

RESTAURANT AND BED & BREAKFAST RENOVATION

1 CLUBHOUSE RD,
BROWNS MILLS, NJ

BUILDING DEPARTMENT DATA(COMMERCIAL) :

THIS PROJECT IS DESIGN UNDER THE MOST RECENT VERSION OF THE FOLLOWING CODES:

INTERNATIONAL BUILDING CODE 2021 N.J. EDITION = (REFERENCED SECTIONS IBC W/ NJ EDITS FROM 3.14)
UNIFORM CONSTRUCTION CODE. SUBCHAPTER 6, REHABILITATION SUBCODE = REFERENCED SECTION NJAC 5:23-6
INTERNATIONAL FUEL GAS CODE 2021
INTERNATIONAL MECHANICAL CODE 2021
NATIONAL STANDARD PLUMBING CODE 2021
NATIONAL ELECTRICAL CODE (NFPA 70) 2020
BARRIER-FREE SUBCODE CHAPTER 11 OF IBC 2021 & NJAC 5:23-7
ICC/ANSI A117.1 - 2009

BUILDING DEPARTMENT DATA(RESIDENTIAL) :

THIS PROJECT IS DESIGN UNDER THE MOST RECENT VERSION OF THE FOLLOWING CODES:

2021 INTERNATIONAL RESIDENTIAL CODE (IRC W/ NEW JERSEY EDITS FROM 3.21)
2021 INTERNATIONAL MECHANICAL CODE
2021 NATIONAL STANDARD PLUMBING CODE
2021 NATIONAL ELECTRICAL CODE
2021 INTERNATIONAL FUEL GAS CODE
INTERNATIONAL ENERGY CONSERVATION CODE 2021 - (LOW-RISE RESIDENTIAL)
DESIGN WIND SPEED (3 SECOND GUST) 115 MPH OR LESS UNLESS OTHERWISE NOTED DESIGN WIND EXPOSURE "B" UNLESS OTHERWISE NOTED
IMPORTANCE FACTOR "STANDARD - RESIDENTIAL" UNLESS OTHERWISE NOTED

TYPE OF WORK: BUILDING RENOVATION (BAR AND RESTAURANT 1ST FLOOR AND BEAD AND BREAKFAST

DESCRIPTION : ADDITION/PARTITIONS/PLUMBING/ELECTRIC

USE GROUP CLASSIFICATION: B- R2 CHANGES OF USE PROPOSED: NO ACTUAL USE: MIX PROPOSED USE: NO

BUILDING CHARACTERISTICS (TABLE 504.4, 504.2)

	ALLOWABLE	PROPOSED / EXISTING	COMMENTS
TYPE OF CONSTRUCTION	IIIB	IIIB	NONE
No. OF STORIES	3	3	NONE
BUILDING AREA:	5712 SF	-	NONE
BUILDING HEIGHT:	33'	SAME	NONE

AREAS BREAKDOWN	SPACE	SQUARE FEET	PROPOSED SQUARE FEET
	BASEMENT	616	-
	FIRST FLOOR	927	-
	SECOND FLOOR	2205	-
	THIRD FLOOR	1964	-

DESIGN LOADS	INTERNATIONAL RESIDENTIAL CODE 2021
FLOOR	= 40 PSF(L.L.) + 20 PSF(D.L.) = 60 PSF(T.L.)
ROOF	= 30 PSF(L.L.) + 10 PSF(D.L.) = 40 PSF(T.L.)
DECKS	= 40 PSF(L.L.) + 10 PSF(D.L.) = 50 PSF(T.L.)
STAIRS	= 100 PSF(L.L.) + 10 PSF(D.L.) = 110 PSF(T.L.)
HANDRAILS	= 50 PLF IN ANY DIRECTION, OR A POINT LOAD OF 200 LBS. APPLIED IN ANY DIRECTION.
WIND LOADS	= 115 M.P.H (3 SECOND GUST) // 20 PSF HORIZ. // 6 PSF UPLIFT
SNOW LOADS	= 35 PSF (L.L.) HORIZ.

SHEET LIST	SHEET NUMBER	SHEET NAME	DETAIL
	CS	COVER SHEET	DETAIL: NOTES
	GN	GENERAL NOTES	DETAIL: NOTES
	LS	LIFE SAFETY	DETAIL: NOTES
	ST	STAIRS NOTES	DETAIL: NOTES
	A-1	FLOOR PLANS	DETAIL: NOTES / CODES
	A-2	FLOOR PLANS	DETAIL: NOTES / DETAILS
	A-3	FLOOR PLANS	DETAIL: NOTES / DETAILS
	A-4	ELEVATION	DETAIL: NOTES / DETAILS
	A-5	DETAILS	DETAIL: NOTES / DETAILS
	A-6	ENLARGED BATHROOM	DETAIL: NOTES / DETAILS
	E-1	ELECTRICAL PLAN	DETAIL: NOTES / DETAILS
	E-2	ELECTRICAL PLAN	DETAIL: NOTES / DETAILS
	E-3	ELECTRICAL PLAN	DETAIL: NOTES / DETAILS
	E-4	ELECTRICAL PLAN	DETAIL: NOTES / DETAILS
	P-1	PLUMBING	DETAIL: NOTES / DETAILS
	M-1	DIAGRAMS	DETAIL: NOTES / DETAILS
	F-1	FIRE ALARM PLAN	DETAIL: NOTES / DETAILS
	F-2	FIRE ALARM PLAN	DETAIL: NOTES / DETAILS
	F-3	FIRE ALARM PLAN	DETAIL: NOTES / DETAILS

GENERAL

- CONTRACTOR(S) SHALL COMPLY WITH ALL APPLICABLE CODES, LAWS, ORDINANCES, RULES AND REGULATIONS INCLUDING STATE AND LOCAL CODES.
- CONTRACTOR(S) SHALL BE RESPONSIBLE FOR ALL MATERIALS AND METHODS OF CONSTRUCTION, WHETHER IT BE THEIR OWN OR THAT OF THEIR EMPLOYEES OR SUB-CONTRACTORS.
- CONTRACTOR(S) SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS, AND NEW CONDITIONS AND DIMENSIONS IN THE FIELD AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN ACTUAL AND THOSE SHOWN ON THE DRAWINGS, BEFORE THE BID IS SUBMITTED.
- CONTRACTOR(S) SHALL BE RESPONSIBLE FOR ANY ADJACENT AREAS TO REMAIN AND SHALL BE RESPONSIBLE FOR CORRECTING ANY DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION.
- CONTRACTOR(S) SHALL PROCURE AND PAY FOR ALL APPLICABLE PERMITS.
- CONTRACTOR(S) SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS FROM PREMISES.
- ARCHITECT IS NOT RESPONSIBLE FOR FOR ANY CHANGES MADE WHICH DEVIATE FROM THE DRAWINGS, WHETHER INITIATED BY OWNER, CONTRACTOR, OR BOTH, UNLESS AGREED UPON BY ARCHITECT IN WRITING.
- CONTRACTOR(S) SHALL GUARANTEE WORK FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION.
- CONTRACTOR(S) SHALL MAINTAIN APPROPRIATE INSURANCE FOR THIS PROJECT. 10. ANY ADDENDA OF MODIFICATION ISSUED BY THE ARCHITECT SHALL BECOME IMMEDIATELY INCORPORATED INTO THE WORK AS IF ORIGINALLY INCLUDED HEREWITH.
- ONLY THOSE AREAS AS DESIGNATED BY THE OWNER SHALL BE USED FOR THE STORAGE OF CONSTRUCTION EQUIPMENT AND MATERIALS.
- THE ARCHITECT SHALL BE HELD HARMLESS BY ALL PARTIES AGAINST ANY CLAIMS THAT MAY ARISE OUT OF CONSTRUCTION PROCEDURES OR ACTIVITIES.
- ANY ITEMS REQUIRING CLARIFICATION OR A DECISION BY THE ARCHITECT SHALL BE ADDRESSED BY THE ARCHITECT IN WRITING OR IN THE FORM OF A DETAIL, VERBAL RESOLUTIONS ARE NOT BINDING.
- IF CONTRACTOR PROPOSES A SUBSTITUTION FOR ANY OF THE MATERIALS OR EQUIPMENT SPECIFIED, INFORMATION OR SAMPLES, TO DETERMINE IF THE SUBSTITUTE IS ACCEPTABLE AND EQUAL TO THE SPECIFIED ITEM, SHALL BE SUBMITTED TO THE ARCHITECT. THE ARCHITECT SHALL DETERMINE IF ANY ITEM IS ACCEPTABLE OR EQUAL. HOWEVER THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PERFORMANCE OF THE ITEM. REJECTED ITEMS SHALL NOT BE USED UNDER ANY CIRCUMSTANCE.
- GENERAL CONTRACTOR SHALL PROVIDE CLEANING OF ALL GLASS, PAINTED OR FINISHED SURFACES, HARDWARE, MASONRY, ETC. FOLLOWING THE COMPLETION OF CLEAN UP. SHOULD ANY CONTRACTOR MARK OR LITER ANY AREAS CLEANED, THE CONTRACTOR RESPONSIBLE SHALL CLEAN SAID AREAS TO THE SATISFACTION OF THE OWNER.

DRAWINGS & DIMENSIONS

- DRAWINGS SHALL NOT BE SCALED.
- DIMENSIONS WITH A PLUS/MINUS SYMBOL (+/-) IN FRONT OF THE DIMENSION REPRESENT AN APPROXIMATE DIMENSION, THESE DIMENSIONS MUST BE FIELD VERIFIED. SOME OF THE DIMENSIONS ARE TO ASSIST IN THE BIDDING PROCESS. COORDINATE THESE DIMENSIONS WITH "ALIGN" AND "HOLD" NOTES.
- DIMENSIONS WITH A "HOLD" NOTE REPRESENT A DIMENSION THAT MUST BE HELD, THESE DIMENSIONS MUST NOT BE INCREASED OR DECREASED. ADJACENT DIMENSIONS MAY BE ADJUSTED AS REQUIRED. COORDINATE THESE DIMENSIONS WITH "+/-" AND "ALIGN" NOTES.

DEMOLITION

- CONTRACTOR SHALL DEMOLISH AND REMOVE ITEMS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATION CONTRACTOR SHALL REMAIN RESPONSIBLE FOR ANY DEMOLITION AND/OR REMOVALS NOT SPECIFICALLY CALLED FOR ON THE DRAWINGS AND SPECS, BUT REQUIRED TO ACHIEVE THE FINAL DESIGN INTENT AS DELINEATED ON THE DRAWINGS AND SPECIFICATION.
- CONTRACTOR SHALL PROTECT ALL EXISTING CONSTRUCTION TO REMAIN DURING DEMOLITION AND FOR THE DURATION OF WORK, CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY DAMAGE WHICH MAY OCCUR TO THE EXISTING CONSTRUCTION TO REMAIN WHICH IS CAUSED BY HIM DURING
- CONTRACTOR SHALL PATCH AND/OR REPAIR ALL EXISTING ADJACENT CONSTRUCTION AS MAY BE DEMOLITION. REQUIRED AFTER DEMOLITION TO PROVIDE A COMPLETE FINISHED INSTALLATION.
- EACH TRADE WHETHER GENERAL CONTRACTOR OR SUBCONTRACTOR IS RESPONSIBLE FOR THEIR OWN CUTTING. ALL PATCHING SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- WHERE EXISTING LUMINARIES, ELECTRICAL RECEPTACLES, AND OTHER ELECTRICAL ITEMS ARE TO BE REMOVED, ALL ASSOCIATED SERVICES SHALL BE CAPPED OR REMOVED IN ACCORDANCE WITH ALL APPLICABLE CODES.
- ANY FURNITURE OR FURNISHING TO REMAIN DURING DEMOLITION OR CONSTRUCTION SHALL BE PROTECTED BY CONTRACTOR.
- CONTRACTOR IS RESPONSIBLE FOR FURNISHING, INSTALLING, AND MAINTAINING DUST BARRIERS TO PROTECT ADJACENT AREAS TO FROM DUST AND DEBRIS CAUSED BY CONSTRUCTION.
- PRIOR TO PERFORMING ANY DEMOLITION ACTIVITIES THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AT THE SITE AND NOTIFY THE OWNER OF ANY DISCREPANCIES ON THE DRAWINGS.
- REMOVE ELECTRICAL CABLES AS REQUIRED PER CODE.
- REMOVE PLUMBING AS REQUIRED PER CODE.
- COORDINATE ALL DEMOLITION WITH CONSTRUCTION PLAN.
- PATCH ALL HOLES LEFT BEHIND IN WALLS FROM THE REMOVAL OR RELOCATION OF SWITCHES AND RECEPTACLES.
- WIRING TO ELECTRICAL DEVICES TO BE REMOVED SHALL BE DISCONNECTED AND REMOVED FROM THE PANEL AND DISCARDED.

- SITE** GRADE SHALL BE SLOPED AWAY FROM DWELLING TO ALLOW FOR PROPER DRAINAGE.
- GRADE SHALL BE 8" MINIMUM FROM ANY WOOD OR SIDING MATERIALS.
 - CALL 1-800-272-1000 FOR UTILITY MARK OUT BEFORE ANY DIGGING IS PERFORMED.
 - COORDINATE ALL SITE WORK WITH A SITE PLAN TO BE PREPARED BY A LICENSED ENGINEER AND/OR SURVEYOR.
 - SOIL IS ASSUMED TO BE CLASS SW, SP, SM, SC, GM OR GC WITH A BEARING CAPACITY OF 3000 PSF.

FRAMING

- FRAMING LUMBER SHALL BE DOUGLAS FIR CONSTRUCTION GRADE WITH A MINIMUM OF 1,400 PSI FIBER STRENGTH. REFER TO DRAWINGS FOR THE SIZE OF MEMBERS.
- CARPENTERS SHALL INSPECT LUMBER, BEFORE INSTALLATION, TO CHECK FOR DEFECTS WARPING, BOWS, HORN KNOTS, AND HORIZONTAL SPLITTING.
- ALL DOOR AND WINDOW OPENINGS OVER 48" SHALL HAVE DOUBLE LINERS.
- ALL WOOD IN CONTACT WITH MASONRY AND ALL EXTERIOR DECK FRAMING SHALL BE SOUTHERN YELLOW PINE "PRESERVATIVE TREATED".
- GAPS & SPACES BETWEEN ALL STRUCTURAL MEMBERS SHALL NOT BE ALLOWED.
- ALL STRUCTURAL POSTS SHALL GO DOWN TO SOLID BEARING ON TOP OF FOUNDATION.
- ALL WALLS THAT ARE PARALLEL TO FLOOR JOISTS SHALL BE SUPPORTED BY DOUBLE JOISTS DIRECTLY BELOW.
- ALL FLUSH CONNECTIONS SHALL BE MADE WITH STEEL JOIST HANGERS FULLY NAILED.
- COORDINATE ALL GIRDER LOCATIONS WITH POINT LOADS FROM ABOVE.
- ALL ROUGH FRAMINGS SHALL BE CHECKED BEFORE ORDERING ANY ITEMS INCLUDING BUT NOT LIMITED TO CABINETRY, APPLIANCES, TUBS, SHOWERS, VANITIES, TOILETS, SHELVING AND FIREPLACES.
- PROVIDE 2-2x10' HEADER AT ALL WINDOWS AND DOORS UNLESS OTHERWISE NOTED.
- FLOOR JOISTS SHALL HAVE SOLID WOOD BLOCKING AT MID-SPANS. STEEL CROSSING MAY BE USED AT DUCT WORK LOCATIONS.
- ALL GIRDERS SHALL HAVE FULL BEARING TO WHAT EVER IS BELOW, WHERE GIRDERS BEAR ON A PLATE, THE WALL STUDS UNDERNEATH SHALL BE INSTALLED TO AT LEAST THE WIDTH OF THE GIRDER ABOVE.
- ALL PLUMB CUTS SHALL HAVE FLUSH BEARING.
- RIDGES AND LEDGERS SHALL PROVIDE RAFTERS WITH FULL BEARING AT PLUMB CUT.
- ALL GIRDER SHIMS ON PILASTERS OR IN BEAM POCKETS SHALL HAVE STEEL SHIMS ONLY.
- WIDTH OF PLATE FOR RAFTER SEAT CUTS SHALL BE WIDE ENOUGH TO ALLOW FOR FULL SEAT CUT BEARING.
- GIRDER ENDS IN CONTACT WITH MASONRY SHALL BE WRAPPED IN ALUMINUM.

INSULATION

- INSULATION SHALL BE FIBERGLASS WITH CRAFT PAPER VAPOR BARRIER.
- STUFF ALL WINDOW & DOOR CREVICES WITH LOOSE FIBERGLASS.
- INSULATION AT ALL EXTERIOR WALLS WHERE NO GYPSUM BOARD COVERING BEING INSTALLED MUST BE CAVITY FIRE RATED INSULATION.
- INSULATION PAPER SHALL BE INSTALLED TO ALLOW FOR PAPER TO CONTACT BACK OF GYPSUM BOARD.

INTERIOR FINISHES

- GYPSUM BOARD SHALL BE 1/2" (UNLESS NOTED OTHERWISE) FASTENED WITH SCREWS, DOUBLE SCREW ALL CEILINGS, TAPE AND SPACKLE THREE COATS AT ALL TAPERED JOINTS AND FOUR COATS AT BUTT SEAMS.
- INTERIOR TRIM SHALL BE AS SELECTED BY THE OWNER.
- HARDWOOD FLOORS SHALL BE AS SELECTED BY OWNER.
- CERAMIC WALL TILE SHALL BE INSTALLED ON 1/2" CEMENT BACKER BOARD WITH THIN-SET ADHESIVE. CERAMIC FLOOR TILE SHALL BE INSTALLED ON 3/4" CDX SUB-FLOOR, 3/8" CDX UNDERLAYMENT, 1.5 LB. FELT, WIRE LATH, & THIN - SET.
- ALL FINISH WORK SHALL BE APPLIED FREE OF SAGS, RUNS, STREAKS, BRUSH OR ROLLERMARKS, ETC..

GUTTERS

- ALL OVERHANGS SHALL HAVE GUTTERS.
- ALL LEADERS SHALL BE 2"x3" MINIMUM. COLOR, STYLE AND MATERIAL SHALL BE SELECTED BY BUILDER.
- ALL GUTTERS SHALL BE 5'0" MINIMUM. ALL GUTTERS SHALL HAVE 1/16" SLOPE. COLOR, STYLE AND MATERIAL SHALL BE SELECTED BY BUILDER.
- ALL LEADERS THAT TERMINATE NEAR AND ABOVE GRADE SHALL HAVE SPLASH BLOCKS.
- ALL LEADERS THAT GO BELOW GRADE SHALL HAVE A "T" CLEANOUT WITH THREADED PLUG BEFORE PENETRATING GRADE.

WINDOWS

- COORDINATE WINDOWS WITH OWNER.

DOORS

- COORDINATE EXTERIOR DOORS WITH OWNER.
- COORDINATE INTERIOR DOORS WITH OWNER.

ROOFING

- PROVIDE 3'-0" WIDE MINIMUM ICE AND WEATHER SHIELD AT ALL VALLEYS.
- PROVIDE ICE AND WEATHER SHIELD AT ALL OVERHANGS. ICE AND WEATHER SHIELD SHALL EXTEND FOR A MINIMUM OF 2'-0" OVER HEATED SPACE.

EXTERIOR SIDING

- PROVIDE ALUMINUM FLASHING AT ALL LOCATIONS WHERE A ROOF MEETS A WALL.
- ALL WINDOWS AND DOORS ON WALLS WITH SIDING SHALL RECEIVE TRIM BOARDS TO MATCH EXISTING.
- ALL SIDING CORNERS SHALL RECEIVE TRIM BOARDS TO MATCH EXISTING.

WEATHER PROTECTION

R903.2 FLASHING

FLASHING SHALL BE INSTALLED IN SUCH A MANNER SO AS TO PREVENT MOISTURE ENTERING THE WALL AND ROOF THROUGH JOINTS IN COPINGS, THROUGH MOISTURE-PERMEABLE MATERIALS AND AT INTERSECTIONS WITH PARAPET WALLS AND OTHER PENETRATIONS THROUGH THE ROOF PLANE.

R903.2.1 LOCATIONS

FLASHING SHALL BE INSTALLED AT WALL AND ROOF INTERSECTIONS, AT GUTTERS, WHEREVER THERE IS A CHANGE IN ROOF SLOPE OR DIRECTION AND AROUND ROOF OPENINGS, WHERE FLASHING IS OF METAL, THE METAL SHALL BE CORROSION RESISTANT WITH A THICKNESS OF NOT LESS THAN 0.019 INCH (0.483 MM) (NO. 26 GALVANIZED SHEET).

WALL COVERING

R703.8 FLASHING

APPROVED CORROSION-RESISTANT FLASHING SHALL BE APPLIED IN SHINGLE-FASHION IN A MANNER TO PREVENT ENTRY OF WATER INTO THE WALL CAVITY OR PENETRATION OF WATER TO THE BUILDING STRUCTURAL FRAMING COMPONENTS. SELF-ADHERED MEMBRANES USED AS FLASHING SHALL COMPLY WITH AAMA 711. THE FLASHING SHALL EXTEND TO THE SURFACE OF THE EXTERIOR WALL FINISH. APPROVED CORROSION-RESISTANT FLASHINGS SHALL BE INSTALLED AS ALL OF THE FOLLOWING LOCATIONS:

- EXTERIOR WINDOW AND DOOR OPENINGS, FLASHING AT EXTERIOR WINDOW AND DOOR OPENINGS SHALL EXTEND TO THE SURFACE OF THE EXTERIOR WALL FINISH OR TO THE WATER-RESISTIVE BARRIER FOR SUBSEQUENT DRAINAGE.
- AT THE INTERSECTION OF CHIMNEYS OR OTHER MASONRY CONSTRUCTION WITH FRAME OR STUCCO WALLS, WITH PROJECTING LIPS ON BOTH SIDES UNDER STUCCO COPINGS.
- UNDER AND AT THE ENDS OF MASONRY, WOOD OR METAL COPINGS AND SILLS.
- CONTINUOUSLY ABOVE ALL PROJECTING WOOD TRIM.
- WHERE EXTERIOR PORCHES, DECKS OR STAIRS ATTACH TO A WALL OR FLOOR ASSEMBLY OF WOOD-FRAME CONSTRUCTION.
- AT WALL AND ROOF INTERSECTIONS.
- AT BUILT-IN GUTTERS.

EXTERIOR WINDOWS & DOORS

R612.2 WINDOW SILLS

IN DWELLING UNITS, WHERE THE OPENING OF AN OPERABLE WINDOW IS LOCATED MORE THAN 72 INCHES (1829 MM) ABOVE THE FINISHED GRADE OR SURFACE BELOW, THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHALL BE A MINIMUM OF 24 INCHES (610 MM) ABOVE THE FINISHED FLOOR OF THE ROOM IN WHICH THE WINDOW IS LOCATED. OPERABLE SECTIONS OF WINDOWS SHALL NOT PERMIT OPENINGS THAT ALLOW PASSAGE OF A 4-INCH (102 MM) DIAMETER SPHERE WHERE SUCH OPENINGS ARE LOCATED WITHIN 24 INCHES (610 MM) OF THE FINISHED FLOOR.

EXCEPTIONS:

- WINDOWS WHOSE OPENINGS WILL NOT ALLOW A 4-INCH DIAMETER (102 MM) SPHERE TO PASS THROUGH THE OPENING WHEN THE OPENING IS IN ITS LARGEST OPENED POSITION.
- OPENINGS THAT ARE PROVIDED WITH WINDOW FALL PREVENTION DEVICES THAT COMPLY WITH SECTION R802.3.
- OPENINGS THAT ARE PROVIDED WITH WINDOW FALL PREVENTION DEVICES THAT COMPLY WITH ASTM F 2090.
- WINDOWS THAT ARE PROVIDED WITH OPENING LIMITING DEVICES THAT COMPLY WITH SECTION R612.4.

R612.3 WINDOW FALL PREVENTION DEVICES

WINDOW FALL PREVENTION DEVICES AND WINDOW GUARDS, WHERE PROVIDED, SHALL COMPLY WITH THE REQUIREMENTS OF ASTM F 2090.

R612.4 WINDOW OPENING LIMITING DEVICES

WHEN REQUIRED ELSEWHERE IN THIS CODE, WINDOW OPENING DEVICES SHALL COMPLY WITH THE PROVISIONS OF THIS SECTION.

R612.4.1 GENERAL REQUIREMENTS

WINDOW OPENING LIMITING DEVICES SHALL BE SELF-ACTING AND SHALL BE POSITIONED TO PROHIBIT THE FREE PASSAGE OF A 4-IN. (102 MM) DIAMETER RIGID SPHERE THROUGH THE WINDOW OPENING WHEN THE WINDOW OPENING LIMITING DEVICES IS INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

R612.4.2 OPERATION FOR EMERGENCY ESCAPE

WINDOW OPENING LIMITING DEVICES SHALL BE DESIGNED WITH RELEASE MECHANISMS TO ALLOW FOR EMERGENCY ESCAPE THROUGH THE WINDOW OPENING WITHOUT THE NEED FOR KEYS, TOLLS, OR SPECIAL KNOWLEDGE. WINDOW OPENING LIMITING DEVICES SHALL COMPLY WITH ALL THE FOLLOWING:

- RELEASE OF THE WINDOW OPENING-LIMITING DEVICE SHALL REQUIRE NO MORE THAN 15 POUNDS (6.8 N) OF FORCE.
- THE WINDOW OPENING LIMITING DEVICE RELEASE MECHANISM SHALL OPERATE PROPERLY IN ALL TYPES OF WEATHER.
- WINDOW OPENING LIMITING DEVICES SHALL HAVE THEIR RELEASE MECHANISMS CLEARLY IDENTIFIED FOR PROPER USE IN AN EMERGENCY.
- THE WINDOW OPENING LIMITING DEVICE SHALL NOT REDUCE THE MINIMUM NET CLEAR OPENING AREA OF THE WINDOW UNIT BELOW WHAT IS REQUIRED BY SECTION R310.1.1 OF THE CODE.

TOILET, BATH AND SHOWER SPACES

R307.2 BATHUB AND SHOWER SPACES

BATHUB AND SHOWER FLOORS AND WALLS ABOVE BATHTUBS WITH INSTALLED SHOWER HEADS AND IN THE SHOWER COMPARTMENTS SHALL BE FINISHED WITH A NONABSORBENT SURFACE. SUCH WALL SURFACES SHALL EXTEND TO A HEIGHT OF NOT LESS THAN 6 FEET (1829 MM) ABOVE THE FLOOR.

GLAZING

R308.4.5 GLAZING AND WET SURFACES

GLAZING IN WALLS, ENCLOSURES OR FENCES CONTAINING OR FACING HOT TUBS, SPAS, WHIRLPOOLS, SAUNAS, STEAM ROOMS, BATHUBS, SHOWERS AND INDOOR OR OUTDOOR SWIMMING POOLS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES (1524 MM) MEASURED VERTICALLY ABOVE ANY STANDING OR WALKING SURFACE SHALL BE CONSIDERED TO BE A HAZARDOUS LOCATION. THIS SHALL APPLY TO SINGLE GLAZING AND EACH PANE IN MULTIPLE GLAZING.

EXCEPTION: GLAZING THAT IS MORE THAN 60 INCHES (1524 MM), MEASURED HORIZONTALLY AND IN A STRAIGHT LINE, FROM THE WATER'S EDGE OF A BATHTUB, HOT TUB, SPA, WHIRLPOOL, OR SWIMMING POOL OR FROM THE EDGE OF A SHOWER, SAUNA OR STEAM ROOM.

SMOKE ALARMS

5:23-6.32 ADDITIONS

(F) WHENEVER AN ADDITION IS MADE TO A DETACHED, SINGLE-FAMILY DWELLING OF GROUP R-3 OR R-5, SMOKE ALARMS SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING:

- IF THE CUMULATIVE AREA OF ALL FLOORS OF THE ADDITION(S) IS 25 PERCENT OR MORE OF THE FLOOR AREA OF THE LARGEST FLOOR OF THE EXISTING BUILDING, SMOKE ALARMS COMPLYING WITH THE BUILDING SUBCODE OR ONE- AND TWO-FAMILY DWELLING SUBCODE, AS APPLICABLE, SHALL BE INSTALLED THROUGHOUT THE ADDITION AND THE EXISTING BUILDING.
- IF THE CUMULATIVE AREA OF ALL FLOORS OF THE ADDITION(S) IS FIVE PERCENT OR MORE, BUT LESS THAN 25 PERCENT, OF THE FLOOR AREA OF THE LARGEST FLOOR OF THE EXISTING BUILDING, HARDWIRED, INTERCONNECTED SMOKE ALARMS WITH BATTERY BACK-UP MEETING THE REQUIREMENTS OF NFPA 72, EXCEPT AS OTHERWISE PROVIDED IN THE BUILDING OF FIRE PROTECTION SUBCODE OR ONE- AND TWO-FAMILY DWELLING SUBCODE, AS APPLICABLE SHALL BE INSTALLED AND MAINTAINED IN EACH STORY IN THE DWELLING UNIT, INCLUDING BASEMENTS, (FIRE)

R314.1 SMOKE DETECTION AND NOTIFICATION

ALL SMOKE ALARMS SHALL BE LISTED IN ACCORDANCE WITH UL 217 AND INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF THIS CODE AND THE HOUSEHOLD FIRE WARNING EQUIPMENT PROVISIONS OF NFPA 72.

R314.2 SMOKE DETECTION SYSTEMS

HOUSEHOLD FIRE ALARM SYSTEMS INSTALLED IN ACCORDANCE WITH NFPA 72 THAT INCLUDE SMOKE ALARMS, OR A COMBINATION OF SMOKE DETECTOR AND AUDIBLE NOTIFICATION DEVICE INSTALLED AS REQUIRED BY THIS SECTION FOR SMOKE ALARMS, SHALL BE PERMITTED. THE HOUSEHOLD FIRE ALARM SYSTEM SHALL PROVIDE THE SAME LEVEL OF SMOKE DETECTION AND ALARM AS REQUIRED BY THIS SECTION FOR SMOKE ALARMS, WHERE A HOUSEHOLD FIRE WARNING SYSTEM IS INSTALLED USING A COMBINATION OF SMOKE DETECTOR AND AUDIBLE NOTIFICATION DEVICES). IT SHALL BECOME A PERMANENT FEATURE OF THE OCCUPANCY AND OWNED BY THE HOMEOWNER, THE SYSTEM SHALL BE MONITORED BY AN APPROVED SUPERVISING STATION AND BE MAINTAINED IN ACCORDANCE WITH NFPA 72.

EXCEPTION: WHERE SMOKE ALARMS ARE PROVIDED MEETING THE REQUIREMENTS OF SECTION R314.4.

R314.3 LOCATION

- IN EACH SLEEPING ROOM.
- OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS.
- ON EACH ADDITIONAL STORY OF THE DWELLING, INCLUDING BASEMENTS AND HABITABLE ATTICS BUT NOT INCLUDING CRAWL SPACES AND UNINHABITABLE ATTICS. IN DWELLINGS OR DWELLING UNITS WITH SPLIT LEVELS AND WITHOUT AN INTERVENING DOOR BETWEEN THE ADJACENT LEVELS, A SMOKE ALARM INSTALLED ON THE UPPER LEVEL SHALL SUFFICE FOR THE ADJACENT LOWER LEVEL PROVIDED THAT THE LOWER LEVEL IS LESS THAN ON FULL STORY BELOW THE UPPER LEVEL.

WHEN MORE THAN ONE SMOKE ALARM IS REQUIRED TO BE INSTALLED WITHIN AN INDIVIDUAL DWELLING UNIT THE ALARM DEVICES SHALL BE INTERCONNECTED IN SUCH MANNER THAT THE ACTUATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE INDIVIDUAL UNIT.

R314.4 POWER SOURCE

SMOKE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING WHEN SUCH WIRING IS SERVED FROM A COMMERCIAL SOURCE, AND WHEN PRIMARY POWER IS INTERRUPTED, SHALL RECEIVE POWER FROM A BATTERY. WIRING SHALL BE PERMANENT AND WITHOUT A DISCONNECTING SWITCH OTHER THAN THOSE REQUIRED FOR OVERCURRENT PROTECTION. SMOKE ALARMS SHALL BE INTERCONNECTED.

FIRE-RESISTANT CONSTRUCTION

R302.5 DWELLING/GARAGE PENETRATION PROTECTION

OPENINGS AND PENETRATIONS THROUGH THE WALLS OR CEILINGS SEPARATING THE DWELLING FROM THE GARAGE SHALL BE IN ACCORDANCE WITH SECTIONS R302.5.1 THROUGH R302.5.3.

R302.5.1 OPENING PROTECTION

OPENINGS FROM A PRIVATE GARAGE DIRECTLY INTO A ROOM USED FOR SLEEPING PURPOSES SHALL NOT BE PERMITTED. OTHER OPENINGS BETWEEN THE GARAGE AND RESIDENCE SHALL BE EQUIPPED WITH SOLID WOOD DOORS NOT LESS THAN 1 3/8 INCHES (35MM) IN THICKNESS, SOLID OR HONEYCOMB CORE STEEL DOORS NOT LESS THAN 1 3/8" (35MM) THICK, OR 20-MINUTE FIRE-RATED DOORS.

R302.5.2 DUCT PENETRATION

DUCTS IN THE GARAGE AND DUCTS PENETRATING THE WALLS OR CEILINGS SEPARATING THE DWELLING FROM THE GARAGE SHALL BE CONSTRUCTED OF A MINIMUM NO.26 GAGE (0.48MM) SHEET STEEL OR OTHER APPROVED MATERIAL AND SHALL HAVE NO OPENINGS INTO THE GARAGE.

R302.5.3 OTHER PENETRATIONS

PENETRATIONS THROUGH THE SEPARATION REQUIRED IN SECTION R309.2 (CARPORTS) SHALL BE PROTECTED AS REQUIRED BY SECTION R302.1.1, ITEM 4.

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CONSULTANT

PROJECT NAME AND ADDRESS

RESTAURANT AND
BED & BREAKFAST RENOVATION
1 CLUBHOUSE RD,
BROWNS MILLS, NJ

Revision/Issue

ISSUED FOR PERMIT:

02-23-2025

02-06-2025

DATE: 02-23-2025

DRAWN BY: GCV

JOB NUMBER: 100-23

TITLE:

NOTES

SHEET NUMBER

CS1

R302.6 DWELLING/GARAGE FIRE SEPARATION

THE GARAGE SHALL BE SEPARATED AS REQUIRED BY TABLE R302.6. OPENING IN GARAGE WALLS SHALL COMPLY WITH SECTION R302.5. THIS PROVISION DOES NOT APPLY TO GARAGE WALLS THAT ARE PERPENDICULAR TO THE ADJACENT DWELLING UNIT WALL.

SEPARATION	MATERIAL
FROM THE RESIDENCE AND ATTICS	NOT LESS THAN 1/2" GYPSUM BOARD OR EQUIVALENT APPLIED TO THE GARAGE SIDE
FROM ALL HABITABLE ROOMS ABOVE THE GARAGE	CONSTRUCTED WITH NOT LESS THAN A 1-HOUR FIRE RESISTANCE RATING [SEE N.J.U.C.C. FTO-13]
STRUCTURE(S) SUPPORTING FLOOR/CEILING ASSEMBLIES USED FOR SEPARATION REQUIRED BY THIS SECTION	CONSTRUCTED WITH NOT LESS THAN A 1-HOUR FIRE RESISTANCE RATING [SEE N.J.U.C.C. FTO-13]
GARAGES LOCATED LESS THAN 3 FEET FROM A DWELLING UNIT ON THE SAME LOT	NOT LESS THAN 1/2" GYPSUM BOARD OR EQUIVALENT APPLIED TO THE INTERIOR SIDE OF EXTERIOR WALLS THAT ARE WITHIN THIS AREA

R302.7 UNDER STAIR PROTECTION

ENCLOSED ACCESSIBLE SPACE UNDER STAIRS SHALL HAVE WALLS, UNDER-STAIR SURFACE AND ANY SOFFITS PROTECTED ON THE ENCLOSED SIDE WITH 1/2" (12.7MM) GYPSUM BOARD.

R302.11 FIREBLOCKING

IN COMBUSTIBLE CONSTRUCTION, FIREBLOCKING SHALL BE PROVIDED TO CUT OFF ALL CONCEALED DRAFT OPENINGS (BOTH VERTICAL AND HORIZONTAL) AND TO FORM AN EFFECTIVE FIRE BARRIER BETWEEN STORIES, AND BETWEEN A TOP STORY AND THE ROOF SPACE.

FIREBLOCKING SHALL BE PROVIDED IN WOOD-FRAME CONSTRUCTION IN THE FOLLOWING LOCATIONS:

ITEM 4: AT OPENINGS AROUND VENTS, PIPES, DUCTS, CABLES AND WIRES AT CEILING AND FLOOR LEVEL, WITH AN APPROVED MATERIAL TO RESIST THE FREE PASSAGE OF FLAME AND PRODUCTS OF COMBUSTION. THE MATERIAL FILLING THIS ANNULAR SPACE SHALL NOT BE REQUIRED TO MEET THE ASTM E 136 REQUIREMENTS.

R302.13 FIRE PROTECTION FLOORS

FLOOR ASSEMBLIES THAT ARE NOT REQUIRED ELSEWHERE IN THIS CODE TO BE FIRE-RESISTANCE RATED, SHALL BE PROVIDED WITH A 1/2-INCH (12.7 MM) GYPSUM WALL-BOARD MEMBRANE, 5/8-INCH (16 MM) WOOD STRUCTURAL PANEL MEMBRANE, OR EQUIVALENT ON THE UNDERSIDE OF THE FLOOR FRAMING MEMBER. PENETRATIONS OR OPENINGS FOR DUCTS, VENTS, ELECTRICAL OUTLETS, LIGHTING, DEVICES, LUMINAIRES, WIRES, SPEAKERS, DRAINAGE, PIPING AND SIMILAR OPENINGS OR PENETRATIONS SHALL BE PERMITTED.

EXCEPTIONS:

- FLOOR ASSEMBLIES LOCATED DIRECTLY OVER A SPACE PROTECTED BY AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION P2904, NFPA 13D, OR OTHER APPROVED EQUIVALENT SPRINKLER SYSTEM.
- FLOOR ASSEMBLIES LOCATED DIRECTLY OVER CRAWL SPACE NOT INTENDED FOR STORAGE OR FUEL-FIRED APPLIANCES.
- PORTIONS OF FLOOR ASSEMBLIES SHALL BE UNPROTECTED WHERE COMPLYING WITH THE FOLLOWING:
 - THE AGGREGATE AREA OF THE UNPROTECTED PORTIONS DOES NOT EXCEED 80 SQUARE FEET (7.4 METERS SQUARED) PER STORY
 - FIRE BLOCKING IN ACCORDANCE WITH SECTION R302.11.1 IS INSTALLED ALONG THE PERIMETER OF THE UNPROTECTED PORTION TO SEPARATE THE UNPROTECTED PORTION FROM THE REMAINDER OF THE FLOOR ASSEMBLY.
- WOOD FLOOR ASSEMBLIES USING DIMENSION LUMBER OR STRUCTURAL COMPOSITE LUMBER EQUAL TO OR GREATER THAN 2-INCH BY 10-INCH (50.8 MM BY 254 MM) NOMINAL DIMENSION, OR OTHER APPROVED FLOOR ASSEMBLIES DEMONSTRATING EQUIVALENT FIRE PERFORMANCE.

ENERGY CODES

R402.4 AIR LEAKAGE (MANDATORY)

THE BUILDING THERMAL ENVELOPE SHALL BE CONSTRUCTED TO LIMIT AIR LEAKAGE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS R402.4.1 THROUGH R402.4.4.

R402.4.1 BUILDING THERMAL ENVELOPE

THE BUILDING THERMAL ENVELOPE SHALL COMPLY WITH SECTIONS R402.4.1.1 OR R402.4.1.2. THE SEALING METHODS BETWEEN DISSIMILAR MATERIALS SHALL ALLOW FOR DIFFERENTIAL EXPANSION AND CONTRACTION.

R402.4.1.1 INSTALLATION

THE COMPONENTS OF THE BUILDING THERMAL ENVELOPE AS LISTED IN TABLE R402.4.1.1 SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND THE CRITERIA LISTED IN TABLE R402.4.1.1, AS APPLICABLE TO THE METHOD OF CONSTRUCTION, WHERE REQUIRED BY THE CODE OFFICIAL. AN APPROVED THIRD PARTY SHALL INSPECT ALL COMPONENTS AND VERIFY COMPLIANCE.

R403.3 DUCTS

DUCTS AND AIR HANDLERS SHALL BE IN ACCORDANCE WITH SECTIONS R403.3.1 THROUGH R403.3.5.

R403.3.1 INSULATION (PRESCRIPTIVE)

SUPPLY AND RETURN DUCTS IN ATTICS SHALL BE INSULATED TO A MINIMUM OF R-8

WHERE 3 INCHES (76 MM) IN DIAMETER OR GREATER AND R-6 WHERE LESS THAN 3 INCHES (76 MM) IN DIAMETER. SUPPLY AND RETURN DUCTS IN OTHER PORTIONS OF THE BUILDING SHALL BE INSULATED TO A MINIMUM OF R-6 WHERE 3 INCHES (76 MM) IN DIAMETER OR GREATER AND R-4.2 WHERE LESS THAN 3 INCHES (76 MM) IN DIAMETER.
EXCEPTION: DUCTS OF PORTIONS THEREOF LOCATED COMPLETELY INSIDE THE BUILDING THERMAL ENVELOPE.

R403.3.2 SEALING (MANDATORY)

DUCTS, AIR HANDLERS, AND FILTER BOXES SHALL BE SEALED. JOINTS AND SEAMS SHALL COMPLY WITH EITHER THE INTERNATIONAL MECHANICAL CODE OR INTERNATIONAL RESIDENTIAL CODE, AS APPLICABLE.

HANGERS

- ALL HANGERS, STRAPS, TIES, AND SIMILAR METAL FASTENERS ARE SPECIFIED AS SIMPSON-STRONG TIE COMPANY.
- ALL HANGERS AND FASTENERS TO BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS.
- ALL HANGERS TO RECEIVE MAXIMUM FASTENING AS INDICATED BY SIMPSON.
- ALL EXTERIOR PRODUCTS TO RECEIVE Z-MAX GALVANIZED FINISHING MATERIAL OR BETTER.

FASTENING

- PRE-DRILLING IS TYPICALLY NOT REQUIRED.
- SCREW HEADS THAT ARE COUNTERSUNK FLUSH TO WOOD SURFACE ARE ACCEPTABLE IF THE SCREW HAS NOT SPUN OUT.
- INDIVIDUAL SCREW LOCATIONS MAY BE ADJUSTED UP TO 3" TO AVOID CONFLICTS WITH OTHER HARDWARE OR TO AVOID LUMBER DEFECTS.

INTERIOR COVERING

R702.3.7 WATER-RESISTANT GYPSUM BACKING BOARD
GYPSUM BOARD USED AS THE BASE OR BACKER FOR ADHESIVE APPLICATION OF CERAMIC TILE OR OTHER REQUIRED NONABSORBENT FINISH MATERIAL SHALL CONFORM TO ASTM C1178, C1278, OR C1396. USE OF WATER-RESISTANT GYPSUM BACKING BOARD SHALL BE PERMITTED ON CEILINGS. WATER-RESISTANT GYPSUM BOARD SHALL NOT BE INSTALLED OVER A CLASS 1 OR 11 VAPOR RETARDER IN A SHOWER OR TUB COMPARTMENT, CUT OR EXPOSED EDGES, INCLUDING THOSE AT WALL INTERSECTIONS, SHALL BE SEALED AS RECOMMENDED BY THE MANUFACTURER.

R702.3.7.1 LIMITATIONS

WATER-RESISTANT GYPSUM BACKING BOARD SHALL NOT BE USED WHERE THERE WILL BE DIRECT EXPOSURE TO WATER, OR IN AREAS SUBJECT TO CONTINUOUS HIGH HUMIDITY.

N1102.1.3 INSULATION AND FENESTRATION REQUIREMENTS

TABLE N1102.1.3 [R402.1.3]
INSULATION MINIMUM R-VALUES AND FENESTRATION REQUIREMENTS BY COMPONENTS

ZONE	FENESTRATION U-FACTOR MAXIMUM	SKYLIGHT U-FACTOR MAXIMUM	SOLAR HEAT GAIN MAXIMUM
5 AND MARINE 4	.30	.55	.40
CEILING R-VALUE MINIMUM	WALL R-VALUE MINIMUM		FLOOR R-VALUE MINIMUM
60	30 OR 20 & 5 CI OR 13 & 10 CI OR 0 & 20 CI		30
BASEMENT WALL R-VALUE MINIMUM	SLAB R-VALUE MINIMUM	SLAB DEPTH MINIMUM	CRAWL SPACE WALL R-VALUE MINIMUM
15 CI OR 19 OR 13 & 5 CI	10 CI	4'-0"	15 CI OR 19 OR 13 & 5 CI

CI = CONTINUOUS INSULATION

- R-VALUES ARE MINIMUMS, U-FACTORS AND SHGC ARE MAXIMUMS, WHERE INSULATION IS INSTALLED IN A CAVITY THAT IS LESS THAN THE LABEL OR DESIGN THICKNESS OF THE INSULATION, THE INSTALLED R-VALUE OF THE INSULATION SHALL BE NOT LESS THAN THE R-VALUE SPECIFIED IN THE TABLE.
- THE FENESTRATION U-FACTOR COLUMN EXCLUDES SKYLIGHTS, THE SHGC COLUMN APPLIES TO ALL GLAZED FENESTRATION. EXCEPTION: IN CLIMATE ZONES 0 THROUGH 3, SKYLIGHTS SHALL BE PERMITTED TO BE EXCLUDED FROM GLAZED FENESTRATION SHGC REQUIREMENTS PROVIDED THAT THE SHGC FOR SUCH SKYLIGHTS DOES NOT EXCEED 0.30.
- "5CI OR 13" MEANS R-5 CONTINUOUS INSULATION (CI) ON THE INTERIOR OR EXTERIOR SURFACE OF THE WALL OR R-13 CAVITY INSULATION ON THE INTERIOR SIDE OF THE WALL. "10CI OR 13" MEANS R-10 CONTINUOUS INSULATION (CI) ON THE INTERIOR OR EXTERIOR SURFACE OF THE WALL OR R-13 CAVITY INSULATION ON THE INTERIOR SIDE OF THE WALL. "15CI OR 19 OR 13 + 5CI" MEANS R-15 CONTINUOUS INSULATION (CI) ON THE INTERIOR OR EXTERIOR SURFACE OF THE WALL; OR R-19 CAVITY INSULATION ON THE INTERIOR SIDE OF THE WALL; OR R-13 CAVITY INSULATION ON THE INTERIOR OF THE WALL IN ADDITION TO R-5 CONTINUOUS INSULATION ON THE INTERIOR OR EXTERIOR SURFACE OF THE WALL.
- R-5 INSULATION SHALL BE PROVIDED UNDER THE FULL SLAB AREA OF A HEATED SLAB IN ADDITION TO THE REQUIRED SLAB EDGE INSULATION R-VALUE FOR SLABS, AS INDICATED IN THE TABLE. THE SLAB-EDGE INSULATION FOR HEATED SLABS SHALL NOT BE REQUIRED TO EXTEND BELOW THE SLAB.
- THERE ARE NO SHGC REQUIREMENTS IN THE MARINE ZONE.
- BASEMENT WALL INSULATION SHALL NOT BE REQUIRED IN WARM HUMID LOCATIONS AS DEFINED BY FIGURE N1101.7 AND TABLE N1101.7.
- THE FIRST VALUE IS CAVITY INSULATION; THE SECOND VALUE IS CONTINUOUS INSULATION. THEREFORE, AS AN EXAMPLE, "13 + 5" MEANS R-13 CAVITY INSULATION PLUS R-5 CONTINUOUS INSULATION.
- MASS WALLS SHALL BE IN ACCORDANCE WITH SECTION N1102.2.5. THE SECOND R-VALUE APPLIES WHERE MORE THAN HALF OF THE INSULATION IS ON THE INTERIOR OF THE MASS WALL.
- A MAXIMUM U-FACTOR OF 0.32 SHALL APPLY IN CLIMATE ZONES 3 THROUGH 8 TO VERTICAL FENESTRATION PRODUCTS INSTALLED IN BUILDINGS LOCATED EITHER:
 - ABOVE 4,000 FEET IN ELEVATION, OR
 - IN WINDBORNE DEBRIS REGIONS WHERE PROTECTION OF OPENINGS IS REQUIRED BY SECTION R301.2.1.2.

TABLE R402.4.1.1
AIR BARRIER AND INSULATION INSTALLATION

COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA
GENERAL REQUIREMENTS	A CONTINUOUS AIR BARRIER SHALL BE INSTALLED IN THE BUILDING ENVELOPE. THE EXTERIOR THERMAL ENVELOPE CONTAINS A CONTINUOUS AIR BARRIER. BREAKS AND JOINTS IN THE AIR BARRIER SHALL BE SEALED.	AIR PERMEABLE INSULATION SHALL NOT BE USED AS A SEALING MATERIAL.
CEILING / ATTIC	THE AIR BARRIER IN ANY DROPPED CEILING / SOFFIT SHALL BE ALIGNED WITH THE INSULATION AND ANY GAPS IN THE AIR BARRIER SHALL BE SEALED. ACCESS OPENINGS, DROP DOWNSTAIRS, OR KNEE WALL DOORS TO UNCONDITIONED ATTIC SPACES SHALL BE SEALED.	THE INSULATION IN ANY DROPPED CEILING / SOFFIT SHALL BE ALIGNED WITH THE AIR BARRIER
WALLS	THE JUNCTION OF THE FOUNDATION AND SILL PLATE SHALL BE SEALED. THE JUNCTION OF THE TOP PLATE AND THE TOP OF EXTERIOR WALLS SHALL BE SEALED. KNEE WALLS SHALL BE SEALED.	CAVITIES WITHIN CONCERNS AND HEADERS OF FRAME WALLS SHALL BE INSULATED BY COMPLETELY FILLING THE CAVITY WITH A MATERIAL HAVING A THERMAL RESISTANCE OF R-3 PER INCH MINIMUM. EXTERIOR THERMAL ENVELOPE INSULATION FOR FRAMED WALLS SHALL BE INSTALLED IN SUBSTANTIAL CONTACT AND CONTINUOUS ALIGNMENT WITH THE AIR BARRIER.
WINDOWS, SKYLIGHTS, AND DOORS	THE SPACE BETWEEN WINDOW / DOOR JAMBS AND FRAMING, AND SKYLIGHTS AND FRAMING SHALL BE SEALED.	
RIM JOISTS	RIM JOISTS SHALL INCLUDE THE AIR BARRIER.	RIM JOISTS SHALL BE INSULATED.
FLOORS (INCLUDING ABOVE GARAGE AND CANTILEVERED FLOORS)	THE AIR BARRIER SHALL BE INSULATED AT ANY EXPOSED EDGE OF INSULATION.	FLOOR FRAMING CAVITY INSULATION SHALL BE INSTALLED TO MAINTAIN PERMANENT CONTACT WITH THE UNDERSIDE OF SUBFLOOR DECKING, OR FLOOR FRAMING CAVITY INSULATION SHALL BE PERMITTED TO BE IN CONTACT WITH THE TOP SIDE OF SHEATHING, OR CONTINUOUS INSULATION INSTALLED ON THE UNDERSIDE OF FLOOR FRAMING AND EXTENDS FROM THE BOTTOM OF THE TOP OF ALL PERIMETER FLOOR FRAMING MEMBERS.
CRAWL SPACE WALLS	EXPOSED EARTH IN UNVENTED CRAWL SPACES SHALL BE COVERED WITH A CLASS I VAPOR RETARDER WITH OVERLAPPING JOINTS TAPED.	WHERE PROVIDED INSTEAD OF FLOOR INSULATION, INSULATION SHALL BE PERMANENTLY ATTACHED TO THE CRAWLSPACE WALLS.
SHAFTS, PENETRATIONS	DUCT SHAFTS, UTILITY PENETRATIONS, AND FLUE SHAFTS OPENING TO EXTERIOR OR UNCONDITIONED SPACED SHALL BE SEALED.	
NARROW CAVITIES		BATTS IN NARROW CAVITIES SHALL BE CUT TO FIT, OR NARROW CAVITIES SHALL BE FILLED BY INSULATION THAT ON INSTALLATION READILY CONFORMS TO THE AVAILABLE CAVITY SPACE.
GARAGE SEPARATION	AIR SEALING SHALL BE PROVIDED BETWEEN THE GARAGE AND CONDITIONED SPACES.	
RECESSED LIGHTING	RECESSED LIGHTING FIXTURES INSTALLED IN THE BUILDING THERMAL ENVELOPE SHALL BE SEALED TO THE DRYWALL.	RECESSED LIGHTING FIXTURES INSTALLED IN THE BUILDING THERMAL ENVELOPE SHALL BE AIR TIGHT AND IC RATED.
PLUMBING AND WIRING		BATT INSULATION SHALL BE CUT NEATLY TO FIT AROUND WIRING AND PLUMBING IN EXTERIOR WALLS, OR INSULATION THAT ON INSTALLATION READILY CONFORMS TO AVAILABLE SPACE SHALL EXTEND BEHIND PIPING AND WIRING.
SHOWER / TUB ON EXTERIOR WALLS	THE AIR BARRIER INSTALLED AT EXTERIOR WALLS ADJACENT TO SHOWERS AND TUBS SHALL SEPARATE THE FROM THE SHOWERS AND TUBS	EXTERIOR WALLS ADJACENT TO SHOWERS AND TUBS SHALL BE INSULATED.
ELECTRICAL / PHONE BOX ON EXTERIOR WALLS	THE AIR BARRIER SHALL BE INSTALLED BEHIND ELECTRICAL OR COMMUNICATION BOXES OR AIR-SEALED BOXES SHALL BE INSTALLED.	
HVAC REGISTER BOOTS	HVAC REGISTER BOOTS THAT PENETRATE BUILDING THERMAL ENVELOPE SHALL BE SEALED TO THE SUBFLOOR OR DRYWALL.	
CONCEALED SPRINKLERS	WHEN REQUIRED TO BE SEALED, CONCEALED FIRE SPRINKLERS SHALL ONLY BE SEALED IN A MANNER THAT IS RECOMMENDED BY THE MANUFACTURER. CAULKING OR OTHER ADHESIVE SEALANTS SHALL NOT BE USED TO FILL VOIDS BETWEEN FIRE SPRINKLER COVER PLATES AND WALLS OR CEILINGS.	

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Revision/Issue

ISSUED FOR PERMIT:
02-23-2025
02-06-2025

DATE: 02-23-2025

DRAWN BY: GCV

JOB NUMBER: 100-23

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NOTES

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GN

WORK CATEGORY: EXISTING TENANT EXPANSION
 EXISTING USE: MIXED USE (B) BUSINESS/ (R-3) APARTMENT

CONSTRUCTION CLASSIFICATION (602.3):
 TYPE VB (COMBUSTIBLE UNPROTECTED)- NON-SPRINKLERED

FIRST FLOOR AREA APPROX. 248 S.F. BUSINESS USE
 TOTAL 2485 F.

**UNIFORM CONSTRUCTION CODE (N.J.A.C. 5:23)
 REHABILITATION SUBCODE N.J.A.C. 5:23-6**

WORK CATEGORY: CHANGE OF USE- 5:23-6.1(G)
 EXISTING USE: (B)

PROPOSED USE GROUP: BUSINESS (B)

5:23-6.1.1 BASIC REQUIREMENTS IN ALL GROUPS
 (b) CAPACITY PER UNIT EGRESS WIDTH

GROUP: B (NO SPRINKLER SYSTEM)
 STAIRWAYS: 40 OCCUPANTS
 DOORS, RAMPS AND CORRIDORS: 100 OCCUPANTS

NOTE: THE OCCUPANT LOAD MAY BE EQUAL TO THE TOTAL NUMBER OF OCCUPANTS FOR WHICH EXIT

CAPACITY IS PROVIDED AS DETERMINED BY TABLE 1 ABOVE. UNIT OF EGRESS WIDTH = 22 INCHES

(c) INTERIOR FINISHES
 (1) EXISTING INTERIOR FINISHES OF WALLS AND CEILINGS SHALL HAVE A FLAME SPREAD RATING NOT GREATER THAN THE CLASS PRESCRIBED BY TABLE 2 BELOW. ALL EXISTING INTERIOR FINISH MATERIALS WHICH DO NOT COMPLY WITH THE REQUIREMENTS SHALL BE REMOVED OR SHALL BE TREATED WITH AN APPROVED FIRE RETARDANT COATING IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS

ALL OTHER GROUPS (B)
 EXIT ENCLOSURES: I
 EXIT ACCESS ENCLOSURES: II
 ROOMS OR SPACES: NO MINIMUM

(a) EXITS
 (2) A SINGLE EXIT IS PERMITTED IN THE STORY AT THE LEVEL OF EXIT DISCHARGE WHEN THE OCCUPANT LOAD OF THE STORY DOES NOT EXCEED 50 AND THE EXIT ACCESS TRAVEL DISTANCE DOES NOT EXCEED 75 FT.

(b) EGRESS DOORWAYS

(c) EGRESS CAPACITY OF MEANS OF EGRESS
 THE CAPACITY OF THE MEANS OF EGRESS IN EACH WORK AREA SHALL BE DETERMINED IN ACCORDANCE WITH N.J.A.C. 5:23-6.11(B).

(d) DEAD END CORRIDORS
 EXIST'G DEAD END CORRIDORS SHALL NOT EXCEED 35 FT. IN LENGTH. DEAD END CORRIDORS MAY BE UP TO 50 FEET IN LENGTH IN A BUILDING WITH AN AUTOMATIC ALARM SYSTEM INSTALLED IN CONFORMANCE WITH THE BUILDING CODE IN EFFECT AT THE TIME OF ITS INSTALLATION.

(e) MEANS OF EGRESS LIGHTING
 ARTIFICIAL LIGHTING WITH AN INTENSITY OF NOT LESS THAN ONE FOOT CANDLE AT FLOOR LEVEL SHALL BE REQUIRED DURING ALL TIMES THAT THE CONDITIONS OF OCCUPANCY OF THE BUILDING REQUIRE THAT THE EXITS BE AVAILABLE. LIGHTING SHALL ALSO BE REQUIRED TO ILLUMINATE THE EXIT DISCHARGE. IN ALL BUILDINGS, ROOMS OR SPACES REQUIRED TO HAVE MORE THAN ONE EXIT OR EXIT ACCESS, MEANS OF EGRESS LIGHTING SHALL BE CONNECTED TO AN EMERGENCY ELECTRICAL SYSTEM CONFORMING TO NFPA 70 (NEC) EXCEPT THAT CONTINUED ILLUMINATION SHALL BE REQUIRED TO BE PROVIDED FOR NOT LESS THAN ONE HOUR IN THE CASE OF PRIMARY POWER LOSS.

(f) ILLUMINATED EXIT SIGNS
 ILLUMINATED EXIT SIGNS SHALL BE PROVIDED FOR ALL REQUIRED MEANS OF EGRESS IN ALL BUILDINGS, ROOMS OR SPACES REQUIRED TO HAVE MORE THAN ONE EXIT OR EXIT ACCESS. EXIT SIGNS SHALL BE VISIBLE FROM THE EXIT ACCESS AND SUPPLEMENTED BY DIRECTIONAL SIGNS WHEN NECESSARY. (EXCEPTION: APPROVED MAIN EXTERIOR DOORS THAT ARE CLEARLY IDENTIFIED AS EXITS ARE NOT REQUIRED TO HAVE EXIT SIGNS.

(i) STRUCTURAL ELEMENTS
 STRUCTURAL ELEMENTS WHICH ARE UNCOVERED DURING THE COURSE OF THE REHABILITATION AND WHICH ARE FOUND TO BE UNSOUND OR OTHERWISE STRUCTURALLY DEFICIENT, SHALL BE REINFORCED, SUPPORTED OR REPLACED IN ACCORDANCE WITH THE APPLICABLE STRUCTURAL DESIGN CRITERIA OF THE BUILDING SUBCODE. WHERE STRUCTURAL ELEMENTS ARE SOUND, THERE IS NO EXCESSIVE DEFLECTION (DEFINED AS DEFLECTION IN EXCESS OF THE STANDARDS SET FORTH IN N.J.A.C. 5:23-6.7(C)1), AND FIXED LOADS ARE NOT CHANGING IN A WAY THAT WILL INCREASE THE STRESSES ON EXISTING STRUCTURES BEYOND THAT WHICH IS PERMITTED BY N.J.A.C. 5:23-6.7(C). EXISTING STRUCTURAL ELEMENTS SHALL BE PERMITTED TO REMAIN.

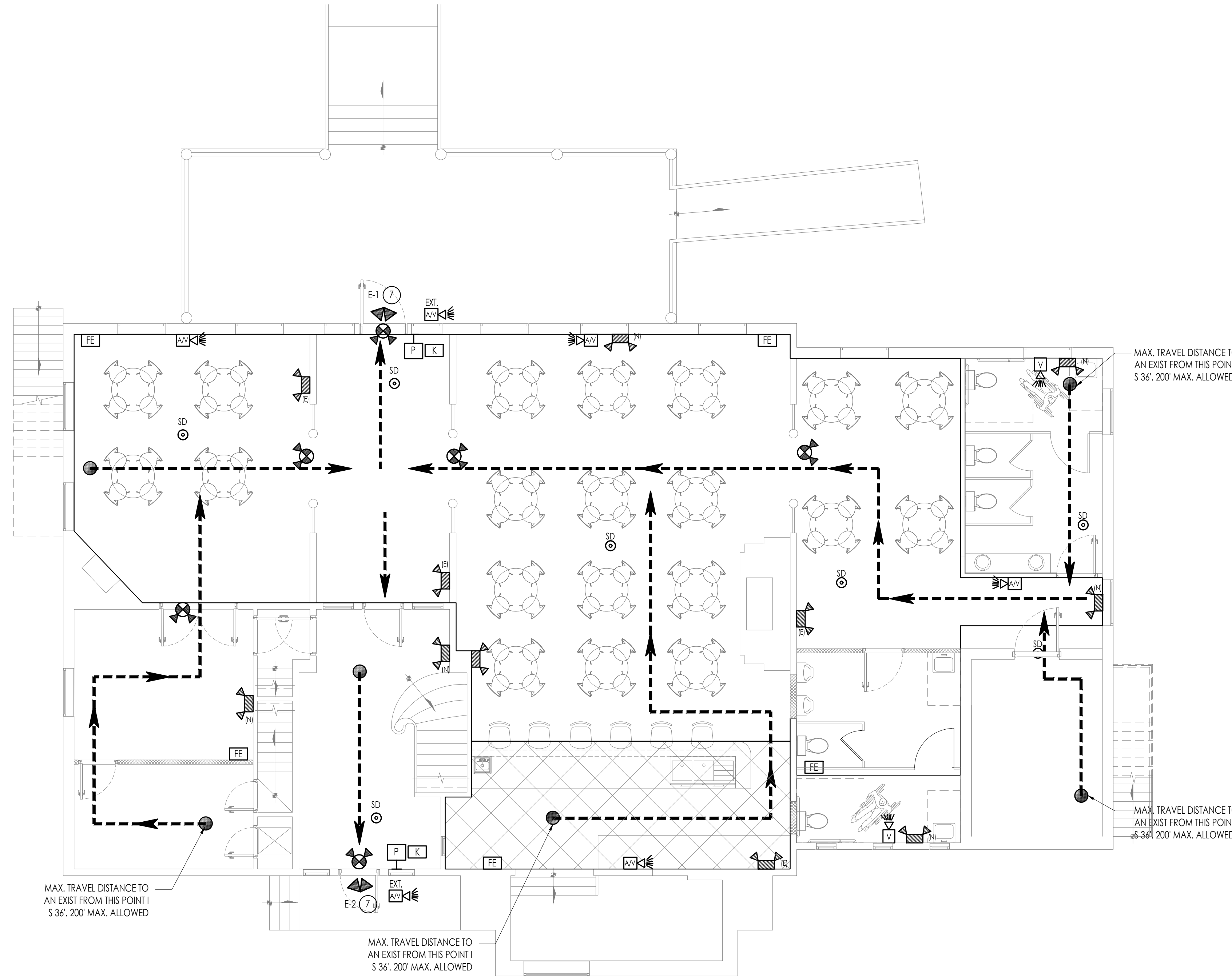
(k) PLUMBING FIXTURES
 CUSTOMER AND EMPLOYEE FACILITIES MAY BE SATISFIED WITH A SINGLE UNISEX TOILET FACILITY WHERE THE OCCUPIED FLOOR AREA DOES NOT EXCEED 1,500 S.F.
 PER NSPC 2017 (7.21.5)
 A KITCHEN OR BAR SINK SHALL BE CONSIDERED AS MEETING THE REQUIREMENTS FOR DRINKING WATER FACILITIES FOR EMPLOYEES
 PER NSPC 2017 (7.21.11)
 (1) SERVICE SINK- EXISTING

(j) MECHANICAL REQUIREMENTS
 (2)(ii) EXISTING SYSTEMS THAT ARE ALTERED OR EXTENDED SHALL NOT REDUCE THE AMOUNT OF OUTSIDE AIR BELOW THE EXISTING RATE PER PERSON OR THE RATE INCLUDED IN THE MECHANICAL SUBCODE, WHICHEVER IS LOWER. AS A MINIMUM, MECHANICALLY-VENTILATED SPACES SHALL BE PROVIDED WITH FIVE CFM PER PERSON OF OUTDOOR AIR AND 15 CFM OF VENTILATION AIR PER PERSON.

5:23-6.14a SUPPLEMENTAL REQUIREMENTS - GROUP B

(a) MANUAL ALARM SYSTEM:
 WHEN THE WORK AREA EXCEEDS 50 PERCENT OF THE GROSS ENCLOSED FLOOR AREA OF THE BUILDING, A FIRE ALARM SYSTEM SHALL BE INSTALLED THROUGHOUT THE BUILDING

(b) VERTICAL OPENING PROTECTION
 A MINIMUM 30-MINUTE FIRE BARRIER SHALL BE REQUIRED FOR INTERIOR STAIRWAYS AND OTHER VERTICAL OPENINGS NOT EXCEEDING (3) STORIES.



LIFE SAFETY LEGEND

	EVACUATION ROUTE		
	OCCUPANT LOAD PER EXIT DOOR. SEE OCCUPANT LOAD TABLE		
EXIT CAPACITY			
EXIT #	OCCUPANT LOAD	MIN. WIDTH REQUIRED (OCC X 0.2) = UNIT WIDTH, INCHES	PROVIDED WIDTH
E-1	7	2	36" (EXISTING)
E-2	7	2	36" (EXISTING)

LEGEND

	INDICATES FIRE RATED WALL ASSEMBLY
	INDICATES EXIST'G TO REMAIN
	INDICATES NEW
	FIRE ALARM PULL STATION
	KEYPAD ANNUNCIATOR
	HEAT DETECTOR
	LOW VOLTAGE SMOKE DETECTOR W/ BATTERY BACK UP
	110 VOLT INTERCONNECTED HARDWIRED SMOKE DETECTOR W/ BATTERY BACK UP
	SMOKE DETECTOR & CARBON MONOXIDE DETECTOR COMBINATION UNIT
	AUDIO/ VISUAL (HORN/STROBE) FIRE ALARM
	VISUAL ONLY (STROBE) FIRE ALARM
	HORN ONLY FIRE ALARM
	FIRE EXTINGUISHER MOUNTED 30" A.F.F.
	EXIT SIGN W/ EMERGENCY LIGHT (BATT. OPERATED)
	EXIT SIGN AND EMERGENCY LIGHT COMBO W/ ONE-HOUR MIN. BATTERY BACK-UP
	DOUBLE HEAD EMERGENCY LIGHT W/ ONE-HOUR MINIMUM BATTERY BACK-UP
	EXTERIOR DOUBLE HEAD EMERGENCY LIGHT W/ ONE-HOUR MIN. BATTERY BACK-UP
	FIRE ALARM CONTROL PANEL

NOTE: ARC FAULT PROTECTION FOR ALL NEW ELECTRICAL CIRCUITS. ALL OUTLETS AREA TAMPER RESISTANT

1 FIRST FLOOR PLAN LIFE SAFETY
 1/2" = 1'-0"

INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY: (TABLE 803.9)

GROUP	NON-SPRINKLERED		
	EXIT ENCL. AND EXIT PASSAGEWAYS	CORRIDORS	ROOMS AND ENCLOSED SPACES
B	A	B	C

PER 2018 IBC NJ EDITION
 OCCUPANCY LOAD FOR BUSINESS USE: (TABLE 1004.1.2)

CALCULATED OCCUPANT LOAD				
GRAPHIC HATCH	AREA	AREA	EGRESS BASIS	OCCUPANT LOAD
	BUSINESS AREAS	248 SF	200 SF(GROSS)/OCC	2
	COMMON AREA	1820 SF	150 SF(GROSS)/OCC	12
	TOTAL			14

MEANS OF EGRESS (SEC. 1005):

MIN. # OF EXITS REQ. (TABLE 1006.2.1): (1) EXIT) MAX. OCCUPANT LOAD IS LESS THAN 50 & TRAVEL DISTANCE IS LESS THAN 75 FEET. (5) EXITS ARE EXISTING

MAX. DEAD END CORRIDOR DIST. (1020.4): 20'

MIN. CORRIDOR WIDTH (1020.2): 36" MIN.
 MAX. TRAVEL DISTANCE TO AN EXIT (TABLE 1016.2.1): 100'

DOOR SWING (1008.1.2): DOORS SHALL SWING IN THE DIRECTION OF TRAVEL WHERE SERVING AN OCCUPANT LOAD OF 50 OR MORE
 MIN. DOOR WIDTH (1010.1.1): 36" (30" EXISTING)
 PANIC HARDWARE (1010.1.10): (REQUIRED) NO (PROVIDED) NO

FIRE PROTECTION SYSTEMS:
 SPRINKLER SYSTEM (903): (REQUIRED) NO (PROVIDED) NO
 PORTABLE FIRE EXTINGUISHER (906): (REQUIRED) YES (PROVIDED) YES
 FIRE ALARM (907.2.1): GROUP B (REQUIRED) YES (PROVIDED) YES, EXISTING: A FIRE ALARM SYSTEM IS REQUIRED WHERE THERE IS A WINDOWLESS BASEMENT

508.4 REQUIRED SEPARATION OF OCCUPANCIES BETWEEN OCCUPANCIES (R-3) AND (B) NON-SPRINKLERED: MIN. 2-HR FIRE SEPARATION.

SOUND TRANSMISSION AIR-BORNE SOUND (1207.2): WALLS, PARTITIONS, AND FLOOR/CEILING ASSEMBLIES SEPARATING DWELLING UNITS FROM PUBLIC AREAS SHALL HAVE A SOUND TRANSMISSION CLASS (STC) OF NOT LESS THAN 50

SOUND TRANSMISSION STRUCTURE-BORNE SOUND (1207.3): FLOOR/CEILING ASSEMBLIES BETWEEN DWELLING UNITS OR BETWEEN A DWELLING UNIT AND A PUBLIC OR SERVICE AREA WITHIN THE STRUCTURE SHALL HAVE AN IMPACT CLASS (IC) RATING OF NOT LESS THAN 50

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PROJECT NAME AND ADDRESS:

RESTAURANT AND
 BED & BREAKFAST RENOVATION
 1 CLUBHOUSE RD,
 BROWNS MILLS, NJ

Revision/Issue	
ISSUED FOR PERMIT:	
DATE:	02-23-2025
DRAWN BY:	GCV
JOB NUMBER:	100-23
TITLE:	NOTES

SHEET NUMBER:

LS-1

GENERAL NOTES

STAIRWAYS

R311.3 FLOORS AND LANDINGS AT EXTERIOR DOORS

THERE SHALL BE A LANDING OR FLOOR ON EACH SIDE OF EACH EXTERIOR DOOR. THE WIDTH OF EACH LANDING SHALL NOT BE LESS THAN THE DOOR SERVED. EVERY LANDING SHALL HAVE A MINIMUM DIMENSION OF 36 INCHES (914 MM) MEASURED IN THE DIRECTION OF TRAVEL. EXTERIOR LANDINGS SHALL BE PERMITTED TO HAVE A SLOPE NOT TO EXCEED 1/4 UNIT VERTICAL IN 12 UNITS HORIZONTAL (2-PERCENT).

EXCEPTION:

EXTERIOR BALCONIES LESS THAN 60 SQUARE FEET (5.6 M SQUARED) AND ONLY ACCESSIBLE FROM A DOOR ARE PERMITTED TO HAVE A LANDING LESS THAN 36 INCHES (914 MM) MEASURED IN THE DIRECTION OF TRAVEL.

R311.3.1 FLOOR ELEVATIONS AT THE REQUIRED EGRESS DOORS

LANDINGS OR FLOORS AT THE REQUIRED EGRESS DOOR SHALL NOT BE MORE THAN 1 1/2 INCHES (38 MM) LOWER THAN THE TOP OF THE THRESHOLD.

EXCEPTION:

THE EXTERIOR LANDING OR FLOOR SHALL NOT BE MORE THAN 8 1/4 INCHES (210 MM) BELOW THE TOP OF THE THRESHOLD PROVIDED THE DOOR DOES NOT SWING OVER THE LANDING OR THE FLOOR.

WHEN EXTERIOR LANDINGS OR FLOORS SERVING THE REQUIRED EGRESS DOOR ARE NOT AT GRADE, THEY SHALL BE PROVIDED WITH ACCESS TO GRADE BY MEANS OF A RAMP IN ACCORDANCE WITH SECTION R311.8 OR A STAIRWAY IN ACCORDANCE WITH SECTION R311.7.

R311.3.2 FLOOR ELEVATIONS FOR OTHER EXTERIOR DOORS

DOORS OTHER THAN THE REQUIRED EGRESS DOOR SHALL BE PROVIDED WITH LANDINGS OR FLOORS NOT MORE THAN 8 1/4 INCHES (210 MM) BELOW THE TOP OF THE THRESHOLD.

EXCEPTION:

A LANDING IS NOT REQUIRED WHERE A STAIRWAY OF TWO OR FEWER RISERS IS LOCATED ON THE EXTERIOR SIDE OF THE DOOR, PROVIDED THE DOOR DOES NOT SWING OVER THE STAIRWAY.

R311.3.3 STORM AND SCREEN DOORS

STORM AND SCREEN DOORS SHALL BE PERMITTED TO SWING OVER ALL EXTERIOR STAIRS AND LANDINGS.

R311.7.1 WIDTH

STAIRWAYS SHALL NOT BE LESS THAN 36 INCHES (914 MM) IN CLEAR WIDTH AT ALL POINTS ABOVE THE PERMITTED HANDRAIL HEIGHT AND BELOW THE REQUIRED HEADROOM HEIGHT. HANDRAILS SHALL NOT PROJECT MORE THAN 4.5 INCHES (114 MM) ON EITHER SIDE OF THE STAIRWAY AND THE MINIMUM CLEAR WIDTH OF THE STAIRWAY AT AND BELOW THE HANDRAIL HEIGHT, INCLUDING TREADS AND LANDINGS, SHALL NOT BE LESS THAN 31 1/2 INCHES (787 MM) WHERE A HANDRAIL IS INSTALLED ON ONE SIDE AND 27 INCHES (698 MM) WHERE HANDRAILS ARE PROVIDED ON BOTH SIDES.

R311.7.2 HEADROOM

THE MINIMUM HEADROOM IN ALL PARTS OF THE STAIRWAY SHALL NOT BE LESS THAN 6 FEET 8 INCHES (2032 MM) MEASURED VERTICALLY FROM THE SLOPED LINE ADJOINING THE TREAD NOSING OR FROM THE FLOOR SURFACE OF THE LANDING OR PLATFORM ON THAT PORTION OF THE STAIRWAY.

EXCEPTION:

WHERE THE NOSINGS OF TREADS AT THE SIDE OF A FLIGHT EXTEND UNDER THE EDGE OF A FLOOR OPENING THROUGH WHICH THE STAIR PASSES, THE FLOOR OPENING SHALL BE ALLOWED TO PROJECT HORIZONTALLY INTO THE REQUIRED HEADROOM A MAXIMUM OF 4 3/4 INCHES (121 MM).

R311.7.4 STAIR TREADS AND RISERS

STAIR TREADS AND RISERS SHALL MEET THE REQUIREMENTS OF THIS SECTION. FOR THE PURPOSE OF THIS SECTION ALL DIMENSIONS AND DIMENSIONED SURFACES SHALL BE EXCLUSIVE OF CARPETS, RUGS OR RUNNERS.

R311.7.4.1 RISER HEIGHT

THE MAXIMUM RISER HEIGHT SHALL BE 8 1/4 INCHES (210 MM). THE RISER SHALL BE MEASURED VERTICALLY BETWEEN LEADING EDGES OF THE ADJACENT TREADS. THE GREATEST RISER HEIGHT WITHIN ANY FLIGHT OF STAIRS SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8 INCH (9.5 MM).

R311.7.4.2 TREAD DEPTH

THE MINIMUM TREAD DEPTH SHALL BE 9 INCHES (229 MM). THE TREAD DEPTH SHALL BE MEASURED HORIZONTALLY BETWEEN THE VERTICAL PLANES OF THE FOREMOST PROJECTION OF ADJACENT TREADS AND AT A RIGHT ANGLE TO THE TREAD'S LEADING EDGE. THE GREATEST TREAD DEPTH WITHIN ANY FLIGHT OF STAIRS SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8 INCH (9.5 MM). CONSISTENTLY SHAPED WINDERS AT THE WALKLINE SHALL BE ALLOWED WITHIN THE SAME FLIGHT OF STAIRS AS RECTANGULAR TREADS AND DO NOT HAVE TO BE WITHIN 3/8 INCH (9.5 MM) OF THE RECTANGULAR TREAD DEPTH. WINDER TREADS SHALL HAVE A MINIMUM TREAD DEPTH OF 9 INCHES (229 MM) MEASURED BETWEEN THE VERTICAL PLANES OF THE FOREMOST PROJECTION OF ADJACENT TREADS AT THE INTERSECTIONS WITH THE WALKLINE. WINDER TREADS SHALL HAVE A MINIMUM TREAD DEPTH OF 6 INCHES (152 MM) AT ANY POINT WITHIN THE CLEAR WIDTH OF THE STAIR. WITHIN ANY FLIGHT OF STAIRS, THE LARGEST WINDER TREAD DEPTH AT THE WALKLINE SHALL NOT EXCEED THE SMALLEST WINDER TREAD BY MORE THAN 3/8 INCH (9.5 MM).

R311.7.4.3 PROFILE

THE RADIUS OF CURVATURE AT THE NOSING SHALL BE NO GREATER THAN 9/16 INCH (14 MM). A NOSING NOT LESS THAN 3/4 INCH (19 MM) BUT NOT MORE THAN 1 1/4 INCHES (32 MM) SHALL BE PROVIDED ON STAIRWAYS WITH SOLID RISERS. THE GREATEST NOSING PROJECTION SHALL NOT EXCEED THE SMALLEST NOSING PROJECTION BY MORE THAN 3/8 INCH (9.5 MM) BETWEEN TWO STORIES, INCLUDING THE NOSING AT THE LEVEL OF FLOORS AND LANDINGS. BEVELING OF NOSINGS SHALL NOT EXCEED 1/2 INCH (12.7 MM). RISERS SHALL BE VERTICAL OR SLOPED UNDER THE TREAD ABOVE FROM THE UNDERSIDE OF THE NOSING ABOVE AT AN ANGLE NOT MORE THAN 30 DEGREES (0.51 RAD) FROM THE VERTICAL. OPEN RISERS ARE PERMITTED, PROVIDED THAT THE OPENING BETWEEN TREADS DOES NOT PERMIT THE PASSAGE OF A 4-INCH DIAMETER (102 MM) SPHERE.

EXCEPTIONS:

1. NOSING IS NOT REQUIRED WHERE THE TREAD DEPTH IS A MINIMUM OF 11 INCHES (279 MM).
2. THE OPENING BETWEEN ADJACENT TREADS IS NOT LIMITED ON STAIRS WITH TOTAL RISE OF 30 INCHES (762 MM) OR LESS.

R311.7.4.4 EXTERIOR WOOD/PLASTIC COMPOSITE STAIR TREADS

WOOD/PLASTIC COMPOSITE STAIR TREADS SHALL COMPLY WITH THE PROVISIONS OF SECTION R317.4.

R311.7.5 LANDINGS FOR STAIRWAYS

THERE SHALL BE A FLOOR OR LANDING AT THE TOP AND BOTTOM OF EACH STAIRWAY.

EXCEPTION:

A FLOOR OR LANDING IS NOT REQUIRED AT THE TOP OF INTERIOR FLIGHT OF

STAIRS, INCLUDING STAIRS IN AN ENCLOSED GARAGE, PROVIDED A DOOR DOES NOT SWING OVER THE STAIRS. A FLIGHT OF STAIRS SHALL NOT HAVE A

VERTICAL RISE LARGER THAN 12 FEET (3658 MM) BETWEEN FLOOR LEVELS OR

LANDINGS. THE WIDTH OF EACH LANDING SHALL NOT BE LESS THAN THE WIDTH OF THE STAIRWAY SERVED. EVERY LANDING SHALL HAVE A MINIMUM

DIMENSION OF 36 INCHES (914 MM) MEASURED IN THE DIRECTION OF TRAVEL.

R311.7.6 STAIRWAY WALKING SURFACE

THE WALKING SURFACE OF TREADS AND LANDINGS OF STAIRWAYS SHALL BE SLOPED NO STEEPER THAN ONE UNIT VERTICAL IN 48 INCHES HORIZONTAL (2-PERCENT SLOPE).

STAIRWAYS (CONT.)

R311.7.7 HANDRAILS

HANDRAILS SHALL BE PROVIDED ON AT LEAST ONE SIDE OF EACH CONTINUOUS RUN OF TREADS OR FLIGHT WITH FOUR OR MORE RISERS.

R311.7.7.1 HEIGHT

HANDRAIL HEIGHT, MEASURED VERTICALLY FROM THE SLOPED PLANE ADJOINING THE TREAD NOSING, OR FINISH SURFACE OF RAMP SLOPE, SHALL BE NOT LESS THAN 30 INCHES (762 MM) AND NOT MORE THAN 38 INCHES (965 MM).

EXCEPTIONS:

THE USE OF A VOLUTE, TURNOUT OR STARTING EASING SHALL BE ALLOWED OVER THE LOWEST TREAD.

WHEN HANDRAIL FITTINGS OR BENDINGS ARE USED TO PROVIDE CONTINUOUS TRANSITION BETWEEN FLIGHTS, THE TRANSITION FROM HANDRAIL TO GUARDRAIL, OR USED AT THE START OF A FLIGHT, THE HANDRAIL HEIGHT AT THE FITTINGS OR BENDINGS SHALL BE PERMITTED TO EXCEED THE MAXIMUM HEIGHT.

GUARDS

R312.1 WHERE REQUIRED

GUARDS SHALL BE LOCATED ALONG OPEN-SIDED WALKING SURFACES, INCLUDING STAIRS, RAMPS AND LANDINGS, THAT ARE LOCATED MORE THAN 30 INCHES (762 MM) MEASURED VERTICALLY TO THE FLOOR OR GRADE BELOW AT ANY POINT WITHIN 36 INCHES (914 MM) HORIZONTALLY TO THE EDGE OF THE OPEN SIDE. INSECT SCREENING SHALL NOT BE CONSIDERED AS A GUARD.

R312.2 HEIGHT

REQUIRED GUARDS AT OPEN-SIDED WALKING SURFACES, INCLUDING STAIRS, PORCHES, BALCONIES OR LANDINGS, SHALL BE NOT LESS THAN 36 INCHES (914 MM) HIGH MEASURED VERTICALLY ABOVE THE ADJACENT WALKING SURFACE. ADJACENT FIXED SEATING OR THE LINE CONNECTING THE LEADING EDGES OF THE TREADS.

EXCEPTIONS:

GUARDS ON THE OPEN SIDES OF STAIRS SHALL HAVE A HEIGHT NOT LESS THAN 30 INCHES (762 MM) MEASURED VERTICALLY FROM A LINE CONNECTING THE LEADING EDGES OF THE TREADS.

WHERE THE TOP OF THE GUARD ALSO SERVES AS A HANDRAIL ON THE OPEN SIDES OF STAIRS, THE TOP OF THE GUARD SHALL NOT BE NOT LESS THAN 30 INCHES (762 MM) AND NOT MORE THAN 38 INCHES (965 MM) MEASURED VERTICALLY FROM A LINE CONNECTING THE LEADING EDGES OF THE TREADS.

R312.3 OPENING LIMITATIONS

REQUIRED GUARDS SHALL NOT HAVE OPENINGS FROM THE WALKING SURFACE TO THE REQUIRED GUARD HEIGHT WHICH ALLOW PASSAGE OF A SPHERE 4 INCHES (102 MM) IN DIAMETER.

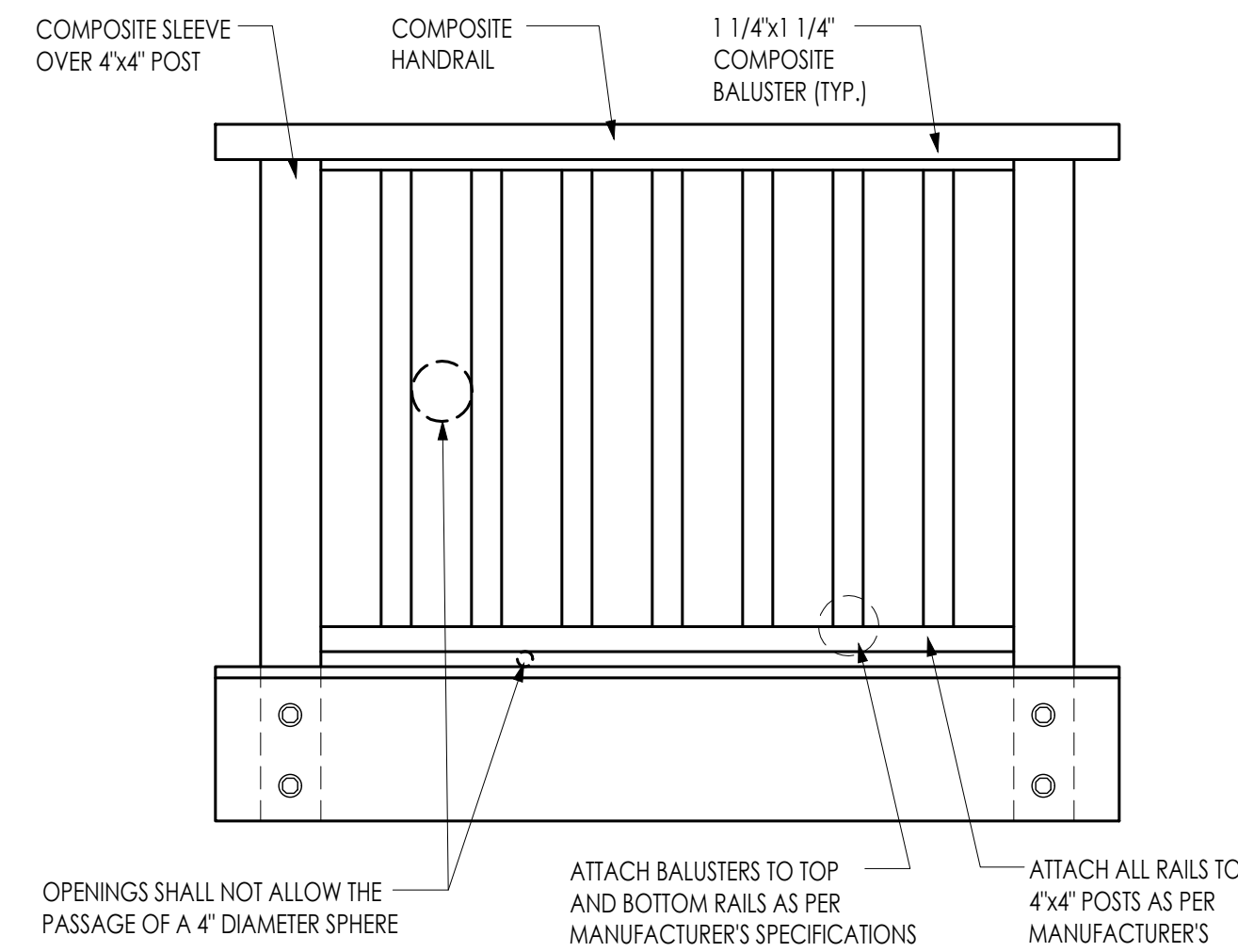
EXCEPTIONS:

THE TRIANGULAR OPENINGS AT THE OPEN SIDE OF A STAIR, FORMED BY THE RISER, TREAD AND BOTTOM RAIL OF A GUARD, SHALL NOT ALLOW PASSAGE OF A SPHERE 6 INCHES (153 MM) IN DIAMETER.

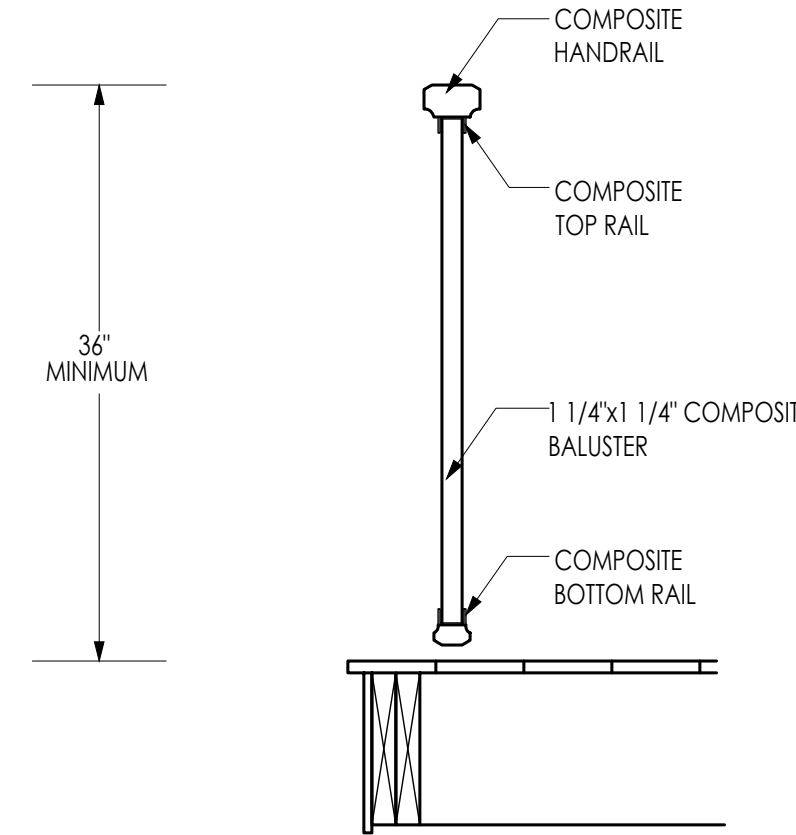
GUARDS ON THE OPEN SIDES OF STAIRS SHALL NOT HAVE OPENINGS WHICH ALLOW PASSAGE OF A SPHERE 4 3/8 INCHES (111 MM) IN DIAMETER.

R312.4 EXTERIOR WOOD/PLASTIC COMPOSITE GUARDS

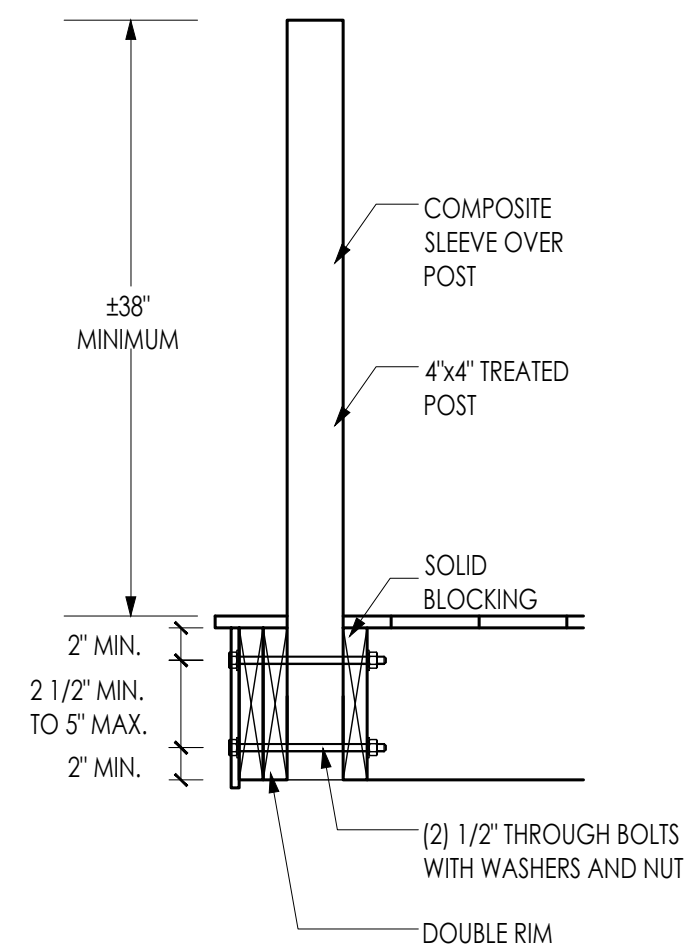
WOOD/PLASTIC COMPOSITE GUARDS SHALL COMPLY WITH THE PROVISIONS OF SECTION R317.4.



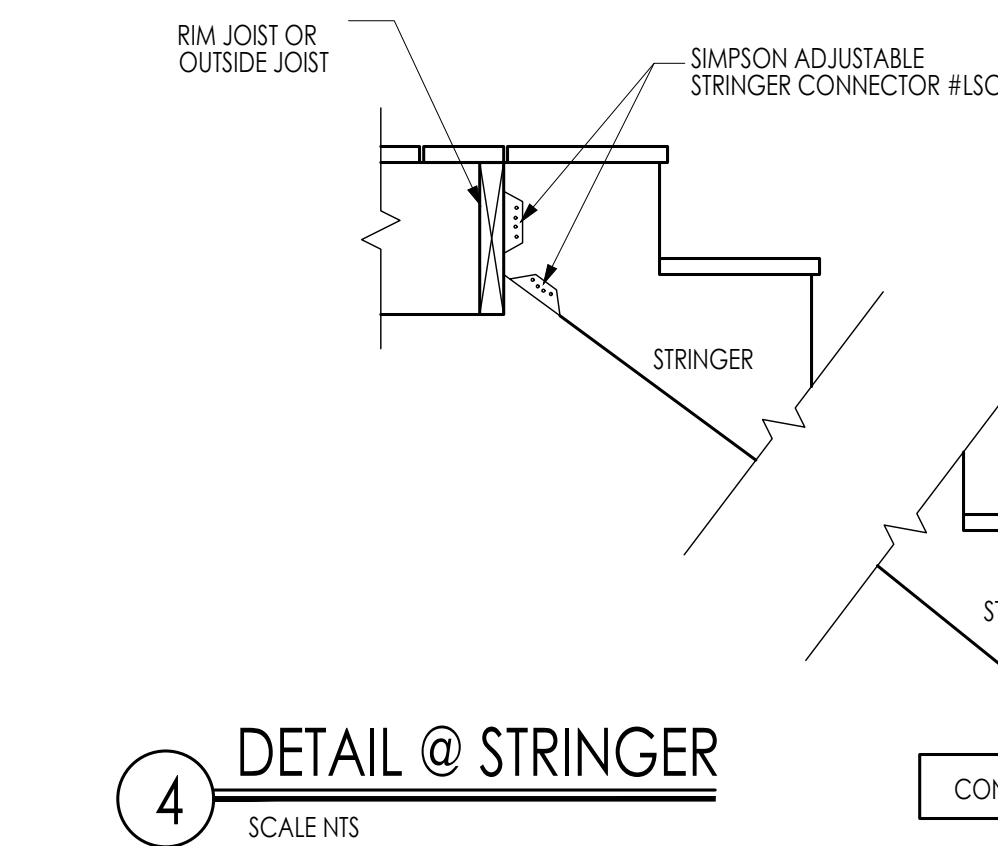
1 ELEVATION @ GUARD
SCALE NTS



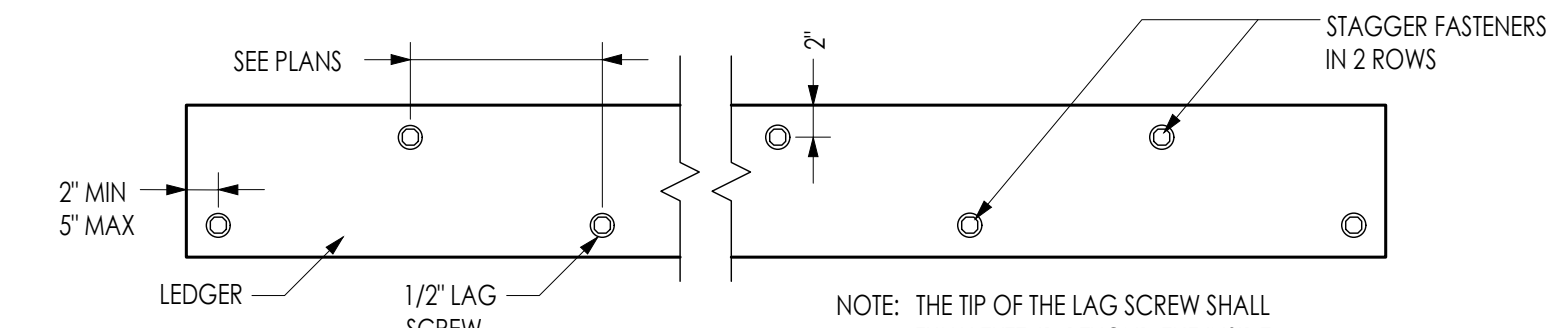
2 SECTION @ RAIL
SCALE NTS



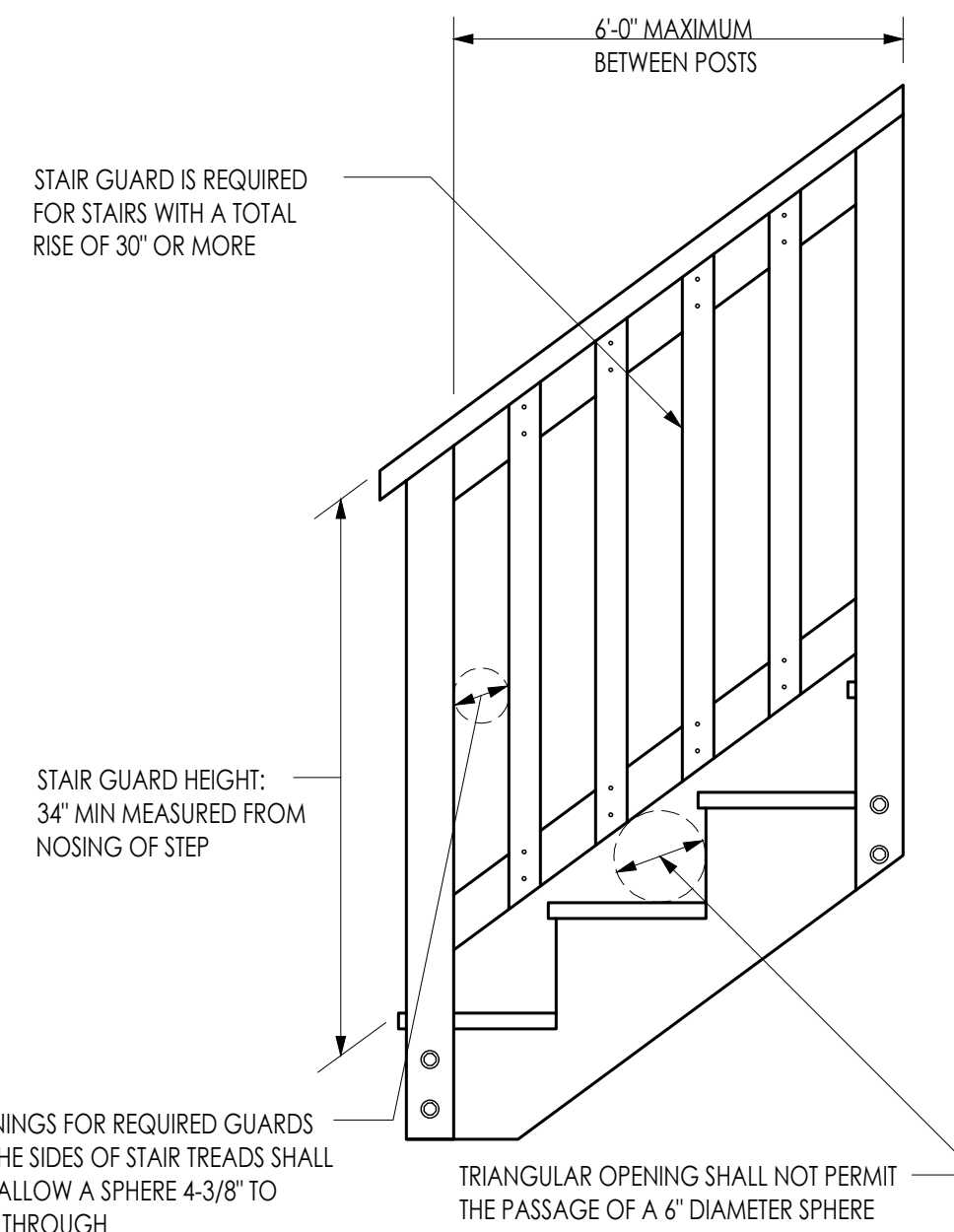
3 SECTION @ POST
SCALE NTS



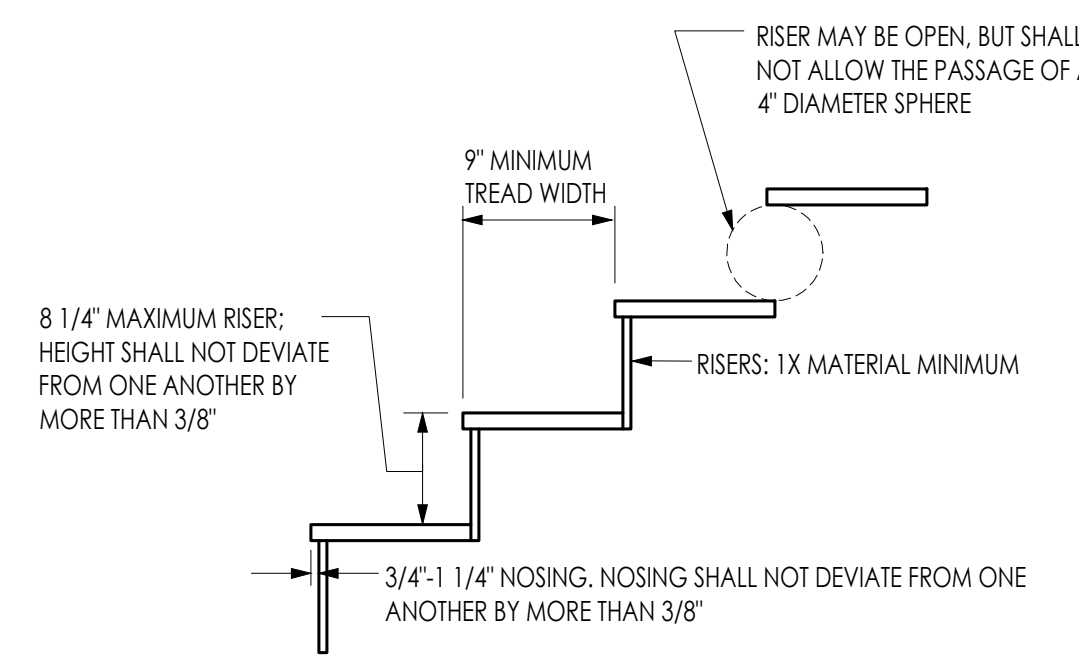
4 DETAIL @ STRINGER
SCALE NTS



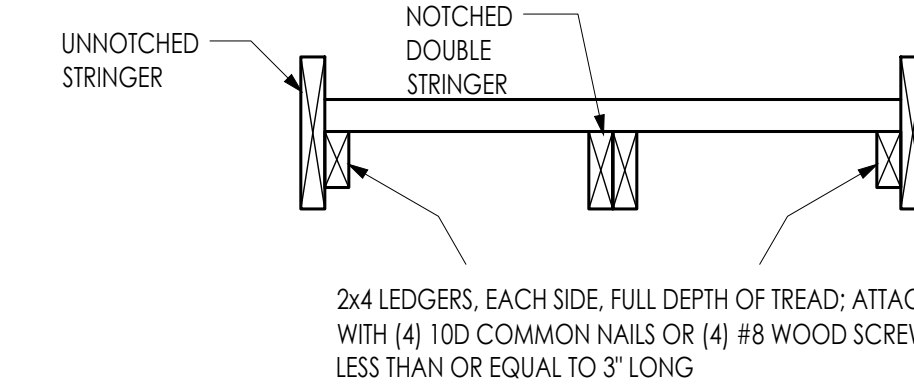
5 DETAIL @ LEDGER BOARD
SCALE NTS



6 DETAIL @ STAIR GUARD
SCALE NTS



7 DETAIL @ STAIR
SCALE NTS



8 DETAIL @ STRINGER
SCALE NTS

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TITLE:	NOTES AND DETAILS

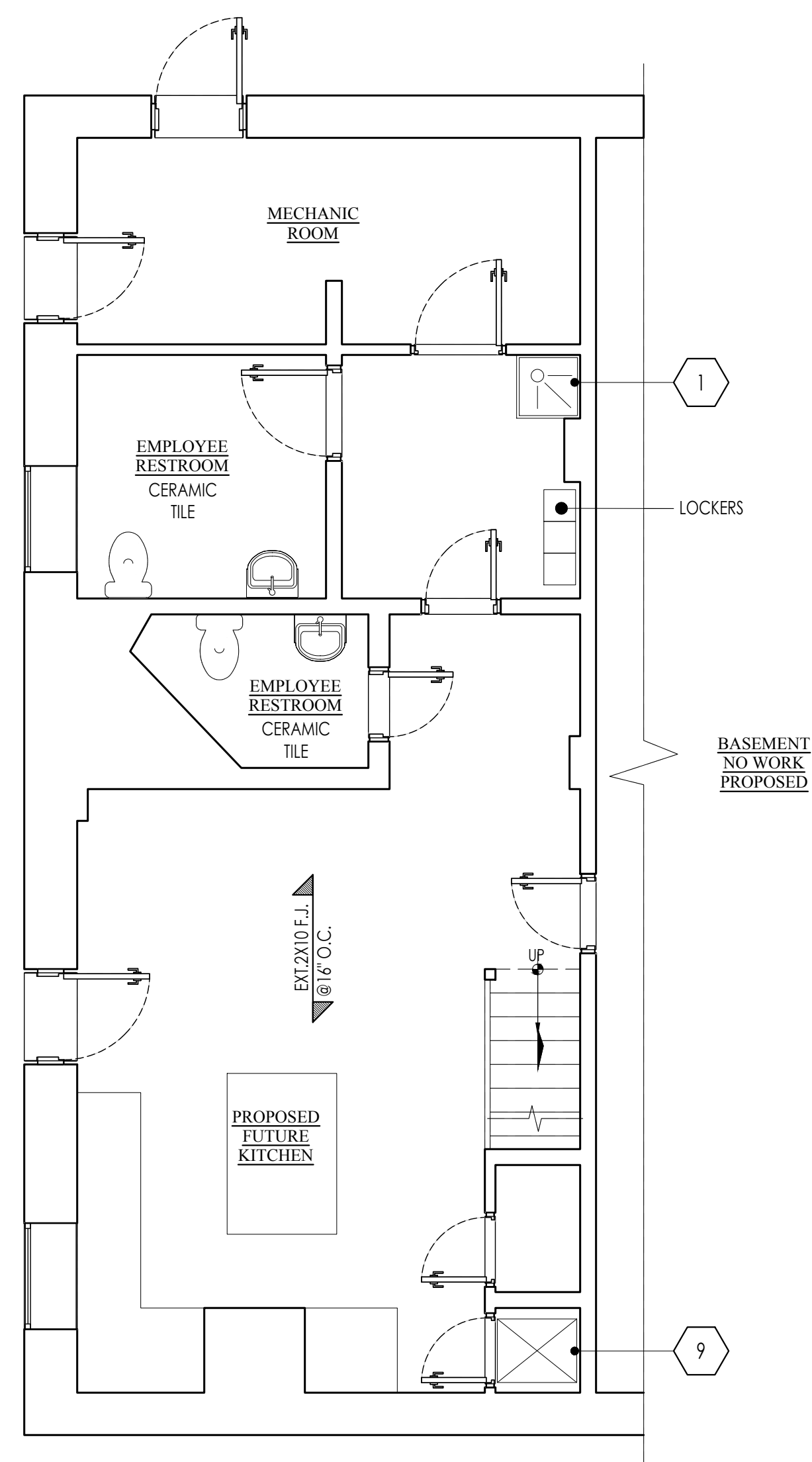
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GRAPHIC LEGEND

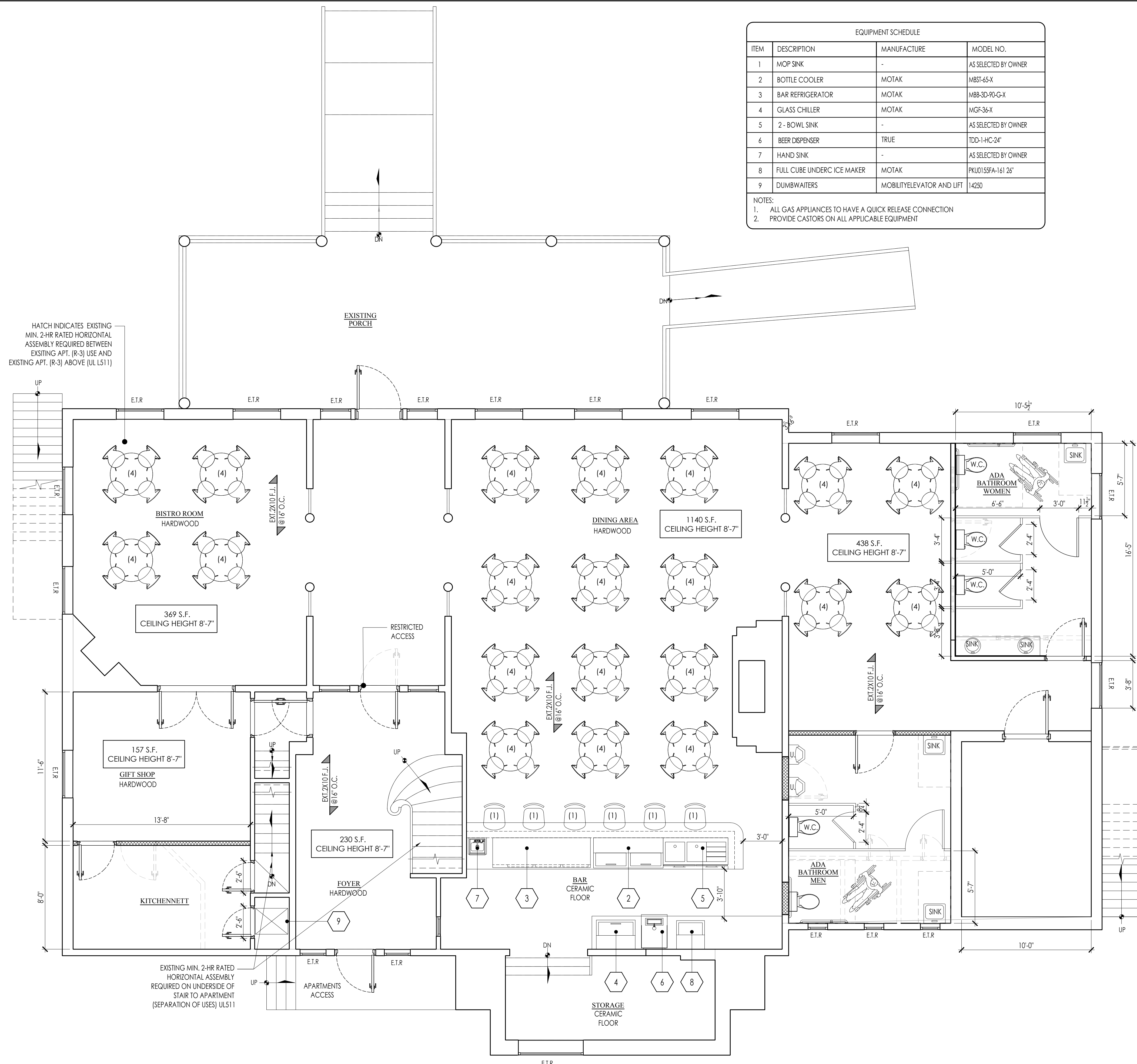
- EXISTING WALLS TO REMAIN
- INDICATES NEW FULL HEIGHT WALL 2x6" WOODS STUDS @16" O.C.
- INDICATES NEW FULL HEIGHT WALL 2x4" WOODS STUDS @16" O.C.
- INDICATES NEW FULL HEIGHT BLOCK WALL
- INDICATES NEW FULL HEIGHT BLOCK WALL AND FOUNDATION
- LINE INDICATES EXISTING ITEM
- INDICATES DOOR (3x6 INDICATES WITH AND HEIGHT)
- INDICATES WINDOW TYPE
- PARTITION TYPE TAG

EQUIPMENT SCHEDULE			
ITEM	DESCRIPTION	MANUFACTURE	MODEL NO.
1	MOP SINK	-	AS SELECTED BY OWNER
2	BOTTLE COOLER	MOTAK	MBST-65-X
3	BAR REFRIGERATOR	MOTAK	M88-3D-90-G-X
4	GLASS CHILLER	MOTAK	MGF-36-X
5	2 - BOWL SINK	-	AS SELECTED BY OWNER
6	BEER DISPENSER	TRUE	TDD-1-HC-24"
7	HAND SINK	-	AS SELECTED BY OWNER
8	FULL CUBE UNDERC ICE MAKER	MOTAK	PK00155FA-161 26"
9	DUMBWAITERS	MOBILITYELEVATOR AND LIFT	14250

NOTES:
 1. ALL GAS APPLIANCES TO HAVE A QUICK RELEASE CONNECTION
 2. PROVIDE CASTORS ON ALL APPLICABLE EQUIPMENT



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



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

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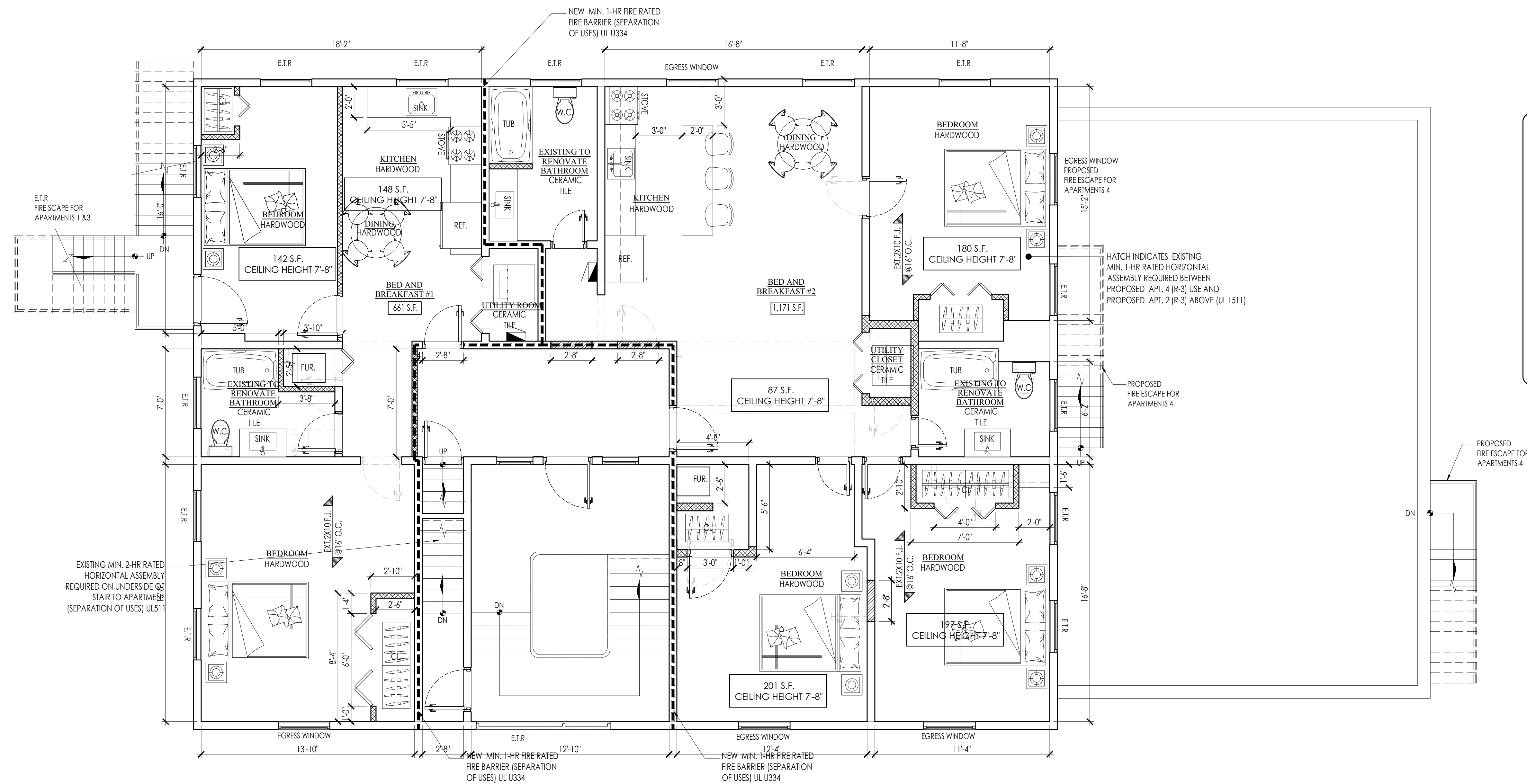
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 DRAWN BY: GCV
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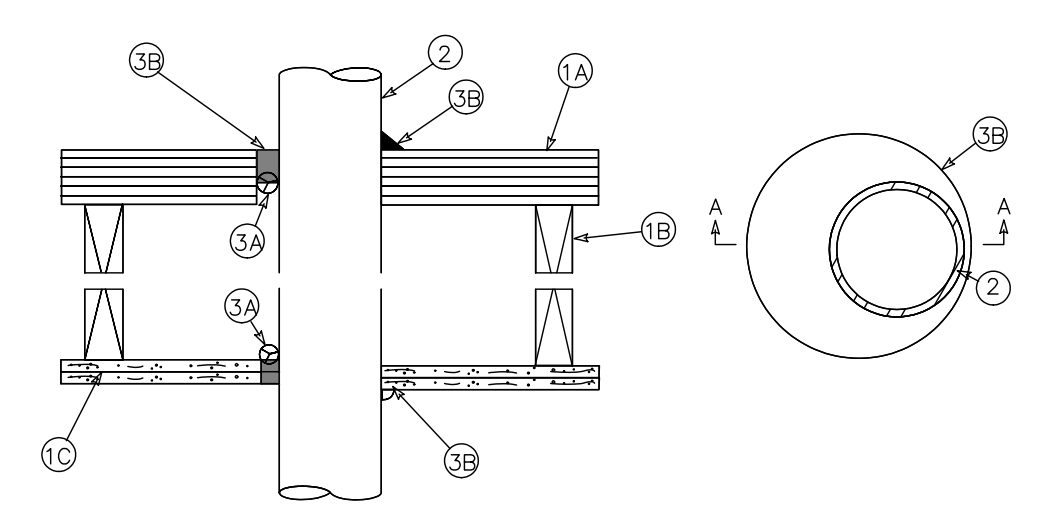
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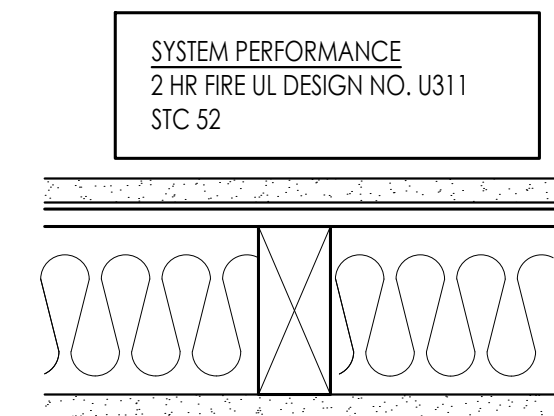
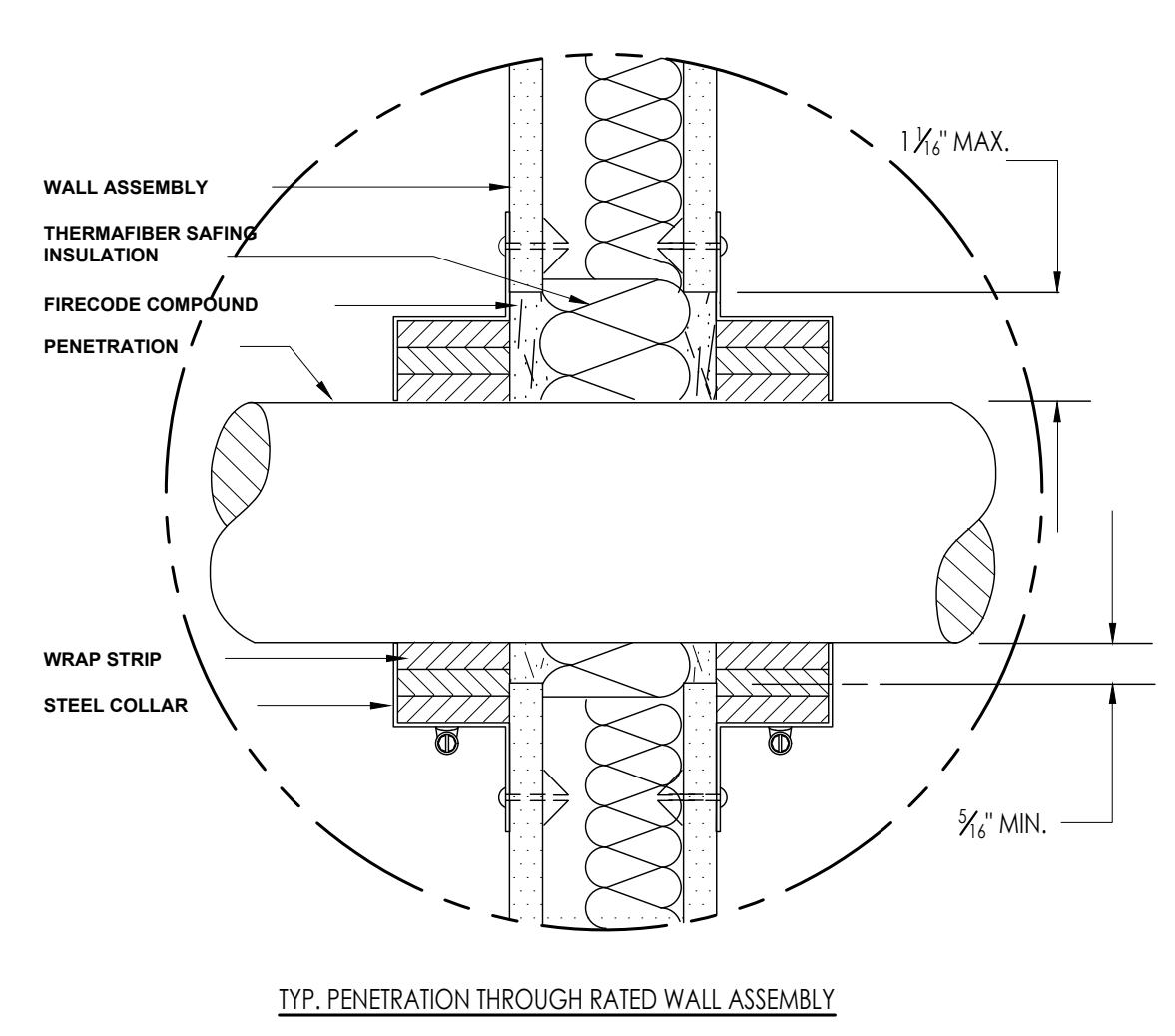
GRAPHIC LEGEND

- EXISTING WALLS TO REMAIN
- INDICATES NEW FULL HEIGHT WALL 2x4" WOODS STUDS @16" O.C.
- INDICATES NEW FULL HEIGHT WALL 2x4" WOODS STUDS @16" O.C.
- INDICATES NEW FULL HEIGHT BLOCK WALL
- INDICATES NEW FULL HEIGHT BLOCK WALL AND FOUNDATION
- LINE INDICATES EXISTING ITEM
- INDICATES DOOR (3x6 INDICATES WITH AND HEIGHT)
- INDICATES WINDOW TYPE
- PARTITION TYPE TAG

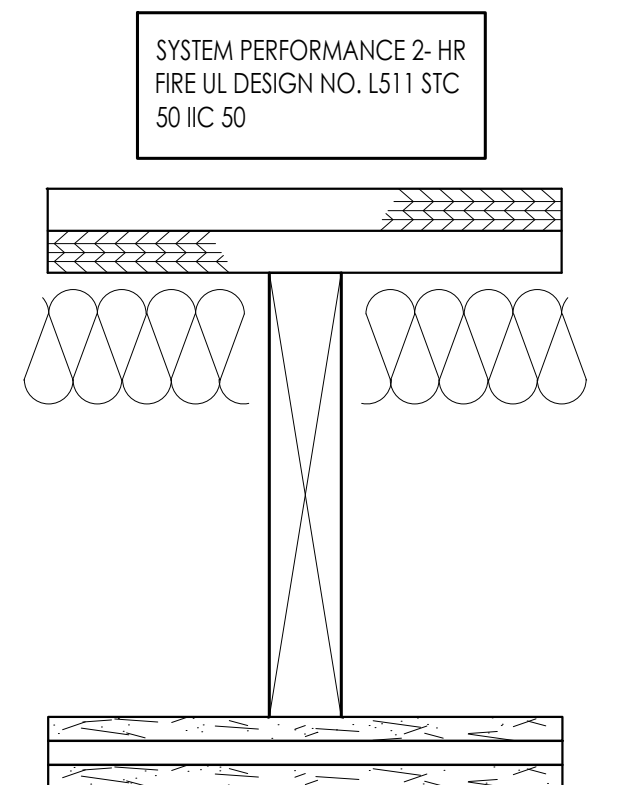
1 SECOND FLOOR PLAN
1/4" = 1'-0"



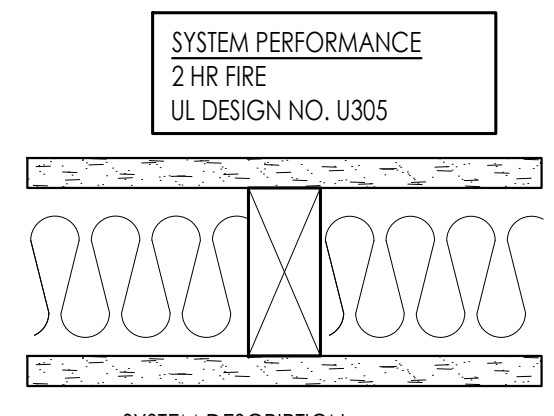
- TYP. PENETRATION THROUGH RATED FLOOR ASSEMBLY**
SYSTEM DESCRIPTION F-C-1069
- FLOOR/CEILING ASSEMBLY:
 - A. FLOORING SYSTEM: 3/4" PLYWOOD
 - B. WOOD JOIST: NOM. 2" X 12" LUMBER JOIST.
 - C. CEILING SYSTEM: 2 LAYER OF 5/8" GYPSUM WALLBOARD, PER UL DESIGN.
 - METALLIC PIPE:
 - A. STEEL PIPE: 8" DIAMETER (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL PIPE.
 - B. IRON PIPE: 8" DIAMETER (OR SMALLER) CAST OR DUCTILE IRON PIPE.
 - C. CONDUIT: 4" DIAMETER (OR SMALLER) ELECTRICAL METALLIC TUBING (EMT) OR STEEL CONDUIT.
 - D. COPPER TUBING: 4" DIAMETER (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
 - E. COPPER PIPE: 4" DIAMETER (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE, ANNULAR SPACE FROM MINIMUM 0" TO MAXIMUM 7/8".
 - FORMING AND FIRE STOP MATERIALS:
 - A. FORMING MATERIAL (OPTIONAL): FOAM BACKER ROD PACKED INTO OPENING AS A PERMANENT FORM.
 - B. TYPE IA: MINIMUM 1/2" THICK SEALANT APPLIED WITHIN THE ANNULUS, FLUSH WITH THE TOP OF THE FLOOR AND BOTTOM OF THE CEILING ASSEMBLIES. ADDITIONAL SEALANT TO BE APPLIED SUCH THAT A MINIMUM 1/2" CROWN IS FORMED AROUND THE PENETRATING ITEM.



- SYSTEM DESCRIPTION**
WOOD STUD WALL
- 1 LAYER 5/8" IMPERIAL FIRECODE C CORE GYPSUM BASE
 - 25 GA. RESILIENT CHANNEL AT 24" O.C.
 - MIN. 2" X 4" WOOD STUDS 16" O.C.
 - MIN. 3" THICK MINERAL WOOL OR FIBERGLASS INSUL.
 - 1 LAYER 5/8" IMPERIAL FIRECODE C CORE GYPSUM BASE
 - JOINTS EXPOSED OR FINISHED



- SYSTEM DESCRIPTION**
DIMENSIONAL LUMBER
- TWO LAYER 5/8" SHEETROCK C CORE GYPSUM PANELS.
 - 1" NOMINAL WOOD SUB FLOOR ANF FINISH FLOOR.
 - MIN. 2X10 JOISTS 16" O.C.
 - 7/8" RESILIENT CHANNEL, MIN 25 GAUGE CORROSION PROTECTED STEEL SPACES MAX OF 24" O.C.
 - JOINTS FINISHED



- SYSTEM DESCRIPTION**
WOOD STUD WALL
- 1 LAYER 5/8" SHEETROCK BRAND TYPE X EXTERIOR SHEATING OR SECUROCK GLASS MAT SHEATING.
 - MIN. 2" X 4" WOOD STUDS 16" O.C.
 - 1 LAYER 5/8" SHEETROCK FIRECORE CORE GYPSUM
 - JOINTS EXPOSED OR FINISHED

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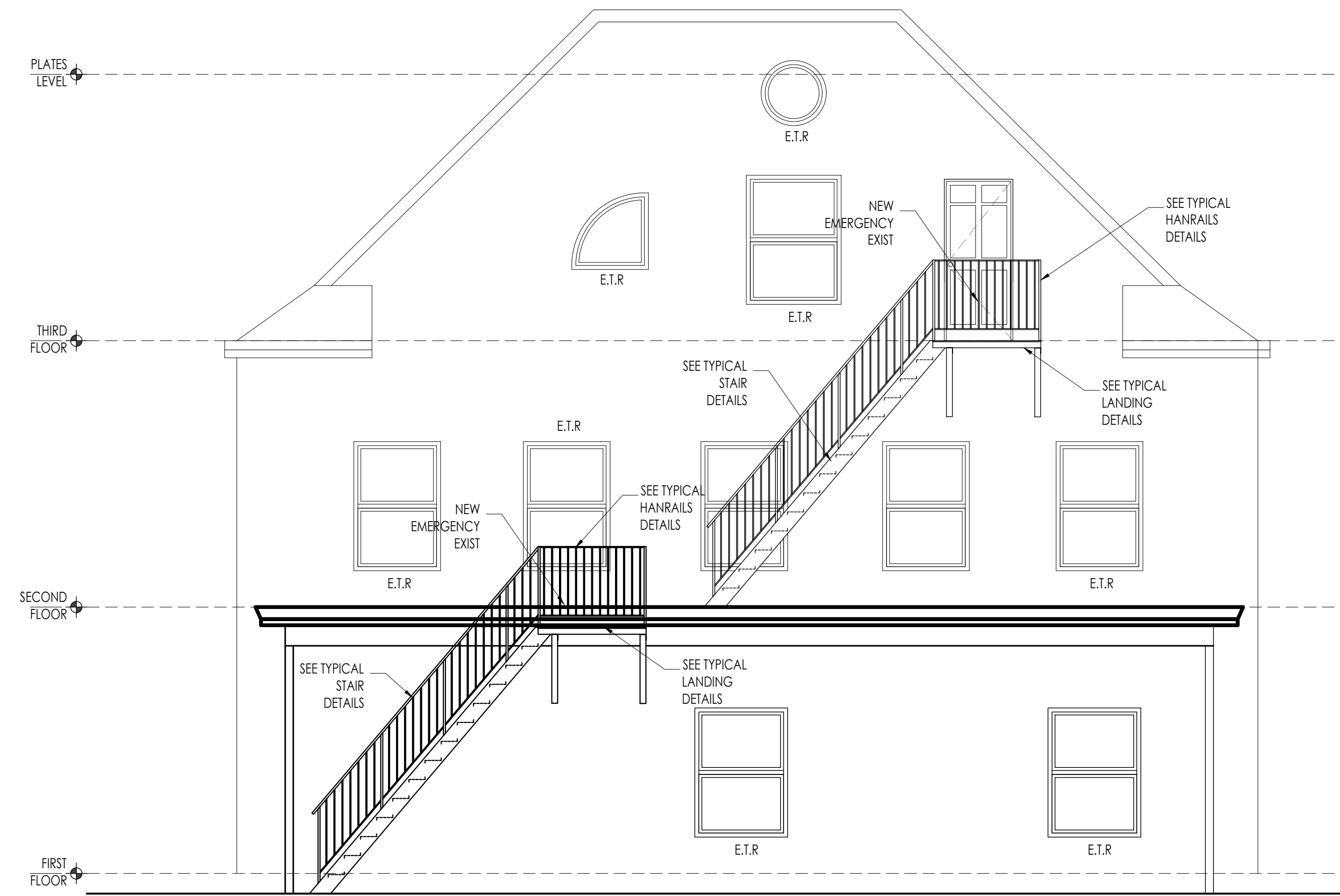
CONSULTANT

PROJECT NAME AND ADDRESS:

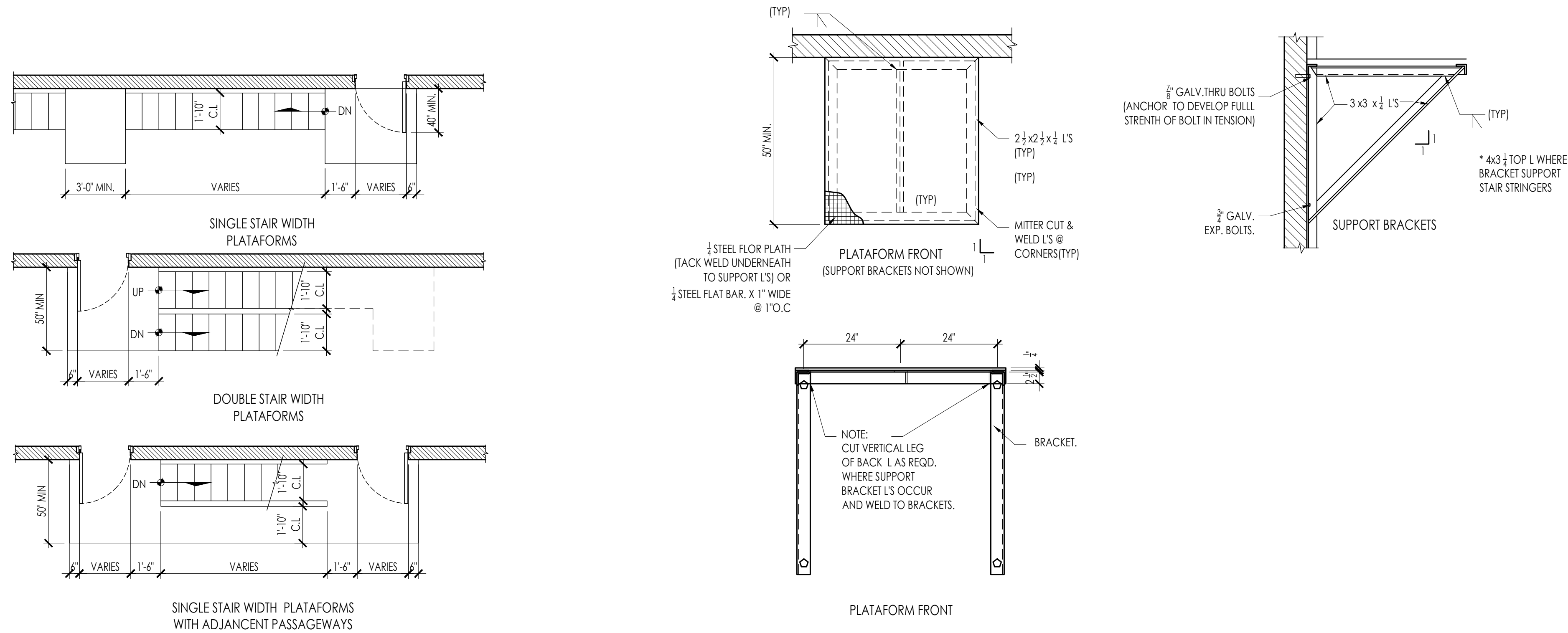
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SHEET NUMBER:
A-2



1 RARE ELEVATION
1/4" = 1'-0"



2 DETAILS OF LANDING PLATFORM SIZES
NTS

3 DETAILS OF LANDING PLATFORM COMPONENTS
NTS

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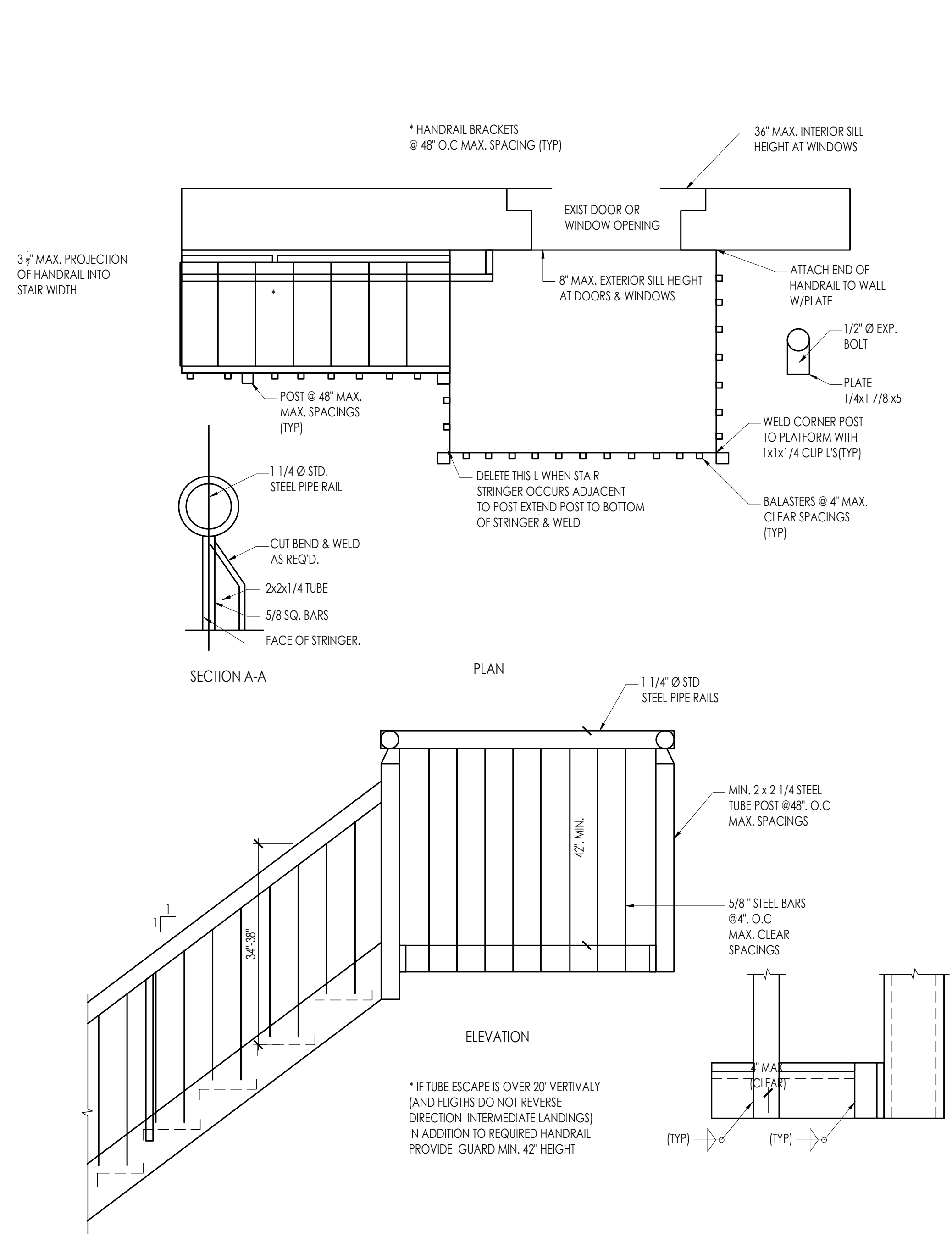
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TITLE: ELEVATION AND DETAILS

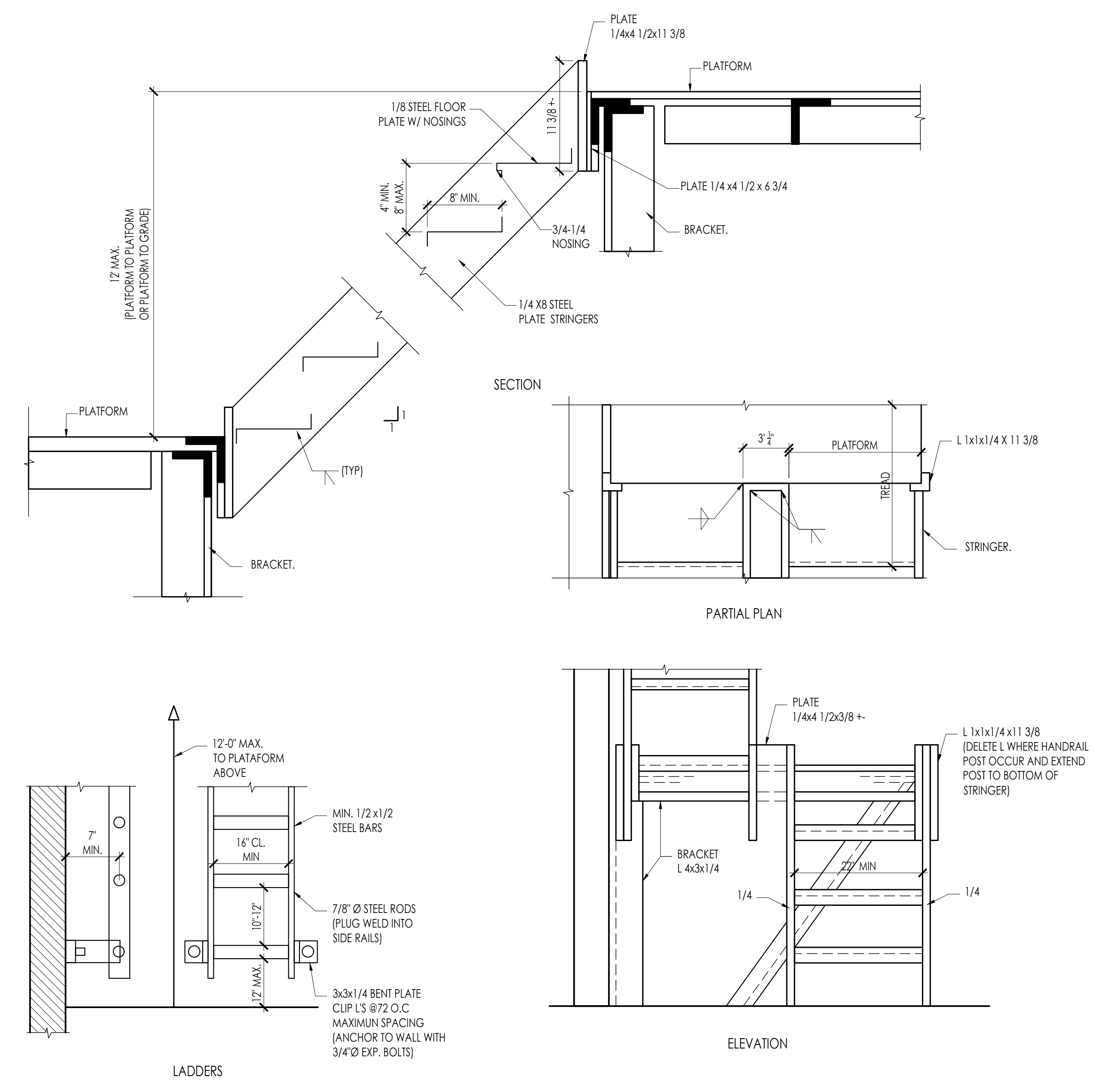
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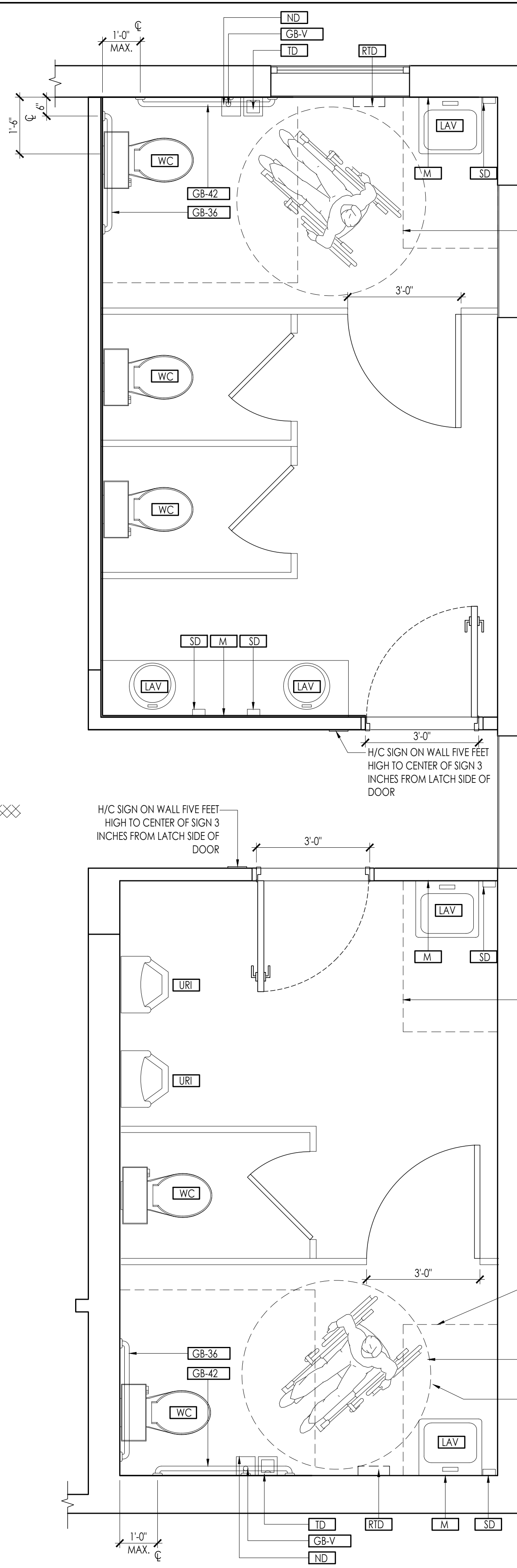
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TITLE:	DETAILS



1 DETAILS OF HANDRAIL/GUARD COMPONENTS
 NIS



1 DETAILS OF STAIRS FLIGHT COMPONENTS
 NIS



30"x48" CLEARANCE WITH LAVATORY (OVERLAP EXCEPTION)

30"x48" CLEARANCE WITH LAVATORY (OVERLAP EXCEPTION)

30"x48" CLEARANCE WITH LAVATORY (OVERLAP EXCEPTION)

MIN. 60" DIA. TURNING AREA PROVIDED

59"x60" CLEARANCE AT WATER CLOSET

603.2.3 DOOR SWING. DOORS SHALL NOT SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE REQUIRED FOR ANY FIXTURE. DOORS SHALL BE PERMITTED TO SWING INTO THE REQUIRED TURNING SPACE.

1 ENLARGED BATHROOM PLAN

1/2" = 1'-0"

PLUMBING FIXTURE NOTES

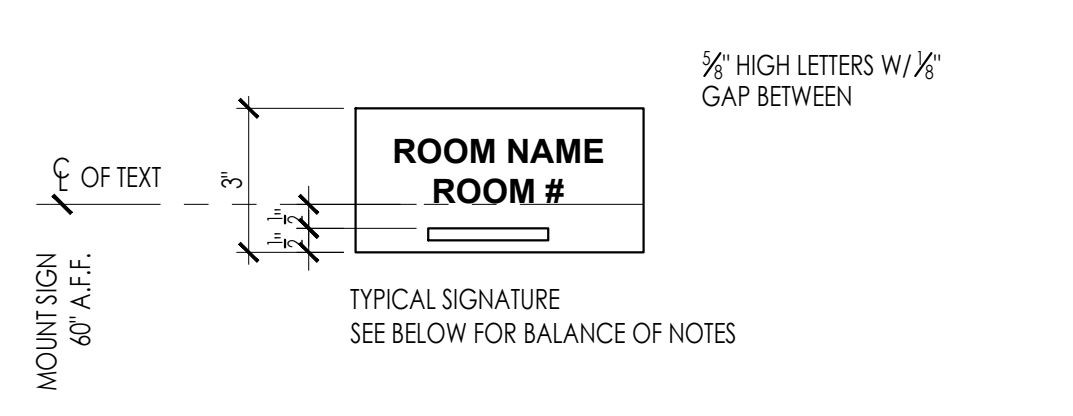
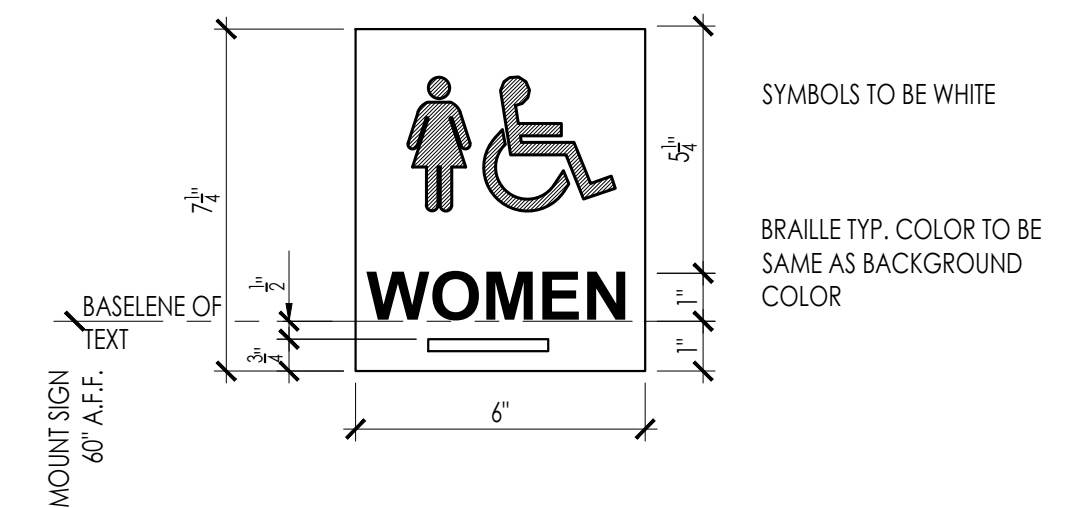
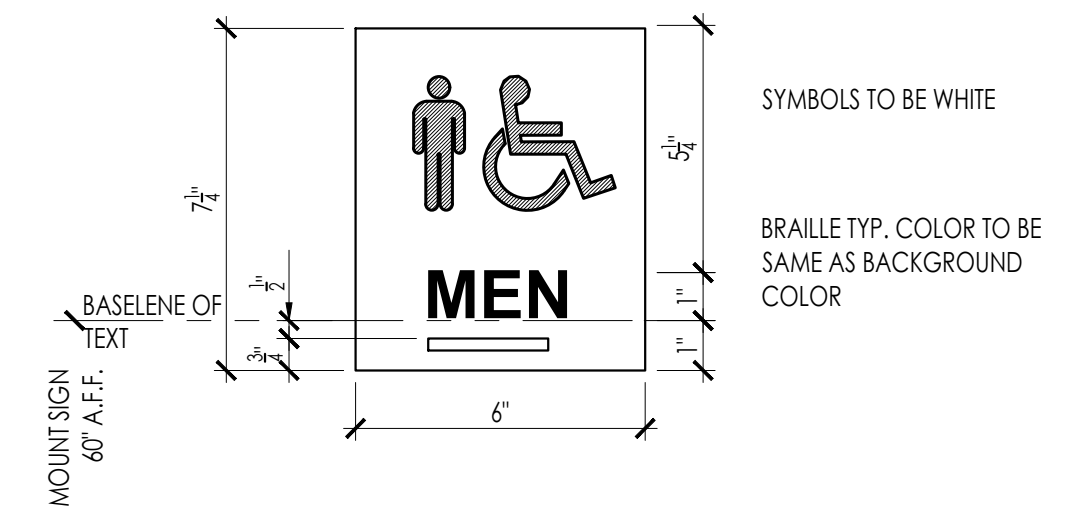
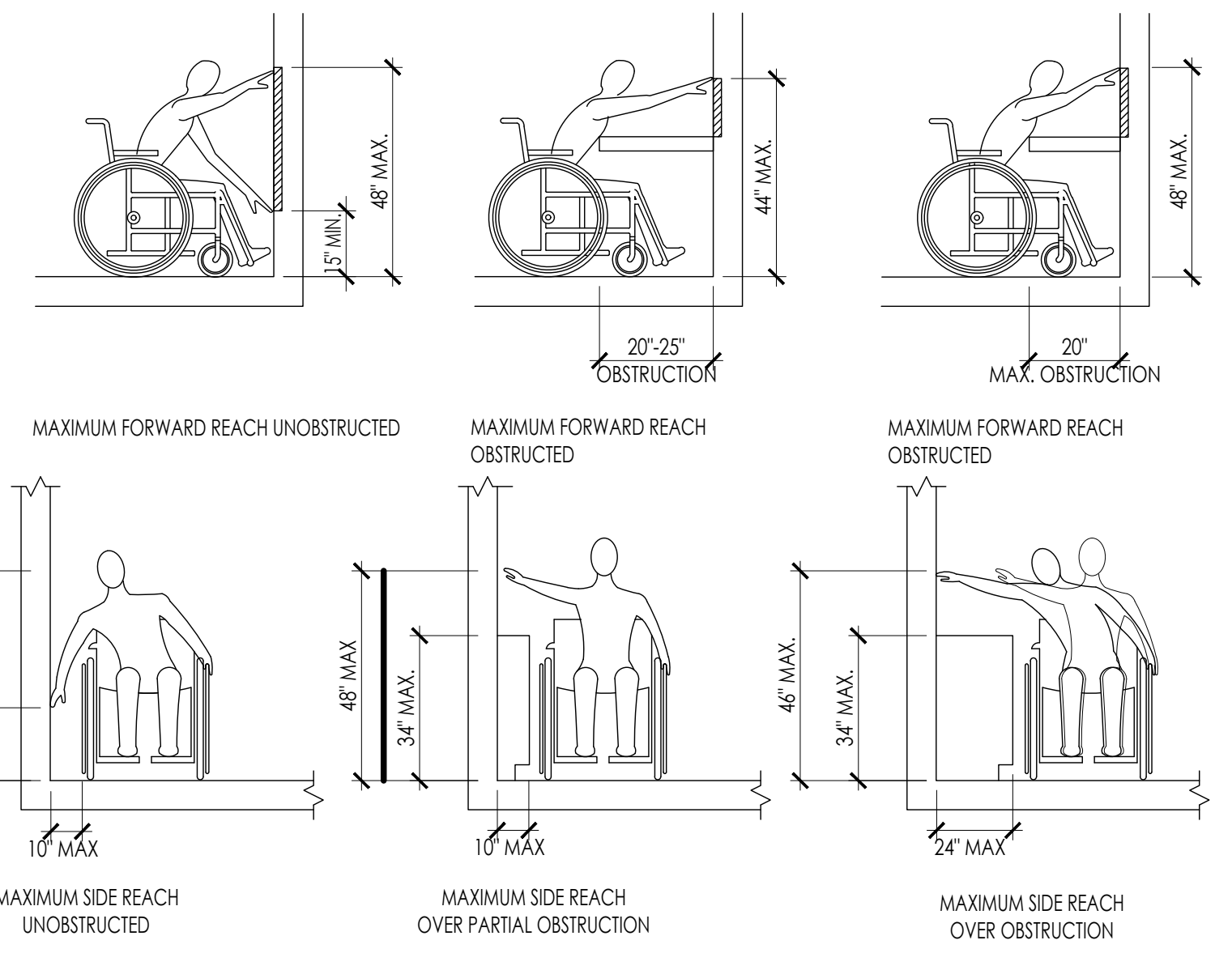
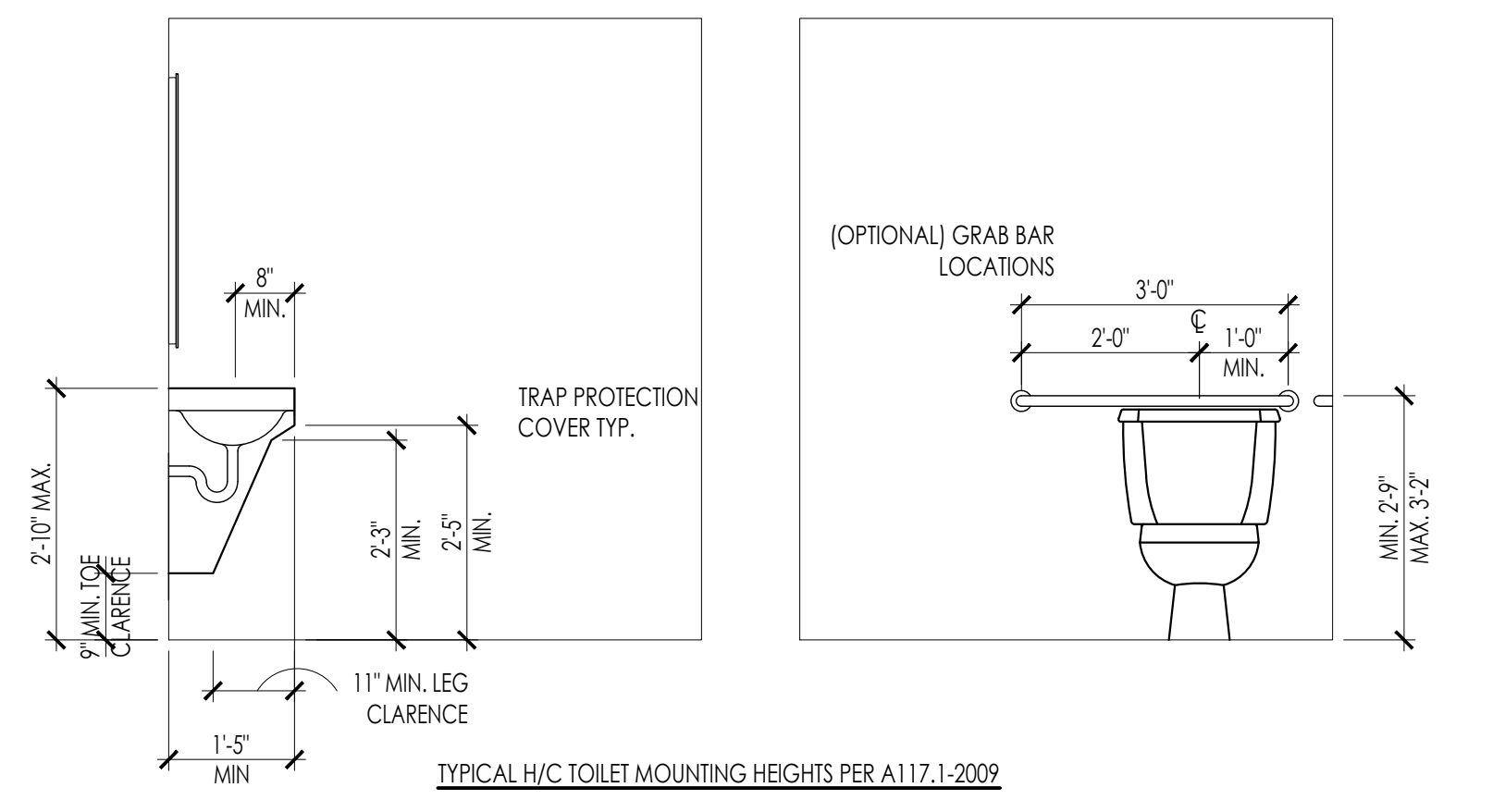
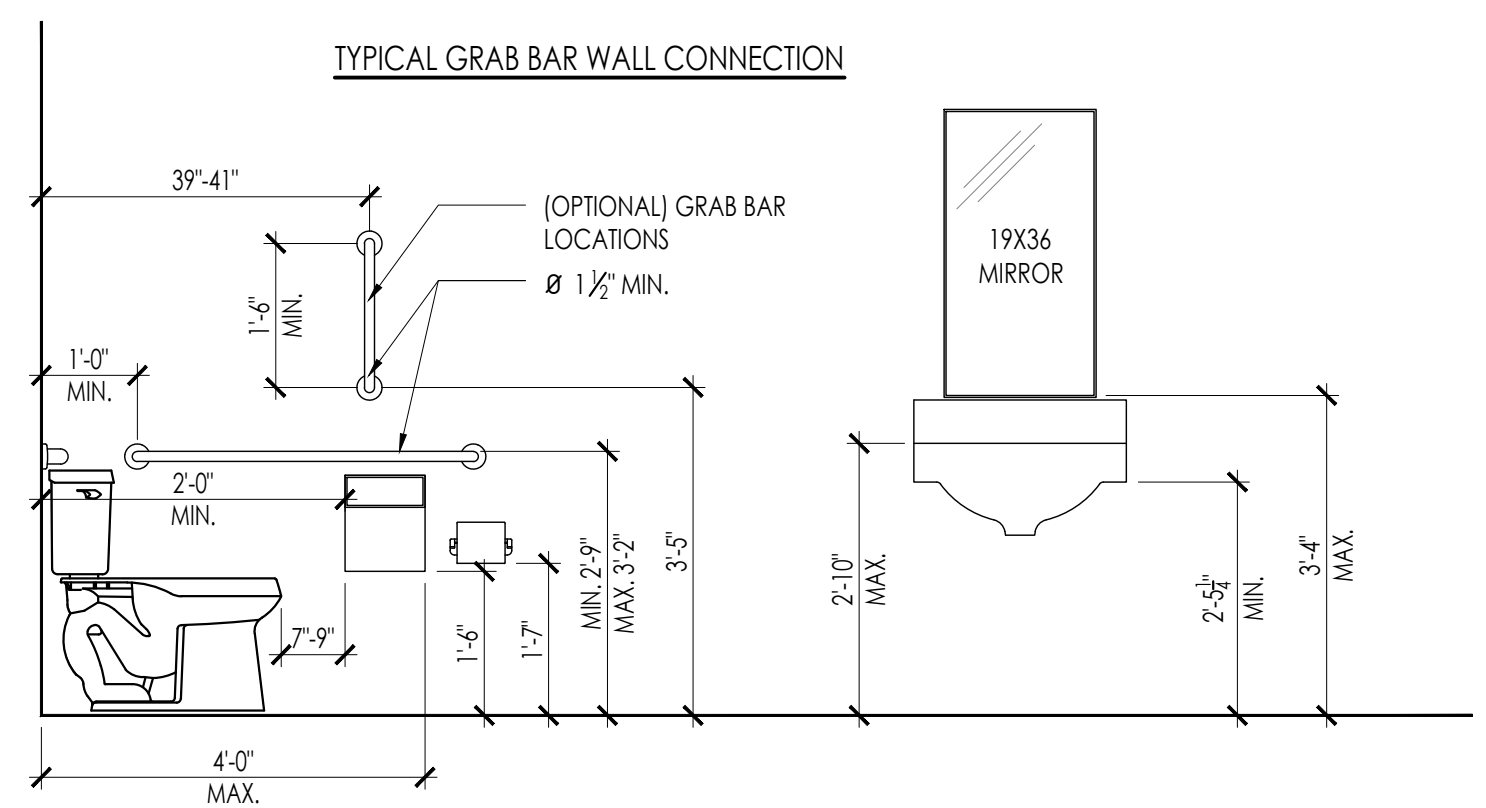
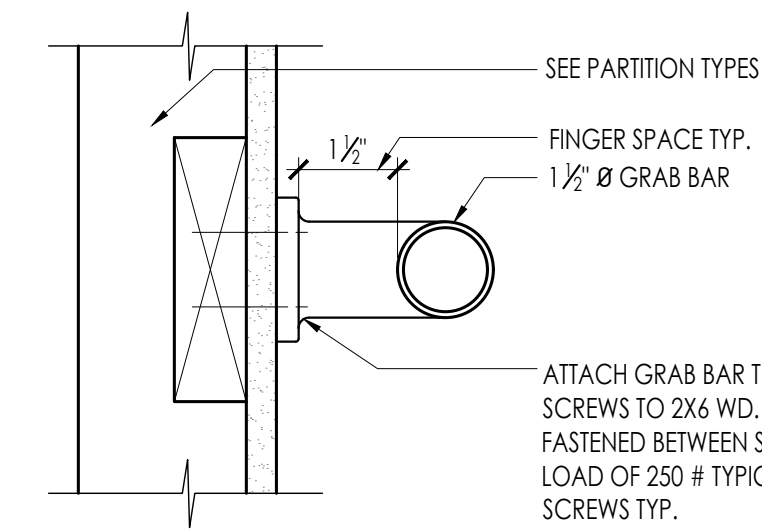
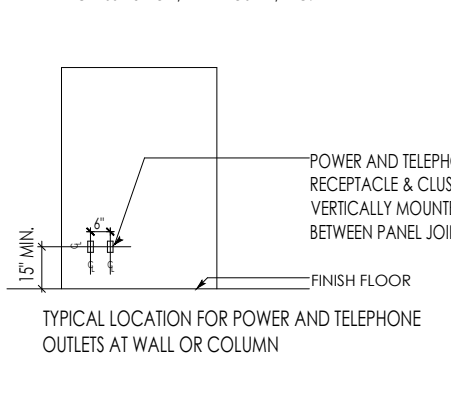
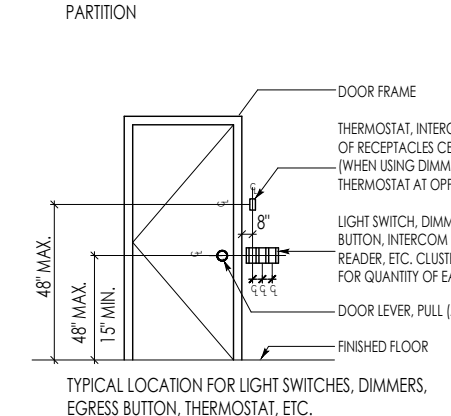
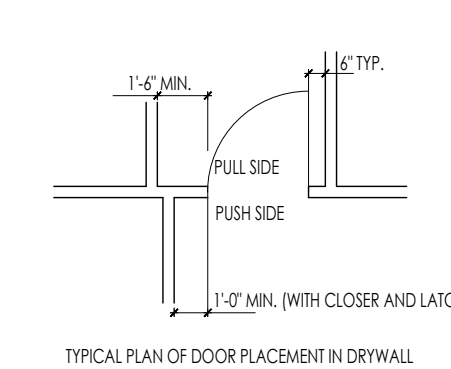
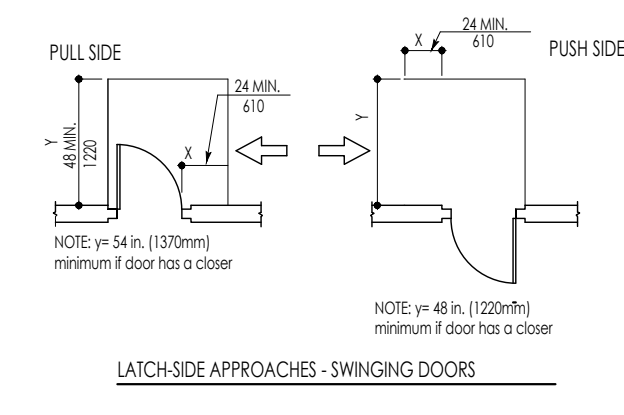
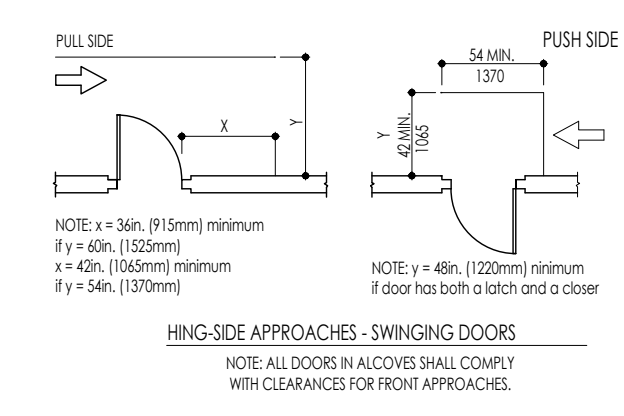
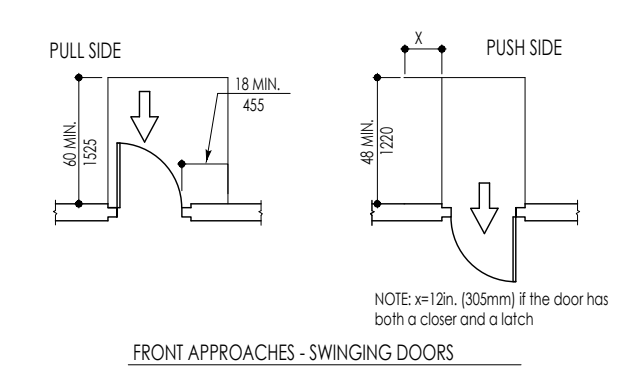
- A. 3 HOLE, 4-INCH CENTERS, VITREOUS CHINA: WALL HUNG LAVATORY, CAST GRID DRAIN, 1-1/4" TAIL PIECE, P-TRAP, FLEXIBLE SUPPLIES WITH WALL FLANGES AND LOOSE KEY STOPS, J.R. SMITH 700 CARRIER, FAUCET: 0.5 GPM @ 60 PSI, ADA/GC CONTROLS, POLISHED CHROME, BELOW DECK THERMOSTATIC MIXING VALVE (110F MAX SET POINT) - LEONARD 108 SERIES: INSULATION KIT, TRUEBRO 102, CW: 1/2" HW: 3/4" DRAIN: 1-1/4"
- B. CADET 1.6 GAL FLUSH, VITREOUS CHINA, ELONGATED BOWL (17-INCH), CHURCH #9500C SEAT, FLOOR MOUNTED, CW: 1" DRAIN: 4"
- C. PER SECTION 6 ANSI A117.1-2009, 48" MAX AFF TO OPERABLE PARTS OF TOWEL DISPENSERS/HAND DRYERS AND 9" MAX. FROM EDGE OF TOILET TO C/ OF TOILET PAPER DISPENSER.

GENERAL NOTES

- A. GC TO PROVIDE WALL BLOCKING FOR ALL WALL MOUNTED EQUIPMENT/ SHELVING/TOILET ACCESSORIES.
- B. PER 2015 NATIONAL STANDARD PLUMBING CODE, SECTION 10.15.6 (C), ALL PUBLIC-USE HAND WASHING FACILITIES: WATER DISCHARGED FROM PUBLIC-USE HAND WASHING FACILITIES SHALL BE LIMITED TO A TEMPERATURE NO HIGHER THAN 110 DEGREES (F) USING A WATER TEMPERATURE LIMITING DEVICE COMPLYING WITH ASSE 1070

ACCESSORY & FIXTURE LEGEND	
ITEM	MOUNTING HEIGHT
SD SOAP DISPENSER	COUNTER MOUNTED
GB GRAB BAR - 36" & 42"	33"-38" A.F.F.
LAV LAVATORY	34" A.F.F.
ND FEMININE NAPKIN DISPOSAL	34" A.F.F. TO TOP OF UNIT
M MIRROR	FULL HT. V.I.F. 40" A.F.F. MAX.
RTD RECESSED PAPER TOWEL DISPENSER & DISPOSAL	48" A.F.F. TO CL. OF UNIT
TD TISSUE DISPENSER	24" A.F.F.
TH TOWEL HOOK	48" A.F.F.
U URINAL	17" A.F.F.
GB-V GRAB BAR - 18" VERTICAL HANDICAP SIGNAGE	39" A.F.F.

BATHROOM SPECIFICATIONS:
TOILET ACCESSORIES NOTES:
 S.S. GRAB BAR 1-1/2" DIA. PROVIDE BLOCKING ON WALL TO ANCHOR GRAB BAR TO SIDE WALL WITH MIN. 250#LB SHEAR STRESS
 H/C TOILET WITH OPEN SEAT TOP OF SEAT TOILET FLUSHING VALVE TO BE ON OPEN SIDE PROVIDE H/C PLAQUE 3 FEET FROM LATCH SIDE OF DOOR
 WALL SWITCH MOUNTING HEIGHT 42 INCHES FROM FINISH FLOOR
 CHROME PLATED TOILET TISSUE DISPENSER VERTICALLY PROVIDE WASTE CONTAINER IN TOILET TYPICAL
 PROVIDE ELECTRIC HAND DRYER IN TOILET TYPICAL
 WALL HUNG SINK TO HAVE PIPE PROTECTION VIA "TRUEBRO" SYSTEM AND PROVIDE WRIST ACTION FAUCETS AS PER H/C SPEC.
 MAXIMUM ACCESSORY HEIGHT 48" ABOVE FINISH FLOOR
 NOTE: TOILET PAPER DISPENSER TO BE 7" TO 9" IN FRONT OF TOILET.



- NOTES:**
1. PROVIDE SIGNATURE @ EACH DOOR WHERE REQUIRED BY APPLICABLE BUILDING CODES AND STANDARDS.
 2. ALL SIGNATURE MUST BE ADHESIVE BACKED.
 3. ACTUAL ROOM NAMES & NUMBERS (WHERE APPLICABLE) MUST BE CONFIRMED BY OWNER PRIOR TO FABRICATION.
 4. ALL SIGNS MUST COMPLY WITH ADA STANDARDS, INCLUDING TYPE FACE, SIZE, MOUNTING HEIGHT, COLOR CONTRAST & MOUNTING LOCATION.
 5. ARCHITECT OR OWNER'S REP. TO SELECT COLORS.
 6. SIGNS TO BE FABRICATED FROM ABS PLASTIC.

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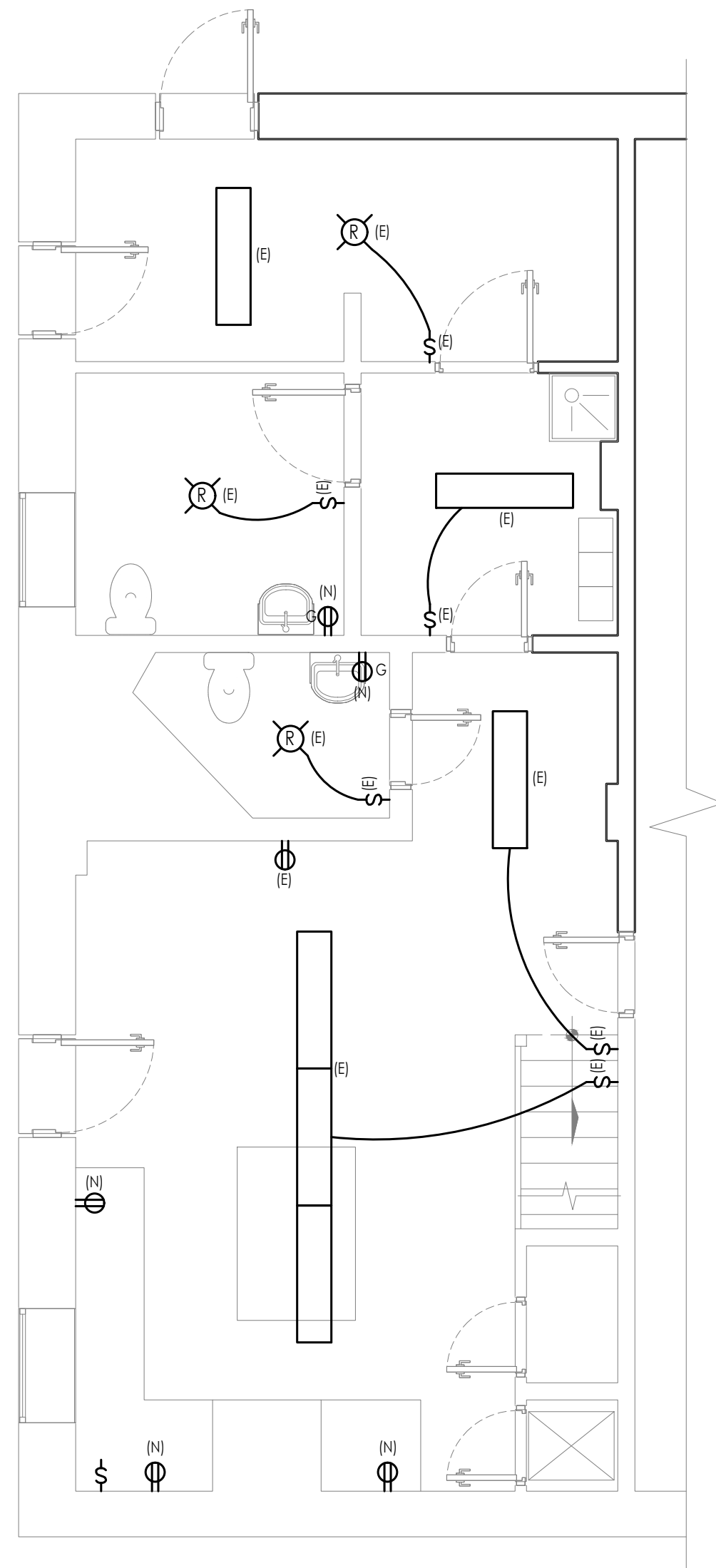
PROJECT NAME AND ADDRESS

RESTAURANT AND BED & BREAKFAST RENOVATION
 1 CLUBHOUSE RD,
 BROWNS MILLS, NJ

Revision/Issue
 ISSUED FOR PERMIT:
 02-23-2025
 02-06-2025

DATE: 02-23-2025
 DRAWN BY: GCV
 JOB NUMBER: 100-23
 TITLE: NOTES

SHEET NUMBER:
A-6



1 BASEMENT FLOOR ELECTRICAL PLAN
 1/4" = 1'-0"

ELECTRICAL/ MECHANICAL LEGEND

	LIGHT SWITCH
	3-WAY LIGHT SWITCH
	4-WAY LIGHT SWITCH
	SINGLE 240VOLT WALL RECEPTACLE
	DUPLEX WALL RECEPTACLE
	DUPLEX GROUND FAULT CIRCUIT INTERRUPTER
	WEATHER PROOF WALL RECEPTACLE
	WALL MOUNTED INCAND. FIXTURE
	CEILING MOUNTED FAN WITH LIGHTS TO BE CENTERED IN ROOM
	CEILING MOUNTED INTERCONNECTED SMOKE DETECTOR WITH BATTERY BACK-UP
	SMOKE DETECTOR & CARBON MONOXIDE DETECTOR COMBINATION UNIT
	RECESSED CEILING FAN DUCTED TO THE EXTERIOR
	RECESSED CEILING FAN WITH LIGHT DUCTED TO THE EXTERIOR
	ELECTRIC PANEL
	CABLE WALL RECEPTACLE
	OUTDOOR RATED CAMERA
	ETHERNET WALL RECEPTACLE
	REPLACE BY NEW LIGHT MODEL SELECTED BY THE OWNER
	EXISTING ITEM
	NEW ITEM

NOTE: ARC FAULT PROTECTION FOR ALL NEW ELECTRICAL CIRCUITS.

		BTUH
FURNACE	ADDITIONAL	90,000
WATER HEATER		36,000
FURNACE	ADDITIONAL	90,000
WATER HEATER		36,000
FURNACE	ADDITIONAL	90,000
WATER HEATER		36,000
FURNACE	ADDITIONAL	90,000
WATER HEATER		36,000
NOTE: IFGC 2020		504,000
LONGEST PIPE METHOD		

1. ALL NEW GAS PIPING TO HEATERS TO BE FLEX PIPE.
 2. SEE DETAIL FOR FLOOR/ WALL PENETRATIONS.
 3. PROJECT DOES NOT REQUIRE CORROSION PROTECTION.
 4. NO PVC GAS PIPE TO BE USED.
 5. REGULATORS ARE SUPPLIED WITH ALL EQUIPMENT.
 6. WATER HEATERS MUST BE NO CLOSER THAN 2" FROM WALLS.
 7. NO GAS PIPE TO BE BURIED.

NOTES

- ALL SMOKE DETECTORS SHALL BE HARD-WIRED WITH BATTERY BACK-UP. NEW AND EXISTING SMOKE DETECTORS SHALL BE INTERCONNECTED.
- PROVIDE NEW INTERCONNECTED SMOKE DETECTORS AT ALL BEDROOM LOCATIONS, ONE PER LEVEL OUTSIDE OF LIVING/SLEEPING AREAS (HALLWAYS AT BEDROOMS), AND ONE AT THE BASEMENT LEVEL.
- UPGRADE EXISTING ELECTRICAL MAIN PANEL AS NEEDED.
- SEE SHEET F-1 FOR ADDITIONAL ELECTRICAL ITEMS.

RECEPTACLES

406.12 TAMPER-RESISTANT RECEPTACLES
 ALL 15- AND 20-AMPERE, 125- AND 250 VOLT NONLOCKING-TYPE RECEPTACLES IN THE AREAS SPECIFIED IN 406.12 (1) THROUGH (7) SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES.

- DWELLING UNITS IN ALL AREAS SPECIFIED IN 210.52 AND 550.13
- GUEST ROOMS AND GUEST SUITES OF HOTELS AND MOTELS
- CHILD CARE FACILITIES
- PRESCHOOLS AND ELEMENTARY EDUCATION FACILITIES
- BUSINESS OFFICES, CORRIDORS, WAITING ROOMS, AND THE LIKE IN CLINICS, MEDICAL AND DENTAL OFFICES AND OUTPATIENT FACILITIES
- SUBSET OF ASSEMBLY OCCUPANCIES DESCRIBED IN 518.2 TO INCLUDE PLACES OF WAITING TRANSPORTATION, GYMNASIUMS, SKATING RINKS, AND AUDITORIUMS (7) DORMITORIES

ELECTRICAL

- ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODES.
- THIS DRAWING IS FOR LOCATION AND COORDINATION OF LIGHT FIXTURES AND DEVICES. COMPLIANCE WITH ALL APPLICABLE CODES AND REGULATIONS REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.
- COORDINATE ALL LIGHT SPECIFICATIONS AND LOCATIONS WITH OWNER.
- INSTALL NEW SWITCHES AS REQUIRED TO ACHIEVE SWITCHING CONTROL DEPICTING ON THESE DRAWINGS.
- CONTRACTOR SHALL ENSURE THAT AT COMPLETION OF WORK ALL LIGHT FIXTURES ARE IN WORKING CONDITION WITH OPERABLE LAMPS.
- CONTRACTOR SHALL COORDINATE ELECTRICAL WIRES AND ITEMS WITH HVAC DUCTS, PLUMBING PIPING, JOISTS, RAFTERS, AND STRUCTURAL MEMBERS.
- PANEL LOADS SHALL BE BALANCED.
- HEIGHTS ARE FROM FINISH FLOOR TO CENTERLINE OF DEVICE.
- ALL DEVICES SHALL BE "UL LISTED" WITH GROUNDS WHITE.
- PANEL SHALL BE GROUNDED.
- ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT AND PROVIDE WIRING AND CONDUIT SIZES.

BRANCH CIRCUITS

210.8 GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL

GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL SHALL BE PROVIDED AS REQUIRED IN 210.8 (A) THROUGH (E), THE GROUND-FAULT CIRCUIT INTERRUPTER SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION.

(A) DWELLING UNITS. ALL 120-VOLT, SINGLE PHASE, 15- AND 20-AMPERE RECEPTACLES INSTALLED IN THE LOCATION SPECIFIED IN 210.8 (A) (1) THROUGH (10) SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL.

- BATHROOMS
- GARAGES, AND ALSO ACCESSORY BUILDINGS THAT HAVE A FLOOR LOCATED AT OR BELOW GRADE LEVEL, NOT INTENDED AS HABITABLE ROOMS AND LIMITED TO STORAGE AREAS, WORK AREAS, AND AREAS OF SIMILAR USE
- OUTDOORS
- CRAWL SPACES AT OR BELOW GRADE LEVEL
- UNFINISHED PORTIONS OR AREAS OF THE BASEMENT NOT INTENDED AS HABITABLE ROOMS (6) KITCHENS-WHERE THE RECEPTACLES ARE INSTALLED TO SERVE THE COUNTERTOP SURFACES (7) SINKS-WHERE RECEPTACLES ARE INSTALLED WITHIN 1.8 M (6 FT) FROM THE TOP INSIDE EDGE OF THE BOWL OF THE SINK
- BATHHOUSES
- BATHTUBS OR SHOWER STALLS-WHERE RECEPTACLES ARE INSTALLED WITHIN 1.8 M (6 FT) OF THE OUTSIDE EDGE OF THE BATHTUB OR SHOWER STALL
- LAUNDRY AREAS

210.12 ARC-FAULT CIRCUIT-INTERRUPTER PROTECTION

ARC-FAULT CIRCUIT-INTERRUPTER PROTECTION SHALL BE PROVIDED AS REQUIRED IN 210.12 (A), (B), AND (C), THE ARC-FAULT CIRCUIT INTERRUPTER SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION.

(A) DWELLING UNITS. ALL 120-VOLT, SINGLE PHASE, 15- AND 20-AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY ANY MEANS DESCRIBED IN 210.12 (A) (1) THROUGH (6).

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CONSULTANT

PROJECT NAME AND ADDRESS:

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 BED & BREAKFAST RENOVATION
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Revision/Issue

ISSUED FOR PERMIT:

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DRAWN BY: GCV

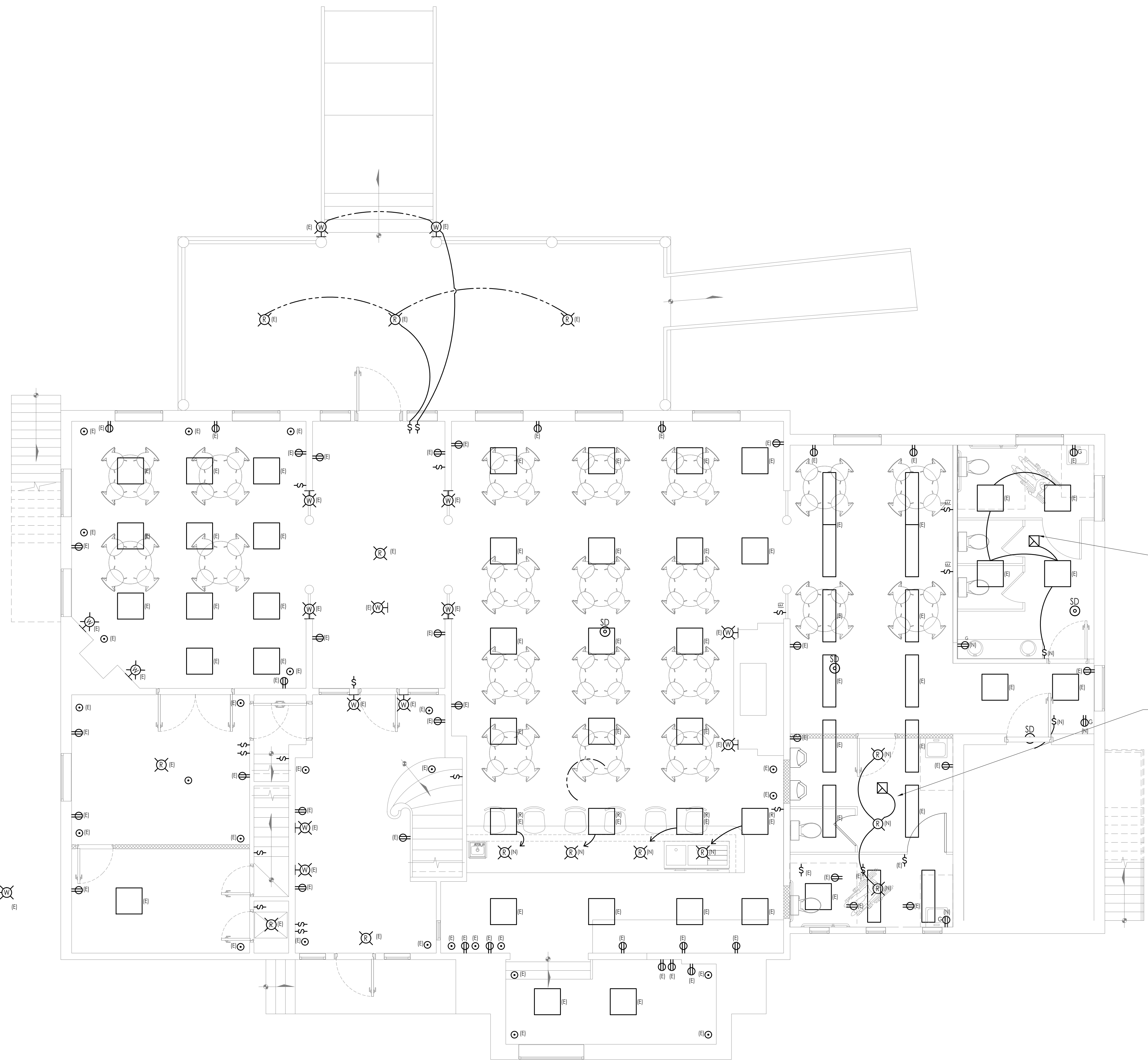
JOB NUMBER: 100-23

TITLE:

ELECTRICAL PLANS AND NOTES

SHEET NUMBER:

E-1



ELECTRICAL / MECHANICAL LEGEND

	LIGHT SWITCH
	3-WAY LIGHT SWITCH
	4-WAY LIGHT SWITCH
	SINGLE 240VOLT WALL RECEPTACLE
	DUPLEX WALL RECEPTACLE
	DUPLEX GROUND FAULT CIRCUIT INTERRUPTER
	WEATHER PROOF WALL RECEPTACLE
	WALL MOUNTED INCAND. FIXTURE
	CEILING MOUNTED FAN WITH LIGHTS TO BE CENTERED IN ROOM
	LOW VOLTAGE SMOKE DETECTOR WITH BATTERY BACK-UP
	110 VOLT INTERCONNECTED HARDWIRED SMOKE DETECTOR WITH BATTERY BACK-UP
	SMOKE DETECTOR & CARBON MONOXIDE DETECTOR COMBINATION UNIT
	RECESSED CEILING FAN DUCTED TO THE EXTERIOR
	RECESSED CEILING FAN WITH LIGHT DUCTED TO THE EXTERIOR
	ELECTRIC PANEL
	CABLE WALL RECEPTACLE
	OUTDOOR RATED CAMERA
	ETHERNET WALL RECEPTACLE
	REPLACE BY NEW LIGHT MODEL SELECTED BY THE OWNER
	EXISTING ITEM
	NEW ITEM

NOTE: ARC FAULT PROTECTION FOR ALL NEW ELECTRICAL CIRCUITS.

EXHAUST FAN TO BE DIRECT VENTED TO OUTSIDE. FACTORY-MADE DUCT TO BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. EACH PORTION OF THE DUCT SYSTEM SHALL BEAR A LISTING AND LABEL INDICATING COMPLIANCE WITH UL 181 AND UL 181A OR UL181B.

60 CFM EXHAUST FAN VENTED DIRECTLY TO THE OUTSIDE WITH 3" GALVANIZED DUCT (NON-COMBUSTIBLE).

EXHAUST FAN TO BE DIRECT VENTED TO OUTSIDE. FACTORY-MADE DUCT TO BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. EACH PORTION OF THE DUCT SYSTEM SHALL BEAR A LISTING AND LABEL INDICATING COMPLIANCE WITH UL 181 AND UL 181A OR UL181B.

60 CFM EXHAUST FAN VENTED DIRECTLY TO THE OUTSIDE WITH 3" GALVANIZED DUCT (NON-COMBUSTIBLE).

1 FIRST FLOOR ELECTRICAL PLAN
1/4" = 1'-0"

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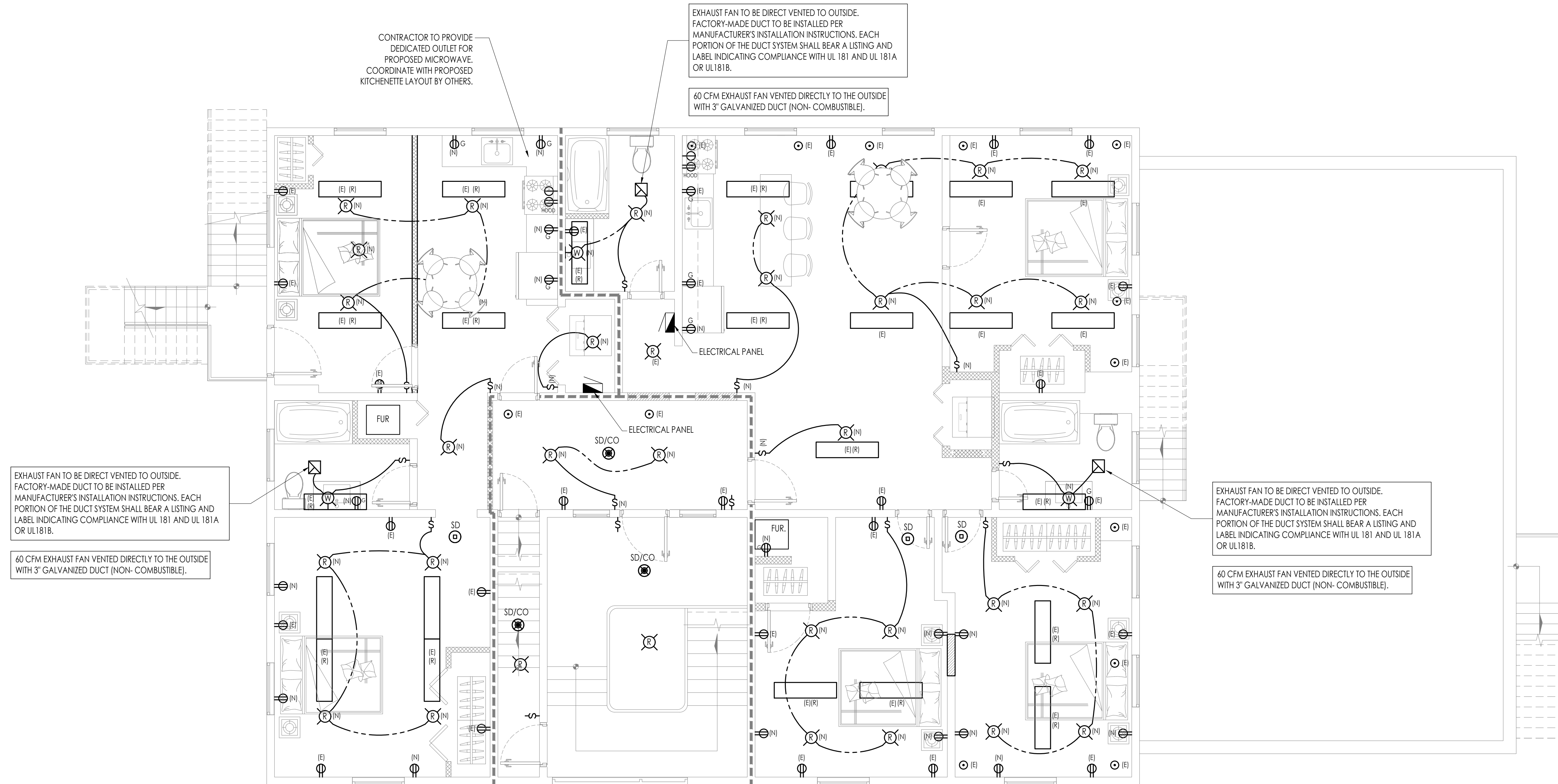
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DATE:	02-23-2025
DRAWN BY:	GCV
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SHEET NUMBER:
E-2

REGISTERED PROFESSIONAL ARCHITECT



ELECTRICAL/ MECHANICAL LEGEND

	LIGHT SWITCH
	3-WAY LIGHT SWITCH
	4-WAY LIGHT SWITCH
	SINGLE 240VOLT WALL RECEPTACLE
	DUPLEX WALL RECEPTACLE
	DUPLEX GROUND FAULT CIRCUIT INTERRUPTER
	WEATHER PROOF WALL RECEPTACLE
	WALL MOUNTED INCAND. FIXTURE
	CEILING MOUNTED FAN WITH LIGHTS TO BE CENTERED IN ROOM
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	RECESSED CEILING FAN WITH LIGHT DUCTED TO THE EXTERIOR
	ELECTRIC PANEL
	CABLE WALL RECEPTACLE
	OUTDOOR RATED CAMERA
	ETHERNET WALL RECEPTACLE
	REPLACE BY NEW LIGHT MODEL SELECTED BY THE OWNER
	EXISTING ITEM
	NEW ITEM
NOTE: ARC FAULT PROTECTION FOR ALL NEW ELECTRICAL CIRCUITS.	

1 SECOND FLOOR ELECTRICAL PLAN
 1/4" = 1'-0"

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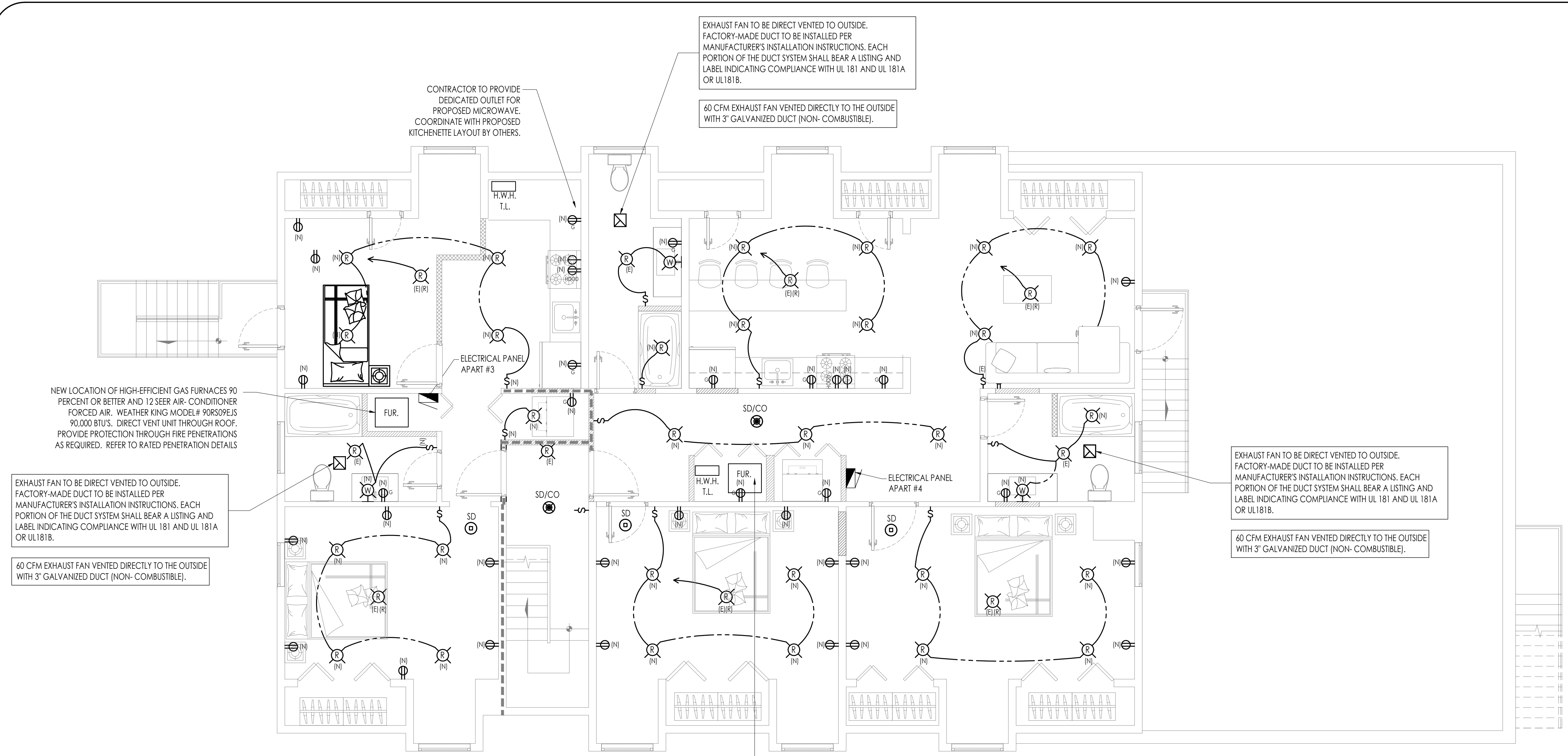
JOB NUMBER: 100-23

TITLE:

ELECTRICAL PLANS AND NOTES

SHEET NUMBER:

E-3

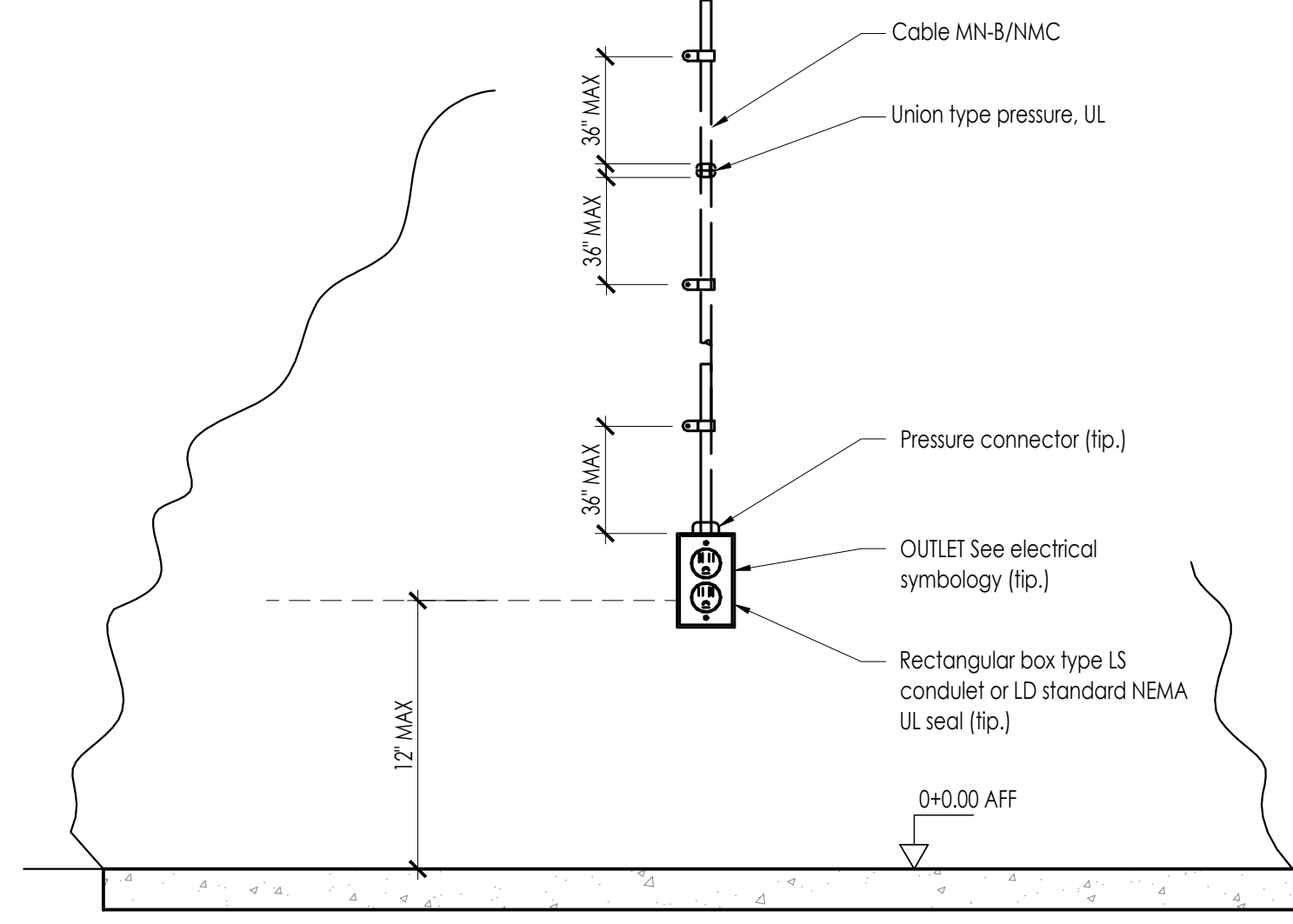


ELECTRICAL/ MECHANICAL LEGEND

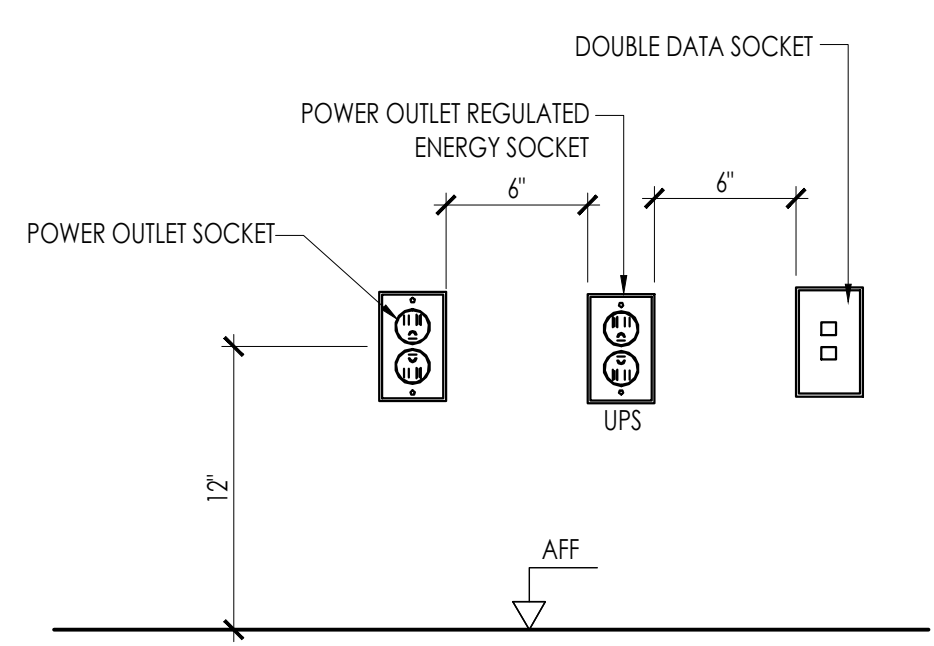
	LIGHT SWITCH
	3-WAY LIGHT SWITCH
	4-WAY LIGHT SWITCH
	SINGLE 240VOLT WALL RECEPTACLE
	DUPLEX WALL RECEPTACLE
	DUPLEX GROUND FAULT CIRCUIT INTERRUPTER
	WEATHER PROOF WALL RECEPTACLE
	WALL MOUNTED INCAND. FIXTURE
	CEILING MOUNTED FAN WITH LIGHTS TO BE CENTERED IN ROOM
	CEILING MOUNTED INTERCONNECTED SMOKE DETECTOR WITH BATTERY BACK-UP
	SMOKE DETECTOR & CARBON MONOXIDE DETECTOR COMBINATION UNIT
	RECESSED CEILING FAN DUCTED TO THE EXTERIOR
	RECESSED CEILING FAN WITH LIGHT DUCTED TO THE EXTERIOR
	ELECTRIC PANEL
	CABLE WALL RECEPTACLE
	OUTDOOR RATED CAMERA
	ETHERNET WALL RECEPTACLE
	REPLACE BY NEW LIGHT MODEL SELECTED BY THE OWNER
	EXISTING ITEM
	NEW ITEM

NOTE: ARC FAULT PROTECTION FOR ALL NEW ELECTRICAL CIRCUITS.

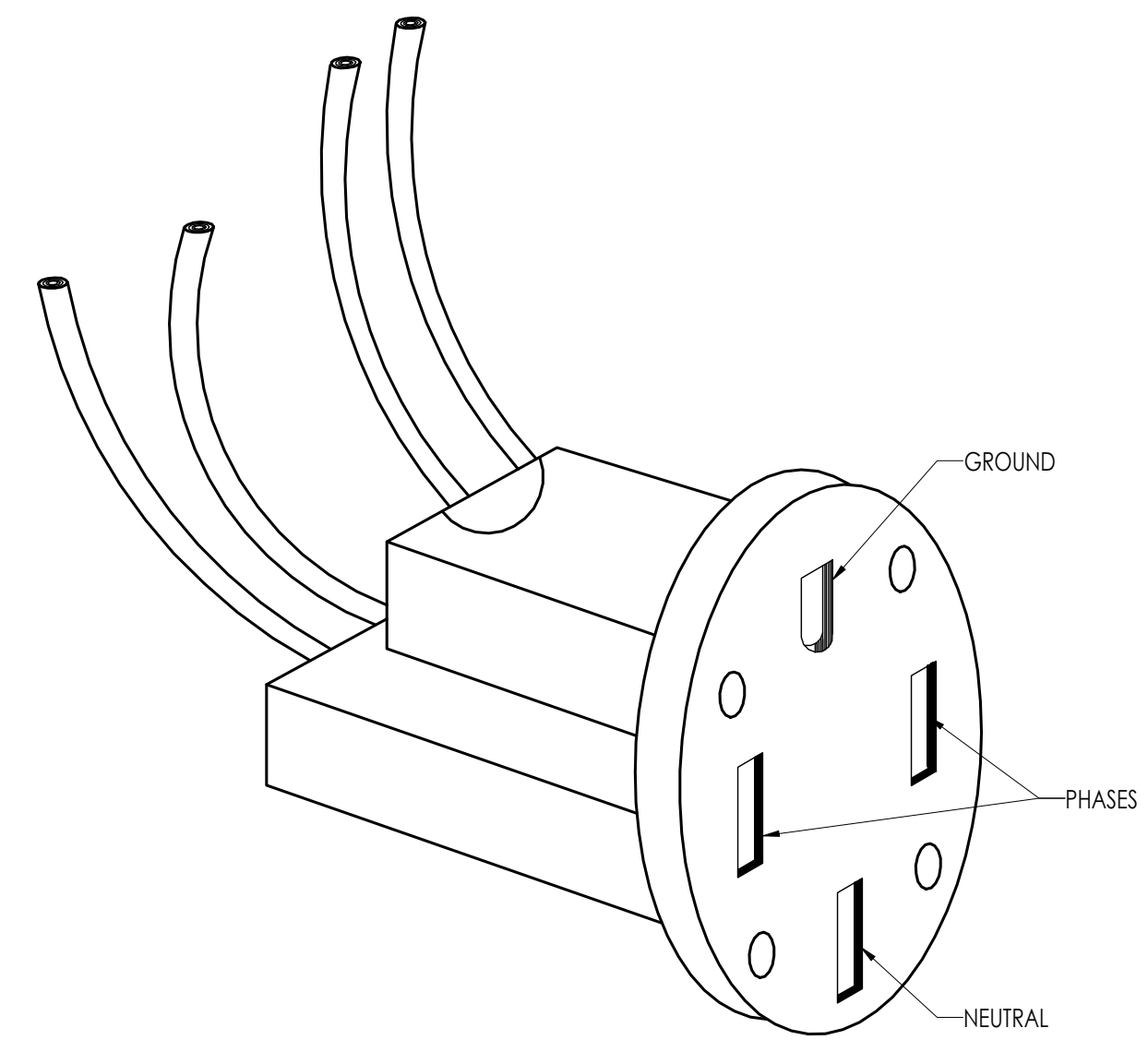
1 THIRD FLOOR ELECTRICAL PLAN
1/2" = 1'-0"



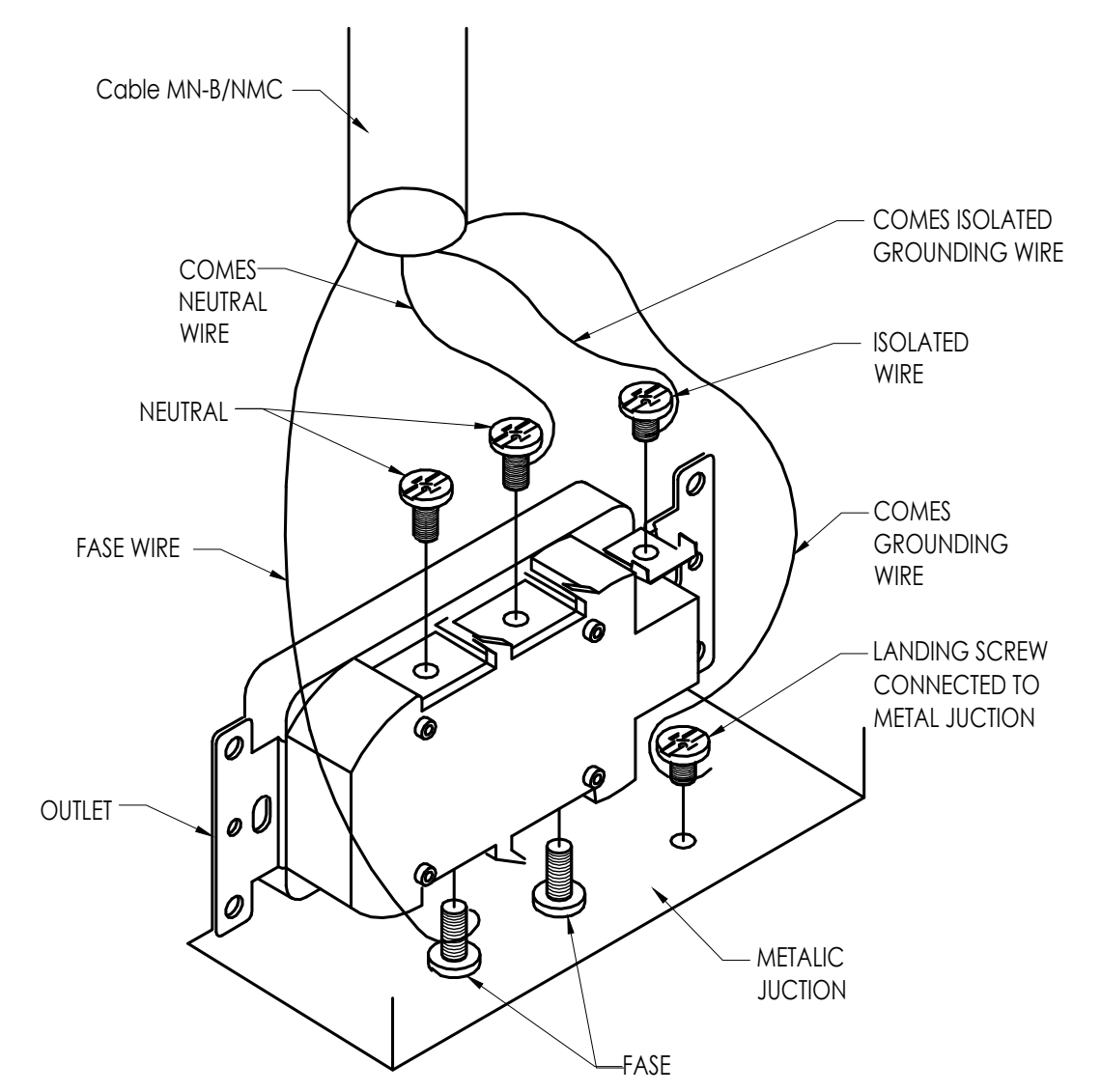
EP- DOUBLE OUTLET BUILT-IN



EP- SEPARATION BETWEEN RECEPTACLES FOR OFFICES



EP- SPECIAL POWER OUTLET 250V



RECEPTACLE ISOLATED CONNECTION

2 ELECTRICAL DETAILS
N.T.S.

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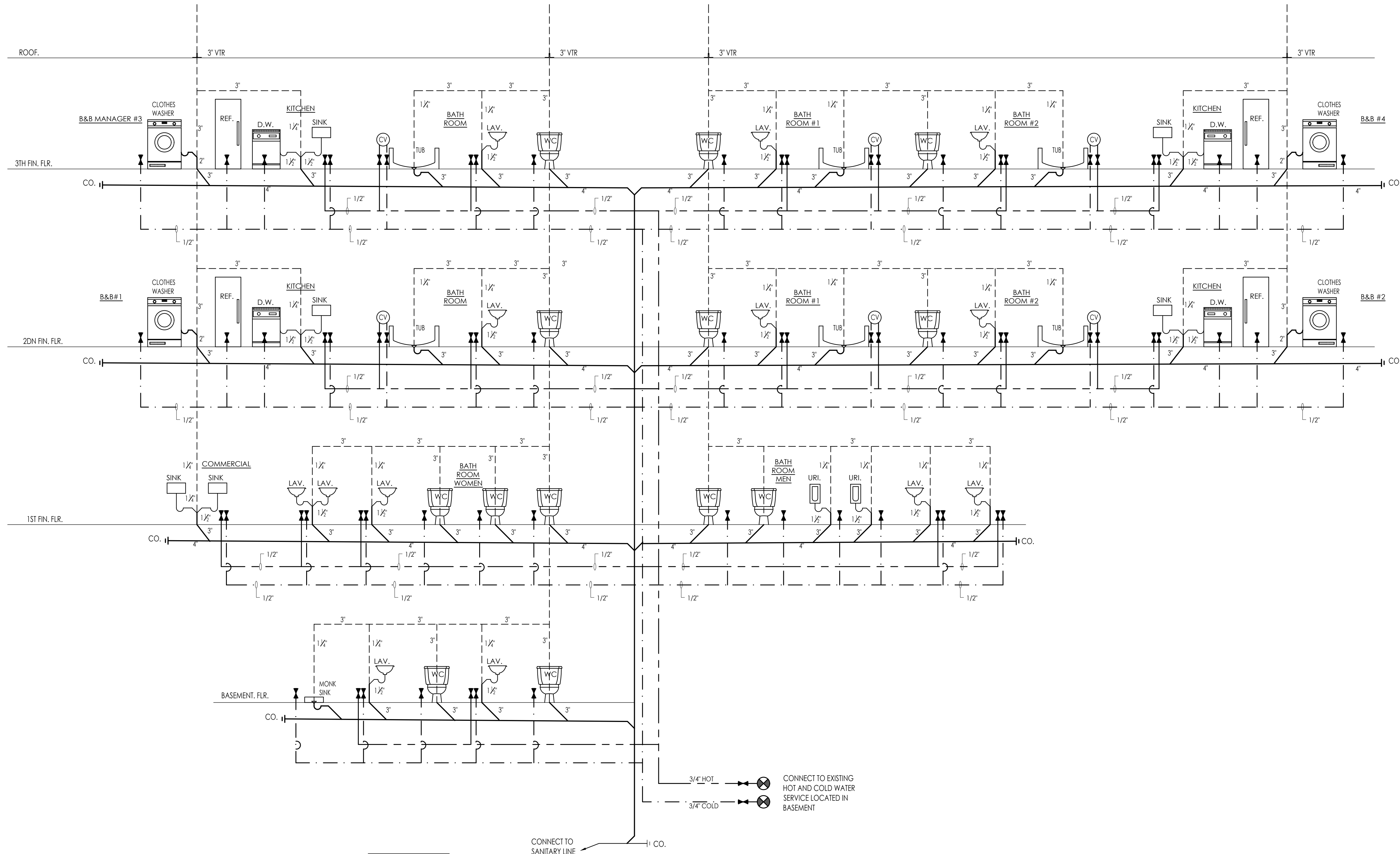
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E-3

SIGN & SEAL N.J.C. 7-441 ARCHITECT



LEGEND	
	HOT WATER SUPPLY
	COLD WATER SUPPLY
	WASTE PIPE
	VENT PIPE
	COMPENSATING VALVE
	SHUT-OFF VALVE
	CONNECT TO EXISTING
	NEW

- PLUMBING**
- ALL WORK SHALL COMPLY WITH CURRENT STATE AND LOCAL CODES.
 - THIS DRAWING IS FOR LOCATION AND COORDINATION OF PLUMBING FIXTURES AND DEVICES. COMPLIANCE WITH ALL APPLICABLE CODES AND REGULATIONS REMAINS THE RESPONSIBILITY OF THE CONTRACTOR.
 - PLUMBING CONTRACTOR SHALL VERIFY ALL APPLIANCES AND FIXTURES AND THEIR REQUIREMENTS.
 - ALL STACK, VENT AND EXHAUST PENETRATIONS SHALL BE ON REAR FACING SLOPES AND POSITIONED TO ELIMINATE BEING SEEN FROM THE STREET.
 - COORDINATE EXACT LOCATION OF PUBLIC WATER AND SEWER WITH UTILITY MARKOUT.
 - COORDINATE EXACT LOCATION OF NATURAL GAS SERVICE WITH UTILITY MARKOUT.
 - COORDINATE PIPING WITH FLOOR JOISTS TO REDUCE THE NUMBER OF PENETRATIONS THRU JOISTS.
 - MATERIALS FOR POTABLE WATER SHALL BE COPPER WATER TUBE TYPE M (ASTM B88), PEX-AL-PEX COMPOSITE PRESSURE PIPE (ASTM F1281) OR OTHER APPROVED MATERIAL.
 - MATERIALS FOR SANITARY WASTE AND DRAIN SHALL BE ABS PIPE AND FITTINGS SCHEDULE 40 DWV (ASTM D2661), PVC PIPE AND FITTINGS DWV OR OTHER APPROVED MATERIAL.
 - MATERIALS FOR VENT PIPING SHALL BE ABS PIPE AND FITTINGS SCHEDULE 40 DWV (ASTM D2661), PVC PIPE AND FITTINGS DWV OR OTHER APPROVED MATERIAL.
 - ALL SUPPLY LINES SHALL BE 1/2" UNLESS OTHERWISE NOTED.
 - ALL BRANCH LINES SHALL BE 3/4" UNLESS OTHERWISE NOTED.
 - UPSIZE MAIN WATER SUPPLY BRANCH LINES AS NEEDED TO ACCOMMODATE NEW PLUMBING.

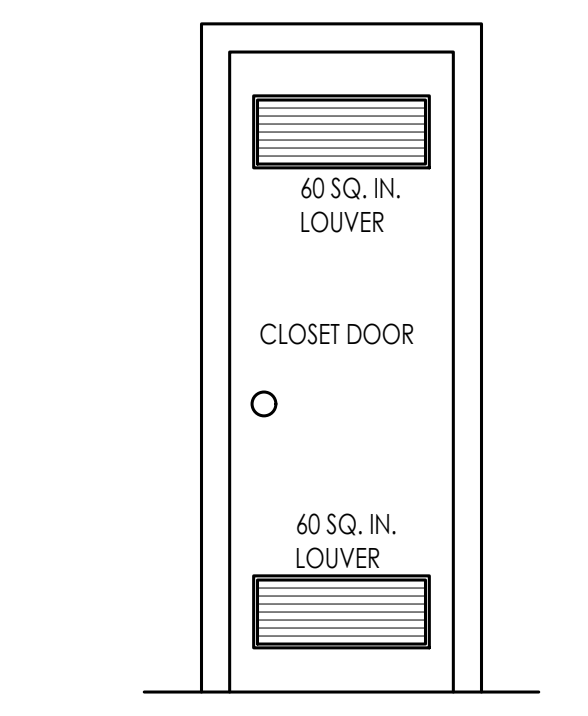
WATER SUPPLY FIXTURE UNITS (SIZED USING TABLE B.5.3)	TOTAL WSFU
3 BATHROOM GROUPS	5.5
ONE (1) KITCHEN GROUP WITH SINK AND DISHWASHER	1.5
ONE (1) LAUNDRY GROUP W/ SINK AND CLOTHES WASHER	3.0
TOTAL WSFU	10

10 WSFU = 8 GPM
8 GPM REQUIREMENTS

- 1" TYPE K COPPER WATER SERVICE AT 8 FPS VELOCITY
- 1" CPVC, PVC, ABS, PE PLASTIC WATER SERVICE AT 8 FPS VELOCITY
- 1" PEX & PE-RT PLASTIC WATER SERVICE AT 8 FPS VELOCITY

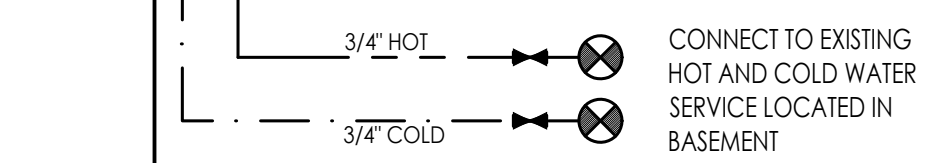
- NOTES**
- HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION OF SHOP DRAWINGS INDICATING ALL EXISTING AND NEW EQUIPMENT, DUCTWORK AND SIZES. RETURN AND SUPPLY OUTLETS WITH CFM EACH. SHOP DRAWINGS SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT FOR APPROVALS.
 - CEILING EXHAUST FAN AND COMBO UNIT LIGHT/EXHAUST FANS ARE TO BE DUCTED TO THE EXTERIOR WITH 4" RIGID METAL DUCT.

1 PLUMBING RISER DIAGRAM
N.T.S.



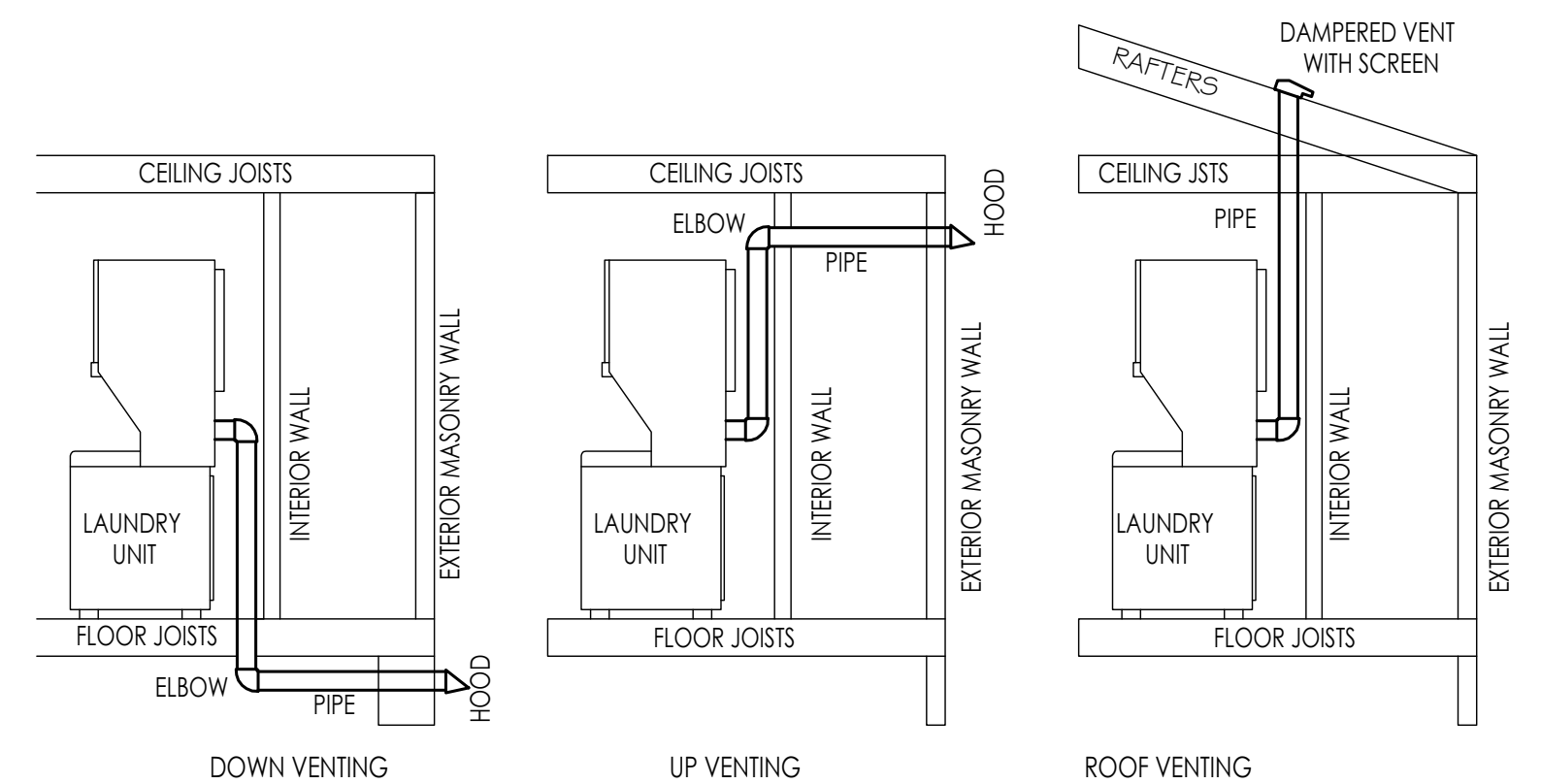
A MINIMUM OF 120 SQUARE INCHES OF OPENING, EQUALLY DIVIDED AT THE TOP AND BOTTOM OF THE DOOR, IS REQUIRED. AIR OPENINGS ARE REQUIRED TO BE UNOBSTRUCTED WHEN A DOOR IS INSTALLED. A LOUVERED DOOR WITH EQUIVALENT AIR OPENINGS FOR THE FULL LENGTH OF THE DOOR IS ACCEPTABLE.

3 DETAIL @ DOOR
N.T.S.



FORM A "U" SHAPE ON THE END OF THE DRAIN HOSE WITH THE HOSE POINTED TOWARD THE DRAIN. PLACE THE FORMED END IN A LAUNDRY TUB OR A STANDPIPE AND SECURE WITH A CABLE TIE PROVIDED IN THE ENCLOSURE PACKAGE. WATER WILL SIPHON FROM THE WASHER IF THE ABOVE INSTRUCTIONS ARE NOT FOLLOWED.

4 DETAIL @ DRAIN HOSE
N.T.S.



5 DETAIL @ VENTING
N.T.S.

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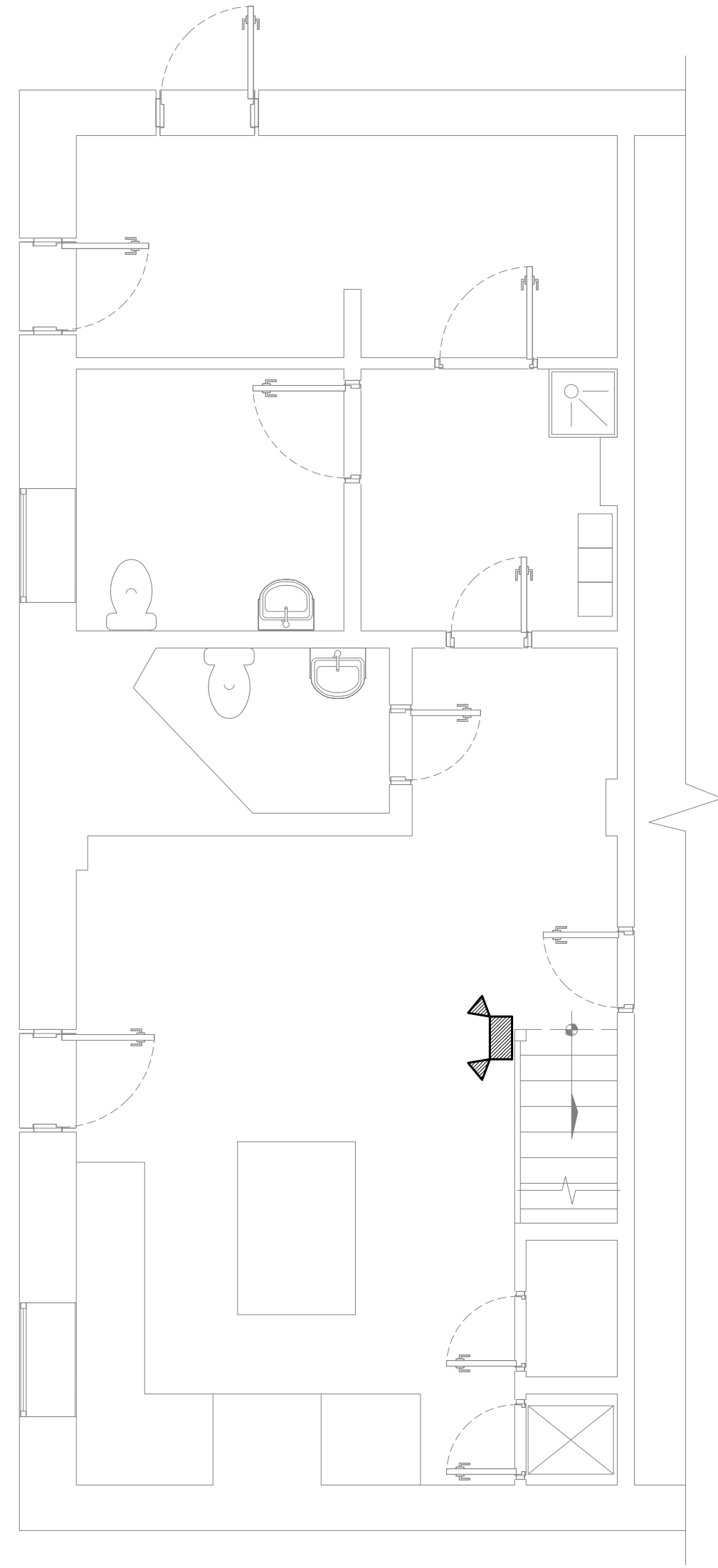
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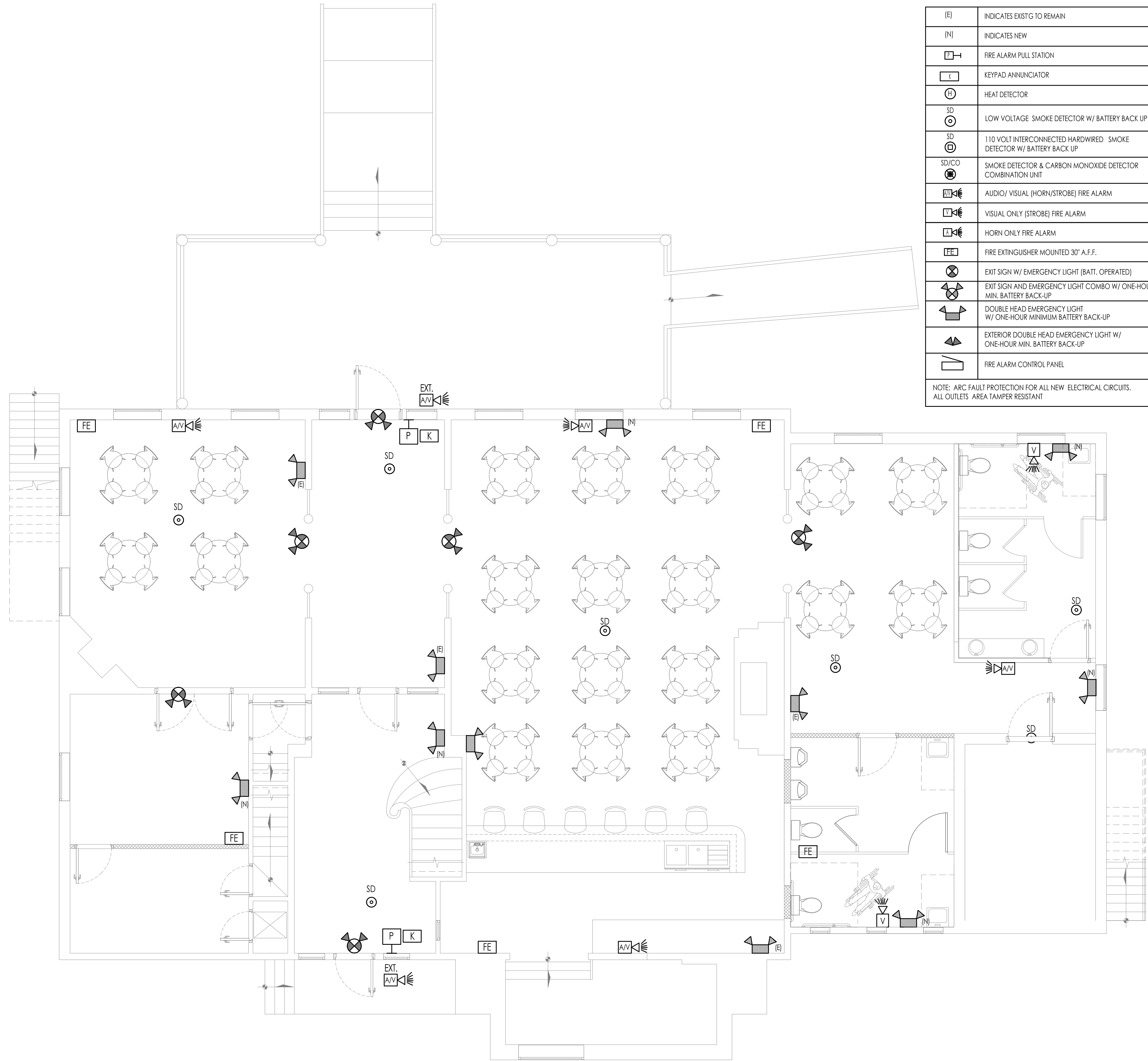
Revision/Issue	ISSUED FOR PERMIT:
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	02-06-2025
DATE:	02-23-2025
DRAWN BY:	GCV
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SHEET NUMBER

P-1



1 BASEMENT FIRE ALARM PLAN
1/8" = 1'-0"



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

LEGEND

(E)	INDICATES EXISTG TO REMAIN
(N)	INDICATES NEW
[Square with P]	FIRE ALARM PULL STATION
[Square with K]	KEYPAD ANNUNCIATOR
[Circle with H]	HEAT DETECTOR
[Circle with SB]	LOW VOLTAGE SMOKE DETECTOR W/ BATTERY BACK UP
[Circle with SD]	110 VOLT INTERCONNECTED HARDWIRED SMOKE DETECTOR W/ BATTERY BACK UP
[Circle with SD/CO]	SMOKE DETECTOR & CARBON MONOXIDE DETECTOR COMBINATION UNIT
[Square with AV]	AUDIO/ VISUAL (HORN/STROBE) FIRE ALARM
[Square with V]	VISUAL ONLY (STROBE) FIRE ALARM
[Square with H]	HORN ONLY FIRE ALARM
[Square with FE]	FIRE EXTINGUISHER MOUNTED 30" A.F.F.
[Circle with X]	EXIT SIGN W/ EMERGENCY LIGHT (BATT. OPERATED)
[Circle with X and arrow]	EXIT SIGN AND EMERGENCY LIGHT COMBO W/ ONE-HOUR MIN. BATTERY BACK-UP
[Circle with double arrow]	DOUBLE HEAD EMERGENCY LIGHT W/ ONE-HOUR MINIMUM BATTERY BACK-UP
[Circle with double arrow and arrow]	EXTERIOR DOUBLE HEAD EMERGENCY LIGHT W/ ONE-HOUR MIN. BATTERY BACK-UP
[Square with P]	FIRE ALARM CONTROL PANEL

NOTE: ARC FAULT PROTECTION FOR ALL NEW ELECTRICAL CIRCUITS.
ALL OUTLETS AREA TAMPER RESISTANT

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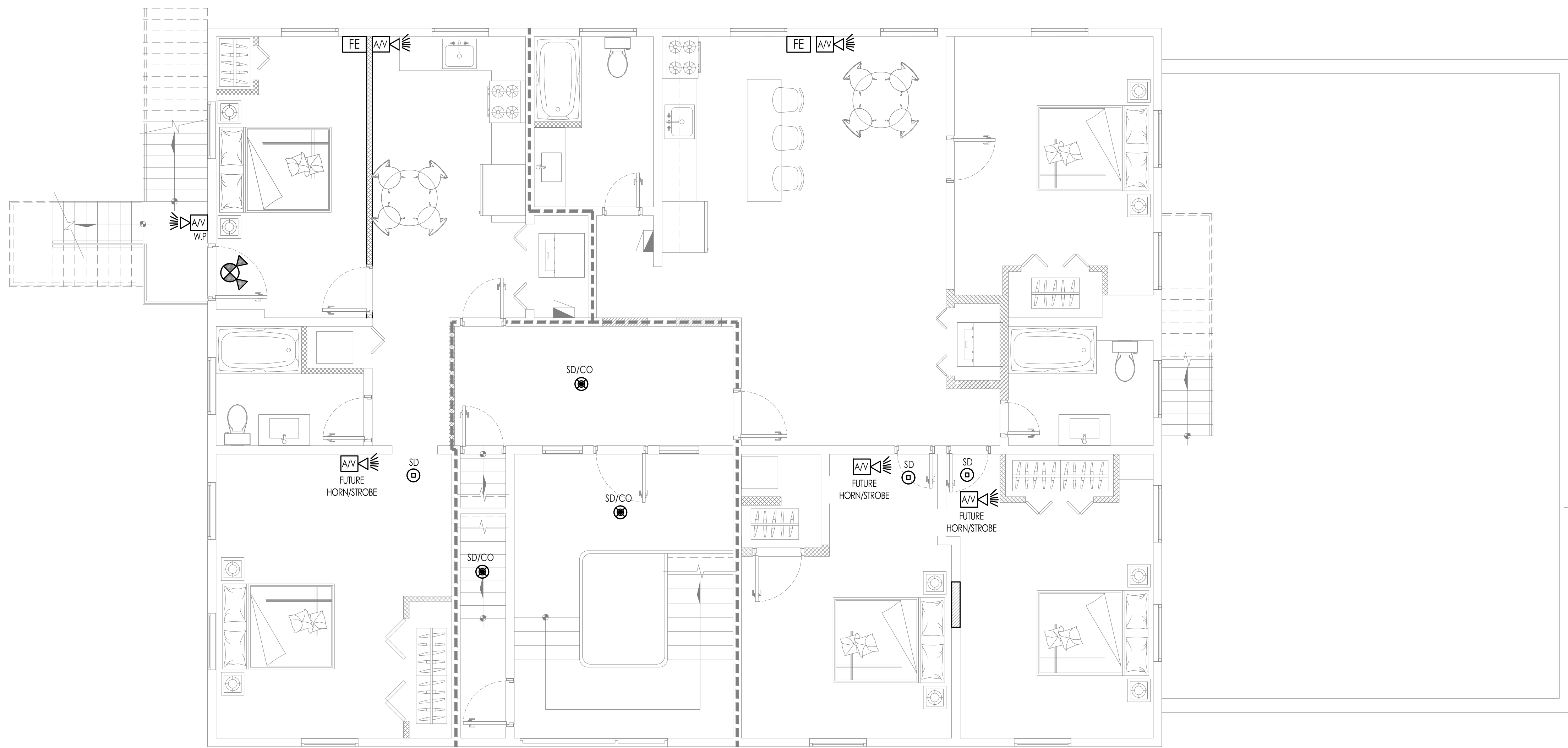
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F-1



1 SECOND FLOOR FIRE ALARM PLAN
 1/2" = 1'-0"

LEGEND

(E)	INDICATES EXISTG TO REMAIN
(N)	INDICATES NEW
[Symbol]	FIRE ALARM PULL STATION
[Symbol]	KEYPAD ANNUNCIATOR
[Symbol]	HEAT DETECTOR
SD	LOW VOLTAGE SMOKE DETECTOR W/ BATTERY BACK UP
SD	110 VOLT INTERCONNECTED HARDWIRED SMOKE DETECTOR W/ BATTERY BACK UP
SD/CO	SMOKE DETECTOR & CARBON MONOXIDE DETECTOR COMBINATION UNIT
[Symbol]	AUDIO/ VISUAL (HORN/STROBE) FIRE ALARM
[Symbol]	VISUAL ONLY (STROBE) FIRE ALARM
[Symbol]	HORN ONLY FIRE ALARM
[Symbol]	FIRE EXTINGUISHER MOUNTED 30" A.F.F.
[Symbol]	EXIT SIGN W/ EMERGENCY LIGHT (BATT. OPERATED)
[Symbol]	EXIT SIGN AND EMERGENCY LIGHT COMBO W/ ONE-HOUR MIN. BATTERY BACK-UP
[Symbol]	DOUBLE HEAD EMERGENCY LIGHT W/ ONE-HOUR MINIMUM BATTERY BACK-UP
[Symbol]	EXTERIOR DOUBLE HEAD EMERGENCY LIGHT W/ ONE-HOUR MIN. BATTERY BACK-UP
[Symbol]	FIRE ALARM CONTROL PANEL

NOTE: ARC FAULT PROTECTION FOR ALL NEW ELECTRICAL CIRCUITS. ALL OUTLETS AREA TAMPER RESISTANT

FIRE ALARM NOTES

1. FIRE ALARM CIRCUITS MUST BE INSTALLED IN AN ORDERLY AND PROFESSIONAL MANNER, APPROPRIATE AND APPROVED CONDUITS MUST BE USED SO THAT THE CABLE IS NOT DAMAGED DURING INSTALLATION OR NORMAL USE OF THE BUILDING. ALL OF THE ABOVE, COMPLYING WITH THE REQUIREMENTS OF ARTICLE 760.24 OF NEC 2023 (NFPA70).
2. THE ACCESSIBLE PART OF ABANDONED FIRE ALARM CABLES MUST BE REMOVED, IF THE CABLES ARE IDENTIFIED FOR FUTURE USE, THE LABEL MUST HAVE SUFFICIENT DURABILITY TO TOLERATE THE ENVIRONMENT IN WHICH IT IS LOCATED, AS STIPULATED IN ARTICLE 760.25 OF NEC 2020 (NFPA70).
3. FIRE ALARM CIRCUITS MUST BE IDENTIFIED AT THE TERMINATION AND JUNCTION LOCATIONS, SO AS TO HELP PREVENT UNINTENDED SIGNALS IN THE FIRE ALARM CIRCUIT DURING THE TESTING AND SERVICE OF THE OTHER SYSTEMS, ARTICLE 760.30 OF NEC 2020 (NFPA70).
4. THESE PLANS DO NOT INCLUDE THE DEFINITIVE ROUTE OF THE PIPES, THE CONTRACTOR MUST VERIFY ON SITE THE FINAL ROUTE OF THE PIPE TO BE INSTALLED TAKING INTO ACCOUNT THE POSSIBLE OBSTACLES AND MUST PRESENT DETAILED WORKSHOP PLANS OF PIPE ROUTES TO BE INSTALLED WITH PASSAGE BOXES, AS WELL AS OF THE PROPOSED DEVICES.
5. THE CONTRACTOR MUST INCLUDE LABELING FOR ALL DEVICES, PANELS, PIPES AND CABLES. THIS MUST BE INSTALLED ACCORDING TO THE PROGRESS OF THE PROJECT, NOT AT THE END OF IT.
6. THE PIPE TABLE MUST BE RESPECTED FOR THE PIPE DIAMETERS TO BE USED. IN TYPE A LOOPS, THE PIPES MUST BE 0.3M APART BETWEEN VERTICAL PIPES AND 1.22M BETWEEN HORIZONTAL PIPES.
7. IN AREAS WITH FINISHES THE PIPE MUST BE CONCEALED OR RECESSED. THE PIPE EXPOSED TO THE WEATHER MUST BE IMC TYPE AND THE DEVICES TO BE USED MUST BE RESISTANT, IN HAZARDOUS OR EXPLOSION-PROOF CLASSIFIED AREAS, DEVICES AND WIRING MUST BE APPROVED FOR THIS.
8. ALL MAIN PIPES, (AUDIO SIGNAL, 24VDC, NETWORK, CONTROL) MUST BE INSTALLED IN COMMON AREAS, FOR REVIEW OF FUTURE CONNECTIONS TO THE SYSTEM.
9. ALL PIPE MUST BE PROPERLY ATTACHED TO THE SECONDARY STRUCTURE, IT WILL BE ALLOWED TO SHARE PIPE SUPPORT WITH OTHER ELECTRICAL INSTALLATIONS AS LONG AS MAXIMUM SEPARATIONS OF SUPPORTS ARE RESPECTED FOR EACH TYPE OF CONDUIT, ACCORDING TO NEC (2020) NFPA70, IN GENERAL THEY ARE PLACED EVERY 3M. CONDUIT WITH UL SEAL AND PRESSURE CONNECTORS SHOULD BE USED UNLESS OTHERWISE INDICATED, EMT INDOORS, IMC OUTDOORS.
10. ALL PENETRATION INTO FIREPROOF WALLS, SLABS OR DUCTS MUST BE SEALED WITH APPROVED MATERIALS AND LISTED AS FIRE BARRIERS. WHEN PASSING A PIPELINE THROUGH A NEW OR EXISTING INTERN, IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO ENSURE THE PROTECTION REQUIRED BY CURRENT CODES.
11. THE SIGNALS FOR THE MONITORING MODULES MUST ALWAYS BE NORMALLY CLOSED, IN CASE THE WIRING IS OPENED THE SIGNAL MUST BE ACTIVATED.
12. THE WIRING OF THE FIRE ALARM SYSTEM MUST END AND START ON EACH DEVICE, IT IS NOT ALLOWED TO GO THROUGH A DEVICE WITHOUT CUTTING THE CABLE.
13. FOR EACH LEVEL AND BETWEEN EVERY 25 DEVICES IN THE SYSTEM, AN INSULATION MODULE OR THE MANUFACTURER'S INSTRUCTIONS MUST BE INCLUDED.
14. MANUAL STATIONS CAN BE INSTALLED BETWEEN A HEIGHT RANGE OF 1.07M AND 1.22M, BUT ALL MUST BE INSTALLED AT THE SAME HEIGHT. THEY MUST BE INSTALLED AT A MAXIMUM DISTANCE OF 1.5M FROM THE EXIT, IN DOOR ASSEMBLIES OF MORE THAN 12M ONE MUST BE INSTALLED ON EACH SIDE. THERE CAN BE NO MORE THAN 40M OF TRAVEL WITHOUT THERE BEING AT LEAST ONE MANUAL STATION.
15. EACH NOTIFICATION CIRCUIT THAT OPERATES WITH 24VDC MUST BE SUPERVISED THROUGH THE USE OF END-OF-LINE RELAYS WITH A MONITORING MODULE. THIS ALSO APPLIES TO AUDIBLE BASE CIRCUITS, NOTIFICATION CIRCUITS CONTROLLED BY CONTROL MODULES, DOOR MAGNETS, AMONG OTHERS.
16. ANY DEVICE INSTALLED OUTDOORS MUST BE LISTED TO OPERATE OUTDOORS, INCLUDING MANUAL STATIONS, NOTIFICATION DEVICES, AMONG OTHERS.

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SHEET NUMBER:
F-2

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