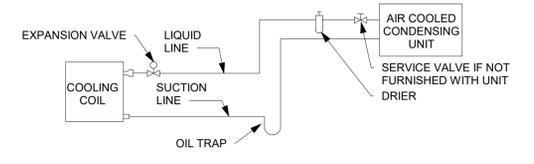
2 COOLING COIL CONDENSATE DRAIN DETAIL
M3.01/ NOT TO SCALE

1 RADIATION DAMPER DETAIL
M3.01/ NOT TO SCALE

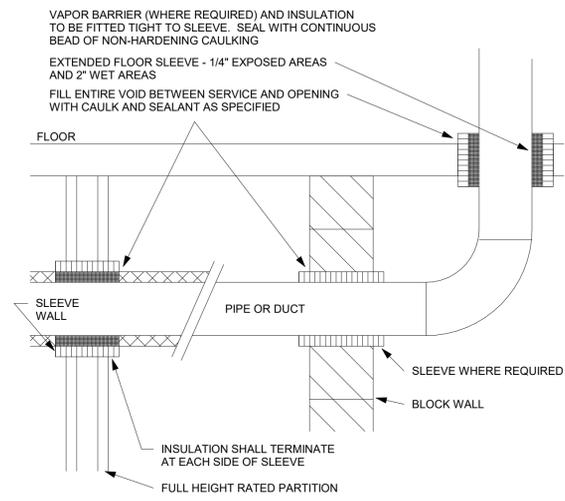


ITEM	DESCRIPTION
1	Wood Truss Assembly (Refer to UL Fire Resistance Directory)
2	RC Channel or Furring Channel or Steel Framing Members
3	UL rated gypsum wallboard (See UL design No.)
4	Ceiling Radiation Damper
5	3/4" x 3/4" x 16ga. (19 x 19 x 1.61) or 11/2" x 11/2" x 22 ga. (38 x 38 x .85) Support Angle (2 sides) See Note 1
6	Steel Frame Grille Diffuser
7	1" x 1" x 22 ga. (25 x 25 x .85) Retaining Angle on all 4 sides
8	Sub-frame or plaster flange
9	Steel Plenum Box or Boot
10	Duct (Square, Round, Multiple Sides as required)

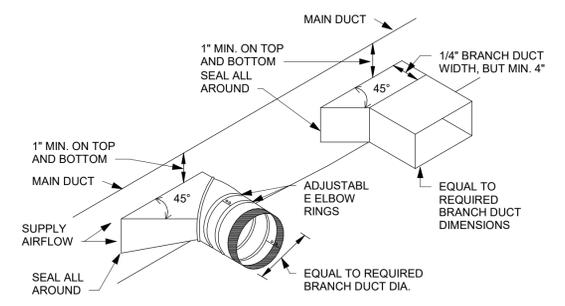
REFER TO ARCHITECTURAL DRAWINGS FOR UL FLOOR CEILING DESIGN NUMBER. RADIATION DAMPERS SHALL BE UL LISTED USE WITH THE FLOOR CEILING ASSEMBLY USED.



6 SPLIT SYSTEM FAN COIL UNIT PIPING SCHEMATIC
M3.01/ NOT TO SCALE



5 DUCT OR PIPE WALL AND FLOOR PENETRATION DETAIL
M3.01/ NOT TO SCALE



4 TYPICAL BRANCH TAKEOFF FITTING DETAIL
M3.01/ NOT TO SCALE

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SHEET NAME MECHANICAL DETAILS
SHEET NO. **M3.01**



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SHEET NAME MECHANICAL SCHEDULES

SHEET NO. M4.01

AIR HANDLING UNIT SCHEDULE

ID	MANUFACTURER	MODEL NO.	ARRANGEMENT	OUTSIDE AIR FLOW	FAN				NOMINAL CAP	COOLING COIL					NOMINAL KW	Heating Coil Capacity	Heating Coil EAT (db)	Heating Coil LAT (db)	FILTER DESCRIPTION	UNIT DIMENSIONS		FLA	MCA	MOCP	VOLT	PH	REMARKS	
					AIRFLOW DESIGN	PRESS ESP	MOTOR ECM	TOTAL		SENSIBLE	LATENT	EAT (db)	EAT (wb)	LAT (db)						LAT (wb)	AFF ELEVATION							UNIT WEIGHT
					180 CFM	800 CFM	0.55 in-wg	Yes		2 ton	23995 Btu/h	13824 Btu/h	10171 Btu/h	79.6 °F						66.1 °F	57.0 °F							56.5 °F
AHU-245A	LENNOX	CBA27UHE-024	Upflow	180 CFM	800 CFM	0.55 in-wg	Yes	2 ton	23995 Btu/h	13824 Btu/h	10171 Btu/h	79.6 °F	66.1 °F	57.0 °F	56.5 °F	10 kW	10 kW	50.0 °F	89.5 °F	1" MERV 13 PLEATED AIR FILTER	3'-0"	143 lb	45.8 A	57.2 A	60.0 A	240 V	1	7-DAY PROGRAMMABLE THERMOSTAT BY UNIT MANUFACTURER, PROVIDE WALL MOUNTING BRACKET, **PROVIDE FLOAT SWITCH IN CONDENSATE DRAIN WIRED TO SHUT DOWN UNIT UPON ALARM, RADIATION DAMPER.
AHU-245B	LENNOX	CBA27UHE-042	Upflow	220 CFM	1400 CFM	0.40 in-wg	Yes	3.5 ton	41754 Btu/h	26006 Btu/h	15748 Btu/h	78.2 °F	65.1 °F	55.8 °F	55.3 °F	20 kW	20 kW	55.9 °F	101.0 °F	1" MERV 13 PLEATED AIR FILTER	3'-0"	205 lb	90.9 A	113.7 A	125.0 A	240 V	1	7-DAY PROGRAMMABLE THERMOSTAT BY UNIT MANUFACTURER, PROVIDE WALL MOUNTING BRACKET, **PROVIDE FLOAT SWITCH IN CONDENSATE DRAIN WIRED TO SHUT DOWN UNIT UPON ALARM, RADIATION DAMPER.
AHU-A1	LENNOX	CBA27UHE-018	Upflow	0 CFM	600 CFM	0.50 in-wg	Yes	1.5 ton	17843 Btu/h	13090 Btu/h	4753 Btu/h	77.0 °F	64.2 °F	54.8 °F	54.3 °F	6 kW	6 kW	68.0 °F	99.6 °F	1" MERV 13 PLEATED AIR FILTER	3'-0"	141 lb	29.1 A	36.4 A	40.0 A	240 V	1	7-DAY PROGRAMMABLE THERMOSTAT BY UNIT MANUFACTURER, PROVIDE WALL MOUNTING BRACKET, **PROVIDE FLOAT SWITCH IN CONDENSATE DRAIN WIRED TO SHUT DOWN UNIT UPON ALARM, RADIATION DAMPER.
AHU-A2	LENNOX	CBA27UHE-018	Upflow	0 CFM	600 CFM	0.50 in-wg	Yes	1.5 ton	17843 Btu/h	13090 Btu/h	4753 Btu/h	77.0 °F	64.2 °F	54.8 °F	54.3 °F	6 kW	6 kW	68.0 °F	99.6 °F	1" MERV 13 PLEATED AIR FILTER	3'-0"	141 lb	29.1 A	36.4 A	40.0 A	240 V	1	7-DAY PROGRAMMABLE THERMOSTAT BY UNIT MANUFACTURER, PROVIDE WALL MOUNTING BRACKET, **PROVIDE FLOAT SWITCH IN CONDENSATE DRAIN WIRED TO SHUT DOWN UNIT UPON ALARM, RADIATION DAMPER.
AHU-B1	LENNOX	CBA27UHE-024	Upflow	0 CFM	800 CFM	0.55 in-wg	Yes	2 ton	23791 Btu/h	17453 Btu/h	6338 Btu/h	77.0 °F	64.2 °F	54.8 °F	54.4 °F	8 kW	8 kW	68.0 °F	99.6 °F	1" MERV 13 PLEATED AIR FILTER	3'-0"	142 lb	37.4 A	46.8 A	50.0 A	240 V	1	7-DAY PROGRAMMABLE THERMOSTAT BY UNIT MANUFACTURER, PROVIDE WALL MOUNTING BRACKET, **PROVIDE FLOAT SWITCH IN CONDENSATE DRAIN WIRED TO SHUT DOWN UNIT UPON ALARM, RADIATION DAMPER.

*AT CONTRACTOR'S OPTION, FLOAT SWITCH IS NOT REQUIRED FOR UNITS SITTING ON CONCRETE FLOOR OF LOWEST LEVEL OF BUILDING WHERE CONDENSATE OVERFLOWING WILL DRAIN TO FLOOR DRAIN IN ROOM WITHOUT CAUSING ADDITIONAL DAMAGE. ROUTE BOTH PRIMARY AND SECONDARY CONDENSATE LINES TO FLOOR DRAIN IN LIEU OF PROVIDING FLOAT SWITCH.

NATURAL VENTILATION CALCULATIONS

UNIT	SPACE	SF	OPERABLE AREA... 4% OF FLOOR AREA	ADJOINING AREA MIN... 10% OF FLOOR AREA >=...	OPERABLE AREA PROVIDED	OPEN TO ADJOINING AREA	PASS/...
A1	LIVING ROOM	165	6.6	25	20	0	PASS
	KITCHEN	196	7.84	25	20	0	PASS
	HALLWAY	23	0.92	25	0	28	PASS
	BEDROOM	138	5.52	25	13.6	0	PASS
A1A	LIVING ROOM	165	6.6	25	20	0	PASS
	KITCHEN	196	7.84	25	20	0	PASS
	HALLWAY	13	0.52	25	0	30	PASS
	BEDROOM	135	5.4	25	13.6	0	PASS
A2	LIVING ROOM	165	6.6	25	26.9	0	PASS
	KITCHEN	208	8.32	25	20	0	PASS
	HALLWAY	23	0.92	25	0	28	PASS
	BEDROOM	139	5.56	25	13	0	PASS
B1	LIVING ROOM	130	5.2	25	27.6	0	PASS
	KITCHEN	170	6.8	25	0	120	PASS
	HALLWAY	22	0.88	25	0	28	PASS
	ENTRY	47	1.88	25	20	0	PASS
	MASTER BEDROOM	146	5.84	25	13.8	0	PASS
BEDROOM 2	145	5.8	25	21.4	0	PASS	
B1A	LIVING ROOM	130	5.2	25	27.6	0	PASS
	KITCHEN	170	6.8	25	0	120	PASS
	HALLWAY	23	0.92	25	0	30	PASS
	ENTRY	47	1.88	25	20	0	PASS
	MASTER BEDROOM	135	5.4	25	13.8	0	PASS
BEDROOM 2	145	5.8	25	21.4	0	PASS	

SPLIT SYSTEM CONDENSING UNIT

MARK	LOCATION	MANUFACTURER	MODEL NO.	TYPE	NOMINAL COOLING CAP	COMPRESSOR REFRIGERANT TYPE	SUMMER AMBIENT DBT	SEER	UNIT WEIGHT	VOLT	PH	MCA	MOCP	ACCESSORIES
CU-245A	GRADE	LENNOX	ML14XC15024-230A01	COOLING	2 ton	R-410A	105.0 °F	14	152 lb	208 V	1	14.6 A	25 A	CRANKCASE HEATER, HAIL GUARD
CU-245B	GRADE	LENNOX	ML14XC15042-230A01	COOLING	3.5 ton	R-410A	105.0 °F	14	211 lb	208 V	1	23.4 A	40 A	CRANKCASE HEATER, HAIL GUARD
CU-A1	GRADE	LENNOX	ML14XC15018-230A01	COOLING	1.5 ton	R-410A	105.0 °F	14	134 lb	208 V	1	11.9 A	20 A	CRANKCASE HEATER, HAIL GUARD
CU-A2	GRADE	LENNOX	ML14XC15018-230A01	COOLING	1.5 ton	R-410A	105.0 °F	14	134 lb	208 V	1	11.9 A	20 A	CRANKCASE HEATER, HAIL GUARD
CU-B1	GRADE	LENNOX	ML14XC15024-230A01	COOLING	2 ton	R-410A	105.0 °F	14	152 lb	208 V	1	14.6 A	25 A	CRANKCASE HEATER, HAIL GUARD

FAN SCHEDULE

MARK	MANUFACTURER	MODEL NO.	DESIGN AIRFLOW	ESP	FAN MOTOR		SOUND PRESS LEVEL (SONES)	UNIT WEIGHT	VOLT	PH	FREQ	FLA	FAN TYPE	REMARKS
					DRIVE TYPE	POWER RPM								
EF-1	PANASONIC	FV-0511VK3	50 CFM	0.50 in-wg	DIRECT	0.05 hp 1296	0.6	10 lb	120 V	1	60 Hz	0.4 A	CEILING	FAN MOUNTED SPEED CONTROLLER, FACTORY MEANS OF DISCONNECT, RADIATION DAMPER, BACKDRAFT DAMPER
EF-2	COOK	GC-148	70 CFM	0.50 in-wg	DIRECT	0.05 hp 914	2.5	15 lb	120 V	1	60 Hz	0.3 A	CEILING	FAN MOUNTED SPEED CONTROLLER, FACTORY MEANS OF DISCONNECT, RADIATION DAMPER, BACKDRAFT DAMPER
EF-3	COOK	100SQN17D(VF)	70 CFM	0.50 in-wg	DIRECT	0.13 hp 1960	9.3	64 lb	120 V	1	60 Hz	1.9 A	INLINE	FAN MOUNTED SPEED CONTROLLER, FACTORY MEANS OF DISCONNECT, FAN TO RUN CONTINUOUSLY, PHENOLIC EPOXY POWDER COATED.

GRILLES, REGISTERS AND DIFFUSERS SCHEDULE

ID	DESCRIPTION	MANUFACTURER	MODEL	MATERIAL	FINISH	SYSTEM	NOTES
R1	LOUVERED GRILLE	TITUS	355RL	STEEL	WHITE ENAMEL	RIA	PLASTER FRAME TITUS MODEL TRM.
R2	LOUVERED GRILLE WITH DAMPER	TITUS	355RL	STEEL	WHITE ENAMEL	RIA	PLASTER FRAME TITUS MODEL TRM, OPPOSED BLADE BALANCE DAMPER
S1	SINGLE DEFLECTION SUPPLY GRILLE	TITUS	301RS	STEEL	WHITE ENAMEL	S/A	OPPOSED BLADE DAMPER AND U.L LISTED RADIATION DAMPER WITH INSULATED STEEL PLENUM BOX FOR INSTALLATION IN WOOD STRUCTURE.
S2	PLAQUE FACE DIFFUSER	TITUS	OMNI	STEEL	WHITE ENAMEL	S/A	DAMPER, PLASTER FRAME TITUS MODEL TRM, AND U.L LISTED RADIATION DAMPER WITH INSULATED STEEL PLENUM BOX FOR INSTALLATION IN WOOD STRUCTURE.

LOUVER SCHEDULE

MARK	LOCATION	MANUFACTURER	MODEL	SIZE		MATERIAL	FUNCTION	CFM	TOTAL PRESSURE	NOTES
				WIDTH	HEIGHT					
L1	MECH	RUSKIN	EME220DD	32"	10"	ALUMINUM	INTAKE	400 CFM	0.10 in-wg	MOUNT BOTTOM AT 8'-1" A.F.F., PROVIDE BIRDSCREEN, COLOR AS SELECTED BY ARCHITECT.
L2	POOL EQUIP	RUSKIN	EME220DD	10"	10"	ALUMINUM	EXHAUST	70 CFM	0.10 in-wg	MOUNT BOTTOM AT 8'-0" A.F.F., PROVIDE BIRDSCREEN, COLOR AS SELECTED BY ARCHITECT.
L3	POOL EQUIP	RUSKIN	EME220DD	10"	10"	ALUMINUM	INTAKE	70 CFM	0.10 in-wg	MOUNT BOTTOM AT 8'-0" A.F.F., PROVIDE BIRDSCREEN, COLOR AS SELECTED BY ARCHITECT.

ELECTRIC UNIT HEATER SCHEDULE

ID	MANUFACTURER	MODEL NO.	FAN		ELECTRIC HEATING COIL		HEATING ELEMENT		UNIT WEIGHT	VOLT	PH	REMARKS		
			DESIGN AIRFLOW	MOTOR QTY ECM	CAP	AIRSIDE EAT (db) LAT (db)	QTY	POWER					SCR	AFF ELEVATION
			175 CFM	1 No	10239 Btu/h	45.0 °F	99.0 °F	1					3.0 kW	No
EH1	RAYWALL	AFA230D	175 CFM	1 No	10239 Btu/h	45.0 °F	99.0 °F	1	3.0 kW	No	1'-8"	PROVIDE INTEGRAL THERMOSTAT, DISCONNECT		
EH2	RAYWALL	HF2B5103N	400 CFM	1 No	11200 Btu/h	45.0 °F	70.8 °F	0	3.3 kW	No	8'-0"	PROVIDE POWER DISCONNECT AND HEATING ONLY THERMOSTAT SET TO 45 DEGREES.		

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NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
• 03/22/24 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS

JOB NO. DATE
740623 **04.19.24**
DRAWN BY
DS/BK
CD SET/PERMIT

SHEET NAME
PLUMBING TITLE SHEET

SHEET NO.
P0.00

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GENERAL MECHANICAL SYMBOLS		PLUMBING AND PIPING SYMBOLS	
	REVISION NUMBER - SHOWN ON PLANS		CHILLED WATER RETURN
	POINT WHERE NEW CONNECTS TO EXISTING		CHILLED WATER SUPPLY
	NUMBER OF DETAIL ON SHEET		CONDENSATE DRAINAGE
	NUMBER OF SHEET WHERE DETAIL APPEARS		CONDENSER WATER RETURN
	KEYNOTE		CONDENSER WATER SUPPLY
	CONTINUATION SYMBOL		GEO THERMAL WATER RETURN
	ROOM NAME AND NUMBER		GEO THERMAL WATER SUPPLY
	ITEM TO BE DEMOLISHED		HEATING WATER RETURN
	AREA NOT IN CONTRACT		HEATING WATER SUPPLY
	PIPE SIZE TAG (DIAMETER)		NATURAL GAS
	PIPE SLOPE TAG		PROPANE GAS
	PIPE INVERT ELEVATION TAG		REFRIGERANT-LIQUID
	EXISTING PIPE TAG		REFRIGERANT-SUCTION
	PIPING BEING DEMOLISHED		REFRIGERANT-HOT GAS
ABBREVIATIONS			STEAM
	ROUND		CONDENSATE RETURN
ABV	ABOVE		COMBINATION WASTE & VENT
AC	AIR CONDITIONING		COMPRESSED AIR
AD	AREA DRAIN		DOMESTIC COLD WATER
ADD	ADDENDUM		HARD COLD WATER
AF	ABOVE FINISHED FLOOR		SOFT COLD WATER
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY		FILTERED COLD WATER
ALT	ALTERNATE		REVERSE OSMOSIS WATER
AP	ACCESS PANEL		HOT WATER
ARCH	ARCHITECT/ARCHITECTURAL		HOT WATER 140°
BFF	BELOW FINISHED FLOOR		HOT WATER RECIRCULATION
BLW	BELOW		HOT WATER RECIRCULATION 140°
BTU	BRITISH THERMAL UNITS		GREASE VENT
BTUH	BRITISH THERMAL UNITS PER HOUR		GREASE WASTE
CAP	CAPACITY		INDIRECT WASTE
CB	CATCH BASIN		OIL VENT
CFM	CUBIC FEET PER MINUTE		OIL WASTE
CLG	CEILING		PUMP DISCHARGE
CO	CLEAN OUT		SANITARY VENT
CW	COLD WATER		SANITARY SEWER
D	DEGREE		SOLAR HOT WATER RETURN
DB	DRY BULB		SOLAR HOT WATER SUPPLY
DIA	DIAMETER		STORM DRAINAGE
DN	DOWN		OVERFLOW STORM DRAINAGE
DW	DISTILLED WATER		
EA	EACH		
EAT	ENTERING AIR TEMPERATURE		
ELEC	ELECTRICAL		
EQUIP	EQUIPMENT		
EWC	ELECTRIC WATER COOLER		
EWV	ENTERING WATER TEMPERATURE		
E/A	EXHAUST AIR		
EXIST	EXISTING		
F	DEGREES FAHRENHEIT		
FCO	FLOOR CLEAN OUT		
FD	FLOOR DRAIN		
FDC	FIRE DEPARTMENT CONNECTION		
FL	FLOOR		
FO	FUEL OIL		
FOV	FUEL OIL VENT		
FOR	FUEL OIL RETURN		
FOS	FUEL OIL SUPPLY		
FPM	FEET PER MINUTE		
FS	FLOOR SINK		
FT	FOOT/FEET		
FTR	FIN TUBE RADIATION		
GAL	GALLON		
GF	GAS-FIRED		
GC	GENERAL CONTRACTOR		
GPM	GALLONS PER MINUTE		
GW	GREASE WASTE		
HB	HOSE BIB		
HP	HORSE POWER		
HTG	HEATING		
HTR	HEATER		
HW	HOT WATER		
HYD	HYDRANT		
ID	INDIRECT		
IN	INCH		
INV	INVERT		
LB	POUND		
LB/HR	POUNDS PER HOUR		
LAT	LEAVING AIR TEMPERATURE		
LP	LOW PRESSURE		
LPG	LIQUEFIED PETROLEUM GAS		
LVR	LOUVER		
LWT	LEAVING WATER TEMPERATURE		
M/A	MIXED AIR		
MAX	MAXIMUM		
MBH	ONE THOUSAND BTU PER HOUR		
MCF	ONE THOUSAND CUBIC FEET		
MD	MOTORIZED DAMPER		
MECH	MECHANICAL		
MFR	MANUFACTURER		
MIN	MINIMUM		
MISC	MISCELLANEOUS		
MTR	MOTOR		
MU/A	MAKE-UP/AIR		
NC	NOISE CRITERIA		
NC	NORMALLY CLOSED		
NIC	NOT IN CONTRACT		
NO	NUMBER		
NO	NORMALLY OPEN		
NTS	NOT TO SCALE		
O	OXYGEN		
O/A	OUTSIDE AIR		
ORD	OVERFLOW ROOF DRAIN		
PD	PRESSURE DROP		
PIV	POST INDICATOR VALVE		
PLBG	PLUMBING		
PRESS	PRESSURE		
PRV	PRESSURE REDUCING VALVE		
PSI	POUNDS PER SQUARE INCH		
PSIG	POUNDS PER SQUARE INCH GAUGE		
PWR	POWER		
R	DUCT RISER		
R/A	RETURN AIR		
RCP	RADIANT CEILING PANEL		
RD	ROOF DRAIN		
REC	RECESSED		
RED	REDUCER		
RH	RELATIVE HUMIDITY		
R/LA	RELIEF AIR		
RM	ROOM		
RPM	REVOLUTIONS PER MINUTE		
RAIN	RAIN WATER		
SF	SQUARE FOOT		
S/A	SUPPLY AIR		
SAN	SANITARY		
SF	SQUARE FOOT		
SD	SMOKE DAMPER		
SM	SURFACE MOUNT		
SP	STANDPIPE		
SP	STATIC PRESSURE		
STM	STEAM		
T	THERMOSTAT		
TD	TEMPERATURE DROP		
TDR	TRENCH DRAIN		
TEMP	TEMPERATURE		
TYP	TYPICAL		
UG	UNDERGROUND		
VAC	VACUUM		
V	VENT		
VAV	VARIABLE AIR VOLUME		
VENT	VENTILATION		
VTR	VENT THROUGH ROOF		
W	WASTE		
WB	WET BULB		
WCO	WALL CLEAN OUT		
WH	WALL HYDRANT		

EQUIPMENT ABBREVIATIONS	
AC	AIR CONDITIONING UNIT
ACCU	AIR COOLING CONDENSING UNIT
AHU	AIR HANDLING UNIT
AS	AIR SEPARATOR
B	BOILER
CH	CHILLER
CT	COOLING TOWER
CUH	CABINET UNIT HEATER
CHWP	CHILLED WATER PUMP
DBP	DOMESTIC WATER BOOSTER PUMP
DC	DUCT MOUNTED COIL
DCP	DOMESTIC WATER CIRCULATING PUMP
EF	EXHAUST FAN
EDC	ELECTRIC DUCT COIL
ET	EXPANSION TANK
EWH	ELECTRIC WATER HEATER
FCU	FAN COIL UNIT
FP	FIRE PUMP
GI	GREASE INTERCEPTOR
GRV	GRAVITY ROOF VENTILATOR
HWP	HEATING WATER PUMP
HRU	HEAT RECOVERY UNIT
PRV	POWER ROOF VENTILATOR
RE	RETURN/EXHAUST FAN
RTU	ROOFTOP UNIT
SP	SUMP PUMP
UH	UNIT HEATER
WH	WATER HEATER

PIPE ACCESSORY TAGS

4" FCO CLEANOUT

2" BACKWATER SWING CHECK

2" CHECK VALVE

(ALTERNATE CHECK VALVE SYMBOL)

2" BALANCE VALVING VALVE

2" CIRC CIRCUIT SETTER

1" RCV RECIRC. VALVE

2" GATE GATE VALVE

2" QUICK QUICK OPENING VALVE

2" SHUTOFF BALL VALVE

2" STRAINER

1/2" PRIMER TRAP PRIMER

2" M-CNTRL ELEC. CONTROL VALVE

TMV-XXTP Mixing Valve

1/2" TMV-TMV-XX EMERGENCY MIXER

2" PRV DOM. PRV

2" DOM. WM DOM. WATER METER

1 1/2" DOM. WM IRRIGATION METER

1" GAS-CNTRL EMERGENCY GAS VALVE

1" GAS COCK GAS SHUTOFF COCK

1" REG GAS REGULATOR

DOUBLE CHECK VALVE

REDUCED PRESSURE ZONE

DRAIN TAGS

Floor Drain: 0" FD-1 TYPE (SEE SCHEDULE)

TRAP PRIMER: 0" FD-3 "P" - INDICATES PRIMER CONNECTION

DEEP TRAP: 0 FD-3

INTEGRAL CLEANOUT: 2 DFU

Hub Drain: 0" FD-14

Floor Sink: 3" FS-4

Area Drain NO TRAP: 0" AD-2

Deck Drain: 0" SD-29

Roof Drain: 0" SD-12

Roof Drain: 0" SD-15

Roof Drain: 0 SD-1

Roof Drain: 0 SF

PLUMBING FIXTURE TAGS

TYPE (SEE SCHEDULE)

WC-1A

WC-1

U-1

LAV-1A

0.75 CWFU

0.75 HWFU

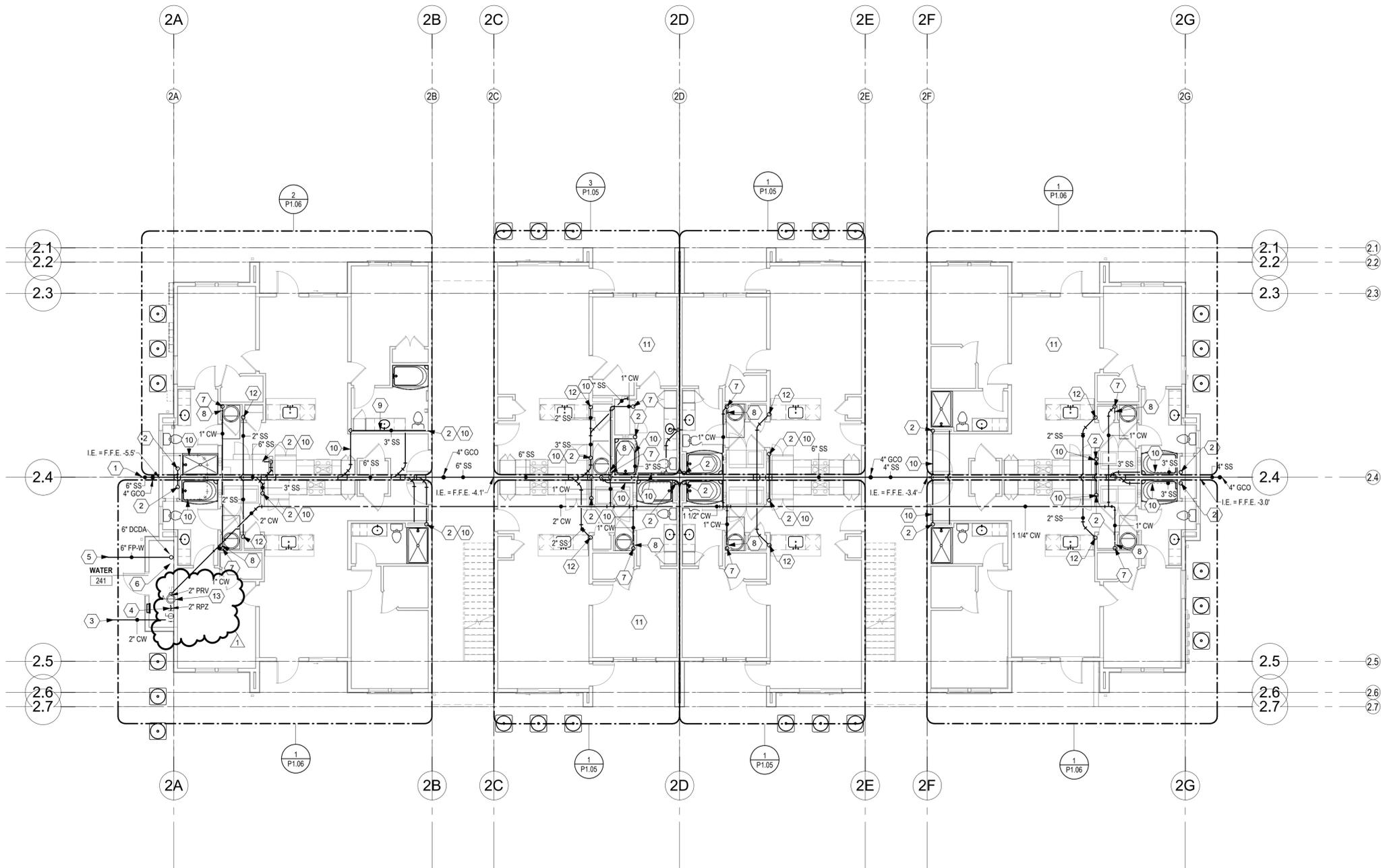
4" WCO

PIPE ACCESSORY TAG

4" WCO

*** NOTE ***
ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

Plumbing Sheet Schedule	
P0.00	PLUMBING TITLE SHEET
P1.01A	LEVEL 1 PLUMBING PLAN BUILDING A
P1.01C	LEVEL 1 PLUMBING PLAN BUILDING C
P1.02A	LEVEL 2 PLUMBING PLAN BUILDING A
P1.02C	LEVEL 2 PLUMBING PLAN BUILDING C
P1.03A	LEVEL 3 PLUMBING PLAN BUILDING A
P1.03C	LEVEL 3 PLUMBING PLAN BUILDING C
P1.04A	ROOF PLUMBING PLAN BUILDING A
P1.04C	ROOF PLUMBING PLAN BUILDING C
P1.05	ENLARGED UNIT WATER PLANS
P1.06	ENLARGED UNIT WATER PLANS
P1.07	ENLARGED UNIT WASTE & VENT PLANS
P1.08	ENLARGED UNIT WASTE & VENT PLANS
P2.01	CLUBHOUSE WASTE & VENT FLOOR PLAN
P2.02	CLUBHOUSE WATER & GAS FLOOR PLAN
P3.01	PLUMBING DETAILS & SCHEDULES
P3.02	UNIT WATER RISERS
P3.03	UNIT WASTE RISERS



1 LEVEL 1 PLUMBING PLAN-BUILDING A
P1.01A 1/8" = 1'-0"

KEYNOTES

- 1 SEE CIVIL PLAN FOR CONTINUATION OF 6" SANITARY SEWER. MAINTAIN MIN 30" COVER.
- 2 3" WASTE DOWN FROM FLOOR ABOVE. REFER TO SHEET P1.02A AND ENLARGED UNIT PLAN FOR CONTINUATION. PROVIDE CLEANOUT AT BASE OF RISER.
- 3 SEE CIVIL PLAN FOR CONTINUATION OF 2" DOMESTIC C.W. MAINTAIN MIN 48" COVER.
- 4 PROVIDE 2" RPZ BACKFLOW PREVENTER AND INSTALL 24" A.F.F. & 6" FROM WALL. ROUTE DRAIN FROM RPZ BFP TO DAYLIGHT. SEAL EXTERIOR PENETRATION WEATHERTIGHT.
- 5 6" FIRE LINE. SEE CIVIL PLANS FOR CONTINUATION. MAINTAIN A MINIMUM 48" BURY FOR FREEZE PROTECTION.
- 6 6" FIRE LINE THRU FLOOR. PROVIDE USC CERTIFIED DOUBLE CHECK DETECTOR ASSEMBLY (DCCA) AND THE MAIN DRAIN VENTED TO DAYLIGHT. SEAL EXTERIOR WALL PENETRATION WEATHER TIGHT AS REQUIRED. COORDINATE WITH SPRINKLER CONTRACTOR FOR PROPER INSTALLATION.
- 7 1" CW UP TO FLOOR ABOVE. REFER TO SHEET P1.02A AND ENLARGED UNIT PLAN FOR CONTINUATION.
- 8 3/4" CW PIPE WITH SHUT-OFF VALVE. REFER TO ENLARGED UNIT PLANS FOR CONTINUATION OF PIPING.
- 9 ROUTE WASTE PIPE ABOVE CEILING TO WALL AS REQUIRED. 3" WASTE PIPE ROUTED TO BELOW FLOOR AS REQUIRED.
- 10 SUDS RELIEF WASTE PIPE TO RUN MINIMUM 8' PRIOR TO CONNECTION TO WASTE PIPING FROM FIRST FLOOR APARTMENT.
- 11 REFER TO ENLARGED FLOOR PLAN FOR PIPING IN APARTMENTS.
- 12 2" WASTE DOWN FROM FLOOR ABOVE. REFER TO SHEET P1.02B AND ENLARGED UNIT PLAN FOR CONTINUATION. PROVIDE CLEANOUT AT BASE OF RISER.
- 13 PROVIDE PRESSURE REDUCING VALVE IF SUPPLY PRESSURE EXCEEDS 80 PSI STATIC. AN APPROVED WATER-PRESSURE REDUCING VALVE CONFORMING TO ASSE 1003 OR CSA B355 WITH STRAINER SHALL BE INSTALLED TO REDUCE THE PRESSURE IN THE BUILDING WATER DISTRIBUTION PIPING TO NOT GREATER THAN 80 PSI STATIC.

BUILDING 3 F.F.E = 999.75'
BUILDING 4 F.F.E = 999.75'

REFER TO CIVIL SITE UTILITY DRAWINGS
FOR EXACT DEPTHS AND LOCATIONS
WHERE WASTE LEAVES BUILDING.

A NEW APARTMENT COMMUNIT AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
• 03/23/24 100% CD Set
• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

REVISIONS
1 9/27/24 City Comment Responses

MISSOURI PE COA #2009003629

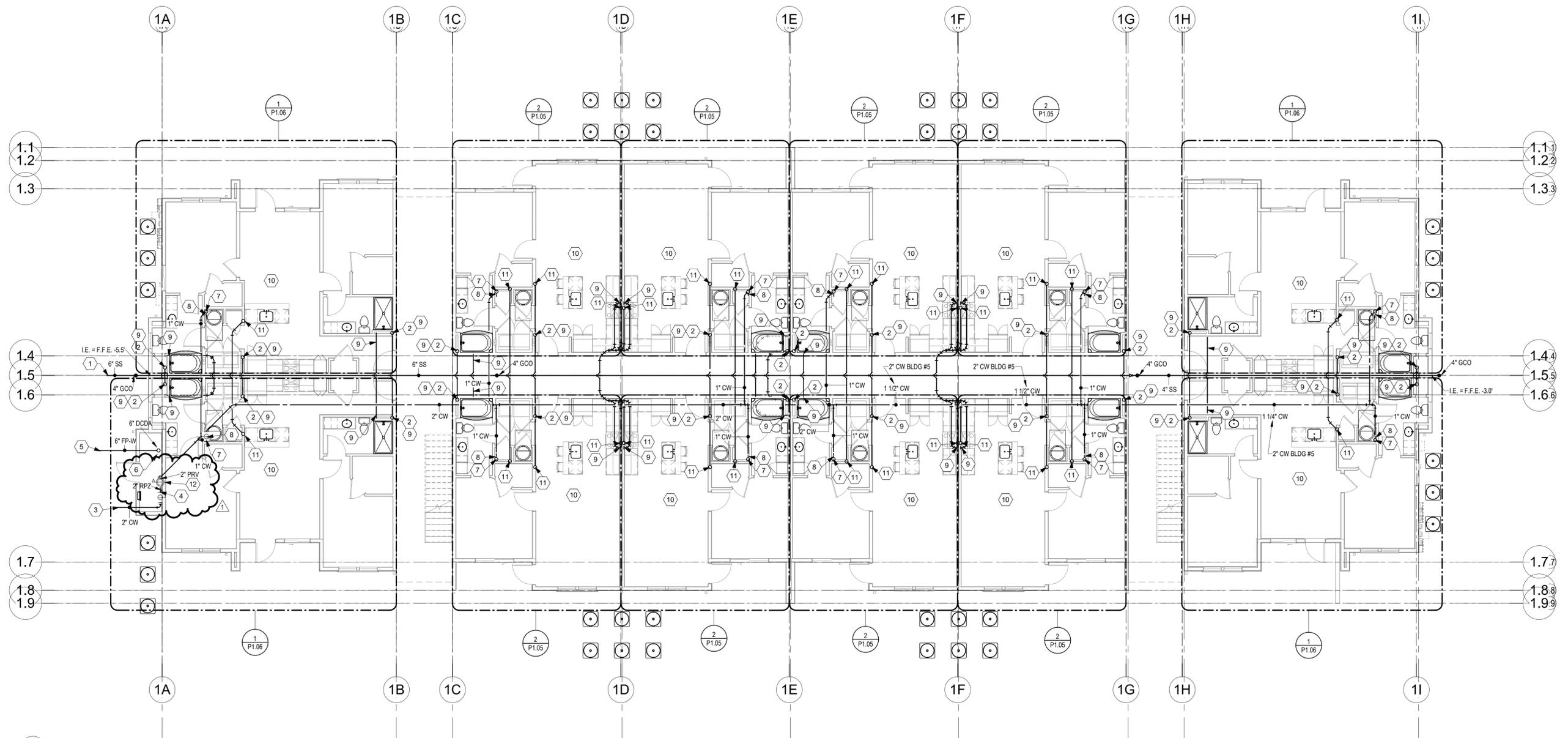
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JOB NO. 740623 DATE 04.19.24
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SHEET NAME
LEVEL 1 PLUMBING PLAN
BUILDING A
SHEET NO.

P1.01A



1 LEVEL 1 PLUMBING PLAN-BUILDING C
P1.01C 1/8" = 1'-0"

KEYNOTES

- 1 SEE CIVIL PLAN FOR CONTINUATION OF 6" SANITARY SEWER. MAINTAIN MIN 30" COVER.
- 2 3" WASTE DOWN FROM FLOOR ABOVE. REFER TO SHEET P1.02C AND ENLARGED UNIT PLAN FOR CONTINUATION. PROVIDE CLEANOUT AT BASE OF RISER.
- 3 SEE CIVIL PLAN FOR CONTINUATION OF 2" DOMESTIC C.W. MAINTAIN MIN 48" COVER.
- 4 PROVIDE 2" RPZ BACKFLOW PREVENTER AND INSTALL 24" A.F.F. & 6" FROM WALL. ROUTE DRAIN FROM RPZ BFP TO DAYLIGHT. SEAL EXTERIOR PENETRATION WEATHERTIGHT.
- 5 6" FIRE LINE. SEE CIVIL PLANS FOR CONTINUATION. MAINTAIN A MINIMUM 48" BURY FOR FREEZE PROTECTION.
- 6 6" FIRE LINE THRU FLOOR. PROVIDE USC CERTIFIED DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) AND THE MAIN DRAIN VENTED TO DAYLIGHT. SEAL EXTERIOR WALL PENETRATION WEATHER TIGHT AS REQUIRED. COORDINATE WITH SPRINKLER CONTRACTOR FOR PROPER INSTALLATION.
- 7 1" CW UP TO FLOOR ABOVE. REFER TO SHEET P1.02C AND ENLARGED UNIT PLAN FOR CONTINUATION.
- 8 3/4" CW PIPE WITH SHUT-OFF VALVE. REFER TO ENLARGED UNIT PLANS FOR CONTINUATION OF PIPING.
- 9 SUDS RELIEF WASTE PIPE TO RUN MINIMUM 8' PRIOR TO CONNECTION TO WASTE PIPING FROM FIRST FLOOR APARTMENT.
- 10 REFER TO ENLARGED FLOOR PLAN FOR PIPING IN APARTMENTS.
- 11 2" WASTE DOWN FROM FLOOR ABOVE. REFER TO SHEET P1.02C AND ENLARGED UNIT PLAN FOR CONTINUATION. PROVIDE CLEANOUT AT BASE OF RISER.

12 PROVIDE PRESSURE REDUCING VALVE IF SUPPLY PRESSURE EXCEEDS 80 PSI STATIC. AN APPROVED WATER-PRESSURE REDUCING VALVE CONFORMING TO ASSE 1003 OR CSA B336 WITH STRAINER SHALL BE INSTALLED TO REDUCE THE PRESSURE IN THE BUILDING WATER DISTRIBUTION PIPING TO NOT GREATER THAN 80 PSI STATIC.

BUILDING 1 F.F.E. = 993.25'
BUILDING 2 F.F.E. = 995.00'
BUILDING 5 F.F.E. = 999.25'

REFER TO CIVIL SITE UTILITY DRAWINGS FOR EXACT DEPTHS AND LOCATIONS WHERE WASTE LEAVES BUILDING.

NOTE: REFER TO ARCH PLANS, BUILDING 5 FIRST FLOOR CLUBHOUSE PLANS. REFER TO PAGES P2.01 & P2.02.

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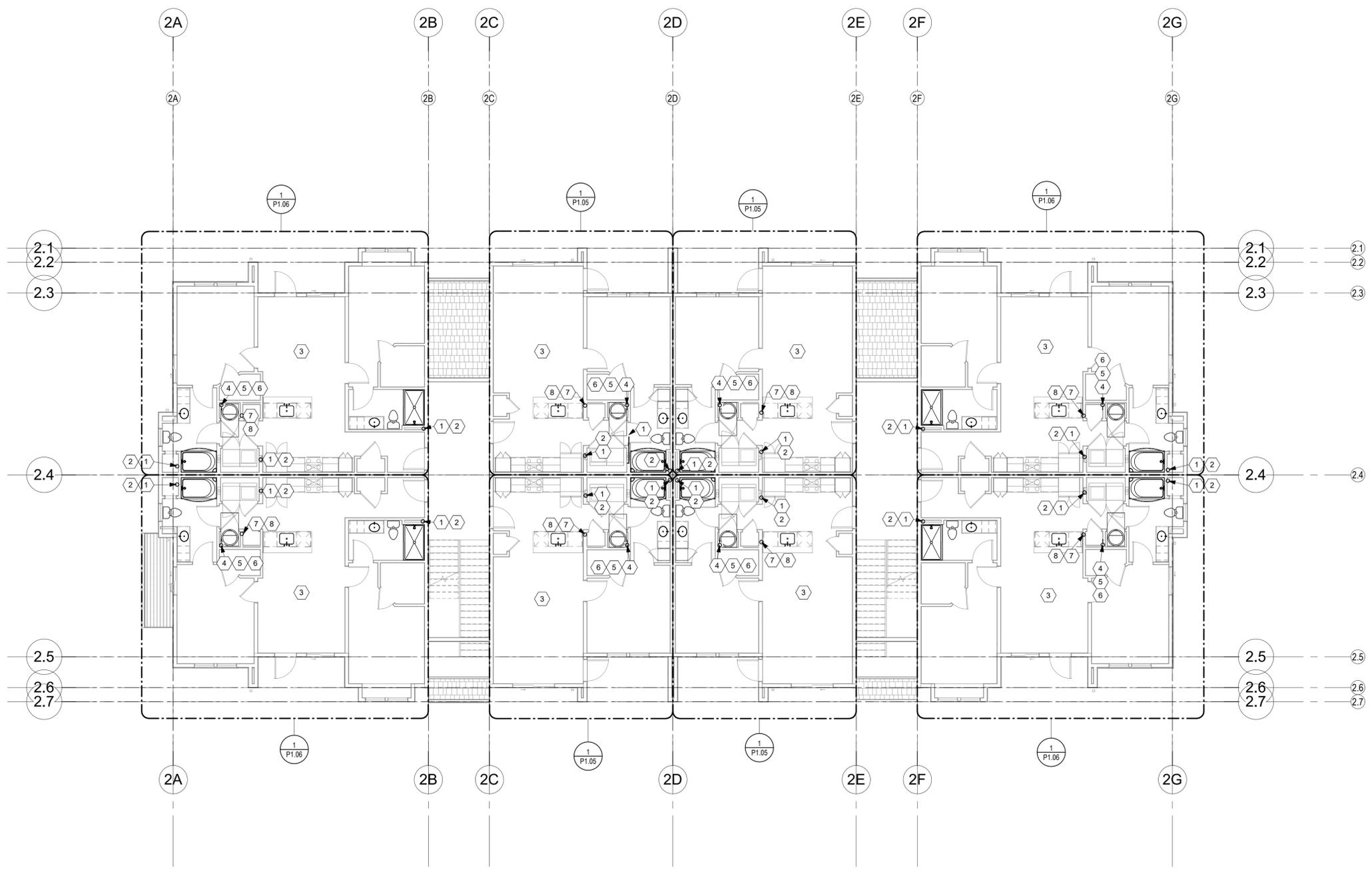
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SHEET NAME LEVEL 1 PLUMBING PLAN BUILDING C SHEET NO.

P1.01C



1 LEVEL 2 PLUMBING PLAN-BUILDING A
P1.02A 1/8" = 1'-0"

KEYNOTES

- 1 3" WASTE DOWN FROM FLOOR ABOVE. REFER TO SHEET P1.03A AND ENLARGED UNIT PLAN FOR CONTINUATION. PROVIDE CLEANOUT AT BASE OF RISER.
- 2 3" WASTE DOWN TO FLOOR BELOW. REFER TO SHEET P1.01A AND ENLARGED UNIT PLAN FOR CONTINUATION.
- 3 REFER TO ENLARGED UNIT PLANS FOR PIPING.
- 4 3/4" CW PIPE WITH SHUT-OFF VALVE. REFER TO ENLARGED UNIT PLANS FOR CONTINUATION OF PIPING.
- 5 3/4" CW UP TO FLOOR ABOVE. REFER TO SHEET P1.03A FOR CONTINUATION.
- 6 1" CW PIPE UP FROM FLOOR BELOW. REFER TO SHEET P1.01A FOR CONTINUATION.
- 7 2" WASTE DOWN FROM FLOOR ABOVE. REFER TO SHEET P1.03A AND ENLARGED UNIT PLAN FOR CONTINUATION.
- 8 2" WASTE DOWN TO FLOOR BELOW. REFER TO SHEET P1.01A AND ENLARGED UNIT PLAN FOR CONTINUATION.

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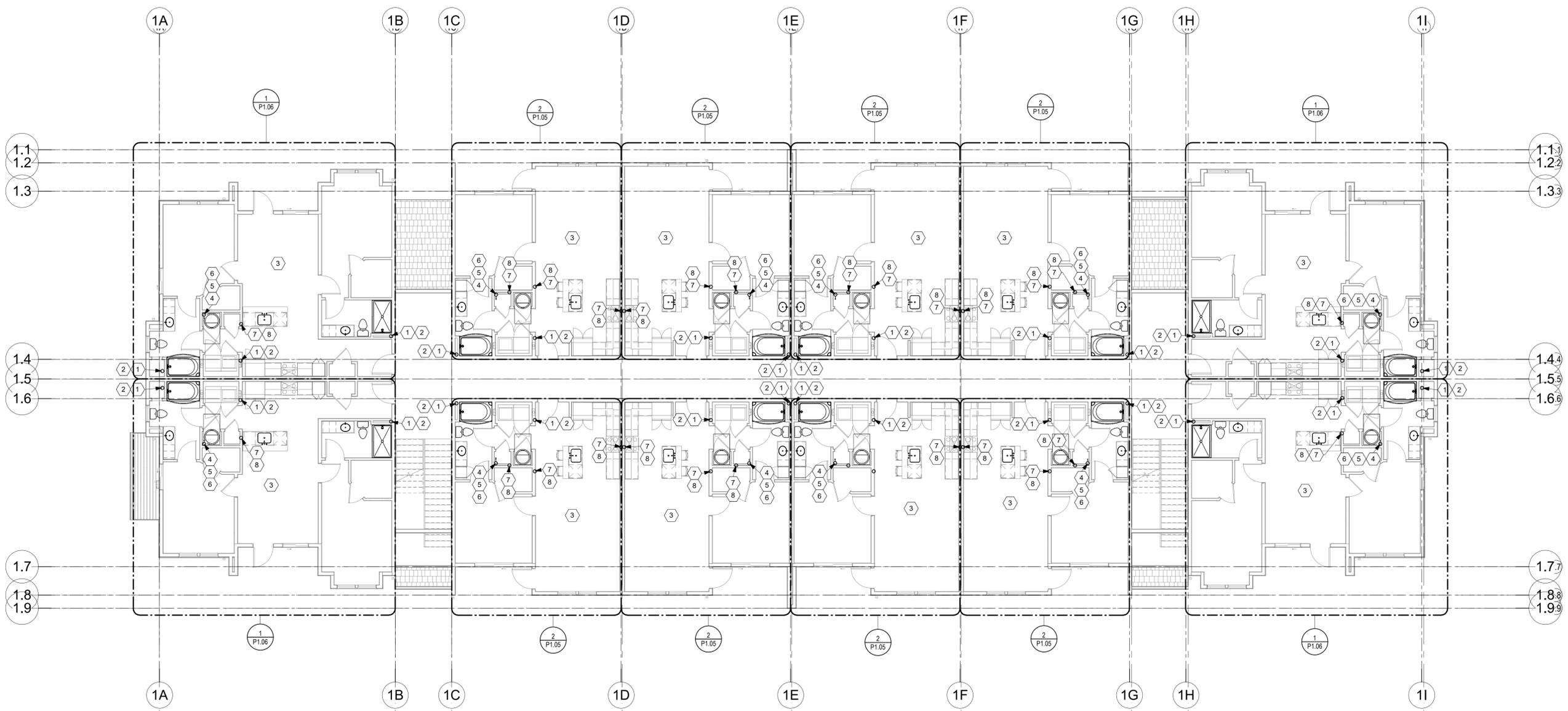
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SHEET NAME
LEVEL 2 PLUMBING PLAN
BUILDING A
SHEET NO.

P1.02A



1 LEVEL 2 PLUMBING PLAN-BUILDING C
P1.02C 1/8" = 1'-0"

KEYNOTES

- 1 3" WASTE DOWN FROM FLOOR ABOVE. REFER TO SHEET P1.03C AND ENLARGED UNIT PLAN FOR CONTINUATION. PROVIDE CLEANOUT AT BASE OF RISER.
- 2 3" WASTE DOWN TO FLOOR BELOW. REFER TO SHEET P1.01C AND ENLARGED UNIT PLAN FOR CONTINUATION.
- 3 REFER TO ENLARGED UNIT PLANS FOR PIPING.
- 4 3/4" CW PIPE WITH SHUT-OFF VALVE. REFER TO ENLARGED UNIT PLANS FOR CONTINUATION OF PIPING.
- 5 3/4" CW UP TO FLOOR ABOVE. REFER TO SHEET P1.03C FOR CONTINUATION OF PIPING.
- 6 1" CW PIPE UP FROM FLOOR BELOW. REFER TO SHEET P1.01C FOR CONTINUATION.
- 7 2" WASTE DOWN FROM FLOOR ABOVE. REFER TO SHEET P1.03C AND ENLARGED UNIT PLAN FOR CONTINUATION.
- 8 2" WASTE DOWN TO FLOOR BELOW. REFER TO SHEET P1.01C AND ENLARGED UNIT PLAN FOR CONTINUATION.

A NEW APARTMENT COMMUNIT AT:
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NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

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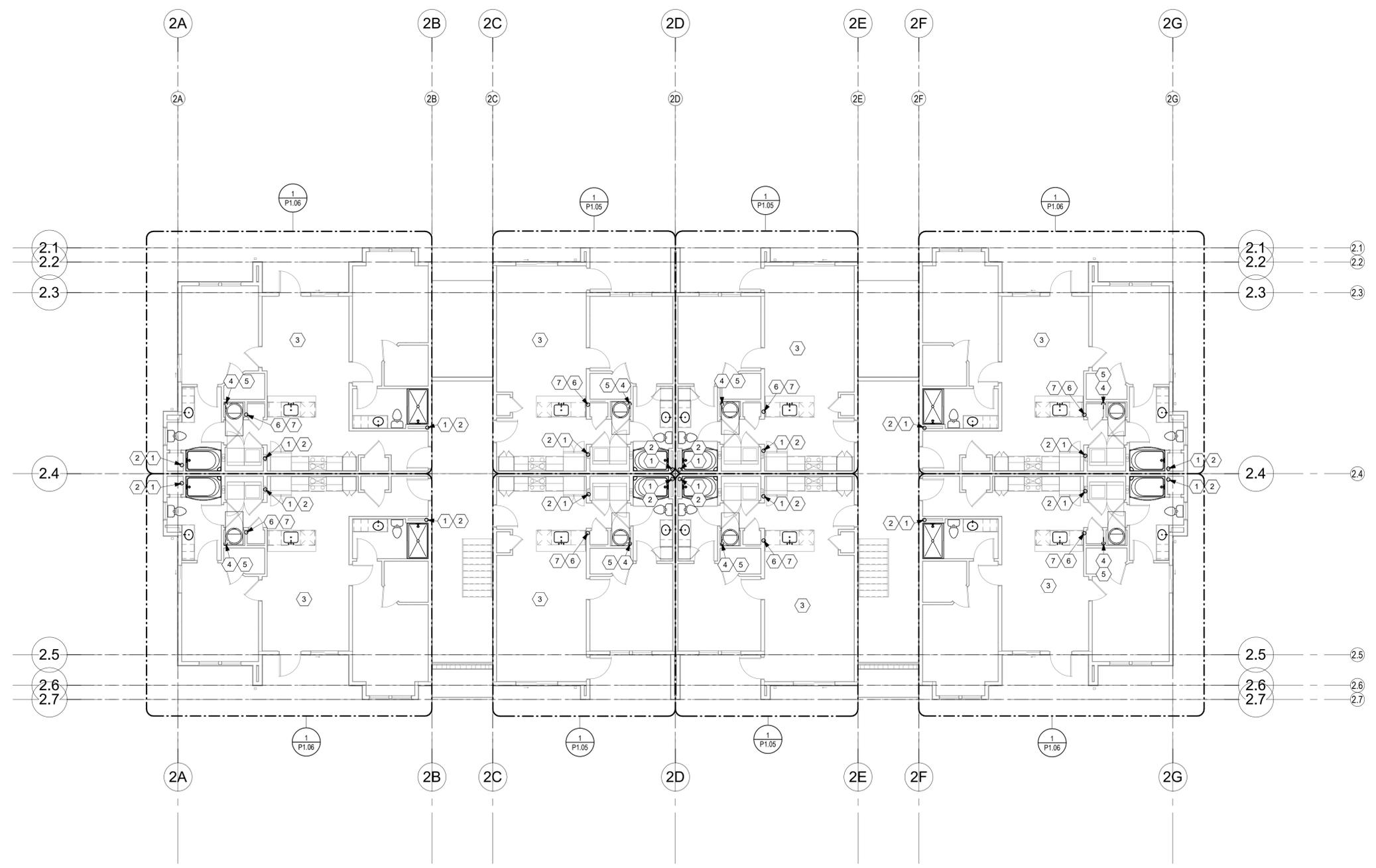
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SHEET NAME
 LEVEL 2 PLUMBING PLAN
 BUILDING C
 SHEET NO.

P1.02C



1 LEVEL 3 PLUMBING PLAN-BUILDING A
P1.03A 1/8" = 1'-0"

KEYNOTES

- 1 3" WASTE DOWN FROM FLOOR ABOVE. REFER TO SHEET P1.02A AND ENLARGED UNIT PLAN FOR CONTINUATION. PROVIDE CLEANOUT AT BASE OF RISER.
- 2 3" VENT UP TO ROOF. REFER TO SHEET P1.04A AND ENLARGED UNIT PLAN FOR CONTINUATION.
- 3 REFER TO ENLARGED UNIT PLANS FOR PIPING.
- 4 3/4" CW PIPE WITH SHUT-OFF VALVE. REFER TO ENLARGED UNIT PLANS FOR CONTINUATION OF PIPING.
- 5 3/4" CW PIPE UP FROM FLOOR BELOW. REFER TO SHEET P1.02A FOR CONTINUATION.
- 6 2" WASTE DOWN TO FLOOR BELOW. REFER TO SHEET P1.02A AND ENLARGED UNIT PLAN FOR CONTINUATION.
- 7 2" VENT UP TO ROOF. REFER TO SHEET P1.04A AND ENLARGED UNIT PLAN FOR CONTINUATION.

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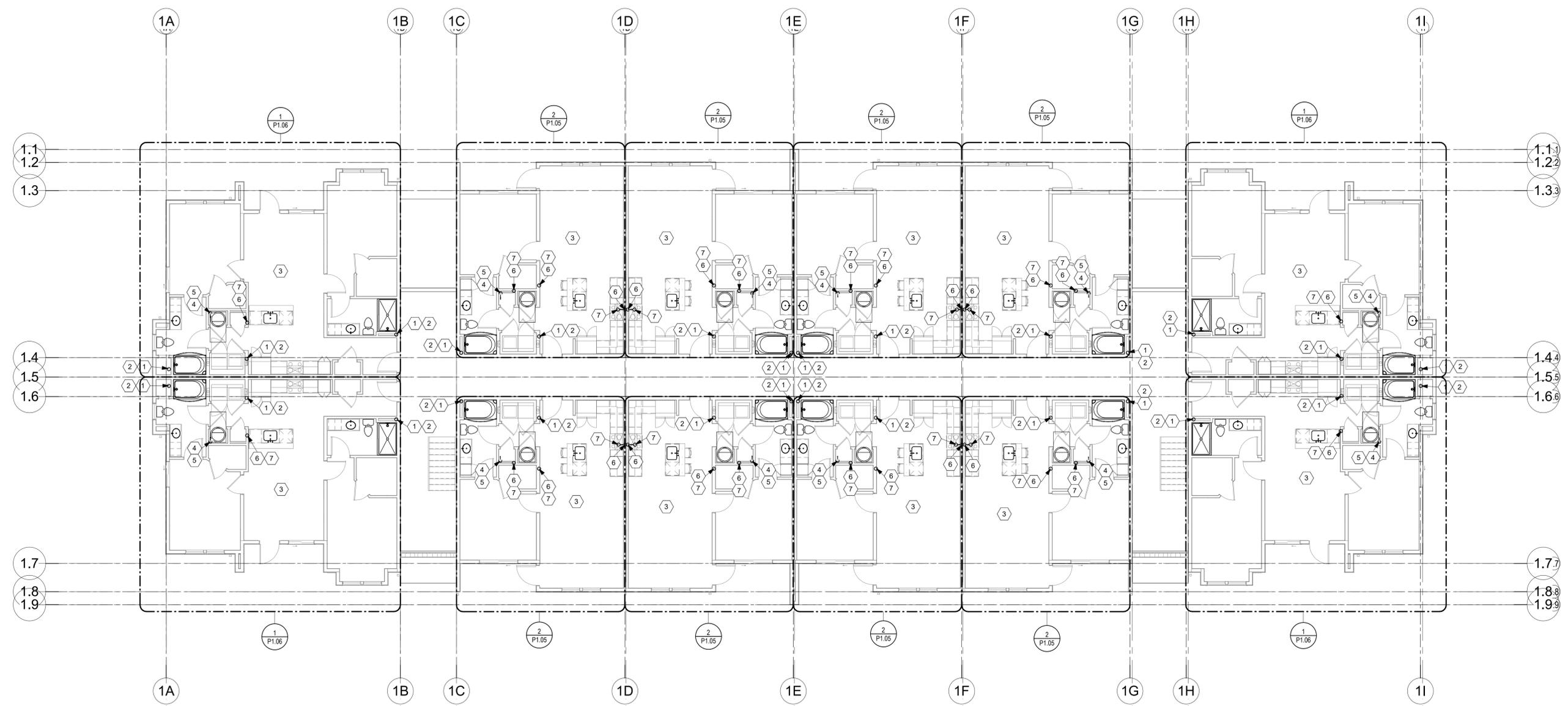
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SHEET NAME
 LEVEL 3 PLUMBING PLAN
 BUILDING A
 SHEET NO.

P1.03A



1 P1.03C LEVEL 3 PLUMBING PLAN-BUILDING C
1/8" = 1'-0"

KEYNOTES

- 1 3" WASTE DOWN TO FLOOR BELOW. REFER TO SHEET P1.02C AND ENLARGED UNIT PLAN FOR CONTINUATION. PROVIDE CLEANOUT AT BASE OF RISER.
- 2 3" VENT UP TO ROOF. REFER TO SHEET P1.04C AND ENLARGED UNIT PLAN FOR CONTINUATION.
- 3 REFER TO ENLARGED UNIT PLANS FOR PIPING.
- 4 3/4" CW PIPE WITH SHUT-OFF VALVE. REFER TO ENLARGED UNIT PLANS FOR CONTINUATION OF PIPING.
- 5 3/4" CW PIPE UP FROM FLOOR BELOW. REFER TO SHEET P1.02C FOR CONTINUATION.
- 6 2" WASTE DOWN TO FLOOR BELOW. REFER TO SHEET P1.02C AND ENLARGED UNIT PLAN FOR CONTINUATION.
- 7 2" VENT UP TO ROOF. REFER TO SHEET P1.04C AND ENLARGED UNIT PLAN FOR CONTINUATION.

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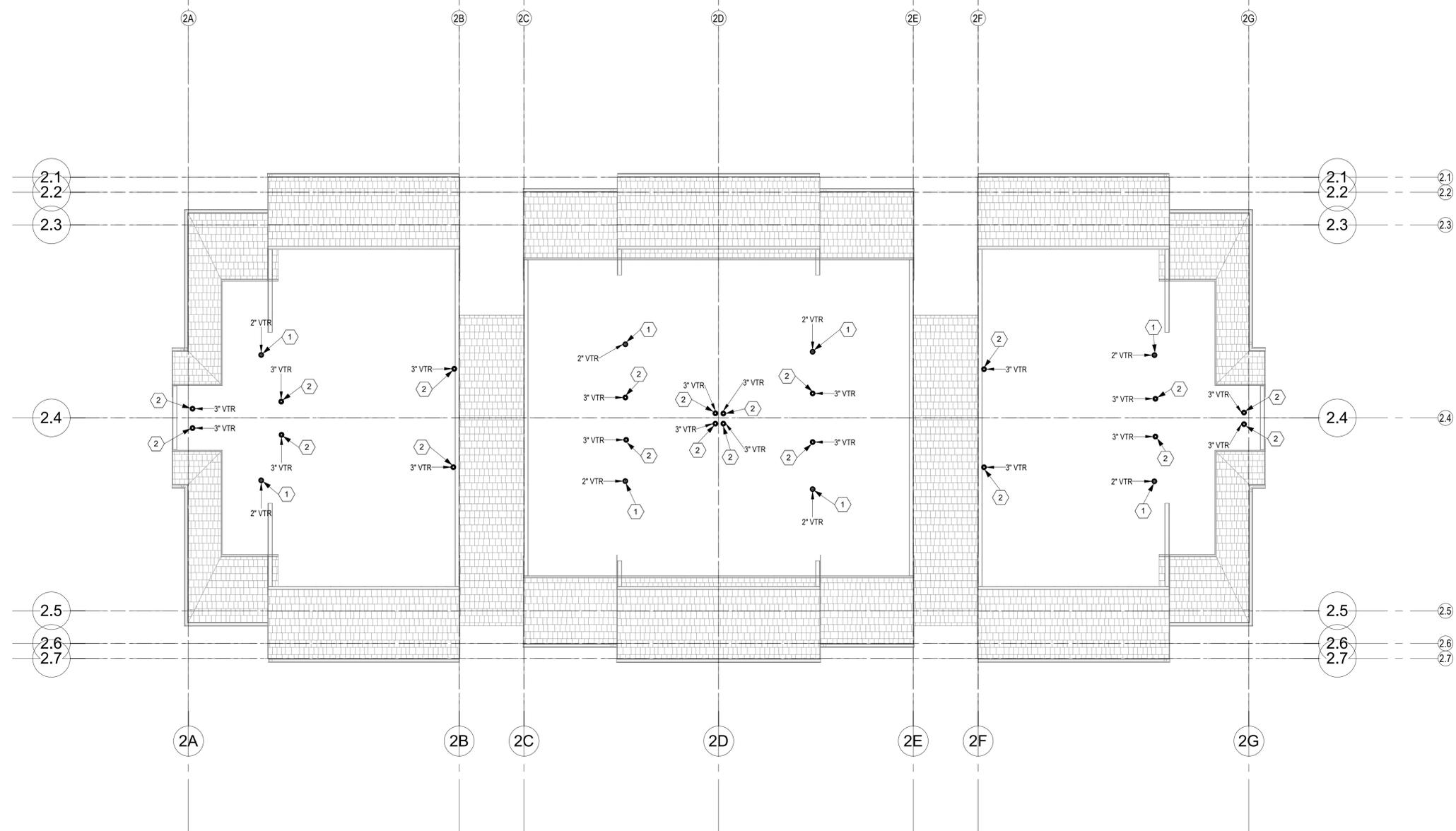
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SHEET NAME
LEVEL 3 PLUMBING PLAN
BUILDING C
SHEET NO.

P1.03C



1 ROOF PLUMBING PLAN-BUILDING A
P1.04A 1/8" = 1'-0"

KEYNOTES

- 1 LOCATION OF 2" VTR. VERIFY 10' CLEARANCE FROM ALL OUTDOOR AIR INTAKES. SEAL PENETRATION WEATHERTIGHT.
- 2 LOCATION OF 3" VTR. VERIFY 10' CLEARANCE FROM ALL OUTDOOR AIR INTAKES. SEAL PENETRATION WEATHERTIGHT.

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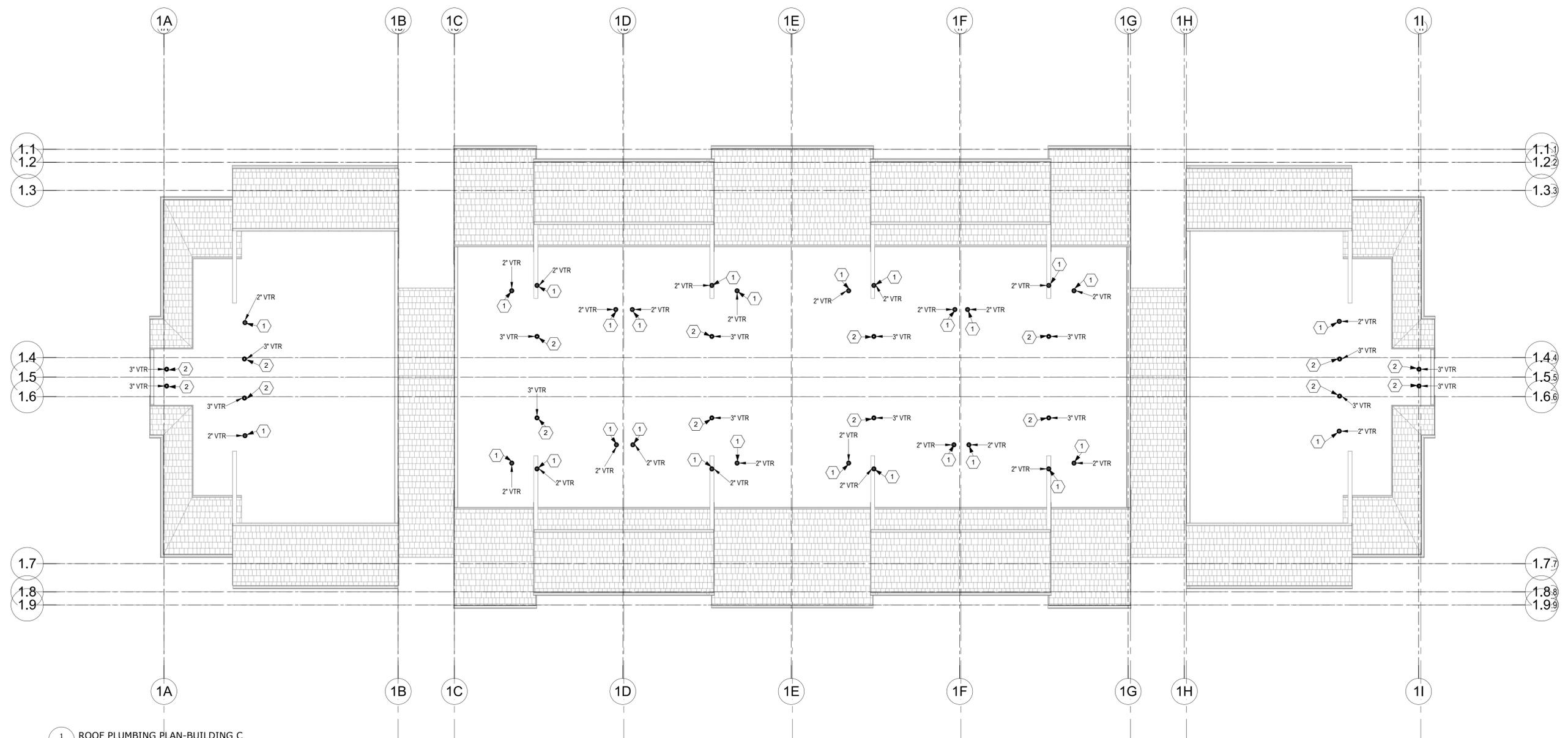
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SHEET NAME
ROOF PLUMBING PLAN
BUILDING A
SHEET NO.

P1.04A



1 ROOF PLUMBING PLAN-BUILDING C
P1.04C 1/8" = 1'-0"

KEYNOTES

- 1 LOCATION OF 2" VTR. VERIFY 10' CLEARANCE FROM ALL OUTDOOR AIR INTAKES. SEAL PENETRATION WEATHERTIGHT.
- 2 LOCATION OF 3" VTR. VERIFY 10' CLEARANCE FROM ALL OUTDOOR AIR INTAKES. SEAL PENETRATION WEATHERTIGHT.

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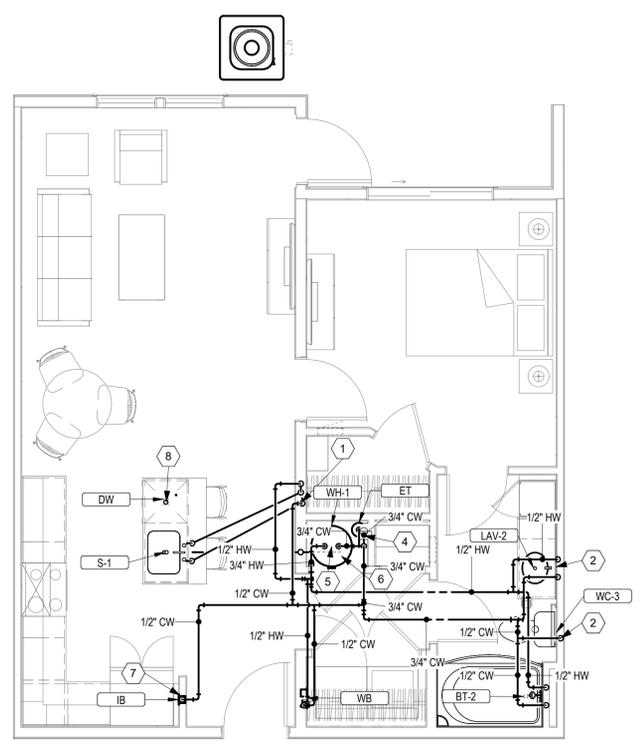
SHEET NAME
ROOF PLUMBING PLAN
BUILDING C
SHEET NO.

P1.04C

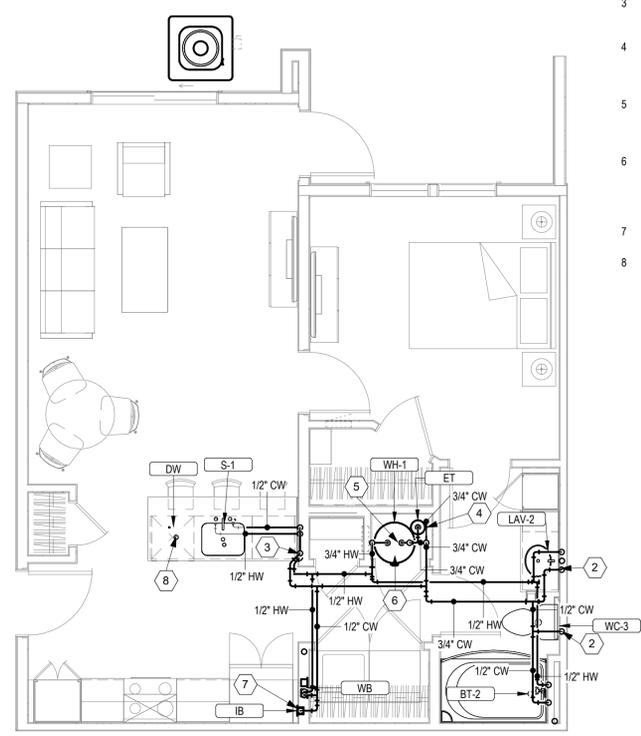


KEYNOTES

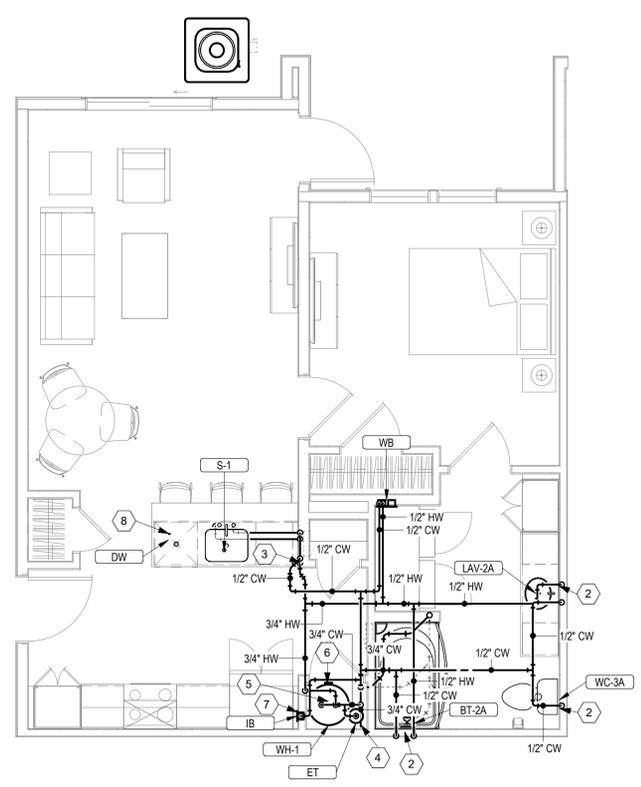
- 1 ROUTE 1/2" CW & HW PIPE DOWN IN WALL TO BELOW FLOOR AND OVER TO SINK AS REQUIRED.
- 2 FIRE CAULK ALL PIPES THAT PENETRATE FIRE RATED WALLS.
- 3 ROUTE 1/2" CW & HW PIPE DOWN IN WALL TO BELOW COUNTER AND OVER TO SINK AS REQUIRED. ROUTE PIPING TIGHT TO COUNTER TOP AS REQUIRED.
- 4 3/4" CW PIPE WITH SHUT-OFF VALVE. INCLUDE WATER SUB-METER AS REQUIRED. COORDINATE FINAL METER SPEC WITH DEVELOPER. REFER TO OVERALL PLUMBING PLANS FOR CONTINUATION OF PIPING.
- 5 3/4" CW & HW PIPING DOWN FOR CONNECTION TO ELECTRIC WATER HEATER. PROVIDE SHUT-OFF VALVES AND DIELECTRIC UNIONS PRIOR TO EQUIPMENT PIPING CONNECTIONS. SET WATER HEATER TO 120°F. RE: DOMESTIC WATER RISER DIAGRAMS FOR FURTHER PIPING REQUIREMENTS.
- 6 PROVIDE ELECTRIC WATER HEATER AND SET ON FLOOR WITH AUXILIARY DRAIN PAN AND SECONDARY DRAIN LINE TO FLOOR DRAIN WITH AIR GAP. COORDINATE EXACT INSTALLATION AND LOCATION OF WATER HEATER WITH MECHANICAL DRAWINGS FOR HVAC UNIT TO BE INSTALLED IN SAME MECHANICAL CLOSET.
- 7 PROVIDE ICE MAKER BOX WITH VALVE FOR CONNECTION TO REFRIGERATOR BY OTHERS.
- 8 CONNECT HW PIPE FROM SINK TO DISHWASHER AS REQUIRED BY MANUFACTURER.



2 UNIT A2 - WATER PLAN
P1.05 1/4" = 1'-0"



1 UNIT A1 - WATER PLAN
P1.05 1/4" = 1'-0"



3 UNIT A1ADA - WATER PLAN
P1.05 1/4" = 1'-0"

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LEE'S SUMMIT, MO 64086

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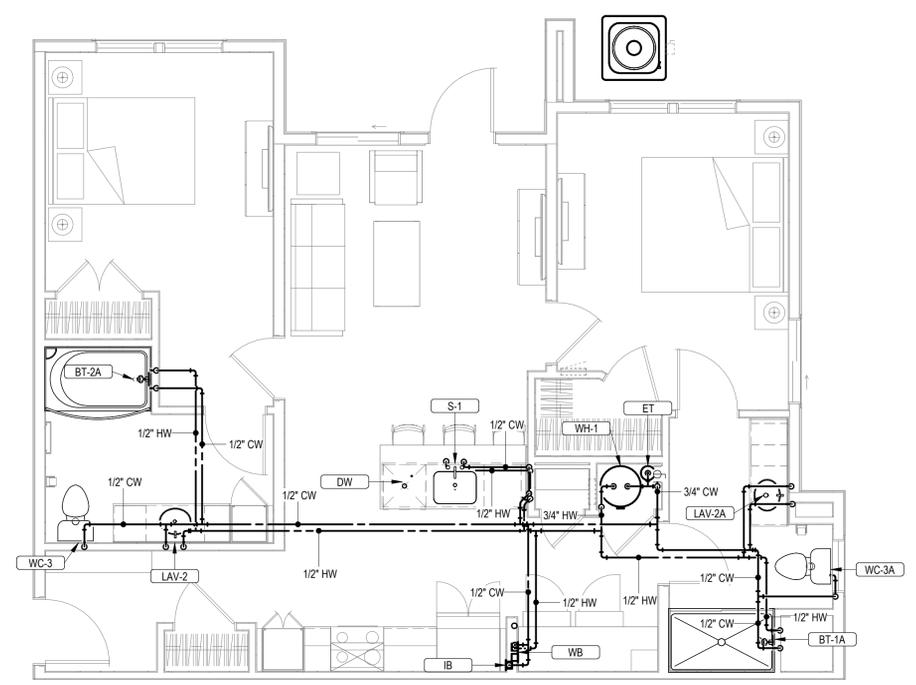
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SHEET NAME ENLARGED UNIT WATER PLANS SHEET NO. **P1.05**

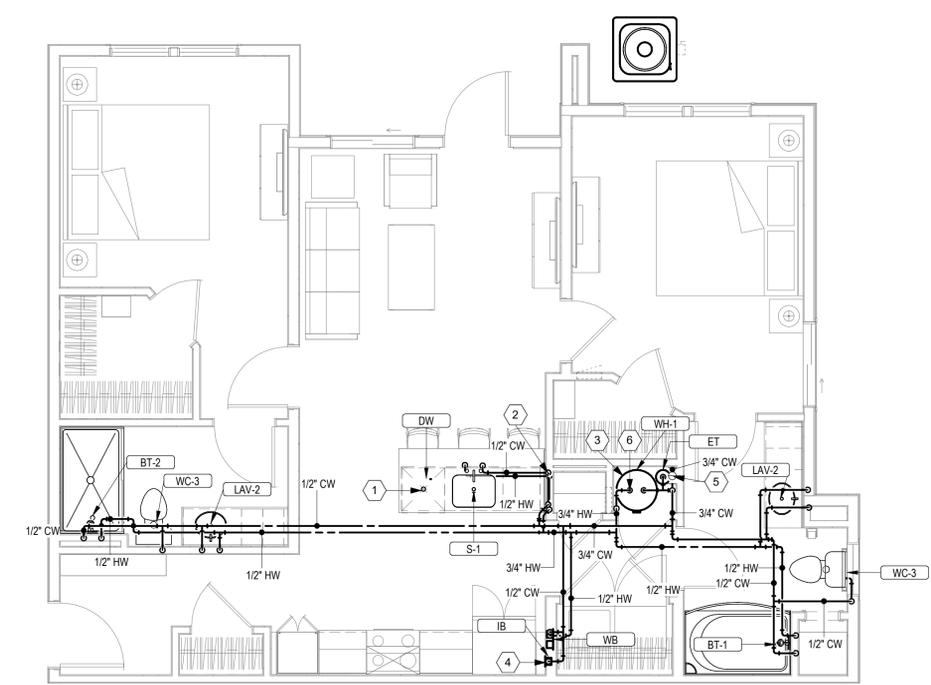


KEYNOTES

- 1 CONNECT HW PIPE FROM SINK TO DISHWASHER AS REQUIRED BY MANUFACTURER.
- 2 ROUTE 1/2" CW & HW PIPE DOWN IN WALL TO BELOW COUNTER AND OVER TO SINK AS REQUIRED. ROUTE PIPING TIGHT TO COUNTER TOP AS REQUIRED.
- 3 PROVIDE ELECTRIC WATER HEATER AND SET ON FLOOR WITH AUXILIARY DRAIN PAN AND SECONDARY DRAIN LINE TO FLOOR DRAIN WITH AIR GAP. COORDINATE EXACT INSTALLATION AND LOCATION OF WATER HEATER WITH MECHANICAL DRAWINGS FOR HVAC UNIT TO BE INSTALLED IN SAME MECHANICAL CLOSET.
- 4 PROVIDE ICE MAKER BOX WITH VALVE FOR CONNECTION TO REFRIGERATOR BY OTHERS.
- 5 3/4" CW PIPE WITH SHUT-OFF VALVE. INCLUDE WATER SUB-METER AS REQUIRED. COORDINATE FINAL METER SPEC WITH DEVELOPER. REFER TO OVERALL PLUMBING PLANS FOR CONTINUATION OF PIPING.
- 6 3/4" CW & HW PIPING DOWN FOR CONNECTION TO ELECTRIC WATER HEATER. PROVIDE SHUTOFF VALVES AND DIELECTRIC UNIONS PRIOR TO EQUIPMENT PIPING CONNECTIONS. SET WATER HEATER TO 120°F. RE: DOMESTIC WATER RISER DIAGRAMS FOR FURTHER PIPING REQUIREMENTS.



2 UNIT B1ADA - WATER PLAN
P1.06 1/4" = 1'-0"



1 UNIT B1 - WATER PLAN
P1.06 1/4" = 1'-0"

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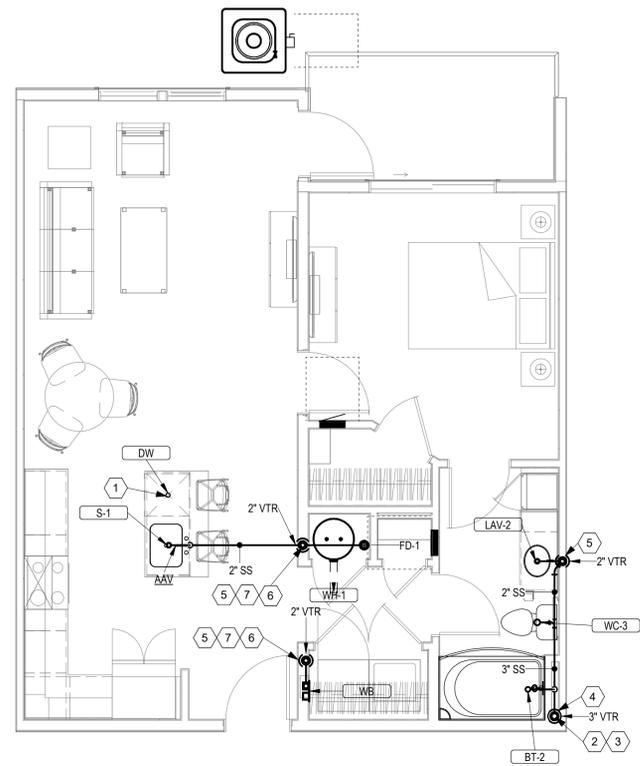
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SHEET NAME ENLARGED UNIT WATER PLANS SHEET NO. **P1.06**

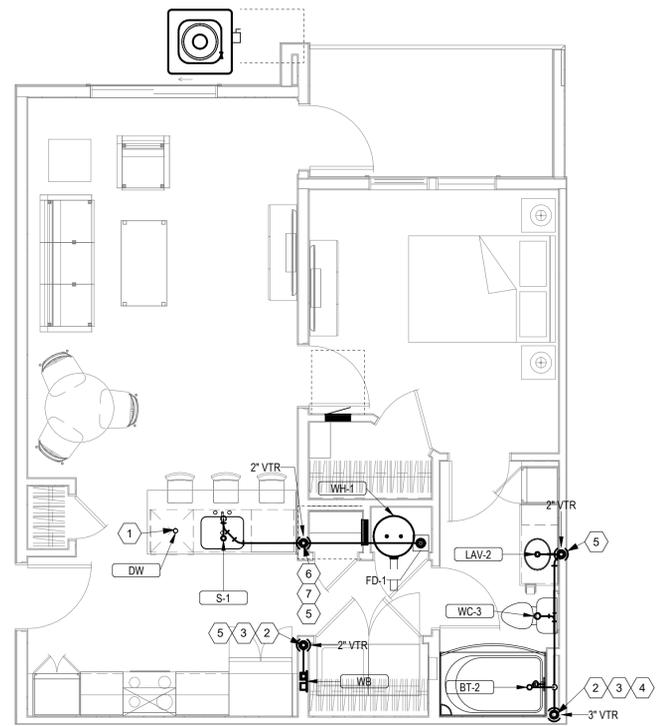


KEYNOTES

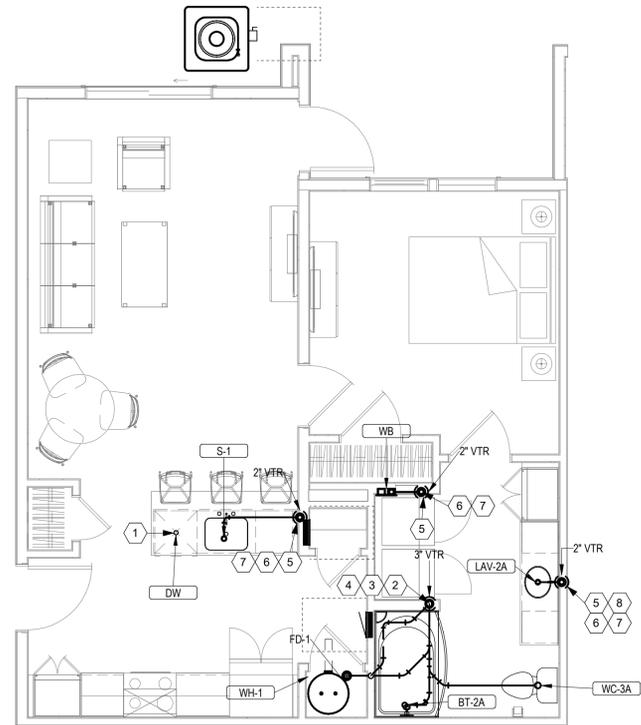
- 1 CONNECT WASTE PIPE FROM DISHWASHER TO SINK AS REQUIRED BY MANUFACTURER.
- 2 3" WASTE PIPE DOWN FROM FLOOR ABOVE.
- 3 3" WASTE PIPE DOWN TO FLOOR BELOW.
- 4 LOCATION OF 3" VTR ON 3RD FLOOR ONLY. VERIFY 10' CLEARANCE FROM ALL OUTDOOR AIR INTAKES. SEAL PENETRATION WEATHERTIGHT.
- 5 LOCATION OF 2" VTR ON 3RD FLOOR ONLY. VERIFY 10' CLEARANCE FROM ALL OUTDOOR AIR INTAKES. SEAL PENETRATION WEATHERTIGHT.
- 6 2" WASTE PIPE DOWN FROM FLOOR ABOVE.
- 7 2" WASTE PIPE DOWN TO FLOOR BELOW.
- 8 FIRE CAULK ALL PIPES THAT PENETRATE FIRE RATED WALLS.



2
UNIT A2 - W/V PLUMBING
1/4" = 1'-0"



1
UNIT A1 - W/V PLUMBING
1/4" = 1'-0"



3
UNIT A1ADA - W/V PLUMBING
1/4" = 1'-0"

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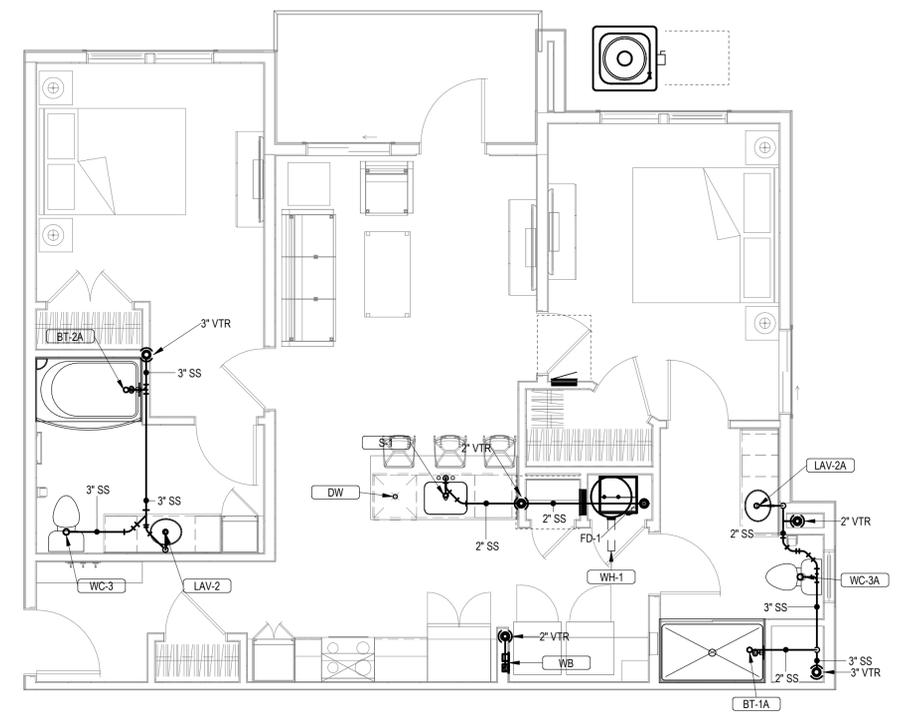
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SHEET NAME ENLARGED UNIT WASTE & VENT PLANS
 SHEET NO. **P1.07**

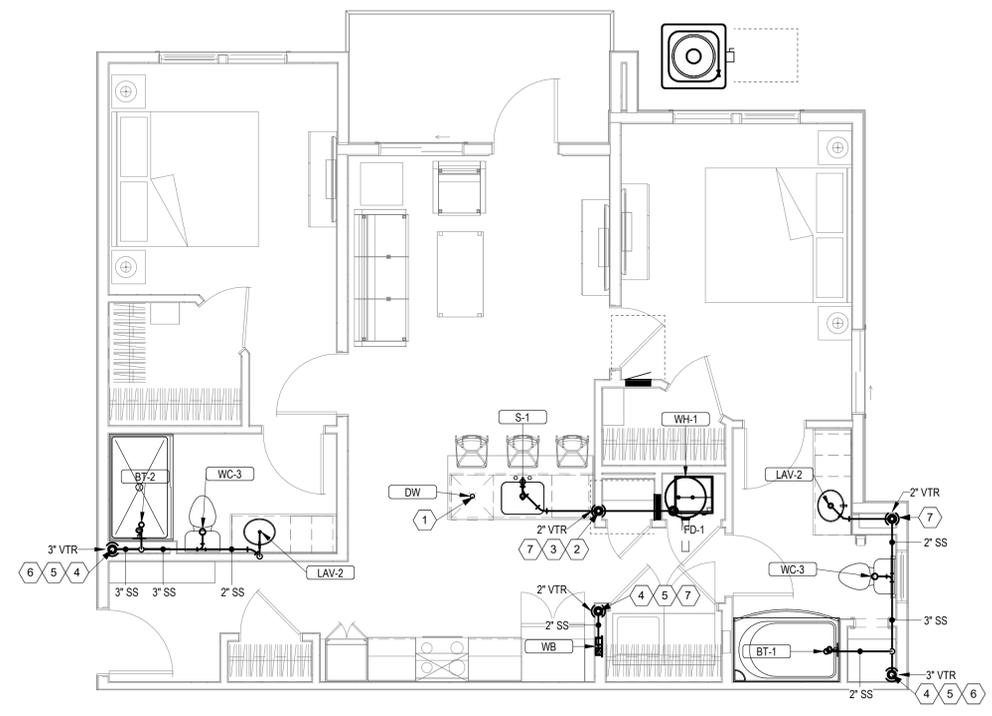


KEYNOTES

- 1 CONNECT WASTE PIPE FROM DISHWASHER TO SINK AS REQUIRED BY MANUFACTURER.
- 2 2" WASTE PIPE DOWN FROM FLOOR ABOVE.
- 3 2" WASTE PIPE DOWN TO FLOOR BELOW.
- 4 3" WASTE PIPE DOWN FROM FLOOR ABOVE.
- 5 3" WASTE PIPE DOWN TO FLOOR BELOW.
- 6 LOCATION OF 3" VTR ON 3RD FLOOR ONLY. VERIFY 10' CLEARANCE FROM ALL OUTDOOR AIR INTAKES. SEAL PENETRATION WEATHERTIGHT.
- 7 LOCATION OF 2" VTR ON 3RD FLOOR ONLY. VERIFY 10' CLEARANCE FROM ALL OUTDOOR AIR INTAKES. SEAL PENETRATION WEATHERTIGHT.



2 UNIT B1ADA - W/V PLUMBING
P1.08 1/4" = 1'-0"



1 UNIT B1 - W/V PLUMBING
P1.08 1/4" = 1'-0"

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SHEET NAME
ENLARGED UNIT WASTE &
VENT PLANS
SHEET NO.
P1.08



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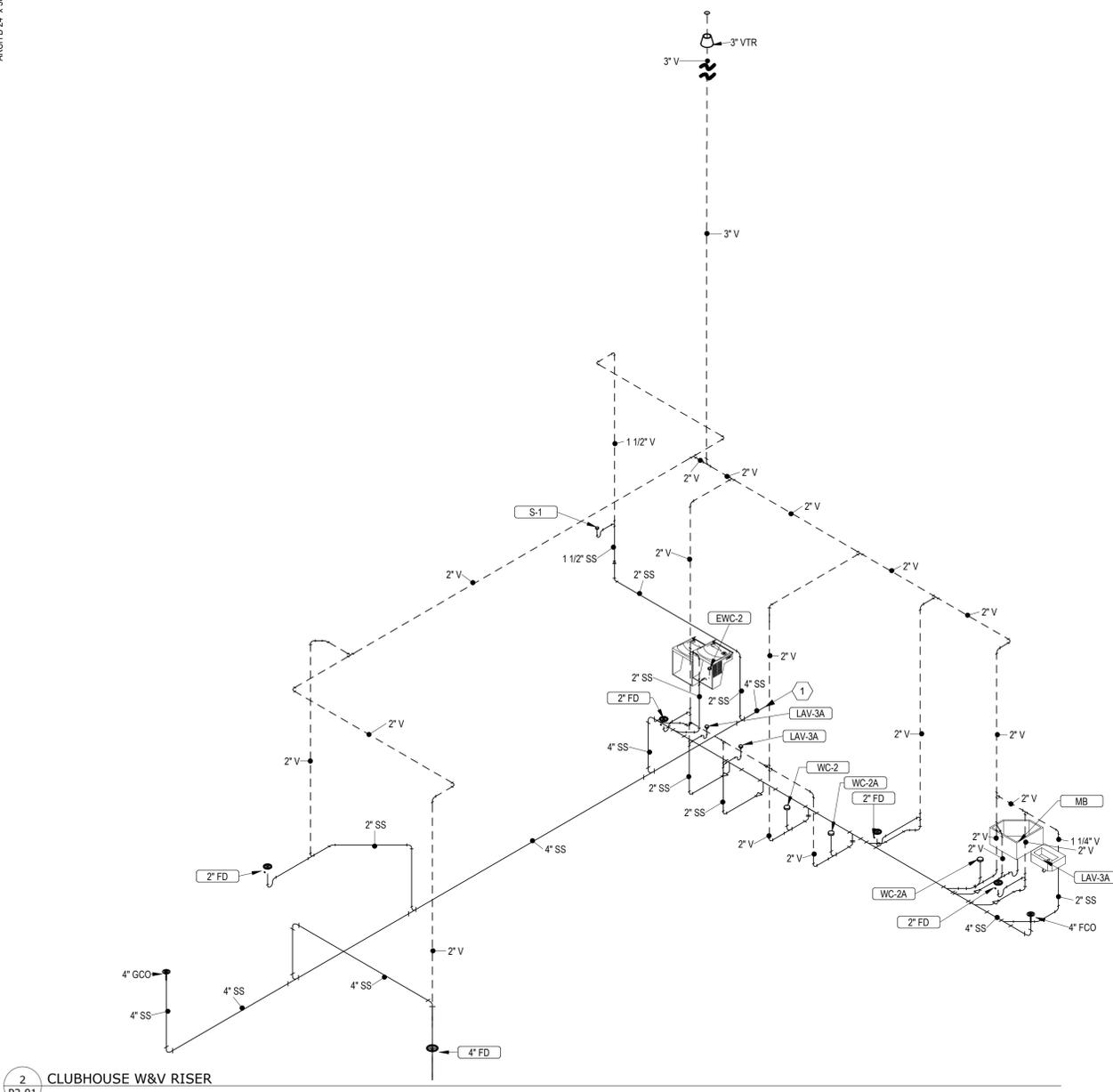
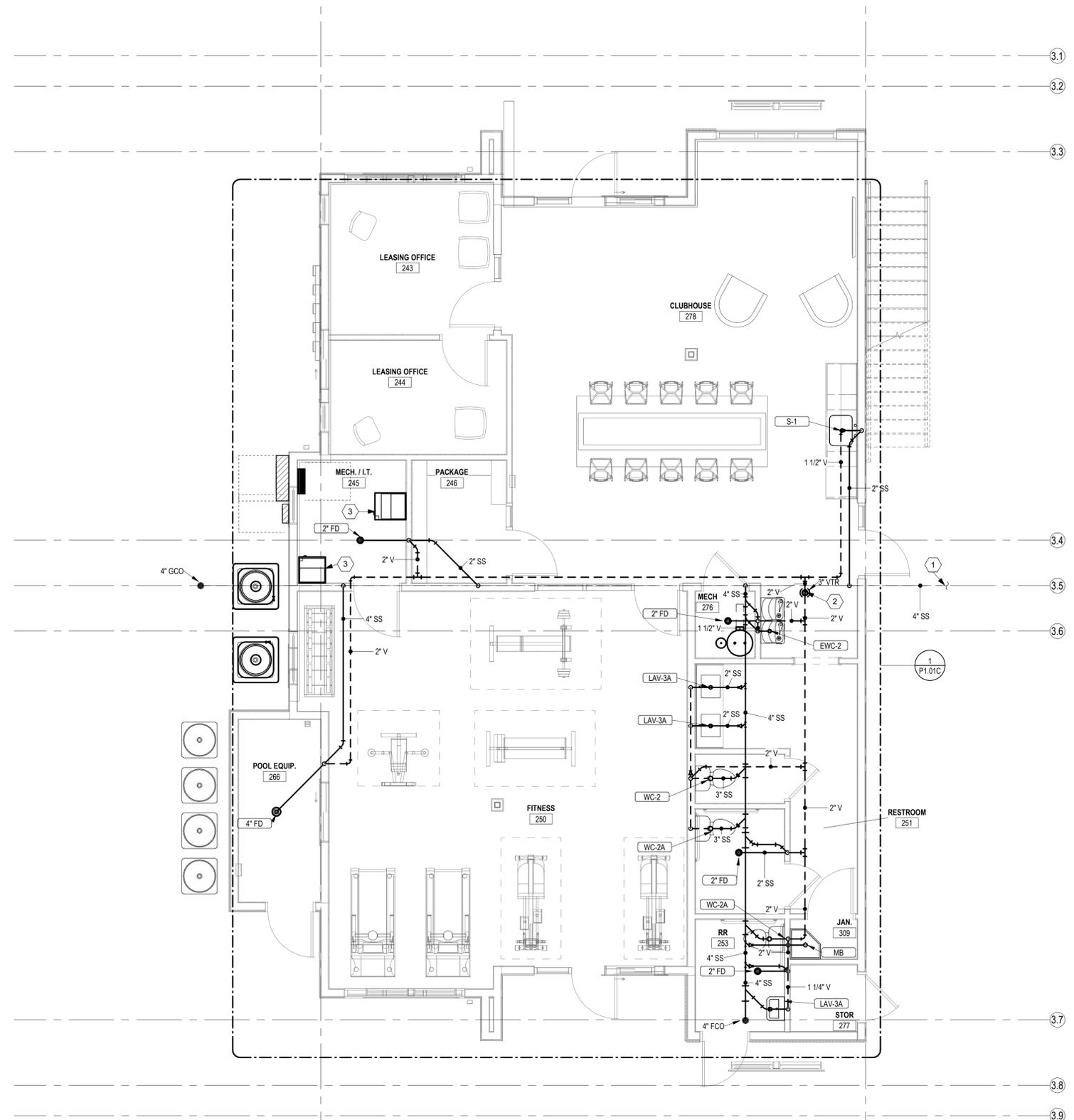
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SHEET NAME CLUBHOUSE WASTE & VENT FLOOR PLAN
SHEET NO. P2.01

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2 P2.01 CLUBHOUSE W&V RISER

1 P2.01 CLUBHOUSE WASTE & VENT
1/4" = 1'-0"

KEYNOTES

- SEE PLUMBING PLAN 1/P1.01C FOR CONTINUATION OF 4" SANITARY.
- EXTEND 3" VENT FULL SIZE UP THRU ROOF AS REQUIRED. VERIFY 10' CLEARANCE FROM ALL OUTDOOR AIR INTAKES. SEAL PENETRATION WEATHERTIGHT. COORDINATE ROUTING WITH UNITS ABOVE.
- CONNECT CONDENSATE TO FURNACE AS REQUIRED AND AS DETAILED.

F.F.E. = 999.25'



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LEE'S SUMMIT, MO 64086

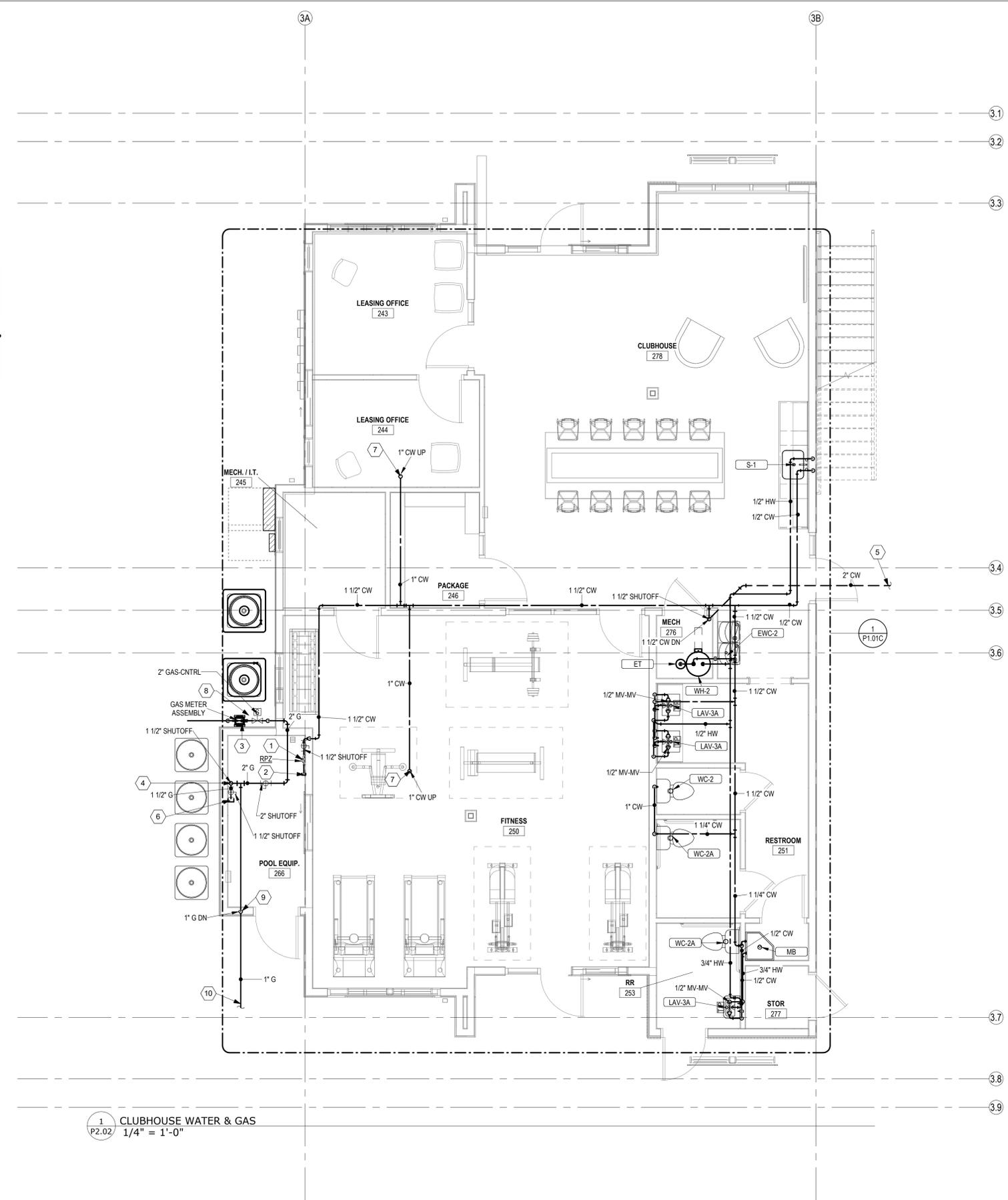
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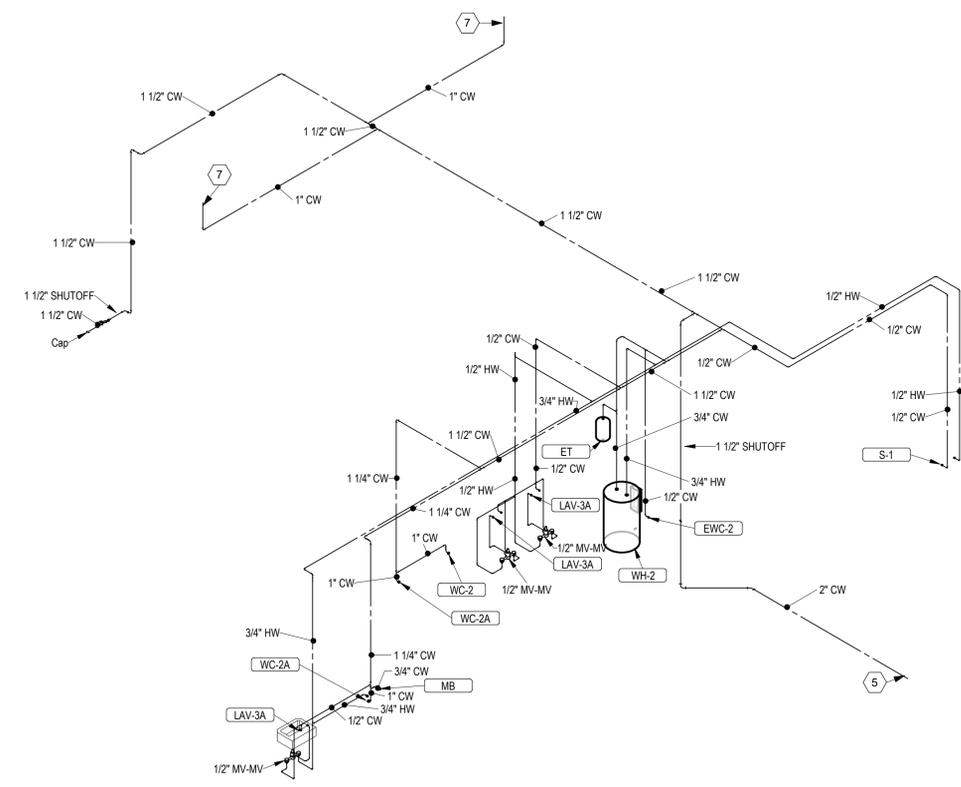
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SHEET NAME CLUBHOUSE WATER & GAS FLOOR PLAN
 SHEET NO. **P2.02**

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1 CLUBHOUSE WATER & GAS
 P2.02 1/4" = 1'-0"



2 CLUBHOUSE H2O RISER
 P2.02

KEYNOTES

- 1 PROVIDE 1-1/2" RPZ BACKFLOW PREVENTER AND INSTALL 24" A.F.F. & 6" FROM WALL. ROUTE DRAIN FROM RPZ BFP TO DAYLIGHT. SEAL EXTERIOR PENETRATION WEATHERTIGHT.
- 2 CAP 1-1/2" CW PIPE FOR FUTURE CONNECTION BY POOL EQUIPMENT SUPPLIER AS REQUIRED.
- 3 COORDINATE WITH GAS COMPANY FOR INSTALLATION OF A METER WITH CAPACITY FOR 720 CFH @ 7"WC. ROUTE PIPING UP INSIDE THE EXTERIOR WALL AND PENETRATE WALL ABOVE CEILING. ALL CONCEALED JOINTS ARE TO BE WELDED OR USE FITTINGS APPROVED FOR CONCEALED USE. VERIFY ALL EQUIPMENT GAS CAPACITIES AND OPERATING PRESSURES PRIOR TO INSTALLATION OF ANY PIPING.
- 4 ROUTE 1-1/2" GAS PIPE DOWN TO 18" ABOVE FLOOR AND ROUTE OVER TO POOL HEATER AS REQUIRED.
- 5 SEE PLUMBING PLAN 1/P1.01C FOR CONTINUATION OF 2" DOMESTIC WATER. UPSIZE WATER FROM THIS POINT TO SERVICE IN BUILDING #5 TYPE C.
- 6 CAP 1-1/2" GAS PIPE FOR FUTURE CONNECTION BY POOL EQUIPMENT SUPPLIER AS REQUIRED.
- 7 1" CW UP TO FLOOR ABOVE. REFER TO SHEET P1.02C AND ENLARGED UNIT PLAN FOR CONTINUATION.
- 8 PROVIDE SOLENOID VALVE FOR EMERGENCY GAS SHUT-OFF.
- 9 ROUTE GAS TO BELOW GRADE TO FUTURE EQUIPMENT AS REQUIRED. ALL CONCEALED JOINTS TO BE WELDED CONSTRUCTION, OR USE FITTINGS APPROVED FOR CONCEALED USE. INSTALL SAFETY PIPE GAS TRAP VALVES PER THE MANUFACTURERS REQUIREMENTS. MAINTAIN MINIMUM 10'-0" CLEARANCE FROM ALL OUTDOOR AIR INTAKES.
- 10 STUB GAS UP AND CAP FOR FUTURE CONNECTION AS REQUIRED. PROVIDE LOCKABLE FLUSH WITH GRADE ENCLOSURE WITH SHUT-OFF VALVE AS REQUIRED. LOCATION TO BE FIELD VERIFIED WITH OWNER PRIOR TO INSTALLATION.

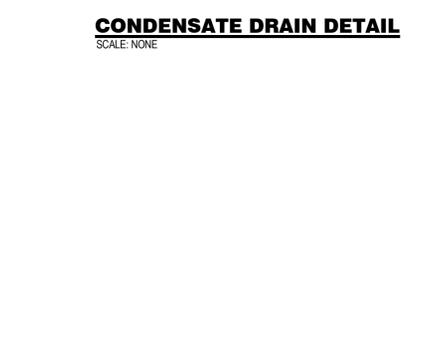
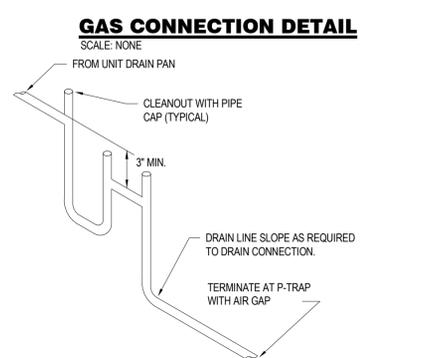
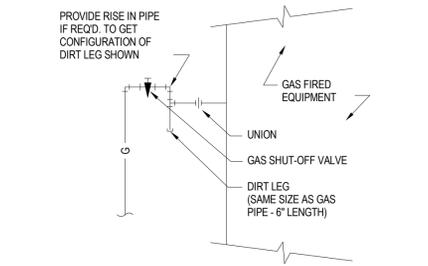


Plumbing Fixture Schedule *ALL PLUMBING FIXTURES SHALL BE WATER SENSE LABELED AS APPLICABLE

BT-1	Shower/Bathtub	CONTRACTOR SELECTED FOR OWNER APPROVAL	CONTRACTOR SELECTED FOR OWNER APPROVAL	SHOWER/TUB, TUB DRAIN WITH OVERFLOW, SINGLE HANDLE TUB/SHOWER VALVE, INTEGRAL CHECK STOPS, MOUNT SHOWER HEAD 6'-6" AFF. ALL VERTICAL PIPING SHALL BE CONCEALED INSIDE WALL.
BT-1A	Shower/Bathtub	CONTRACTOR SELECTED FOR OWNER APPROVAL	CONTRACTOR SELECTED FOR OWNER APPROVAL	FIBERGLASS BATHTUB WITH SIDE PANELS, ONE PIECE UNIT, SOAP DISH, 2" DRAIN, CHROME STOPPER AND OVERFLOW, LEONARD #501P HAND HELD SHOWER, 24" GLIDE RAIL, VACUUM BREAKER, SUPPLY ELBOW, CHROME PLATED DISCONNECT FOR EASY REMOVAL OF SHOWER HOSE, VANDAL RESISTANT SCREWS, 2.5 GPM FLOW RESTRICTOR, TUB/DIVERTER SPOUT, PRESSURE BALANCED VALVE, INTEGRAL CHECK STOPS, CAST WALL FLANGE AND LEVER HANDLE. MOUNT SHOWER HEAD 6'-6" AFF. PROVIDE WITH SEAT AND GRAB BARS.
BT-2	Shower/Bathtub	CONTRACTOR SELECTED FOR OWNER APPROVAL	CONTRACTOR SELECTED FOR OWNER APPROVAL	SHOWER/TUB, TUB DRAIN WITH OVERFLOW, SINGLE HANDLE TUB/SHOWER VALVE, INTEGRAL CHECK STOPS, MOUNT SHOWER HEAD 6'-6" AFF. ALL VERTICAL PIPING SHALL BE CONCEALED INSIDE WALL.
BT-2A	Shower/Bathtub	CONTRACTOR SELECTED FOR OWNER APPROVAL	CONTRACTOR SELECTED FOR OWNER APPROVAL	FIBERGLASS BATHTUB WITH SIDE PANELS, 2" DRAIN, CHROME STOPPER AND OVERFLOW, HAND HELD SHOWER, 24" GLIDE RAIL, VACUUM BREAKER, SUPPLY ELBOW, CHROME PLATED DISCONNECT FOR EASY REMOVAL OF SHOWER HOSE, VANDAL RESISTANT SCREWS, 2.5 GPM FLOW RESTRICTOR, TUB/DIVERTER SPOUT, PRESSURE BALANCED VALVE, INTEGRAL CHECK STOPS, CAST WALL FLANGE AND LEVER HANDLE. MOUNT SHOWER HEAD 6'-6" AFF. PROVIDE WITH SEAT AND GRAB BARS PER ARCHITECTURAL DRAWINGS.
DW	Dishwasher	CONTRACTOR SELECTED FOR OWNER APPROVAL	CONTRACTOR SELECTED FOR OWNER APPROVAL	CONTRACTOR SELECTED FOR OWNER APPROVAL
EWC-2	Water Cooler	CONTRACTOR SELECTED FOR OWNER APPROVAL	CONTRACTOR SELECTED FOR OWNER APPROVAL	BARRIER FREE TWO-STATION WATER COOLER WITH VERSAFILLER BOTTLE FILLER, 8.0 GPH, 50 DEGREES F WATER WITH 90 DEGREES F AIR TEMPERATURE, 120 VOLT, COLOR TO BE SELECTED BY ARCHITECT AFTER AWARD OF CONTRACT, FRONT AND SIDE ANTIMICROBIAL PUSH PADS, ANTIMICROBIAL FLEX BUBBLERS, CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT, CHROME PLATED LOOSE KEY ANGLE STOP, FLOOR MOUNTED CARRIER AND CANE APRON.
FD	Floor Drain	Sox Chief	842	PVC FLOOR DRAIN WITH ADJUSTABLE TOP AND CAST BRASS STRAINER. PROVIDE WITH QUAD CLOSE TRAP SEAL DEVICE.
FD-1	Floor Drain	Zurm	FD2	FLOOR DRAIN FOR WOOD FLOORS AND DECKS, ADJUSTABLE TOP, 5" PVC STRAINER. PROVIDE TRAP SEAL DEVICE. TO BE USED AT ANY LOCATION NOT SLAB ON GRADE.
IB	Ioe Box	Sox Chief	696-Rg1010Mf	ICE BOX WITH 1/2" INLET AND CONNECTION AND 1/4-TURN SHUT OFF VALVE.
LAV-2	Lavatory, Countertop	CONTRACTOR SELECTED FOR OWNER APPROVAL	CONTRACTOR SELECTED FOR OWNER APPROVAL	VITREOUS CHINA, OVAL BASIN, FAUCET WITH SINGLE METAL LEVER HANDLE, GRID DRAIN WITH 1-1/4" TAILPIECE, CHROME PLATED P-TRAP, CHROME PLATED ANGLE STOPS AND RISERS.
LAV-2A	Handicapped Lavatory, Countertop	CONTRACTOR SELECTED FOR OWNER APPROVAL	CONTRACTOR SELECTED FOR OWNER APPROVAL	VITREOUS CHINA, OVAL BASIN, FAUCET WITH SINGLE METAL LEVER HANDLE, OFFSET GRID DRAIN WITH 1-1/4" TAILPIECE, CHROME PLATED P-TRAP(MOUNTED PARALLEL WITH WALL), CHROME PLATED ANGLE STOPS AND RISERS,INSULATE EXPOSED DRAIN, WATER SUPPLIES, AND VALVES WITH PROWRAP SEAMLESS MOLDED CLOSED CELL VINYL INSULATION.
LAV-3A	Handicapped Lavatory, Countertop	CONTRACTOR SELECTED FOR OWNER APPROVAL	CONTRACTOR SELECTED FOR OWNER APPROVAL	VITREOUS CHINA, RECTANGULAR BASIN, FAUCET WITH WRIST BLADE HANDLES, OFFSET GRID DRAIN WITH 1-1/4" TAILPIECE, CHROME PLATED P-TRAP(MOUNTED PARALLEL WITH WALL), CHROME PLATED ANGLE STOPS AND RISERS,INSULATE EXPOSED DRAIN, WATER SUPPLIES, AND VALVES WITH PROWRAP SEAMLESS MOLDED CLOSED CELL VINYL INSULATION.
MB	Mop Basin	Fiat	TSBC1610	MOLDED STONE MOP BASIN, 2" DRAIN, 24"x 24"x 12" DEEP BASIN, VINYL BUMPER GUARD, STERN WILLIAMS #T-10-VB FAUCET, SPRING CHECKS, VACUUM BREAKER, INTEGRAL STOPS, WALL BRACE & PAIL HOOK, WALL BRACKET WITH 30" HOSE.
S-1	Sink	CONTRACTOR SELECTED FOR OWNER APPROVAL	CONTRACTOR SELECTED FOR OWNER APPROVAL	19"x16"x 6-1/2" DEEP BOWL, 21-3/8"x 21-3/8" CUT-OUT, ADA COMPLIANT, SINGLE COMPARTMENT, SELF-RIMMING STAINLESS STEEL SINK WITH SATIN FINISH AND SOUND DAMPENING UNDERCOATING, FAUCET, SWING SPOUT, AERATOR, SINGLE LEVER HANDLE, CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT, CHROME PLATED ANGLE STOPS AND RISERS, IN-SINK-ERATOR #BADGER 5 DISPOSAL, 1/2 HP, 120 VOLT.
WB	Washer Box	Sox Chief	696-2313MF	WASHER BOX WITH 1-1/2" DRAIN OUTLET AND TAILPIECE, AND 1/2" HOSE BIBBS.
WC-2	Water Closet	CONTRACTOR SELECTED FOR OWNER APPROVAL	CONTRACTOR SELECTED FOR OWNER APPROVAL	VITREOUS CHINA, FLOOR MOUNTED, FLOOR OUTLET, ELONGATED BOWL, SIPHON-JET ACTION, FLUSH VALVE, 1.28 GAL/FLUSH, WHITE OPEN FRONT ELONGATED SEAT WITH CHECK HINGE.
WC-2A	Handicapped Water Closet	CONTRACTOR SELECTED FOR OWNER APPROVAL	CONTRACTOR SELECTED FOR OWNER APPROVAL	VITREOUS CHINA, FLOOR MOUNTED, FLOOR OUTLET, 17-1/2" HIGH ELONGATED BOWL, SIPHON-JET ACTION, FLUSH VALVE, 1.28 GAL/FLUSH, WHITE OPEN FRONT ELONGATED SEAT WITH CHECK HINGE. HANDLE ON WIDE SIDE OF FIXTURE.
WC-3	Water Closet	CONTRACTOR SELECTED FOR OWNER APPROVAL	CONTRACTOR SELECTED FOR OWNER APPROVAL	1.28 GALLON FLUSH, ELONGATED BOWL, FLOOR MOUNTED, FLOOR OUTLET, TANK TYPE, VITREOUS CHINA, SIPHON-JET ACTION, CLOSED FRONT SEAT WITH CHECK HINGE AND COVER, CHROME PLATED ANGLE STOP AND RISER.
WC-3A	Handicapped Water Closet	CONTRACTOR SELECTED FOR OWNER APPROVAL	CONTRACTOR SELECTED FOR OWNER APPROVAL	1.28 GALLON FLUSH, 16-1/2" HIGH ELONGATED BOWL, FLOOR MOUNTED, FLOOR OUTLET, TANK TYPE, VITREOUS CHINA, SIPHON-JET ACTION, CLOSED FRONT SEAT WITH CHECK HINGE AND COVER, CHROME PLATED ANGLE STOP AND RISER, HANDLE ON WIDE SIDE OF FIXTURE.

PIPE HANGER SCHEDULE

PIPE MATERIAL	MAXIMUM HANGER SPACING	HANGER ROD DIAMETER
ABS (All sizes)	4'	3/8"
PVC (All Sizes)	4'	3/8"
CPVC, 1 inch and smaller	3'	1/2"
CPVC, 1-1/4 inches and larger	4'	1/2"
Cast Iron (All Sizes)	5'	5/8"
Cast Iron (All Sizes) with 10 Foot length of pipe	10'	5/8"
Copper Tube, 1-1/4 inches and smaller	6'	1/2"
Copper Tube, 1-1/2 inches and larger	10'	1/2"
Steel, 3 inches and smaller	12'	1/2"
Steel, 4 inches and larger	12'	5/8"
Pex, 1" and below without support channel	32"	3/8"
Pex, 1-1/4" and above without support channel	48"	3/8"
Pex 3/4" and below with support channel	6'	3/8"
Pex 1" and above with support channel	8'	3/8"



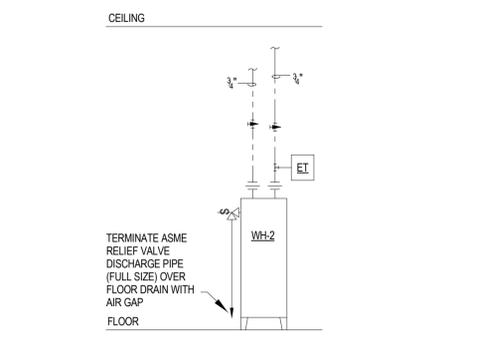
PLUMBING GENERAL NOTES:

- INSTALL ALL PIPE, ETC. AS HIGH AS POSSIBLE.
- COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS REQUIRED TO PROPERLY INSTALL ALL SYSTEMS AS INTENDED, WITHIN THE CONFINES OF THE SPACES AVAILABLE, AND WITHOUT INTERFERENCES.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF FIXTURES.
- REFER TO ARCHITECTURAL & STRUCTURAL DRAWINGS FOR REQUIREMENTS FOR SUPPORTING PIPING, EQUIPMENT, ETC. FROM THE STRUCTURE. PROVIDE ADDITIONAL STEEL AS REQUIRED TO PROPERLY SUPPORT SYSTEMS FROM THE STRUCTURE.
- PROVIDE 1" SCHEDULE 40 PVC CONDENSATE DRAIN PIPE FOR EACH AIR HANDLING UNIT TO NEAREST FLOOR DRAIN. PROVIDE WATER TRAP AND CLEAN OUTS AS DETAILED. SECURE PVC PIPE TO DRAIN WITH NYLON STRAP.
- NO PIPING SHALL BE ROUTED OVER THE TOP OF ELECTRICAL PANELS.
- CONTRACTOR TO TEST WATER PRESSURE ON SITE AND PROVIDE PRESSURE REDUCING VALVE ON WATER SERVICE IF PRESSURE IS OVER 80 PSI.

PLUMBING FIXTURE BRANCH PIPING SCHEDULE

FIXTURE	WASTE	VENT	CW	HW
WATER CLOSET (TANK TYPE)	3"	2"	1/2"	--
WATER CLOSET (FLUSH VALVE)	4"	2"	1"	--
LAVATORY	1-1/4"	1-1/4"	1/2"	1/2"
SINK	1-1/2"	1-1/2"	1/2"	1/2"
FLOOR DRAIN	2"	2"	--	--
MOP BASIN	2"	2"	3/4"	3/4"
SHOWER/TUB	2"	2"	1/2"	1/2"
ELECTRIC WATER COOLER (BI-LEVEL)	1-1/2"	1-1/2"	1/2"	--

NOTE: INDIVIDUAL VENTS FOR FIXTURES ON PLANS AND RISER DIAGRAMS HAVE BEEN INCREASED WHERE HORIZONTAL VENT LENGTH IS IN EXCESS OF THE MAXIMUM DISTANCE INDICATED BY THE CODE.



WATER HEATER DETAIL
SCALE: NONE

Water Heater Schedule

WH-1	AO Smith	ENL-40	1	38.0 gal	4500 W	240 V	1	Yes	488 lb	ASME TEMPERATURE AND PRESSURE RELIEF VALVE. DRAIN PANS TO BE INSTALLED UNDER WATER HEATERS ABOVE FIRST FLOOR.
WH-2	AO Smith	DEN-30	1	30.0 gal	4500 W	240 V	1	Yes	349 lb	ASME TEMPERATURE AND PRESSURE RELIEF VALVE

Expansion Tank Schedule

DET-XX	Antrol	ST-5	2.0 gal	No	27 lb
ET	Antrol	ST-5	2.0 gal	No	27 lb

Backflow Device Schedule

DCDA	WATTS	LF007	Grooved Connections AWWA C606
RPZ	WATTS	LF009	LEAD FREE BRONZE BODY CONSTRUCTION, TWO, IN-LINE INDEPENDENT CHECK VALVES, REPLACEABLE CHECK SEATS WITH AN INTERMEDIATE RELIEF VALVE, AND BALL VALVE TEST COCKS.

Mixing Valve Schedule

MV	WATTS	LFMMV1-UT	THERMOSTATIC CONTROLLED MIXING VALVE, LEAD FREE BRONZE BODY, LOCKED TEMPERATURE ADJUSTMENT CAP (VANDAL RESISTANT), SOLID WAX HYDRAULIC PRINCIPLE THERMOSTAT, INTEGRAL FILTER WASHERS AND CHECK VALVES ON HOT AND COLD INLETS, (SET TO 110°F) ASSE #1017, #1069, #1070
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Air Admittance Valve Schedule

AAV	Studor	Mini Vent	-1/2" AND 2" PIPE SIZES, ANSII/ASSE 1051, ANSII/ASSE 1050, NSF 14, WARNOCK HERSEY APPROVED. INSTALL PER THE MANUFACTURERS REQUIREMENTS.
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BUILDING A PLUMBING DRAINAGE CALCULATIONS

FIXTURE	QUANTITY	FU	TOTAL FU
WATER CLOSSETS	4	4	16
BATHUBS	4	4	16
LAVATORIES	9	9	36
SINKS	24	24	96
FLOOR DRAIN	1	1	4
DISHWASHER	1	1	4
TOTAL			168 FU

BUILDING C PLUMBING DRAINAGE CALCULATIONS

FIXTURE	QUANTITY	FU	TOTAL FU
WATER CLOSSETS	4	4	16
BATHUBS	4	4	16
LAVATORIES	9	9	36
SINKS	24	24	96
FLOOR DRAIN	1	1	4
DISHWASHER	1	1	4
TOTAL			168 FU

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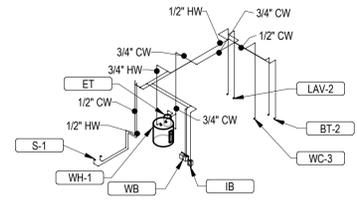
A NEW APARTMENT COMMUNIT AT:
DOUGLAS STATION
NW SLOAN & NE SYCAMORE ST
LEE'S SUMMIT, MO 64086

DRAWING RELEASE LOG
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• 03/22/24 50% CD Set
• 04/19/24 90% CD Set

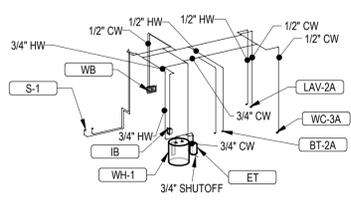
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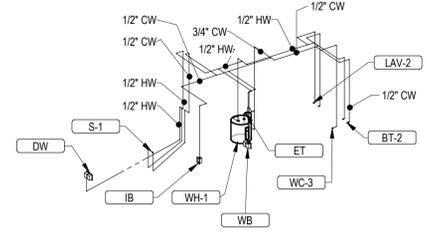
SHEET NAME **PLUMBING DETAILS & SCHEDULES**
SHEET NO. **P3.01**



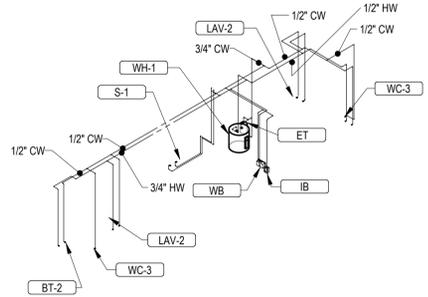
1 UNIT A1 WATER RISER
P3.02



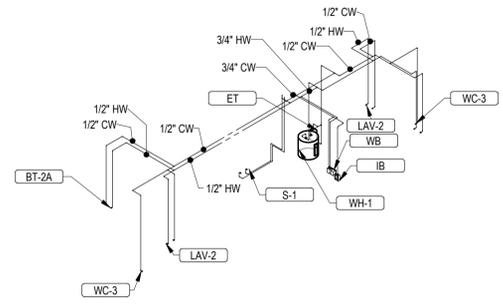
2 UNIT A1A WATER RISER
P3.02



6 UNIT A2 WATER RISER
P3.02



4 UNIT B1 WATER RISER
P3.02



5 UNIT B1 ADA WATER RISER
P3.02

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