5TH WARD RESIDENCES 72 UNIT APARTMENT BUILDING

LA CROSSE, WISCONSIN

ISG PROJECT # 20-24403

PROJECT GENERAL NOTES

1	ALL WORK SHALL CONFORM TO THE CONTRACT DOCUMENTS, WHICH INCLUDE, BUT ARE NOT LIMITED TO, THE OWNER - CONTRACTOR AGREEMENT, THE PROJECT MANUAL (WHICH INCLUDES GENERAL AND SUPPLEMENTARY CONDITIONS AND SPECIFICATIONS), DRAWINGS OF ALL DISCIPLINES AND ALL ADDENDA, MODIFICATIONS AND CLARIFICATIONS ISSUED BY THE ARCHITECT / ENGINEER.
2	CONTRACT DOCUMENTS SHALL BE ISSUED TO ALL SUBCONTRACTORS BY THE GENERAL CONTRACTOR IN COMPLETE SETS IN ORDER TO ACHIEVE THE FULL EXTENT AND COMPLETE COORDINATION OF ALL WORK. CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND CORRELATING QUANTITIES AND DIMENSIONS.
3	WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR CONDITIONS REQUIRING INFORMATION OR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
4	FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NOTIFY ARCHITECT / ENGINEER OF ANY DISCREPANCIES OR CONDITIONS REQUIRING INFORMATION OR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
5	DETAILS SHOWN ARE INTENDED TO BE INDICATIVE OF THE PROFILES AND TYPE OF DETAILING REQUIRED THROUGHOUT THE WORK. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO DETAILS SHOWN. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, NOTIFY ARCHITECT / ENGINEER BEFORE PROCEEDING WITH THE WORK.
6	ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED, ERECTED, CLEANED AND CONDITIONED ACCORDING TO MANUFACTURERS' INSTRUCTIONS. IN CASE OF DISCREPANCIES BETWEEN MANUFACTURERS' INSTRUCTIONS AND THE CONTRACT DOCUMENTS, NOTIFY ARCHITECT / ENGINEER BEFORE PROCEEDING WITH THE WORK.
7	LARGE-SCALE, MORE SPECIFIC DETAILS TAKE PRECEDENCE OVER SMALLER-SCALE, LESS SPECIFIC DETAILS AND INFORMATION. MORE STRINGENT REQUIREMENTS FOR CODE, PRODUCTS AND INSTALLATION TAKE PRECEDENCE OVER LESS STRINGENT REQUIREMENTS. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR CONDITIONS REQUIRING INFORMATION OR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
8	PROVIDE CONTINUOUS SEALANT AROUND ALL MATERIALS AT EXTERIOR WALL PENETRATIONS.
9	ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER TO AVOID GALVANIC CORROSION.
10	SEAL ALL OPENINGS IN WALLS, FLOORS, CEILINGS, AND ROOFS AROUND DUCTS, PIPES, VENTS, TRAPS, CONDUIT AND ALL OTHER PENETRATIONS WITH FIRE STOPPING AS SPECIFIED AND REQUIRED BY CODES.
11	PROVIDE SOLID WALL BACKING WITH WOOD BLOCKING BEHIND DOOR HARDWARE SUCH AS WALL STOPS, BUMPERS, HOLD OPENS, ETC.
12	BATH EXHAUST - SYSTEM TO BE 50 CFM.
13	ATTIC VENTILATION - NET FREE AREA NOT LESS THAN 1/300 OF VENTILATION AREA.
14	EACH BEDROOM SHALL BE PROVIDED WITH AN EGRESS WINDOW COMPLYING W/ IBC SECTION 1029, MIN CLEAR OPENING WIDTH OF 20" AND HEIGHT OF 24".
15	WALL AND FLOOR CONSTRUCTION TO MEET SOUND TRANSMISSION LIMITATIONS PER IBC 1207.2.
16	CONTRACTOR TO INSTALL ONE 5 POUND FIRE EXTINGUISHER IN EACH UNIT KITCHEN CABINET. FIRE EXTINGUISHERS SHALL BE PROVIDED PER IBC SECTION 906 AND MAINTAINED PER NFPA 13.
17	MANUAL FIRE ALARM SYSTEM REQUIRED THROUGHOUT STRUCTURE.
18	PROVIDE INTERCONNECTED SMOKE ALARMS IN EACH BEDROOM, OUTSIDE EACH SLEEPING AREA AND ON EACH STORY WITHIN THE DWELLING UNIT.
19	ALL DOOR HARDWARE TO MEET ICC/ANSI A117.1 SECTION 404.2.6 FOR OPERABILITY.
20	CONTRACTOR TO PROVIDE ADEQUATE BLOCKING FOR ALL WALL HUNG VANITIES, REQUIRED GRAB BARS AND TOWEL BARS PER OWNER'S REQUIREMENTS.
21	FIRE BLOCKING SHALL BE PROVIDED IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF EACH RUN. FIRST FLOOR DWELLING UNIT WALLS/SECOND FLOOR STAIR LANDING, SHARED STAIR CEILING/DWELLING UNIT STAIR FLOOR AND DWELLING UNIT SEPARATION AT FLOOR/CEILING ASSEMBLY.
22	ALL GARAGE OVERHEAD DOORS MUST BE DESIGNED AND SIZED TO WITHSTAND LOADS CAUSED BY PRESSURE AND SUCTION OF WIND ACTING NORMAL TO PLANE OF WALL AS CALCULATED IN ACCORDANCE WITH APPLICABLE CODE.
23	ALL OPERABLE WINDOWS SHALL BE PROVIDED WITH INSECT SCREENS.
24	THE GYPSUM BOARD SHALL BE INSTALLED ON ALL FIRE RATED AND APARTMENT SEPARATION WALLS PRIOR TO THE TUBS/SHOWERS BEING INSTALLED.
25	AT A MINIMUM, ICE AND WATER GUARD SHALL EXTEND FROM THE EDGE TO THE ROOF TO A POINT A MINIMUM OF 24" INSIDE THE LINE OF THE EXTERIOR WALLS AND IN ALL VALLEYS OF THE ROOF.
26	ALL EXTERIOR FINISHES INCLUDING SIDING SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION DETAILS.
27	ALL WINDOWS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS.
28	THE UNDERSLAB VAPOR RETARDER MUST BE TIGHTLY SEALED.

SHEET INDEX

PROJECT INDEX:

OWNER:

STIZO DEVELOPMENT
2 COPELAND AVE #201
LA CROSSE, WISCONSIN 54603
608.779.0400

PROJECT ADDRESS:

1325 ST ANDREW ST
LA CROSSE, WISCONSIN 54601

MANAGING OFFICE:

ISG

LA CROSSE OFFICE
201 MAIN STREET
SUITE 1020
LA CROSSE, WISCONSIN 54601
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PROJECT MANAGER: KEVIN BILLS
EMAIL: KEVIN.BILLS@ISGINC.COM

WISCONSIN — KEVIN M. BILLS — E-41009 — LA CROSSE, WI — ARCHITECT

WISCONSIN — DYLAN C MUSGJERD — E-48208 — SALEM, WISC — PROFESSIONAL ENGINEER

WISCONSIN — KRISTOPHER B. ROPPE — E-45845 — ONALASKA, WISC — PROFESSIONAL ENGINEER

REFERENCE SCALE
1" = 1'
2"
1"
1/4" 1/2"
0

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ISG

PROJECT

5TH WARD RESIDENCES

72 UNIT APARTMENT BUILDING

LA CROSSE WISCONSIN

REVISION SCHEDULE

DATE	DESCRIPTION	BY

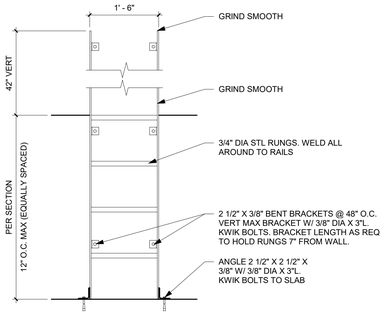
PROJECT NO.	20-24403
FILE NAME	24403 Apartments Arch- R20.rvt
DRAWN BY	KAP
DESIGNED BY	KMB
REVIEWED BY	KMB
ORIGINAL ISSUE DATE	09/15/2021
CLIENT PROJECT NO.	

TITLE

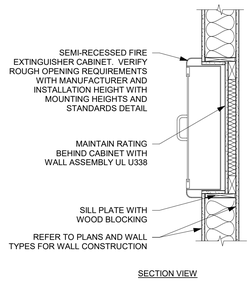
TITLE SHEET, SHEET INDEX, PROJECT GENERAL NOTES

SHEET

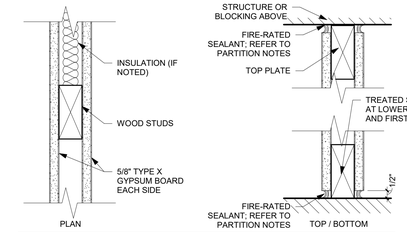
G1-10



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



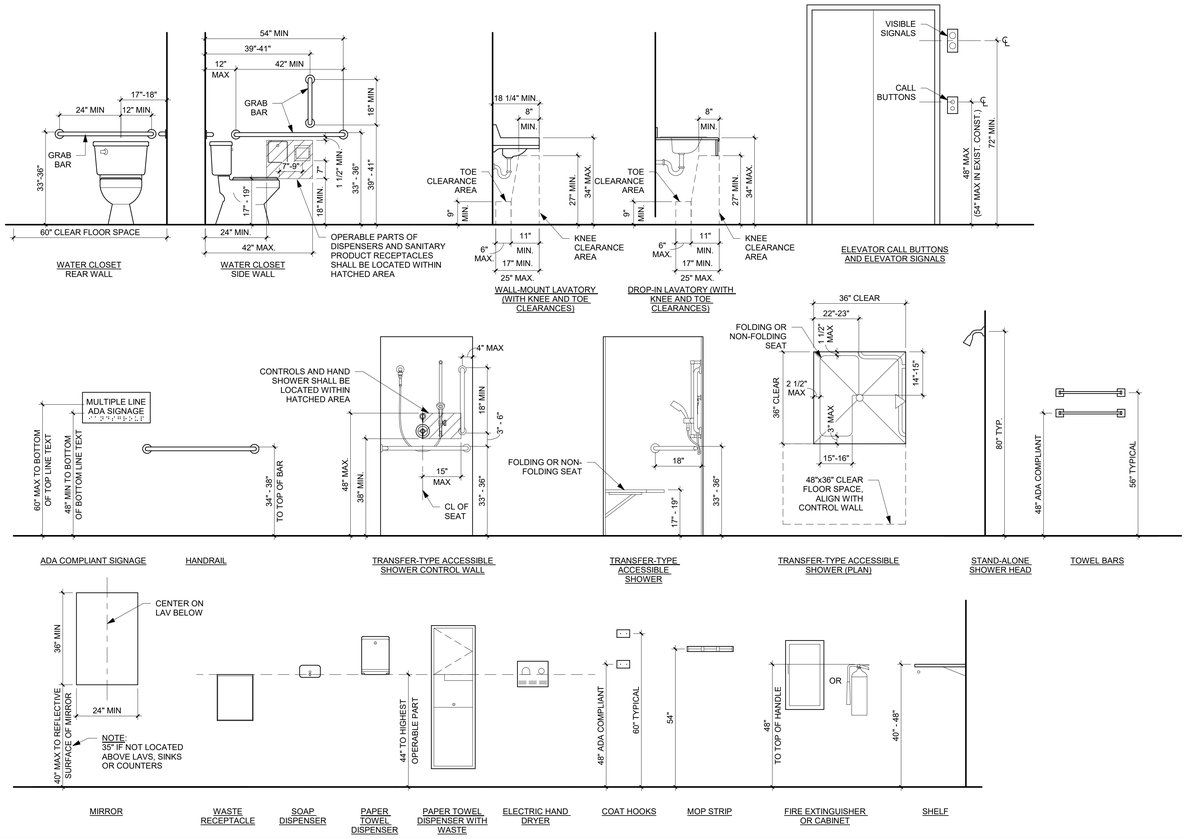
2 FIRE EXTINGUISHER - SEMI RECESSED
1" = 1'-0"

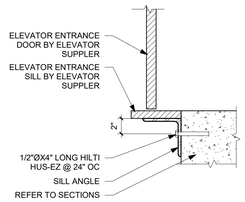


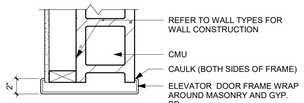
WALL TYPE	STUD DESIGNATION	SPACING		FIRE RATING / UL DESIGN	KEY NOTES
	2x4 FLAT	24"		U338	1, 2
WALL TYPE FOR USE BEHIND SEMI-RECESSED FIRE EXTINGUISHERS IN 1 HOUR RATED WALL ASSEMBLIES					

3 WALL TYPE BEHIND FEC (WOOD STUD - 1-HOUR FIRE RATED)
3" = 1'-0"

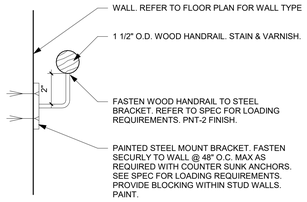
MOUNTING HEIGHTS AND STANDARDS







4 ELEVATOR DOOR DETAILS
1 1/2" = 1'-0"



5 WALL MOUNT HANDRAIL - WOOD
3" = 1'-0"

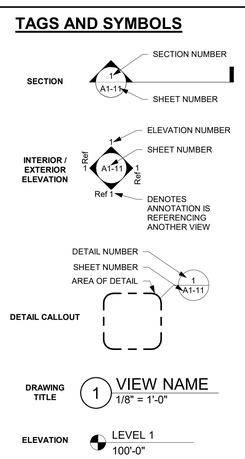
ABBREVIATIONS

#	POUND OR NUMBER	EPX	EPOXY	LAV	LAVATORY	RGH / R/W	RIGHT OF WAY
210	TO BE DETERMINED	EQ	EQUAL	LB	POUND	RTE	REFER TO ELEVATION
@	AT	EQUIP	EQUIPMENT	LLH	LONG LEG HORIZONTAL	RTU	ROOF TOP UNIT
ACT	ACOUSTICAL CEILING TILE	ETC	ETCETERA	LLV	LONG LEG VERTICAL	SA	SUPPLY AIR
ADA	AMERICANS WITH DISABILITIES ACT	EWC	ELECTRIC WATER COOLER	LN	LINEAR	SC	SEALED CONCRETE
ADD	ADDENDUM	EWC	ELECTRIC WATER COOLER	LVT	LUXURY VINYL TILE	SF	SQUARE FOOT
ADDL	ADDITIONAL	EX	EXISTING	MATL	MATERIAL	SIM	SIMILAR
ADJ	ADJACENT	EXP	EXPANSION	MAX	MAXIMUM	SM	SURFACE MOUNTED
AFF	ABOVE FINISH FLOOR	EXT	EXTERIOR	MECH	MECHANICAL	SPEC	SPECIFICATION
AFG	ABOVE FINISHED GRADE	F&I	FURNISH AND INSTALL	MEP	MECHANICAL, ELECTRICAL, PLUMBING	SS	SOLID SURFACE
AHU	AIR HANDLING UNIT	FA	FRESH AIR	MEZZ	MEZZANINE	SSTL	STAINLESS STEEL
ALT	ALTERNATE	FAAP	FIRE ALARM ANNUNCIATOR PANEL	MFR	MANUFACTURER	STD	STANDARD
ALUM	ALUMINUM	FACP	FIRE ALARM CONTROL PANEL	MH	MANHOLE	STN	STONE
APPROX	APPROXIMATELY	FBO	FURNISHED BY OTHERS	MIN	MINIMUM	STOR	STORAGE
ARCH	ARCHITECTURAL	FD	FLOOR DRAIN	MIR	MIRROR	SUSP	SUSPENDED
BD	BOARD	FE	FIRE EXTINGUISHER	MISC	MISCELLANEOUS	SV	SHEET VINYL
BLDG	BUILDING	FEC	FIRE EXTINGUISHER CABINET	MO	MASONRY OPENING	SY	SQUARE YARDS
BO	BOTTOM OF OR BY OWNER	FF	FLOOR FINISH	MTD	MOUNTED	TAG	TONGUE AND GROOVE
BRG	BEARING	FFE	FINISHED FLOOR ELEVATION	MULL	MULLION	T&P	TEMPERATURE AND PRESSURE
BSMT	BASEMENT	FRP	FIBERGLASS REINFORCED PLASTIC	NA	NOT APPLICABLE	TBD	TO BE DETERMINED
C	CONDUIT	FRZ	FREEZER	NIC	NOT IN CONTRACT	TEL	TELEPHONE
CFS	COLD FORMED STEEL	FT	FOOT OR FEET	NTS	NOT TO SCALE	TEMP	TEMPERATURE
CG	CORNER GUARD	FTG	FOOTING	OC	ON CENTER	TER	TERRAZZO
CIP	CAST IN PLACE	GA	GAUGE	OCEW	ON CENTER EACH WAY	TO	TOP OF
CJ	CONTROL JOINT OR CONSTRUCTION JOINT	GALV	GALVANIZED	OD	OUTSIDE DIAMETER	TOF	TOP OF FOOTING
CL	CENTERLINE	GC	GENERAL CONTRACTOR	OH	OVERHEAD	TOL	TOP OF LEDGE
CLG	CEILING	GEN	GENERATOR	OHD	OVERHEAD DOOR	TOS	TOP OF STEEL
CLR	CLEAR	GFCI	GROUND FAULT CIRCUIT INTERRUPT	OL	OVERALL LENGTH	TOW	TOP OF WALL
CM	CORRUGATED METAL	GL	GLAZING	OPNG	OPENING	TP	TOILET PARTITION
CMU	CONCRETE MASONRY UNIT	GND	GROUND	ORD	OVERFLOW ROOF DRAIN	TR	TAMPER RESISTANT
CO	CLEANOUT	GYP	GYPSUM	OSB	ORIENTED STRAND BOARD	TS	TUBE STEEL / THRESHOLD / TRANSITION STRIP
CONC	CONCRETE	HD	HUB DRAIN	PC	PHOTO CELL	TV	TELEVISION
CONF	CONFERENCE	HDG	HOT DIP GALVANIZED	PLAM	PLASTIC LAMINATE	TYP	TYPICAL
CONT	CONTINUOUS	HDW	HARDWARE	PLWP	PLASTIC LAMINATE WALL PANEL	UG	UNDERGROUND
CPT	CARPET	HM	HOLLOW METAL	PNT	PAINT	UH	UNIT HEATER
CR	CHAIR RAIL	HORIZ	HORIZONTAL	POLYETH	POLYETHYLENE	UNO	UNLESS NOTED OTHERWISE
CRK	CORK	HSS	HOLLOW STRUCTURAL SECTION	POLYISO	POLYISOCYANURATE	VCT	VINYL COMPOSITE TILE
CT	CERAMIC TILE	HT	HEIGHT	PRV	POWER ROOF VENTILATOR	VERT	VERTICAL
CV	CUBIC YARD	HVAC	HEATING VENTILATION AND AIR CONDITIONING	PVC	POLYVINYL CHLORIDE	VEST	VESTIBULE
DEMO	DEMOLITION	ID	INSIDE DIAMETER	QT	QUARRY TILE	VIF	VERIFY IN FIELD
DF	DRINKING FOUNTAIN	IG	ISOLATED GROUND	QTZ	QUARTZ	VTR	VENT THROUGH ROOF
DH	DOOR HOLDER (MAGNETIC)	IMP	INSULATED METAL PANEL	RA	RETURN AIR	VWP	VENEER WALL PANEL
DIA	DIAMETER	INFO	INFORMATION	RB	RESILIENT BASE	W/	WITH
EA	EACH	INP	IN-PLACE	RBR	RUBBER	W/O	WITHOUT
EC	ELECTRICAL CONTRACTOR	INSUL	INSULATION	RCP	REFLECTED CEILING PLAN	WC	WATER CLOSET
EF	EXHAUST FAN	INT	INTERIOR	RD	ROOF DRAIN	WCG	WALL COVERING
EIFS	EXTERIOR INSULATION FINISH SYSTEM	J	JUNCTION BOX	REF	REFRIGERATOR	WD	WOOD
ELEC	ELECTRICAL	JAN	JANITOR	REINF	REINFORCED	WF	WALL FINISH
ELEV	ELEVATION	JBE	JOIST BEARING ELEVATION	REQD	REQUIRED	WG	WALL GUARD
EMERG	EMERGENCY	JST	JOIST	REV	REVISION / REVISED	WH	WALL HYDRANT
ENCL	ENCLOSURE	KES	KITCHEN EQUIPMENT SUPPLIER	RM	ROOM	WHTR	WATER HEATER
EPDM	ETHYLENE PROPYLENE DIENE MONOMER	kW	KILOWATT	RO	ROUGH OPENING	WP	WEATHERPROOF
						WWF	WELDED WIRE FABRIC
						XFMR	TRANSFORMER

MATERIALS KEY

- BATT INSULATION
- BRICK
- CONCRETE (SECTION)
- CMU (SECTION)
- EARTH
- GRANULAR FILL
- GRAVEL
- GYPSUM BOARD OR SHEATHING
- RIGID INSULATION
- PLYWOOD
- SAND
- STEEL
- SYNTHETIC STUCCO
- WOOD
- SPRAY IN PLACE INSULATION

TAGS AND SYMBOLS



REFERENCE SCALE
1" = 1'
0 1/4" 1" 2"

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PROJECT

5TH WARD RESIDENCES

72 UNIT APARTMENT BUILDING

LA CROSSE WISCONSIN

REVISION SCHEDULE

DATE	DESCRIPTION	BY

PROJECT NO.	20-24403
FILE NAME	24403 Apartments Arch- R20.rvt
DRAWN BY	KAP
DESIGNED BY	KMB
REVIEWED BY	KMB
ORIGINAL ISSUE DATE	09/15/2021
CLIENT PROJECT NO.	

TITLE

MOUNTING HEIGHTS AND STANDARDS, ABBREVIATIONS AND SYMBOLS

SHEET

G1-11

GENERAL CODE DATA

24403 5TH WARD RESIDENCES 72 UNIT APARTMENT BUILDING – LA CROSSE, WISCONSIN
CODE DATA – PRELIMINARY 8/19/21

OWNER

NAME
STREET ADDRESS
CITY, STATE

ARCHITECT

ISG
201 MAIN STREET, SUITE 1020
LA CROSSE, WISCONSIN 54601

BUILDING LOCATION

STREET ADDRESS
LA CROSSE, WISCONSIN

BUILDING CODE

WISCONSIN COMMERCIAL BUILDING CODE, CHAPTER SPS-362 (BASED ON 2015 INTERNATIONAL BUILDING CODE)

ACCESSIBILITY CODE

WISCONSIN COMMERCIAL BUILDING CODE
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

OCCUPANCY CLASSIFICATION AND USE

RESIDENTIAL GROUP R-2
STORAGE GROUP S-2

DWELLING UNITS

TWO PERCENT OF 72 TOTAL UNITS = 1.44 UNITS = TWO TYPE A UNITS REQUIRED
(TWO TYPE A UNITS PROVIDED)
ALL STORIES REQUIRED TO BE ACCESSIBLE, WITH ALL TYPE A AND / OR TYPE B UNITS
(ALL STORIES ACCESSIBLE, WITH ALL TYPE A AND TYPE B UNITS – 70 TYPE B UNITS PROVIDED)

FIRE PROTECTION SYSTEMS

FULLY SPRINKLERED (NFPA 13)

MIXED USE AND OCCUPANCY

SEPARATED OCCUPANCIES
SPECIAL PROVISIONS – 2015 IBC 510.4 PARKING BENEATH GROUP R

CONSTRUCTION TYPE

TYPE IB – GROUP S-2 ENCLOSED PARKING GARAGE (FIRST FLOOR)
PRIMARY STRUCTURAL FRAME: 2 HOUR RATED
EXTERIOR BEARING WALLS: 2 HOUR RATED
INTERIOR BEARING WALLS: 2 HOUR RATED
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS: 2 HOUR RATED
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS: 1 HOUR RATED
TYPE VA – GROUP R-2 RESIDENTIAL APARTMENTS (SECOND FLOOR THROUGH FIFTH FLOOR)
PRIMARY STRUCTURAL FRAME: 1 HOUR RATED
EXTERIOR BEARING WALLS: 1 HOUR RATED
INTERIOR BEARING WALLS: 1 HOUR RATED
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS: 1 HOUR RATED
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS: 1 HOUR RATED

FIRE AND SMOKE PROTECTION FEATURES

FIRE BARRIERS
SHAFT ENCLOSURES
ELEVATOR HOISTWAY ENCLOSURE: 2 HOUR RATED
OTHER SHAFT ENCLOSURES: 2 HOUR RATED
INTERIOR EXIT STAIRWAY ENCLOSURES: 2 HOUR RATED
ELEVATOR MACHINE ROOM: 2 HOUR RATED
FIRE PARTITIONS
DWELLING UNIT SEPARATION: 1 HOUR RATED
CORRIDORS: 1 HOUR RATED
HORIZONTAL ASSEMBLIES
SEPARATED CONSTRUCTION TYPES / SEPARATED OCCUPANCIES (2015 IBC 510.4): 2 HOUR RATED (BETWEEN FIRST FLOOR AND SECOND FLOOR)
DWELLING UNIT SEPARATION: 1 HOUR RATED
ELEVATOR MACHINE ROOM: 2 HOUR RATED
OPENING PROTECTIVES
FIRE BARRIERS (2 HOURS)
SHAFT ENCLOSURES: 1½ HOUR RATED
INTERIOR EXIT STAIRWAY ENCLOSURES: 1½ HOUR RATED
OTHER FIRE BARRIERS (2 HOURS): 1½ HOUR RATED
FIRE PARTITIONS (CORRIDOR WALLS – 1 HOUR): ½ HOUR RATED
OTHER FIRE PARTITIONS (1 HOUR): ½ HOUR RATED
ENCLOSED ELEVATOR LOBBIES OR ELEVATOR HOISTWAY DOOR OPENING PROTECTION AT RATED CORRIDORS: 1 HOUR RATED
STC RATING (DWELLING UNIT SEPARATION): 50 (45 IF FIELD TESTED)
IIC RATING (DWELLING UNIT SEPARATION): 50 (45 IF FIELD TESTED)
FIREBLOCKING

BUILDING HEIGHT

ALLOWABLE NUMBER OF STORIES (2015 IBC 510.4)
GROUP S-2 ENCLOSED PARKING GARAGE (FIRST FLOOR): 1 STORY ABOVE GRADE PLANE
GROUP R-2 RESIDENTIAL APARTMENTS (SECOND FLOOR THROUGH FIFTH FLOOR): 4 STORIES ABOVE ENCLOSED PARKING GARAGE
ACTUAL NUMBER OF STORIES
GROUP S-2 ENCLOSED PARKING GARAGE (FIRST FLOOR): 1 STORY ABOVE GRADE PLANE
GROUP R-2 RESIDENTIAL APARTMENTS (SECOND FLOOR THROUGH FIFTH FLOOR): 4 STORIES ABOVE ENCLOSED PARKING GARAGE
ALLOWABLE HEIGHT (2015 IBC 510.4): 70 FEET ABOVE GRADE PLANE
ACTUAL HEIGHT: 70 FEET ABOVE GRADE PLANE

BUILDING AREA

SEPARATED OCCUPANCIES
OCCUPANCY GROUP S-2 (FIRST FLOOR)
TABULAR ALLOWABLE AREA FACTOR (A_t): 237,000 SF
TABULAR ALLOWABLE AREA FACTOR FOR NONSPRINKLERED BUILDING (NS): 79,000 SF
AREA FACTOR INCREASE DUE TO FRONTAGE (I_f) = [(F / P) – 0.25] (W / 30)
[(423 / 663) – 0.25] (30 / 30) = 0.39
ALLOWABLE AREA (A_a) = [A_t + (NS)(I_f)]
[237,000 + (79,000)(0.39)] = 267,810 SF
ACTUAL AREA
FIRST FLOOR: 15,616 SF
OCCUPANCY GROUP R-2 (SECOND FLOOR THROUGH FIFTH FLOOR)
TABULAR ALLOWABLE AREA FACTOR (A_t): 36,000 SF
TABULAR ALLOWABLE AREA FACTOR FOR NONSPRINKLERED BUILDING (NS): 12,000 SF
AREA FACTOR INCREASE DUE TO FRONTAGE (I_f) = [(F / P) – 0.25] (W / 30)
[(423 / 663) – 0.25] (30 / 30) = 0.39
ALLOWABLE AREA (A_a) = [A_t + (NS)(I_f)]
[36,000 + (12,000)(0.39)] = 40,680 SF PER STORY
ACTUAL AREA
SECOND FLOOR: 16,536 SF
THIRD FLOOR: 16,536 SF
FOURTH FLOOR: 16,536 SF
FIFTH FLOOR: 16,613 SF
RATIOS OF ACTUAL AREA / ALLOWABLE AREA
FIRST FLOOR: 0.06
SECOND FLOOR: 0.41
THIRD FLOOR: 0.41
FOURTH FLOOR: 0.41
FIFTH FLOOR: 0.41
SUM OF RATIOS = 1.70 (< 3)
TOTAL ACTUAL AREA: 81,837 SF

OCCUPANT LOAD

FIRST FLOOR
PARKING GARAGE: 15,616 SF / 200 GROSS SF = 79 OCCUPANTS
SECOND FLOOR
RESIDENTIAL AREAS: 16,536 SF / 200 GROSS SF = 83 OCCUPANTS
THIRD FLOOR
RESIDENTIAL AREAS: 16,536 SF / 200 GROSS SF = 83 OCCUPANTS
FOURTH FLOOR
RESIDENTIAL AREAS: 16,536 SF / 200 GROSS SF = 83 OCCUPANTS
FIFTH FLOOR
RESIDENTIAL AREAS: 16,613 SF / 200 GROSS SF = 84 OCCUPANTS

TOTAL OCCUPANT LOAD: 412 OCCUPANTS

MEANS OF EGRESS

MINIMUM NUMBER OF EXITS REQUIRED
FIRST FLOOR: 2
SECOND FLOOR: 2
THIRD FLOOR: 2
FOURTH FLOOR: 2
FIFTH FLOOR: 2
ACTUAL NUMBER OF EXITS
FIRST FLOOR: 2
SECOND FLOOR: 2
THIRD FLOOR: 2
FOURTH FLOOR: 2
FIFTH FLOOR: 2
MINIMUM EGRESS WIDTH REQUIRED
FIRST FLOOR
OTHER EGRESS COMPONENTS: (79 OCCUPANTS)(0.20) = 15.80 INCHES
SECOND FLOOR
STAIRWAYS: (83 OCCUPANTS)(0.30) = 24.90 INCHES
OTHER EGRESS COMPONENTS: (83 OCCUPANTS)(0.20) = 16.60 INCHES
THIRD FLOOR
STAIRWAYS: (83 OCCUPANTS)(0.30) = 24.90 INCHES
OTHER EGRESS COMPONENTS: (83 OCCUPANTS)(0.20) = 16.60 INCHES
FOURTH FLOOR
STAIRWAYS: (83 OCCUPANTS)(0.30) = 24.90 INCHES
OTHER EGRESS COMPONENTS: (83 OCCUPANTS)(0.20) = 16.60 INCHES
FIFTH FLOOR
STAIRWAYS: (84 OCCUPANTS)(0.30) = 25.20 INCHES
OTHER EGRESS COMPONENTS: (84 OCCUPANTS)(0.20) = 16.80 INCHES
ACTUAL EGRESS WIDTH
FIRST FLOOR
OTHER EGRESS COMPONENTS: 132 INCHES (4 EXTERIOR EXIT DOORS)
SECOND FLOOR
STAIRWAYS: 108 INCHES (2 INTERIOR EXIT STAIRWAYS)
OTHER EGRESS COMPONENTS: 66 INCHES (2 EXIT DOORS)
THIRD FLOOR
STAIRWAYS: 108 INCHES (2 INTERIOR EXIT STAIRWAYS)
OTHER EGRESS COMPONENTS: 66 INCHES (2 EXIT DOORS)
FOURTH FLOOR
STAIRWAYS: 108 INCHES (2 INTERIOR EXIT STAIRWAYS)
OTHER EGRESS COMPONENTS: 66 INCHES (2 EXIT DOORS)
FIFTH FLOOR
STAIRWAYS: 108 INCHES (2 INTERIOR EXIT STAIRWAYS)
OTHER EGRESS COMPONENTS: 66 INCHES (2 EXIT DOORS)
COMMON PATH OF EGRESS TRAVEL
GROUP R-2: 125 FEET MAXIMUM
GROUP S-2: 100 FEET MAXIMUM
EXIT ACCESS TRAVEL DISTANCE
GROUP R-2: 250 FEET MAXIMUM
GROUP S-2: 400 FEET MAXIMUM
ELEVATOR CAR TO ACCOMMODATE AMBULANCE STRETCHER 24 INCHES BY 84 INCHES

PLUMBING FIXTURES REQUIRED

1 WATER CLOSET PER DWELLING UNIT
1 LAVATORY PER DWELLING UNIT
1 BATHTUB OR SHOWER PER DWELLING UNIT
1 KITCHEN SINK PER DWELLING UNIT
72 UNITS / 20 = 3.60 (4) AUTOMATIC CLOTHES WASHER CONNECTIONS

PLUMBING FIXTURES PROVIDED

1 WATER CLOSET PER DWELLING UNIT, MINIMUM
1 LAVATORY PER DWELLING UNIT, MINIMUM
1 BATHTUB OR SHOWER PER DWELLING UNIT, MINIMUM
1 KITCHEN SINK PER DWELLING UNIT
1 AUTOMATIC CLOTHES WASHER CONNECTION PER DWELLING UNIT

CODE DATA PLAN KEY

- EXIT
- ELEVATOR
- FIRE EXTINGUISHER
- FIRE EXTINGUISHER CABINET
- 1-HOUR ASSEMBLY, REFER TO CODE DATA PLAN
- 2-HOUR ASSEMBLY, REFER TO CODE DATA PLAN
- FRONTAGE DISTANCE
- KB — KNOX BOX
- FIRE DEPARTMENT CONNECTION
- SIGHT/HEARING IMPAIRED UNIT

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. SUCH IDENTIFICATION SHALL:

1. BE LOCATED IN ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILING OR ATTIC SPACES
2. 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, AND
3. INCLUDE LETTERING NOT LESS THAN 3 INCHES 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 SIMILAR WORDING.

FIRE SUPPRESSION NOTES

(NEW SPRINKLER SYSTEM)

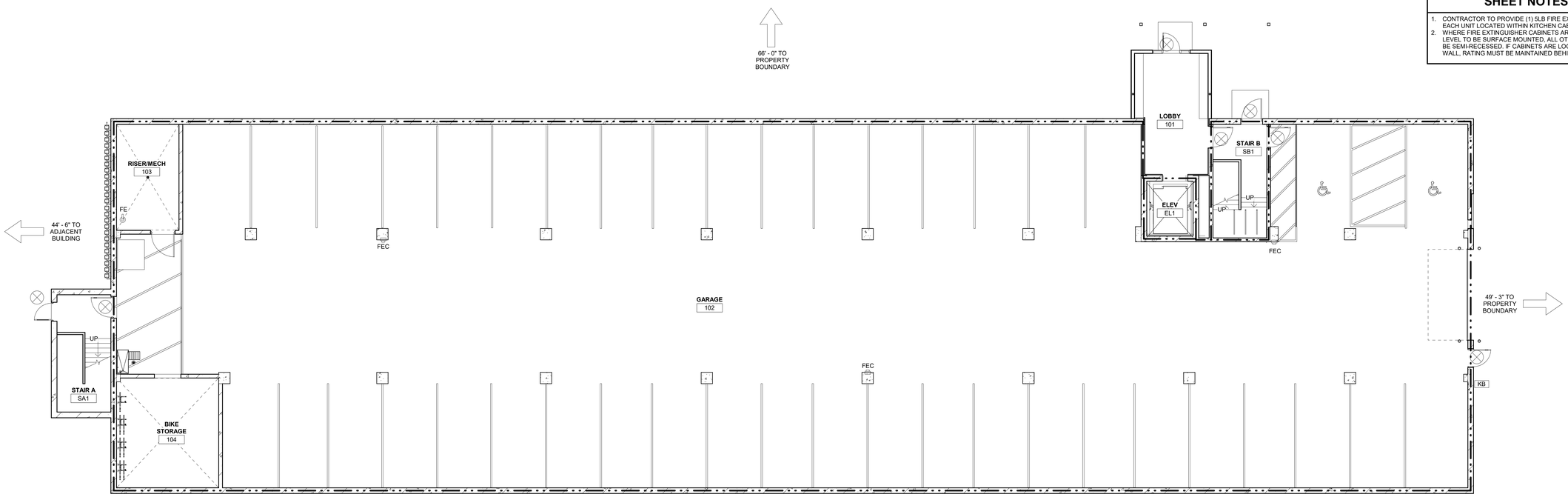
THROUGHOUT AREA OF WORK, PROVIDE A NEW NFPA 13 FIRE SUPPRESSION (SPRINKLER) SYSTEM. THE LICENSED AUTOMATIC SPRINKLER SYSTEM DESIGNER / INSTALLER SHALL FIELD VERIFY ALL CONDITIONS PRIOR TO BID. THE NFPA 13 SPRINKLER SYSTEM SHALL BE DESIGNED, INSTALLED, AND TESTED BY A LICENSED AUTOMATIC SPRINKLER SYSTEM DESIGNER / INSTALLER AND SHALL MEET ALL APPLICABLE CODE REQUIREMENTS. THE LICENSED AUTOMATIC SPRINKLER SYSTEM DESIGNER SHALL PROVIDE AUTOMATIC SPRINKLER SYSTEM DESIGN DOCUMENTS AND SHALL SUBMIT THEM TO ALL APPLICABLE JURISDICTIONS AND AUTHORITIES AND SHALL PROCURE ALL NECESSARY PERMITS. SPRINKLER DESIGNER / INSTALLER SHALL PAY ALL NECESSARY PERMITTING FEES.

DESIGN OF NEW NFPA 13 SPRINKLER SYSTEM SHALL BE BASED ON, BUT NOT LIMITED TO THE FOLLOWING CRITERIA:

1. COMPLY WITH NFPA 13 AND ALL OTHER APPLICABLE CODES.
2. DESIGN SPRINKLER HEAD LAYOUT TO PROVIDE ADEQUATE COVERAGE PER CODE REQUIREMENTS.
3. DESIGN SPRINKLER HEAD AND PIPING LAYOUT INCLUDING ALL DROPS, ARM-OVERS AND MAIN PIPES TO AVOID DIFFUSERS, LIGHT FIXTURES, MECHANICAL WORK, PLUMBING WORK, ELECTRICAL WORK, NEW CONSTRUCTION WORK AND ALL OTHER WORK AND COMPONENTS IN THE CONTRACT.
4. PROVIDE PROPER COVERAGE IN CONCEALED SPACES AS REQUIRED PER CODE.
5. ALL SPRINKLER PIPING AND COMPONENTS SHALL BE CONCEALED ABOVE CEILINGS AND WITHIN WALLS.
6. ALL SPRINKLER HEADS TO BE INSTALLED IN ACOUSTICAL CEILING TILE SHALL BE INSTALLED IN CENTER OF TILE.

SHEET NOTES

1. CONTRACTOR TO PROVIDE (1) 5LB FIRE EXTINGUISHER IN EACH UNIT LOCATED WITHIN KITCHEN CABINET.
2. WHERE FIRE EXTINGUISHER CABINETS ARE NOTED, LOWER LEVEL TO BE SURFACE MOUNTED, ALL OTHER LEVELS TO BE SEMI-RECESSED. IF CABINETS ARE LOCATED IN A RATED WALL, RATING MUST BE MAINTAINED BEHIND CABINET.



1 GROUND LEVEL CODE DATA PLAN
1/8" = 1'-0"

REFERENCE SCALE
1" = 1'
0 1/4" 1/2" 1" 2"

N

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PROJECT

5TH WARD RESIDENCES

72 UNIT APARTMENT BUILDING

LA CROSSE WISCONSIN

REVISION SCHEDULE

DATE	DESCRIPTION	BY

PROJECT NO.	20-24403
FILE NAME	24403 Apartments Arch- R20.rvt
DRAWN BY	KAP
DESIGNED BY	KMB
REVIEWED BY	KMB
ORIGINAL ISSUE DATE	09/15/2021
CLIENT PROJECT NO.	

TITLE

CODE DATA AND GROUND LEVEL CODE DATA PLAN

SHEET

G1-20

SHEET NOTES

1. CONTRACTOR TO PROVIDE (1) 5LB FIRE EXTINGUISHER IN EACH UNIT LOCATED WITHIN KITCHEN CABINET.
2. WHERE FIRE EXTINGUISHER CABINETS ARE NOTED, LOWER LEVEL TO BE SURFACE MOUNTED. ALL OTHER LEVELS TO BE SEMI-RECESSED. IF CABINETS ARE LOCATED IN A RATED WALL, RATING MUST BE MAINTAINED BEHIND CABINET.

1 SECOND FLOOR CODE DATA PLAN
1/8" = 1'-0"

2 THIRD FLOOR CODE DATA PLAN
1/8" = 1'-0"

REFERENCE SCALE
1" = 1'-0"
0 1/4" 1/2" 1" 2"

N

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PROJECT

5TH WARD RESIDENCES

72 UNIT APARTMENT BUILDING

LA CROSSE WISCONSIN

REVISION SCHEDULE

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CLIENT PROJECT NO.	

TITLE

SECOND AND THIRD FLOOR CODE DATA PLANS

SHEET

G1-21

SHEET NOTES

1. CONTRACTOR TO PROVIDE (1) 5LB FIRE EXTINGUISHER IN EACH UNIT LOCATED WITHIN KITCHEN CABINET.
2. WHERE FIRE EXTINGUISHER CABINETS ARE NOTED, LOWER LEVEL TO BE SURFACE MOUNTED. ALL OTHER LEVELS TO BE SEMI-RECESSED. IF CABINETS ARE LOCATED IN A RATED WALL, RATING MUST BE MAINTAINED BEHIND CABINET.

1 FOURTH FLOOR CODE DATA PLAN
1/8" = 1'-0"

2 FIFTH FLOOR CODE DATA PLAN
1/8" = 1'-0"

REFERENCE SCALE
1" = 1'-0"
0 1/4" 1/2" 1" 2"

N

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PROJECT

5TH WARD RESIDENCES

72 UNIT APARTMENT BUILDING

LA CROSSE WISCONSIN

REVISION SCHEDULE

DATE	DESCRIPTION	BY

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FILE NAME	24403 Apartments Arch- R20.rvt
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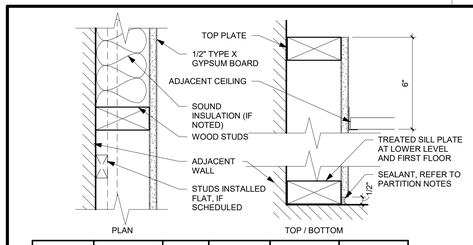
DESIGNED BY	KMB
REVIEWED BY	KMB
ORIGINAL ISSUE DATE	09/15/2021
CLIENT PROJECT NO.	

TITLE

FOURTH AND FIFTH FLOOR CODE DATA PLANS

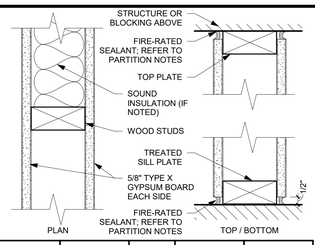
SHEET

G1-22



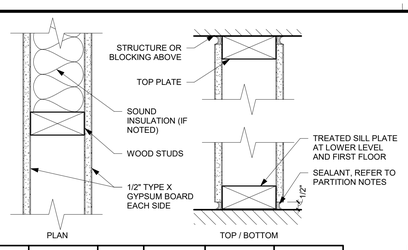
WALL TYPE	STUD DESIGNATION	SPACING			KEY NOTES
B1	1x2 (FLAT)	16"			
B2	2x2	16"			
B4	2x4	16"			
B6	2x6	16"			
B8	2x8	16"			

1 WALL TYPE B (WOOD STUD FURRING)
NOT TO SCALE



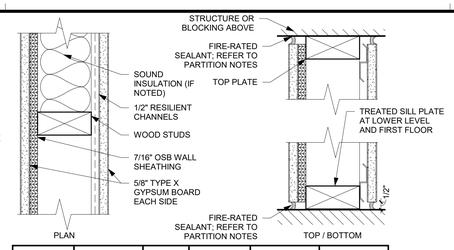
WALL TYPE	STUD DESIGNATION	SPACING	FIRE RATING / UL DESIGN	KEY NOTES
D2	2x2	16"	U309	1, 2
D4	2x4	16"	U309	1, 2
D6	2x6	16"	U309	1, 2
D8	2x8	16"	U309	1, 2

2 WALL TYPE D (WOOD STUD - 1-HOUR FIRE RATED)
3" = 1'-0"



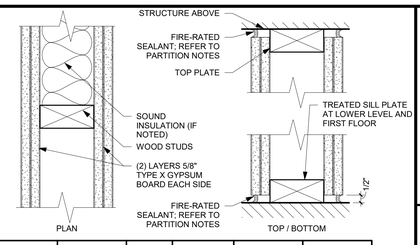
WALL TYPE	STUD DESIGNATION	SPACING			KEY NOTES
E2	2x2	16"			
E4	2x4	16"			
E6	2x6	16"			
E8	2x8	16"			

3 WALL TYPE E (WOOD STUD PARTITION)
NOT TO SCALE



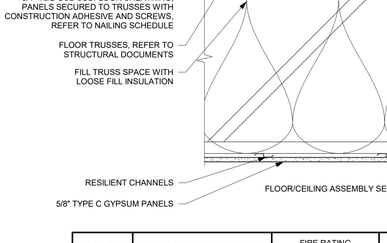
WALL TYPE	STUD DESIGNATION	SPACING		FIRE RATING / UL DESIGN	KEY NOTES
G2	2x2	16"		U311	1, 2, 8, 9
G4	2x4	16"		U311	1, 2, 8, 9
G6	2x6	16"		U311	1, 2, 8, 9
G8	2x8	16"		U311	1, 2, 8, 9

4 WALL TYPE G (WOOD STUD - 1-HOUR FIRE RATED, 50 TO 54 STC SOUND)
NOT TO SCALE



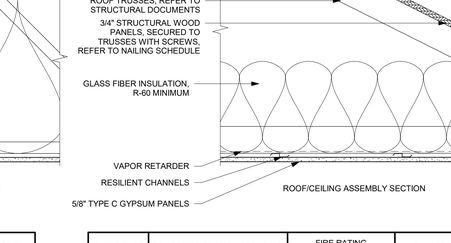
WALL TYPE	STUD DESIGNATION	SPACING		FIRE RATING / UL DESIGN	KEY NOTES
H2	2x2	16"		U301	1
H4	2x4	16"		U301	1
H6	2x6	16"		U301	1
H8	2x8	16"		U301	1

5 WALL TYPE H (WOOD STUD - 2-HOUR FIRE RATED)
NOT TO SCALE



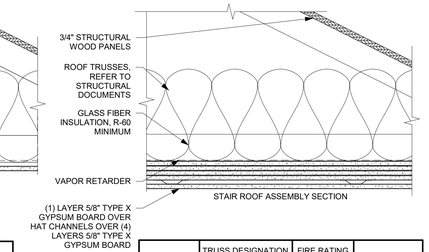
WALL TYPE	STUD DESIGNATION	SPACING		FIRE RATING / UL DESIGN	KEY NOTES
K4	2x4	16"		U311	1, 2, 8, 9
K6	2x6	16"		U311	1, 2, 8, 9

6 WALL TYPE K (WOOD STUD - 2-HOUR FIRE RATED)
3" = 1'-0"



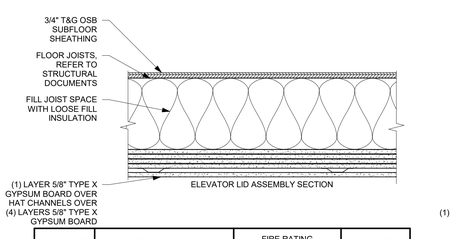
WALL TYPE	STUD DESIGNATION	SPACING		FIRE RATING / UL DESIGN	KEY NOTES
J4	2x4	16"		U311	1, 2, 8, 9
J6	2x6	16"		U311	1, 2, 8, 9

7 WALL TYPE J (WOOD STUD - 1-HOUR FIRE RATED, 50 TO 54 STC SOUND)
3" = 1'-0"



WALL TYPE	BLOCK SIZE (NOMINAL WIDTH AND HEIGHT)	CALCULATED FIRE RATING	REINFORCING	COMMENTS
M4	4x8		#5 BARS @ 40" OC VERTICAL	
M6	6x8		#5 BARS @ 40" OC VERTICAL	
M8	8x8		#5 BARS @ 40" OC VERTICAL	
M10	10x8		#5 BARS @ 40" OC VERTICAL	
M12	12x8		#5 BARS @ 40" OC VERTICAL	

8 WALL TYPE M (EXTERIOR NON-RATED MASONRY)
1 1/2" = 1'-0"



WALL TYPE	BLOCK SIZE (NOMINAL WIDTH AND HEIGHT)	CALCULATED FIRE RATING	REINFORCING	KEY NOTES
N6	6x8	1 HOUR	#5 BARS @ 40" OC VERTICAL	3
N8	8x8	1 HOUR	#5 BARS @ 40" OC VERTICAL	3
N8S	8x8	2 HOUR	#5 BARS @ 40" OC VERTICAL	3, 4
N10	10x8	2 HOUR	#5 BARS @ 40" OC VERTICAL	3
N12	12x8	2 HOUR	#5 BARS @ 40" OC VERTICAL	3
N16	16x8	2 HOUR	#5 BARS @ 40" OC VERTICAL	3

9 WALL TYPE N (INTERIOR FIRE-RATED MASONRY)
NOT TO SCALE

INTERIOR PARTITION KEY NOTES:

NOT ALL KEY NOTES APPLY TO PROJECT. VERIFY WITH SPECIFIC WALL TYPE.

1. INCLUDE FIBERGLASS SOUND INSULATION.
2. PROVIDE FIRE-RATED SEALANT AT WALL BASE, TOP AND AROUND ALL PENETRATIONS.
3. REFER TO IBC CHAPTER 7, TABLE "MINIMUM EQUIVALENT THICKNESS OF BEARING OR NONBEARING CONCRETE MASONRY WALLS" FOR CALCULATED FIRE-RESISTANCE RATING.
4. SPECIAL 8" BLOCK WITH 1.75" MIN. FACE SHELL THICKNESS.
5. REFER TO MANUFACTURER'S SPECIFICATIONS FOR STANDARD CONNECTION DETAILS, SPECIFIC R-VALUE AND ADDITIONAL INFORMATION.
6. REFER TO SPECIFICATIONS FOR SPECIFIC WALL PANEL FACE FINISH AND PROFILE.
7. INCLUDE ACOUSTIC SEALANT AT WALL BASE AND TOP TERMINATION, BOTH SIDES OF WALL.
8. PLACE RESILIENT CHANNELS ON CORRIDOR SIDE WHERE APPLICABLE.
9. PLACE OSB ON SIDE BEHIND KITCHEN CABINETRY WHERE POSSIBLE.

GENERAL INTERIOR PARTITION NOTES:

1. NOT ALL WALL TYPES LISTED APPLY TO THIS PROJECT. REFER TO FLOOR PLAN FOR LOCATIONS AND ADDITIONAL NOTES.
2. LIGHT GAUGE STEEL FRAMING MEMBER DESIGNATION SYSTEM: (REFER TO STRUCTURAL NOTES)

   600S125-54 (EQUIVALENT TO 6" x 16 GAUGE STUD OR JOIST WITH 1 1/4" FLANGES)

   - MINIMUM BASE METAL THICKNESS IN MILS. EXAMPLE - .054 = 54 MILS)
     18 = 25 GAUGE; 27 = 22 GAUGE; 30 = 20 GAUGE (DRYWALL); 33 = 20 GAUGE (STRUCTURAL); 43 = 18 GAUGE; 54 = 16 GAUGE; 68 = 14 GAUGE; 97 = 12 GAUGE
   - FLANGE WIDTH (1/100 INCHES): EXAMPLE - 125 = 1.25"
   - STYLE: S = STUD OR JOIST SECTION (WITH FLANGE STIFFENERS) = ⌈⌋; T = TRACK SECTION = ⌴; U = CHANNEL SECTION (STUDS WITHOUT FLANGE STIFFENERS) = ⌈; F = FURRING CHANNEL = ⩓; Z = ZEE SECTION = ⌐
   - MEMBER DEPTH (1/100 INCHES): EXAMPLE - 600 = 6"

3. IN ALL WET AREAS SUCH AS SHOWERS AND TUBS, INSTALL CEMENT-BASED BACKER BEHIND AREAS SCHEDULED TO RECEIVE TILE FINISH.
4. ON ALL RESTROOM WALLS AND OTHER AREAS SCHEDULED TO RECEIVE FRP OR TILE FINISH, PROVIDE A MINIMUM OF MOISTURE-RESISTANT GYPSUM BOARD.
5. ALL PARTITIONS CONTAINING PLUMBING OR HAVING AN EXTERIOR FACE SHALL BE INSULATED.
6. WHERE GYPSUM BOARD EXTENDS TO UNDERSIDE OF STRUCTURE ABOVE, STOP GYPSUM BOARD 1/2" BELOW LINE OF STRUCTURE AND SEAL AS REQUIRED. SEALANT NOT REQUIRED AT SIMILAR MATERIAL TRANSITIONS.
7. REFERENCE FLOOR FINISH PLANS AND WALL FINISH PLANS FOR ADDITIONAL FINISHES NOT INDICATED ON PARTITION TYPES.
8. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS OF WALL PENETRATIONS. SEAL ALL OPENINGS WITH ACOUSTICAL SEALANT.
9. PROVIDE FIRE-TREATED WOOD OR STEEL BACKING FOR ALL WALL-MOUNTED FINISH CARPENTRY, ARCHITECTURAL WOODWORK, TOILET PARTITIONS, ACCESSORIES AND OTHER SIMILAR ITEMS.
10. USE PRESSURE TREATED WOOD FOR LOCATIONS IN CONTACT WITH CONCRETE OR MASONRY.
11. SEALANT NOT REQUIRED AT LOCATIONS OF SIMILAR MATERIALS.

FIRE-RATED PARTITION NOTES:

1. ALL PARTITIONS NOTED TO BE FIRE-RESISTANCE RATED SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE REFERENCED FIRE RESISTANCE TEST.
2. FIRE-RATED PARTITIONS SHALL BE CONSTRUCTED BEFORE NON-RATED PARTITIONS.
3. ALL FIRE-RATED PARTITIONS TO EXTEND FROM TOP OF UNFINISHED FLOOR TO UNDERSIDE OF STRUCTURE ABOVE. SEAL TOP, BOTTOM AND ALL PENETRATIONS WITH FIRE-RATED SEALANT.
4. ALL PENETRATIONS IN FIRE-RATED PARTITIONS SHALL BE SEALED WITH MATERIALS, SEALANTS AND/OR ASSEMBLIES WHICH MAINTAIN THE FIRE-RESISTANCE RATING OF THE PARTITION.

FLOOR TYPE	TRUSS DESIGNATION / SPACING	FIRE RATING / UL DESIGN	KEYNOTES
F4	REFER TO FRAMING PLANS	UL L550 SYSTEM 5	--

14 FLOOR/CEILING ASSEMBLY UL L550 (WOOD TRUSS - 1 HOUR FIRE RATED)
NOT TO SCALE

FLOOR TYPE	TRUSS DESIGNATION / SPACING	FIRE RATING / UL DESIGN	KEYNOTES
R1	REFER TO FRAMING PLANS	UL P533	--

15 ROOF/CEILING ASSEMBLY UL P533 (WOOD TRUSS - 1 HOUR FIRE RATED)
NOT TO SCALE

FLOOR TYPE			KEYNOTES
F1			--

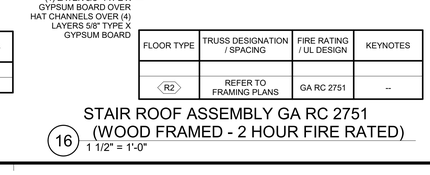
11 FLOOR/CEILING ASSEMBLY (SLAB ON GRADE)
1 1/2" = 1'-0"

FLOOR TYPE	PLANK DESIGNATION / SPACING	FIRE RATING / UL DESIGN	KEYNOTES
F2	REFER TO FRAMING PLANS	2 HOUR	--

12 FLOOR/CEILING ASSEMBLY (PRECAST - 1 HOUR FIRE RATED)
1 1/2" = 1'-0"

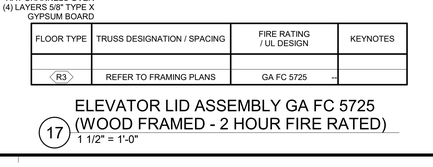
FLOOR TYPE	TRUSS DESIGNATION / SPACING	FIRE RATING / UL DESIGN	KEYNOTES
F3	REFER TO FRAMING PLANS	UL L569 SYSTEM 2	--

13 FLOOR/CEILING ASSEMBLY UL L569 (WOOD FRAMED - 1 HOUR FIRE RATED)
NOT TO SCALE



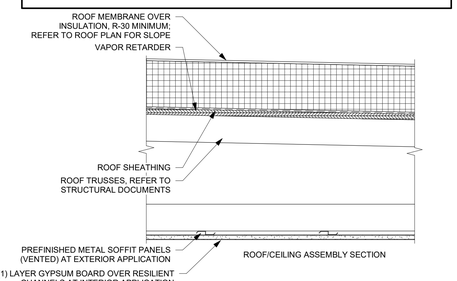
FLOOR TYPE	TRUSS DESIGNATION / SPACING	FIRE RATING / UL DESIGN	KEYNOTES
R2	REFER TO FRAMING PLANS	GA RC 2751	--

16 STAIR ROOF ASSEMBLY GA RC 2751 (WOOD FRAMED - 2 HOUR FIRE RATED)
1 1/2" = 1'-0"



FLOOR TYPE	TRUSS DESIGNATION / SPACING	FIRE RATING / UL DESIGN	KEYNOTES
R3	REFER TO FRAMING PLANS	GA FC 5725	--

17 ELEVATOR LID ASSEMBLY GA FC 5725 (WOOD FRAMED - 2 HOUR FIRE RATED)
1 1/2" = 1'-0"



ROOF TYPE	TRUSS DESIGNATION / SPACING	FIRE RATING / UL DESIGN	KEYNOTES
R4	REFER TO FRAMING PLANS	1 HOUR - UL P533	--

18 ROOF/CEILING ASSEMBLY (WOOD TRUSS - FIRE RATED)
1 1/2" = 1'-0"

REFERENCE SCALE
1" = 1'
2"
1"
0 1/4" 1/2"

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PROJECT

5TH WARD RESIDENCES

72 UNIT APARTMENT BUILDING

LA CROSSE WISCONSIN

REVISION SCHEDULE

DATE	DESCRIPTION	BY

PROJECT NO.	20-24403
FILE NAME	24403 Apartments Arch- R20.rvt
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ORIGINAL ISSUE DATE	09/15/2021
CLIENT PROJECT NO.	

TITLE

WALL AND ASSEMBLY TYPES, PARTITION NOTES

SHEET

A1-01

KEYNOTE LEGEND

2	MECHANICAL LOUVER, REFER TO HVAC DOCUMENTS
3	WALL MOUNTED BIKE STORAGE BY OWNER
4	COMPACT CAR PARKING STALL
15	BOLLARD, TYP
38	PAVEMENT STRIPING, TYP
50	DOG WASH STATION WITH DRYER
51	FIRE ALARM AND ELECTRICAL PANEL
52	WATER SERVICE ENTRANCE
53	FIRE SUPPRESSION

BUILDING AREAS

UNIT NAME	# OF INSTANCES	AREA
STUDIO TYPE A	1	498 SF
STUDIO	13	498 SF
1 BEDROOM TYPE A	1	731 SF
1 BEDROOM 1	8	790 SF
1 BEDROOM 2	12	790 SF
1 BEDROOM 3	3	611 SF
1 BEDROOM 4	4	785 SF
1 BEDROOM CORNER	3	781 SF
1 BEDROOM CORNER 2	1	806 SF
2 BEDROOM	8	1074 SF
2 BEDROOM CORNER	11	1069 SF
2 BEDROOM CORNER 2	1	1093 SF

LEVEL	AREA
4TH FLOOR	16340 SF
3RD FLOOR	16290 SF
2ND FLOOR	16290 SF
1ST FLOOR	16244 SF
LOWER LEVEL	15661 SF
TOTAL	80825 SF

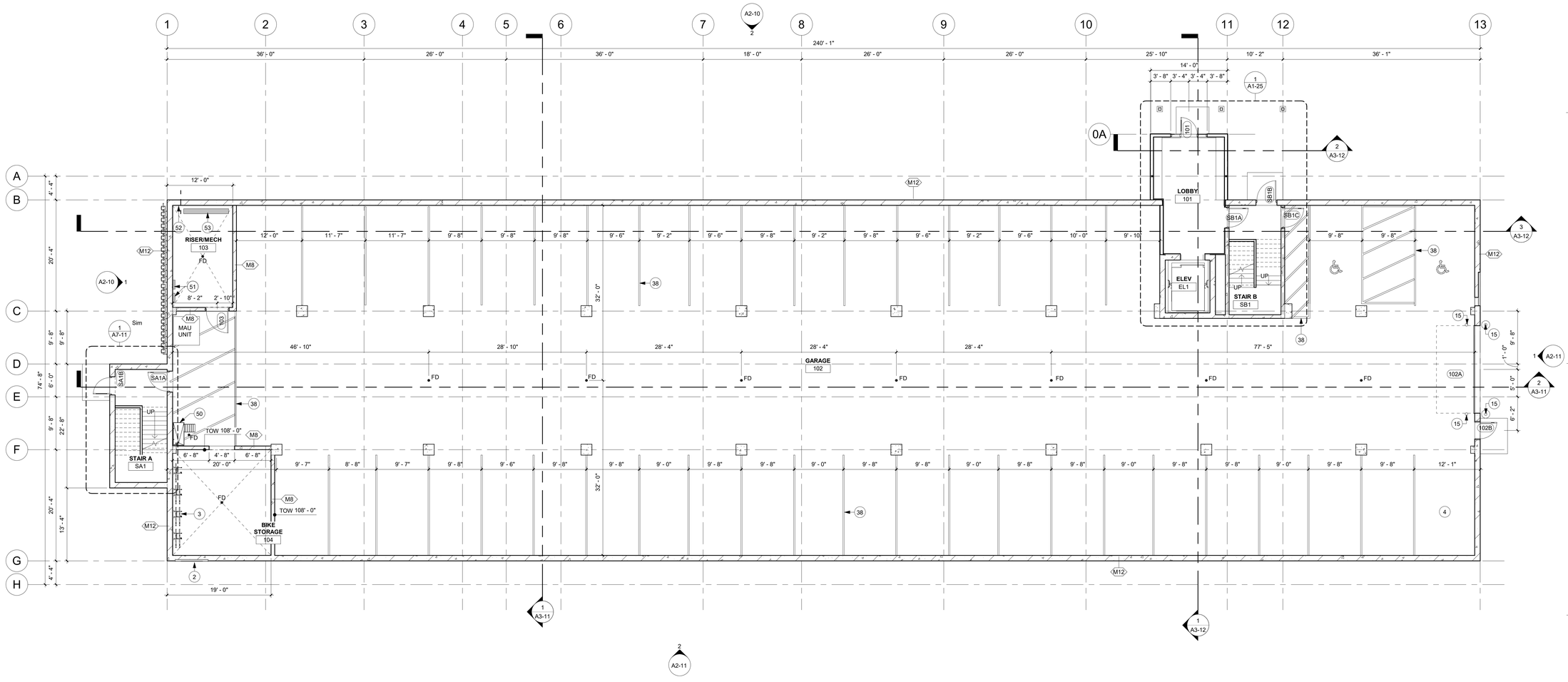
SHEET NOTES

1. DIMENSIONS ARE FROM FACE OF MASONRY/CONCRETE, FACE OF EXTERIOR WALL STUD, AND CENTER OF INTERIOR WALL STUD, UNLESS NOTED OTHERWISE.
2. ALL UNITS ARE TYPE B, UNLESS NOTED OTHERWISE.
3. HOUSEKEEPING AND EQUIPMENT PADS BY GENERAL CONTRACTOR. COORDINATE WITH FIRE PROTECTION, PLUMBING, HVAC, AND ELECTRICAL CONTRACTORS.
4. IDENTIFY WITH PAINTED LETTERING 'FIRE WALL' AND 'FIRE BARRIER WALL' ABOVE CEILING 20' - 0" OC MAX, BOTH SIDES OF WALL. REFER TO CODE DATA PLANS FOR LOCATIONS OF RATED WALLS.
5. PREROCK ALL RATED WALLS PRIOR TO INSTALLING ANY ADJACENT WALLS OR FIXTURES. INSTALL SECOND LAYER OF ROCK TO CONCEAL SHOWER/TUB NAILING FLANGES AS NECESSARY.
6. ALL UNITS TO BE TYPE B UNLESS NOTED OTHERWISE.
7. VERIFY ALL FRAMING DIMENSIONS W/ TUB/SHOWER ROUGH OPENING REQUIREMENTS PRIOR TO PANELIZING WALL SYSTEMS.
8. COORDINATE FLOOR DRAIN LOCATIONS WITH MECHANICAL/PLUMBING CONTRACTOR AND TRUSS SUPPLIER.

UNIT MATRIX

	STUDIO	1 BEDROOM	2 BEDROOM	TOTAL	SQUARE FOOTAGE
5TH FLOOR	6	7	5	18	17,102 SQ. FT.
4TH FLOOR	6	7	5	18	17,017 SQ. FT.
3RD FLOOR	6	7	5	18	17,017 SQ. FT.
2ND FLOOR	6	7	5	18	17,017 SQ. FT.
GROUND/PARKING	-	-	-	-	16,175 SQ. FT.
TOTAL	24	28	20	72	84,328 SQ. FT.

LOWER LEVEL PARKING: 42 STALLS



1 GROUND/PARKING FLOOR PLAN
1/8" = 1'-0"

REFERENCE SCALE
1" = 1'
0 1/4" 1/2" 1" 2"

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ISG

PROJECT

5TH WARD RESIDENCES

72 UNIT APARTMENT BUILDING

LA CROSSE WISCONSIN

REVISION SCHEDULE

DATE	DESCRIPTION	BY

PROJECT NO.	20-24403
FILE NAME	24403 Apartments Arch- R20.rvt
DRAWN BY	KAP
DESIGNED BY	KMB
REVIEWED BY	KMB
ORIGINAL ISSUE DATE	09/15/2021
CLIENT PROJECT NO.	

TITLE

GROUND LEVEL FLOOR PLAN

SHEET

A1-20

KEYNOTE LEGEND

47	TEMPERED GLASS THIS WINDOW

BUILDING AREAS

UNIT NAME	# OF INSTANCES	AREA
STUDIO TYPE A	1	498 SF
STUDIO	13	498 SF
1 BEDROOM TYPE A	1	731 SF
1 BEDROOM 1	8	790 SF
1 BEDROOM 2	12	790 SF
1 BEDROOM 3	3	611 SF
1 BEDROOM 4	4	785 SF
1 BEDROOM CORNER	3	781 SF
1 BEDROOM CORNER 2	1	806 SF
2 BEDROOM	8	1074 SF
2 BEDROOM CORNER	11	1069 SF
2 BEDROOM CORNER 2	1	1093 SF

LEVEL	AREA
4TH FLOOR	16340 SF
3RD FLOOR	16290 SF
2ND FLOOR	16290 SF
1ST FLOOR	16244 SF
LOWER LEVEL	15661 SF
TOTAL	80825 SF

SHEET NOTES

1. DIMENSIONS ARE FROM FACE OF MASONRY/CONCRETE, FACE OF EXTERIOR WALL STUD, AND CENTER OF INTERIOR WALL STUD, UNLESS NOTED OTHERWISE.
2. ALL UNITS ARE TYPE B, UNLESS NOTED OTHERWISE.
3. HOUSEKEEPING AND EQUIPMENT PADS BY GENERAL CONTRACTOR. COORDINATE WITH FIRE PROTECTION, PLUMBING, HVAC, AND ELECTRICAL CONTRACTORS.
4. IDENTIFY WITH PAINTED LETTERING 'FIRE WALL' AND 'FIRE BARRIER WALL' ABOVE CEILING 20' - 0" OC MAX, BOTH SIDES OF WALL. REFER TO CODE DATA PLANS FOR LOCATIONS OF RATED WALLS.
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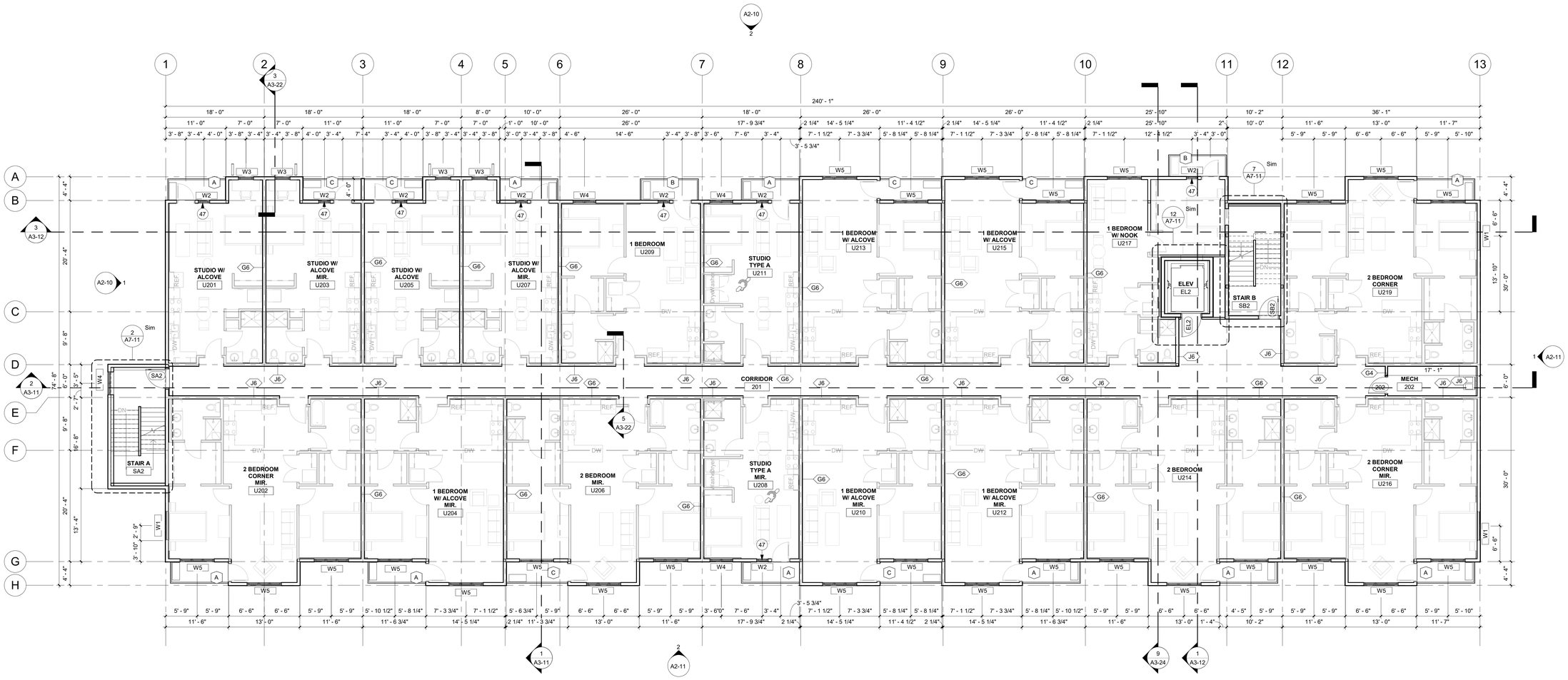
6. ALL UNITS TO BE TYPE B UNLESS NOTED OTHERWISE.
7. VERIFY ALL FRAMING DIMENSIONS W/ TUB/SHOWER ROUGH OPENING REQUIREMENTS PRIOR TO PANELIZING WALL SYSTEMS.
8. COORDINATE FLOOR DRAIN LOCATIONS WITH MECHANICAL/PLUMBING CONTRACTOR AND TRUSS SUPPLIER.

UNIT MATRIX

	STUDIO	1 BEDROOM	2 BEDROOM	TOTAL	SQUARE FOOTAGE
5TH FLOOR	6	7	5	18	17,102 SQ. FT.
4TH FLOOR	6	7	5	18	17,017 SQ. FT.
3RD FLOOR	6	7	5	18	17,017 SQ. FT.
2ND FLOOR	6	7	5	18	17,017 SQ. FT.
GROUND/PARKING	-	-	-	-	16,175 SQ. FT.
TOTAL	24	28	20	72	84,328 SQ. FT.

LOWER LEVEL PARKING: 42 STALLS



1 SECOND FLOOR PLAN
1/8" = 1'-0"

REFERENCE SCALE
1" = 1'
0 1/4" 1/2" 1" 2"

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PROJECT

5TH WARD RESIDENCES

72 UNIT APARTMENT BUILDING

LA CROSSE WISCONSIN

REVISION SCHEDULE

DATE	DESCRIPTION	BY

PROJECT NO.	20-24403
FILE NAME	24403 Apartments Arch- R20.rvt
DRAWN BY	KAP
DESIGNED BY	KMB
REVIEWED BY	KMB
ORIGINAL ISSUE DATE	09/15/2021
CLIENT PROJECT NO.	

TITLE

SECOND FLOOR PLAN

SHEET

A1-21

KEYNOTE LEGEND

39	CANOPY, TYP
47	TEMPERED GLASS THIS WINDOW

BUILDING AREAS

UNIT NAME	# OF INSTANCES	AREA
STUDIO TYPE A	1	498 SF
STUDIO	13	498 SF
1 BEDROOM TYPE A	1	731 SF
1 BEDROOM 1	8	790 SF
1 BEDROOM 2	12	790 SF
1 BEDROOM 3	3	611 SF
1 BEDROOM 4	4	785 SF
1 BEDROOM CORNER	3	781 SF
1 BEDROOM CORNER 2	1	806 SF
2 BEDROOM	8	1074 SF
2 BEDROOM CORNER	11	1069 SF
2 BEDROOM CORNER 2	1	1093 SF

LEVEL	AREA
4TH FLOOR	16340 SF
3RD FLOOR	16290 SF
2ND FLOOR	16290 SF
1ST FLOOR	16244 SF
LOWER LEVEL	15661 SF
TOTAL	80825 SF

SHEET NOTES

1. DIMENSIONS ARE FROM FACE OF MASONRY/CONCRETE, FACE OF EXTERIOR WALL STUD, AND CENTER OF INTERIOR WALL STUD, UNLESS NOTED OTHERWISE.
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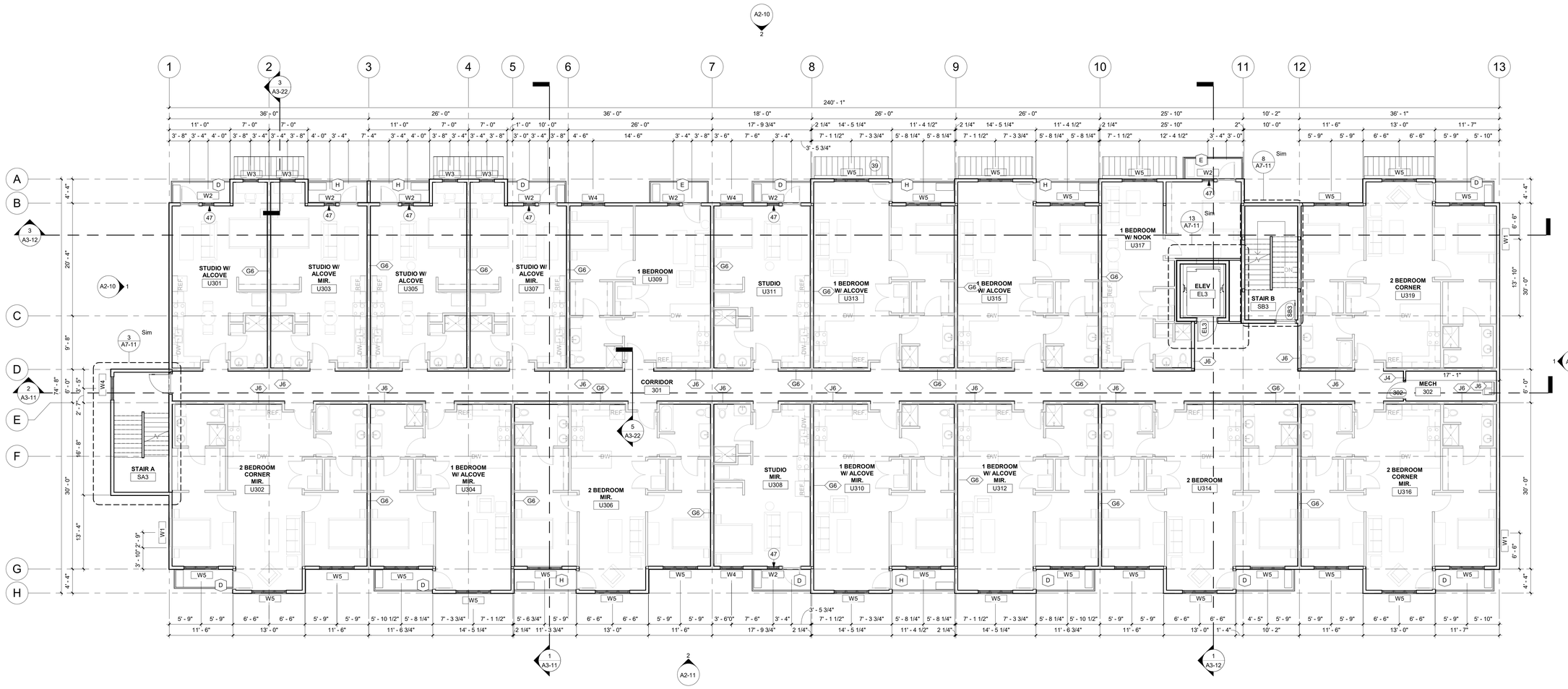
8. COORDINATE FLOOR DRAIN LOCATIONS WITH MECHANICAL/PLUMBING CONTRACTOR AND TRUSS SUPPLIER.

UNIT MATRIX

	STUDIO	1 BEDROOM	2 BEDROOM	TOTAL	SQUARE FOOTAGE
5TH FLOOR	6	7	5	18	17,102 SQ. FT.
4TH FLOOR	6	7	5	18	17,017 SQ. FT.
3RD FLOOR	6	7	5	18	17,017 SQ. FT
2ND FLOOR	6	7	5	18	17,017 SQ. FT.
GROUND/PARKING	-	-	-	-	16,175 SQ. FT.
TOTAL	24	28	20	72	84,328 SQ. FT.

LOWER LEVEL PARKING: 42 STALLS



1 THIRD FLOOR PLAN
1/8" = 1'-0"

REFERENCE SCALE
1" = 1'
0 1/4" 1/2" 1" 2"

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PROJECT

5TH WARD RESIDENCES

72 UNIT APARTMENT BUILDING

LA CROSSE WISCONSIN

REVISION SCHEDULE

DATE	DESCRIPTION	BY

PROJECT NO.	20-24403
FILE NAME	24403 Apartments Arch- R20.rvt
DRAWN BY	KAP
DESIGNED BY	KMB
REVIEWED BY	KMB
ORIGINAL ISSUE DATE	09/15/2021
CLIENT PROJECT NO.	

TITLE

THIRD FLOOR PLAN

SHEET

A1-22

KEYNOTE LEGEND

47	TEMPERED GLASS THIS WINDOW

BUILDING AREAS

UNIT NAME	# OF INSTANCES	AREA
STUDIO TYPE A	1	498 SF
STUDIO	13	498 SF
1 BEDROOM TYPE A	1	731 SF
1 BEDROOM 1	8	790 SF
1 BEDROOM 2	12	790 SF
1 BEDROOM 3	3	611 SF
1 BEDROOM 4	4	785 SF
1 BEDROOM CORNER	3	781 SF
1 BEDROOM CORNER 2	1	806 SF
2 BEDROOM	8	1074 SF
2 BEDROOM CORNER	11	1069 SF
2 BEDROOM CORNER 2	1	1093 SF

LEVEL	AREA
4TH FLOOR	16340 SF
3RD FLOOR	16290 SF
2ND FLOOR	16290 SF
1ST FLOOR	16244 SF
LOWER LEVEL	15661 SF
TOTAL	80825 SF

SHEET NOTES

1. DIMENSIONS ARE FROM FACE OF MASONRY/CONCRETE, FACE OF EXTERIOR WALL STUD, AND CENTER OF INTERIOR WALL STUD, UNLESS NOTED OTHERWISE.
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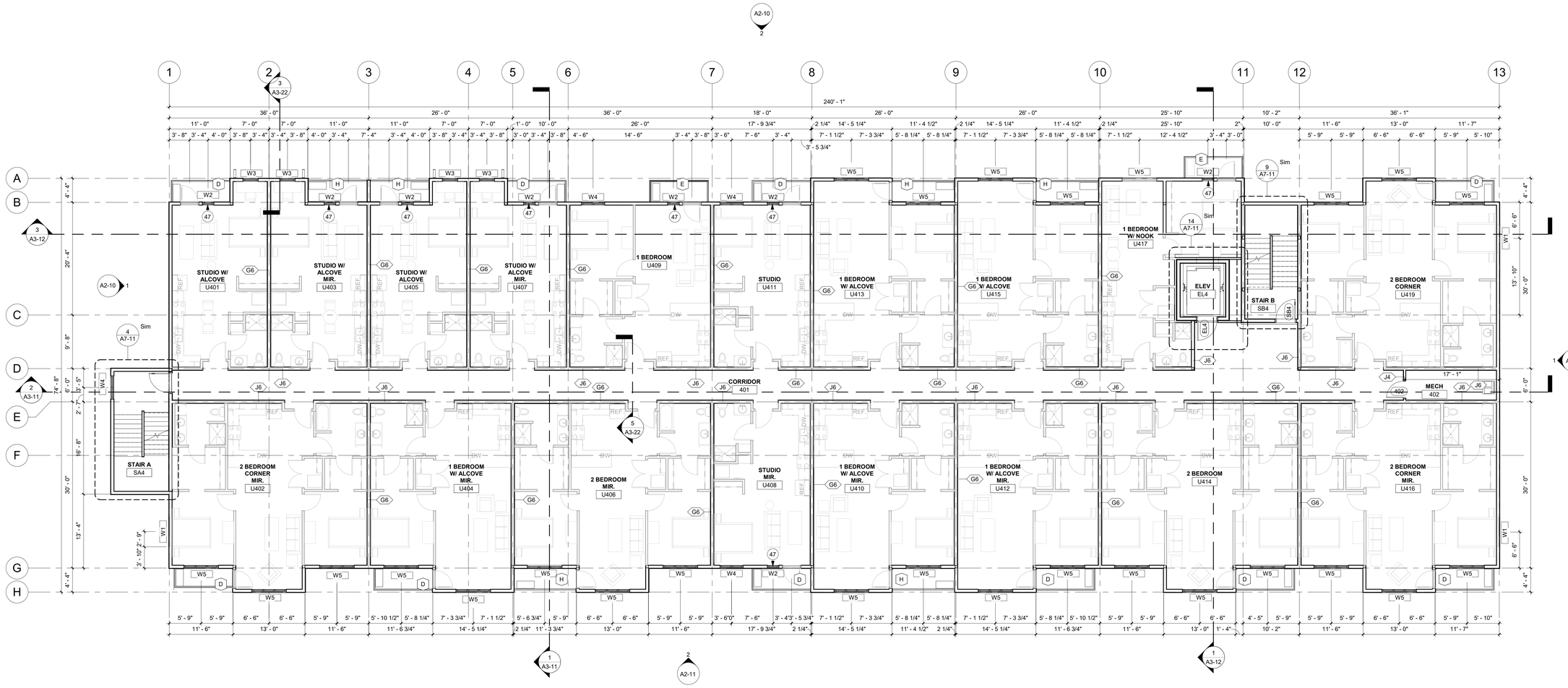
8. COORDINATE FLOOR DRAIN LOCATIONS WITH MECHANICAL/PLUMBING CONTRACTOR AND TRUSS SUPPLIER.

UNIT MATRIX

	STUDIO	1 BEDROOM	2 BEDROOM	TOTAL	SQUARE FOOTAGE
5TH FLOOR	6	7	5	18	17,102 SQ. FT.
4TH FLOOR	6	7	5	18	17,017 SQ. FT.
3RD FLOOR	6	7	5	18	17,017 SQ. FT
2ND FLOOR	6	7	5	18	17,017 SQ. FT.
GROUND/PARKING	-	-	-	-	16,175 SQ. FT.
TOTAL	24	28	20	72	84,328 SQ. FT.

LOWER LEVEL PARKING: 42 STALLS



1 FOURTH FLOOR PLAN
1/8" = 1'-0"

REFERENCE SCALE
1" = 1'
0 1/4" 1/2" 1" 2"

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PROJECT

5TH WARD RESIDENCES

72 UNIT APARTMENT BUILDING

LA CROSSE WISCONSIN

REVISION SCHEDULE

DATE	DESCRIPTION	BY

PROJECT NO.	20-24403
FILE NAME	24403 Apartments Arch- R20.rvt
DRAWN BY	KAP
DESIGNED BY	KMB
REVIEWED BY	KMB
ORIGINAL ISSUE DATE	09/15/2021
CLIENT PROJECT NO.	

TITLE

FOURTH FLOOR PLAN

SHEET

A1-23

KEYNOTE LEGEND

47	TEMPERED GLASS THIS WINDOW

BUILDING AREAS

UNIT NAME	# OF INSTANCES	AREA
STUDIO TYPE A	1	498 SF
STUDIO	13	498 SF
1 BEDROOM TYPE A	1	731 SF
1 BEDROOM 1	8	790 SF
1 BEDROOM 2	12	790 SF
1 BEDROOM 3	3	611 SF
1 BEDROOM 4	4	785 SF
1 BEDROOM CORNER	3	781 SF
1 BEDROOM CORNER 2	1	806 SF
2 BEDROOM	8	1074 SF
2 BEDROOM CORNER	11	1069 SF
2 BEDROOM CORNER 2	1	1093 SF

LEVEL	AREA
4TH FLOOR	16340 SF
3RD FLOOR	16290 SF
2ND FLOOR	16290 SF
1ST FLOOR	16244 SF
LOWER LEVEL	15661 SF
TOTAL	80825 SF

SHEET NOTES

1. DIMENSIONS ARE FROM FACE OF MASONRY/CONCRETE, FACE OF EXTERIOR WALL STUD, AND CENTER OF INTERIOR WALL STUD, UNLESS NOTED OTHERWISE.
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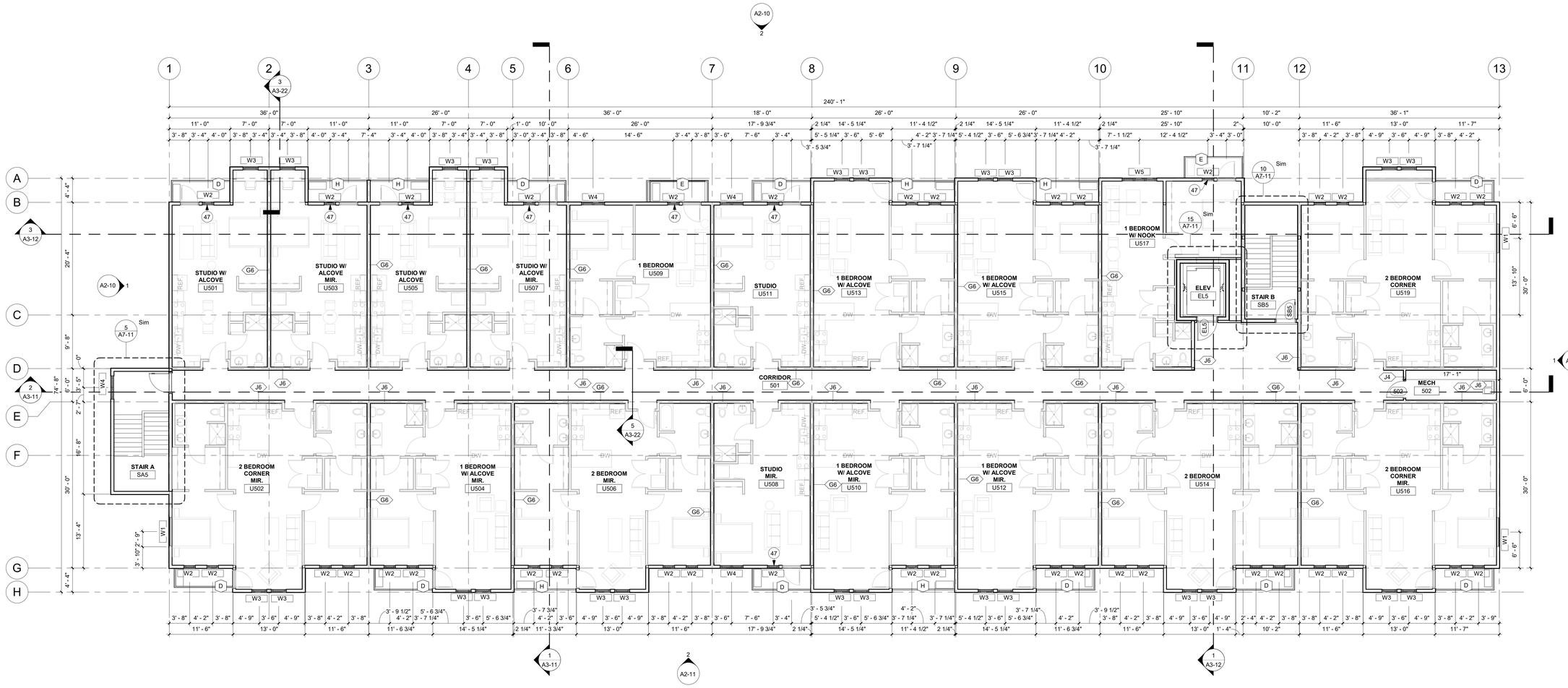
8. COORDINATE FLOOR DRAIN LOCATIONS WITH MECHANICAL/PLUMBING CONTRACTOR AND TRUSS SUPPLIER.

UNIT MATRIX

	STUDIO	1 BEDROOM	2 BEDROOM	TOTAL	SQUARE FOOTAGE
5TH FLOOR	6	7	5	18	17,102 SQ. FT.
4TH FLOOR	6	7	5	18	17,017 SQ. FT.
3RD FLOOR	6	7	5	18	17,017 SQ. FT
2ND FLOOR	6	7	5	18	17,017 SQ. FT.
GROUND/PARKING	-	-	-	-	16,175 SQ. FT.
TOTAL	24	28	20	72	84,328 SQ. FT.

LOWER LEVEL PARKING: 42 STALLS



1 FIFTH FLOOR PLAN
1/8" = 1'-0"

REFERENCE SCALE
1" = 1'
0 1/4" 1/2" 1" 2"

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PROJECT

5TH WARD RESIDENCES

72 UNIT APARTMENT BUILDING

LA CROSSE WISCONSIN

REVISION SCHEDULE

DATE	DESCRIPTION	BY

PROJECT NO.	20-24403
FILE NAME	24403 Apartments Arch- R20.rvt
DRAWN BY	KAP
DESIGNED BY	KMB
REVIEWED BY	KMB
ORIGINAL ISSUE DATE	09/15/2021
CLIENT PROJECT NO.	

TITLE

FIFTH FLOOR PLAN

SHEET

A1-24

KEYNOTE LEGEND

11	SHELF AND ROD
12	PROVIDE BLOCKING FOR INSTALLATION OF FUTURE GRAB BARS
13	REMOVABLE SINK BASE CABINET
41	6'-8" TALL FINISHED OPENING.
43	OPEN WIRE SHELVING
44	MINI SPLIT UNIT
45	24" DEEP OPEN ADJUSTABLE SHELVING FOR PARCELS AND MAIL

SHEET NOTES

1. DIMENSIONS ARE FROM FACE OF MASONRY/CONCRETE, FACE OF EXTERIOR WALL STUD, AND CENTER OF INTERIOR WALL STUD, UNLESS NOTED OTHERWISE.
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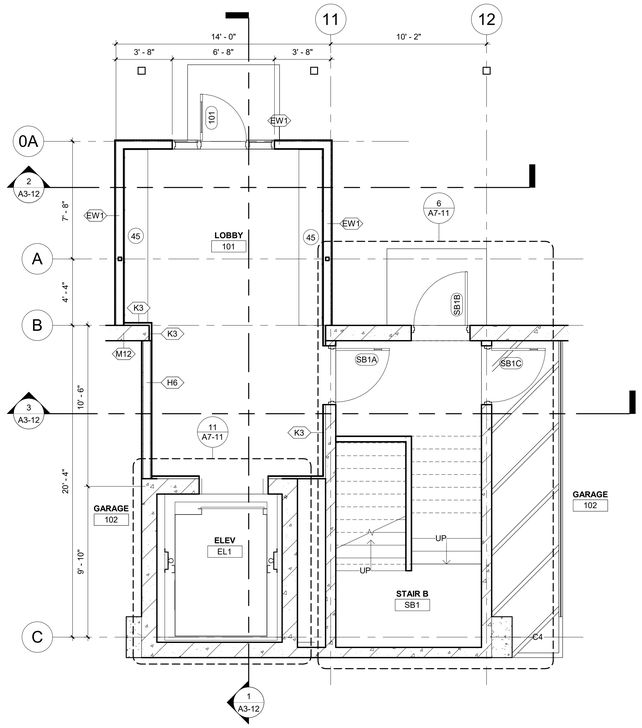
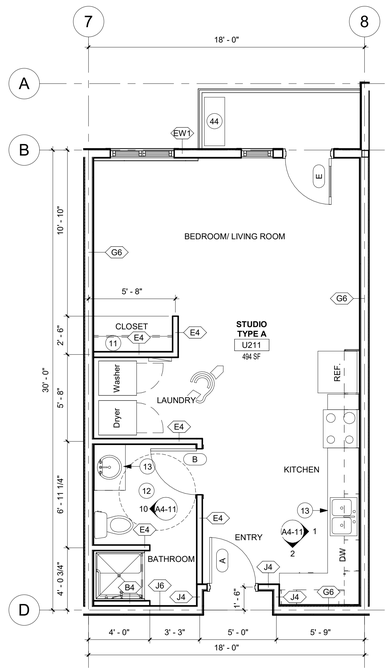
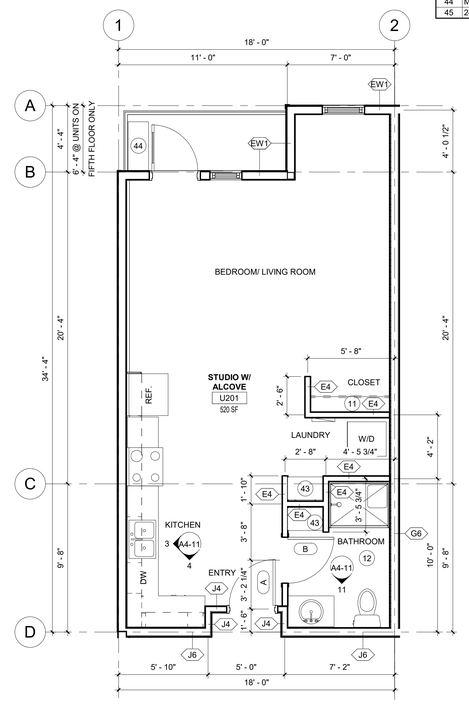
8. COORDINATE FLOOR DRAIN LOCATIONS WITH MECHANICAL/PLUMBING CONTRACTOR AND TRUSS SUPPLIER.



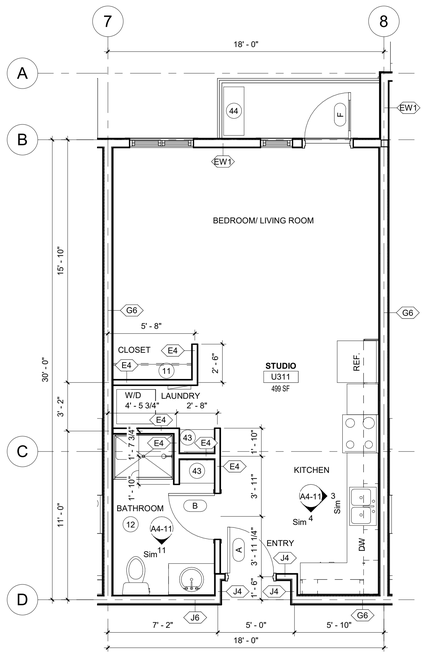
1 GROUND LEVEL LOBBY
1/4" = 1'-0"



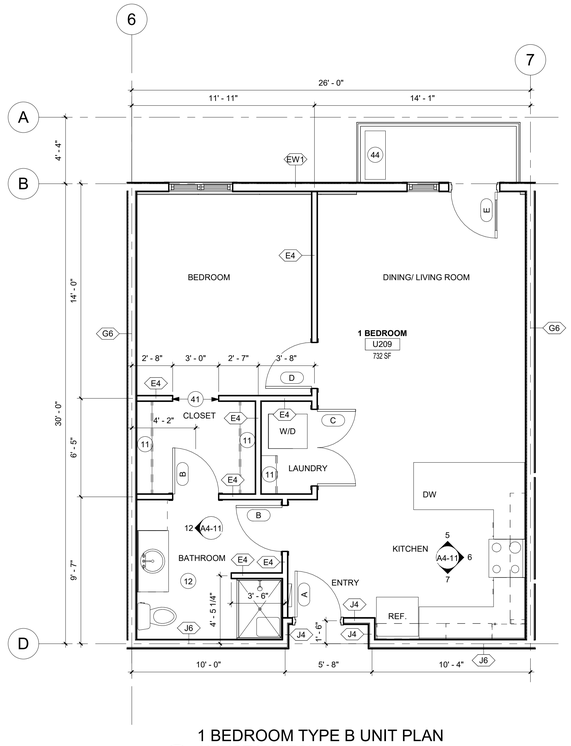
2 STUDIO TYPE A UNIT PLAN (2 INSTANCES)
1/4" = 1'-0"



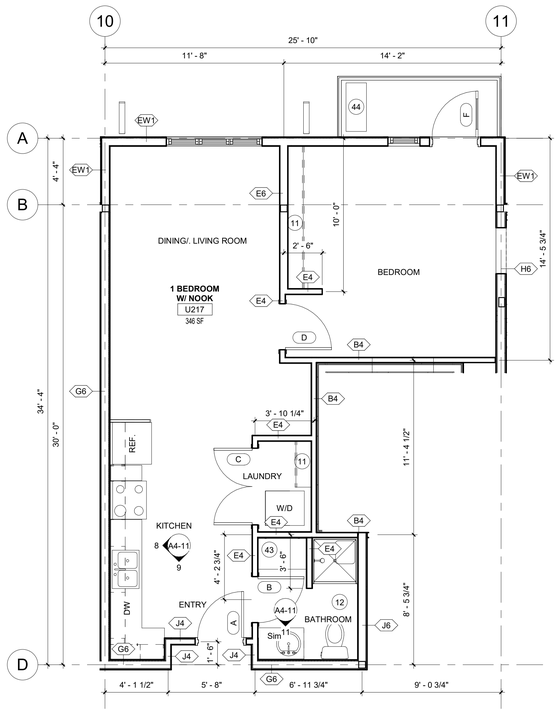
3 STUDIO W/ ALCOVE TYPE B UNIT PLAN (16 INSTANCES)
1/4" = 1'-0"



4 STUDIO TYP B UNIT PLAN (7 INSTANCES)
1/4" = 1'-0"



5 1 BEDROOM TYPE B UNIT PLAN (4 INSTANCES)
1/4" = 1'-0"



6 1 BEDROOM W/ NOOK TYPE B UNIT PLAN (4 INSTANCES)
1/4" = 1'-0"

REFERENCE SCALE
1" = 1'
0 1/4" 1/2" 1" 2"

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9/15/2021 4:26:14 PM

PROJECT

5TH WARD RESIDENCES

72 UNIT APARTMENT BUILDING

LA CROSSE WISCONSIN

REVISION SCHEDULE

DATE	DESCRIPTION	BY

PROJECT NO.	20-24403
FILE NAME	24403 Apartments Arch- R20.rvt
DRAWN BY	KAP
DESIGNED BY	KMB
REVIEWED BY	KMB
ORIGINAL ISSUE DATE	09/15/2021
CLIENT PROJECT NO.	

TITLE

UNIT FLOOR PLANS

SHEET

A1-25

KEYNOTE LEGEND

11	SHELF AND ROD
12	PROVIDE BLOCKING FOR INSTALLATION OF FUTURE GRAB BARS
41	6'-8" TALL FINISHED OPENING.
44	MINI SPLIT UNIT
49	DETAIL AT UNIT U-201 ONLY

SHEET NOTES

1. DIMENSIONS ARE FROM FACE OF MASONRY/CONCRETE, FACE OF EXTERIOR WALL STUD, AND CENTER OF INTERIOR WALL STUD, UNLESS NOTED OTHERWISE.
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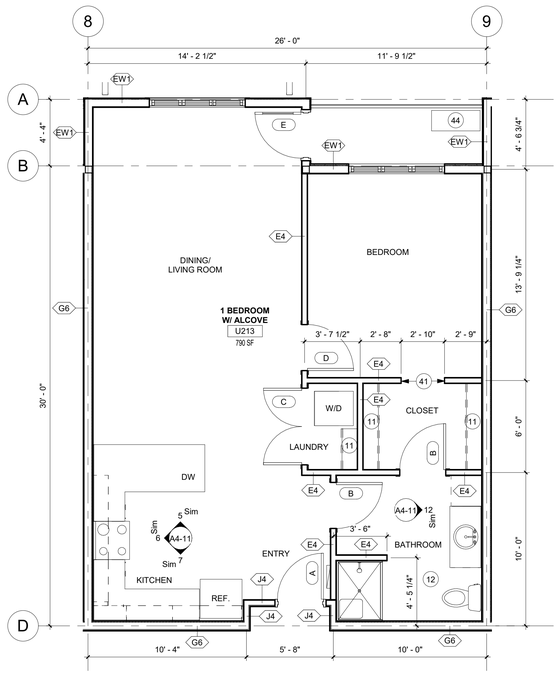
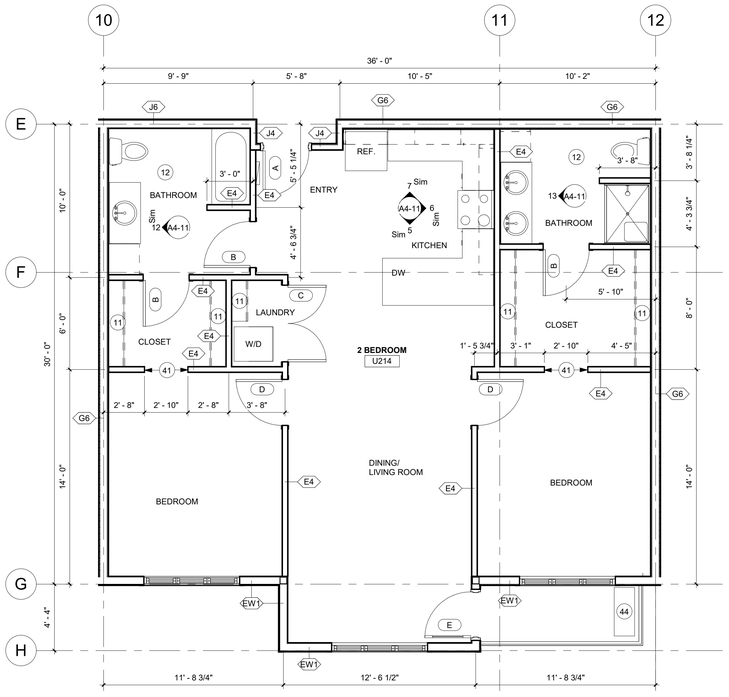
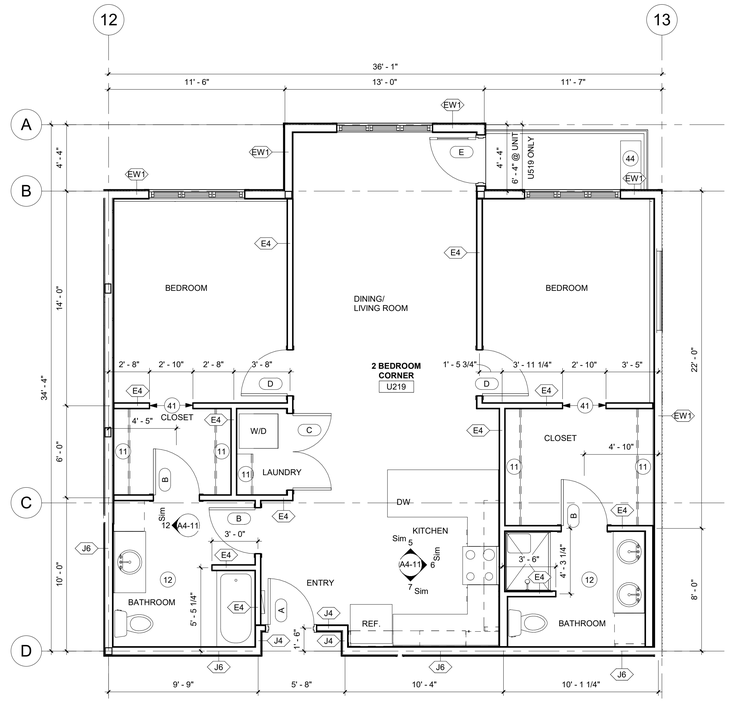
8. COORDINATE FLOOR DRAIN LOCATIONS WITH MECHANICAL/PLUMBING CONTRACTOR AND TRUSS SUPPLIER.



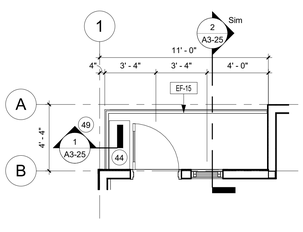
1 BEDROOM W/ ALCOVE TYPE B UNIT PLAN (20 INSTANCES)
1/4" = 1'-0"



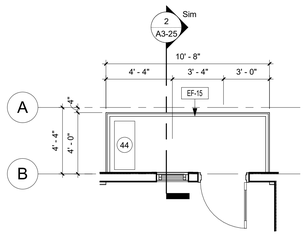
2 BEDROOM TYPE B UNIT PLAN (8 INSTANCES)
1/4" = 1'-0"



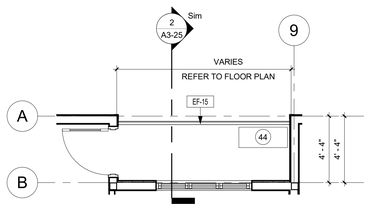
2 BEDROOM CORNER TYPE B UNIT PLAN (12 INSTANCES)
1/4" = 1'-0"



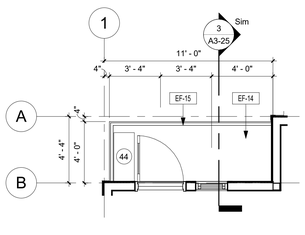
4 PATIO A PLAN
1/4" = 1'-0"



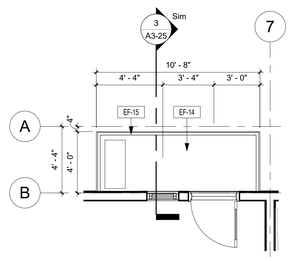
5 PATIO B PLAN
1/4" = 1'-0"



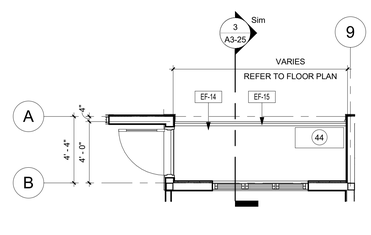
6 PATIO C PLAN
1/4" = 1'-0"



7 BALCONY D PLAN
1/4" = 1'-0"



8 BALCONY E PLAN
1/4" = 1'-0"



9 BALCONY H PLAN
1/4" = 1'-0"

REFERENCE SCALE
1" = 1'
0 1/4" 1/2" 1" 2"

N

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PROJECT

5TH WARD RESIDENCES

72 UNIT APARTMENT BUILDING

LA CROSSE WISCONSIN

REVISION SCHEDULE

DATE	DESCRIPTION	BY

PROJECT NO.	20-24403
FILE NAME	24403 Apartments Arch- R20.rvt
DRAWN BY	KAP
DESIGNED BY	KMB
REVIEWED BY	KMB
ORIGINAL ISSUE DATE	09/15/2021
CLIENT PROJECT NO.	

TITLE

UNIT AND BALCONY FLOOR PLANS

SHEET

A1-26

SHEET NOTES

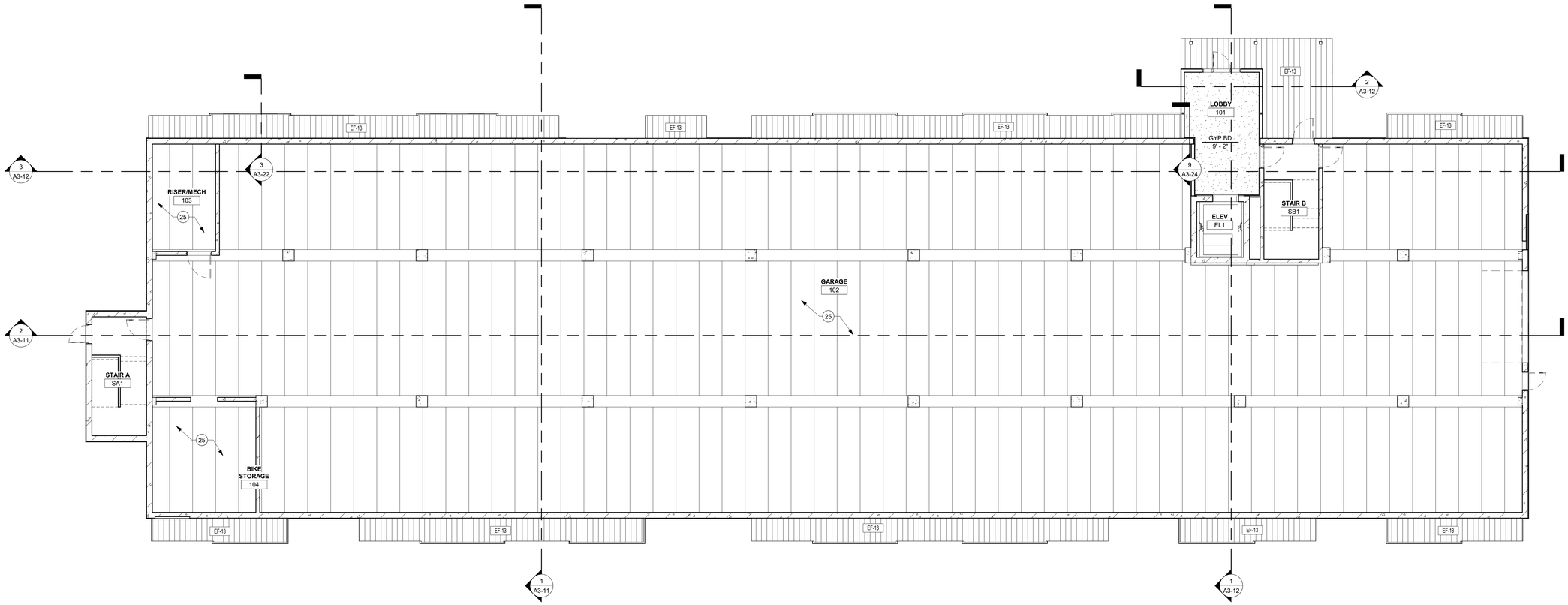
1. MECHANICAL AND ELECTRICAL FIXTURES AND EQUIPMENT NOT SHOWN. COORDINATE WITH MECHANICAL AND ELECTRICAL CONTRACTORS.

CEILING FINISH SCHEDULE

MARK	MATERIAL TYPE	MANUFACTURER	MODEL	SIZE	COLOR	GRID	COMMENTS
ACT-1	MINERAL FIBER	USG		24"X24"X7/8"			
GYP BD	GYPSUM BOARD	-					REFER TO FLOOR/CEILING OR ROOF/CEILING ASSEMBLIES

KEYNOTE LEGEND

25	EXPOSED STRUCTURE



1 GROUND LEVEL REFLECTED CEILING PLAN
1/8" = 1'-0"

REFERENCE SCALE
1" = 1'
0 1/4" 1/2" 1" 2"

N

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PROJECT

5TH WARD RESIDENCES

72 UNIT APARTMENT BUILDING

LA CROSSE WISCONSIN

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CLIENT PROJECT NO.	

TITLE

GROUND LEVEL REFLECTED CEILING PLAN

SHEET

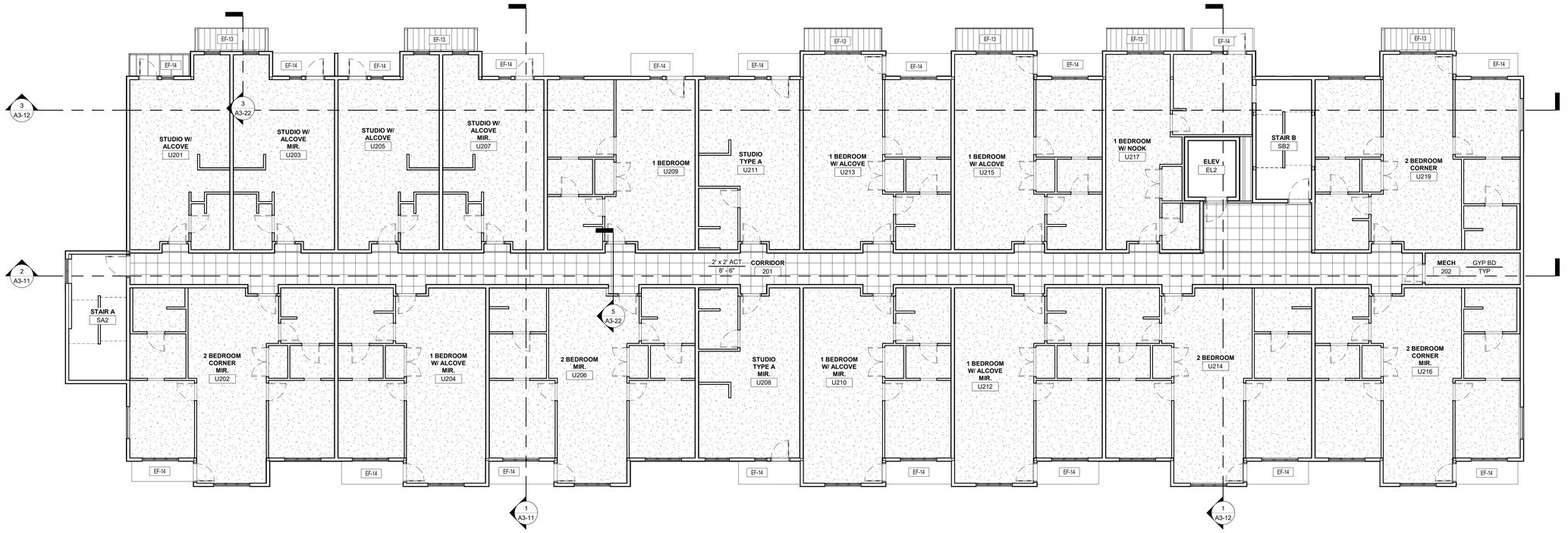
A1-31

SHEET NOTES

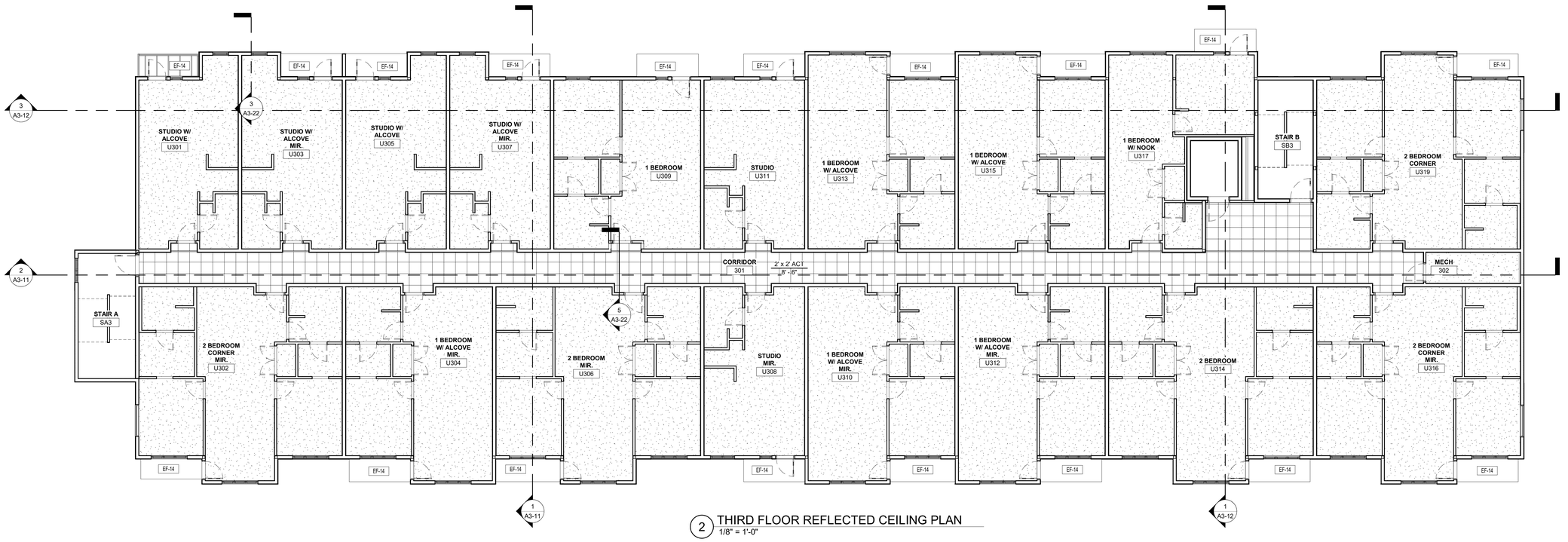
1. MECHANICAL AND ELECTRICAL FIXTURES AND EQUIPMENT NOT SHOWN. COORDINATE WITH MECHANICAL AND ELECTRICAL CONTRACTORS.

CEILING FINISH SCHEDULE

MARK	MATERIAL TYPE	MANUFACTURER	MODEL	SIZE	COLOR	GRID	COMMENTS
ACT-1	MINERAL FIBER	USG		24"x24"x7/8"			
GYP BD	GYPSUM BOARD	-					REFER TO FLOOR/CEILING OR ROOF/CEILING ASSEMBLIES



1 SECOND FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"



2 THIRD FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

REFERENCE SCALE
1"= 1/4"
0 1/4" 1/2" 1" 2"

N

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PROJECT

5TH WARD RESIDENCES

72 UNIT APARTMENT BUILDING

LA CROSSE WISCONSIN

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TITLE

SECOND AND THIRD FLOOR REFLECTED CEILING PLANS

SHEET

A1-32

SHEET NOTES

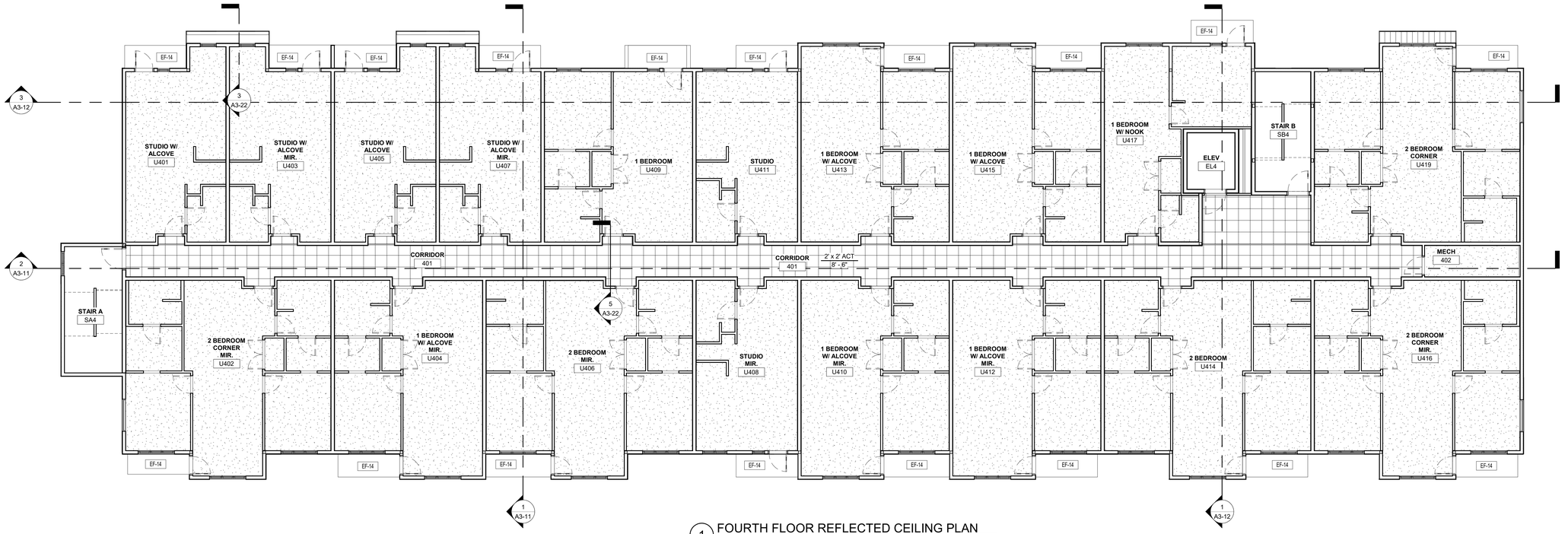
1. MECHANICAL AND ELECTRICAL FIXTURES AND EQUIPMENT NOT SHOWN. COORDINATE WITH MECHANICAL AND ELECTRICAL CONTRACTORS.

CEILING FINISH SCHEDULE

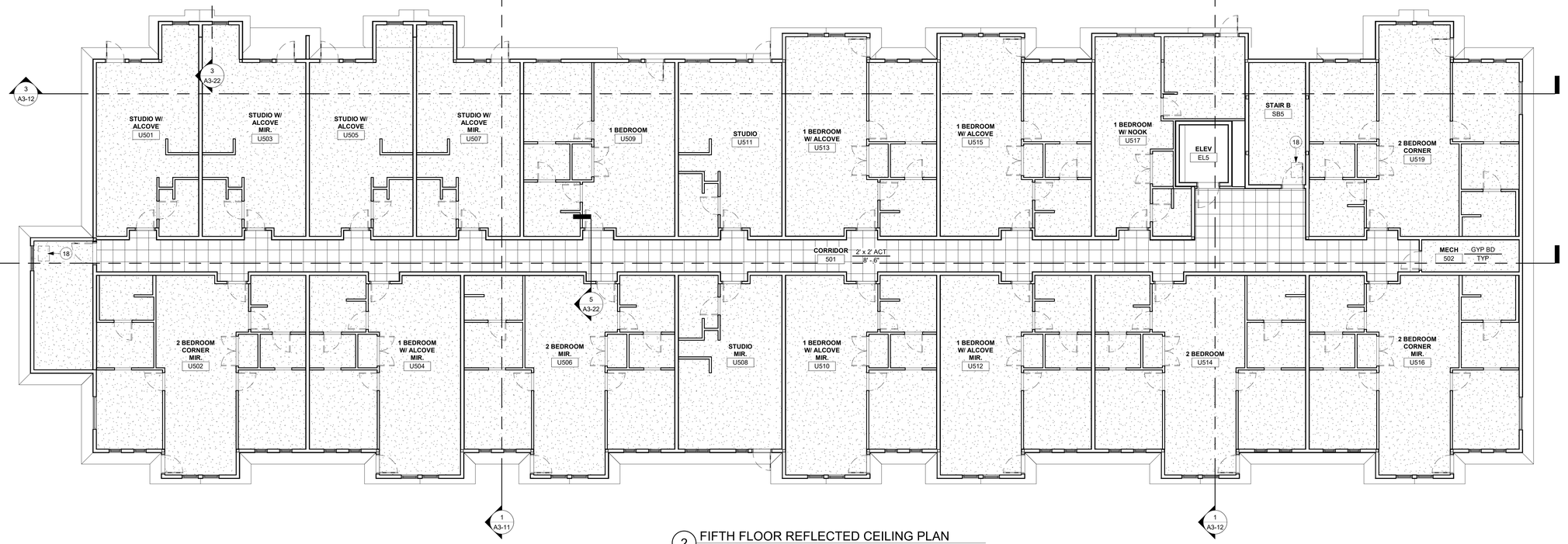
MARK	MATERIAL TYPE	MANUFACTURER	MODEL	SIZE	COLOR	GRID	COMMENTS
ACT-1	MINERAL FIBER	USG		24"x24"x7/8"			
GYP BD	GYPSUM BOARD	-					REFER TO FLOOR/CEILING OR ROOF/CEILING ASSEMBLIES

KEYNOTE LEGEND

18	ATTIC ACCESS, SIZE TO BE 30" X WIDTH BETWEEN TRUSSES



1 FOURTH FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"



2 FIFTH FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

REFERENCE SCALE 1" = 1'

0 1/4" 1/2" 1" 2"

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PROJECT

5TH WARD RESIDENCES

72 UNIT APARTMENT BUILDING

LA CROSSE WISCONSIN

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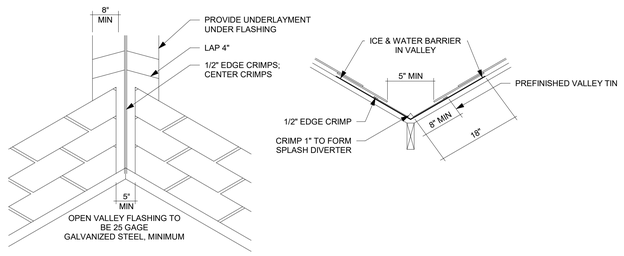
TITLE

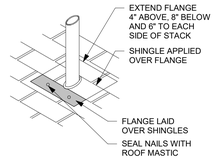
FOURTH AND FIFTH FLOOR REFLECTED CEILING PLAN

SHEET

A1-33

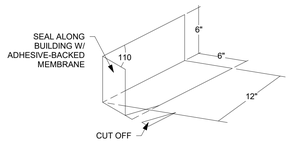


VALLEY FLASHING DETAIL



FLASHING SHALL BE A EPDM FLEXIBLE COLLAR WITH ACRYLIC COATED ABS PLASTIC BASE AND STAINLESS STEEL STRAP

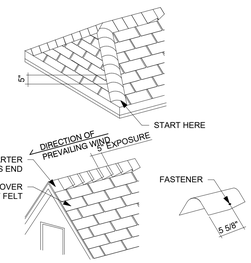
STACK FLASHING DETAIL



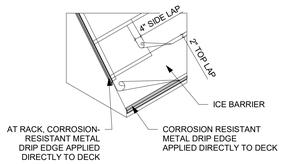
NOTE:
PROVIDE KICK OUT FLASHING AT ALL EAVE ENDS OF GABLE ROOF TO WALL INTERSECTIONS. DETAIL AS PER MANUFACTURER'S INSTRUCTIONS.

ALL SEAMS TO BE WATERTIGHT

KICKOUT FLASHING DETAIL



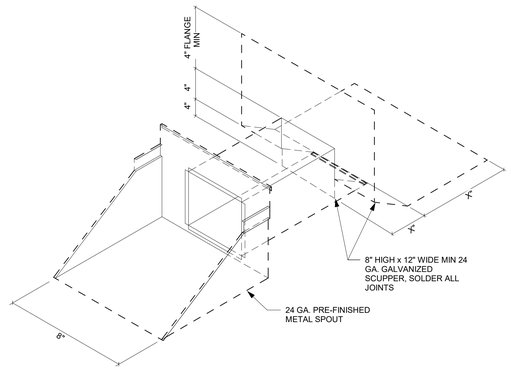
HIP & RIDGE DETAIL



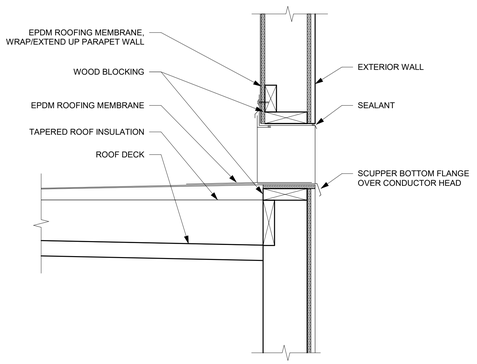
LAP UNDERLAYMENT 6" ON BOTH SIDES OF HIPS AND RIDGES

DRIP EDGE COLOR SELECTED BY ARCHITECT

UNDERLAYMENT DETAIL



1 SCUPPER ISOMETRIC DETAIL
1 1/2" = 1'-0"



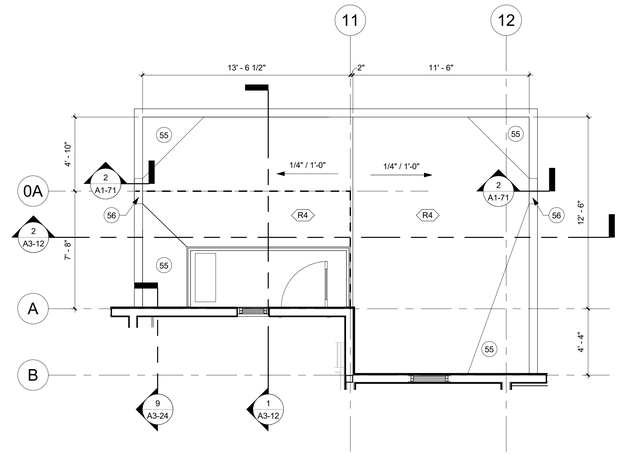
2 SCUPPER DETAIL
1 1/2" = 1'-0"

KEYNOTE LEGEND	
55	TAPERED INSULATION, TYPICAL
56	SCUPPER, REFER TO DETAIL

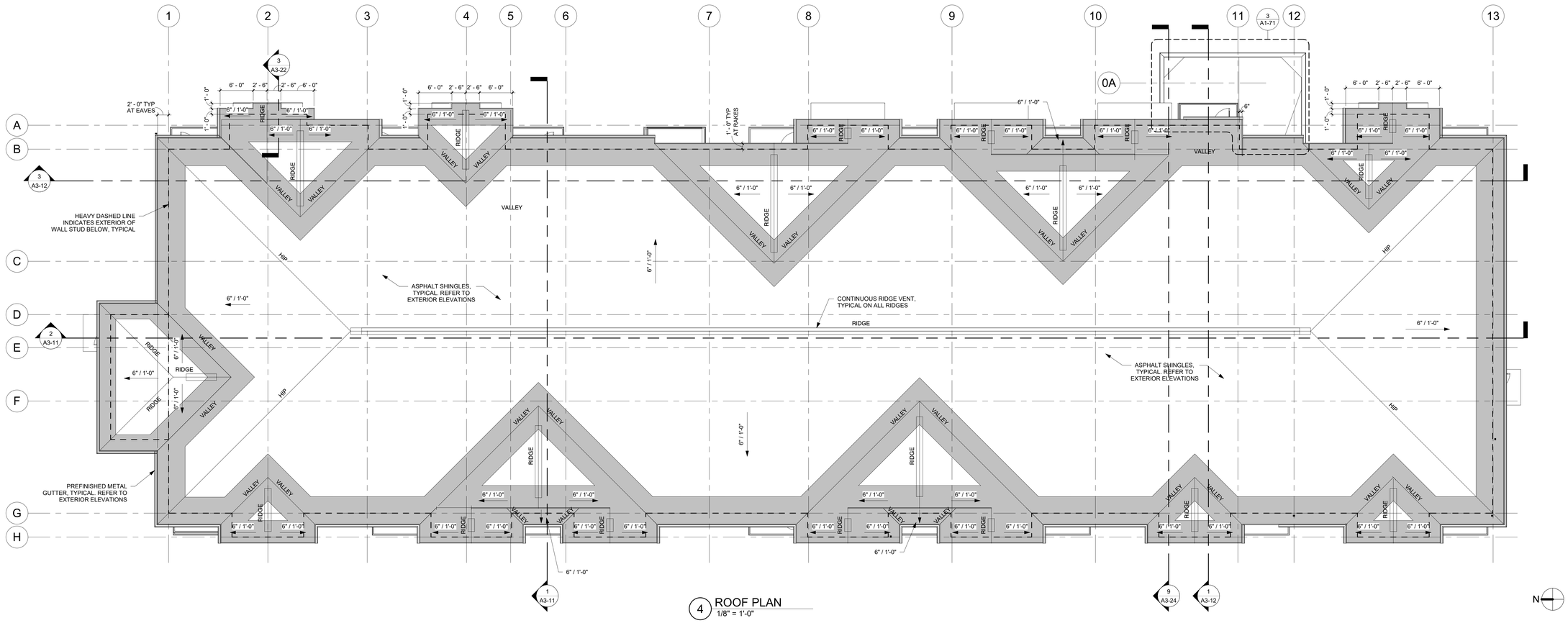
SHEET NOTES

1. PROVIDE FLASHING AND CAULKING AROUND ALL ROOF PENETRATIONS. VERIFY SIZE AND LOCATIONS WITH ALL CONTRACTORS.

ICE AND WATER SHIELD LOCATIONS
INSTALL 3' - 0" FROM EXTERIOR FACE OF WALL STUD, VALLEYS, AND POTENTIAL ICE AREAS.



3 NEW ROOF PLAN - VESTIBULE
1/4" = 1'-0"



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

REFERENCE SCALE
1" = 1'
0 1/4" 1/2" 1" 2"

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PROJECT

5TH WARD RESIDENCES

72 UNIT APARTMENT BUILDING

LA CROSSE WISCONSIN

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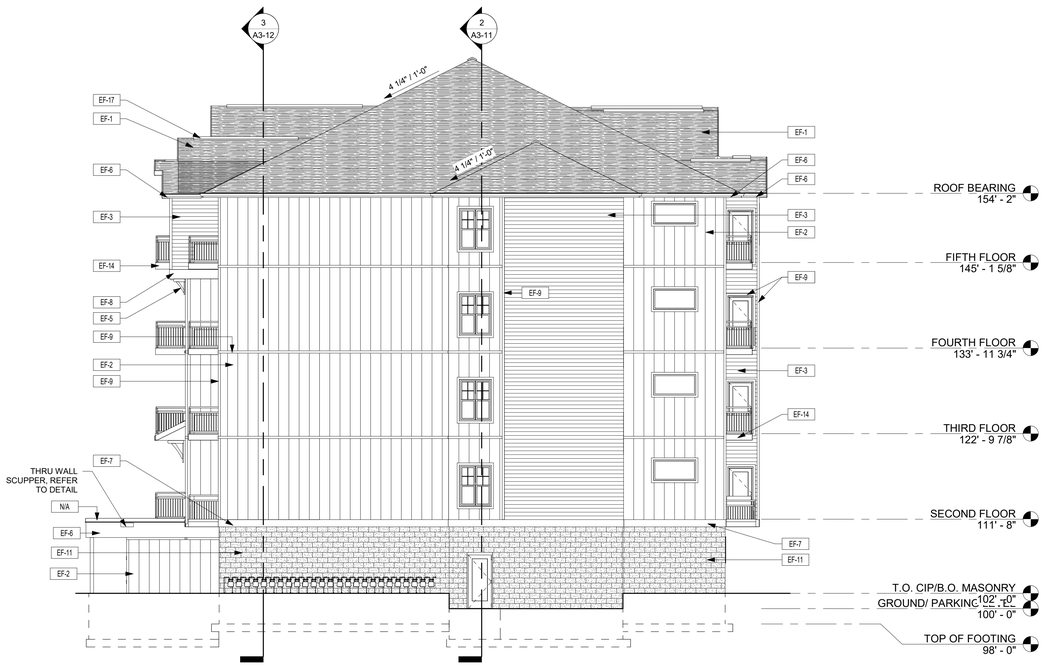
CLIENT PROJECT NO.	

TITLE

ROOF PLAN

SHEET

A1-71



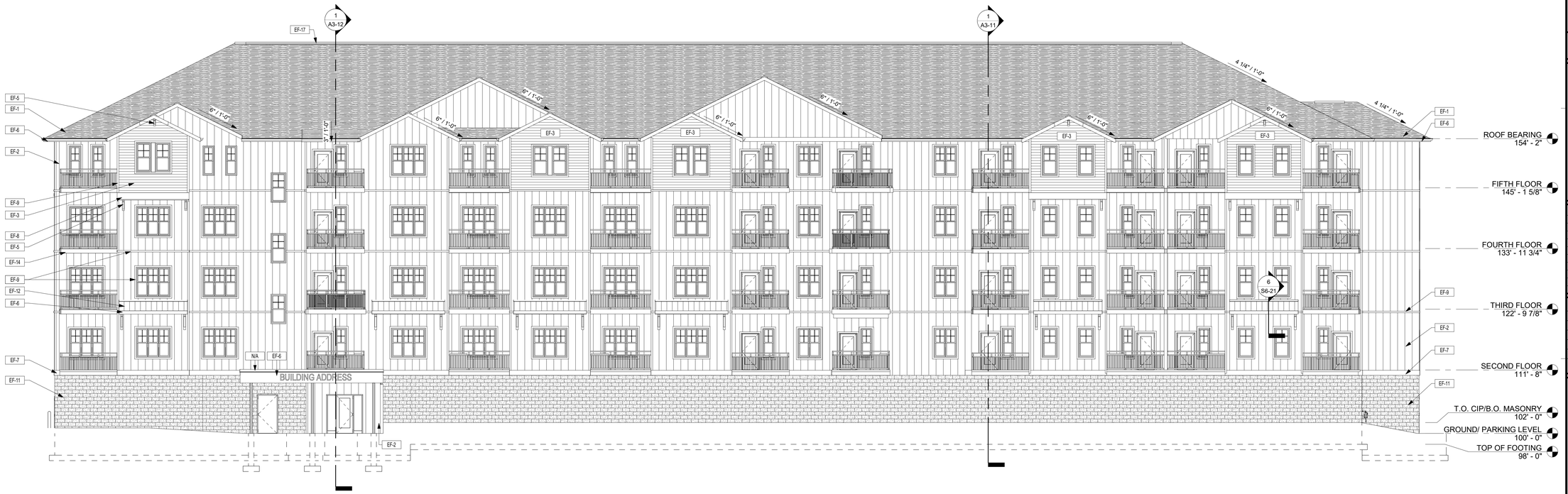
1 BUILDING 1 NORTH ELEVATION (BUILDING 2 EAST ELEVATION)
1/8" = 1'-0"

EXTERIOR FINISH SCHEDULE

MARK	MATERIAL TYPE	MANUFACTURER	SERIES	SIZE	COLOR	COMMENTS
EF-1	TEXTURED FIBERGLASS SHINGLES					
EF-2	BOARD AND BATTEN	LP SMARTSIDE				
EF-3	6" LAP SIDING	LP SMARTSIDE				
EF-4	6" LAP SIDING	LP SMARTSIDE				
EF-5	ACCENT BRACKET					
EF-6	ROOF EDGE FASCIA	ROLLEX				
EF-7	TRIM			1X10		
EF-8	TEXTURED PLANK	LP SMARTSIDE				
EF-9	TRIM	LP SMARTSIDE		1X4		
EF-11	ARCHITECTURAL SPLIT-FACE CMU	COUNTY MATERIALS		8" X 16"		
EF-12	METAL ROOFING	M-COR				
EF-14	DECKING AND FASCIA BOARD					
EF-15	GUARDRAIL					RFERT O STRUCTURAL NOTES FOR AILING DESIGN LOADS
EF-16	RIDGE VENT	COR-A-VENT	V-600 RIDGE VENT			CLEAR AREA: 20 SQ IN PER LINEAL FOOT
EF-17	ROOF VENT	COR-A-VENT	ROOF-2-WALL VENT			

SHEET NOTES

1. STOP WATERPROOFING AT ADJOINING GRADE. DO NOT APPLY TO EXPOSED PORTIONS OF FOUNDATION.
2. THROUGH-WALL FLASHING TO BE LOCATED ABOVE GRADE.
3. SEALANT COLORS TO MATCH ADJACENT FINISHED SURFACES.
4. ATTIC VENTING REQUIREMENTS:
   A. 54.47 SQ FT OF VENTING NEEDED.
   B. 62.93 SQ FT OF VENTING PROVIDED AT EAVE.
   C. 40.97 SQ FT OF VENTING PROVIDED AT RIDGE.
   D. 103.9 SQ FT OF TOTAL VENTING PROVIDED.
5. ALL EXTERIOR WINDOW AND DOOR TRIM TO BE EF-9 UNLESS LOCATED WITHIN BRICK VENEER.
6. PROVIDE 2" INSIDE CORNERS AT ALL SIDING LOCATIONS, COLOR TO MATCH ADJACENT SIDING.
7. AT WALL PROJECTIONS, RETURN ALL FINISHES, FINISHES TO MATCH PROJECTED SURFACES.
8. APPLY ALL SIDING PER MANUFACTURER'S RECOMMENDATIONS.
9. PROVIDE TREATED WOOD BLOCKING AND/OR VINYL TRIM AS NECESSARY AT EXTERIOR LIGHT FIXTURES AND OTHER NECESSARY MECHANICAL, ELECTRICAL OR PLUMBING PENETRATIONS.
10. ALL FASCIAS AND SOFFITS TO BE PREFINISHED ALUMINUM.
11. PROVIDE CONTINUOUS SOFFIT AND SHINGLE - OVER RIDGE VENTS THROUGHOUT.
12. EXPOSED CONCRETE FOUNDATION WALL SHALL HAVE A RUBBED FINISH.



2 BUILDING 1 EAST ELEVATION (BUILDING 2 SOUTH ELEVATION)
1/8" = 1'-0"

REFERENCE SCALE
1" = 1'-0"
0 1/4" 1/2" 1" 2"

9/15/2021 4:27:17 PM

PROJECT

5TH WARD RESIDENCES

72 UNIT APARTMENT BUILDING

LA CROSSE WISCONSIN

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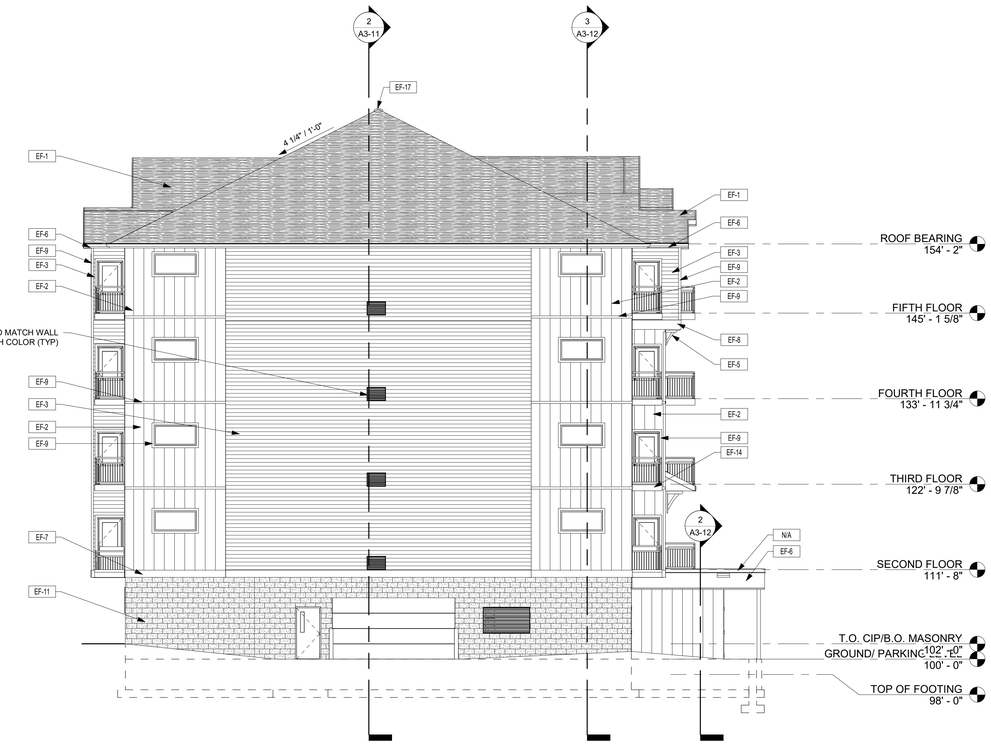
TITLE

EXTERIOR ELEVATIONS

SHEET

A2-10



1 BUILDING 1 SOUTH ELEVATION (BUILDING 2 WEST ELEVATION)
1/8" = 1'-0"

2 BUILDING 1 WEST ELEVATION (BUILDING 2 NORTH ELEVATION)
1/8" = 1'-0"

EXTERIOR FINISH SCHEDULE

MARK	MATERIAL TYPE	MANUFACTURER	SERIES	SIZE	COLOR	COMMENTS
EF-1	TEXTURED FIBERGLASS SHINGLES					
EF-2	BOARD AND BATTEN	LP SMARTSIDE				
EF-3	6" LAP SIDING	LP SMARTSIDE				
EF-4	6" LAP SIDING	LP SMARTSIDE				
EF-5	ACCENT BRACKET					
EF-6	ROOF EDGE FASCIA	ROLLEX				
EF-7	TRIM			1X10		
EF-8	TEXTURED PLANK	LP SMARTSIDE				
EF-9	TRIM	LP SMARTSIDE		1X4		
EF-11	ARCHITECTURAL SPLIT-FACE CMU	COUNTY MATERIALS		8" X 16"		
EF-12	METAL ROOFING	M-COR				
EF-14	DECKING AND FASCIA BOARD					
EF-15	GUARDRAIL					RFERT O STRUCTURAL NOTES FOR AILING DESIGN LOADS
EF-16	RIDGE VENT	COR-A-VENT	V-600 RIDGE VENT			CLEAR AREA: 20 SQ IN PER LINEAL FOOT
EF-17	ROOF VENT	COR-A-VENT	ROOF-2-WALL VENT			

SHEET NOTES

1. STOP WATERPROOFING AT ADJOINING GRADE. DO NOT APPLY TO EXPOSED PORTIONS OF FOUNDATION.
2. THROUGH-WALL FLASHING TO BE LOCATED ABOVE GRADE.
3. SEALANT COLORS TO MATCH ADJACENT FINISHED SURFACES.
4. ATTIC VENTING REQUIREMENTS:
   A. 54.47 SQ FT OF VENTING NEEDED.
   B. 62.93 SQ FT OF VENTING PROVIDED AT EAVE.
   C. 40.97 SQ FT OF VENTING PROVIDED AT RIDGE.
   D. 103.9 SQ FT OF TOTAL VENTING PROVIDED.
5. ALL EXTERIOR WINDOW AND DOOR TRIM TO BE EF-9 UNLESS LOCATED WITHIN BRICK VENEER.
6. PROVIDE 2" INSIDE CORNERS AT ALL SIDING LOCATIONS, COLOR TO MATCH ADJACENT SIDING.
7. AT WALL PROJECTIONS, RETURN ALL FINISHES, FINISHES TO MATCH PROJECTED SURFACES.
8. APPLY ALL SIDING PER MANUFACTURER'S RECOMMENDATIONS.
9. PROVIDE TREATED WOOD BLOCKING AND/OR VINYL TRIM AS NECESSARY AT EXTERIOR LIGHT FIXTURES AND OTHER NECESSARY MECHANICAL, ELECTRICAL OR PLUMBING PENETRATIONS.
10. ALL FASCIAS AND SOFFITS TO BE PREFINISHED ALUMINUM.
11. PROVIDE CONTINUOUS SOFFIT AND SHINGLE - OVER RIDGE VENTS THROUGHOUT.
12. EXPOSED CONCRETE FOUNDATION WALL SHALL HAVE A RUBBED FINISH.

REFERENCE SCALE
1" = 1'-0"
0 1/4" 1/2" 1" 2"

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PROJECT

5TH WARD RESIDENCES

72 UNIT APARTMENT BUILDING

LA CROSSE WISCONSIN

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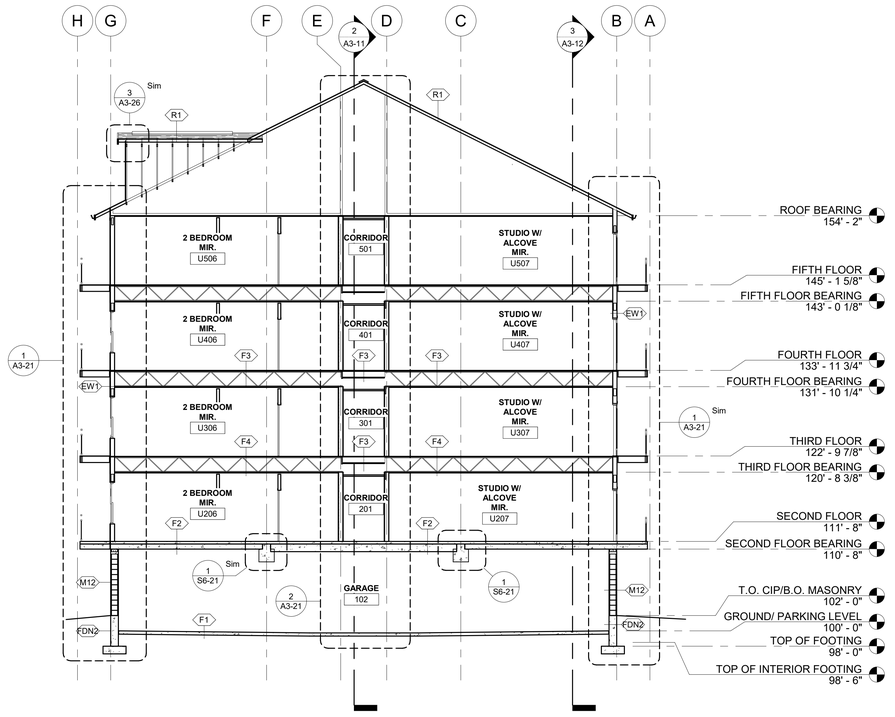
TITLE

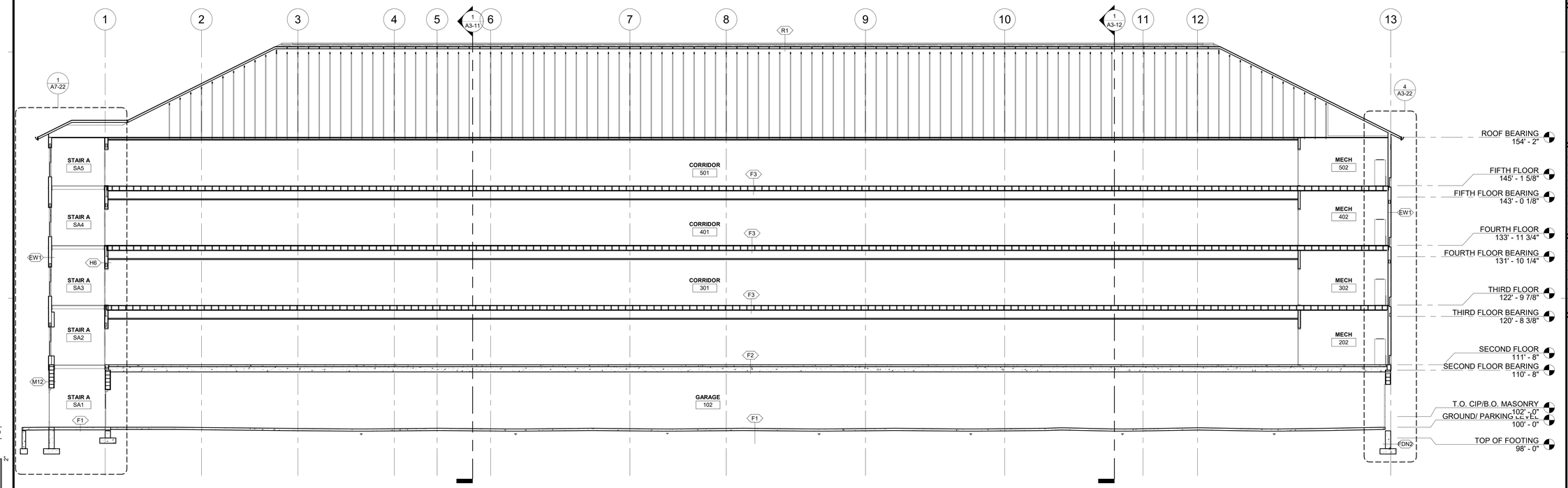
EXTERIOR ELEVATIONS

SHEET

A2-11



1 BUILDING SECTION
1/8" = 1'-0"



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

REFERENCE SCALE
1" = 1'
0 1/4" 1/2" 1" 2"

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PROJECT

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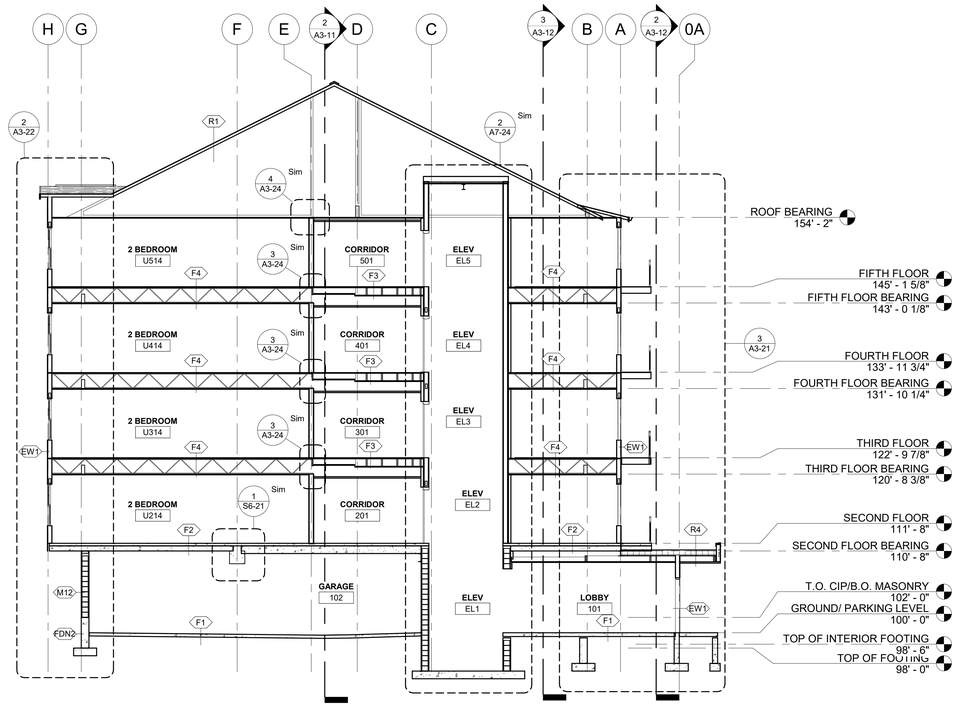
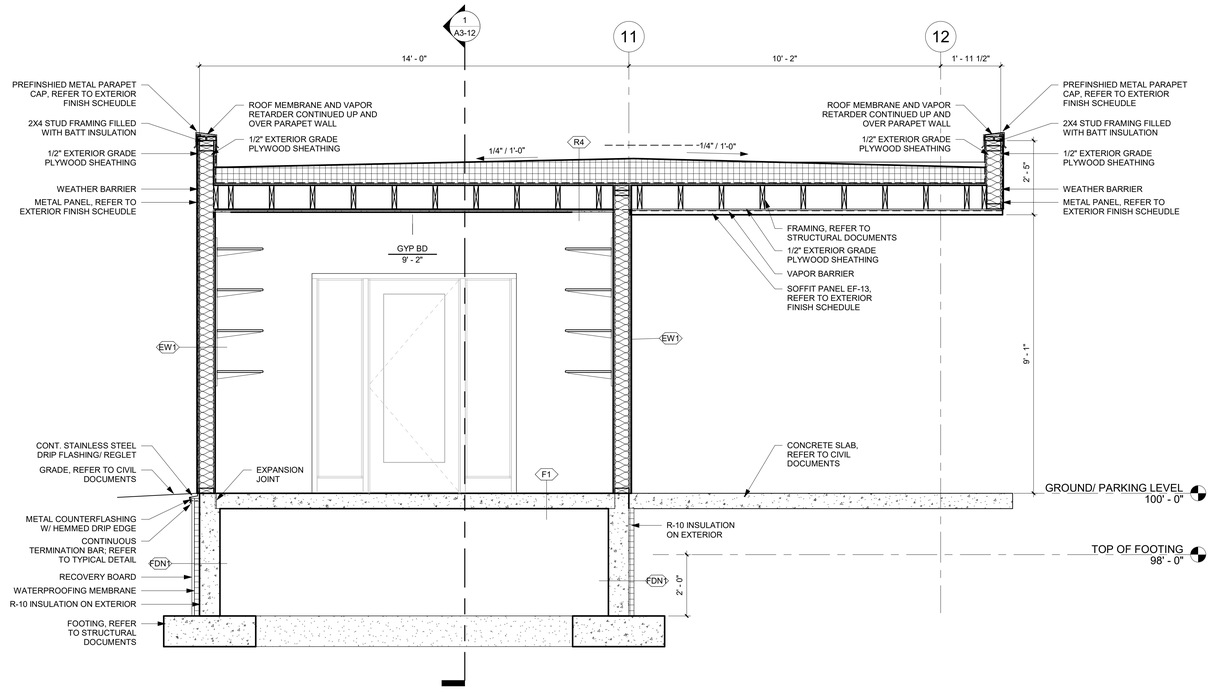
BUILDING SECTIONS

SHEET

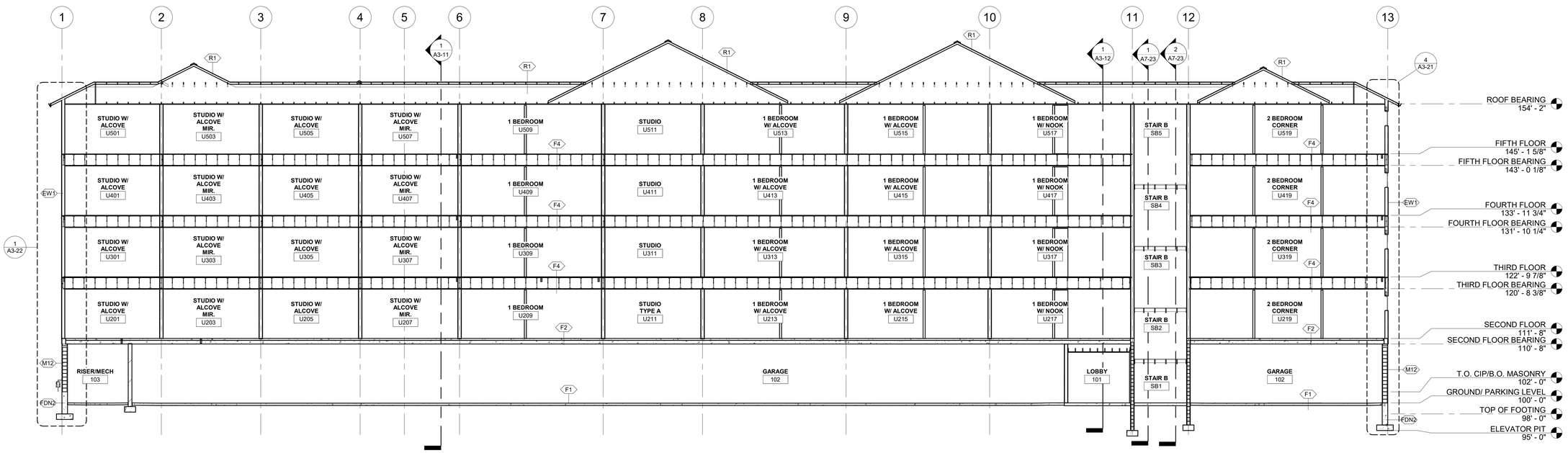
A3-11



1 BUILDING SECTION
1/8" = 1'-0"



2 BUILDING SECTION @ VESTIBULE
1/2" = 1'-0"



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

REFERENCE SCALE
1" = 1'-0"
0 1/4" 1/2" 1" 2"

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PROJECT

5TH WARD RESIDENCES

72 UNIT APARTMENT BUILDING

LA CROSSE WISCONSIN

REVISION SCHEDULE

DATE	DESCRIPTION	BY

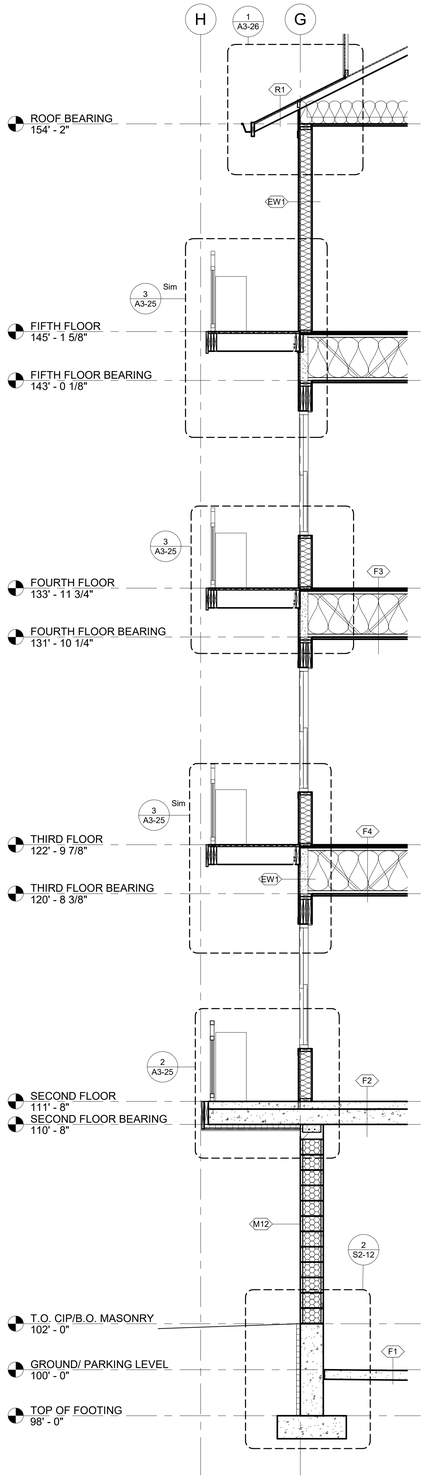
PROJECT NO.	20-24403
FILE NAME	24403 Apartments Arch- R20.rvt
DRAWN BY	KAP
DESIGNED BY	KMB
REVIEWED BY	KMB
ORIGINAL ISSUE DATE	09/15/2021
CLIENT PROJECT NO.	

TITLE

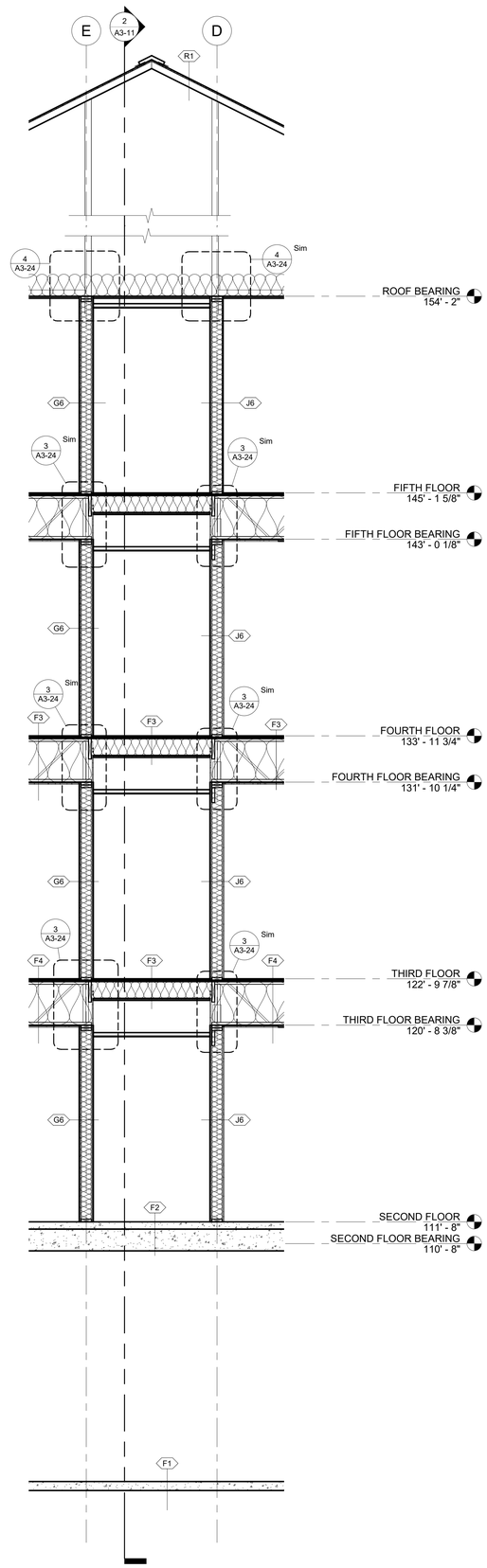
BUILDING SECTIONS

SHEET

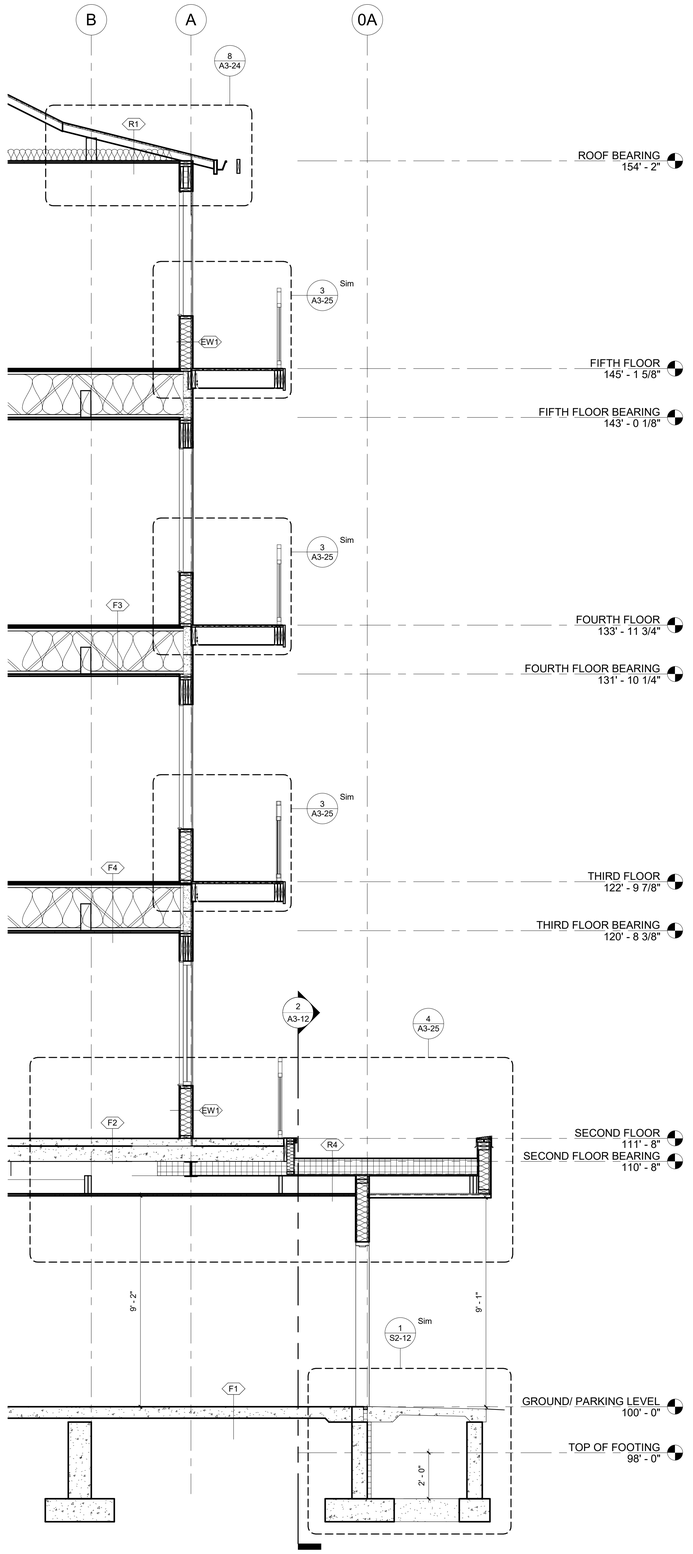
A3-12



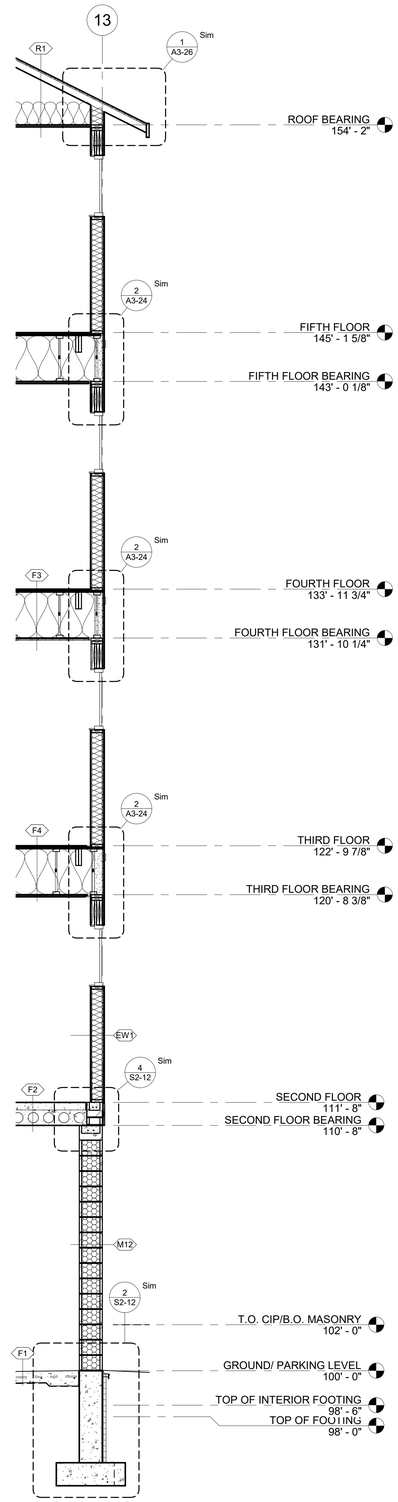
1 WALL SECTION
3/8" = 1'-0"



2 CORRIDOR WALL SECTION
3/8" = 1'-0"



3 WALL SECTION AT LOBBY/BALCONY
3/8" = 1'-0"



4 WALL SECTION TYPICAL @ WINDOWS
3/8" = 1'-0"

REFERENCE SCALE
1" = 1'
0 1/4" 1/2" 1"

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ISG

PROJECT

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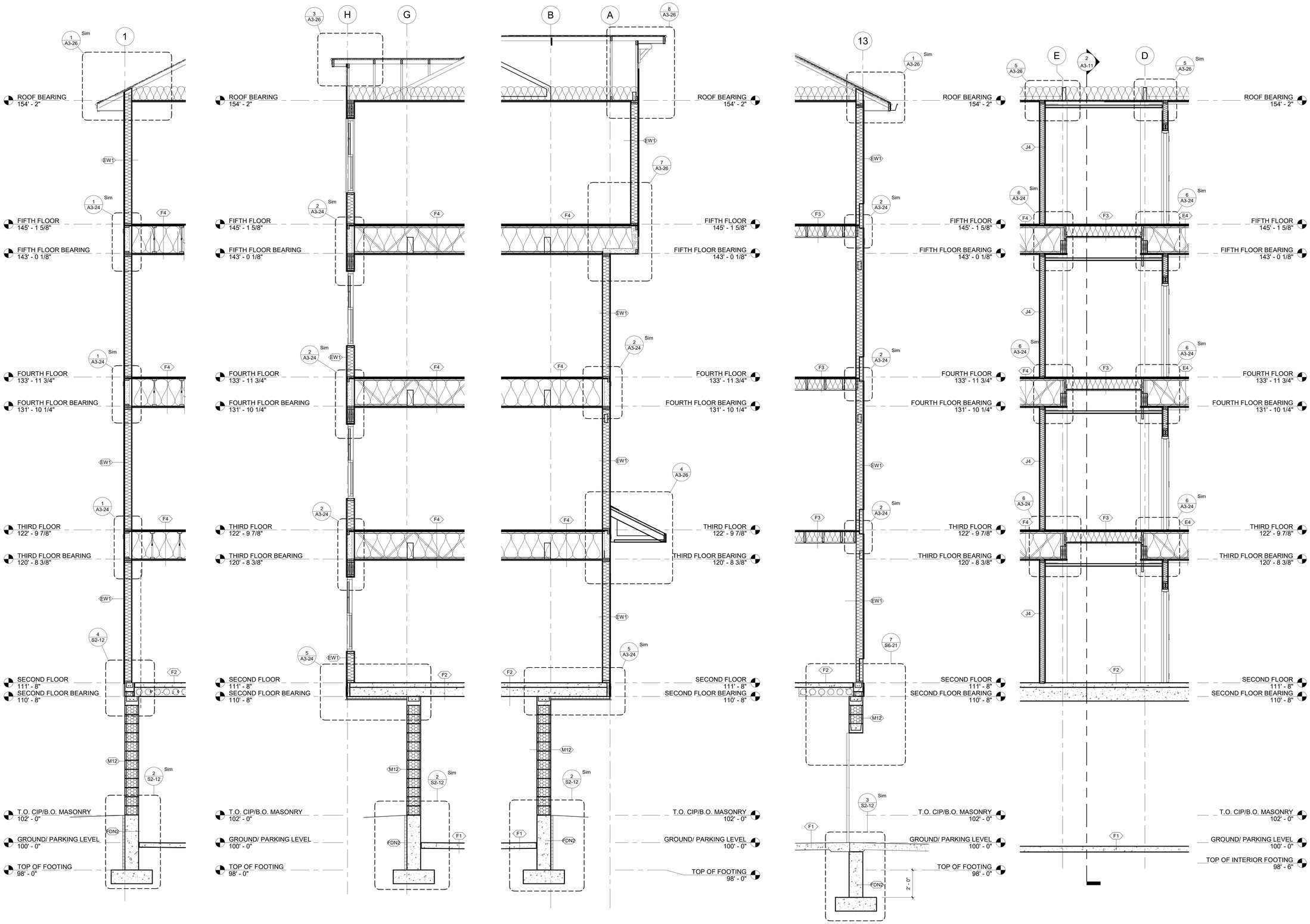
WALL SECTIONS

SHEET

A3-21



1 WALL SECTION TYPICAL
3/8" = 1'-0"

2 WALL SECTION AT CANTILEVERED PLANK
3/8" = 1'-0"

3 WALL SECTION AT FOURTH FLOOR JOG
3/8" = 1'-0"

4 WALL SECTION AT OHD
3/8" = 1'-0"

5 WALL SECTION AT UNIT ENTRIES
3/8" = 1'-0"

REFERENCE SCALE
1" = 1'
0 1' 2'

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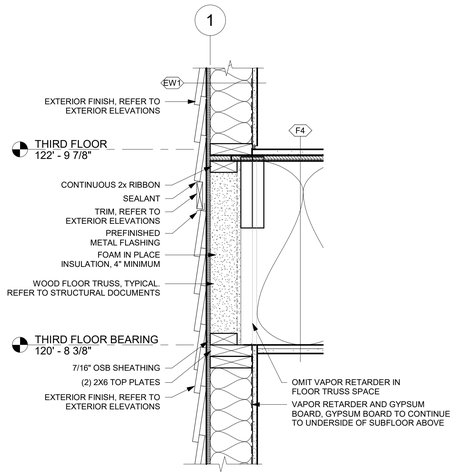
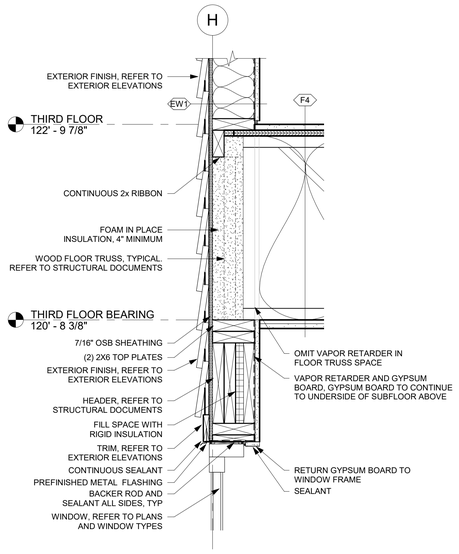
WALL SECTIONS

SHEET

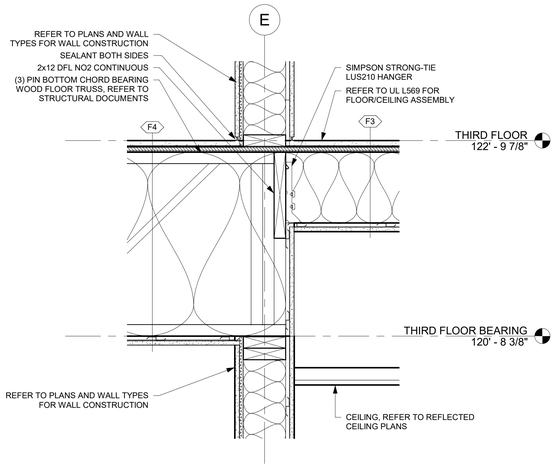
A3-22



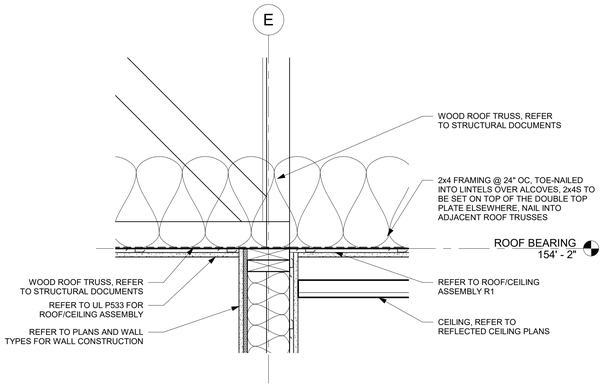
1 ENLARGED SECTION AT FLOOR (NON-LOAD BEARING)
1 1/2" = 1'-0"



2 ENLARGED SECTION AT FLOOR (LOAD BEARING)
1 1/2" = 1'-0"



3 ENLARGED SECTION AT CORRIDOR
1 1/2" = 1'-0"



4 ENLARGED SECTION AT CORRIDOR ROOF BEARING
1 1/2" = 1'-0"

5 ENLARGED SECTION AT CANTILEVERED PLANK
1 1/2" = 1'-0"

6 BULKHEAD AT UNIT ENTRIES
1 1/2" = 1'-0"

7 ENLARGED SECTION AT COORIDOR AND STAIR A
1 1/2" = 1'-0"

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

9 WALL SECTION AT LOBBY
1 1/2" = 1'-0"

REFERENCE SCALE
1" = 1'
0 1/4" 1/2" 1" 2"

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ISG

PROJECT

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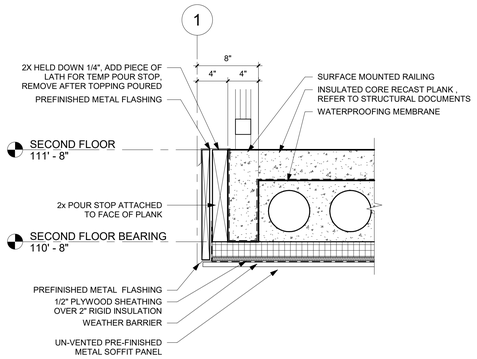
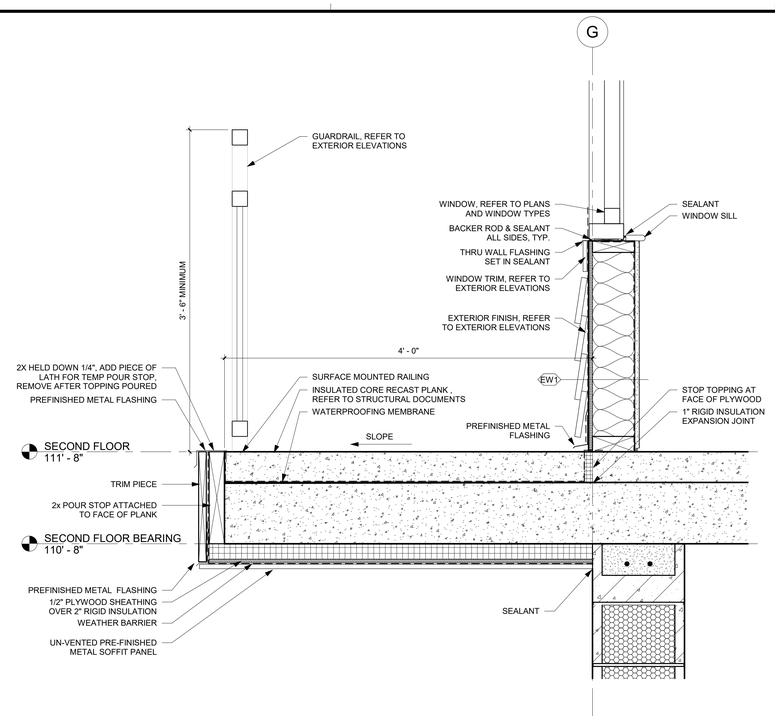
ENLARGED SECTIONS

SHEET

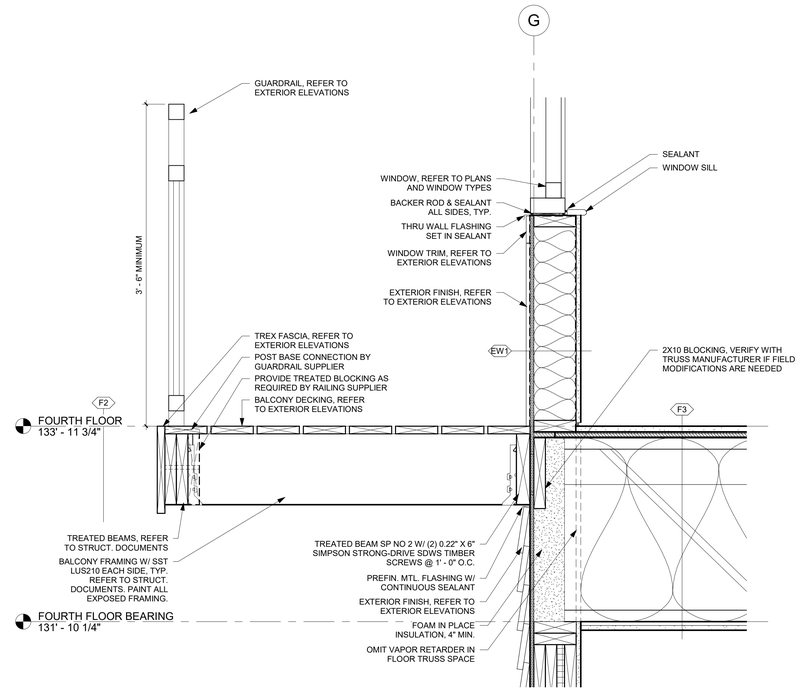
A3-24



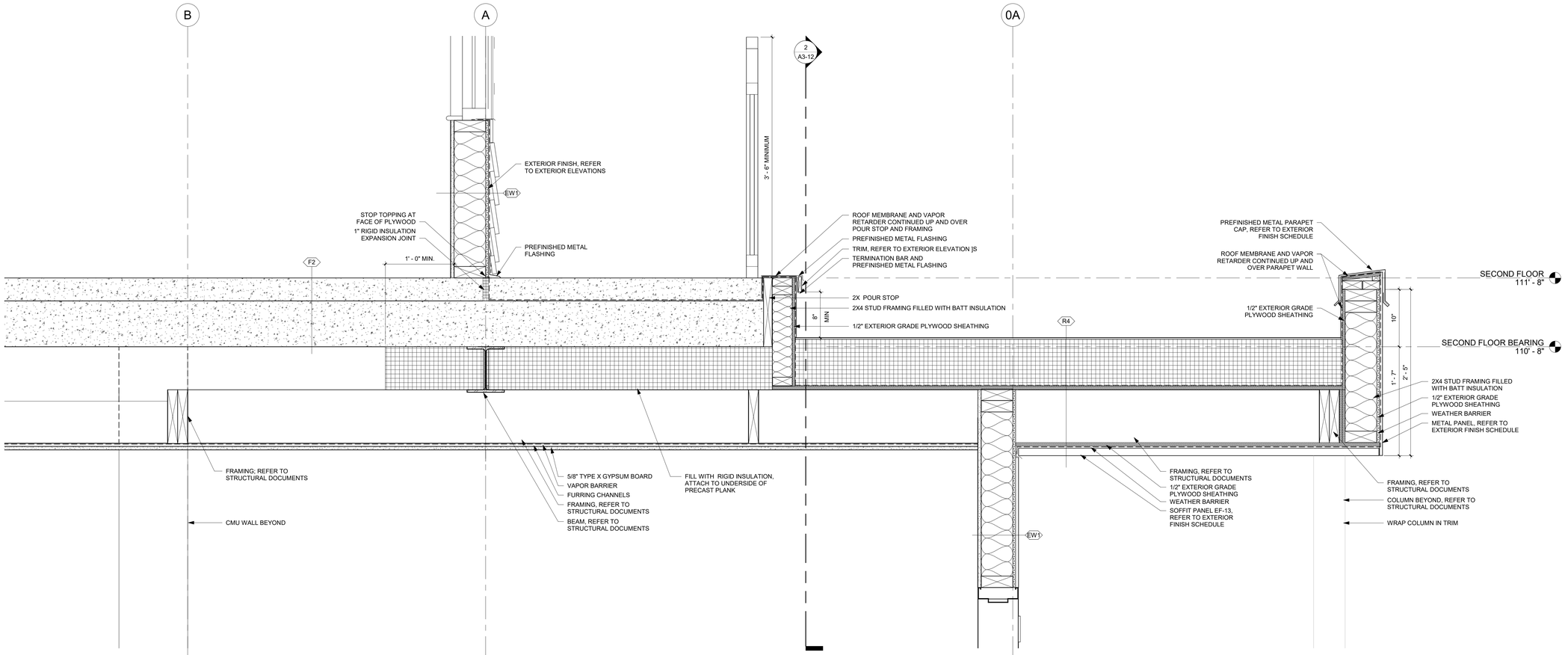
1 PATIO EDGE DETAIL UNIT U-201
1 1/2" = 1'-0"



2 PATIOS A, B AND C SECTION DETAIL
1 1/2" = 1'-0"



3 BALCONIES D, E AND F SECTION DETAIL
1 1/2" = 1'-0"



4 ENLARGED SECTION AT ENTRANCE CANOPY
1 1/2" = 1'-0"

REFERENCE SCALE
1" = 1"
0 1/4" 1/2" 1" 2"

9/15/2021 4:28:13 PM

PROJECT

5TH WARD RESIDENCES

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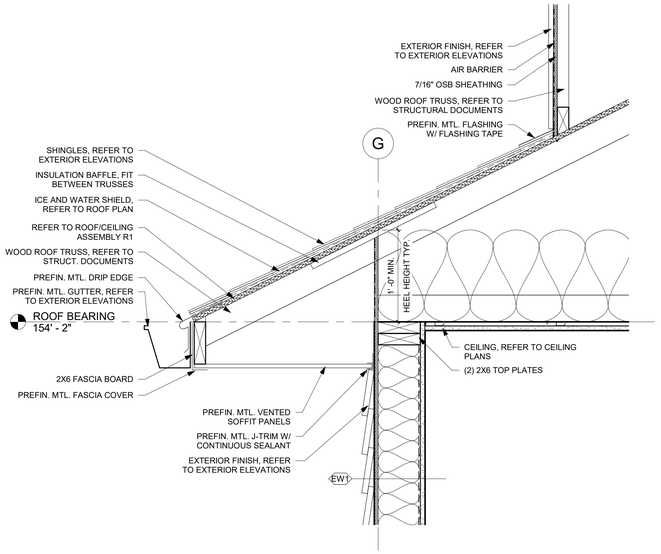
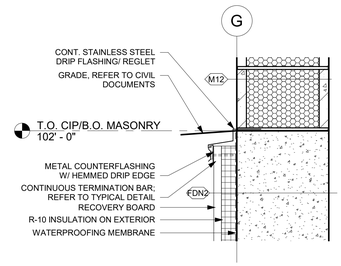
ENLARGED SECTIONS

SHEET

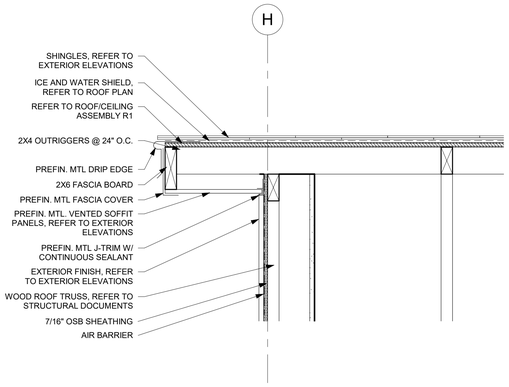
A3-25



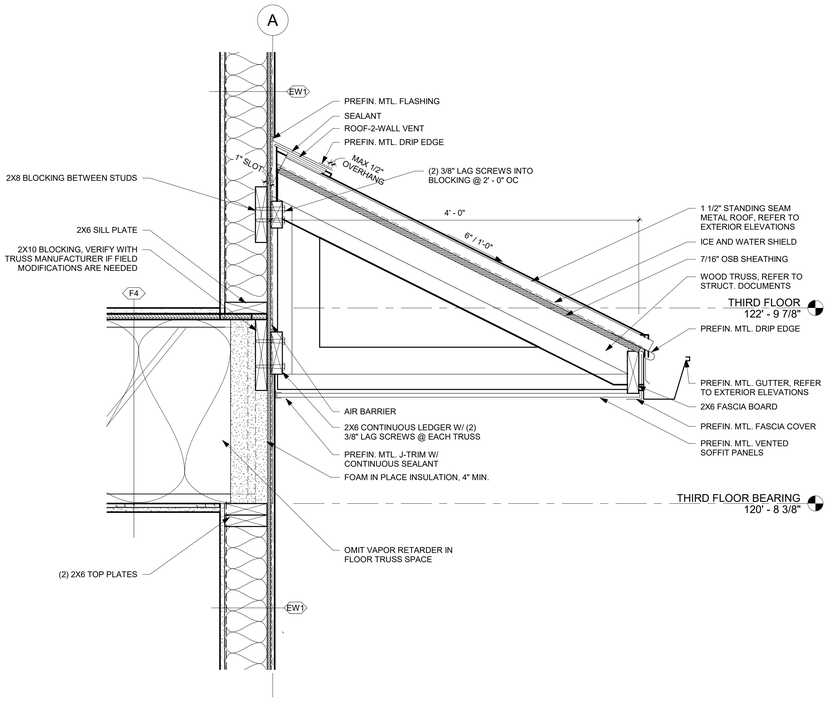
1 ROOF EAVE DETAIL
1 1/2" = 1'-0"



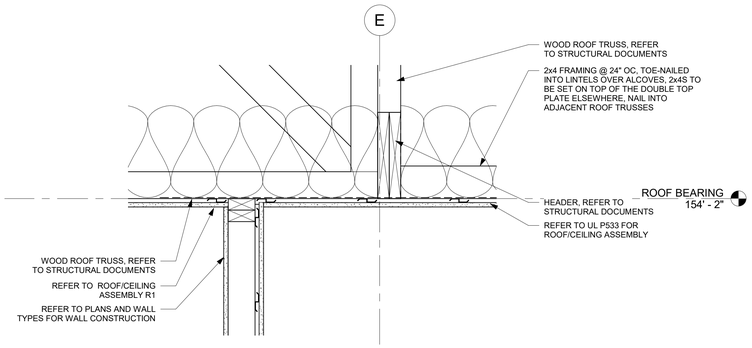
2 TERMINATION BAR DETAIL
1 1/2" = 1'-0"



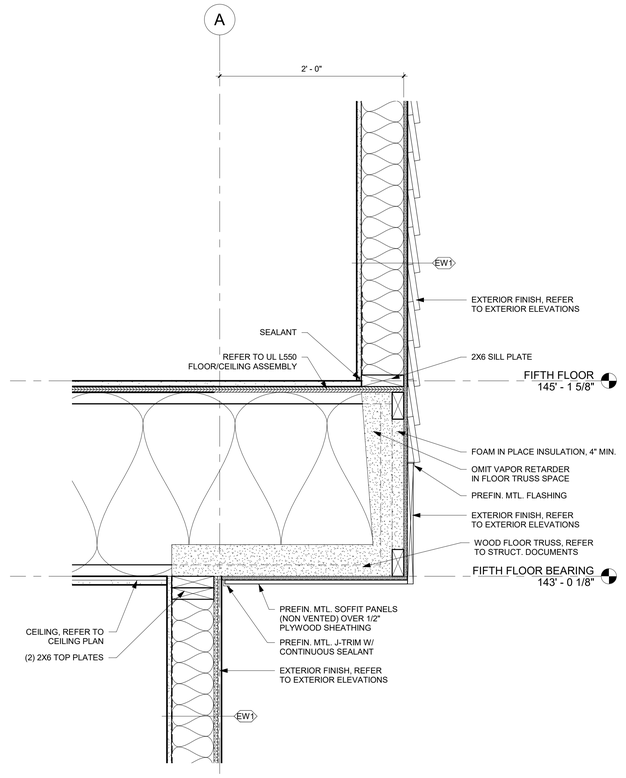
3 ROOF RAKE DETAIL
1 1/2" = 1'-0"



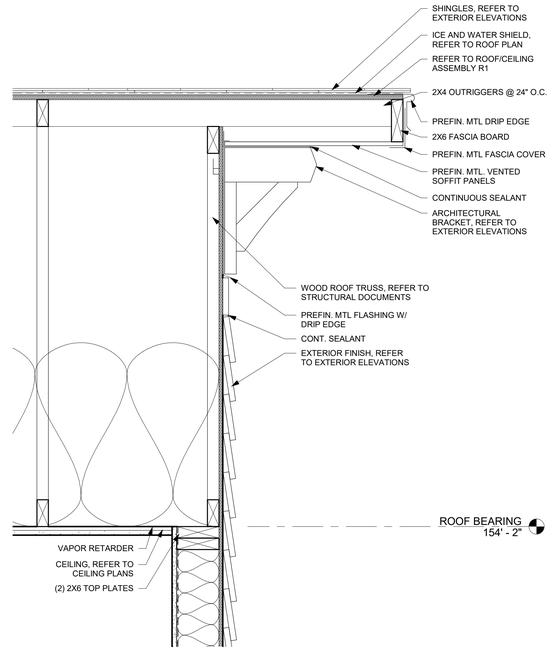
4 CANOPY DETAIL
1 1/2" = 1'-0"



5 ENLARGED SECTION AT CORRIDOR ROOF BEARING UNIT ENTRY
1 1/2" = 1'-0"



7 ENLARGED SECTION AT FOURTH FLOOR JOG
1 1/2" = 1'-0"



8 FOURTH FLOOR RAKE JOG DETAIL
1 1/2" = 1'-0"

6 SECTION AT FOURTH FLOOR JOG
1 1/2" = 1'-0"

REFERENCE SCALE
1" = 1'
0 1/4" 1/2" 1" 2"

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ISG

PROJECT

5TH WARD RESIDENCES

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ENLARGED SECTIONS

SHEET

A3-26

SHEET NOTES

1. ALL ALUMINUM STOREFRONT FRAME TO BE 4 1/2" THICK.
2. ALL EXTERIOR GLAZING TO BE INSULATED. REFER TO GLAZING SCHEDULE.
3. REFER TO WALL TYPE THICKNESS FOR HOLLOW METAL FRAME THROAT THICKNESS.
4. ALL HOLLOW METAL DOORS AND FRAMES TO BE PAINTED.
5. APPLY ADDITIONAL 3/4" TO DOOR ROUGH OPENING HEIGHT FOR DOORS LOCATED ON SECOND, THIRD, AND FOURTH FLOORS
6. COUNTERTOP MATERIAL BY OWNER INSTALLED BY CONTRACTOR
7. CASEWORK FINISH BY OWNER INSTALLED BY CONTRACTOR
8. ALL APPLIANCES ARE BY OWNER INSTALLED BY CONTRACTOR.
9. CASEWORK TYPE 176M IS INDICATING CASEWORK 176 MODIFIED TO ADD A DRAWER ABOVE THE CABINET DOOR.

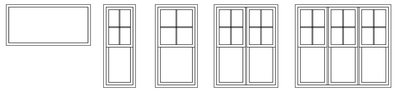
WINDOW SCHEDULE

MARK	WIDTH	HEIGHT	SILL HEIGHT	COMMENTS
W1	5' - 6"	2' - 8"	5' - 0 1/2"	
W2	2' - 1"	5' - 5"	2' - 3 1/2"	
W3	2' - 9"	5' - 5"		
W4	4' - 2"	5' - 5"		
W5	6' - 3"	5' - 5"	2' - 3 1/2"	

GLAZING SCHEDULE

MARK	MATERIAL	THICKNESS	COMMENTS
GL-1	NON-TEMPERED	1/4"	INTERIOR WINDOWS, UNLESS NOTED OTHERWISE
GL-2	TEMPERED	1/4"	INTERIOR DOORS AND INTERIOR WINDOWS WITH AN EDGE WITHIN A 24" ARC OF EITHER VERTICAL EDGE OF A DOOR IN A CLOSED POSITION. REFER TO FLOOR PLANS FOR TEMPERED GLASS LOCATIONS
IG-1	INSULATED, TEMPERED	1"	EXTERIOR DOORS AND EXTERIOR WINDOWS WITH AN EDGE WITHIN A 24" ARC OF EITHER VERTICAL EDGE OF A DOOR IN A CLOSED POSITION. REFER TO FLOOR PLANS FOR TEMPERED GLASS LOCATIONS
IG-2	INSULATED, NON-TEMPERED	1"	EXTERIOR WINDOWS, UNLESS NOTED OTHERWISE

WINDOW TYPES

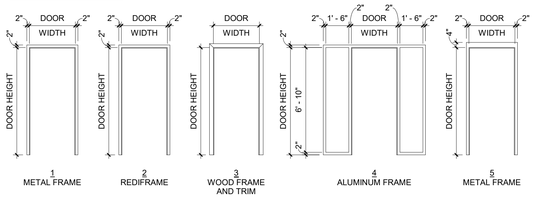


W1 W2 W3 W4 W5

DOOR SCHEDULE

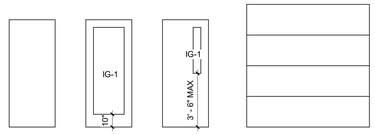
MARK	ROOM NAME	WIDTH	HEIGHT	DOOR TYPE	DOOR MATERIAL	FRAME TYPE	FRAME MATERIAL	GLAZING TYPE	HARDWARE GROUP	FIRE RATING	COMMENTS
101	LOBBY	3' - 0"	7' - 0"	FG	ALUMINUM	4	ALUMINUM	IG-1			TEMPERED IG
103	RISER/MECH	4' - 0"	6' - 8"	FL	HOLLOW METAL	1	HOLLOW METAL	-			ACCESSIBLE THRESHOLD
202	MECH	3' - 0"	6' - 8"	FL	STEEL INSULATED	2	REDIFRAME	-		20 MIN	
302	MECH	3' - 0"	6' - 8"	FL	STEEL INSULATED	2	REDIFRAME	-		20 MIN	
402	MECH	3' - 0"	6' - 8"	FL	STEEL INSULATED	2	REDIFRAME	-		20 MIN	
502	MECH	3' - 0"	6' - 8"	FL	STEEL INSULATED	2	REDIFRAME	-		20 MIN	
EL2	ELEV	3' - 6"	7' - 0"	FL	HOLLOW METAL	5	HOLLOW METAL			90 MIN	MAGNETIC HOLD OPEN, ACCESSIBLE THRESHOLD, COORDINATE SIZE AND LOCATION WITH ELEVATOR SUPPLIER
EL3	ELEV	3' - 6"	7' - 0"	FL	HOLLOW METAL	5	HOLLOW METAL			90 MIN	MAGNETIC HOLD OPEN, ACCESSIBLE THRESHOLD, COORDINATE SIZE AND LOCATION WITH ELEVATOR SUPPLIER
EL4	ELEV	3' - 6"	7' - 0"	FL	HOLLOW METAL	5	HOLLOW METAL			90 MIN	MAGNETIC HOLD OPEN, ACCESSIBLE THRESHOLD, COORDINATE SIZE AND LOCATION WITH ELEVATOR SUPPLIER
EL5	ELEV	3' - 6"	7' - 0"	FL	HOLLOW METAL	5	HOLLOW METAL			90 MIN	MAGNETIC HOLD OPEN, ACCESSIBLE THRESHOLD, COORDINATE SIZE AND LOCATION WITH ELEVATOR SUPPLIER
SA1A	STAIR A	3' - 6"	6' - 8"	NL	HOLLOW METAL	5	HOLLOW METAL	GL-2		90 MIN	
SA1B	STAIR A	3' - 0"	7' - 0"	FG	ALUMINUM	4	ALUMINUM	IG-1			TEMPERED IG
SA2	STAIR A	3' - 6"	6' - 8"	NL	STEEL INSULATED	2	REDIFRAME	GL-2		90 MIN	PANIC HARDWARE
SA3	STAIR A	3' - 6"	6' - 8"	NL	STEEL INSULATED	2	REDIFRAME	GL-2		90 MIN	
SA4	STAIR A	3' - 6"	6' - 8"	NL	STEEL INSULATED	2	REDIFRAME	GL-2		90 MIN	
SA5	STAIR A	3' - 6"	6' - 8"	NL	STEEL INSULATED	2	REDIFRAME	GL-2		90 MIN	
SB1A	STAIR B	3' - 6"	6' - 8"	NL	HOLLOW METAL	5	HOLLOW METAL	GL-2		90 MIN	PANIC HARDWARE, ACCESSIBLE THRESHOLD
SB1B	STAIR B	3' - 6"	7' - 0"	FL	HOLLOW METAL	1	HOLLOW METAL	GL-2			
SB1C	STAIR B	3' - 6"	6' - 8"	NL	HOLLOW METAL	5	HOLLOW METAL	GL-2		90 MIN	
SB2	STAIR B	3' - 6"	6' - 8"	NL	STEEL INSULATED	2	REDIFRAME	GL-2		90 MIN	PANIC HARDWARE
SB3	STAIR B	3' - 6"	6' - 8"	NL	STEEL INSULATED	2	REDIFRAME	GL-2		90 MIN	PANIC HARDWARE
SB4	STAIR B	3' - 6"	6' - 8"	NL	STEEL INSULATED	2	REDIFRAME	GL-2		90 MIN	PANIC HARDWARE
SB5	STAIR B	3' - 6"	6' - 8"	NL	STEEL INSULATED	2	REDIFRAME	GL-2		90 MIN	PANIC HARDWARE

FRAME TYPES



1 METAL FRAME
2 REDIFRAME
3 WOOD FRAME AND TRIM
4 ALUMINUM FRAME
5 METAL FRAME

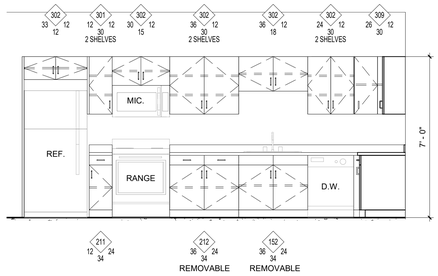
DOOR TYPES



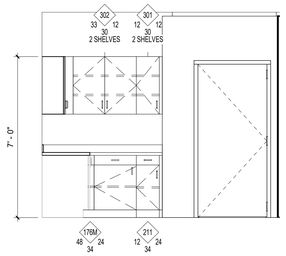
FL FLUSH
FG FULL GLASS
NL NARROW LITE
OHD OVERHEAD DOOR

UNIT DOOR SCHEDULE

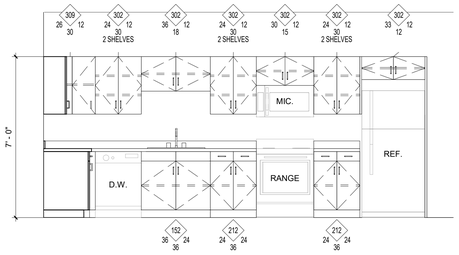
MARK	ROOM NAME	WIDTH	HEIGHT	DOOR TYPE	DOOR MATERIAL	FRAME TYPE	FRAME MATERIAL	HARDWARE GROUP	FIRE RATING	COMMENTS
A	ENTRY	3' - 0"	6' - 8"	FL	STEEL INSULATED	2	REDIFRAME		20 MIN	
B	BATHROOM	3' - 0"	6' - 8"	FL	WOOD	3	WOOD			PREHUNG
C	CLOSET	5' - 0"	6' - 8"	FL	WOOD	3	WOOD			PREHUNG
D	BEDROOM	3' - 0"	6' - 8"	FL	WOOD	3	WOOD			PREHUNG
E	BALCONY	3' - 0"	6' - 8"	FG	STEEL INSULATED	1	WOOD			PREHUNG, ACCESSIBLE THRESHOLD W/ WHITE INTEGRATED BLINDS
F	BALCONY	3' - 0"	6' - 8"	FG	STEEL INSULATED	1	WOOD			PREHUNG, ACCESSIBLE THRESHOLD W/ WHITE INTEGRATED BLINDS



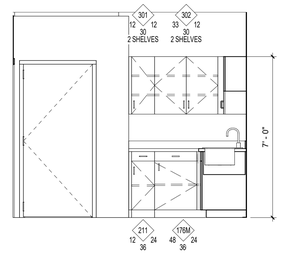
1 STUDIO TYPE A KITCHEN ELEVATION
3/8" = 1'-0"



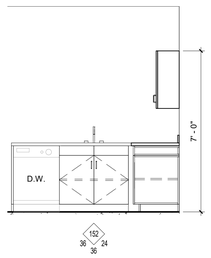
2 STUDIO TYPE A KITCHEN ELEVATION
3/8" = 1'-0"



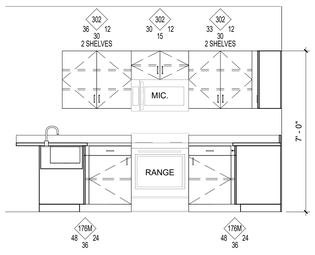
3 TYPICAL STUDIO KITCHEN
3/8" = 1'-0"



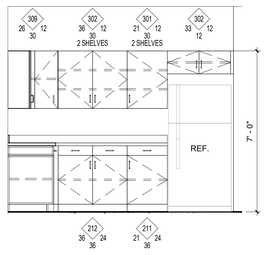
4 TYPICAL STUDIO KITCHEN
3/8" = 1'-0"



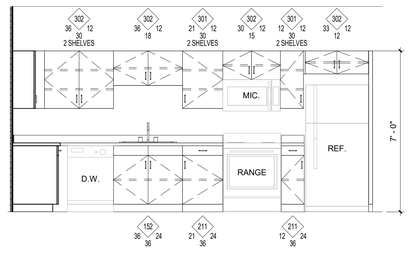
5 TYPICAL KITCHEN
3/8" = 1'-0"



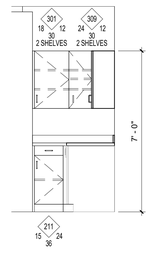
6 TYPICAL KITCHEN
3/8" = 1'-0"



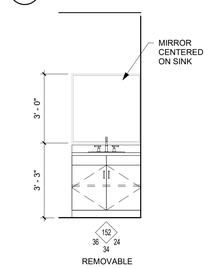
7 TYPICAL KITCHEN
3/8" = 1'-0"



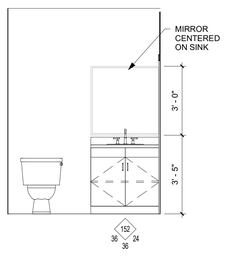
8 1 BEDROOM W/ NOOK KITCHEN
3/8" = 1'-0"



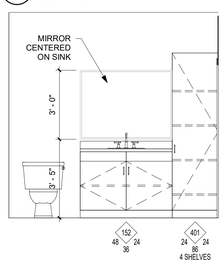
9 1 BEDROOM W/ NOOK KITCHEN
3/8" = 1'-0"



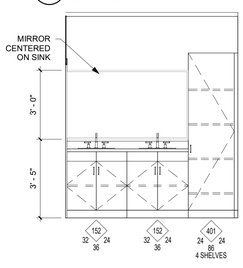
10 BATHROOM CASEWORK TYPE A
3/8" = 1'-0"



11 TYPICAL BATHROOM CASEWORK
3/8" = 1'-0"



12 TYPICAL BATHROOM CASEWORK
3/8" = 1'-0"



13 TYPICAL BATHROOM CASEWORK
3/8" = 1'-0"

REFERENCE SCALE
1" = 1'
0 1/4" 1/2" 1" 2"

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ISG

PROJECT

5TH WARD RESIDENCES

72 UNIT APARTMENT BUILDING

LA CROSSE WISCONSIN

REVISION SCHEDULE

DATE	DESCRIPTION	BY

PROJECT NO.	20-24403
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DRAWN BY	KAP
DESIGNED BY	KMB
REVIEWED BY	KMB
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CLIENT PROJECT NO.	

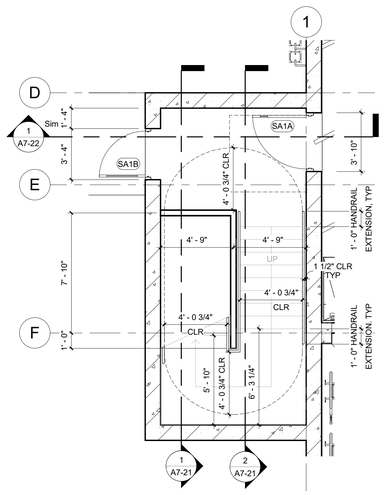
TITLE

INTERIOR ELEVATIONS, DOOR SCHEDULE, DOOR AND FRAME TYPES

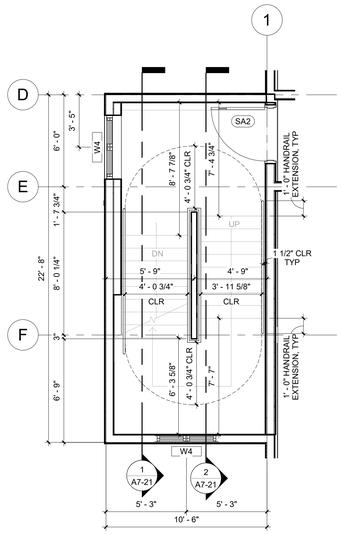
SHEET

A4-11

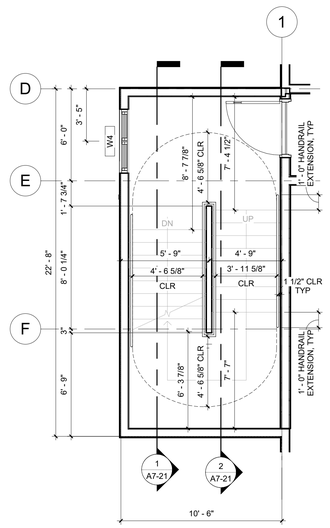
KEYNOTE LEGEND



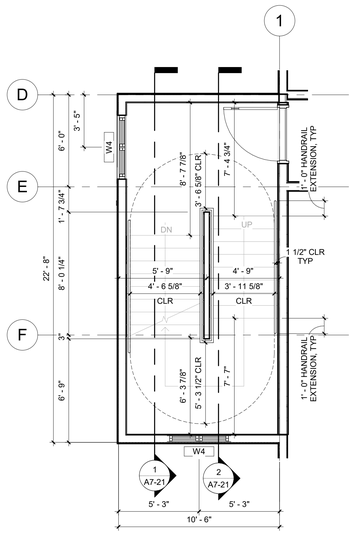
1 STAIR A GROUND/PARKING LEVEL FLOOR PLAN
1/4" = 1'-0"



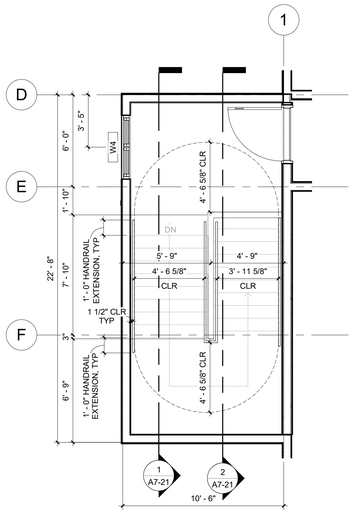
2 STAIR A SECOND FLOOR PLAN
1/4" = 1'-0"



3 STAIR A THIRD FLOOR PLAN
1/4" = 1'-0"



4 STAIR A FOURTH FLOOR PLAN
1/4" = 1'-0"



5 STAIR A FIFTH FLOOR PLAN
1/4" = 1'-0"

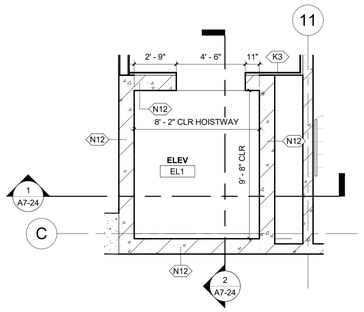
6 STAIR B GROUND/PARKING LEVEL FLOOR PLAN
1/4" = 1'-0"

7 STAIR B SECOND FLOOR PLAN
1/4" = 1'-0"

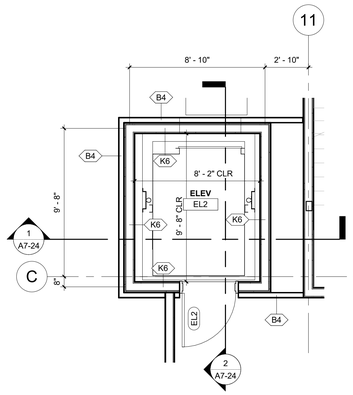
8 STAIR B THIRD FLOOR PLAN
1/4" = 1'-0"

9 STAIR B FOURTH FLOOR PLAN
1/4" = 1'-0"

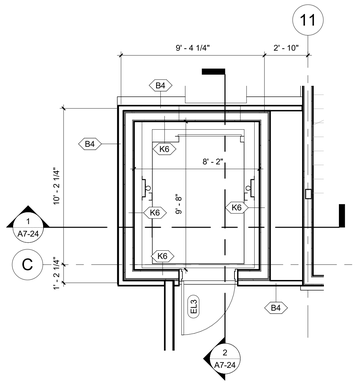
10 STAIR B FIFTH FLOOR PLAN
1/4" = 1'-0"



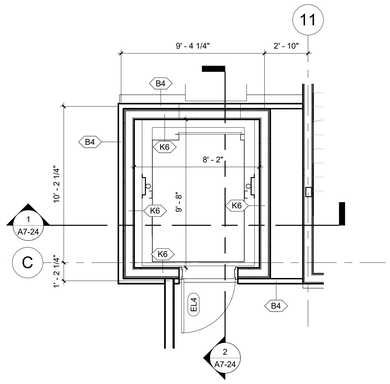
11 ELEVATOR LEVEL FLOOR PLAN
1/4" = 1'-0"



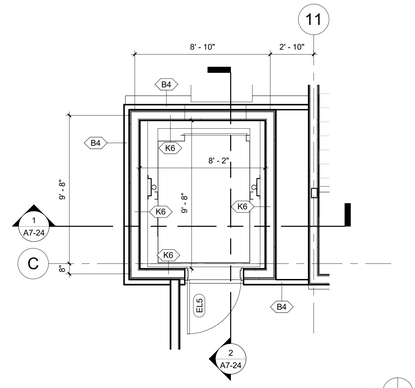
12 ELEVATOR SECOND FLOOR PLAN
1/4" = 1'-0"



13 ELEVATOR THIRD FLOOR PLAN
1/4" = 1'-0"



14 ELEVATOR FOURTH FLOOR PLAN
1/4" = 1'-0"



15 ELEVATOR FIFTH FLOOR PLAN
1/4" = 1'-0"

REFERENCE SCALE
1" = 1'
0 1/4" 1/2" 1' 2'

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PROJECT

5TH WARD RESIDENCES

72 UNIT APARTMENT BUILDING

LA CROSSE WISCONSIN

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PROJECT NO.	20-24403
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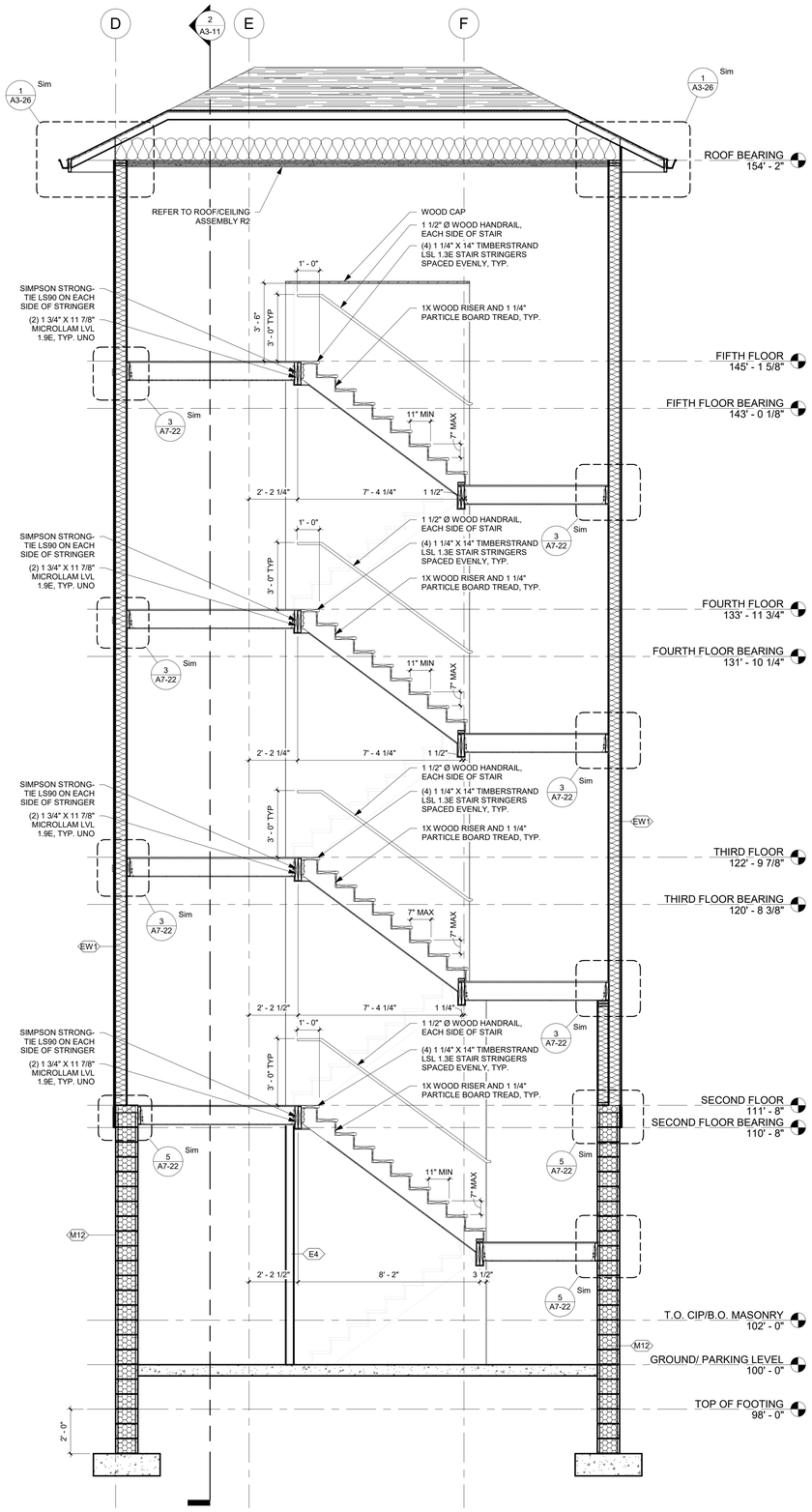
TITLE

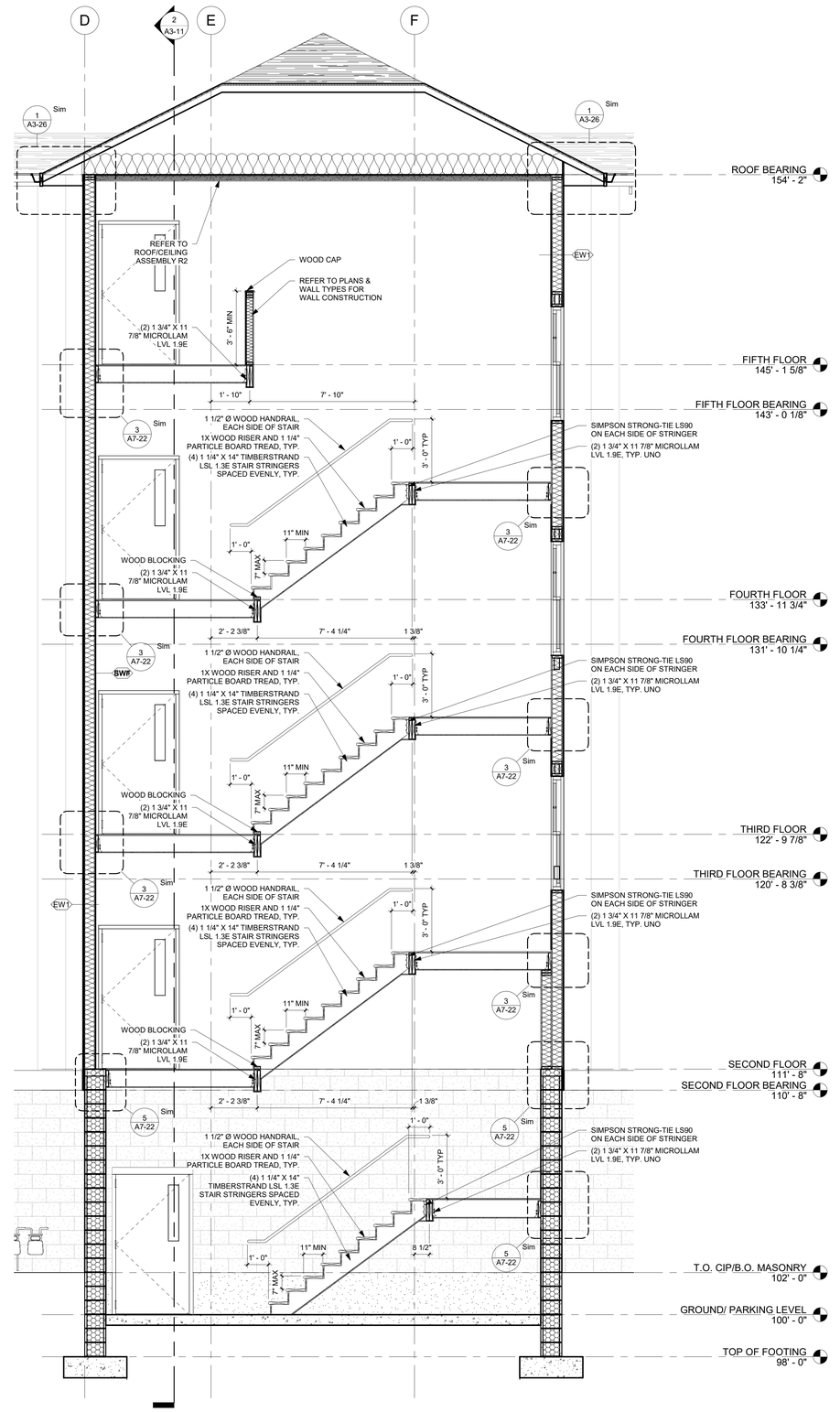
ENLARGED VERTICAL CIRCULATION PLANS

SHEET

A7-11



1 STAIR A SECTION
3/8" = 1'-0"



2 STAIR A SECTION
3/8" = 1'-0"

REFERENCE SCALE
1" = 1'
0 1/4" 1/2" 1" 2'

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PROJECT

5TH WARD RESIDENCES

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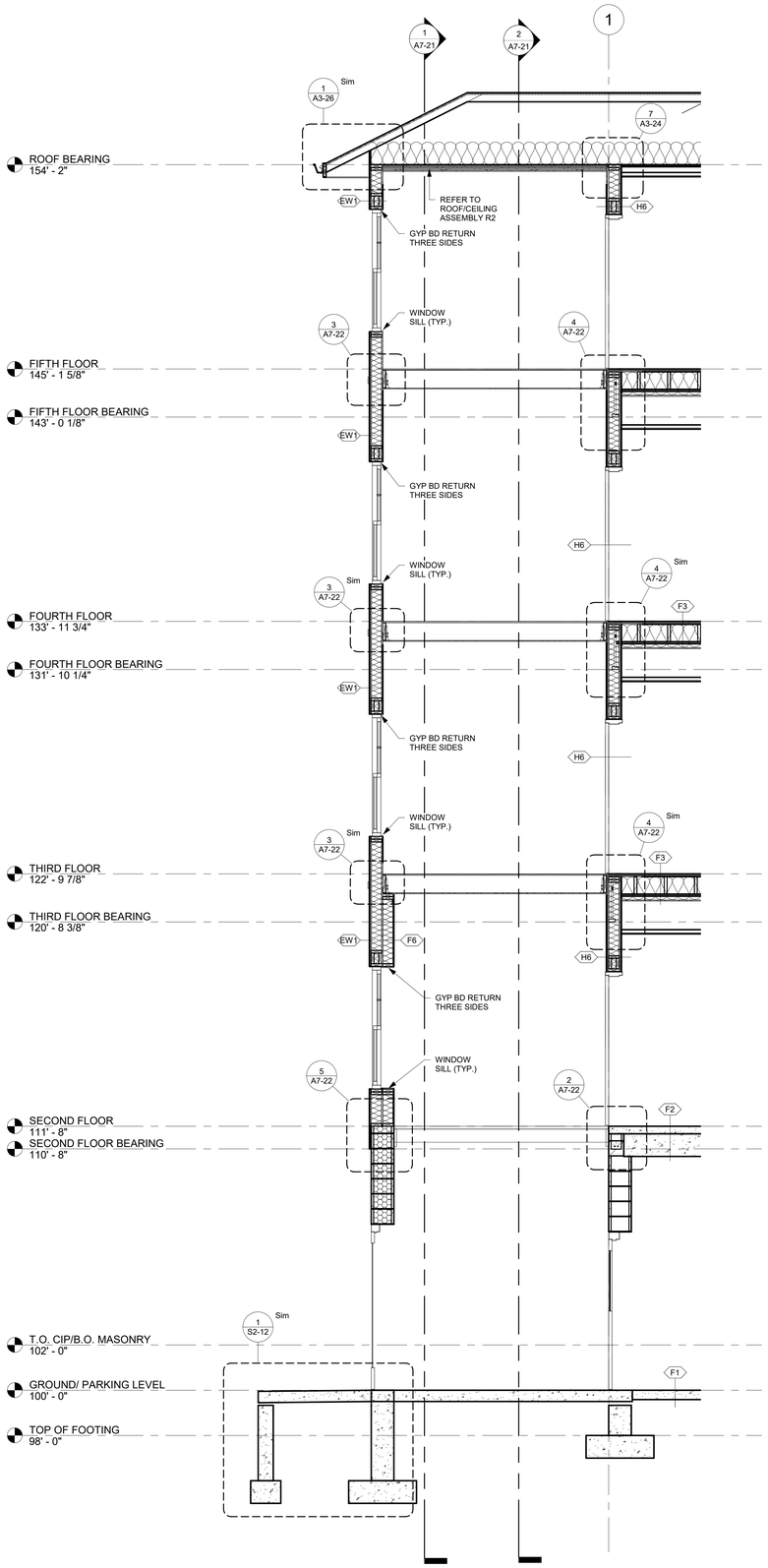
TITLE

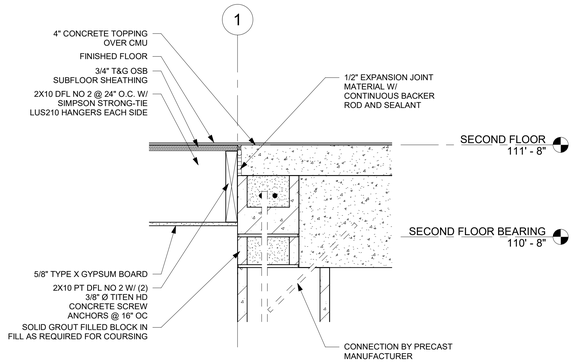
STAIR A VERTICAL CIRCULATION SECTIONS

SHEET

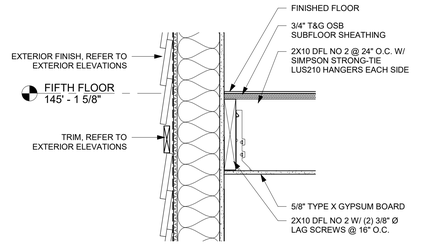
A7-21



1 WALL SECTION AT STAIR A
3/8" = 1'-0"

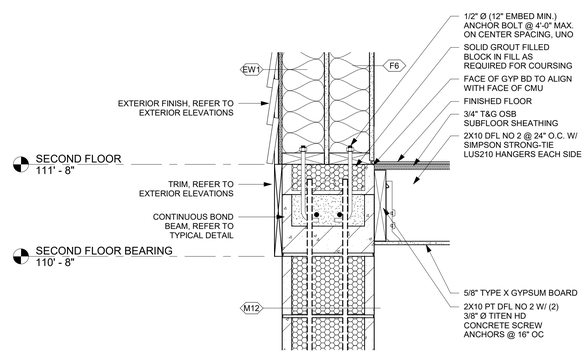


2 WALL SECTION AT STAIR
1 1/2" = 1'-0"

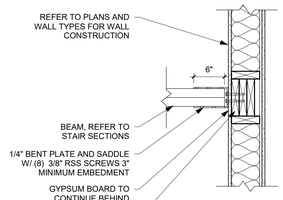


3 WALL SECTION AT STAIR A CONNECTION TO EW1
1 1/2" = 1'-0"

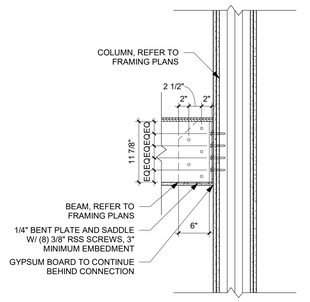
4 WALL SECTION AT STAIR A CONNECTION
1 1/2" = 1'-0"



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



6 STAIR BEAM/COLUMN CONNECTION PLAN
1" = 1'-0"



7 STAIR BEAM/COLUMN CONNECTION SECTION
1" = 1'-0"

REFRENCE SCALE
1" = 1'
0 1/4" 1/2" 1" 2"

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PROJECT

5TH WARD RESIDENCES

72 UNIT APARTMENT BUILDING

LA CROSSE WISCONSIN

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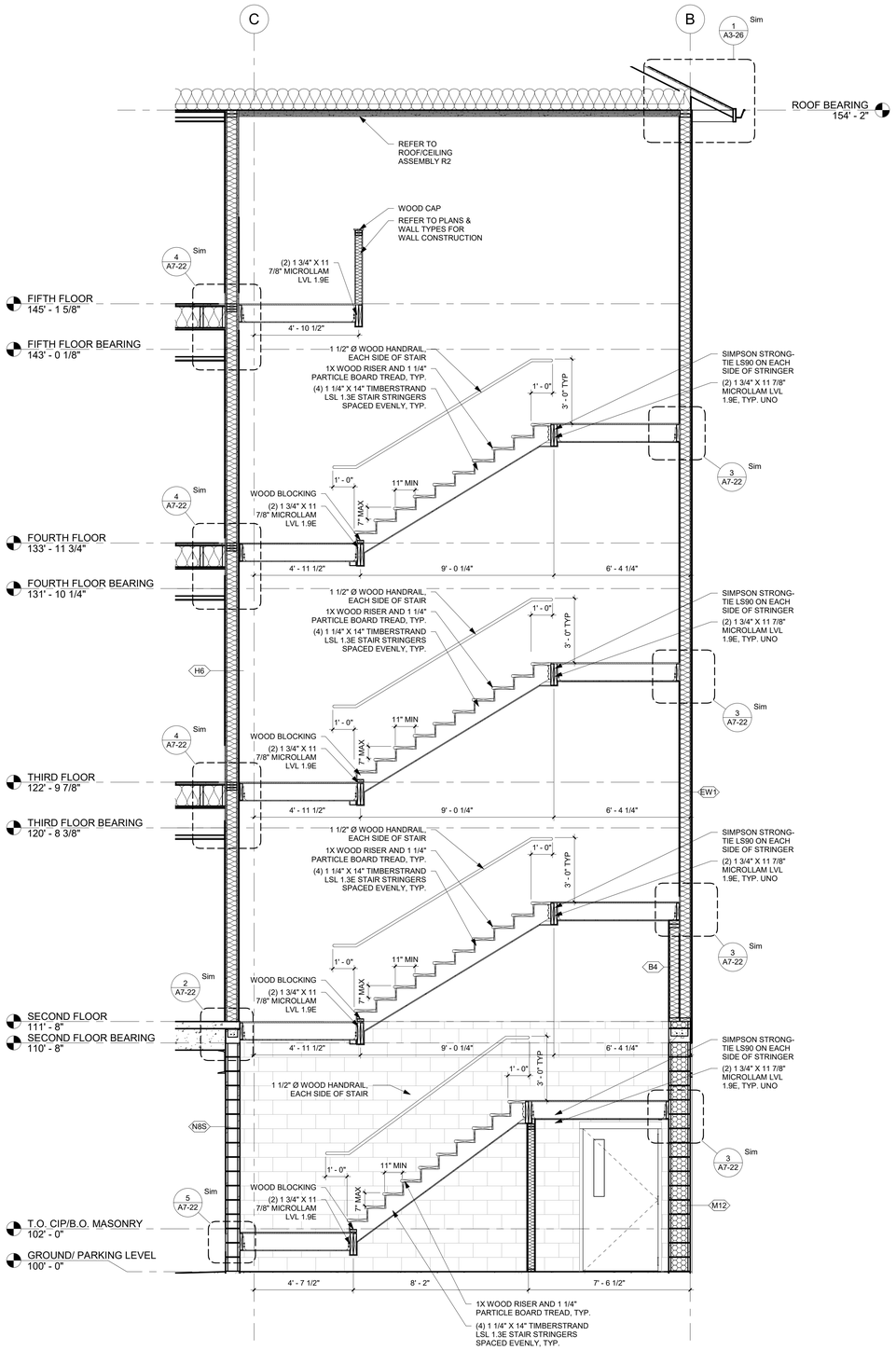
CLIENT PROJECT NO.	

TITLE

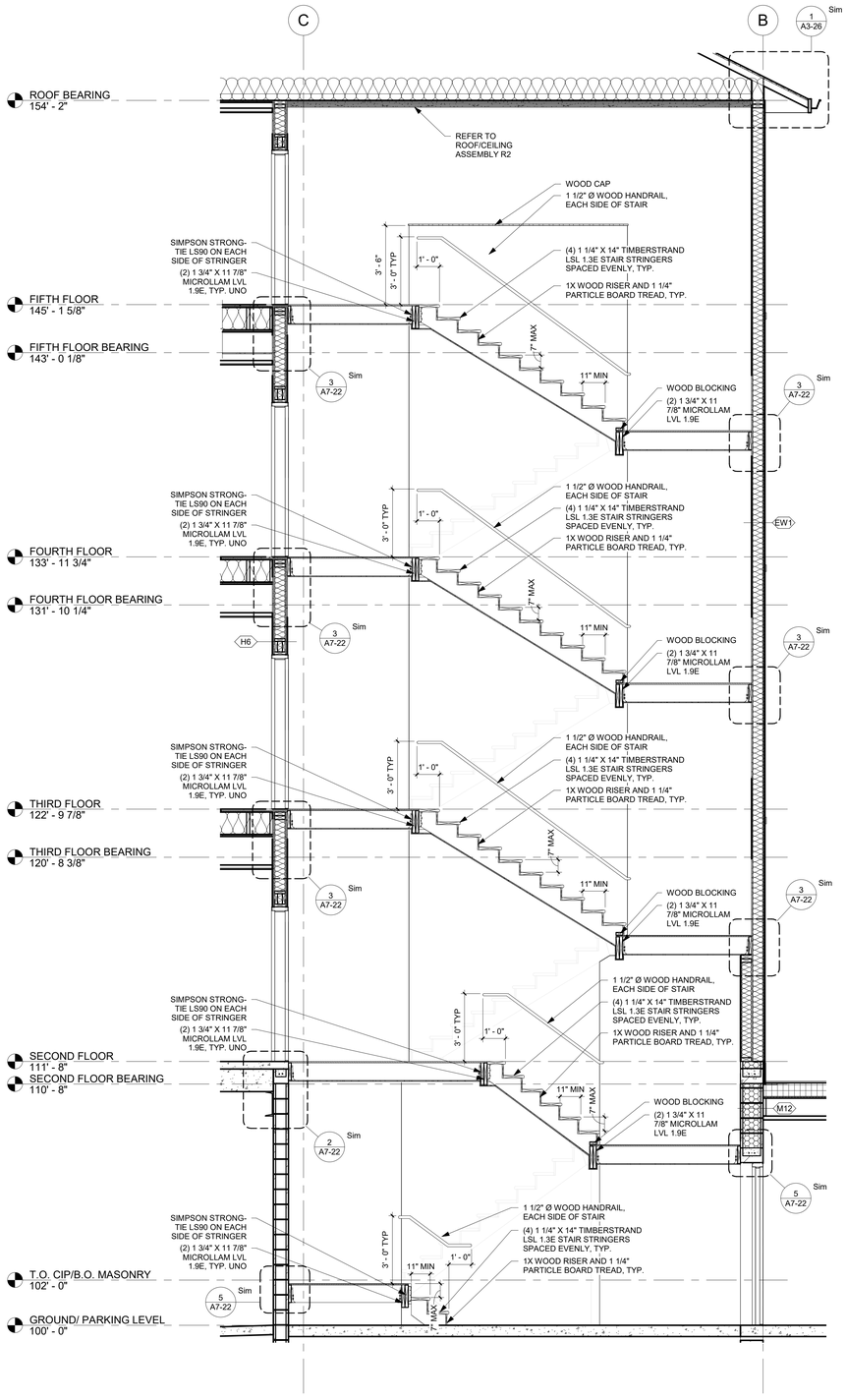
STAIR A VERTICAL CIRCULATION SECTIONS AND DETAILS

SHEET

A7-22



1 STAIR B SECTION
3/8" = 1'-0"



2 STAIR B SECTION
3/8" = 1'-0"

REFERENCE SCALE
1" = 1'
0 1/4" 1/2" 1" 2"

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PROJECT

5TH WARD RESIDENCES

72 UNIT APARTMENT BUILDING

LA CROSSE WISCONSIN

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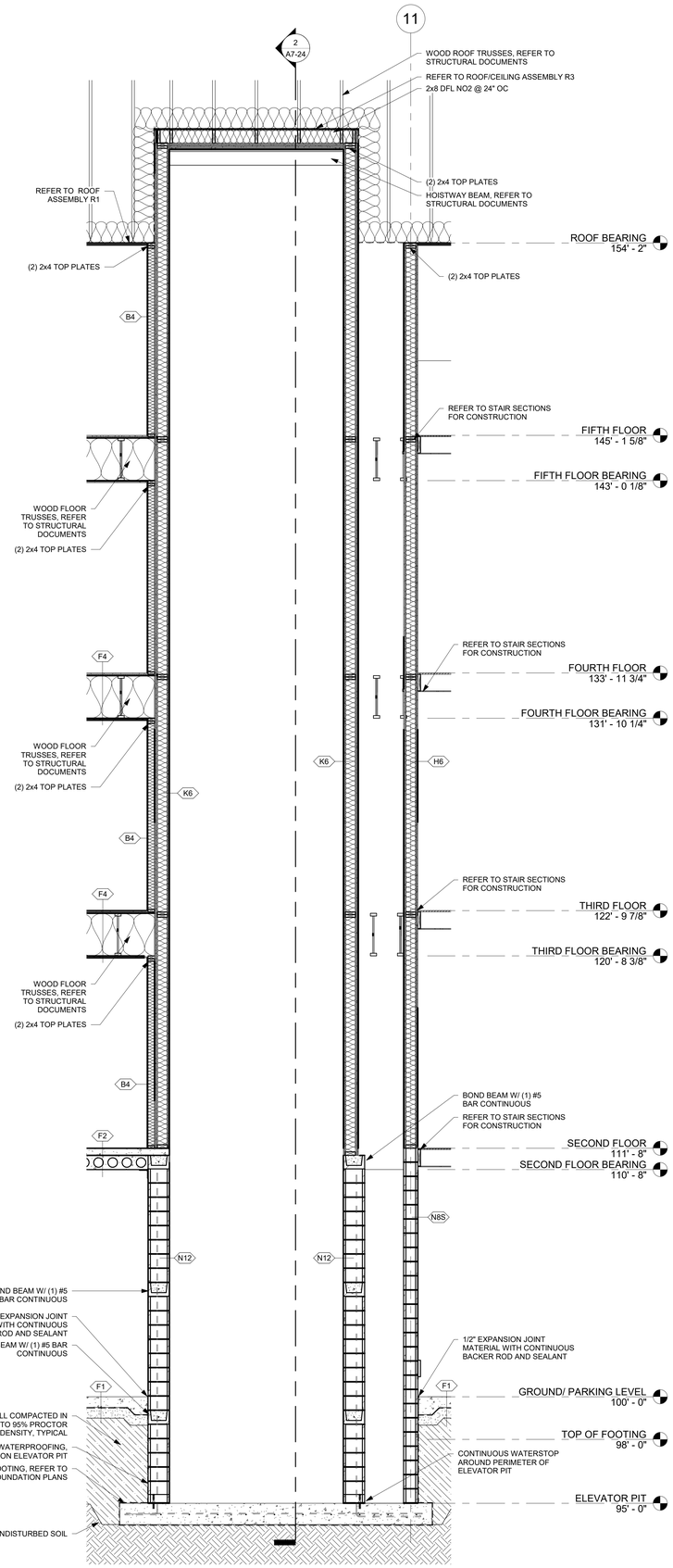
CLIENT PROJECT NO.	

TITLE

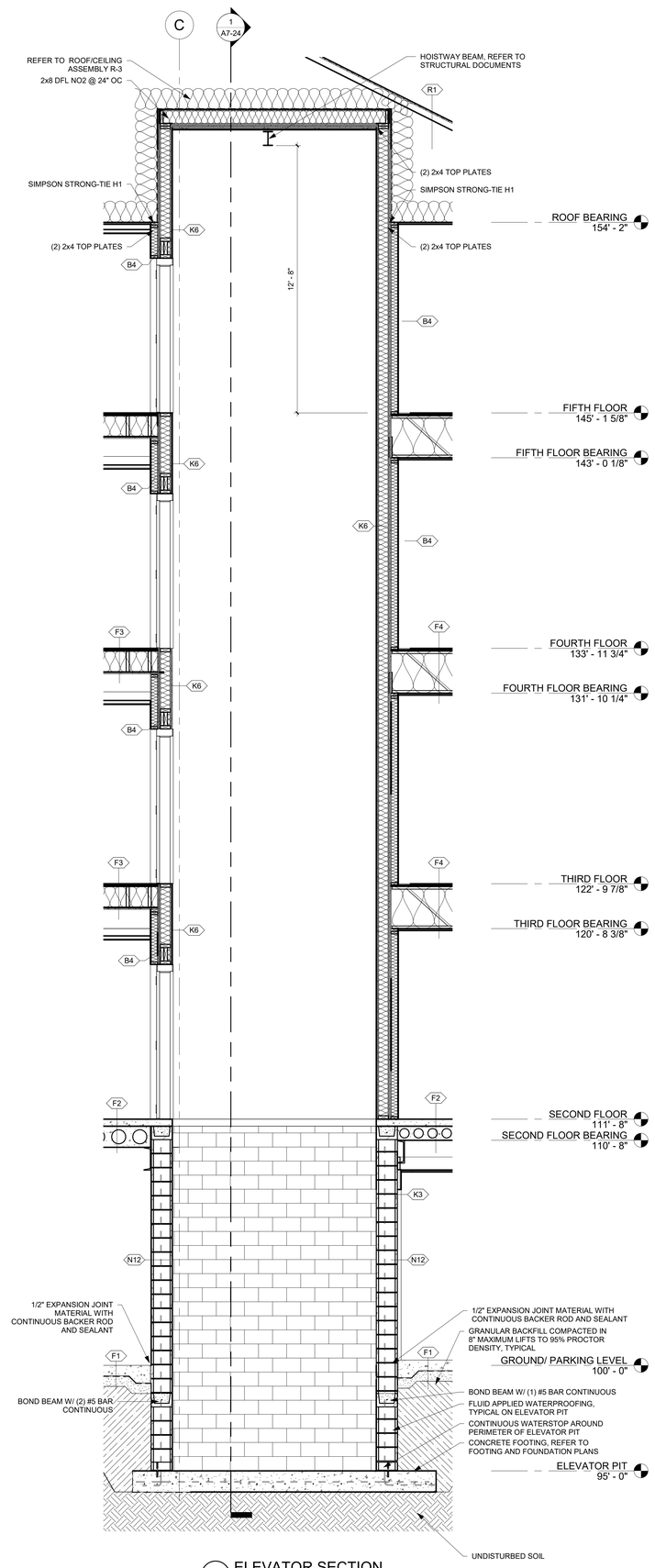
STAIR B VERTICAL CIRCULATION SECTIONS

SHEET

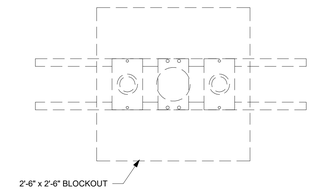
A7-23



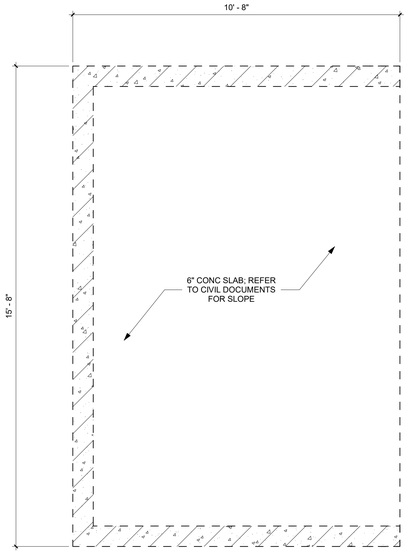
1 ELEVATOR SECTION
3/8" = 1'-0"



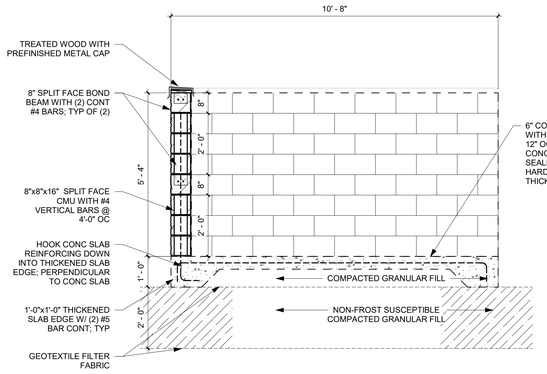
2 ELEVATOR SECTION
3/8" = 1'-0"



3 TYPICAL PLUNGER HOLE DETAIL
1" = 1'-0"



4 TRASH ENCLOSURE
1/2" = 1'-0"



5 SECTION AT TRASH ENCLOSURE
1/2" = 1'-0"

REFERENCE SCALE
1" = 1'
0 1/4" 1/2" 1" 2"

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PROJECT

5TH WARD RESIDENCES

72 UNIT APARTMENT BUILDING

LA CROSSE WISCONSIN

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ELEVATOR VERTICAL CIRCULATION SECTIONS AND TRASH ENCLOSURE DETAILS

SHEET

A7-24

GENERAL NOTES

A. NOTES AND DETAILS ON THE STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER THESE STANDARD STRUCTURAL NOTES. TYPICAL DETAILS SHALL BE USED WHENEVER APPLICABLE.

B. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK; AND THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED, IN WRITING, OF ANY DISCREPANCIES.

C. IN NO CASE SHALL DIMENSIONS BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON THE STRUCTURAL DRAWINGS.

D. THE CONTRACTOR SHALL DETERMINE THE LOCATION OF UTILITY SERVICES IN THE AREA TO BE EXCAVATED BEFORE BEGINNING EXCAVATION.

E. NO PIPES, DUCTS, SLEEVES, CHASES, ETC., SHALL BE PLACED IN SLABS OR WALLS, NOR SHALL ANY STRUCTURAL MEMBER BE CUT FOR PIPES, DUCTS, ETC.

F. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL TEMPORARY SHORING AND BRACING OF EXISTING STRUCTURAL ELEMENTS DURING CONSTRUCTION. ALL SHORING SHALL BE ADEQUATE TO SUPPORT ALL STRUCTURAL LOADS DURING THE REMOVAL OF THE EXISTING STRUCTURE. TEMPORARY SHORING MUST REMAIN IN PLACE UNTIL ALL NEW STRUCTURAL ELEMENTS ARE SECURED INTO PLACE PER CONSTRUCTION DOCUMENTS.

G. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THE FOLLOWING CODES AND MANUALS (LATEST EDITION):
1. INTERNATIONAL BUILDING CODE (IBC).
2. AMERICAN CONCRETE INSTITUTE (ACI).
3. CONCRETE REINFORCING STEEL INSTITUTE (CRSI) MANUAL OF STANDARD PRACTICE (FOR PLACING AND DETAILING OF ALL REINFORCING).
4. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC).
5. AMERICAN WELDING SOCIETY (AWS) STANDARDS FOR WELDING AS MODIFIED BY AISC SPECIFICATION.
6. MASONRY STANDARDS JOINT COMMITTEE (MSJC)
7. AMERICAN FOREST & PAPER ASSOCIATION NATIONAL DESIGN SPECIFICATION (AF & PA NDS)

DESIGN LOADS CRITERIA

A. CODES USED:
1. 2015 INTERNATIONAL BUILDING CODE
2. 2010 AMERICAN SOCIETY OF CIVIL ENGINEERS STANDARD 7 (ASCE 7-10)

B. WIND LOAD CRITERIA:
1. ULTIMATE WIND SPEED. V = 115 MPH (3 SECOND GUST)
2. NOMINAL WIND SPEED, V = 90 MPH (3 SECOND GUST)
3. WIND RISK CATEGORY: II
4. WIND LOAD EXPOSURE: C
5. INTERNAL PRESSURE COEFFICIENT: +/- 0.18 (ENCLOSED BUILDING)
6. WIND TOPOGRAPHIC FACTOR: K_{ZT} = 1.0
7. C & C WIND WALL PRESSURE: REFER TO COMPONENT AND CLADDING WIND PRESSURE TABLE
8. WIND NET UPLIFT: 17.9 PSF (NOMINAL)

C. SNOW LOAD CRITERIA:
1. GROUND SNOW LOAD, P_G = 40 PSF
2. FLAT-ROOF SNOW LOAD (BALANCED), P_F = 31 PSF
3. FLAT-ROOF SNOW LOAD (UNHEATED), P_F = 33.6 PSF
4. SNOW LOAD IMPORTANCE FACTOR, I = 1.0
5. SLOPE FACTOR, C_S = 1.0
6. THERMAL FACTOR, C_T = 1.1
7. THERMAL FACTOR (UNHEATED), C_T = 1.2
8. SNOW EXPOSURE FACTOR, C_E = 1.0
9. UNBALANCED SNOW LOAD: ON PLAN IF APPLICABLE

D. EARTHQUAKE LOAD CRITERIA
1. SEISMIC IMPORTANCE FACTOR: I = 1.0
2. MAPPED SPECTRAL RESPONSE ACCELERATIONS:
   - S_S = 5.3% g
   - S_1 = 3.6% g
3. SOIL SITE CLASS: D
4. SPECTRAL RESPONSE COEFFICIENT:
   - S_{DS} = 0.057
   - S_{D1} = 0.058
5. SEISMIC DESIGN CATEGORY = A
6. SEISMIC FORCE RESISTING SYSTEM: LIGHT FRAME WOOD WALLS WITH STRUCTURAL WOOD SHEAR PANELS
7. SEISMIC RESPONSE COEFFICIENT, C_S = 0.010
8. RESPONSE MODIFICATION FACTOR, R = 7
9. OVER-STRENGTH FACTOR: Ω = 2
10. DESIGN BASE SHEAR, V = 0.010W
11. ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL-FORCE ANALYSIS

E. LIVE LOADS
1. ROOF: 20 PSF
2. FLOOR: 50 PSF
3. STAIR ASSEMBLIES: 100 PSF
4. RAILING: 200 LBS AT ANY POINT OR 50 PLF, WHICHEVER PRODUCES MAXIMUM LOAD EFFECT
5. PARTITIONS: 15 PSF
6. LOBBIES AND FIRST FLOOR CORRIDORS: 100 PSF
7. BALCONIES: 75 PSF
8. RESIDENTIAL AREAS EXCEPT BALCONIES: 40 PSF

F. DEAD LOADS
1. ROOF: 20 PSF TOTAL (10 PSF TOP CHORD, 10 PSF BOTTOM CHORD)
2. FLOOR: 25 PSF TOTAL (15 PSF TOP CHORD, 10 PSF BOTTOM CHORD)
3. FRAMING: ACTUAL
4. MISCELLANEOUS CEILING: 6 PSF
5. MECHANICAL: SEE PLAN

SHOP DRAWINGS

A. SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR APPROVAL, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER RESPONSIBLE FOR ITS PREPARATION, WHO IS REGISTERED IN THE STATE WHICH THE PROJECT IS LOCATED.

B. PRIOR TO SUBMITTAL, THE CONTRACTOR SHALL REVIEW THE SHOP DRAWINGS AND MAKE ANY CORRECTIONS REQUIRED. THE CONTRACTOR SHALL STAMP AND SIGN THE SHOP DRAWINGS PRIOR TO SUBMITTAL TO THE ENGINEER.

C. THE ENGINEER'S REVIEW OF SHOP DRAWINGS IS FOR GENERAL CONFORMANCE OF THE DESIGN CONCEPT. CONTRACTOR SHALL SUBMIT A SCHEDULE OF SHOP DRAWING SUBMITTALS THAT IS ACCEPTABLE TO BOTH CONTRACTOR AND ENGINEER. AFTER THE CONTRACTOR HAS REVIEWED THE SHOP DRAWINGS, PROMPT REVIEW BY THE ENGINEER WILL BE MADE OF ALL SUBMITTALS.

D. FOR LARGE SUBMITTALS, REASONABLE REVIEW TIME SHALL BE ALLOWED AND MAY EXCEED TWO WEEKS. THE CONTRACTOR SHALL SUBMIT NECESSARY REQUEST FOR INFORMATION (RFI's) DURING THE DETAILING PROCESS TO AVOID SUBMITTALS THAT ARE INCOMPLETE OR NEED SIGNIFICANT VERIFICATIONS. THE CONCURRENT SUBMITTAL OF MULTIPLE SHOP DRAWINGS ("DUMPING") WILL FURTHER EXTEND THE REVIEW PROCESS AND TIME FRAME NECESSARY TO PROPERLY REVIEW EACH SUBMITTAL.

E. UNLESS INDICATED OTHERWISE, THE GENERAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE FOLLOWING ITEMS FOR STRUCTURAL REVIEW. REFER TO SPECIFIC SECTION OF STRUCTURAL NOTES FOR ANY ADDITIONAL CRITERIA:
1. CONCRETE MIX DESIGNS
2. PRESTRESSED CONCRETE
3. STRUCTURAL STEEL
4. OPEN-WEB BAR JOISTS
5. STEEL ROOF DECK
6. PRE-ENGINEERED METAL BUILDING DESIGN
7. PRE-FABRICATED WOOD TRUSSES
8. PRE-ENGINEERED POST-FRAME BUILDING
9. ADDITIONAL STRUCTURAL SHOP DRAWINGS REQUESTED IN THE SPECIFICATIONS

F. A COPY OF ALL SHOP DRAWINGS SHALL BE MAINTAINED ON SITE AT ALL TIMES.

G. SHOP DRAWINGS SHALL INCLUDE COMPLETE DETAIL SCHEDULES, PROCEDURES, AND DIAGRAMS FOR FABRICATION AND ASSEMBLY OF STRUCTURAL MEMBERS AND SUBMIT PRIOR TO FABRICATION.

H. ERECTION PLANS ARE THE RESPONSIBILITY OF THE FABRICATOR.

REFERENCE SCALE 1" = 1"
0 1/4" 1/2" 1" 2"

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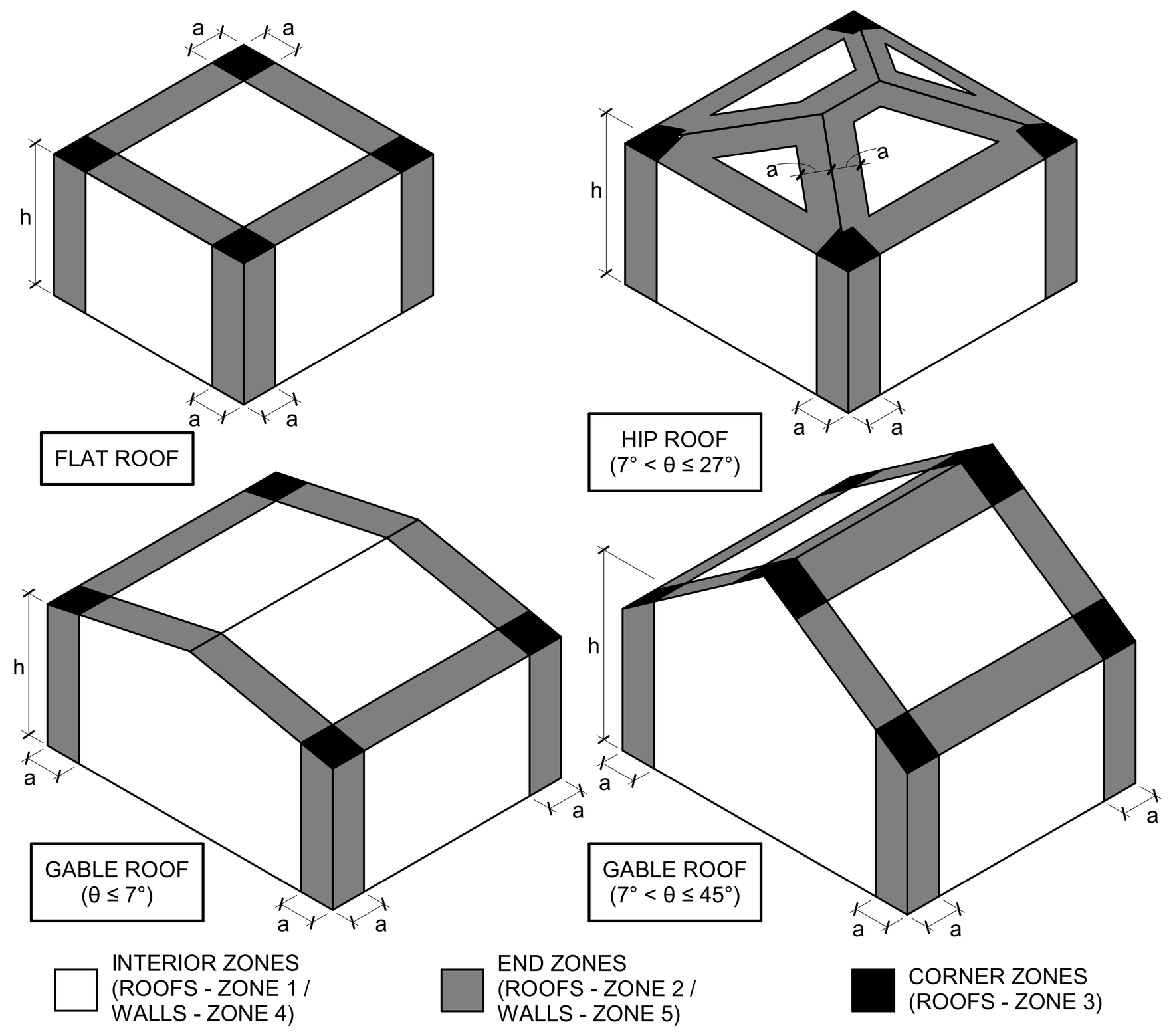
COMPONENTS AND CLADDING WIND PRESSURES (PSF)

ZONE	TRIBUTARY AREA				
	10 sf or smaller	20 sf	50 sf	100 sf	150 sf or greater
WALL INTERIOR	+38.3 / -41.6	+36.6 / -39.8	+34.3 / -37.6	+32.6 / -35.8	+31.6 / -34.8
WALL END	+38.3 / -51.3	+36.6 / -47.9	+34.3 / -43.3	+32.6 / -39.8	+31.6 / -37.8
ROOF INTERIOR	+22.1 / -35.1	+20.1 / -34.1	+17.5 / -32.8	+16.0 / -31.8	+16.0 / -31.8
ROOF END	+22.1 / -61.1	+20.1 / -56.2	+17.5 / -49.7	+16.0 / -44.8	+16.0 / -44.8
ROOF CORNER	+22.1 / -90.3	+20.1 / -84.4	+17.5 / -76.7	+16.0 / -70.8	+16.0 / -70.8
OVERHANG INTERIOR	-16	-16	-16	-16	-16
OVERHANG END	-71.4	-71.4	-71.4	-71.4	-71.4
OVERHANG CORNER	-120.2	-108.4	-92.9	-81.2	-81.2

NOTES:
1. REFER TO DESIGN CRITERIA FOR INFORMATION REGARDING GOVERNING BUILDING CODE.
2. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE SURFACES, RESPECTIVELY.
3. LINEAR INTERPOLATION IS PERMITTED FOR TRIBUTARY AREAS NOT SHOWN.
4. REFER TO FIGURE BELOW FOR ZONE DEFINITIONS.



NOTATION
a = 10% OF LEAST HORIZONTAL DIMENSION OR 0.4h, WHICHEVER IS SMALLER, BUT NOT LESS THAN EITHER 4% OF LEAST HORIZONTAL DIMENSION OR 3 FEET.
h = MEAN ROOF HEIGHT, IN FEET, EXCEPT THAT EAVE HEIGHT SHALL BE USED FOR ROOF ANGLES < 10°.
θ = ANGLE OF PLANE OF ROOF FROM HORIZONTAL, IN DEGREES.

SPECIAL INSPECTIONS

A. SPECIAL INSPECTIONS SHALL BE PROVIDED IN ACCORDANCE WITH IBC SECTION 1704 AND 1705. THE SPECIAL INSPECTOR SHALL BE EMPLOYED BY THE OWNER, SHALL BE THOROUGHLY KNOWLEDGEABLE OF IBC SPECIAL INSPECTION REQUIREMENTS AND SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE BUILDING OFFICIAL. THE CONTRACTOR SHALL CONTACT THE SPECIAL INSPECTOR DURING APPROPRIATE PHASES OF CONSTRUCTION SO THAT INSPECTIONS CAN BE MADE IN A TIMELY MANNER. THE SPECIAL INSPECTOR SHALL SUBMIT WRITTEN INSPECTION REPORTS TO THE ENGINEER OF RECORD'S OFFICE, WITHIN 3 WORKING DAYS OF EACH INSPECTION. ANY PROBLEMS SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR. THE FOLLOWING ITEMS WILL REQUIRE SPECIAL INSPECTION:
1. STEEL
   a. SPECIAL INSPECTIONS ARE NOT REQUIRED FOR WORK DONE IN AN APPROVED FABRICATING SHOP. THE STEEL FABRICATOR MUST BE REGISTERED AND APPROVED BY THE BUILDING OFFICIAL TO PERFORM THE WORK WITHOUT SPECIAL INSPECTIONS. (IBC 1704.2.5.2).
   b. HIGH STRENGTH BOLTING: CONTINUOUS INSPECTIONS ARE REQUIRED FOR SLIP-CRITICAL CONNECTIONS. PERIODIC INSPECTIONS ARE REQUIRED FOR BEARING-TYP. CONNECTIONS.
   c. FIELD WELDING: CONTINUOUS INSPECTIONS ARE REQUIRED FOR COMPLETE AND PARTIAL PENETRATION GROOVE WELDS, MULTI-PASS FILLET WELDS AND SINGLE-PASS FILLET WELDS GREATER THAN 5/16". PERIODIC INSPECTIONS ARE REQUIRED FOR FLOOR AND ROOF DECK WELDS AND SINGLE-PASS FILLET WELDS SMALLER THAN OR EQUAL TO 5/16". CORRECT WELD FILLER MATERIAL SHALL BE VERIFIED IN ALL CASES.
   d. STEEL ERECTION: PERIODIC INSPECTIONS SHALL BE MADE TO VERIFY COMPLIANCE WITH THE DESIGN DRAWINGS.
   e. MATERIALS: THE STEEL MANUFACTURERS CERTIFIED MILL TEST REPORTS SHALL BE SUBMITTED TO THE SPECIAL INSPECTOR OR TO THE ENGINEER OF RECORD.
2. CONCRETE
   a. REINFORCEMENT: REINFORCING STEEL SHALL BE INSPECTED ON A PERIODIC BASIS. WELDING OF REINFORCEMENT SHALL BE CONTINUOUSLY INSPECTED. ONLY ASTM A706 REINFORCEMENT MAY BE WELDED.
   b. SAMPLING AND TESTING: CONTINUOUS INSPECTIONS SHALL BE PROVIDED DURING SLUMP TESTS AND WHEN DETERMINING THE TEMPERATURE OF FRESH CONCRETE AT THE TIME OF MAKING SPECIMENS FOR STRENGTH TESTS.
   c. CONCRETE PLACEMENT: CONTINUOUS INSPECTION REQUIRED.
   d. COLD AND HOT WEATHER CONCRETING: PERIODIC INSPECTION OF COMPLIANCE IS REQUIRED.
3. MASONRY - LEVEL B QUALITY ASSURANCE
   a. BEGINNING OF CONSTRUCTION: PERIODIC INSPECTION SHALL BE MADE OF MORTAR PROPORTIONS, CONSTRUCTION OF MORTAR JOINTS AND REINFORCEMENT LOCATION AND CONNECTORS.
   b. ONGOING CONSTRUCTION: PERIODIC INSPECTION SHALL BE PROVIDED TO VERIFY SIZE AND LOCATION OF STRUCTURAL ELEMENTS, SIZE AND LOCATION OF ANCHORS, SIZE AND TYPE OF REINFORCEMENT AND COMPLIANCE WITH HOT OR COLD WEATHER REQUIREMENTS.
   c. GROUTING: PERIODIC INSPECTION SHALL BE PROVIDED TO VERIFY THAT THE GROUT SPACE IS PROPERLY POSITIONED AND SITE PREPARED GROUT IS PROPERLY PROPORTIONED. CONTINUOUS INSPECTION IS REQUIRED OF GROUT PLACEMENT.
   d. TEST SPECIMENS: CONTINUOUS INSPECTION SHALL BE MADE DURING PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS AND PRISMS.
4. SOILS
   a. THE SPECIAL INSPECTOR SHALL DETERMINE COMPLIANCE WITH THE SOIL REPORT FOR SITE PREPARATION, FILL PLACEMENT AND DENSITY TESTS.

B. TESTING REQUIREMENTS
1. CONCRETE:
   a. SAMPLE FOR STRENGTH TESTS OF EACH CLASS OF CONCRETE PLACED EACH DAY SHALL BE TAKEN NOT LESS THAN ONCE A DAY, NOR LESS THAN ONCE FOR EACH 150 CUBIC YARDS OF CONCRETE, NOR LESS THAN ONCE FOR EACH 5,000 SQUARE FEET OF SURFACE AREA FOR SLABS OR WALLS. A MINIMUM OF FIVE STRENGTH TESTS SHOULD BE MADE FOR A GIVEN PROJECT.
2. MASONRY-UNIT STRENGTH METHOD:
   a. MASONRY UNITS SHALL BE SAMPLED AND TESTED ACCORDING TO ASTM C140.
   b. GROUT SHALL BE SAMPLED AND TESTED ACCORDING TO ASTM C1019.

FOOTINGS AND FOUNDATIONS

A. SOIL BEARING DESIGN VALUE:
1. 5000 PSF (PER GROUND IMPROVEMENT ENGINEER)
2. BEARING VALUE TO BE VERIFIED IN FIELD BY GEOTECHNICAL ENGINEER.
3. FOUNDATION SUPPORTED ON SOIL CORRECTION PER GEOTECHNICAL REPORT.

B. PROTECT FOUNDATION EXCAVATIONS FROM FROST; DO NOT PLACE CONCRETE ON FROZEN GROUND.

C. FOUNDATION EXCAVATIONS SHALL BE KEPT FREE OF LOOSE MATERIAL AND STANDING WATER AND SHALL BE CHECKED AND APPROVED BY THE ENGINEER BEFORE THE PLACEMENT OF ANY CONCRETE.

a. DESIGN FROST PENETRATION DEPTH: 42 INCHES (HEATED) OR 60 INCHES (UNHEATED)

D. MINIMUM OF 6" COMPACTED GRANULAR SUBGRADE BELOW SLABS.

MATERIAL COMPACTION CRITERIA	
LOCATION	MINIMUM RELATIVE COMPACTION PERCENTAGE (ASTM D698 STANDARD PROCTOR DENSITY (SPD))
1'-0" BELOW FOUNDATION AND SLAB SUBGRADE ELEVATIONS	98%
ABOVE BOTTOM OF FOUNDATIONS AND BELOW SLAB SUBGRADE ELEVATIONS	95%
BELOW EXTERIOR SLAB, WITHIN 1'-0" OF SUBGRADE ELEVATIONS	98%
BELOW EXTERIOR SLAB, MORE THAN 1'-0" BELOW SUBGRADE ELEVATIONS	95%

CONCRETE

A. CONCRETE SHALL BE STANDARD WEIGHT MIX UNLESS NOTED OTHERWISE AND MEET THE FOLLOWING CRITERIA:

LOCATIONS	f'c @ 28 DAYS	AIR ENTRAINMENT	MAX. WATER/CEMENT RATIO
FOOTINGS / FOUNDATIONS	3500 PSI		0.55
FLOORS ON GRADE	3500 PSI		0.55
COLUMNS	4000 PSI		0.55
EXTERIOR SLABS ON GRADE	4500 PSI	6% ± 1.5%	0.45
EXPOSED EXTERIOR WALLS	4500 PSI	6% ± 1.5%	0.45

B. CEMENT SHALL CONFORM TO ASTM C150, TYPE I / II.

C. READY-MIX CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C94.

D. CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301 (LATEST EDITION) "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", EXCEPT AS MODIFIED BY THESE NOTES.

E. ADMIXTURES MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER. ADMIXTURES SHALL COMPLY WITH ASTM C494 AND BE OF A TYPE THAT INCREASES THE WORKABILITY OF THE CONCRETE, BUT SHALL NOT BE CONSIDERED TO REDUCE THE SPECIFIED MINIMUM CEMENT CONTENT (CALCIUM CHLORIDE SHALL NOT BE USED).

F. CONTRACTOR SHALL SUBMIT MIX DESIGNS FOR APPROVAL 10 DAYS PRIOR TO FABRICATION AND INSTALLATION. ALL CONCRETE MIXES SHALL BE DESIGNED AND CERTIFIED BY A MATERIALS TESTING COMPANY.

G. PROJECTING CORNERS OF SLABS, BEAMS, WALLS, COLUMNS, ETC. SHALL BE FORMED WITH A 3/4" CHAMFER UNLESS DETAILED OR NOTED OTHERWISE.

H. PLACE VAPOR RETARDER DIRECTLY BELOW FLOOR SLAB.

I. CONCRETE FLOOR SHALL BE CURED IN ACCORDANCE WITH ASTM C309. CONCRETE FLOOR SHALL BE PROTECTED FROM MOISTURE LOSS FOR A MINIMUM OF 14 DAYS, USING AN APPROVED SHEET MEMBRANE IN ACCORDANCE WITH C171.

J. FLOOR FLATNESS AND LEVELNESS TOLERANCES:
1. UNLESS NOTED OTHERWISE, FLOORS SHALL CONFORM TO THE FOLLOWING SURFACE PROFILE TOLERANCES:
   a. FLOOR FLATNESS NUMBER (F_F)
      - SPECIFIED OVERALL VALUE = 20
      - MINIMUM LOCAL VALUE = 15
   b. FLOOR LEVELNESS NUMBER (F_L)
      - SPECIFIED OVERALL VALUE = 20
      - MINIMUM LOCAL VALUE = 15
2. FLOOR TOLERANCE (F_F AND F_L) MEASUREMENTS SHALL BE TESTED IN ACCORDANCE WITH ASTM E 1155. ACTUAL OVERALL F-NUMBERS SHALL BE CALCULATED USING THE INFERIOR / SUPERIOR AREA METHOD.
3. CORRECT DEFECTIVE SLABS BY GRINDING OR REMOVING AND REPLACING DEFECTIVE WORK. RE-MEASURE CORRECTED AREAS BY THE SAME PROCESS.

ANCHOR BOLTS

A. ALL ANCHOR RODS SHALL BE SUPPLIED AND INSTALLED BY THE CONCRETE CONTRACTOR, UNLESS NOTED OTHERWISE.

B. ALL ANCHOR RODS SHALL BE ASTM F1554 GRADE 36 HEX-HEAD, UNLESS NOTED OTHERWISE. NUTS SHALL BE ASTM A563 GRADE A HEAVY HEX. OVER-SIZED PLATE WASHERS SHALL BE ASTM A36.

C. ALL ANCHOR RODS SHALL BE SET WITH TEMPLATES.

D. POST-INSTALLED ANCHORS SHALL BE ADHESIVE ANCHORING SYSTEM PROVIDED AND INSTALLED BY FRAMING CONTRACTOR. ADHESIVE ANCHORS SHALL BE "HILTI HIT-HY 200 ADHESIVE ANCHOR SYSTEM" OR APPROVED ALTERNATE. ANCHORS SHALL BE "HILTI HAS-E" THREADED ROD CONFORMING TO ISO 898-1 CLASS 5.8 OR SHALL BE MADE FROM ALL-THREADED ROD CONFORMING TO ASTM A572 GRADE 60, OR APPROVED ALTERNATE, UNLESS NOTED OTHERWISE.

REINFORCING STEEL

A. BAR REINFORCEMENT SHALL BE ASTM A615, GRADE 60.

B. MINIMUM DEVELOPMENT LENGTH OF REINFORCING BARS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE.

MINIMUM LENGTH FOR STANDARD UN-COATED BARS IN NORMAL WEIGHT CONCRETE						
CONCRETE STRENGTH f'c IN PSI	DEVELOPMENT LENGTH (Ld) FOR STRAIGHT BARS (MIN. OF 12 INCHES)					FOR 90 DEGREE HOOKED BARS, HOOK DEVELOPMENT LENGTH
	TENSION CLASS A		TENSION CLASS B		COMPRESSION	
	#6 AND SMALLER	#7 TO #11	#6 & SMALLER	#7 TO #11	#18, #14, & #11 AND SMALLER	
3000	44 Db	55 Db	57 Db	71 Db	30 Db	22 Db
3500	41 Db	51 Db	53 Db	66 Db	30 Db	20 Db
4000	38 Db	47 Db	49 Db	62 Db	30 Db	19 Db
4500	36 Db	45 Db	47 Db	58 Db	30 Db	18 Db
5000	34 Db	42 Db	44 Db	55 Db	30 Db	17 Db
NOTE: Db = DIAMETER OF REINFORCEMENT. Ld = DEVELOPMENT LENGTH						

C. TYPICAL SPLICES: CLASS B AS DEFINED IN ACI 318, UNLESS NOTED OTHERWISE

D. ADJUSTMENT FACTORS FOR STRAIGHT BARS IN TENSION
1. LIGHTWEIGHT CONCRETE = 1.3.
2. EPOXY COATED = 1.2.
3. EPOXY COATED WITH COVER LESS THAN 3DB OR CLEAR SPACING LESS THAN 6 DB = 1.5.
4. HORIZONTAL "TOP" BARS WITH 12" OF CONCRETE CAST BELOW = 1.3
5. EPOXY COATED HORIZONTAL "TOP" BARS WITH 12" OF CONCRETE CAST BELOW = NOT GREATER THAN 1.7.

E. ADJUSTMENT FACTORS FOR STRAIGHT HOOKS IN TENSION
1. LIGHTWEIGHT CONCRETE = 1.3.
2. EPOXY COATED = 1.2.

F. REINFORCING STEEL SHALL BE PROVIDED WITH THE FOLLOWING AMOUNTS OF COVER FOR CAST-IN-PLACE CONCRETE UNLESS NOTED OTHERWISE:

MINIMUM CLEAR CONCRETE COVER FOR REINFORCING STEEL	
CONCRETE ON SOIL (DIRECT CONTACT)	3"
SLAB ON GRADE	CENTERED
WALLS, STRUCTURAL SLABS EXPOSED TO SOIL OR WEATHER	
#6 TO #18 REBAR	2"
#5 AND SMALLER REBAR	1 1/2"
WALLS, STRUCTURAL SLABS NOT EXPOSED TO EARTH OR WEATHER	
#11 AND SMALLER REBAR	3/4"
COLUMNS AND PIERS (COVER TO STIRRUPS AND TIES)	1 1/2"

G. ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS, AND INSERTS SHALL BE SECURED IN POSITION WITH WIRE POSITIONERS, OR EQUAL, BEFORE PLACING CONCRETE OR GROUT.

H. DOWELS BETWEEN FOOTINGS AND WALLS SHALL BE THE SAME GRADE, SIZE, AND SPACING AS VERTICAL WALL REINFORCING.

I. CONTRACTOR SHALL SUBMIT REINFORCING STEEL SHOP DRAWINGS FOR APPROVAL A MINIMUM OF 10 DAYS PRIOR TO FABRICATION AND INSTALLATION.

J. BARS TO BE WELDED SHALL BE ASTM A706, GRADE 60. WELDING OF REINFORCING BARS SHALL CONFORM TO AWS D1.4.

CONCRETE MASONRY

A. FURNISH AND CONSTRUCT MASONRY IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES AND COMMENTARY AS REPORTED BY MSJC (TMS 402 & 602 / ACI 530 & 530.1 / ASCE 5 & 6).

MASONRY MATERIAL STRENGTHS		
LOCATIONS	TYPE	MINIMUM STRENGTH
HOLLOW CONCRETE MASONRY	NORMAL WEIGHT ASTM C90 GRADE N	f'c = 2,150 PSI
MASONRY CORE AND BOND BEAMS	CONCRETE FILL, ASTM C476	f'g = 2,000 PSI
EXTERIOR AND LOAD-BEARING WALLS, WALLS EXPOSED TO EARTH BELOW GRADE	TYPE M MORTAR, ASTM C270	fm = 2,500 PSI
LOAD-BEARING WALLS ABOVE GRADE	TYPE S MORTAR, ASTM C270	fm = 1,800 PSI
INTERIOR NON-LOAD-BEARING WALLS	TYPE N MORTAR, ASTM C270	fm = 750 PSI
STEEL DEFORMED REINFORCEMENT	ASTM A615, GRADE 60	Fy = 60,000 PSI
STEEL DEFORMED REINFORCEMENT FOR WELDING	ASTM A706	Fy = 60,000 PSI
JOINT REINFORCEMENT	LADDER TYPE, HOT-DIPPED GALVANIZED, ASTM A951/A153	Fy = 70,000 PSI
WIRE REINFORCEMENT FOR CMU	W1.7 (9 GAGE), HOT-DIPPED GALVANIZED, ASTM A82/A153	Fy = 75,000 PSI

B. CONCRETE MASONRY WALLS SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF f'm = 2,000PSI.

C. SEE PLANS FOR LOCATION OF REINFORCED WALLS.

D. MINIMUM VERTICAL REINFORCEMENT SHALL CONSIST OF (1) #5 BAR PROVIDED AT CORNERS, WITHIN 16" OF EACH SIDE OF OPENINGS, WITHIN 8" OF EACH SIDE OF MOVEMENT JOINTS, WITHIN 8" OF THE ENDS OF WALLS, AND AT A MAXIMUM SPACING OF 48" ON-CENTER, UNLESS NOTED OTHERWISE.

E. MINIMUM HORIZONTAL REINFORCEMENT SHALL BE (2) #4 BARS PROVIDED IN BOND BEAM SPACED NOT MORE THAN 48" ON-CENTER, UNLESS NOTED OTHERWISE.

F. HORIZONTAL REINFORCEMENT SHALL ALSO BE PROVIDED AT THE BOTTOM AND TOP OF WALL OPENINGS AND SHALL EXTEND NOT LESS THAN 48 BAR DIAMETERS PAST THE OPENINGS, CONTINUOUSLY AT STRUCTURALLY CONNECTED ROOF AND FLOOR LEVELS, AND WITHIN 16" OF THE TOP OF WALLS.

G. CLEAR DISTANCE BETWEEN PARALLEL REINFORCEMENT SHALL NOT BE LESS THAN 2.5 x BAR DIAMETER.

H. CONNECTION OF INTERSECTING WALLS SHALL CONSIST OF REINFORCED BOND BEAMS WITH (2) #4 HORIZONTAL REINFORCEMENT AT 48" ON-CENTER MAXIMUM, AND (1) #4 VERTICAL REINFORCEMENT WITHIN 12" OF INTERSECTING WALLS, UNLESS NOTED OTHERWISE.

I. VERTICAL STEEL SHALL BE CONTINUOUS WITH 24" LAP AT SPLICES, UNLESS NOTED OTHERWISE.

J. IN COLUMNS, PIERS, AND PILASTERS, THE CLEAR DISTANCE BETWEEN VERTICAL BARS SHALL NOT BE LESS THAN 3 BAR DIAMETERS, NOR LESS THAN 1 1/2".

K. HORIZONTAL JOINT REINFORCEMENT SHALL BE CONTINUOUS WITH 8" LAP SLICES, WHERE USED.

L. CONCRETE BLOCK WALL LINTELS:
1. EXTEND ALL LINTELS A MINIMUM OF 8" BEYOND EACH EDGE OF OPENING. WHERE LINTEL BEARS ON CONCRETE BLOCK, FILL TWO COURSES OF BLOCK MINIMUM WITH CONCRETE.
2. IF THE OPENING OCCURS NEXT TO CONCRETE WALL OR COLUMN, BOLT ANGLE TO COLUMN AND REST LINTEL ON ANGLE. OBTAIN ANGLE SIZE AND BOLT REQUIREMENTS FROM ENGINEER.
3. IF OPENING OCCURS NEXT TO STEEL COLUMN, WELD ANGLE TO COLUMN AND REST LINTEL ON ANGLE. OBTAIN ANGLE SIZE AND WELD REQUIREMENTS FROM ENGINEER.

M. WALL CONSTRUCTION SHALL NOT EXCEED HEIGHTS OF 4'-8" BEFORE PLACEMENT OF CORE GROUT UNLESS CLEANOUT HOLES ARE PROVIDED AT THE BOTTOM OF EACH GROUT LIFT, THEN A MAXIMUM HEIGHT OF 8'-0" BEFORE PLACEMENT OF CORE GROUT.

N. SEE PLANS FOR SIZE AND LOCATION OF CONDUITS, PIPES, AND SLEEVES THROUGH MASONRY WALLS.

O. FOLLOW COLD WEATHER CONSTRUCTION WHEN AMBIENT AIR TEMPERATURE IS BELOW 40° F.

P. FOLLOW HOT WEATHER CONSTRUCTION PROCEDURES WHEN AMBIENT AIR TEMPERATURE EXCEEDS 90° F WITH WIND VELOCITY GREATER THAN 8 MPH.

Q. ALL VISIBLE, NON-VISIBLE, ABOVE-GRADE AND BELOW-GRADE JOINTS SHALL BE TOOLED IN A CONCAVE CONFIGURATION UNLESS SPECIFIED OTHERWISE BY ARCHITECT.

PRESTRESSED CONCRETE

A. DESIGN PRECAST CONCRETE UNITS AND CONNECTIONS CAPABLE OF WITHSTANDING DESIGN LOAD CRITERIA, LOADS SHOWN ON PLANS AND ALL OTHER DEAD LOADS IN ACCORDANCE WITH PCI MNL 120, "PRECAST AND PRE-STRESSED CONCRETE" AND PCI MNL 123, "DESIGN AND TYPICAL DETAILS OF CONNECTIONS FOR PRECAST AND PRE-STRESSED CONCRETE."

B. PRECAST CONCRETE TO BE MANUFACTURED BY A PCI CERTIFIED PLANT IN ACCORDANCE WITH PCI MNL 116, "MANUAL FOR QUALITY CONTROL FOR PLANTS AND PRODUCTION OF STRUCTURAL CONCRETE PRODUCTS," PCI MNL 117, "MANUAL FOR QUALITY CONTROL FOR PLANTS AND PRODUCTION OF ARCHITECTURAL PRECAST CONCRETE PRODUCTS," AND PCI MNL 135, "TOLERANCE MANUAL FOR PRECAST AND PRE-STRESSED CONCRETE CONSTRUCTION."

C. PROVIDE NECESSARY CONNECTIONS TO RESTRAIN OR STABILIZE COMPONENTS. FOLLOW STRUCTURAL INTEGRITY REQUIREMENTS OF PCI MNL 120 AND ACI 318.

D. ALL HEADERS AT OPENINGS IN PRECAST AND PRE-STRESSED CONCRETE SHALL BE FURNISHED BY SUPPLIER.

E. PLACE OPENINGS NOT SHOWN ON PLANS BETWEEN WEBS IN PRECAST UNITS. VERIFY SIZE AND LOCATION WITH PRECAST SUPPLIER.

F. SHOP DRAWINGS
1. INDICATE ALL PRECAST MEMBER DESIGNS AND THEIR DESIGN LOADS.
2. SHOW THE ERECTION SEQUENCE, BRACING PLAN, ALL BEARING CONDITIONS AND ANCHORAGE DETAILS.
3. LOCATE AND DETAIL CONNECTIONS INCLUDING THEIR LOOSE HARDWARE AND ANCHORAGE ITEMS. INDICATE ITEMS TO BE EMBEDDED IN OR ATTACHED TO OTHER CONSTRUCTION AND WHO THEY ARE FURNISHED BY.

G. WELDING
1. ALL WELDING PROCEDURES AND PERSONNEL SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.1, "STRUCTURAL WELDING CODE – STEEL," AND AWS D1.4, "STRUCTURAL WELDING CODE – REINFORCING."
2. ALL WELDERS SHALL BE CURRENTLY CERTIFIED AND REGISTERED BY LOCAL OFFICIALS AND/OR AWS, WITH THEIR CERTIFICATION AVAILABLE UPON REQUEST.
3. WELDING PROCEDURES AND SEQUENCES SHALL BE PLANNED TO MINIMIZE SPALLING INDUCED BY STEEL EXPANSION OR WELD SHRINKAGE.
4. ALL WELD FILLER MATERIAL SHALL BE AWS E70XX, UNLESS NOTED OTHERWISE.
5. ALL FIELD WELDS SHALL BE WIRE BRUSHED AND CLEANED, THEN TOUCHED UP PAINTED UNLESS PATCHED UNDER APPROPRIATE CONCRETE COVER PER ACI 318.

H. PRECAST ERECTION
1. ERECTOR SHALL BE PCI CERTIFIED AND HAVE A MINIMUM OF 5 YEARS EXPERIENCE IN THE ERECTION OF PRECAST CONCRETE SIMILAR TO THE REQUIREMENTS OF THE PROJECT.
2. ALL LIFTING, HANDLING, TRANSPORTATION AND DELIVERY, STORAGE AND SUPPORT, BRACING AND ERECTION OF PRECAST UNITS ARE TO BE PERFORMED BY QUALIFIED PERSONNEL USING METHODS AND EQUIPMENT APPROVED BY MANUFACTURER.
3. ERECT PRECAST UNITS LEVEL, PLUMB, SQUARE, TRUE AND IN ALIGNMENT IN ACCORDANCE WITH PCI MNL 127, "STANDARDS AND GUIDELINES FOR THE ERECTION OF PRECAST CONCRETE PRODUCTS," AND THE ERECTION TOLERANCES OF PCI MNL 135.
4. PRECAST AND PRE-STRESSED UNITS SHALL BE ESSENTIALLY PAST THE EFFECTS OF DEFORMATION DUE TO CREEP AND SHALL NOT HAVE CAMBER OVER 1/300 OF THE SPAN. PROVIDE FOR UNIFORM CAMBER OF UNITS IN ACCORDANCE WITH PCI MNL 135.

I. MATERIALS
1. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5,000 PSI.
2. CEMENT SHALL CONFORM TO ASTM C150, TYPE I OR III.
3. ADMIXTURES SHALL CONFORM TO ASTM C260 AND ASTM C494.
4. AGGREGATES SHALL CONFORM TO ASTM C330 AND ASTM C33, EXCEPT THAT COARSE AGGREGATES FOR PRECAST CONCRETE SURFACES EXPOSED TO DAMP CONDITIONS SHALL CONTAIN ZERO IRON OXIDES.
5. READY MIX SHALL CONFORM TO ASTM C94.
6. STRAND SHALL BE GRADE 250KSI OR 270KSI, UNCOATED, 7-WIRE, STRESS RELIEVED STRAND CONFORMING TO ASTM A416.
7. STRUCTURAL STEEL SHALL CONFORM TO ASTM A36.
8. SEE REINFORCING STEEL SECTION FOR REQUIREMENTS.
9. GROUT SHALL BE AS INDICATED ON DRAWINGS:
   a. "DRY PACK," GROUT SHALL BE TYPE I (ASTM C150) PORTLAND CEMENT, SAND AND WATER HAVING A MINIMUM OF 3,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS, AND A SAND CEMENT RATIO OF 3 TO 1.
   b. "NON-SHRINK" DRY PACK SHALL CONFORM TO ASTM C1107, BE TYPE III (ASTM C150) PORTLAND CEMENT, SAND AND WATER HAVING A MINIMUM OF 10,000PSI COMPRESSIVE STRENGTH AT 28 DAYS.
   c. TAMP DRY PACK GROUT BETWEEN BOTTOM OF PRECAST WALLS AND THEIR BEARING SURFACES FILLING THE ENTIRE AREA FREE OF VOIDS. RAKE JOINTS BACK AT LOCATIONS WHERE BACKER ROD AND SEALANT IS TO BE INSTALLED.

WOOD

A. GENERAL:
1. ALL WOOD MEMBERS SHALL BE AS FOLLOWS (UNLESS APPROVED BY THE ENGINEER):
   a. STUDS - SPRUCE PINE FIR (SPF) STUD GRADE OR SOUTHERN PINE STUD GRADE.
   b. HEADERS/JOISTS - DOUGLAS FIR-LARCH (DF-L) NO. 2 OR BETTER, HEM-FIR NO. 2 OR BETTER, OR SOUTHERN PINE NO. 2 OR BETTER.
2. ALL SHEATHING SHALL BE APA RATED SHEATHING.
3. CUTTING, NOTCHING, OR DRILLING OF BEAMS OR JOISTS SHALL BE PERMITTED ONLY AS DETAILED OR APPROVED BY THE ENGINEER.
4. ALL NAILING SHALL CONFORM TO NAILING SCHEDULE IBC TABLE 2304.9.1, UNLESS NOTED OTHERWISE.
5. ALL SILLS OR PLATES RESTING ON CONCRETE OR MASONRY, WHICH IS IN CONTACT WITH EARTH OR RESTING ON FOUNDATIONS, SHALL BE PRESSURE TREATED SOUTHERN PINE NO. 2.
6. ALL MEMBER SIZES GIVEN OR DRAWINGS ARE NOMINAL DIMENSIONS.
7. SPACING OF BRIDGING FOR JOISTS SHALL NOT EXCEED 8'.
8. WOOD LINTELS AND HEADERS SHALL HAVE A FULL 3" LENGTH OF BEARING AT EACH END.
9. DOUBLE ALL JOISTS UNDER PARALLEL PARTITIONS.
10. ALL BEAMS AND JOISTS NOT BEARING ON SUPPORTING MEMBERS SHALL BE FRAMED WITH JOIST HANGERS.
11. WOOD JOISTS SHALL BEAR THE FULL WIDTH OF SUPPORTING MEMBERS (STUD WALLS, BEAMS, ETC. UNLESS OTHERWISE NOTED).
12. PRE-BORE HOLES FOR ALL FASTENERS GREATER THAN 1/4" Ø PER MANUFACTURER'S RECOMMENDATIONS.

B. SILL PLATES
1. UNLESS NOTED OTHERWISE, SILL PLATES SHALL BE BOLTED TO FOUNDATION WALL WITH 1/2"Ø G185 HOT-DIPPED GALVANIZED, TYPE 304 OR TYPE 316 STAINLESS BOLTS (TYPICAL FOR ALL FASTENERS / CONNECTORS IN CONTACT WITH ACQ TREATED LUMBER) AT 4'-0" MAXIMUM O.C. BOLTS SHALL EXTEND 12" MINIMUM INTO FOUNDATION. EACH SILL PLATE TO HAVE A MINIMUM OF TWO BOLTS WITH ONE BOLT LOCATED WITHIN 12" OF EACH END OF EACH PIECE.

C. MANUFACTURED WOOD TRUSSES
1. WOOD TRUSS DESIGN SHALL BE DESIGNED IN ACCORDANCE WITH THE PROVISIONS OF IBC WOOD SECTION 2303.4.
2. LUMBER FOR WOOD TRUSSES SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
3. TRUSS, BRIDGING, BRACING AND/OR BLOCKING, TO PREVENT ROTATION AND PROVIDE LATERAL STABILITY, SHALL BE SUBMITTED BY TRUSS MANUFACTURER FOR ENGINEER'S REVIEW.
4. LOCATIONS FOR LATERAL RESTRAINT SHALL BE IDENTIFIED ON THE TRUSS DESIGN DRAWINGS.
5. NO CUTTING, NOTCHING, AND/OR FIELD MODIFICATIONS OR REPAIRS OF TRUSSES WITHOUT ENGINEER OF RECORD AND TRUSS MANUFACTURER ENGINEER'S WRITTEN APPROVAL.
6. DAMAGED TRUSSES, INCLUDING DAMAGED AND/OR LOOSE TRUSS METAL-PLATE-CONNECTORS, MAY NOT BE USED.
7. GABLE END TRUSS KNEE BRACING PER MANUFACTURER'S RECOMMENDATIONS.
8. PROVIDE BALLOON-FRAMED GABLE END WALL FOR DIAPHRAGM FORCE TRANSFER AND TRUSS STABILITY.
9. TOTAL LOAD DEFLECTION LIMITATIONS:
   a. ROOF TRUSSES LESS THAN L/360.
   b. VERTICAL SCISSOR TRUSSES LESS THAN 3/4".
10. SUBMIT COMPLETE SHOP DRAWINGS FOR APPROVAL, SHOWING THE ERECTION PLAN, ALL BEARING CONDITIONS, AND CONNECTIONS. CALCULATIONS CERTIFIED BY A PROFESSIONAL ENGINEER SHALL BE REQUIRED FOR ALL WOOD TRUSSES.
11. WOOD TRUSS SUPPLIER SHALL DETAIL BEARING OF TRUSSES SO AS NOT TO EXCEED STRESS PERPENDICULAR TO GRAIN OF WOOD PLATES THAT SUPPORT THE TRUSSES.
12. DESIGN OF BOTH TEMPORARY AND PERMANENT TRUSS MEMBER RESTRAINING FOR ALL TRUSSES WHICH CLEAR SPAN 60 FEET OR GREATER SHALL BE PROVIDED BY TRUSS SUPPLIER.

D. LAMINATED VENEER LUMBER (LVL):
1. DESIGN STRESSES:
   a. E = 2,000,000 PSI
   b. F_b = 2,800 PSI
   c. F_v = 285 PSI

E. LAMINATED STRAND LUMBER (LSL)
1. DESIGN STRESSES:
   a. E = 1,300,000 PSI
   b. F_b = 1,700 PSI
   c. F_v = 400 PSI

F. PARALLEL STRAND LUMBER (PSL)
1. DESIGN STRESSES:
   a. E = 2,000,000 PSI
   b. F_b = 2,900 PSI
   c. F_v = 290 PSI

G. GLULAM (DF)
1. DESIGN STRESSES:
   a. E = 1,800,000 PSI
   b. F_b = 2,400 PSI
   c. F_v = 265 PSI

H. MULTIPLE MEMBER BEAMS SHALL BE ASSEMBLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, BUT NOT LESS THAN NAILING SPECIFIED IN DIMENSIONAL LUMBER SECTION OF THESE NOTES.

PROJECT

5TH WARD RESIDENCES

72 UNIT APARTMENT BUILDING

LA CROSSE WISCONSIN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	20-24403
FILE NAME	24403 Apartments Arch- R20.rvt
DRAWN BY	KSS
DESIGNED BY	DCM
REVIEWED BY	DCM
ORIGINAL ISSUE DATE	09/15/2021
CLIENT PROJECT NO.	

TITLE

STRUCTURAL NOTES

SHEET

S1-00

NAILING SCHEDULE BASED ON THE INTERNATIONAL BUILDING CODE

DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION
ROOF		
1. BLOCKING BETWEEN CEILING JOISTS, RAFTERS OR TRUSSES TO TOP PLATE OR OTHER FRAMING BELOW	3-8D COMMON (21/2" × 0.131"); OR 3-10D BOX (3" × 0.128"); OR 3-3" × 0.131" NAILS; OR 3-3"14 GAGE STAPLES, 7/16" CROWN	EACH END, TOE NAIL
BLOCKING BETWEEN RAFTERS OR TRUSS NOT AT THE WALL TOP PLATE, TO RAFTER OR TRUSS	2-8D COMMON (21/2" × 0.131") 2-3" × 0.131" NAILS 2-3" 14 GAGE STAPLES	EACH END, TOE NAIL
	2-16D COMMON (31/2" × 0.162") 3-3" × 0.131" NAILS 3-3" 14 GAGE STAPLES	END NAIL
FLAT BLOCKING TO TRUSS AND WEB FILLER	16D COMMON (31/2" × 0.162") @ 6" O.C. 3" × 0.131" NAILS @ 6" O.C. 3" × 14 GAGE STAPLES @ 6" O.C.	FACE NAIL
2. CEILING JOISTS TO TOP PLATE	3-8D COMMON (21/2" × 0.131"); OR 3-10D BOX (3" × 0.128"); OR 3-3" × 0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	EACH JOIST, TOE NAIL
3. CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS (NO THRUST) (SEE SECTION 2308.7.3.1, TABLE 2308.7.3.1)	3-16D COMMON (31/2" × 0.162"); OR 4-10D BOX (3" × 0.128"); OR 4-3" × 0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL
4. CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT) (SEE SECTION 2308.7.3.1, TABLE 2308.7.3.1)	PER TABLE 2308.7.3.1	FACE NAIL
5. COLLAR TIE TO RAFTER	3-10D COMMON (3" × 0.148"); OR 4-10D BOX (3" × 0.128"); OR 4-3" × 0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL
6. RAFTER OR ROOF TRUSS TO TOP PLATE (SEE SECTION 2308.7.5, TABLE 2308.7.5)	3-10 COMMON (3" × 0.148"); OR 3-16D BOX (31/2" × 0.135"); OR 4-10D BOX (3" × 0.128"); OR 4-3" × 0.131 NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	TOE NAIL (FOOTNOTE C)
7. ROOF RAFTERS TO RIDGE VALLEY OR HIP RAFTERS; OR ROOF RAFTER TO 2-INCH RIDGE BEAM	2-16D COMMON (31/2" × 0.162"); OR 3-10D BOX (3" × 0.128"); OR 3-3" × 0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN; OR	END NAIL
	3-10D COMMON (31/2" × 0.148"); OR 3-16D BOX (31/2" × 0.135"); OR 4-10D BOX (3" × 0.128"); OR 4-3" × 0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	TOE NAIL
WALL		
8. STUD TO STUD (NOT AT BRACED WALL PANELS)	16D COMMON (31/2" × 0.162")	24" O.C. FACE NAIL
	10D BOX (3" × 0.128"); OR 3" × 0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	16" O.C. FACE NAIL
9. STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL PANELS)	16D COMMON (31/2" × 0.162"); OR	24" O.C. FACE NAIL
	16D BOX (31/2" × 0.135"); OR	12" O.C. FACE NAIL
	3" × 0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	12" O.C. FACE NAIL
10. BUILT-UP HEADER (2" TO 2" HEADER)	16D COMMON (31/2" × 0.162"); OR	16" O.C. EACH EDGE, FACE NAIL
	16D BOX (31/2" × 0.135")	12" O.C. EACH EDGE, FACE NAIL
11. CONTINUOUS HEADER TO STUD	4-8D COMMON (21/2" × 0.131"); OR 4-10D BOX (3" × 0.128")	TOE NAIL
12. TOP PLATE TO TOP PLATE	16D COMMON (31/2" × 0.162"); OR	16" O.C. FACE NAIL
	10D BOX (3" × 0.128"); OR 3" × 0.131" NAILS; OR 3" 14 GAGE STAPLES, 7/16" CROWN	12" O.C. FACE NAIL
13. TOP PLATE TO TOP PLATE, AT END JOINTS	8-16D COMMON (31/2" × 0.162"); OR 12-10D BOX (3" × 0.128"); OR 12-3" × 0.131" NAILS; OR 12-3" 14 GAGE STAPLES, 7/16" CROWN	EACH SIDE OF END JOINT, FACE NAIL (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)
14. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS)	16D COMMON (31/2" × 0.162"); OR	16" O.C. FACE NAIL
	16D BOX (31/2" × 0.135"); OR 3" × 0.131" NAILS; OR 3" 14 GAGE STAPLES, 7/16" CROWN	12" O.C. FACE NAIL
15. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING AT BRACED WALL PANELS	2-16D COMMON (31/2" × 0.162"); OR 3-16D BOX (31/2" × 0.135"); OR 4-3" × 0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	16" O.C. FACE NAIL
16. STUD TO TOP OR BOTTOM PLATE	4-8D COMMON (21/2" × 0.131"); OR 4-10D BOX (3" × 0.128"); OR 4-3" × 0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN; OR	TOE NAIL
	4-8D COMMON (21/2" × 0.131"); OR 4-10D BOX (3" × 0.128"); OR 4-3" × 0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN; OR	TOE NAIL
	2-16D COMMON (31/2" × 0.162"); OR 3-10D BOX (3" × 0.128"); OR 3-3" × 0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	END NAIL
17. TOP OR BOTTOM PLATE TO STUD	2-16D COMMON (31/2" × 0.162"); OR 3-10D BOX (3" × 0.128"); OR 3-3" × 0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	END NAIL
18. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2-16D COMMON (31/2" × 0.162"); OR 3-10D BOX (3" × 0.128"); OR 3-3" × 0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL
19. 1" BRACE TO EACH STUD AND PLATE	2-8D COMMON (21/2" × 0.131"); OR 2-10D BOX (3" × 0.128"); OR 2-3" × 0.131" NAILS; OR 2-3" 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL
20. 1" × 6" SHEATHING TO EACH BEARING	2-8D COMMON (21/2" × 0.131"); OR 2-10D BOX (3" × 0.128")	FACE NAIL
21. 1" × 8" AND WIDER SHEATHING TO EACH BEARING	3-8D COMMON (21/2" × 0.131"); OR 3-10D BOX (3" × 0.128")	FACE NAIL

DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION
FLOOR		
22. JOIST TO SILL, TOP PLATE, OR GIRDER	3-8D COMMON (21/2" × 0.131"); OR FLOOR 3-10D BOX (3" × 0.128"); OR 3-3" × 0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	TOE NAIL
23. RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR OTHER FRAMING BELOW	8D COMMON (21/2" × 0.131"); OR 10D BOX (3" × 0.128"); OR 3" × 0.131" NAILS; OR 3" 14 GAGE STAPLES, 7/16" CROWN	6" O.C., TOENAIL
24. 1" × 6" SUBFLOOR OR LESS TO EACH JOIST	2-8D COMMON (21/2" × 0.131"); OR 2-10D BOX (3" × 0.128")	FACE NAIL
25. 2" SUBFLOOR TO JOIST OR GIRDER	2-16D COMMON (31/2" × 0.162")	FACE NAIL
26. 2" PLANKS (PLANK & BEAM – FLOOR & ROOF)	2-16D COMMON (31/2" × 0.162")	EACH BEARING, FACE NAIL
27. BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS	20D COMMON (4" × 0.192")	32" O.C., FACE NAIL AT TOP AND BOTTOM, STAGGERED ON OPPOSITE SIDES
	10D BOX (3" × 0.128"); OR 3" × 0.131" NAILS; OR 3" 14 GAGE STAPLES, 7/16" CROWN	24" O.C. FACE NAIL AT TOP AND BOTTOM, STAGGERED ON OPPOSITE SIDES
	AND: 2-20D COMMON (4" × 0.192"); OR 3-10D BOX (3" × 0.128"); OR 3-3" × 0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	ENDS AND AT EACH SPLICE, FACE NAIL
28. LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	3-16D COMMON (31/2" × 0.162"); OR 4-10D BOX (3" × 0.128"); OR 4-3" × 0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	EACH JOIST OR RAFTER, FACE NAIL
29. JOIST TO BAND JOIST OR RIM JOIST	3-16D COMMON (31/2" × 0.162"); OR 4-10D BOX (3" × 0.128"); OR 4-3" × 0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	END NAIL
30. BRIDGING OR BLOCKING TO JOIST, RAFTER OR TRUSS	2-8D COMMON (21/2" × 0.131"); OR 2-10D BOX (3" × 0.128"); OR 2-3" × 0.131" NAILS; OR 2-3" 14 GAGE STAPLES, 7/16" CROWN	EACH END, TOENAIL
WOOD STRUCTURAL PANELS (WSP), SUBFLOOR, ROOF & INTERIOR WALL SHEATHING TO FRAMING & PARTICLEBOARD WALL SHEATHING TO FRAMING (FOOTNOTE A)		
		EDGES (INCHES) / INTERMEDIATE SUPPORTS (INCHES)
31. 3/8" – 1/2"	6D COMMON OR DEFORMED (2" × 0.113") (SUBFLOOR AND WALL)	6 / 12
	8D BOX OR DEFORMED (21/2" × 0.113") (ROOF)	6 / 12
	2 3/8" × 0.113" NAIL (SUBFLOOR AND WALL)	6 / 12
	#10 SCREWS (SUBFLOOR AND ROOF)	6 / 12
	1 3/4" 16 GAGE STAPLE, 7/16" CROWN (SUBFLOOR AND WALL)	4 / 8
	2 3/8" × 0.113" NAIL (ROOF)	4 / 8
	1 3/4" 16 GAGE STAPLE, 7/16" CROWN (ROOF)	4 / 8
32. 19/32" – 3/4"	8D COMMON (21/2" × 0.131"); OR 6D DEFORMED (2" × 0.113")	6 / 12
	#10 SCREWS	6 / 12
	2 3/8" × 0.113" NAIL; OR 2" 16 GAGE STAPLE, 7/16" CROWN	4 / 8
33. 7/8" – 1 1/4"	10D COMMON (3" × 0.148"); OR 8D DEFORMED (21/2" × 0.131")	6 / 12
OTHER EXTERIOR WALL SHEATHING		
34. 1/2" FIBERBOARD SHEATHING (FOOTNOTE B)	1 1/2" GALVANIZED ROOFING NAIL (7/16" HEAD DIAMETER); OR 1 1/4" 16 GAGE STAPLE WITH 7/16" OR 1" CROWN	3 / 6
35. 25/32" FIBERBOARD SHEATHING (FOOTNOTE B)	1 3/4" GALVANIZED ROOFING NAIL (7/16" DIAMETER HEAD); OR 1 1/2" 16 GAGE STAPLE WITH 7/16" OR 1" CROWN	3 / 6
WOOD STRUCTURAL PANELS, COMBINATION SUBFLOOR UNDERLAYMENT TO FRAMING		
36. 3/4" AND LESS	8D COMMON (21/2" × 0.131"); OR 6D DEFORMED (2" × 0.113")	6 / 12
37. 7/8" – 1"	8D COMMON (21/2" × 0.131"); OR 8D DEFORMED (21/2" × 0.131")	6 / 12
38. 1 1/8" – 1 1/4"	10D COMMON (3" × 0.148"); OR 8D DEFORMED (21/2" × 0.131")	6 / 12
PANEL SIDING TO FRAMING		
39. 1/2" OR LESS	6D CORROSION-RESISTANT SIDING (17/8" × 0.106"); OR 6D CORROSION-RESISTANT CASING (2" × 0.099")	6 / 12
40. 5/8"	8D CORROSION-RESISTANT SIDING (23/8" × 0.128"); OR 8D CORROSION-RESISTANT CASING (21/2" × 0.113")	6 / 12
INTERIOR PANELING		
41. 1/4"	4D CASING (11/2" × 0.080"); OR 4D FINISH (11/2" × 0.072")	6 / 12
42. 3/8"	6D CASING (2" × 0.099"); OR 6D FINISH (PANEL SUPPORTS AT 24 INCHES)	6 / 12

FOOTNOTES:

A. NAILS SPACED AT 6 INCHES AT INTERMEDIATE SUPPORTS WHERE SPANS ARE 48 INCHES OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.
B. SPACING SHALL BE 6 INCHES ON CENTER ON THE EDGES AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS. PANEL SUPPORTS AT 16 INCHES (20 INCHES IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).
C. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL.

FOOTING SCHEDULE

MARK	LENGTH	WIDTH	THICKNESS: CONT FOOTING	THICKNESS: PAD FOOTING	REINFORCING	COMMENTS
F1		1' - 4"	1' - 0"		(2) #5 BARS CONTINUOUS	
F2		2' - 0"	1' - 0"		(2) #5 BARS CONTINUOUS	
F3		3' - 0"	1' - 0"		(3) #5 BARS CONTINUOUS W/ #5 BARS @ 36" OC TRANS	
F4	3' - 0"	3' - 0"		1' - 0"	#5 BARS @ 12" OCEW	
F5	5' - 0"	5' - 0"		1' - 0"	#5 BARS @ 12" OCEW	
F6	7' - 0"	7' - 0"		1' - 4"	#6 BARS @ 12" OCEW	
F7	8' - 0"	8' - 0"		1' - 6"	#7 BARS @ 12" OCEW	
F8	14' - 8"	13' - 0"		1' - 0"	#6 BARS @ 12" OCEW	

FOUNDATION WALL SCHEDULE

MARK	WIDTH	MATERIAL	REINFORCING	COMMENTS
FDN1	0' - 8"	CIP	#4 BARS @ 12" OCEW	
FDN2	1' - 0"	CIP	(2) MATS OF #5 BARS @ 12" OCEW	

PIER SCHEDULE

MARK	LENGTH	WIDTH	DIAMETER	REINFORCING	COMMENTS
P1	1' - 0"	1' - 0"		(4) #5 BARS VERTICAL W/ #4 TIES @ 12" OC AND (3) #4 TIES IN TOP 9"	
P2	1' - 4"	1' - 8"		(6) #6 BARS VERTICAL W/ #4 TIES @ 12" OC AND (3) #4 TIES IN TOP 9"	

COLUMN SCHEDULE

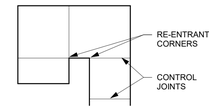
MARK	SIZE/TYPE	COMMENTS
C1	24" X 24" PRECAST	SIZE AND REINFORCING BY PRECAST SUPPLIER, TBD
C2	HSS 3X3X5/16	
C3	5 1/4" X 5 1/4" PARALLAM PSL 2.0E	WRAP COLUMNS LOCATED IN EXTERIOR WALLS WITH (1) LAYER 5/8" TYPE X EXTERIOR GYPSUM BOARD TO PROVIDE A 1 HOUR FIRE RATING. WRAP COLUMNS IN INTERIOR PARTITIONS WITH (1) LAYER 5/8" TYPE X GYPSUM BOARD TO PROVIDE A 1 HOUR FIRE RATING. SIZE AND REINFORCING BY PRECAST SUPPLIER, TBD
C4	32" X 24" CMU	#5 BAR VERTICAL IN EACH CORE, FULLY GROUTED
C5	PT 6X6 DFL NO2	PROVIDE SST ABU66Z BASE & CCQ44SDS2.5, TYP. AT EACH COLUMN

HEADER SCHEDULE

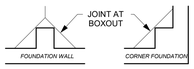
MARK	SIZE	JACK STUDS	KING STUDS	COMMENTS
H1	(2) 2X8	1	1	
H3	(2) 2X10	1	1	
H4	(2) 2X10	2	2	
H5	(2) 2X10	3	2	
H6	(2) 2X12	1	1	
H7	(2) 2X12	1	2	
H8	(3) 2X12	2	1	
H9	(3) 2X12	2	2	
H10	(3) 2X12	3	2	
H11	(3) 2X12	3	3	
H12	(3) 2X12	4	2	
H13	(3) 2X12	4	3	
H14	(2) 1 3/4" X 11 7/8"	1	1	
H16	(3) 1 3/4" X 14" LVL			
H17	(2) 1 3/4" X 11 7/8" LVL			REFER TO PLAN FOR BEARING
H18	(3) 1 3/4" X 11 7/8" LVL			

CONTROL JOINT PLACEMENT GUIDELINES

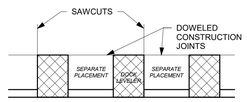
1. SPACE JOINTS (IN FEET) NO MORE THAN 2-3 TIMES THE SLAB THICKNESS (IN INCHES). FOR EXAMPLE, A 4" SLAB SHOULD HAVE JOINTS 8' TO 12' APART.
2. CUT JOINTS 25% OF THE DEPTH OF SLAB, MIN.
3. CUT JOINTS USING GROOVING TOOLS IN FRESH CONCRETE OR SAW CUTTING JOINTS AS SOON AS THE CONCRETE IS HARD ENOUGH THAT THE EDGES ABUTTING THE CUT DONT CHIP FROM THE SAW BLADE.
4. IN HOT WEATHER, CONCRETE MIGHT CRACK IF JOINTS ARE NOT CUT WITHIN 6-12 HOURS AFTER FINISHING CONCRETE. PLAN ALTERNATE JOINT CUTTING EQUIPMENT ACCORDINGLY.
5. WHERE POSSIBLE, PLACE JOINTS UNDER PROPOSED NON-LOAD-BEARING WALL LOCATIONS OR UNDER CARPET AREAS.
6. MINIMIZE RE-ENTRANT CORNERS AND AVOID WHERE POSSIBLE.



EXAMPLE CONTROL JOINT PLAN



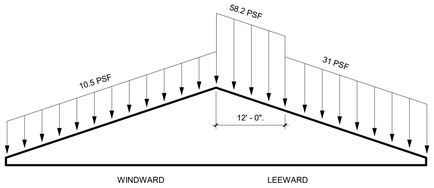
EXAMPLE PILASTER JOINT PLAN



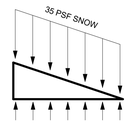
EXAMPLE MULTIPLE DOCK LEVELER JOINT PLAN

FRAMING NOTES

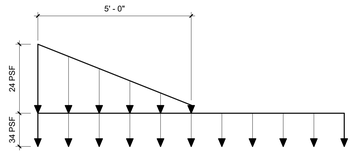
1. ALL HEADERS TO BE PLACED DIRECTLY ABOVE OPENING, UNO.
2. PARALLEL FLOOR TRUSS WEBS TO ALIGN.
3. PROVIDE H2.5T SIMPSON STRONGTIE CONNECTORS AT EACH ROOF TRUSS, TYPICAL UNO.
4. TRUSS HANGERS AT GIRDER TRUSSES BY TRUSS SUPPLIER.
5. GENERAL CONTRACTOR TO COORDINATE TRUSS LOCATIONS WITH PLUMBING, MECHANICAL, AND ELECTRICAL.
6. ALL ROOF TRUSSES TO BE MONOSLOPE TRUSSES BEARING ON INTERIOR WALLS AS INDICATED, UNO. TOP CHORDS TO CANTILEVER OVER CORRIDORS WHERE APPLICABLE. REFER TO SECTIONS FOR MORE INFORMATION.
7. 1' - 0" HEEL HEIGHTS UNO.
8. GENERAL CONTRACTOR TO COORDINATE TRUSS AND FRAMING LAYOUT W/ MECHANICAL, ELECTRICAL, AND PLUMBING DOCUMENTS AND CONTRACTORS PRIOR TO FABRICATION AND ERECTION TO ACCOUNT FOR ALL POTENTIAL INTERFERENCES BETWEEN STRUCTURE AND FIXTURES, ETC.
9. TRUSS MANUFACTURER TO PROVIDE ADEQUATE SUPPORT FOR POINT LOADS AT LOCATIONS WHERE COLUMNS COME DOWN ON A TRUSS.
10. PROVIDE STUB COLUMNS IN TRUSS SPACE TO CONTINUE LOADS THROUGH FLOOR ASSEMBLY TO FOUNDATION.



2 UNBALANCED SNOW LOAD
1" = 10'-0"



3 CANOPY SNOW LOAD
1" = 10'-0"



4 ENTRANCE ROOF SNOW DRIFT LOAD
1/2" = 1'-0"

REFERENCE SCALE
1" = 1'-
0 1/4" 1/2" 1" 2"

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ISG

PROJECT

5TH WARD RESIDENCES

72 UNIT APARTMENT BUILDING

LA CROSSE WISCONSIN

REVISION SCHEDULE

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PROJECT NO.	20-24403
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DESIGNED BY	DCM
REVIEWED BY	DCM
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CLIENT PROJECT NO.	

TITLE

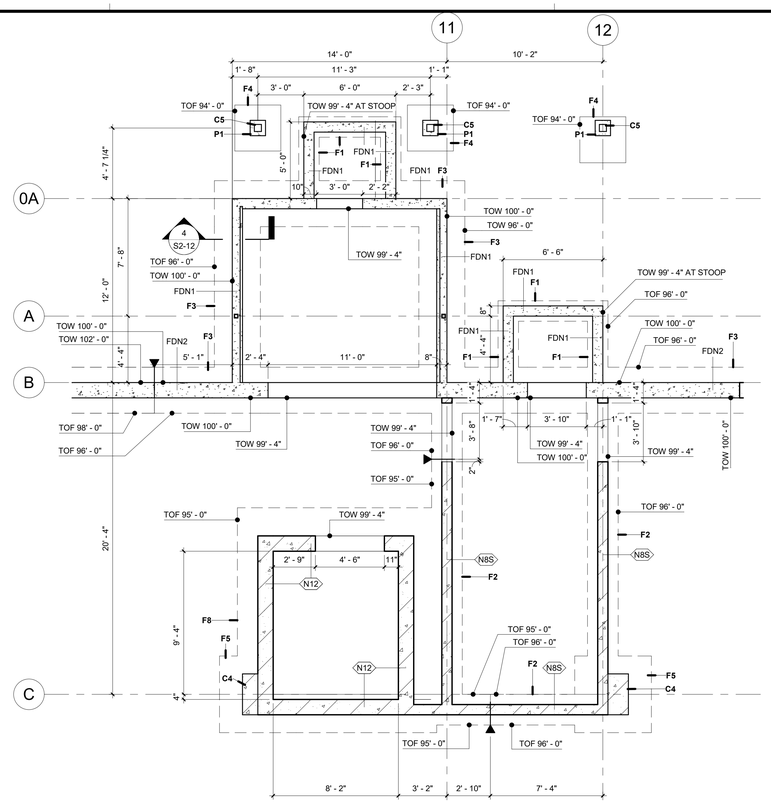
STRUCTURAL SCHEDULES

SHEET

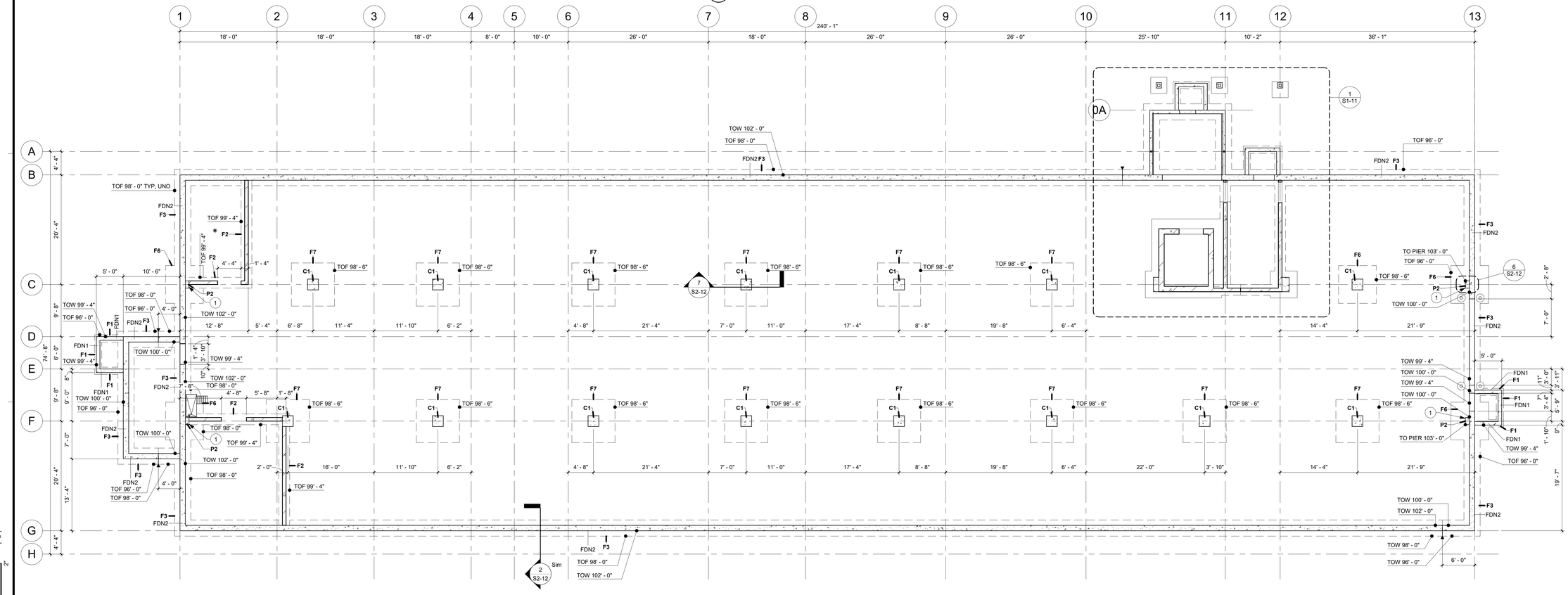
S1-01

KEYNOTE LEGEND

1	VERIFY PIER WIDTH NEEDED BY PRECAST SUPPLIER. PIER TO CONTINUE TO UNDERSIDE OF PRECAST BEAM ABOVE.



1 FOUNDATION PLAN - LOBBY & ELEVATOR AREA
1/4" = 1'-0"



1 S1-11
4 S2-12
7 S2-12
6 S2-12
2 S2-12 Sim

2 FOUNDATION PLAN
1/8" = 1'-0"

N

REFERENCE SCALE
1" = 1'
0 1/4" 1/2" 1" 2"

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PROJECT

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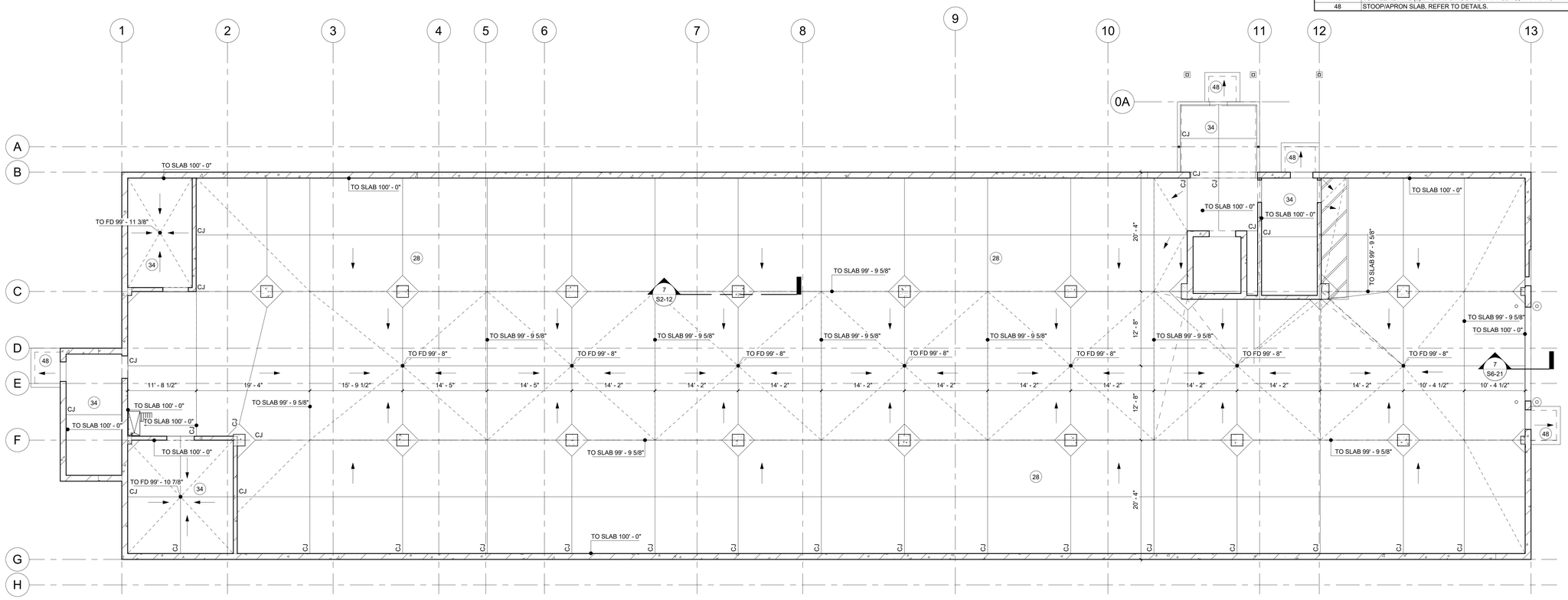
FOUNDATION PLAN

SHEET

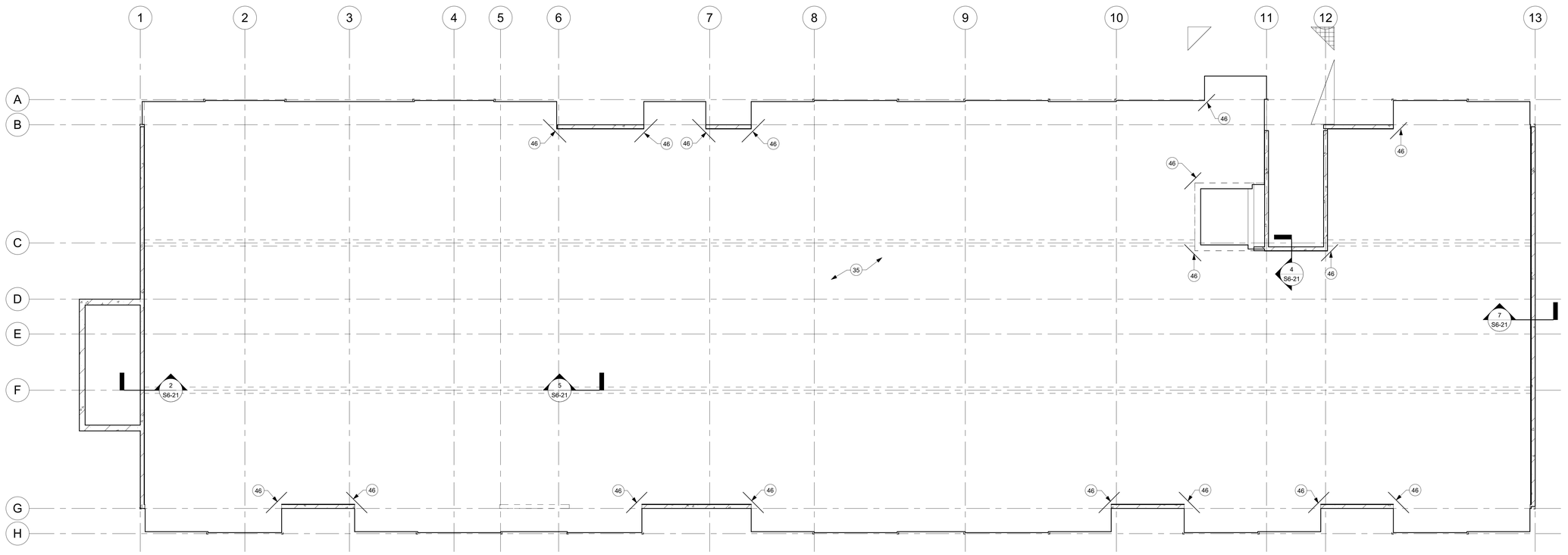
S1-11

KEYNOTE LEGEND

28	5" CONCRETE SLAB W/ MACROSYNTHETIC FIBERS OVER 6 MIL VAPOR RETARDER, FIBER DOSAGE TO BE DETERMINED BY CONCRETE SUPPLIER
34	4" CONCRETE SLAB W/ #4 BARS @ 18" OCEW
35	4" CONCRETE TOPPING WITH 4X4 MACROCYNTHETIC FIBERS REINFORCING, FIBER DOSAGE TO BE DETERMINED BY CONCRETE SUPPLIER
46	SUPPLEMENTAL (2) #4 BARS DIAGONAL X 4FT LONG, TYP AT TOPPING CORNERS
48	STOOP/APRON SLAB, REFER TO DETAILS.



1 GROUND/PARKING LEVEL
1/8" = 1'-0"



2 SECOND FLOOR SLAB/TOPPING PLAN
1/8" = 1'-0"

REFERENCE SCALE
1" = 1'-0"
0 1/4" 1/2" 1" 2"

N

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PROJECT

5TH WARD RESIDENCES

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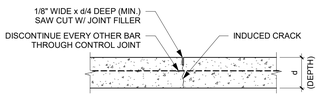
SLAB/TOPPING PLANS

SHEET

S1-12

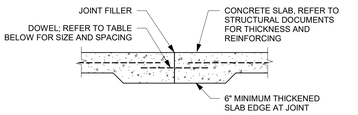


TYPICAL CONTROL JOINT SPACING AND JOINT DEPTH

REINFORCED SLAB DEPTH	PREFERRED SPACING	CONTROL JOINT DEPTH (MIN.)
4"	8' TO 12'	1"
5"	10' TO 15'	1.25"
6"	12' TO 18'	1.5"
7"	14' TO 21'	1.75"
≥ 8"	16' TO 24'	2"

REFER TO CONTROL JOINT PLACEMENT GUIDE FOR ADDITIONAL CONTROL JOINT INFORMATION.

1 TYPICAL CONTROL JOINT DETAIL
1" = 1'-0"

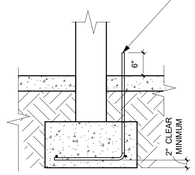


DOWEL SIZE AND SPACING FOR CONSTRUCTION JOINTS

	DOWEL DIMENSIONS			DOWEL SPACING (CENTER-TO-CENTER)		
SLAB DEPTH	ROUND	SQUARE	PLATE DOWEL	ROUND	SQUARE	PLATE DOWEL
5" TO 6"	3/4"Ø x 10"	3/4" x 10"	M/R*	12"	14"	18"
7" TO 8"	1"Ø x 13"	1" x 13"	M/R*	12"	14"	18"
9" TO 11"	1 1/4"Ø x 15"	1 1/4" x 15"	M/R*	12"	12"	18"

*M/R = MANUFACTURER'S RECOMMENDATIONS. BECAUSE OF THE VARIOUS PLATE DOWEL GEOMETRIES AND INSTALLATION DEVICES AVAILABLE FROM DIFFERENT MANUFACTURERS, THE MANUFACTURERS SHOULD BE CONSULTED FOR THEIR RECOMMENDED PLATE DOWEL SIZE.

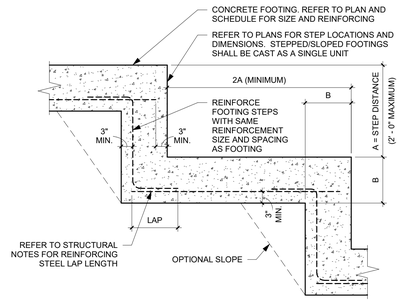
2 TYPICAL CONSTRUCTION JOINT DETAIL
1" = 1'-0"



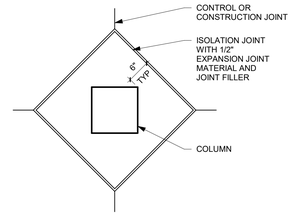
NOTES:

1. PURPOSE OF DETAIL IS TO INDICATE TYPICAL GROUNDING ELECTRODE INFORMATION ONLY AND DOES NOT REFLECT ACTUAL FOUNDATION CONSTRUCTION; REFER TO PLANS, SECTIONS, AND DETAILS FOR FOUNDATION CONSTRUCTION INFORMATION.
2. SUPPLY AND INSTALL GROUNDING ELECTRODE FOR GROUNDING OF ELECTRICAL SERVICE AS REQUIRED BY ELECTRICAL DOCUMENTS.

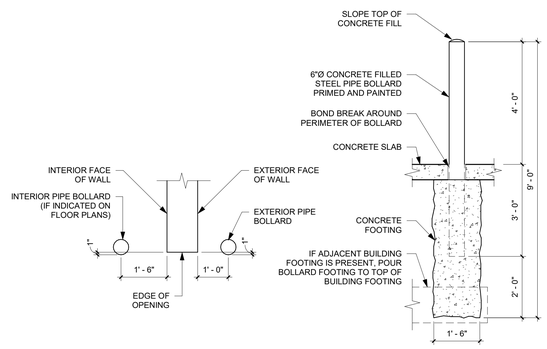
3 GROUNDING ELECTRODE DETAIL
3/4" = 1'-0"



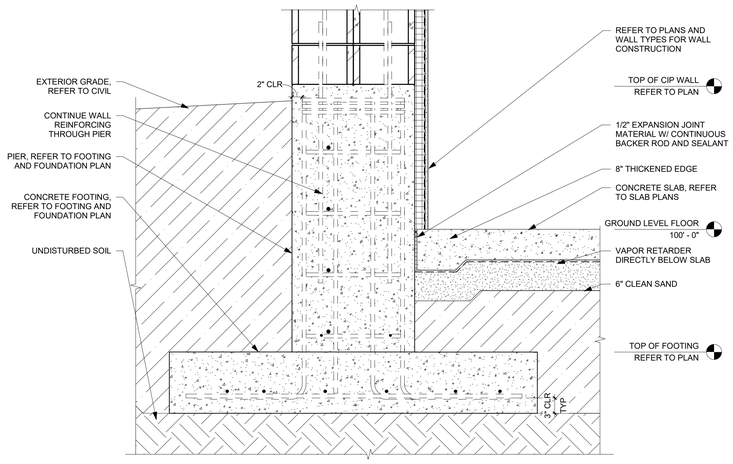
4 STEPPED FOOTING DETAIL
3/4" = 1'-0"



5 FLOOR/COLUMN ISOLATION JOINT DETAIL
3/4" = 1'-0"



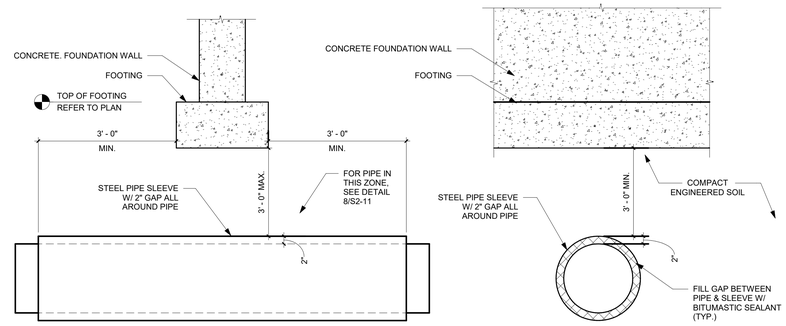
6 PIPE BOLLARD DETAIL
1/2" = 1'-0"



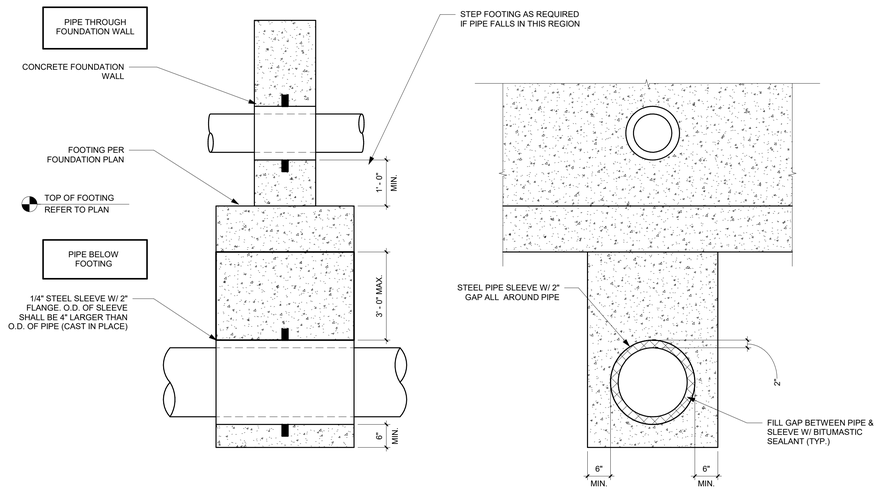
7 PIER FOOTING SECTION
1" = 1'-0"

DETAIL NOTES:

1. COORDINATE LOCATION OF PIPES W/ CIVIL & MECHANICAL DRAWINGS.
2. PIPES THROUGH FOOTING ARE NOT PERMITTED. STEP FOOTING AS REQUIRED



8 MECHANICAL LINE OVER 3' UNDER FOOTING DETAIL
3/4" = 1'-0"



9 MECHANICAL LINE UNDER FOOTING DETAIL
3/4" = 1'-0"

REFERENCE SCALE
1" = 1'-0"
0 1/4" 1/2" 1" 2"

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5TH WARD RESIDENCES

72 UNIT APARTMENT BUILDING

LA CROSSE WISCONSIN

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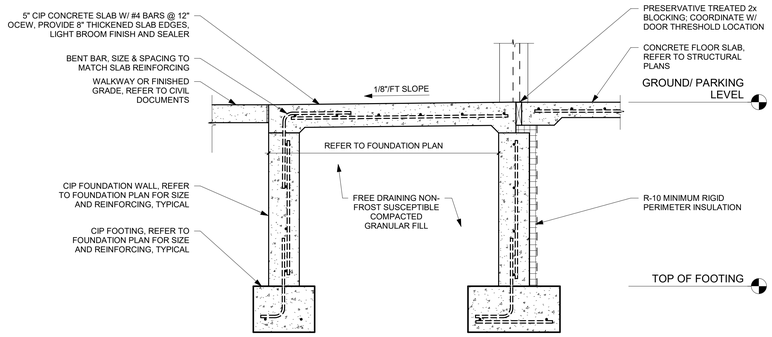
TITLE

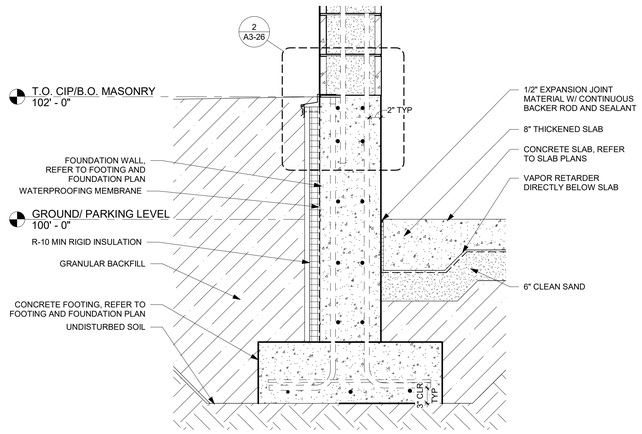
FOOTING AND FOUNDATION DETAILS

SHEET

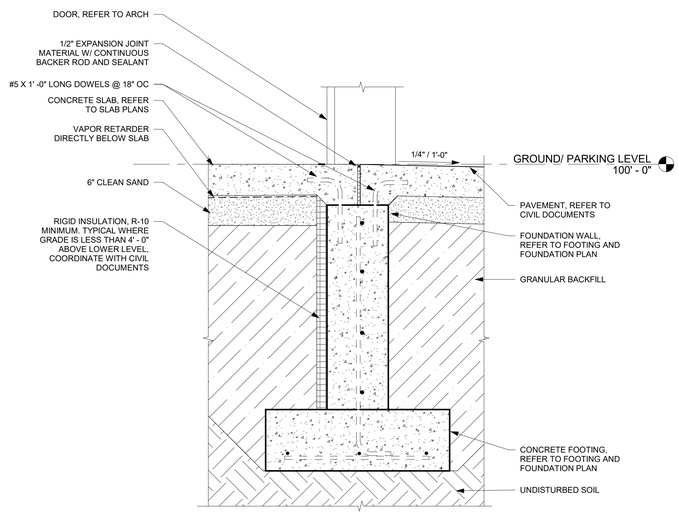
S2-11



1 TYPICAL CIP STOOP DETAIL
3/4" = 1'-0"

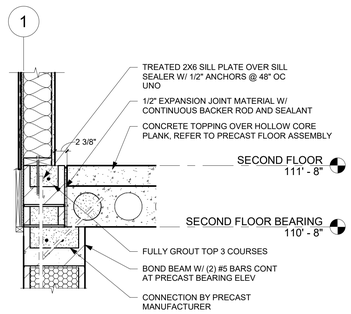


2 TYPICAL FOOTING SECTION
1" = 1'-0"



3 DRIVE APRON DETAIL
1" = 1'-0"

4 TYPICAL FOUNDATION WALL AT WOOD STUD
1" = 1'-0"



5 TOP OF CMU WALL SECTION
1" = 1'-0"

6 PRECAST BEAM BEARING DETAIL
3/4" = 1'-0"

7 TYPICAL COLUMN FOOTING SECTION
3/4" = 1'-0"

REFERENCE SCALE
1" = 1"
2"
1"
0 1/4" 1/2"

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FOOTING AND FOUNDATION DETAILS

SHEET

S2-12

PRECAST LOADING LEGEND

CONCENTRATED POINT LOAD

MARK	DEAD LOAD	SNOW LOAD	LIVE LOAD
B	5.7 K	1.9 K	6.6 K
D	5.1 K	2.3 K	14.4 K

SUPERIMPOSED UNIFORM LINE LOAD

MARK	DEAD LOAD	SNOW LOAD	LIVE LOAD
A	2.5 KLF	0.8 KLF	2.4 KLF
C	1.5 KLF	0.0 KLF	3.1 KLF
E	1.1 KLF	0.2 KLF	0.8 KLF
F	1.1 KLF	0.25 KLF	0.7 KLF

SHEAR WALL LOADING

L	LATERAL SHEAR LOAD = 500 PLF END REACTIONS = 10 K IN UP OR DOWNWARD DIRECTIONS
M	LATERAL SHEAR LOAD = 750 PLF END REACTIONS = 17 K IN UP OR DOWNWARD DIRECTIONS

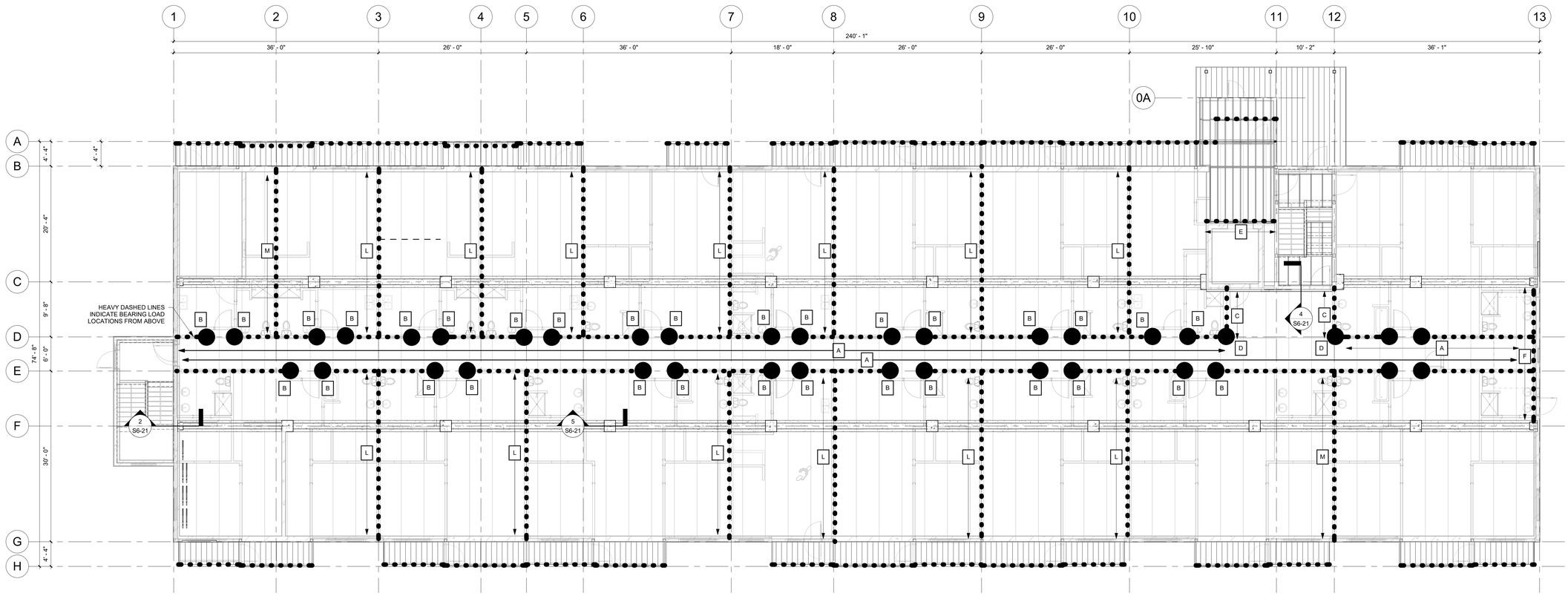
TYPICAL SUPERIMPOSED FLOOR LOADING

SELF WEIGHT DL + 4" STRUCTURAL TOPPING

40 psf LL RESIDENTIAL ROOMS

100 psf LL LOBBY/CORRIDOR

132 plf DL CANTILEVERED PLANK ENDS



1 FIRST FLOOR PRECAST LOADING PLAN
1/8" = 1'-0"

REFRENCE SCALE
1" = 1'
0 1/4" 1/2" 1" 2"

N

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SECOND FLOOR PRECAST LOADING PLAN

SHEET

S3-11

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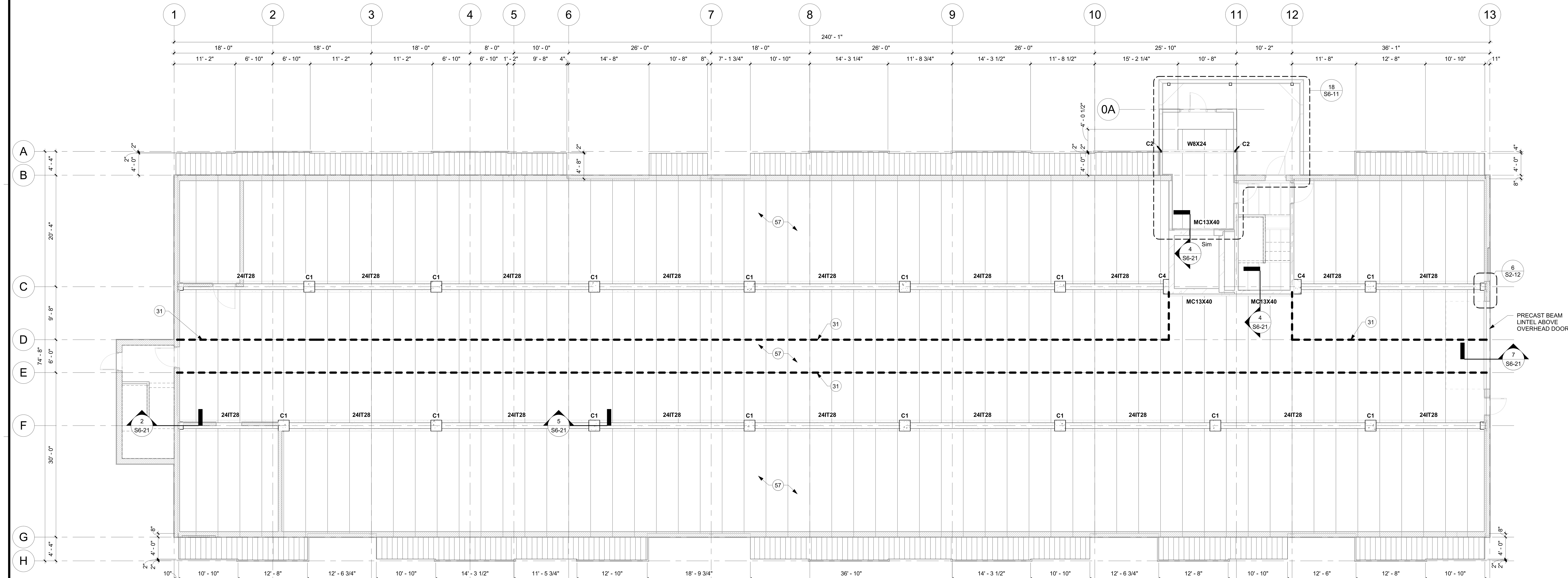
SHEET NOTES

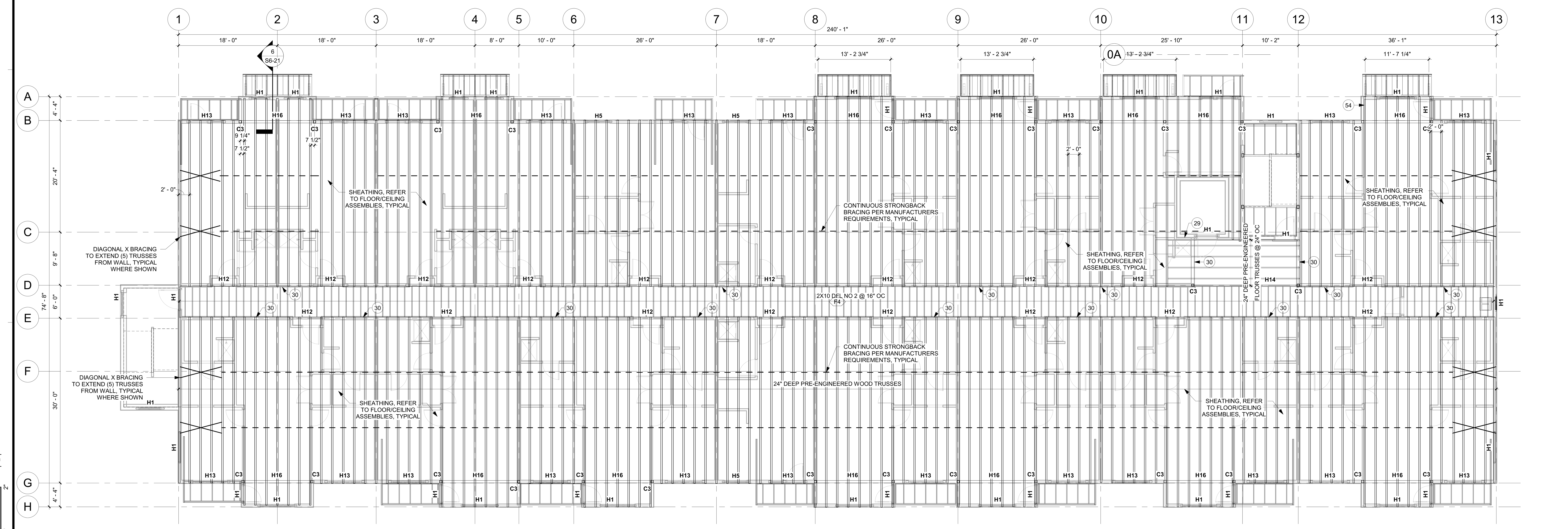
1. ALL PRECAST SIZES ARE SHOWN AS REPRESENTATIVE ONLY. SIZES AND REINFORCING TO BE DETERMINED BY PRECAST SUPPLIER AND COORDINATED WITH CONTRACTOR.

KEYNOTE LEGEND

29	GIRDER TRUSS
30	INTERIOR LOAD BEARING WALL
31	HEAVY DASHED LINE INDICATES BEARING LOAD LOCATIONS FROM ABOVE
54	GABLE END FLOOR TRUSS
57	12" HOLLOW CORE PLANK WITH 4" TOPPING



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



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

N

REFERENCE SCALE 1" = 1"

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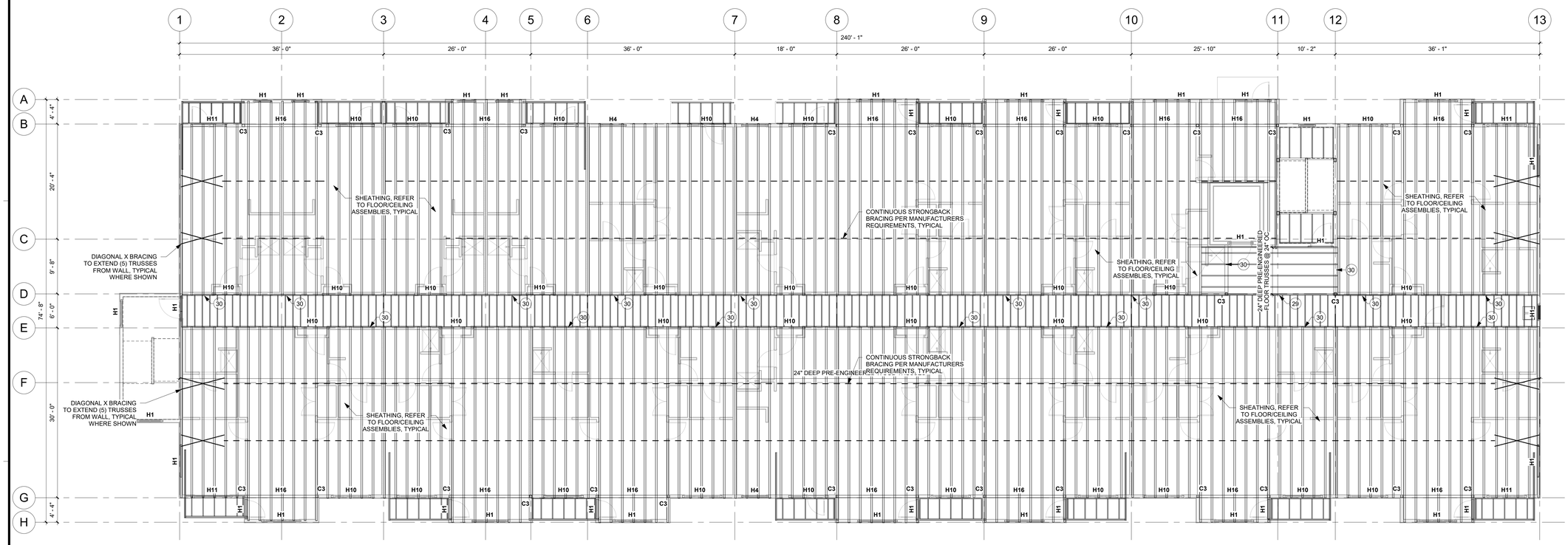
SECOND AND THIRD FLOOR FRAMING PLAN

SHEET

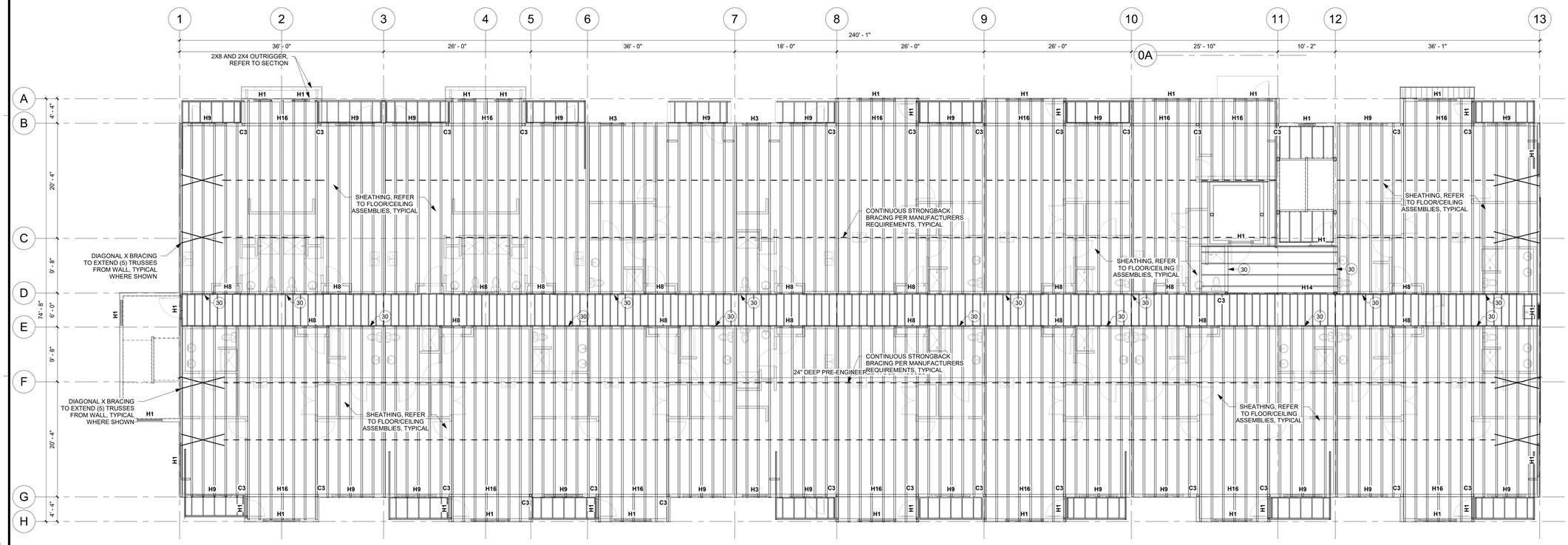
S3-21

KEYNOTE LEGEND

29	GIRDER TRUSS
30	INTERIOR LOAD BEARING WALL



1 FOURTH FLOOR FRAMING PLAN
1/8" = 1'-0"



2 FIFTH FLOOR FRAMING PLAN
1/8" = 1'-0"

REFERENCE SCALE
1" = 1'
2"
1"
1/4" 1/2"
0

N

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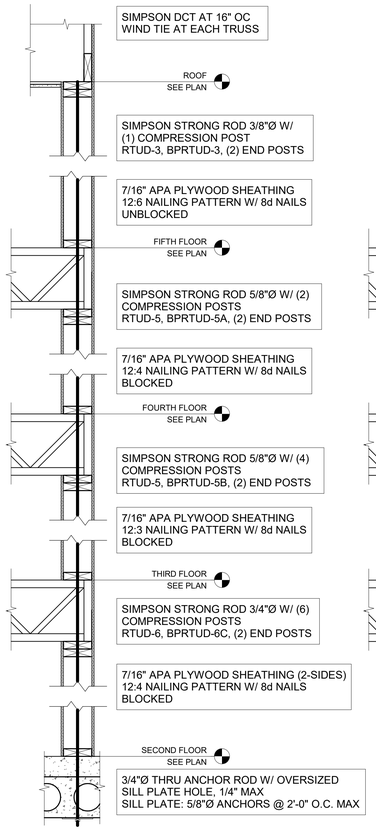
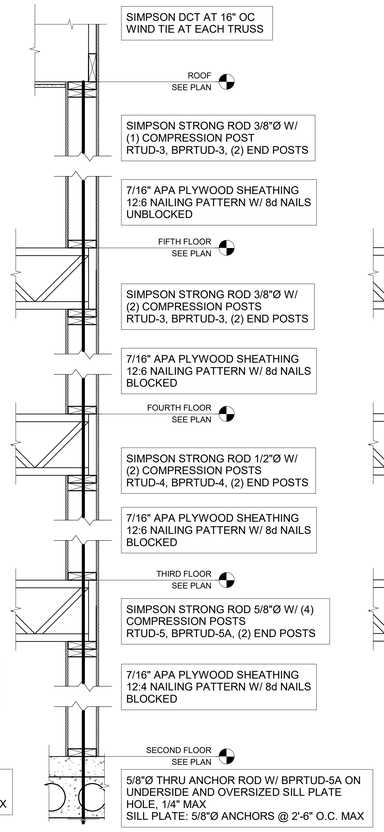
FOURTH AND FIFTH FLOOR FRAMING PLAN

SHEET

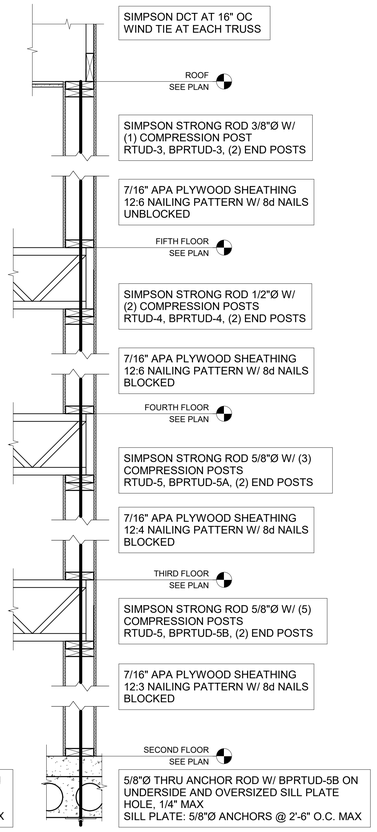
S3-22



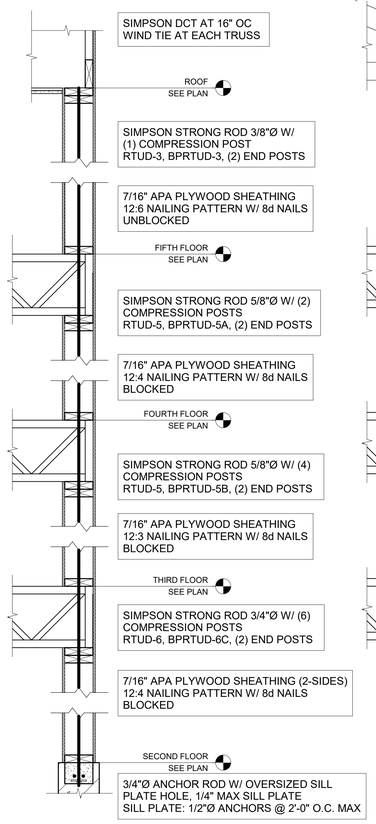
2 SHEAR WALL A
1" = 1'-0"



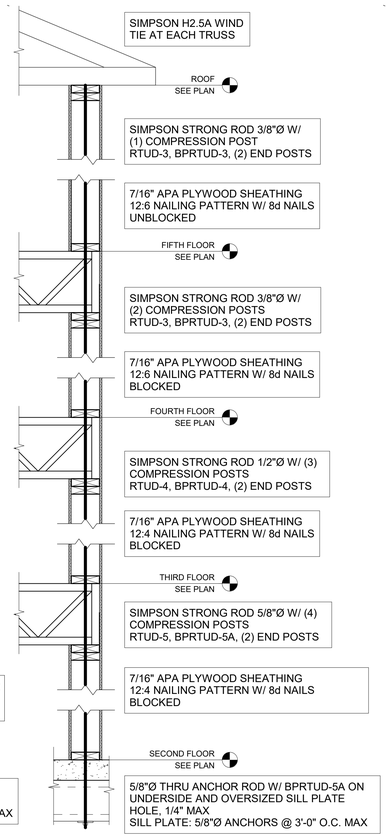
3 SHEAR WALL B
1" = 1'-0"



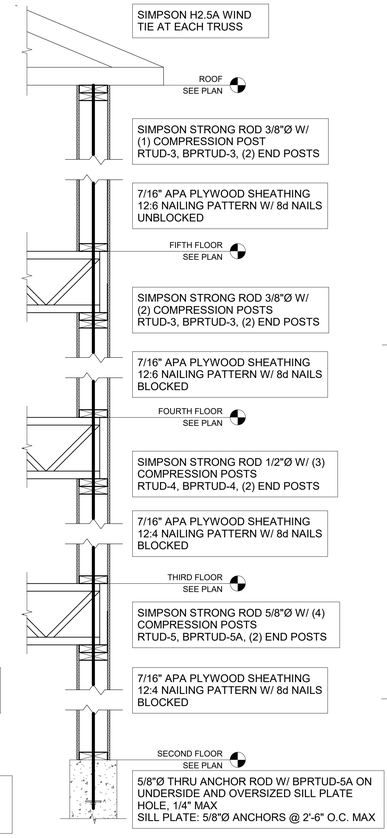
4 SHEAR WALL C
1" = 1'-0"



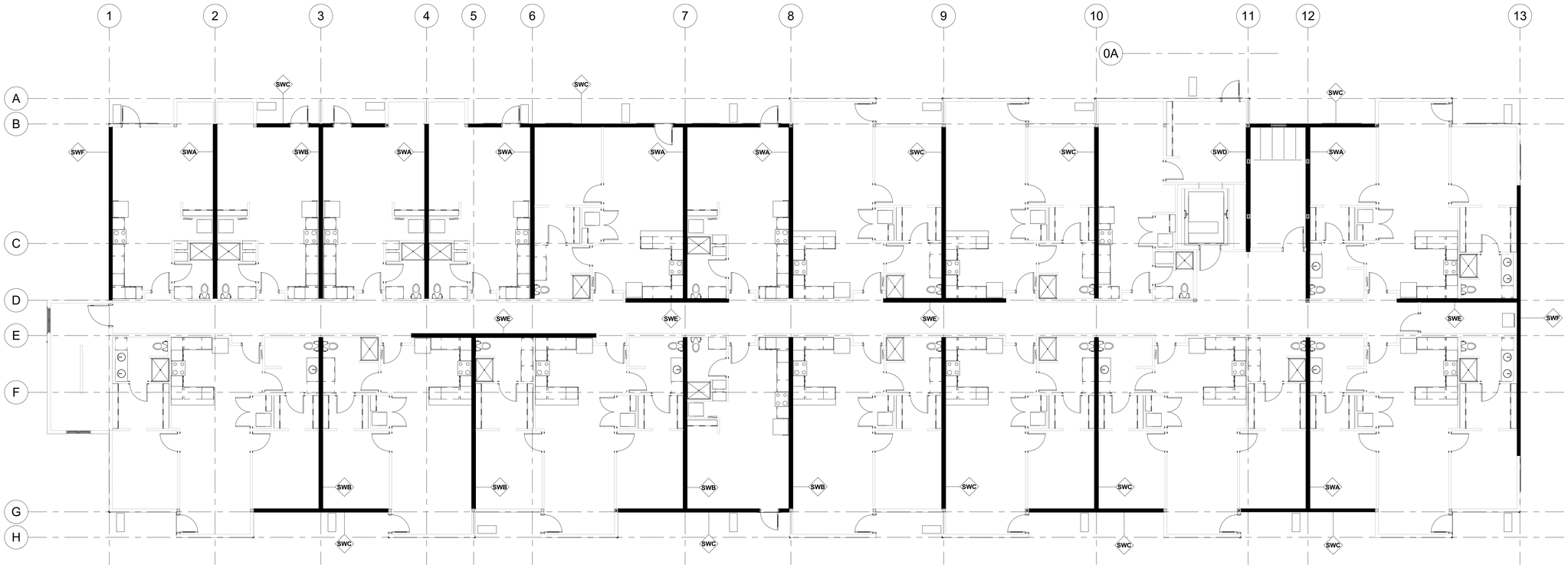
5 SHEAR WALL D
1" = 1'-0"



6 SHEAR WALL E
1" = 1'-0"



7 SHEAR WALL F
1" = 1'-0"



1 SHEAR WALL FRAMING PLAN
1/8" = 1'-0"

REFERENCE SCALE
1" = 1'
0 1/4" 1/2" 1" 2"

N

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ISG

PROJECT

5TH WARD RESIDENCES

72 UNIT APARTMENT BUILDING

LA CROSSE WISCONSIN

REVISION SCHEDULE

DATE	DESCRIPTION	BY

PROJECT NO.	20-24403
FILE NAME	24403 Apartments Arch- R20.rvt
DRAWN BY	KSS
DESIGNED BY	DCM
REVIEWED BY	DCM
ORIGINAL ISSUE DATE	09/15/2021
CLIENT PROJECT NO.	

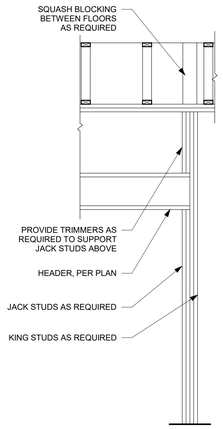
TITLE

SHEAR WALL PLAN AND DETAILS

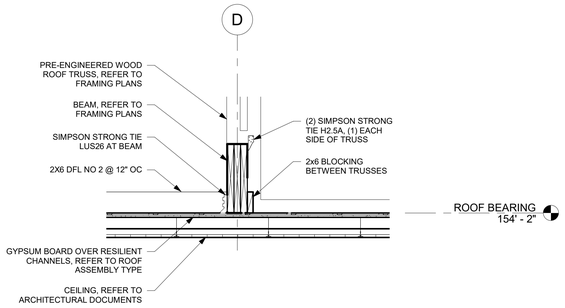
SHEET

S3-31

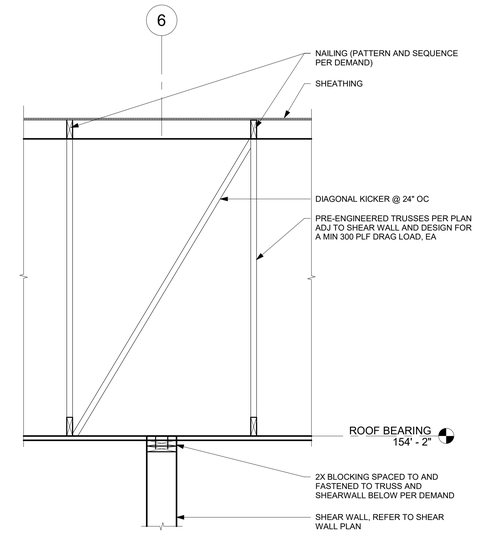
KEYNOTE LEGEND	
29	GIRDER TRUSS
30	INTERIOR LOAD BEARING WALL
33	CUT IN (2) 48" X TRUSS SPACE WIDTH VENTING HOLES IN SHEATHING OF MAIN ROOF TO ALLOW VENTING THROUGH GABLES, TYPICAL. (1) EACH SIDE OF GABLE RIDGE
58	CONTINUE COLUMN FROM ROOF TO FOUNDATION WALL BELOW



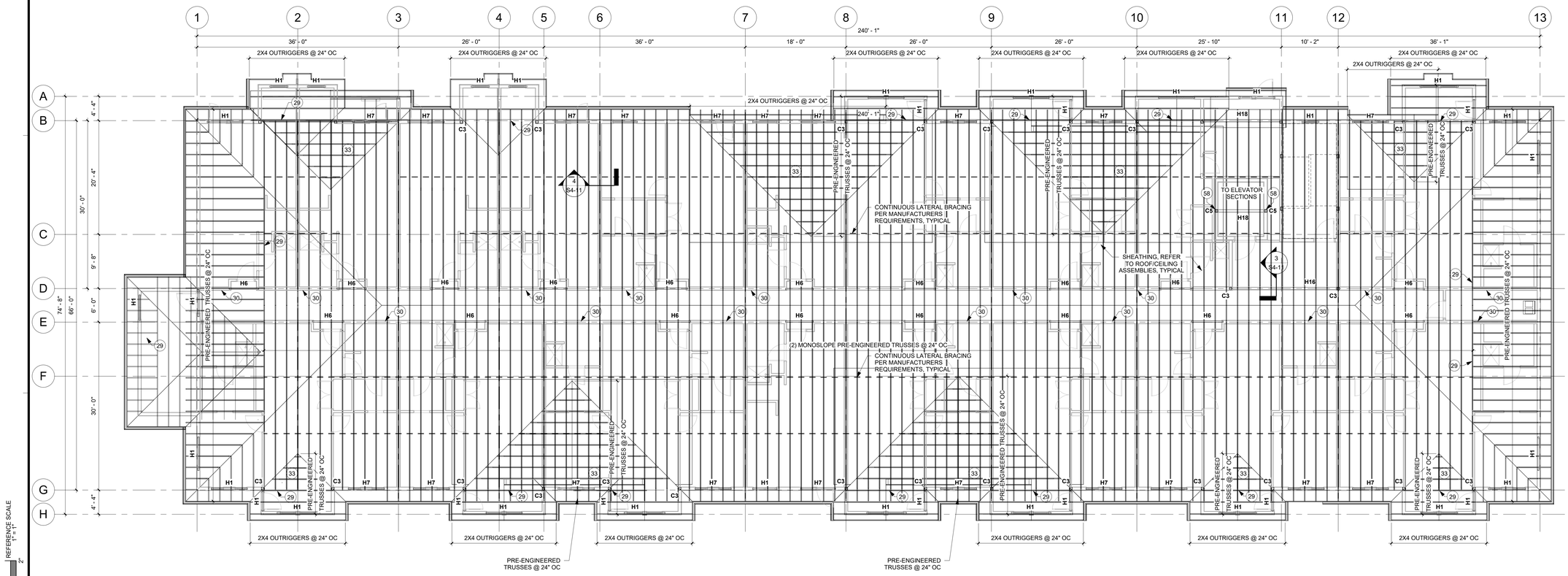
2 HEADER DETAIL
1/2" = 1'-0"



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



4 TYPICAL ROOF TRUSS CONNECTION TO SHEAR WALL
3/4" = 1'-0"



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

REFERENCE SCALE
1" = 1'
2"
1'
1 1/4" 1/2"
0

N

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PROJECT

5TH WARD RESIDENCES

72 UNIT APARTMENT BUILDING

LA CROSSE WISCONSIN

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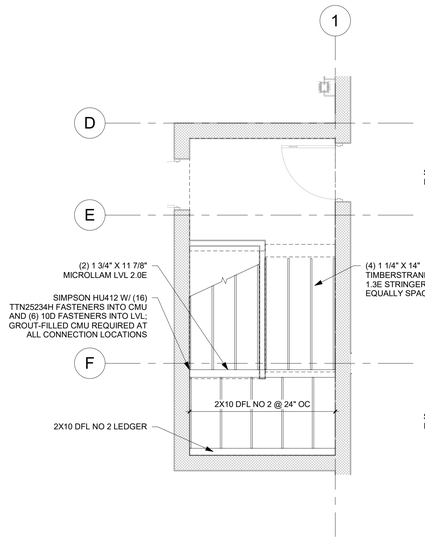
TITLE

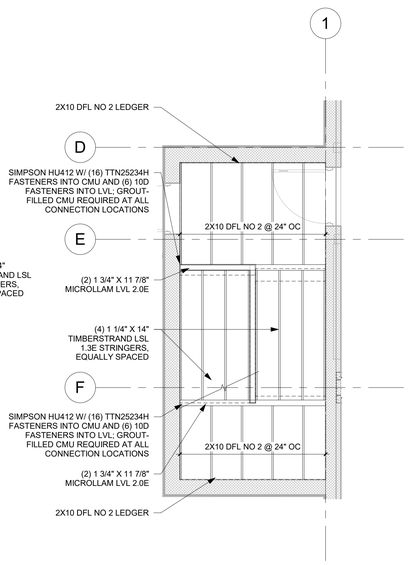
ROOF FRAMING PLAN

SHEET

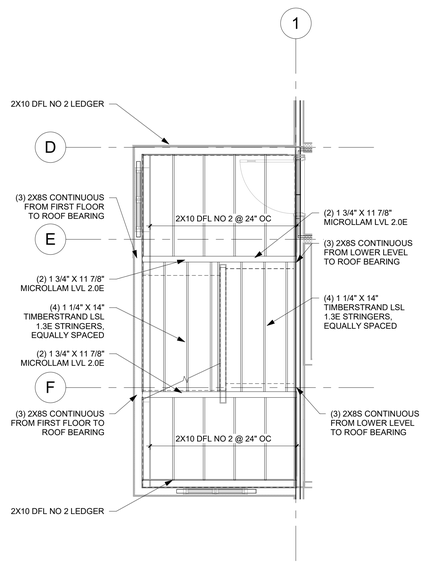
S4-11



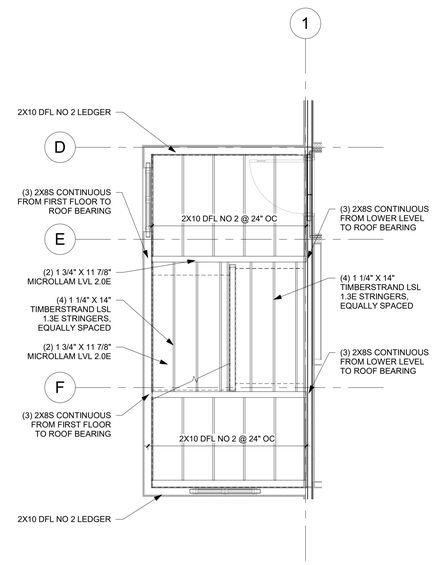
1 STAIR A LOWER LEVEL FRAMING PLAN
1/4" = 1'-0"



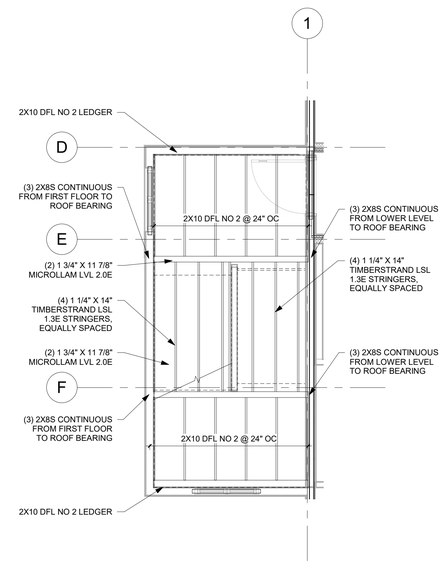
2 STAIR A FIRST FLOOR FRAMING PLAN
1/4" = 1'-0"



3 STAIR A SECOND FLOOR FRAMING PLAN
1/4" = 1'-0"



4 STAIR A THIRD FLOOR FRAMING PLAN
1/4" = 1'-0"



5 STAIR A FOURTH FLOOR FRAMING PLAN
1/4" = 1'-0"

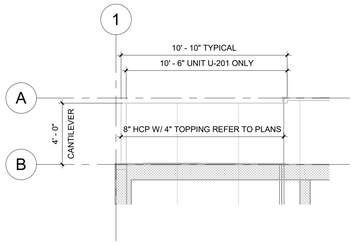
6 STAIR B LOWER LEVEL FRAMING PLAN
1/4" = 1'-0"

7 STAIR B FIRST FLOOR FRAMING PLAN
1/4" = 1'-0"

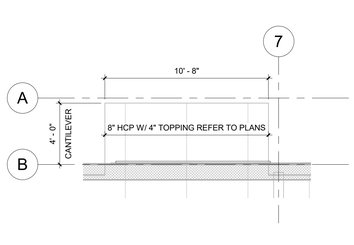
8 STAIR B SECOND FLOOR FRAMING PLAN
1/4" = 1'-0"

9 STAIR B THIRD FLOOR FRAMING PLAN
1/4" = 1'-0"

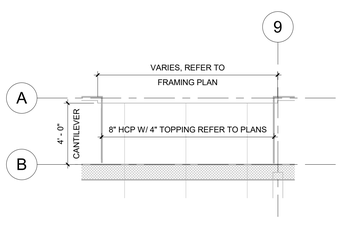
10 STAIR B FOURTH FLOOR FRAMING PLAN
1/4" = 1'-0"



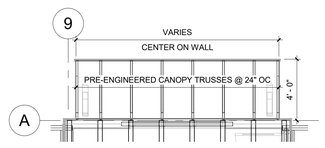
11 PATIO A FRAMING PLAN
1/4" = 1'-0"



12 PATIO B FRAMING PLAN
1/4" = 1'-0"



13 PATIO C FRAMING PLAN
1/4" = 1'-0"



14 CANOPY FRAMING PLAN
1/4" = 1'-0"

15 BALCONY D FRAMING PLAN
1/4" = 1'-0"

16 BALCONY E FRAMING PLAN
1/4" = 1'-0"

17 BALCONY H FRAMING PLAN
1/4" = 1'-0"

18 LOBBY ROOF FRAMING PLAN
1/4" = 1'-0"

REFERENCE SCALE
1" = 1'
2"
1"
1/4" = 1'-0"
0

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ISG

PROJECT

5TH WARD RESIDENCES

72 UNIT APARTMENT BUILDING

LA CROSSE WISCONSIN

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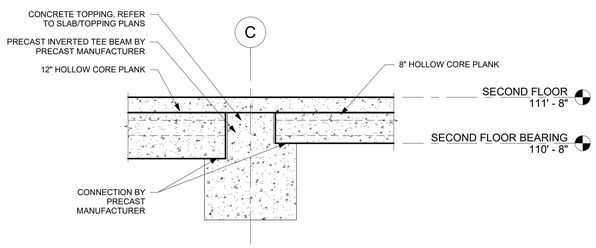
TITLE

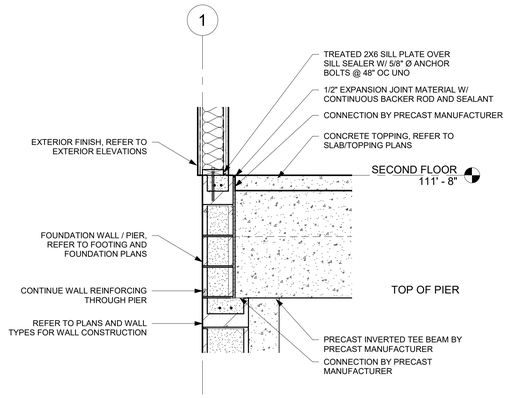
STAIR, BALCONY, AND CANOPY FRAMING PLANS

SHEET

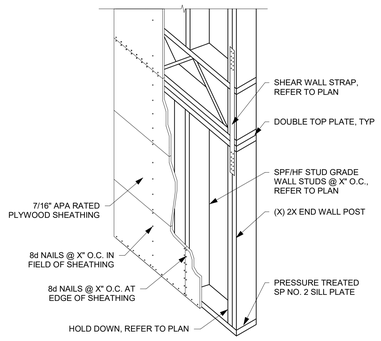
S6-11



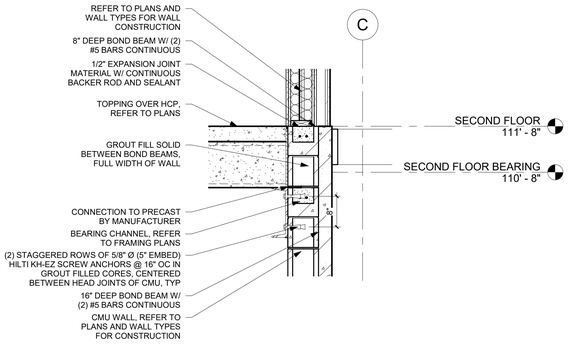
1 PRECAST BEAM SECTION
3/4" = 1'-0"



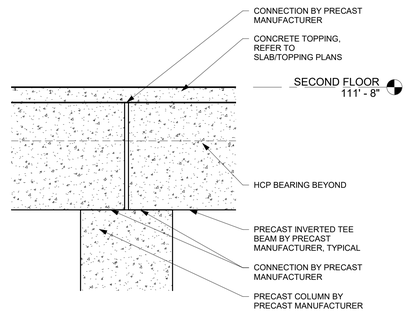
2 PRECAST BEAM BEARING AT PIER
3/4" = 1'-0"



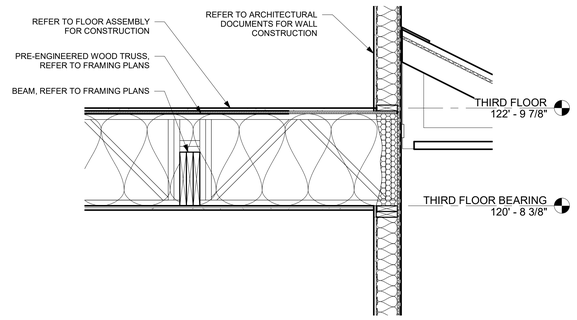
3 TYPICAL SHEAR WALL ISOMETRIC
3/4" = 1'-0"



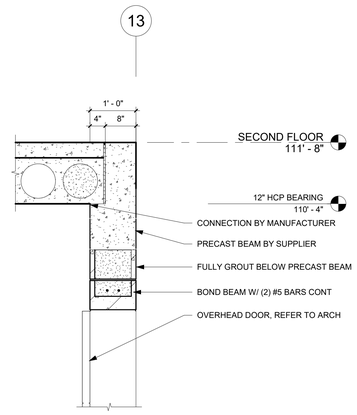
4 HCP BEARING AT INTERIOR CMU WALL
3/4" = 1'-0"



5 PRECAST BEAM BEARING AT COLUMN
3/4" = 1'-0"



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



7 PRECAST FLOOR AT OVERHEAD DOOR
3/4" = 1'-0"

REFERENCE SCALE
1" = 1'
0 1/4" 1/2" 1" 2"

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PROJECT

5TH WARD RESIDENCES

72 UNIT APARTMENT BUILDING

LA CROSSE WISCONSIN

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TITLE

FRAMING DETAILS

SHEET

S6-21