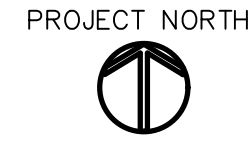
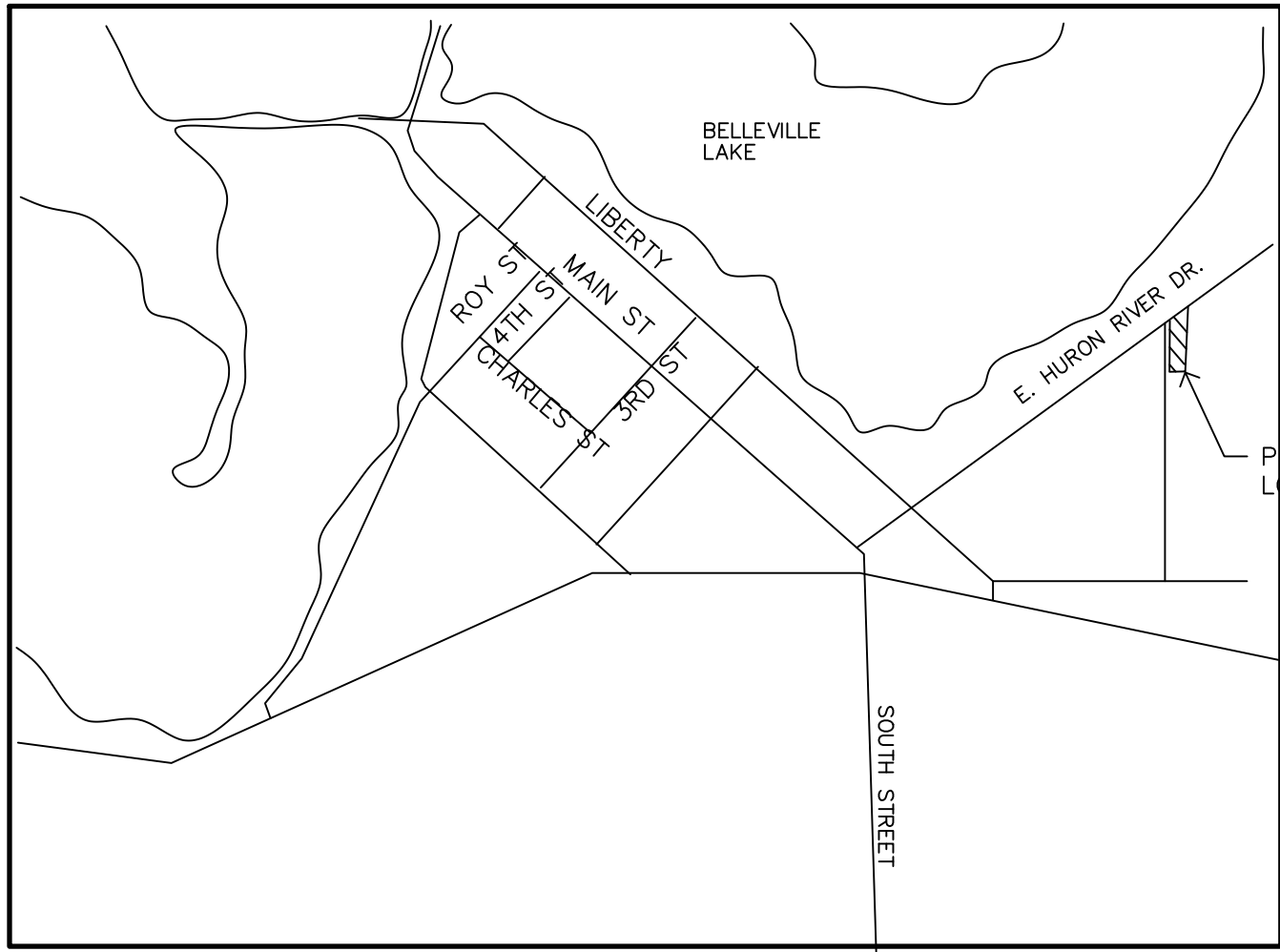


INTERIOR RENOVATIONS TO THE ANIMAL FRIENDS VETERINARY HOSPITAL 500 E HURON RIVER DRIVE, BELLEVILLE, MI 48111

ANIMAL FRIENDS VETERINARY HOSPITAL
INTERIOR RENOVATION
500 E. HURON RIVER DRIVE, BELLEVILLE, MI 48111

LOCATION MAP



ZONING ANALYSIS

CURRENT ZONING: B-3
ADJACENT ZONING TO THE NORTH: B-3
ADJACENT ZONING TO THE EAST: R-2
ADJACENT ZONING TO THE SOUTH: R-2
ADJACENT ZONING TO THE WEST: B-3

SITE AREA
=21,844 SF OR .501 ACRES

PROPOSED USE
SECTION 3.1.8_B_PRINCIPAL PERMITTED USES_ITEM XVIII
"OTHER USES WHICH ARE SIMILAR TO THE ABOVE USES, AS DETERMINED BY THE PLANNING COMMISSION".

SECTION 3.1.8_B_PRINCIPAL PERMITTED USES_ITEM VIII
"PROFESSIONAL AND ADMINISTRATIVE USES"
VETERINARY HOSPITAL AND DANCE SCHOOL

BECAUSE THE ORDINANCE DOES NOT ADDRESS A VETERINARY HOSPITAL OR A DANCE SCHOOL, WE ARE ASKING THE PLANNING COMMISSION TO RECOGNIZE BOTH FUNCTIONS AS SIMILAR TO A PROFESSIONAL AND ADMINISTRATIVE USE WHICH IS A PRINCIPAL PERMITTED USE IN THE B-3 DISTRICT.

PETS ARE DROPPED OFF FOR MEDICAL CARE FROM A PROFESSIONAL VETERINARIAN.

PROPOSED AREA OF BUILDING (GFA)
=5,100 SF TOTAL
=2,590 SF VETERINARY HOSPITAL
=2,510 SF DANCE SCHOOL

MAXIMUM BUILDING HEIGHT:
=30' OR THREE STORIES
HEIGHT PROVIDED
=23'-2"

REQUIRED FRONT YARD SETBACK:
40 FT
PROVIDED
5.33 FT

REQUIRED REAR YARD BUILDING SETBACK:
20 FT
PROVIDED
58.33 FT

REQUIRED SIDEYARD SETBACK:
0 FT
PROVIDED
27.66 FT

MAXIMUM LOT COVERAGE:
NO RESTRICTION
PROVIDED
23.6%

MINIMUM WIDTH
NO RESTRICTIONS

MINIMUM LOT SIZE:
NO RESTRICTIONS

PARKING CALCULATIONS PER GFA
MINIMUM PARKING REQUIRED FOR HOSPITAL
=1/ EVERY 100 SF IN WAITING AREA + 1/EXAM ROOM
=816/100 =9 SPACES
=3 EXAM ROOMS = 3 SPACES
=TOTAL 12 SPACES

MINIMUM PARKING REQUIRED FOR SCHOOL
=1/ 2 TEACHERS AND 1/ 10 STUDENTS
=3 TEACHERS = 2 SPACE
=60 STUDENTS = 6 SPACES
=TOTAL 8 SPACES

TOTAL REQUIRED SPACES
=20 SPACES

PARKING PROVIDED
=21 SPACES (INCLUDING 2 BARRIER FREE SPACES)

PARKING DIMENSIONS
= 9' X 20'
AISLE DIMENSIONS
= 20'
LOADING PROVIDED: 1 SPACE AT 20' X 50'

EMPLOYEES
NUMBER OF EMPLOYEES HOSPITAL LARGEST SHIFT: 4 PEOPLE
HOURS OF OPERATION 8 AM - 6 PM M-F

NUMBER OF EMPLOYEES SCHOOL LARGEST SHIFT: 3 PEOPLE
HOURS OF OPERATION 4 PM - 9 PM M-F

DIRECTORY

ARCHITECT
HOPPE DESIGN
47032 McBRIDE
BELLEVILLE, MI 48111
734-218-2492

APPLICANT AND OWNER
HEATHER KRULACK
HKRULACK@GMAIL.COM
734.787.0018

DRAWING INDEX

DT TITLE SHEET

STRUCTURAL
S001 STRUCTURAL NOTES
S002 SPECIAL INSPECTIONS
S101 STRUCTURAL FLOOR PLAN

ARCHITECTURAL
A001 MATERIAL SPECIFICATION
A002 CODE ANALYSIS
A101 FLOOR PLAN
A102 REFLECTED CEILING AND INTERIOR ELEVATION
A103 DEMOLITION PLAN
A501 SCHEDULES

MECHANICAL
M101 HVAC PLANS

PLUMBING
P101 SANITARY PLUMBING PLAN
P102 SUPPLY PLUMBING PLAN

ELECTRICAL
E101 LIGHTING PLAN
E102 POWER PLAN

PC SUBMITTAL

PROJECT NUMBER: 2202
DATE: 3/3/22

HOPPE DESIGN, LLC
47032 McBRIDE, BELLEVILLE, MI 48111
734-218-2492

REVISIONS

PROJECT: 2202
DATE: 5.30.22
DRAWN: JPH
CHECKED: WCH

PRELIMINARY NOT TO BE USED FOR CONSTRUCTION

TITLE SHEET

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DT

LOADS AND REFERENCES		
DESIGN LOADS		
TABLE 1604.5	OCCUPANCY CATEGORY	II
WIND		
FIGURE 1609.3.1	V BASIC WIND SPEED (MPH)	115
SECTION 1609.4.3	EXPOSURE CATEGORY	B
	Iw IMPORTANCE FACTOR	1
	ADJUSTMENT FACTOR	1.12
SNOW		
FIGURE 1608.2	Pg GROUND SNOW (PSF)	25.00
	Is IMPORTANCE FACTOR	1.00
	Ce EXPOSURE FACTOR	1.00
	CI THERMAL FACTOR	1.00
	ROOF DEAD LOAD (PSF)	20.00
	CEILING DEAD LOAD (PSF)	5.00
	TOTAL UNFACTORED DESIGN ROOF LOAD (PSF)	
	25 + 20 + 5 =	50
SOILS		
	SELF SUPPORTING FOUNDATION (MINIMUM ALLOWABLE BEARING PRESSURE IN PSF)	3000
SEISMIC		
TABLE 1604.5	RISK CATEGORY	II
	I _e SEISMIC IMPORTANCE FACTOR	1.00
FIGURE 1613.3.1(1)	S _s MAPPED TWO SECOND SPECTRAL RESPONSE ACCELERATION	1g
FIGURE 1613.3.1(2)	S ₁ MAPPED ONE SECOND SPECTRAL RESPONSE ACCELERATION	0.4g
SECTION 1613.3.2	SITE CLASS	D
SECTION 1613.3.4	SHORT PERIOD DESIGN SPECTRAL RESPONSE ACCELERATION	0.1
SECTION 1613.3.4	S _{CD1} ONE SECOND DESIGN SPECTRAL RESPONSE ACCELERATION	0.08
SECTION 1613.3.3, TABLE 1613.3.3(2)	F _A	1.6
SECTION 1613.3.3, TABLE 1613.3.3(2)	F _v	2.4
	S _{MS} F _s S ₂	0.16
	S _{M1} F _s S ₁	0.12
SECTION 1613.3.1	SDC SEISMIC DESIGN CATEGORY	A
	NO SPECIAL ANALYSIS REQUIRED FOR SEISMIC DESIGN CATEGORY A	
	ALL LOADS ARE SUBJECT TO MODIFICATION PER REQUIREMENTS OF ASCE-7	
REFERENCES		
STRUCTURAL LOADS	ASCE-7	2010
CONCRETE	ACI 301	
	ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE	2010
	ACI SP 66	
	PORTLAND CEMENT ASSOCIATION "DESIGN AND CONTROL OF CONCRETE MIXTURE"	2011
MASONRY	ACI 530/ASCE 5	2013
	ACI 530.1/ASCE 6	
	NCMA TEK 3-48 "BRACING CONCRETE MASONRY WALLS DURING CONSTRUCTION"	2005
BRICK	BRICKTECHNICAL NOTES ON BRICK CONSTRUCTION"	
STEEL	AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS"	13TH EDITION
WELDING	AMERICAN WELDING SOCIETY AWS D1.1/D1.1M	2015
STEEL JOISTS	STEEL JOISTS INSTITUTE "STANDARD SPECIFICATION"	
METAL DECK	STEEL DECK INSTITUTE	1987
WOOD	"NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION"	2015
SOILS REPORT	ANSI/AF&P ANDS	
	TO BE PROVIDED BY DEVELOPER	

GENERAL
IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORING AND BRACING DURING CONSTRUCTION TO ACCOUNT FOR ALL FORCES, INCLUDING BUT NOT LIMITED TO FORCES FROM GRAVITY, EARTH, WIND AND UNBALANCED FORCES DUE TO CONSTRUCTION SEQUENCES.

THE STRUCTURAL INTEGRITY OF THE BUILDING SHOWN ON THESE PLANS IS DEPENDENT UPON COMPLETION ACCORDING TO PLANS AND STRUCTURAL MEMBERS ARE NOT SELF BRACING AND SHALL BE SHORED AND/OR BRACED BY THE CONTRACTOR AS NECESSARY UNTIL STABILIZED BY VIRTUE OF COMPLETED CONNECTIONS.

FIELD MEASURE AND VERIFY ALL DIMENSIONS AND ELEVATIONS BEFORE FABRICATION.

FOUNDATIONS
ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL, HAVING A MINIMUM SAFE BEARING CAPACITY. THE TESTING AND INSPECTION AGENCY SHALL VERIFY SOIL BEARING CAPACITY AT EACH FOOTING PRIOR TO INSTALLATION OF FOOTING. NOTIFY ENGINEER OF ANY VARIATION FROM ANTICIPATED BEARING CAPACITY FOR APPROPRIATE RE-DESIGN OR LOWERING OF FOOTING.

THE BOTTOMS OF ALL EXTERIOR FOOTINGS SHALL BE 3'-6" MINIMUM BELOW FINISHED GRADE. IF THE BUILDING WILL BE UNDER CONSTRUCTION DURING FREEZING WEATHER, ALL INTERIOR FOUNDATIONS SHALL BE DERESSED 3'-6" BELOW CONSTRUCTION GRADE FOR FROST PROTECTION. IF SUCH ADDITIONAL FOOTING DEPTH WILL CAUSE UNDERMINING OF ADJACENT EXISTING FOOTINGS OR STRUCTURES, PROVIDE APPROPRIATE SHORING, BRACING OR UNDERPINNING AS REQUIRED OR LEAVE FOOTING ELEVATION AS DESIGNED AND PROVIDE CONTINUED PROTECTION AND HEAT TO PREVENT FORMATION OF FROST BELOW FOOTING AND ADJACENT TO FOOTING.

THE CONTRACTOR SHALL SAFEGUARD AND PROTECT ALL EXCAVATIONS AND ADJACENT STRUCTURES, PAVEMENTS, AND UTILITIES. ALL EXCAVATIONS SHALL BE KEPT FREE OF WATER. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, INSTALLATION, MAINTENANCE AND REMOVAL OF ALL SHORING, BRACING, AND Dewatering THAT IS REQUIRED TO PROPERLY CONSTRUCT THE FOUNDATIONS AND PROTECT ADJACENT STRUCTURES, PAVEMENTS AND UTILITIES.

PRETREAT EXCAVATIONS WITH TERMITICIDE AND INSPECT EXCAVATIONS PRIOR TO POURING CONCRETE.

TEMPORARY BRACING MUST BE PROVIDED TO RESIST ALL LATERAL FORCES UNTIL STRUCTURAL SYSTEM IS SELF SUPPORTING.

CONCRETE SLABS
PLUMBING AND ELECTRICAL CONTRACTORS ARE TO PROVIDE ALL REQUIRED UNDERSLAB WORK PRIOR TO POURING THE FLOOR SLAB.

INSPECT ALL REINFORCING BEFORE POURING CONCRETE.

SLOPE SLABS TO FLOOR DRAINS. VERIFY DEPRESSIONS AND FLOOR FINISHES.

PROVIDE 3" CONCRETE COVER MINIMUM FROM TOP OF SLAB TO SLAB REINFORCING AND LAP ALL STEEL FABRIC SPLICES 6" MIN. REINFORCING SHALL BE CENTERED IN SLAB.

GRANULAR BASE TO BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY UNDER ALL SLABS ON GRADE.

REINFORCING
MINIMUM CONCRETE COVERING SHALL BE:
3" FOOTING BOTTOM
2" COLUMNS, BEAMS AND FORMED SURFACES IN DIRECT CONTACT WITH SOIL OR EXPOSED TO THE WEATHER, EXCEPT SLABS.
2" DECK SLAB TO TOP
1" DECK SLAB TO BOTTOM
1" INTERIOR FACES OF WALLS AND SLABS NOT EXPOSED TO WEATHER
3" INTERIOR SLABS

MASONRY
MASONRY WALLS ARE TO BE ADEQUATELY BRACED DURING CONSTRUCTION. SEE "STANDARD PRACTICE FOR BRACING MASONRY WALLS UNDER CONSTRUCTION" BY THE COUNCIL FOR MASONRY WALL BRACING AND ALSO NOMA TEK 304B "BRACING CONCRETE MASONRY WALLS DURING CONSTRUCTION" FOR RECOMMENDATIONS REGARDING BRACING.

PLACE LADDER TYPE HORIZONTAL JOINT REINFORCING WITH PREFORMED LAPPED CORNER REINFORCING.

THE DISCONTINUOUS ENDS OF ALL MASONRY WALLS SHALL BE SOUDLY GROUTED A MINIMUM OF 8" OR ONE BLOCK CELL AND REINFORCED FOR THEIR FULL HEIGHT WITH ONE #5 BAR UNO.

AT GROUDED CELLS LIFTS OF GROUT SHALL BE KEYED 4" INTO THE COURSE OF MASONRY BELOW.

ALL CMU BOND BEAMS TO HAVE (2) #4 BARS CONTINUOUS. PROVIDE (2) #4 L BARS AT EVERY CORNER LAPPED 3'-0" WITH CONTINUOUS BARS.

VERTICAL CONTROL JOINTS IN CMU WALLS TO HAVE A MINIMUM 3/8" GAP AND SHALL BE LOCATED BY THE ARCHITECT, BUT NOT MOVE THAN 20'-0" OC.

BRICK TIES SHALL BE GALVANIZED ADJUSTABLE 2-PIECE WIRE TIES OF NOT LESS THAN 9 GAGE AND SHALL BE SPACED AT 16" OC VERTICALLY AND HORIZONTALLY.

WHERE MASONRY MEETS STRUCTURAL MEMBERS SUBJECT TO VERTICAL DEFLECTION, PROVIDE ALLOWANCE FOR VERTICAL MOVEMENT OF L/240 OF STRUCTURAL MEMBER.

BOND BEAM REINFORCING TO BE CONTINUOUS ACROSS CONTROL JOINTS.

PROVIDE A 24" LAP AT FOUNDATION DOWELS.

AIR TEMPERATURE AT TIME OF MASONRY INSTALLATION SHALL BE 40<T<90 DEGREES F.

METAL DECK
UNLESS OTHERWISE NOTED, ALL METAL DECK HAS BEEN DESIGNED TO BE CONTINUOUS OVER 3 SPANS MINIMUM AND SHALL BEAR AT LEAST 2" ON STEEL SUPPORTS. FOR ONE OR TWO SPAN CONDITIONS, THE CONTRACTOR SHALL PROVIDE SHORING AS REQUIRED OR FURNISH HIGHER GAGE DECK AS REQUIRED TO SUPPORT ALL THE APPLICABLE LOADS. CONTRACTOR SHALL SUBMIT ALTERNATE FOR APPROVAL.

PROVIDE REINFORCING CHANNELS, STANDARD CLOSURES, CANT STRIPS, SLUMP PANS, FINISH STRIPS, POUR STOPS, AND OTHER ACCESSORIES AS REQUIRED FOR PROPERLY FINISHED JOB, EVEN IF NOT SPECIFICALLY SHOWN ON THE DRAWINGS. PROVIDE BEARING ANGLES WELDED TO COLUMNS TO SUPPORT METAL DECKS AS REQUIRED.

FASTEN STEEL DECK UNITS TO STRUCTURAL SUPPORTS USING HEX WASHER HEAD TEK SCREWS OR ARC SPOT WELDS ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND IN CONFORMANCE WITH THE STEEL DECK INSTITUTES SPECIFICATION SECTION 4.4.

METAL STUD SIZING

ALLOWABLE HEIGHTS STUD SIZE	16" OC/ 33 KSI **
3 1/2" OR 4" X 20 GA	13'-11"
3 1/2" OR 4" X 18 GA	18'-2"
3 1/2" OR 4" X 16 GA	19'-6"

5 1/2" OR 6" X 20 GA	23'-11"
5 1/2" OR 6" X 18 GA	27'-2"
5 1/2" OR 6" X 16 GA	30'-0"

** HEIGHTS BASED ON 16" OC STUD SPACING, 5 PSF LATERAL LOAD, L/240 DEFLECTION, NON-STRUCTURAL APPLICATION. BRIDGING AT MIDPOINTS OR 8'-0" MAX

STUD SIZE	16" OC/33 KSI***	12" OC/33 KSI***
3 1/2" OR 4" X 20 GA	11'-0"	12'-3"
3 1/2" OR 4" X 18 GA	12'-0"	13'-3"
3 1/2" OR 4" X 16 GA	13'-0"	14'-3"

5 1/2" OR 6" X 20 GA	16'-4"	18'-0"
5 1/2" OR 6" X 18 GA	18'-0"	19'-8"
5 1/2" OR 6" X 16 GA	19'-3"	21'-3"
5 1/2" OR 6" X 12 GA	22'-9"	28'-0"

8" X 20 GA	20'-6"	22'-8"
8" X 18 GA	22'-6"	24'-9"
8" X 16 GA	24'-3"	26'-8"
8" X 12 GA	28'-9"	31'-8"

STUD SIZE	16" OC/50 KSI***	12" OC/50 KSI***
3 1/2" OR 4" X 20 GA	12'-0"	13'-6"
3 1/2" OR 4" X 18 GA	13'-3"	14'-8"
3 1/2" OR 4" X 16 GA	14'-3"	15'-8"

5 1/2" OR 6" X 20 GA	18'-0"	20'-0"
5 1/2" OR 6" X 18 GA	19'-8"	21'-8"
5 1/2" OR 6" X 16 GA	21'-3"	23'-4"
5 1/2" OR 6" X 12 GA	28'-0"	31'-0"

8" X 20 GA	22'-6"	25'-0"
8" X 18 GA	24'-9"	27'-3"
8" X 16 GA	26'-8"	29'-4"
8" X 12 GA	31'-8"	34'-9"

*** HEIGHTS BASED ON 20 PSF LATERAL LOAD, L/240 DEFLECTION, STRUCTURAL APPLICATION. BRIDGING AT 1/3 POINTS OR 8'-0" MAX.

PRELIMINARY NOT TO BE USED FOR CONSTRUCTION

ARC SPOT WELDS (PUDDLE WELDS) TO SUPPORTS SHALL HAVE A DIAMETER OF 3/8" MINIMUM OR AN ELONGATED WELD OF 3/4" MINIMUM WIDTH AND 3/4" MINIMUM LENGTH. WELD METAL SHALL PENETRATE ALL LAYERS OF DECK MATERIAL AT END LAPS AND HAVE ADEQUATE FUSION TO THE SUPPORTING MEMBERS. WELDING SHALL BE DONE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY STANDARD "S" SPECIFICATION FOR WELDING SHEET STEEL IN STRUCTURES" AWS D1.3.

UNITS SHALL BE FASTENED TO THE STEEL SUPPORTS AT THE END OF THE UNITS AND AT INTERMEDIATE SUPPORTS AND TO THE STEEL SUPPORTS AT THE SIDE BOUNDARIES BY 3/4" DIAMETER PUDDLE WELDS AT 12" OC. SHEAR STUDS WELDED THROUGH DECK MAY BE USED IN PLACE OF 3/4" DIAMETER PUDDLE WELDS.

THE SIDE LAPS OF ADJACENT UNITS SHALL BE FASTENED BETWEEN SUPPORTS BY BUTTON PUNCHING AT 24" OC UNO.

STRUCTURAL STEEL
UNLESS OTHERWISE NOTED, ALL BEAMS AND LINTELS BEARING ON MASONRY SHALL HAVE A MINIMUM BEARING LENGTH OF 7 1/2" AND SHALL HAVE A MINIMUM OF TWO BLOCK COURSES AT 32" LONG OF SOLID MASONRY UNDER THE BEARING SURFACE.

WHERE STEEL CONNECTIONS ARE NOT FULLY DETAILED ON THE DESIGN DRAWINGS (WITH ALL REQUIREMENTS FOR BOLTS, PLATES, WELDS, DIMENSIONS, ETC SHOWN) CONNECTIONS SHALL BE DESIGNED BY THE STEEL CONTRACTOR UNDER THE SUPERVISION OF A P.E. LICENSED IN THE STATE THAT HAS JURISDICTION OVER THE PROJECT.

WHERE TYPICAL OR INCOMPLETE CONNECTIONS ARE SHOWN ON THE DESIGN DRAWNGNS, THOSE DETAILS SHALL BE USED AS A BASIS FOR CONNECTION DESIGN TO BE COMPLETED BY THE CONTRACTOR. ALTERNATE CONNECTIONS DESIGNED BY THE STEEL CONTRACTOR WILL BE PROVIDED IF REQUIRED DESIGN FORCES CANNOT BE ACHIEVED BY THE TYPICAL OR EXAMPLE CONNECTION, OR IF AUTHORIZATION TO ALTER THE DETAIL IS PROVIDED BY THE DESIGN ENGINEER.

WHERE CONNECTION FORCES ARE INDICATED ON THE DRAWINGS, PROVIDE CONNECTIONS DESIGNED TO RESIST THE FORCE SHOWN.

WHERE CONNECTION FORCES ARE NOT INDICATED ON THE DRAWINGS, PROVIDE CONNECTIONS DESIGNED TO RESIST FORCES AS FOLLOWS: FOR SHEAR CONNECTIONS IN NON-COMPOSITE MEMBERS, DESIGN CONNECTIONS TO RESIST 50% OF THE TOTAL ALLOWABLE UNIFORM LOAD SHOWN IN THE TABLES IN PART 3 OF THE AISC MANUAL OF STEEL CONSTRUCTION. FOR SHEAR CONNECTIONS IN COMPOSITE MEMBERS, DESIGN CONNECTIONS TO RESIST 75% OF THE TOTAL ALLOWABLE UNIFORM LOAD SHOWN IN THE TABLES IN PART 3 OF THE AISC MANUAL OF STEEL CONSTRUCTION. FOR MOMENT CONNECTIONS, DESIGN CONNECTIONS TO RESIST 100% OF MOMENT CAPACITY OF THE MEMBER.

ALL FULLY TENSIONED A490 BOLTS SHALL HAVE WASHERS BENEATH BOTH NUT AND HEAD. PROVIDE TEMPLATES TO LOCATE ANCHOR BOLTS AND BASE PLATES.

SHOP AND FIELD CONNECTIONS SHALL BE MADE BY WELDING OR HIGH STRENGTH BOLTING. BOLTED CONNECTIONS SHALL CONFORM TO ASTM A325-X USING LOAD INDICATOR WASHERS (LIW) OR LOAD INDICATOR BOLTS (LIB). BEAM CONNECTIONS SHALL PROVIDE SHEAR CAPACITY TO SUPPORT A REACTION R EQUAL TO HALF THE SHEAR CAPACITY OF BEAM. USE 1" DIA BOLTS, E70XX 1/2" WELD AND 3/8" ANGLE THICKNESS.

ALL WELDING SHALL BE PROVIDED USING THE ELECTRIC ARC METHOD IN ACCORDANCE WITH THE LATEST REVISION OF THE AWS D1.1. E70XX ELECTRODES CONFORMING TO AWS A5.1 OR A5.5 SHALL BE USED FOR SHIELDED METAL ARC METHOD AND Fx7-EXXX ELECTRODE CONFORMING TO AWS F5.17 FOR SUBMERGED ARC METHOD.

ALL WELDS SHALL BE PROVIDED AS SHOWN IN THE STRUCTURAL DETAILS UNLESS THICKER WELD IS REQUIRED DUE TO MATERIAL THICKNESSES. WHERE WELD IN NOT DETAILED, WELD SHALL BE DESIGNED BY A LICENSED ENGINEER RETAINED BY THE CONTRACTOR TO MEET CONNECTION CAPACITY REQUIREMENTS LISTED ABOVE. WELD SIZES SHALL BE INCREASED AS NEEDED TO MEET THE FOLLOWING MINIMUM WELD SIZE REQUIREMENTS BASED ON THE SMALLER MATERIAL THICKNESS OF THE PIECES OF STEEL BEING WELDED TOGETHER:

MATERIAL THICKNESS	MIN FILLET WELD SIZE (PROVIDE LARGER WELD IF REQUIRED FOR STRESS)
1/4" AND UNDER	3/8"
OVER 1/4" TO 3/8"	7/16"
OVER 3/8" TO 1/2"	1"
OVER 1/2" TO 3/4"	1 1/4"
OVER 3/4"	1 3/4"

IF PENETRATIONS THROUGH WEBS OF STEEL BEAMS WILL BE REQUIRED, CONTRACTOR TO NOTIFY ENGINEER OF RECORD.

SEE ARCHITECTURAL DRAWINGS FOR MISCELLANEOUS AND NON-STRUCTURAL STEEL.

STEEL JOISTS
PROVIDE AND INSTALL BRIDGING IN ACCORDANCE WITH STEEL JOISTS INSTITUTE STANDARDS. ALL ENDS OF BRIDGING LINES TERMINATING AT MASONRY WALLS SHALL BE ANCHORED THERETO IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. WHERE BRIDGING DOES NOT TERMINATE AT A MASONRY WALL, THE FIRST AND SECOND BAYS FROM THE END OF THE BRIDGING IS TO BE DIAGONAL X-BRIDGING. MANUFACTURER TO PROVIDE ADDITIONAL BRIDGING AS REQUIRED TO SATISFY SA UPLIFT REQUIREMENTS.

WHERE STEEL JOISTS SUPPORT MOVEABLE PARTITIONS, JOIST MANUFACTURER SHALL DESIGN JOIST FOR A MAXIMUM LIVE/SNOW LOAD DEFLECTION OF THE SMALLER OF 1/2" AND L/360.

JOIST MANUFACTURER SHALL LIMIT JOIST DEFLECTION DUE TO LIVE/SNOW LOAD TO L/360.

THE ENDS OF STEEL JOIST SHALL BEAR A MINIMUM DISTANCE OF 2 1/2" INCHES OVER STEEL SUPPORTS AND 4 INCHES OVER ALL OTHER SUPPORTS. THE ENDS SHALL BE FASTENED BY BOLTING AND OR WELDING.

ERECTION OF JOISTS AND JOIST BRIDGING SHALL CONFORM TO ALL REQUIREMENTS OF OSHA AND JOIST MANUFACTURER.

WOOD FRAMING
ALL LUMBER IN CONTACT WITH MASONRY OR STEEL TO BE PRESERVATIVE TREATED.

ALL FLUSH FRAMED CONNECTIONS ARE TO MADE USING JOIST HANGERS DESIGNED FOR THE SPECIFIC CONDITION UNLESS OTHER CONNECTIONS ARE PROVIDED.

SHOP DRAWNGNS SHALL BE PROVIDED FOR ALL ENGINEERED WOOD MATERIAL INDICATING PRODUCTS, DETAILS, CONNECTIONS AND ACCESSORIES AS REQUIRED BY THE MANUFACTURE TO MEET PROJECT LOADING REQUIREMENTS.

OBSERVE ALL CODE REQUIREMENTS FOR BRIDGING, BORING, AND NOTCHING OF STUDS AND JOISTS. FOR BRIDGING, BORING AND NOTCHING OF ENGINEERED WOOD PRODUCTS OBSERVE ALL MANUFACTURER REQUIREMENTS.

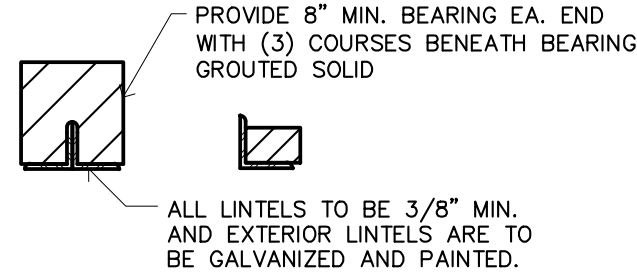
BRIDGING SHALL BE PROVIDED FOR ALL ROOF RAFTERS.

ALL ROOF RAFTERS ARE TO BE 24" ON CENTER UNLESS OTHERWISE NOTED.

ROOF DESIGN NOTES:

- VERTICAL WEB MEMBERS FOR ALL GABLE END TRUSSES SHALL BE DESIGNED TO RESIST A HORIZONTAL WIND LOAD RESULTING FROM THE DESIGNED WIND SPEED WITHOUT EXCEEDING THE DEFLECTION LIMIT OF L/600 OF THEIR RESPECTIVE VERTICAL SPANS.
- BRIDGING FOR BOTTOM CHORDS SHALL BE DESIGNED TO DISTRIBUTE THE HORIZONTAL WIND LOAD PROPOSED ON THE COMPLETE BUILDING TO THE SHEAR WALLS AND SHALL BE DESIGNED FOR A TOTAL IMPOSED WIND LOAD ON BUILDING INCLUDING WINDWARD AND LEeward PRESSURE FROM THE DESIGNED WIND SPEEDS.

MASONRY LINTEL SCHEDULE



HORIZONTAL LEGS
4" MASONRY: ONE 3 1/2"
6" MASONRY: TWO 2 1/2"
8" MASONRY: TWO 3 1/2"
10" MASONRY: TWO 4"
12" MASONRY: TWO 5"

VERTICAL LEGS
SPANS LESS THAN 4'-0": 3 1/2" MIN.
SPANS 4'-0" TO 6'-8": 5" MIN.
SPANS OVER 6'-8" SEE PLANS OR CONTACT ARCHITECT FOR SIZING

NOTES:
1. PROVIDE BRICK SOLIDS AT ALL SILL ENDS.
2. RETURN BRICK AT WINDOWS ADJACENT TO SIDING
3. ALL BRICK LINTELS TO BE GALVANIZED.

STRUCTURAL NOTES

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STATEMENT OF SPECIAL INSPECTIONS

STEEL CONSTRUCTION (TABLE 1704.3)	FREQUENCY		REFERENCE CRITERIA	
	CONT-INOUS	PERI-ODIC	REFERENCED STANDARD	IBC REFERENCE
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS, AND WASHERS:				
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	—	X	APPLICABLE ASTM MATERIAL SPECIFICATIONS; AISC 360, SECTION A3.3	—
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	—	X	—	—
2. INSPECTION OF HIGH-STRENGTH BOLTING	—	X		
A. SNUG TIGHT JOINTS	—	X		
B. SLIP-CRITICAL CONNECTIONS WITH MATCHMARKING, TWIST OFF BOLT OR DIRECT TENSION INDICATOR	X	X	AISC 360, SECTION M2.5	1704.3.3
C. SLIP-CRITICAL CONNECTIONS WITHOUT MATCHMARKING OR CALIBRATED WRENCH METHODS	X			
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL				
A. IDENTIFICATION MARKINGS TO CONFORM TO AISC 360	—	X	AISC 360, SECTION M5.5	
B. FOR OTHER STEEL IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS		X	APPLICABLE ASTM MATERIAL STANDARDS	
C. MANUFACTURER'S CERTIFIED MILL TEST REPORTS	—	X		
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS				
A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS	—	X	AISC 360, SECTION A3.5 AND APPLICABLE AWS A5 DOCUMENTS	—
MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	—	X	—	—
5. INSPECTION OF WELDING	—	—		
A. STRUCTURAL STEEL AND COLD FORMED STEEL DECK				
1) COMPLETE AND PARTIAL PENETRATION GROOVE WELDS	X	—		
2) MULTIPASS FILLET WELDS	X	—		
3) SINGLE-PASS FILLET WELDS < 5/16"	X	—	AWS D1.1	1704.3.1
4) PLUG AND SLOT WELDS	X			
5) SINGLE-PASS FILLET WELDS < 5/16"	—	X		
5) FLOOR AND ROOF DECK WELDS	—	X	AWS D1.3	—
B. REINFORCING STEEL:				
1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706	—	X		
2) REINFORCING STEEL-RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT	X	—	AWS D1.4 ACI 318: 3.5.2	—

3) SHEAR REINFORCEMENT	X	—
4) OTHER REINFORCING STEEL	—	X
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS:	—	X
A. DETAILS SUCH AS BRACING AND STIFFENING	—	X
B. MEMBER LOCATIONS	—	X
C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION	—	X

REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION (TABLE 1704.4)	FREQUENCY		REFERENCE CRITERIA	
	CONT-INOUS	PERI-ODIC	REFERENCED STANDARD	IBC SECTION
1. INSPECTION OF REINFORCING STEEL AND PLACEMENT	—	X	ACI 318: 3.5, 7.1-7.7	1913.4
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1704.3, ITEM 5B	—	—	AWS D1.4 ACI 318: 3.5.2	—
3. INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED	X	—	ACI 318: 8.13, 21.2.8	1911.5, 1912.1
4. INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE		X	ACI 318;3.8.6, 8.1.3, 21.2.8	1912.1
5. VERIFYING USE OF REQUIRED DESIGN MIX	—	X	ACI 318: CH. 4, 5.2-5.4	1904.3, 1913.2, 1913.3
6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIFIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X	—	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1913.1
7. INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	—	ACI 318: 5.9, 5.10	1913.6, 1913.7, 1913.8
8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	—	X	ACI 318: 5.11-5.13	1913.9
9. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	—	X	ACI 318: 6.1.1	—

LEVEL 1 SPECIAL INSPECTION (TABLE 1704.5.1) INSPECTION TASK	FREQUENCY		REFERENCE CRITERIA		
	CONT-INOUS	PERI-ODIC	OBC SECTION	ACI 530/ ASCE 5/ TMS 402	ACI 530.1/ ASCE 6/ TMS 602
1. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:					
A. PROPORTIONS OF SITE-PREPARED MORTAR	—	X	—	—	ART. 2.6a
B. CONSTRUCTION OF MORTAR JOINTS	—	X	—	—	ART. 3.3B
C. LOCATION OF REINFORCEMENT, CONNECTORS AND ANCHORAGES	—	X	—	—	ART. 3.4, 3.6A
2. THE INSPECTION PROGRAM SHALL VERIFY:					
A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS	—	X	—	—	ART. 3.3F
B. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION	—	X	—	SEC. 1.2.2(E), 1.16.1	—
C. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT	—	X	—	SEC. 1.15	ART. 2.4, 3.4

D. WELDING OF REINFORCING BARS	X	—	—	SEC. 2.1.9.7.2, 3.3.3.4(B)	—
E. PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40 DEG F) OR HOT WEATHER (TEMPERATURE ABOVE 90 DEG F)	—	X	SEC. 2104.3, 2104.4	—	ART. 1.8C, 1.8D
3. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:					
A. GROUT SPACE IS CLEAN	—	X	—	—	ART. 3.2D
B. PLACEMENT OF REINFORCEMENT AND CONNECTORS	—	X	—	SEC. 1.13	ART 3.4
C. PROPORTIONS OF SITE-PREPARED GROUT	—	X	—	—	ART. 2.6B
D. CONSTRUCTION OF MORTAR JOINTS	—	X	—	—	ART. 3.3B
4. GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS	X	—	—	—	ART 3.5
5. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED	—	—	SEC. 2105.2.2, 2105.3	—	ART. 1.4
6. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED	—	X	—	—	ART. 1.5

REQUIRED VERIFICATION AND INSPECTION OF SOILS (TABLE 1704.7) VERIFICATION AND INSPECTION	FREQUENCY	
	CONT-INOUS	PERI-ODIC
1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	—	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	—	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	—	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X	—
5. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	—	X

VERIFY ALL DIMENSIONS IN FIELD
PRELIMINARY NOT TO BE USED FOR CONSTRUCTION

SPECIAL INSPECTIONS

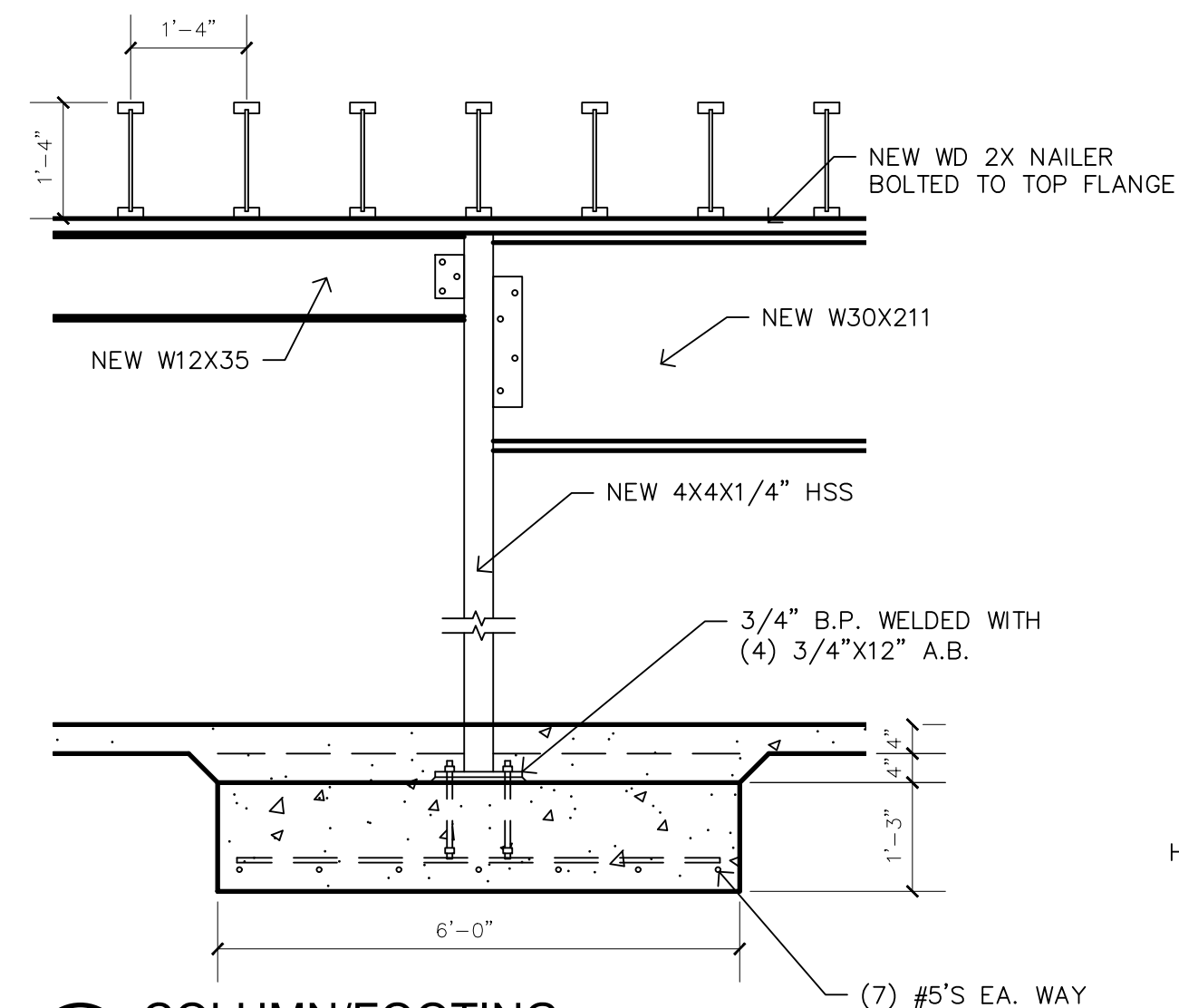
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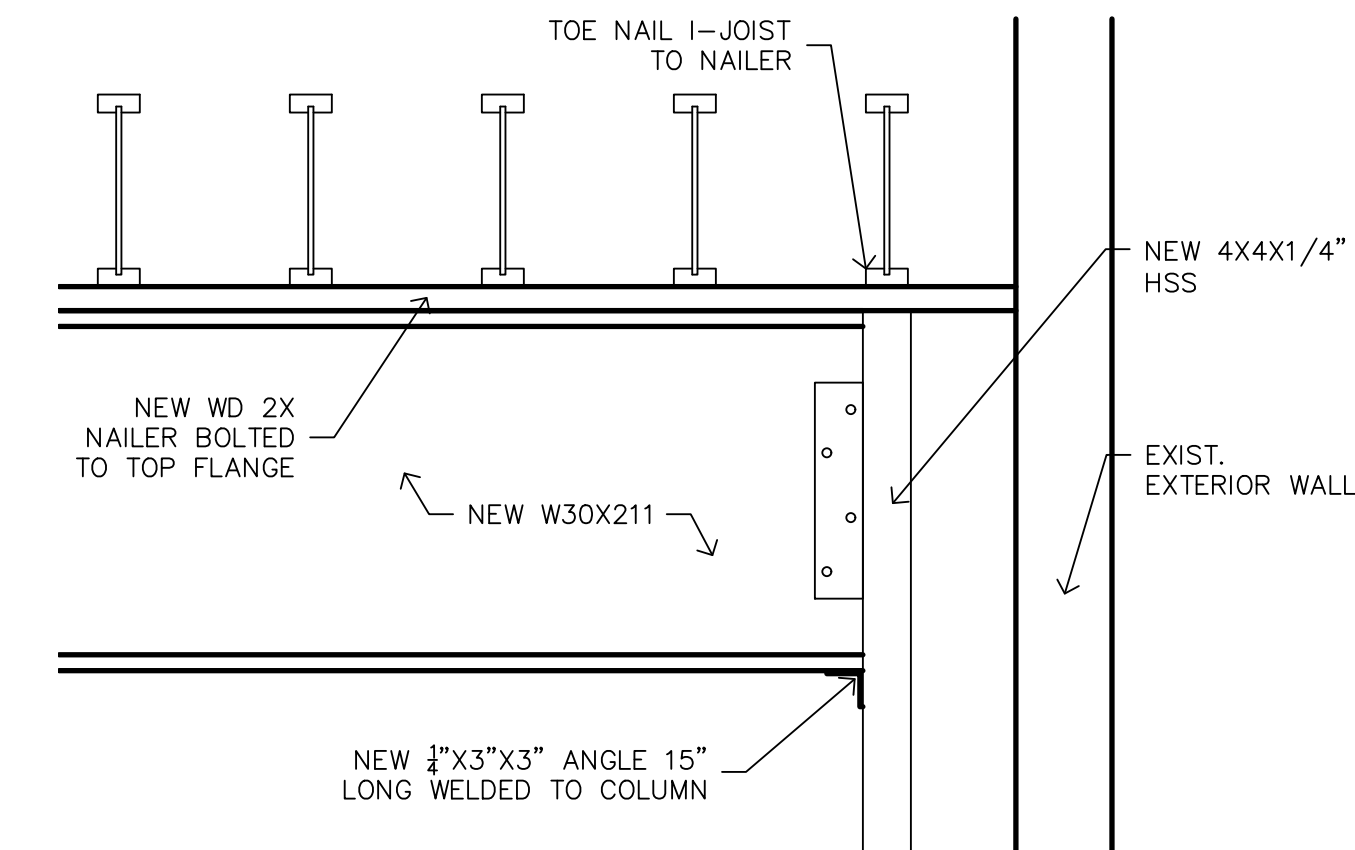
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DATE: 5.30.22
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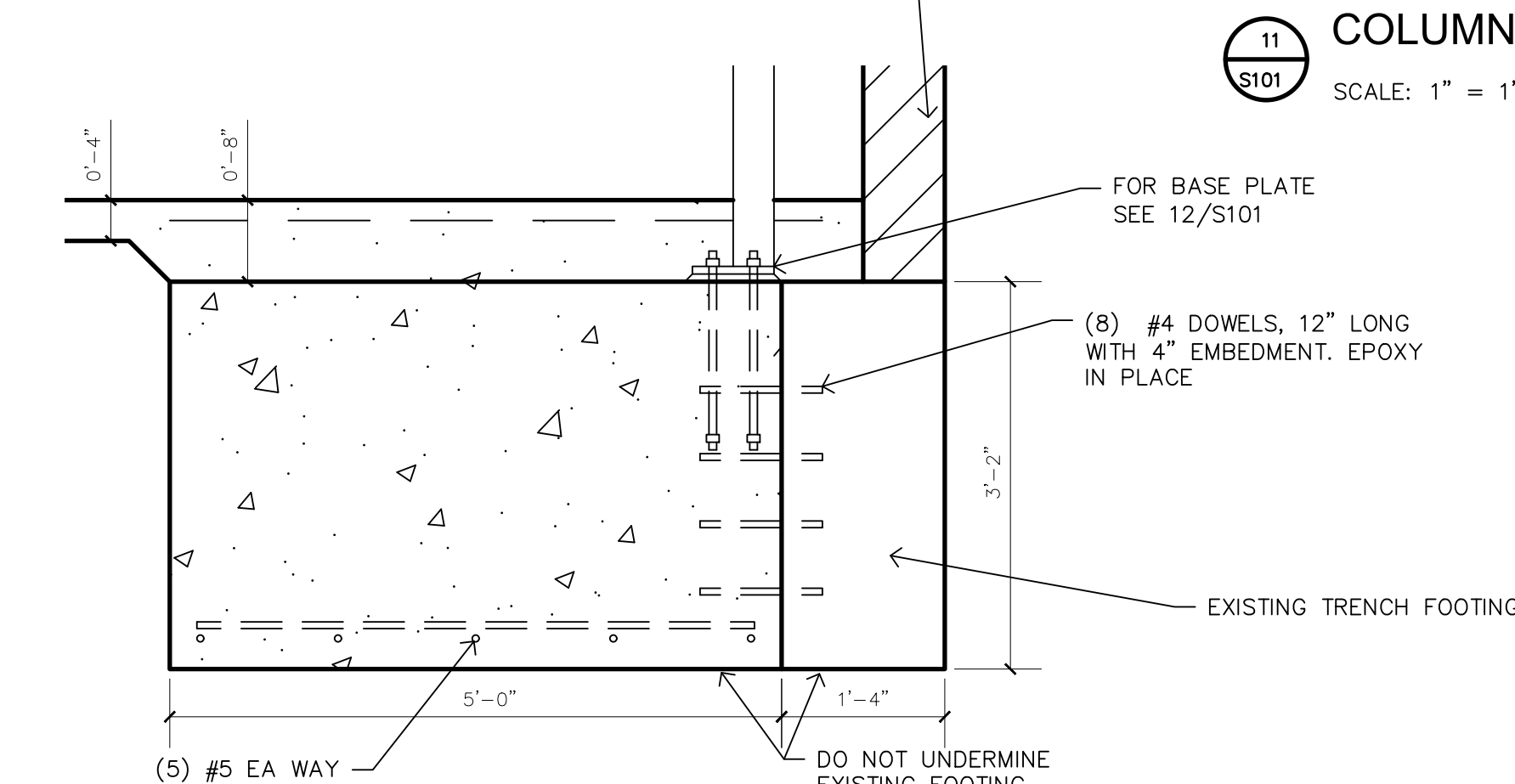
S002



8 COLUMN/FOOTING
SECTION F-2
SCALE: 1/2" = 1'-0"

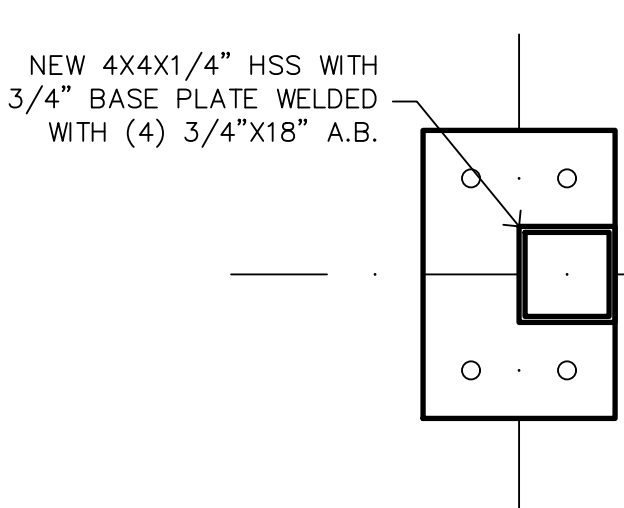


9 COLUMN/BAM
CONNECTION F-1
SCALE: 3/4" = 1'-0"

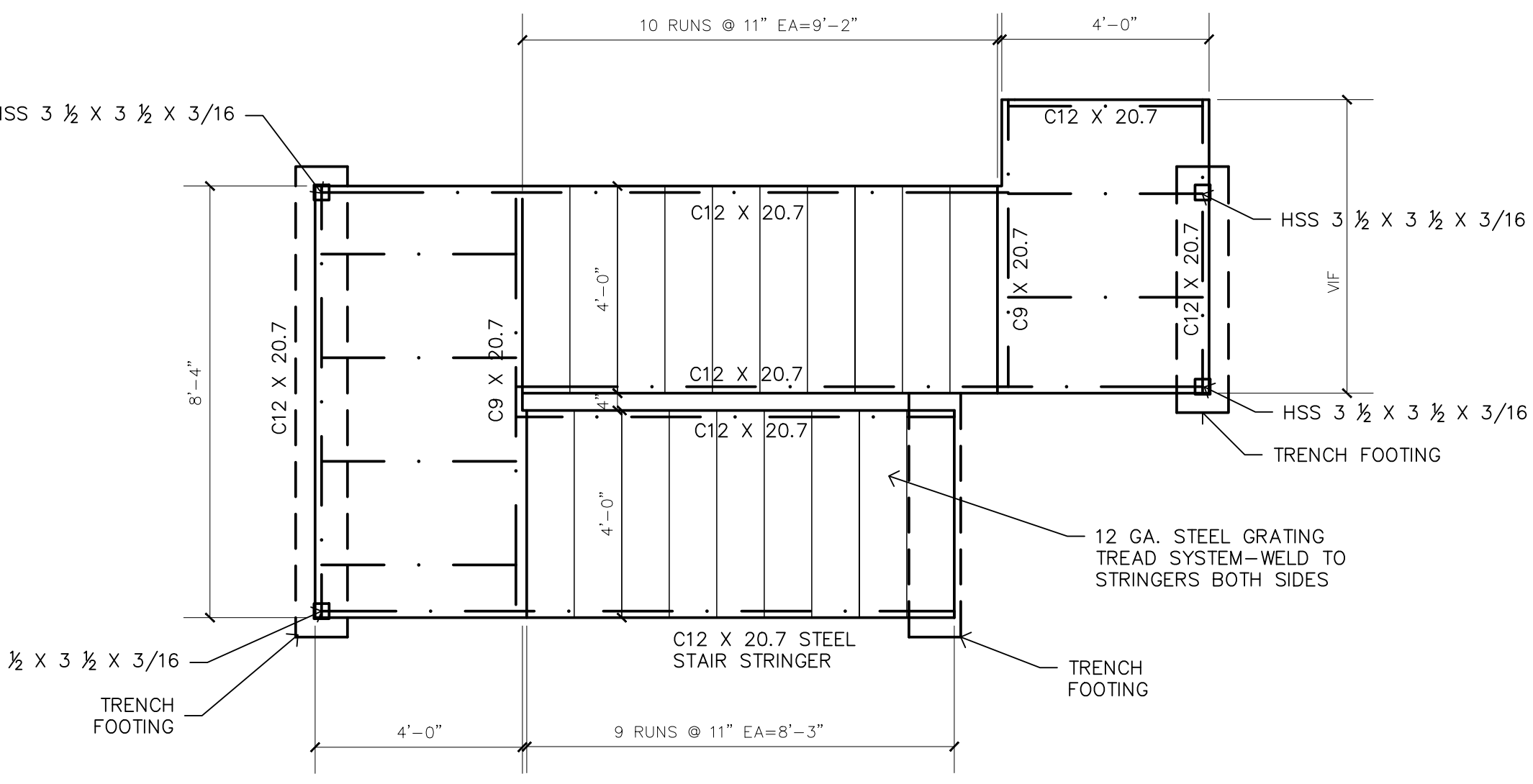


10 COLUMN FOOTING
SECTION F-1
SCALE: 3/4" = 1'-0"

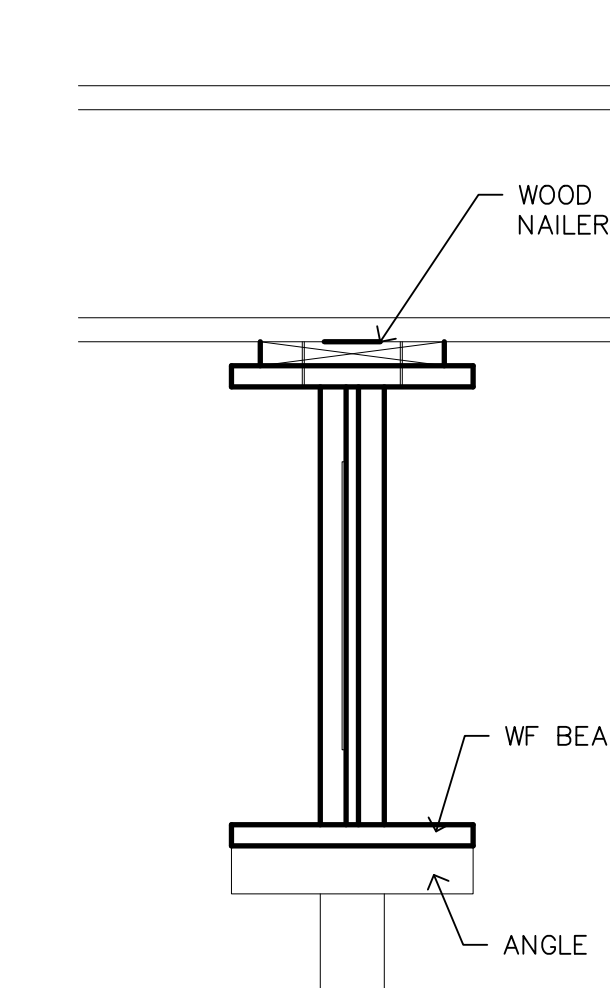
FOOTING SCHEDULE	
F1	5'-0" X 5'-0" X 3'-2" (12" MIN) WITH 5-#5 EACH WAY
F2	6'-0" X 6'-0" X 15" (15" MIN) WITH 7-#5 EACH WAY
F3	3'-0" X 3'-0" X 12" (12" MIN) WITH 4-#5 EACH WAY
F4	4'-0" X 4'-0" X 12" (12" MIN) WITH 5-#5 EACH WAY
F5	5'-0" X 5'-0" X 12" (12" MIN) WITH 5-#5 EACH WAY



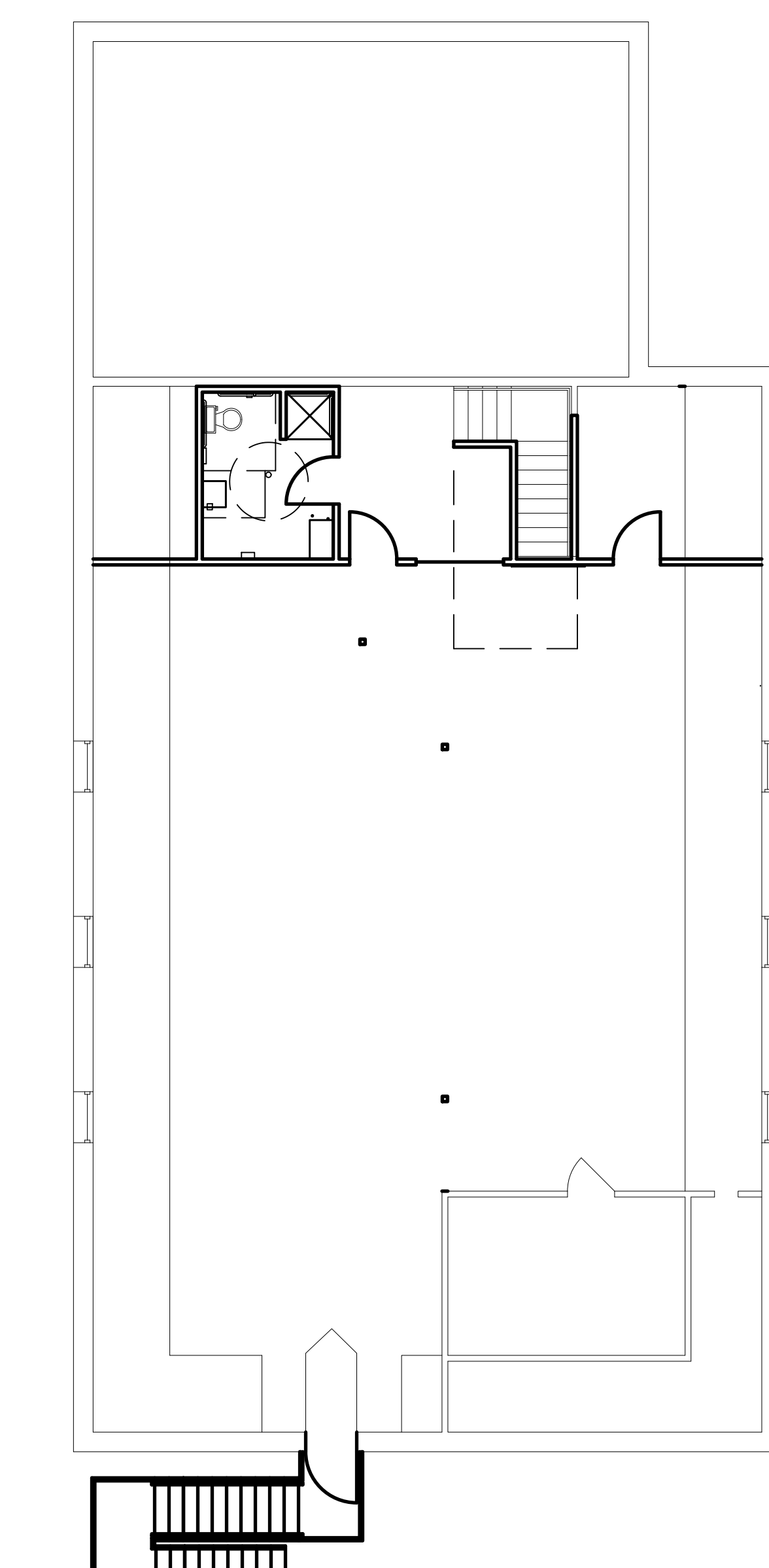
12 COLUMN BASE
SCALE: 1 1/2" = 1'-0"



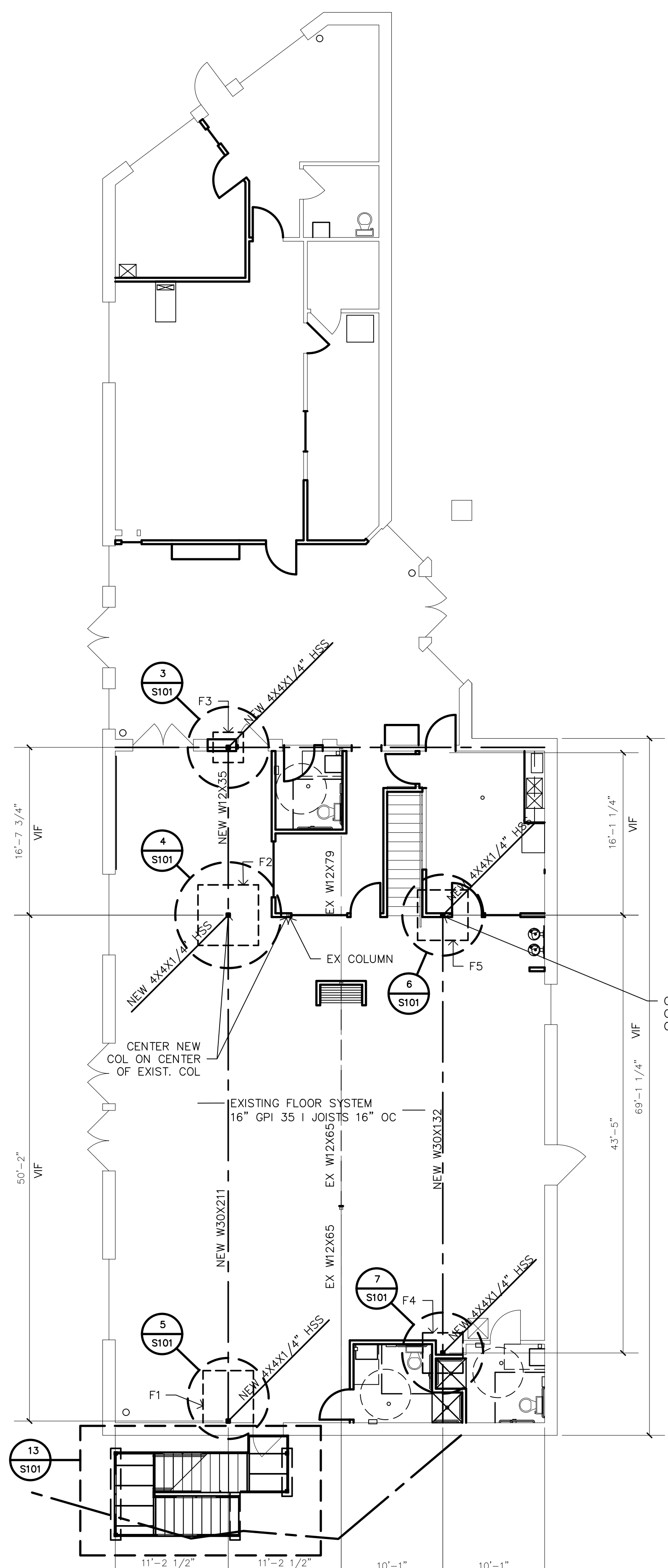
13 STRUCTURAL STAIR
PLAN
SCALE: 3/8" = 1'-0"



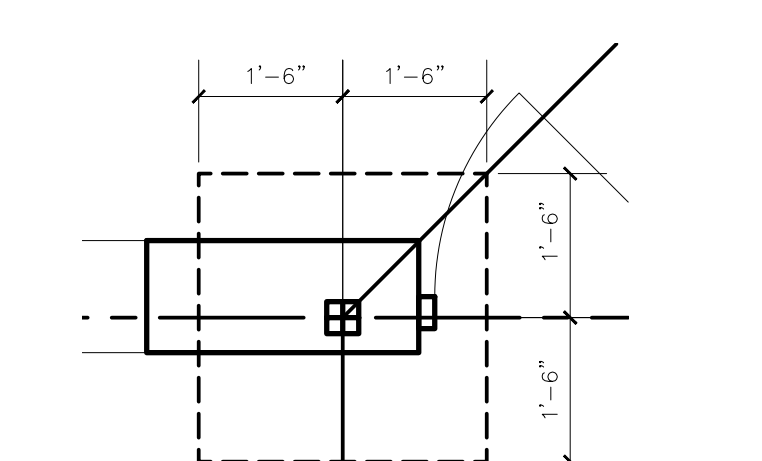
11 COLUMN SECTION
SCALE: 1" = 1'-0"



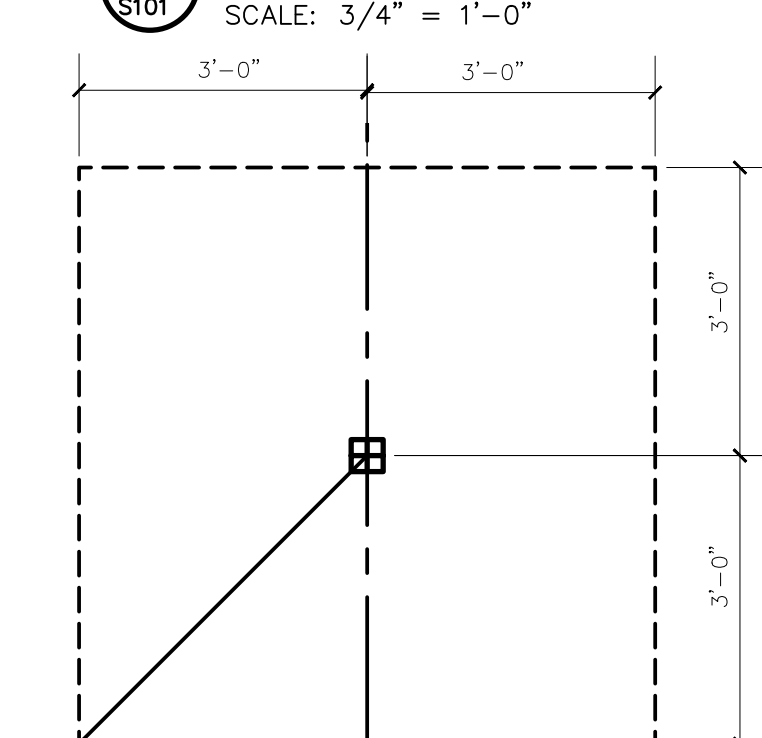
2 STRUCTURAL SECOND
FLOOR PLAN
SCALE: 3/16" = 1'-0"



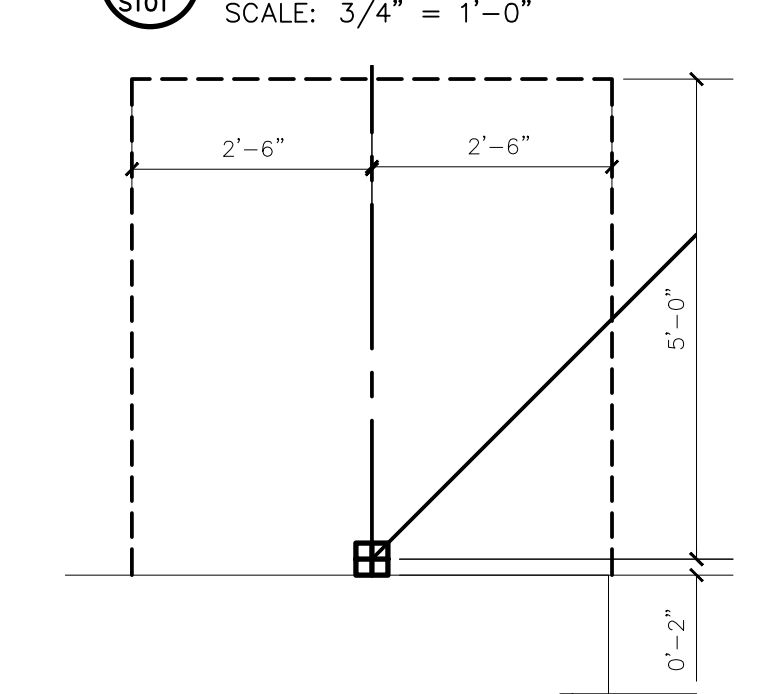
1 STRUCTURAL FIRST
FLOOR PLAN
SCALE: 3/16" = 1'-0"



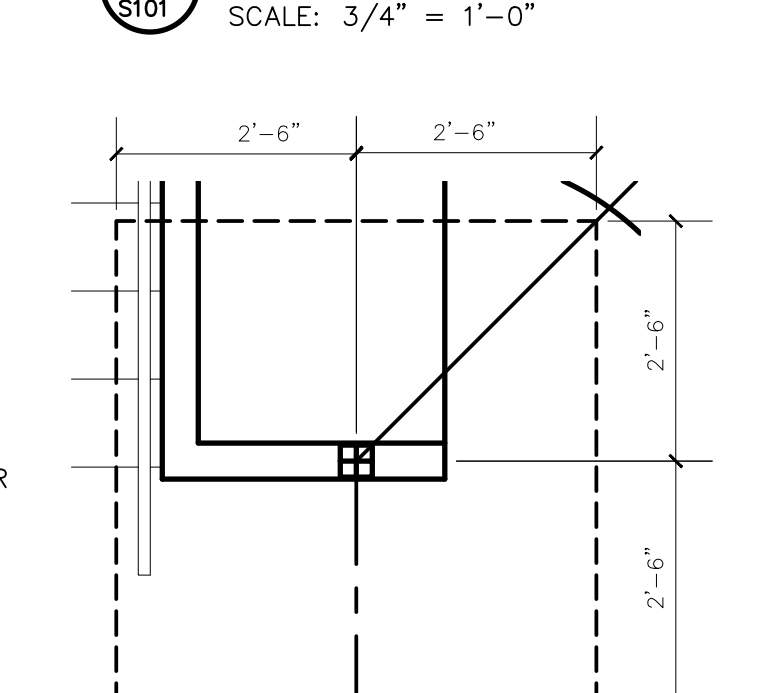
3 COLUMN F3
SCALE: 3/4" = 1'-0"



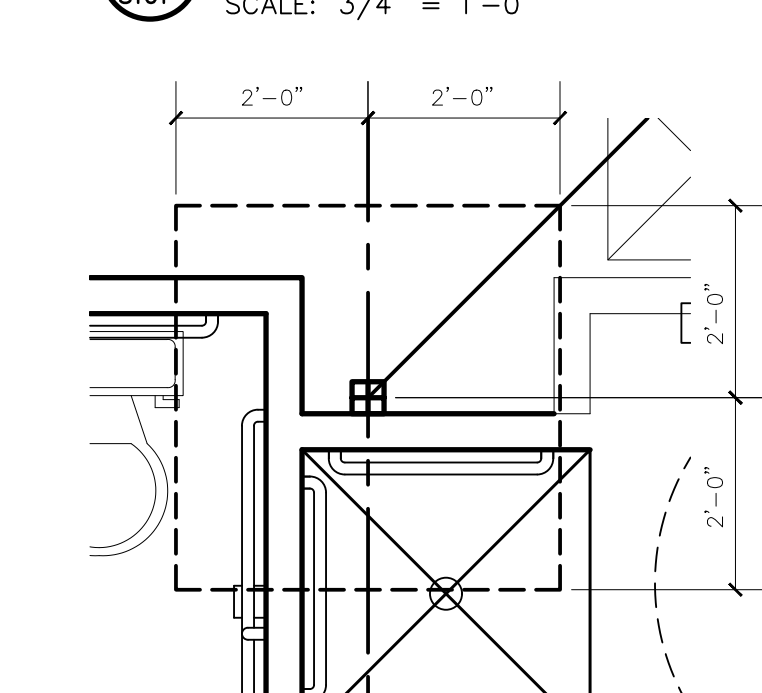
4 COLUMN F2
SCALE: 3/4" = 1'-0"



5 COLUMN F1
SCALE: 3/4" = 1'-0"



6 COLUMN F5
SCALE: 3/4" = 1'-0"



7 COLUMN F4
SCALE: 3/4" = 1'-0"

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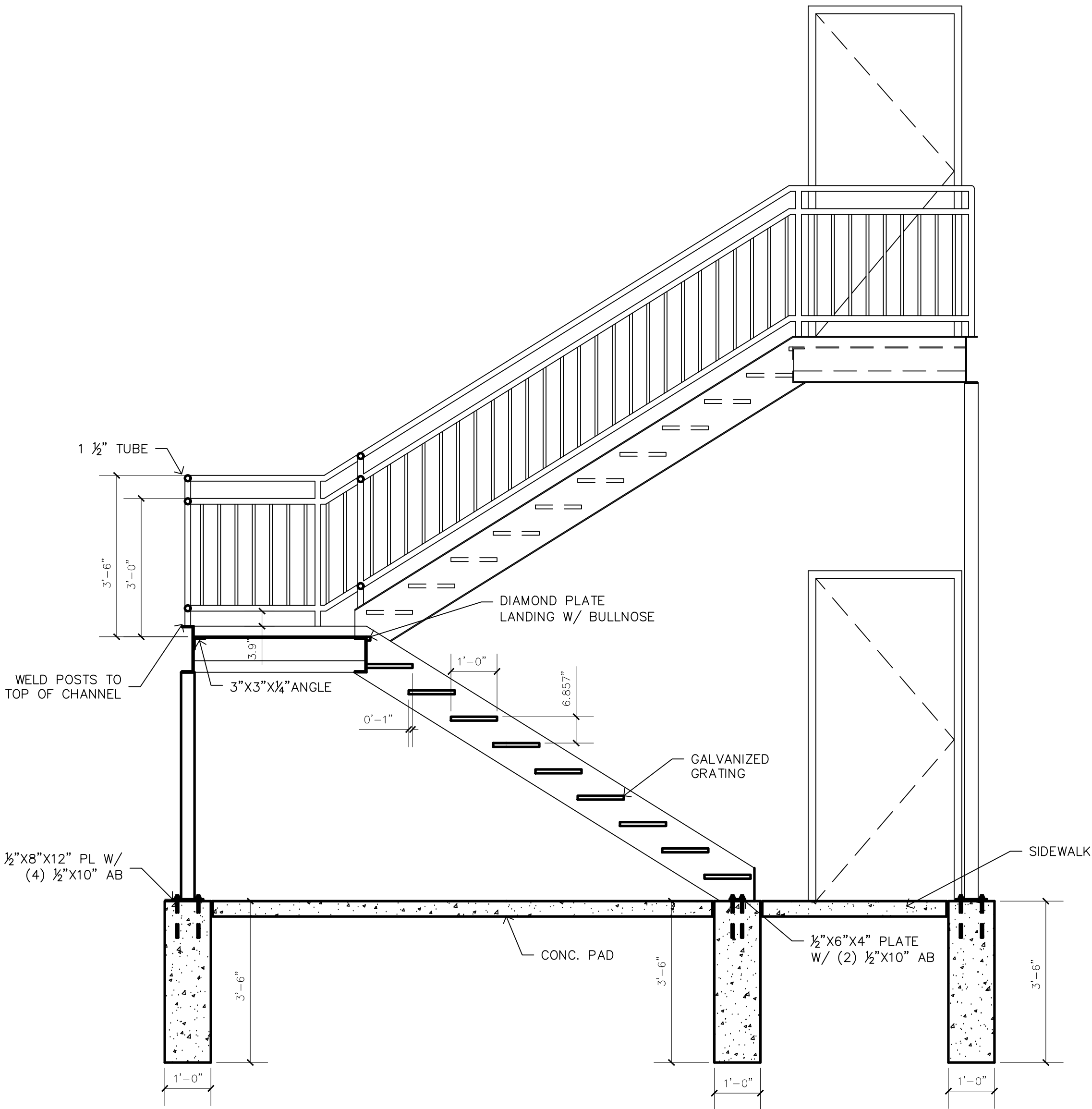
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STRUCTURAL
FLOOR PLAN

S101

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1
A001 STAIR SECTION
SCALE: 1/2" = 1'-0"

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MATERIAL
SPECIFICATION

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A001

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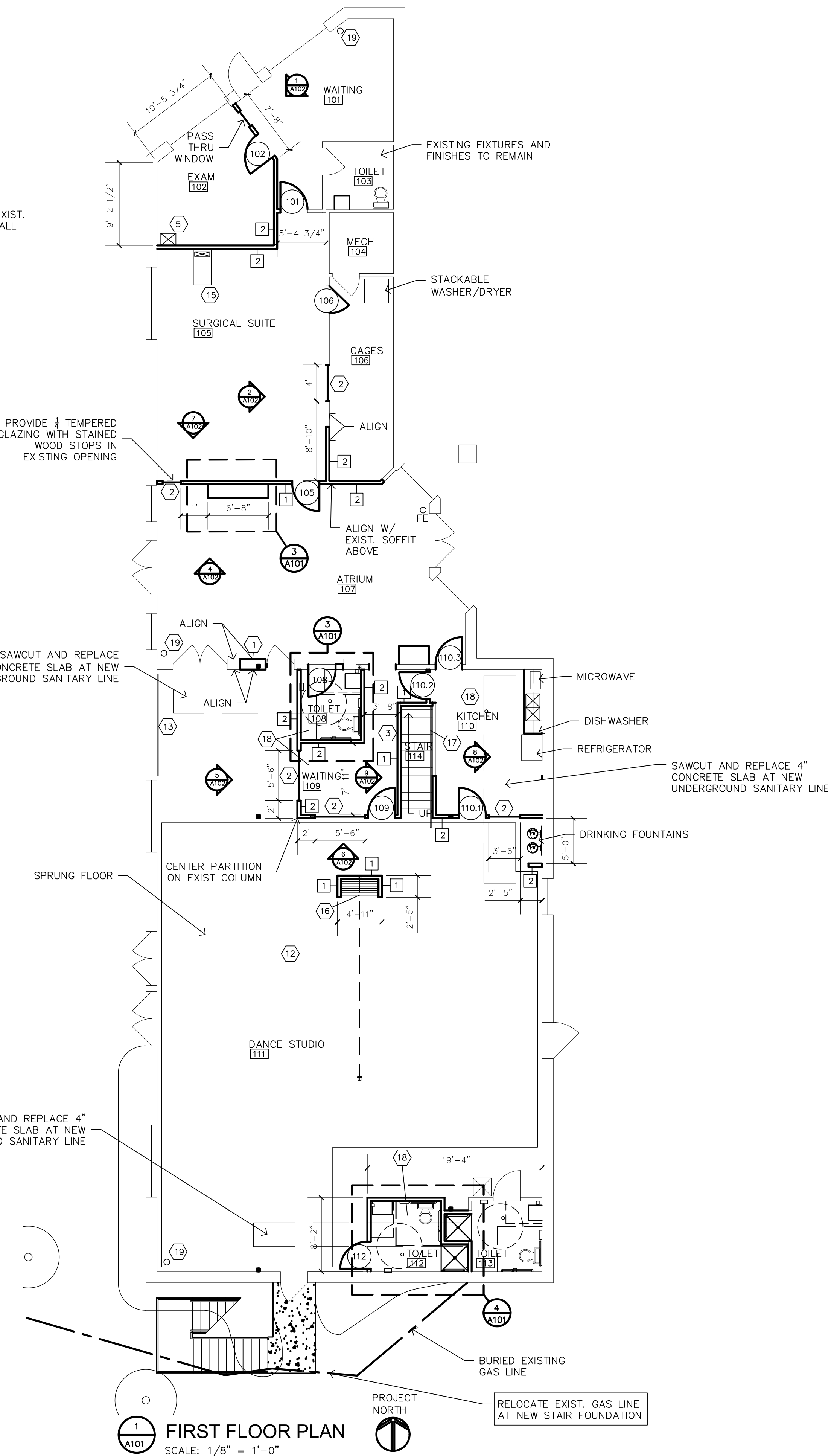
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A101

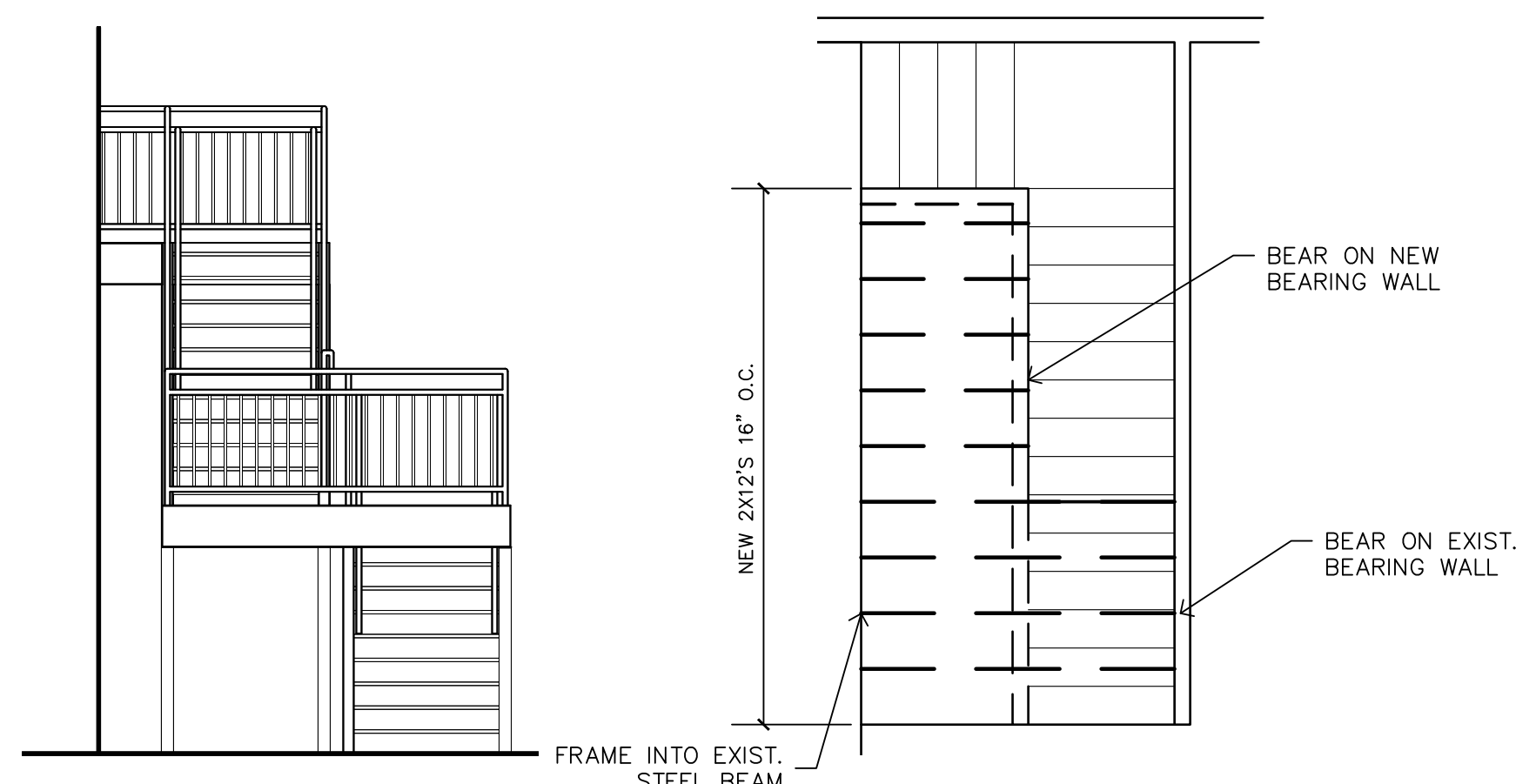
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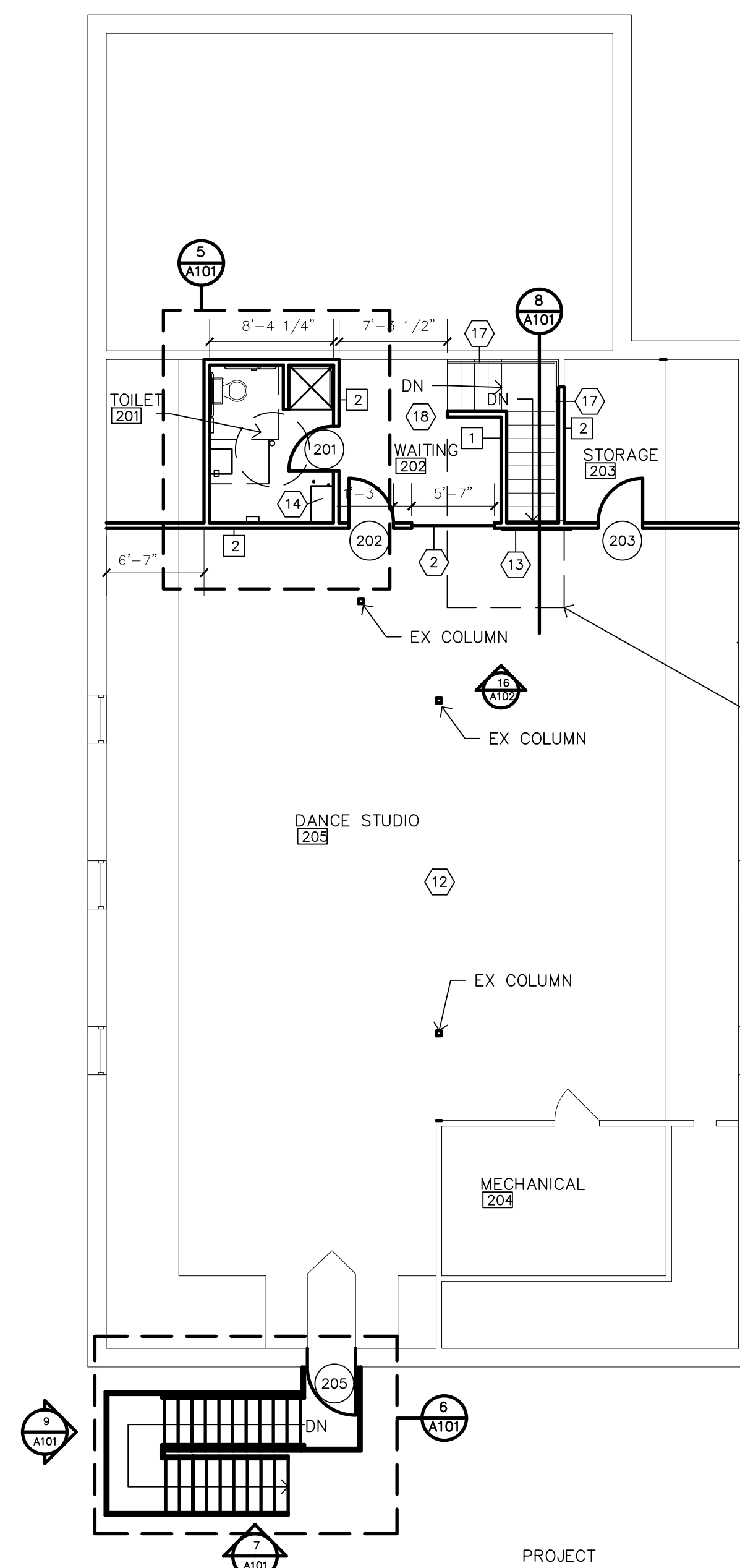
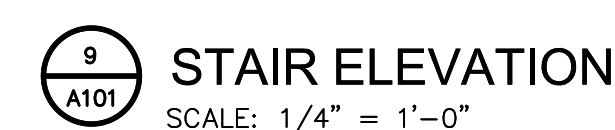
1) FIRST FLOOR PLAN
SCALE: 1/8" = 1' 0"

NOTES

1. PROVIDE FINISHED FLOOR FINISH TO MATCH EXISTING ADJACENT FLOORING IN AREAS OF NEW CONCRETE SLAB
2. DETERMINE LOCATION OF UNDERGROUND SANITARY IN FIELD
3. DETERMINE EXACT LOCATION OF BURIED GAS LINE PRIOR TO EXCAVATION
4. DOOR THRESHOLDS TO BE RAISED TO ACCOMMODATE SPRUNG FLOOR
5. SPRUNG FLOOR TO BE PROPRIETARY PRODUCT SELECTED BY OWNER. PROVIDE UNIT PRICE IN PROPOSAL

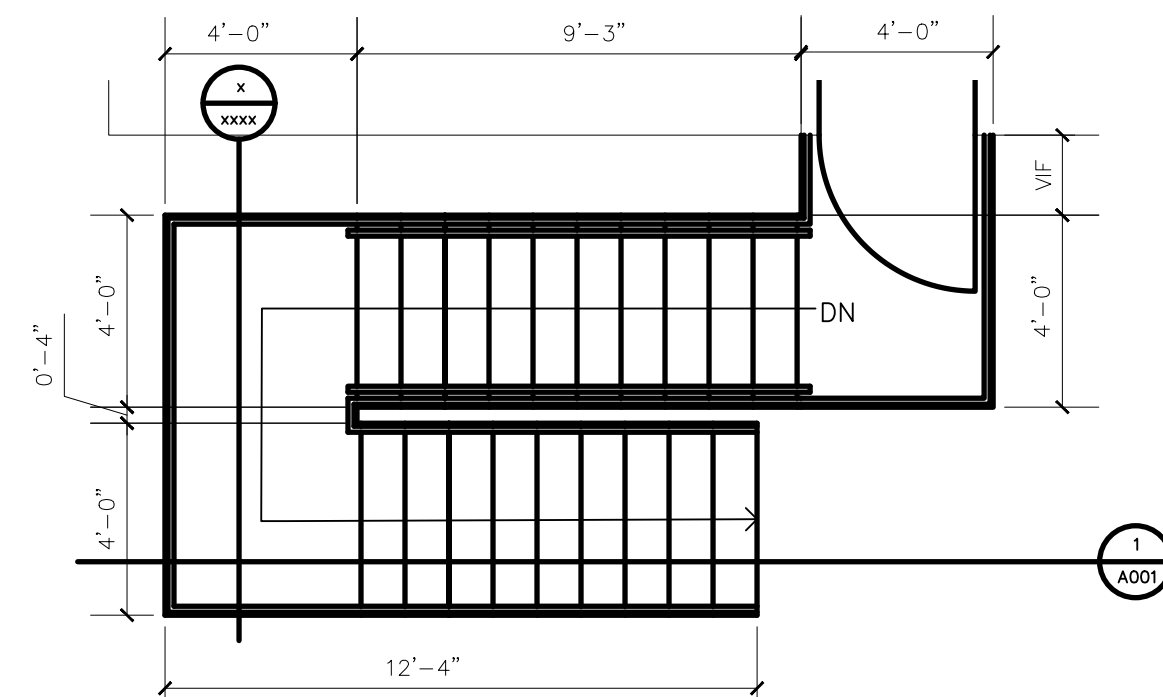


INTERIOR STAIR FRAMING PLAN



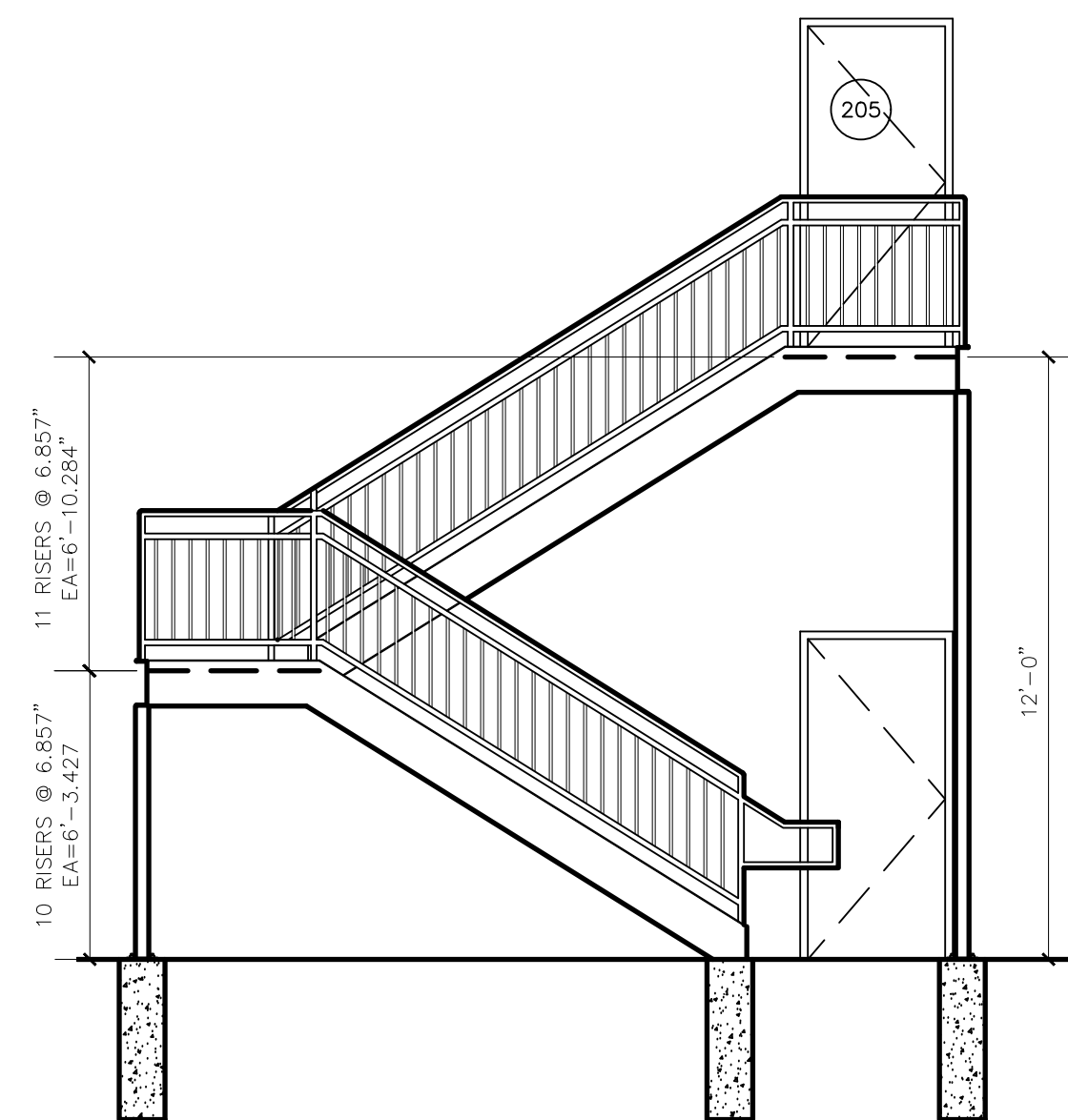
SECOND FLOOR PLAN
SCALE: 1/8" = 1' 0"

PROJECT
NORTH



L.S. EXTERIOR STAIR 203
SCALE: 1/4" = 1' 0"

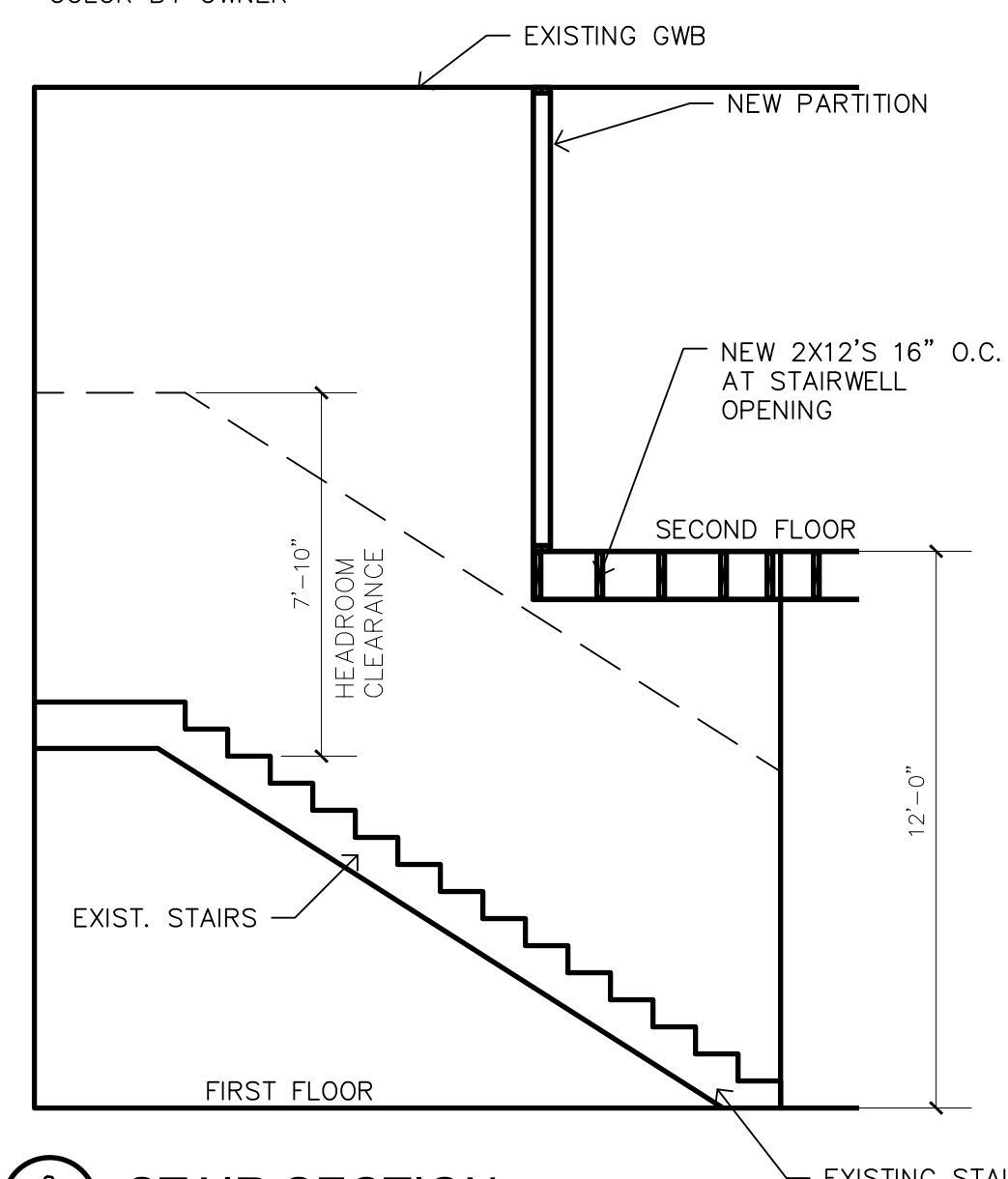
SCALE: 1/4" = 1'-0"



EXTERIOR STAIR ELEVATION

SCALE: 1/4" = 1'-0"

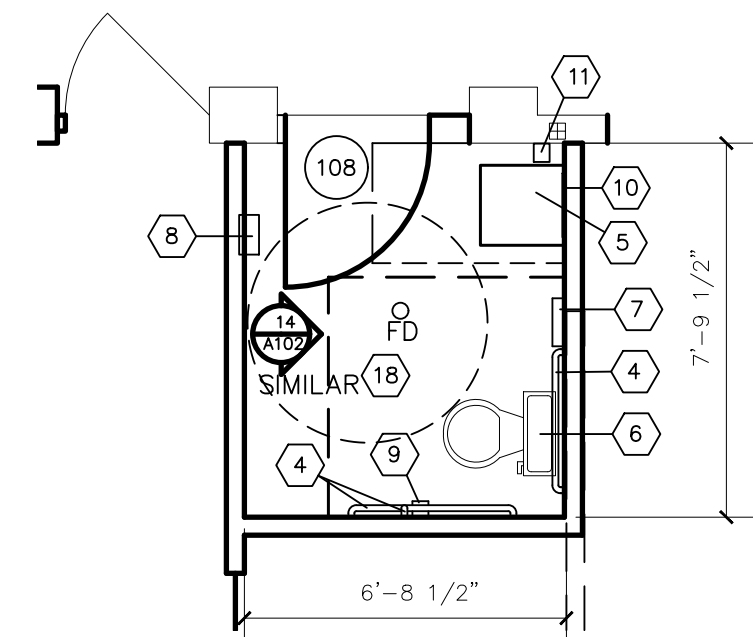
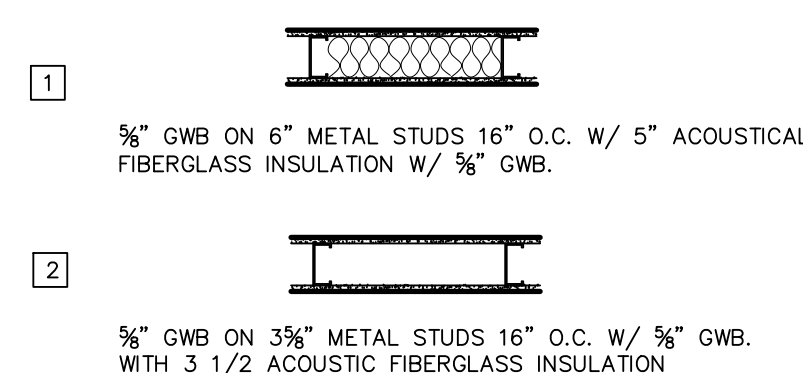
NOTE: ALL EXTERIOR STEEL TO BE GALVANIZED. ALL
STRINGERS AND RAILS TO BE POWDER COATED
COLOR BY OWNER



STAIR SECTION
SCALE: 1/4" = 1'-0"

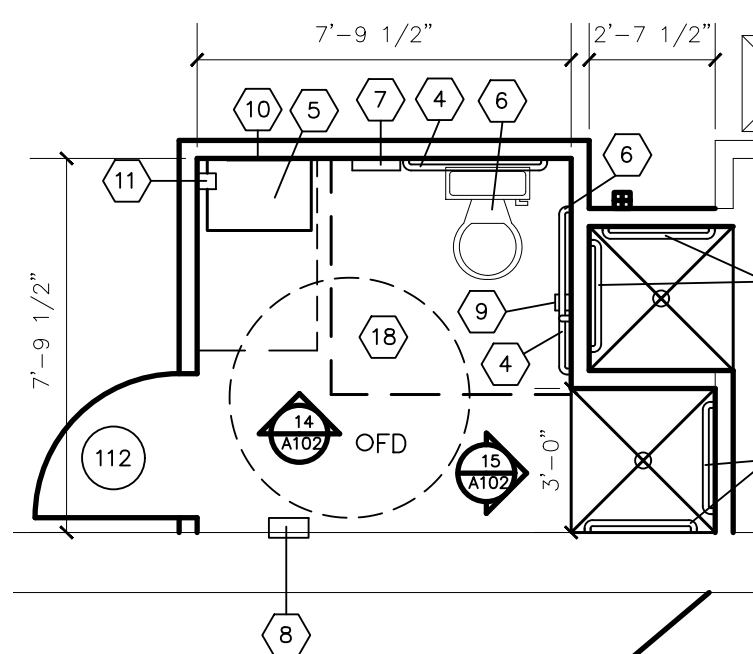
SCALE: $1/4" = 1'-0"$

WALL TYPES



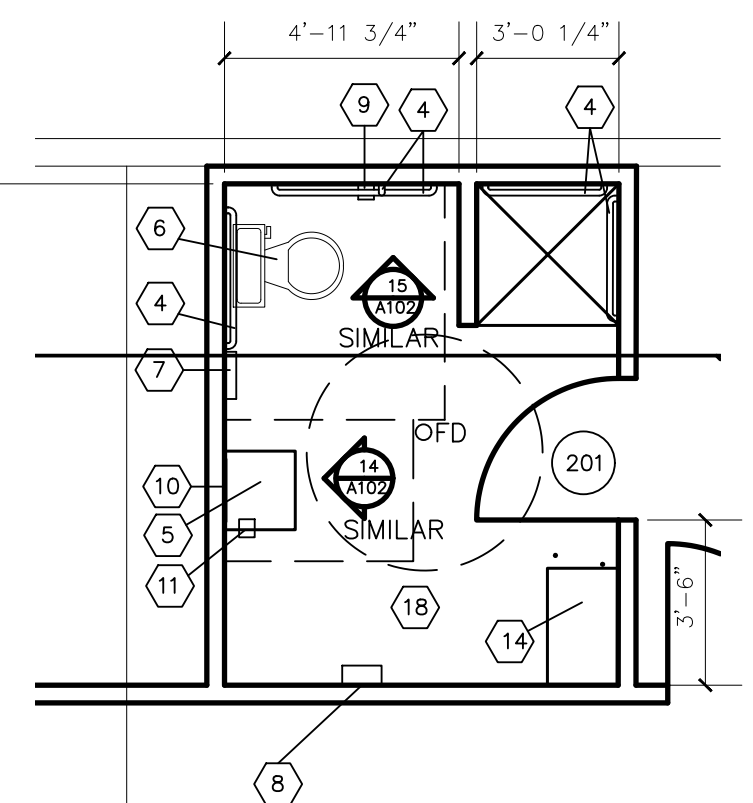
3
A101 L.S. PLAN TOILET 108

SCALE: 1/4" = 1'-0"



4
A101 L.S. PLAN TOILET 112
SCALE: 1/4" = 1'-0"

SCALE: 1/4" = 1'-0"



5
A101

L.S. PLAN TOILET 201

SCALE: 1/4" = 1' 0"

SCALE: $1/4" = 1'-0"$

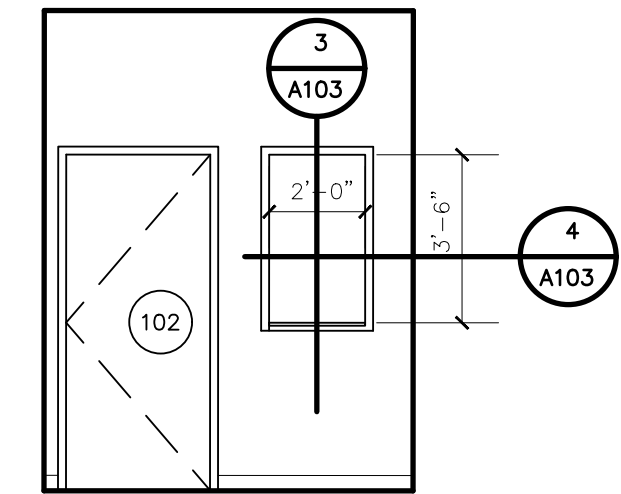
KEYNOTES

1. PROVIDE INFILL CONSTRUCTION TO MATCH ADJACENT
2. **J** TEMPERED GLAZING IN WOOD FRAME WITH WOOD STOPS
3. EXTEND PARTITION TO UNDERSIDE OF FLOOR JOISTS
4. GRAB BAR
5. LAVATORY
6. TOILET
7. FEMININE NAPKIN DISPOSAL
8. PAPER TOWEL DISPENSER
9. TOILET PAPER DISPENSER
10. MIRROR
11. SOAP DISPENSER
12. SPRUNG FLOOR
13. WALL HUNG TEMPERED MIRROR
14. LINEN CABINET
15. DENTAL EQUIPMENT AND UNIT SUPPLIED BY OWNER AND INSTALLED BY GC
16. MOVABLE PARTITION
17. HANDRAIL
18. SOUND ATTENUATION INSULATION ABOVE CEILING
19. 2A:10B FIRE EXTINGUISHER

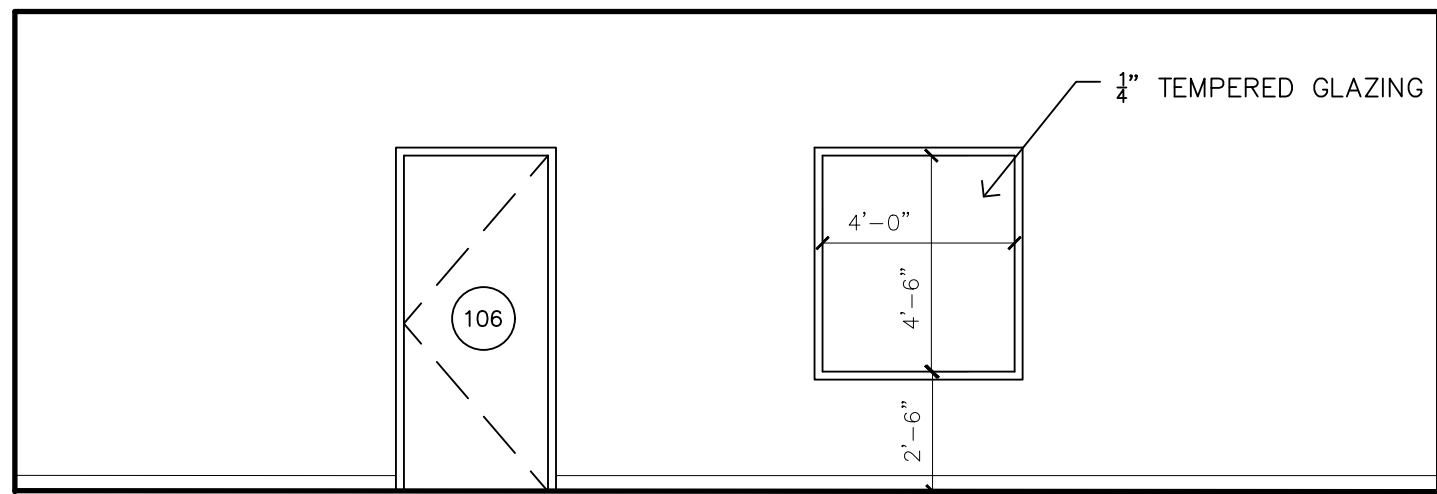
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GAS FIREPLACE AS MFRD BY SUPERIOR

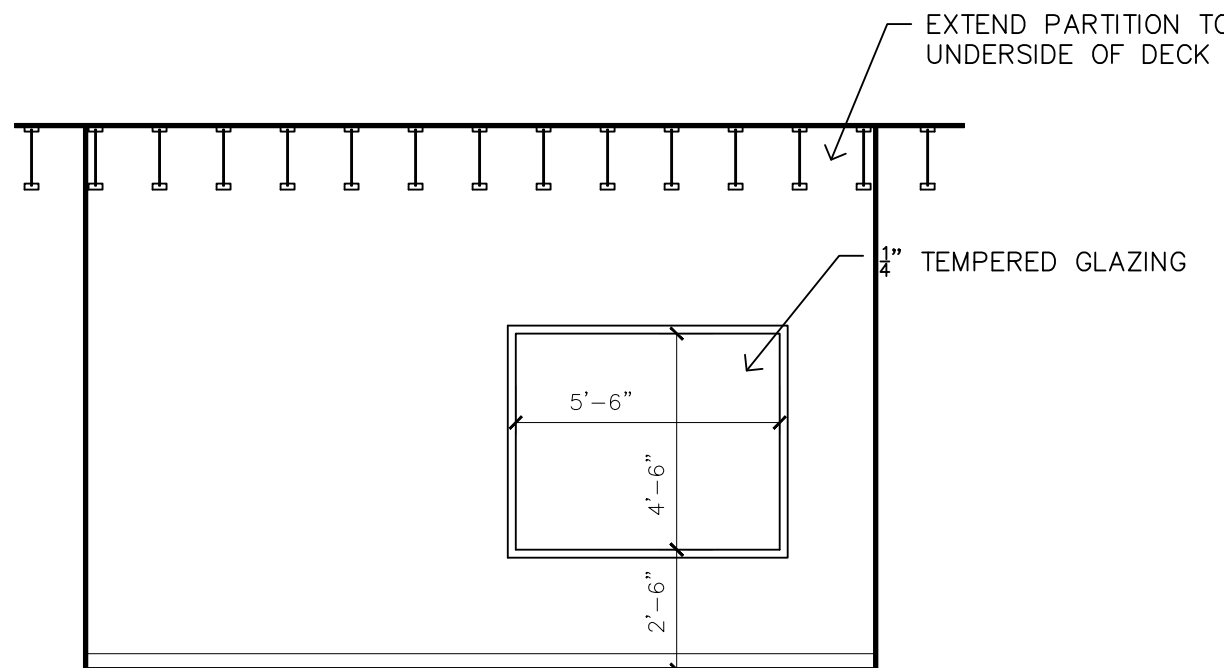
DRL 6060, 60" LONG DIRECT VENT GAS FIREPLACE. PROVIDE BLACK TRIM, RIVERROCK MEDIA, CERAMIC GLASS OPENING, HEAT CIRCULATING BLOWER, MULTI FUNCTION REMOTE, ELECTRONIC IGNITION, INTEGRATED TILE STOPS. BLACK PORCELAIN LINER, FLOOR LIGHTING, 20 YR. WARRANTY VERIFY W/ MANUFACTURER ALL REQUIRED FRAMING CLEARANCES, GAS, AND ELECTRIC SUPPLY AND EXHAUST REQUIREMENTS.



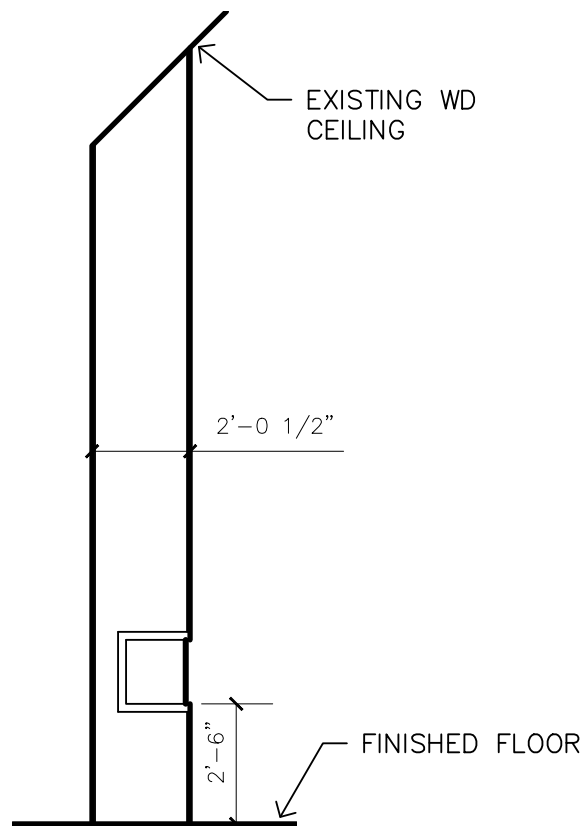
1 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



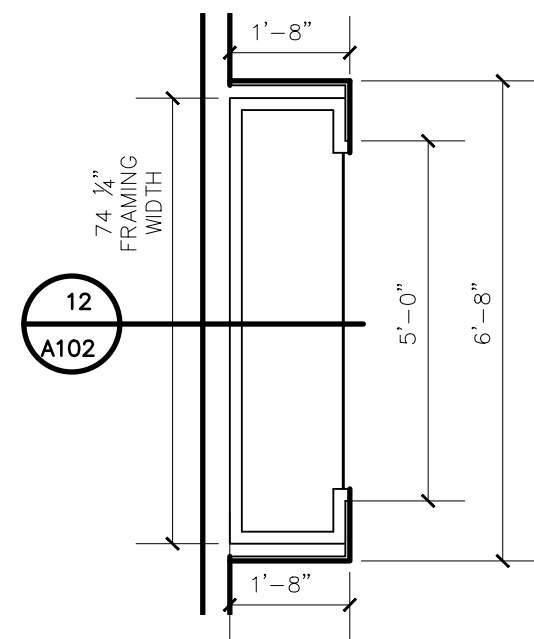
2 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



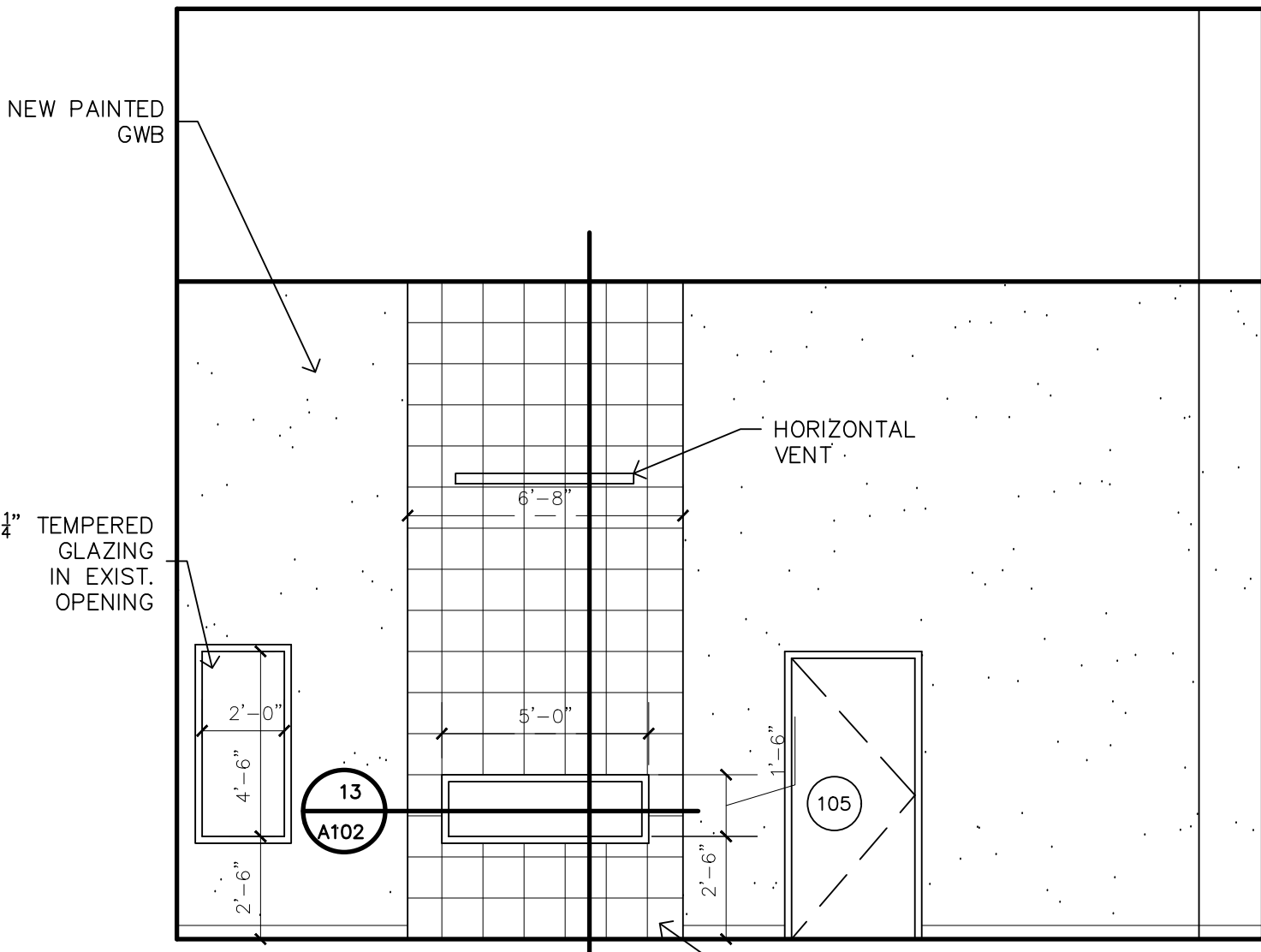
5 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



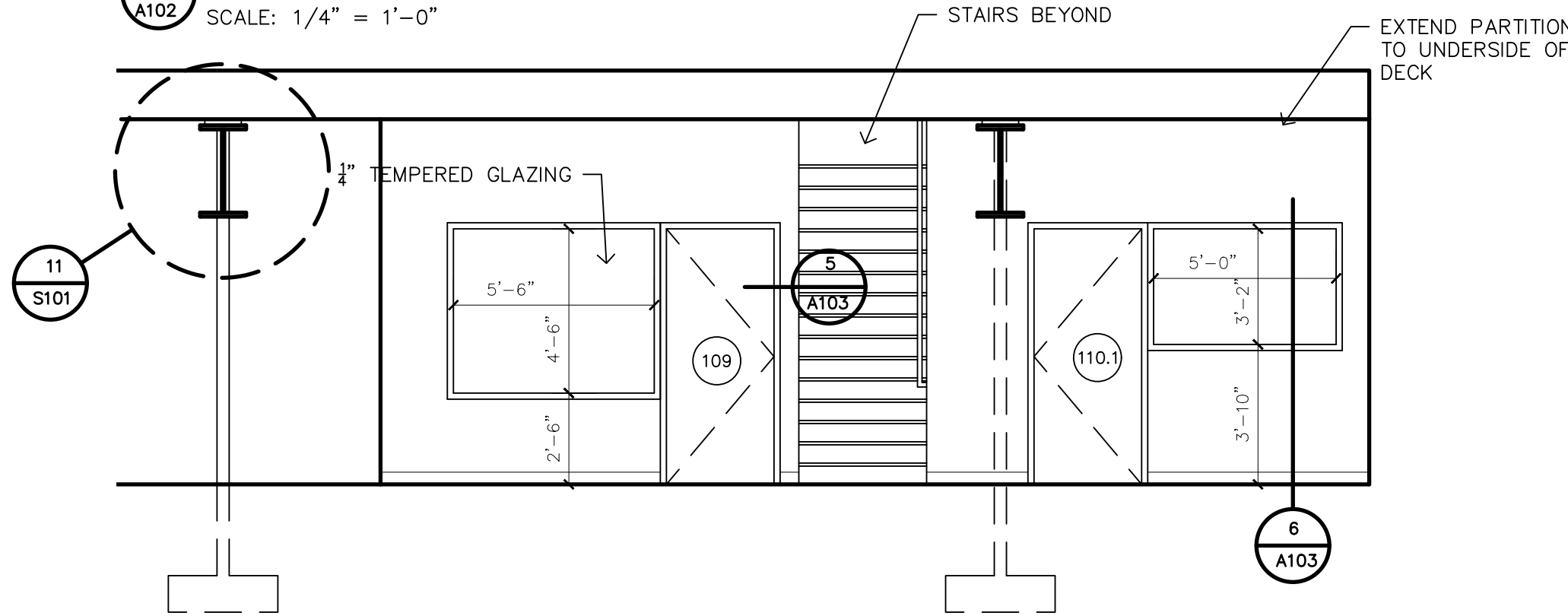
12 FIREPLACE SECTION
SCALE: 1/4" = 1'-0"



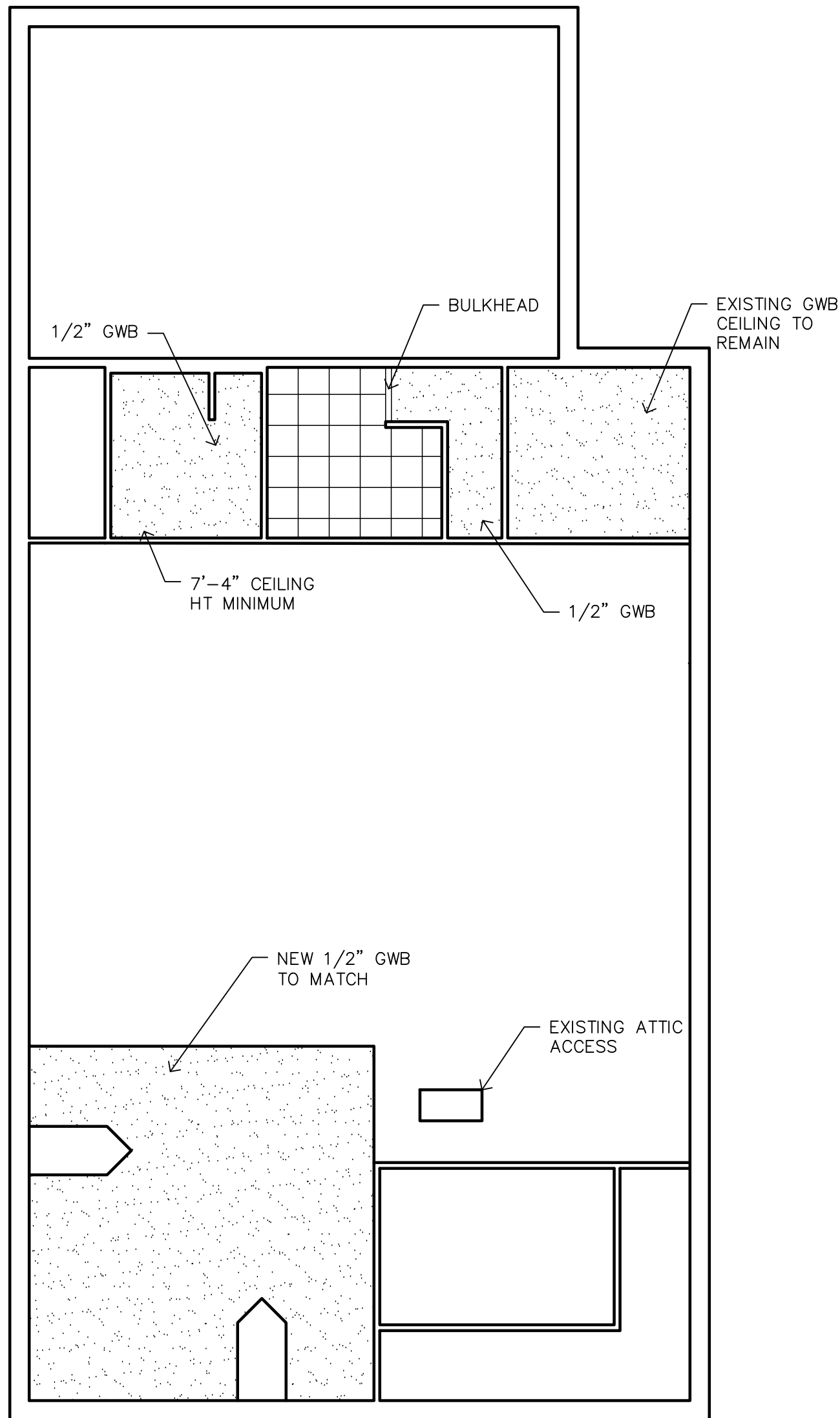
13 FIREPLACE PLAN
SCALE: 3/8" = 1'-0"



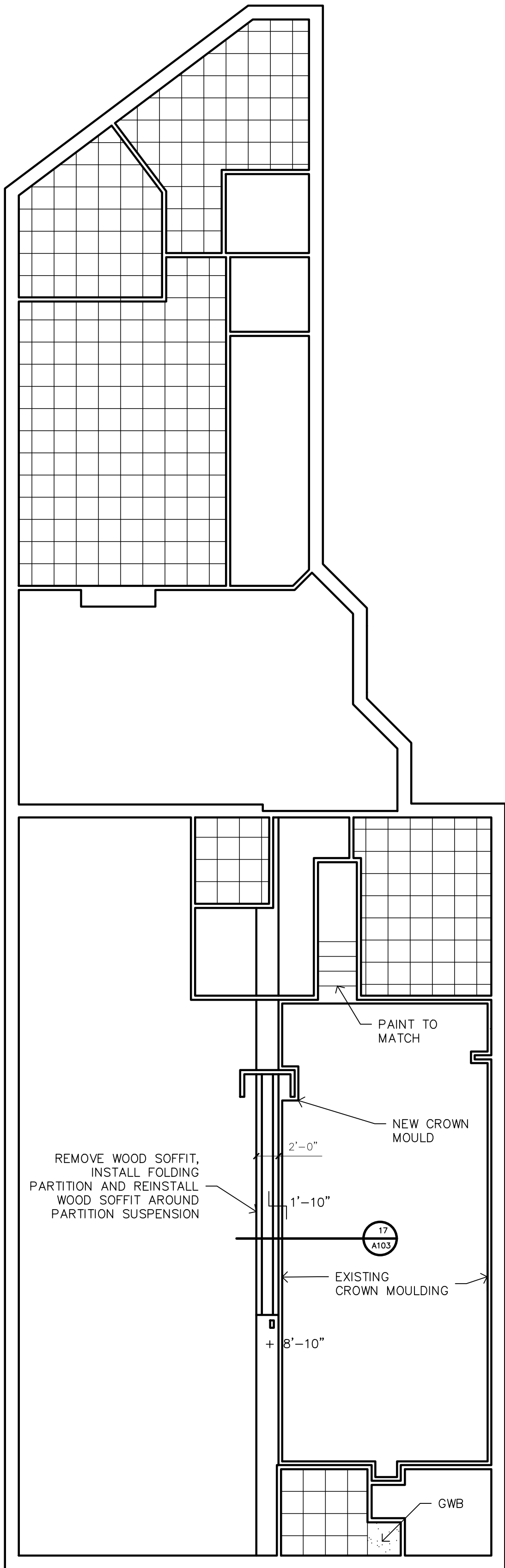
4 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



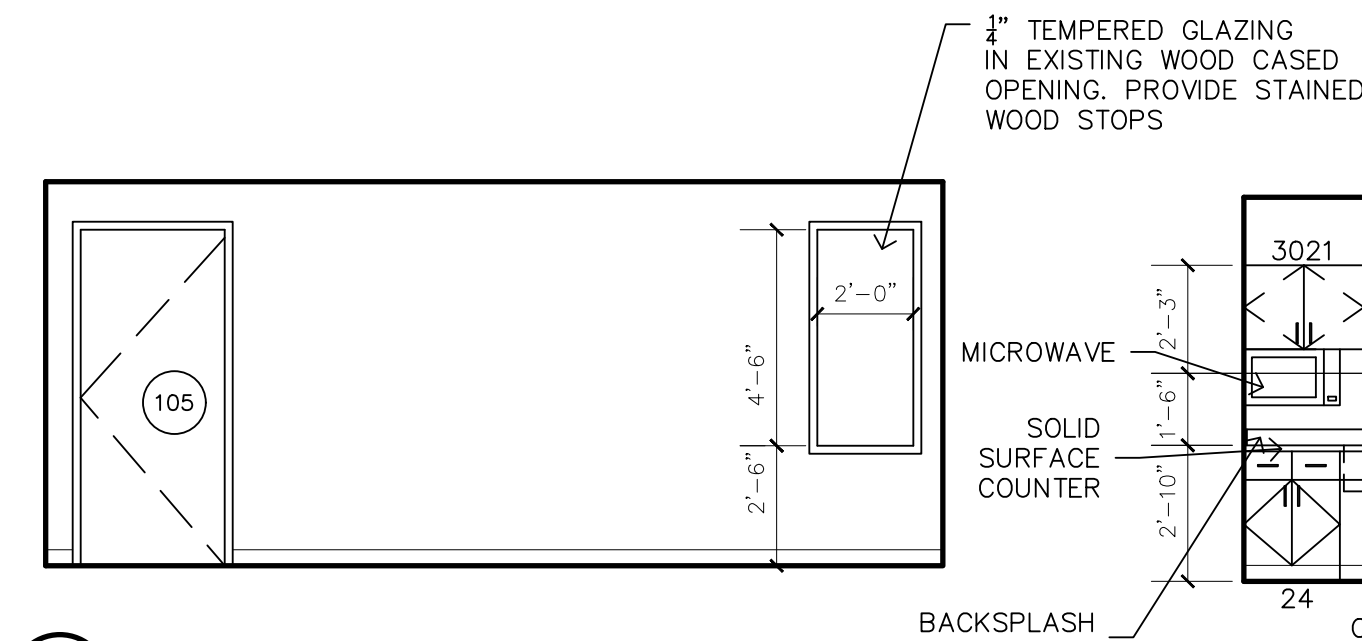
6 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



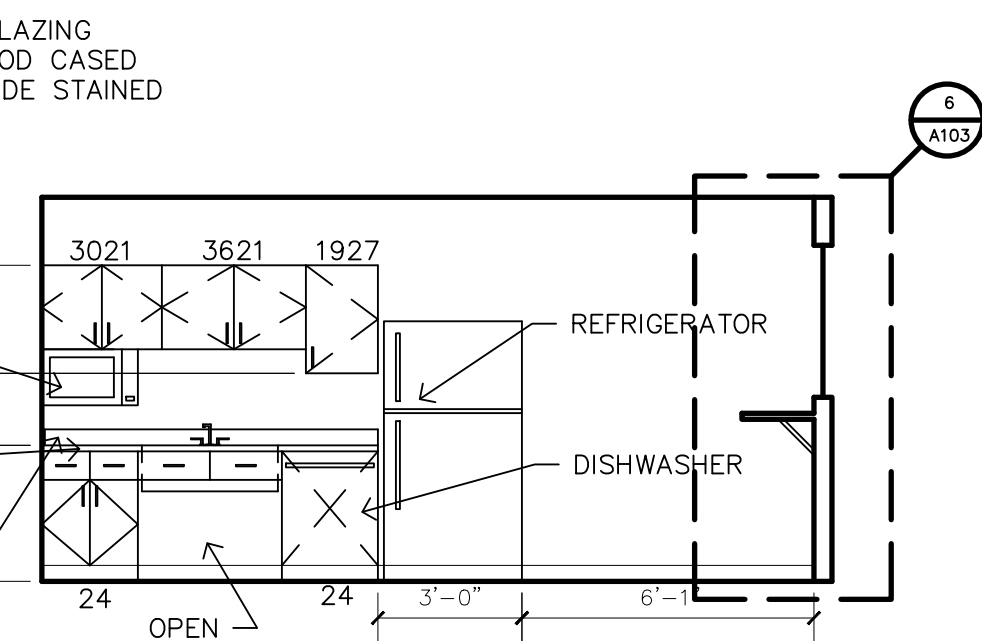
10 REF CEILING PLAN
SCALE: 1/8" = 1'-0"



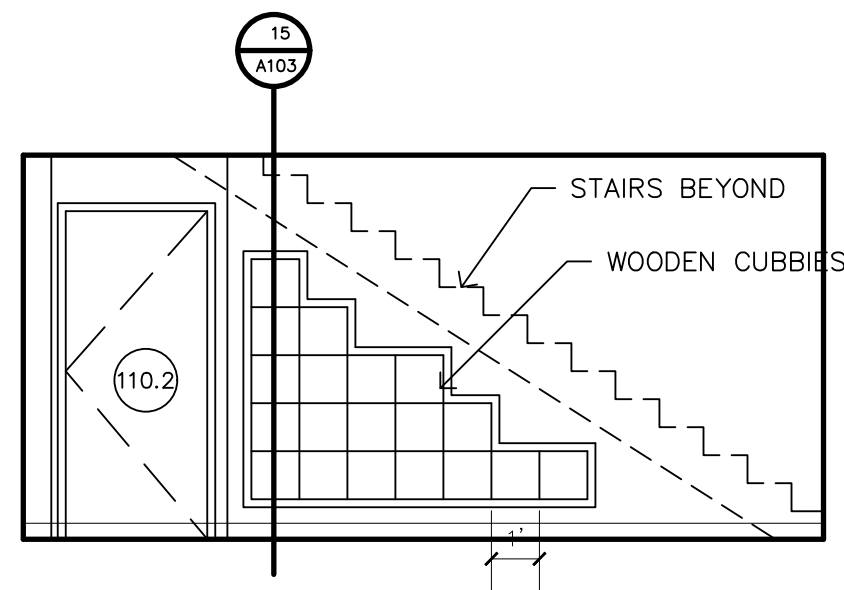
11 REF CEILING PLAN
SCALE: 1/8" = 1'-0"



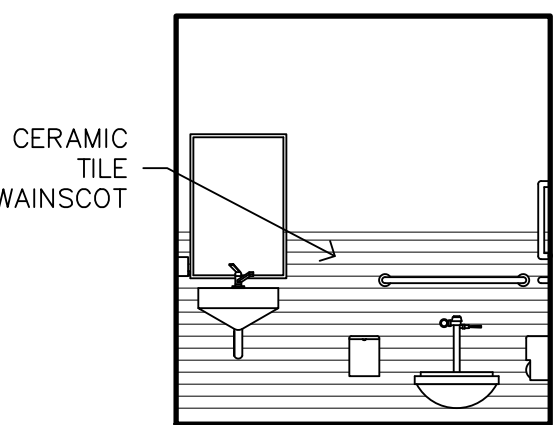
7 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



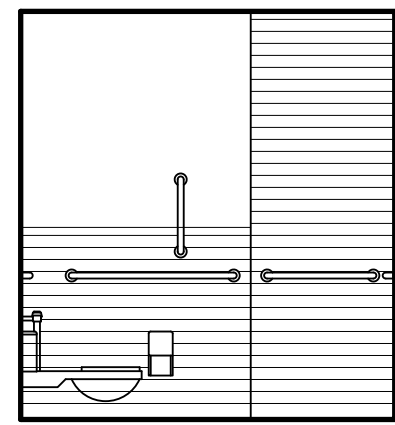
8 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



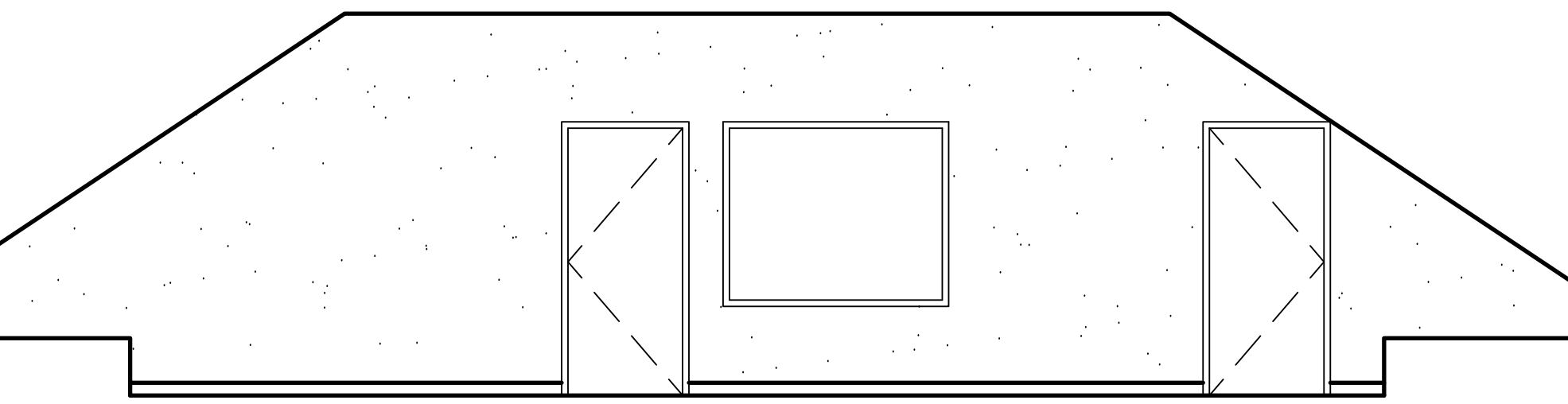
9 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



14 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



15 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



15 INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"

NOTES

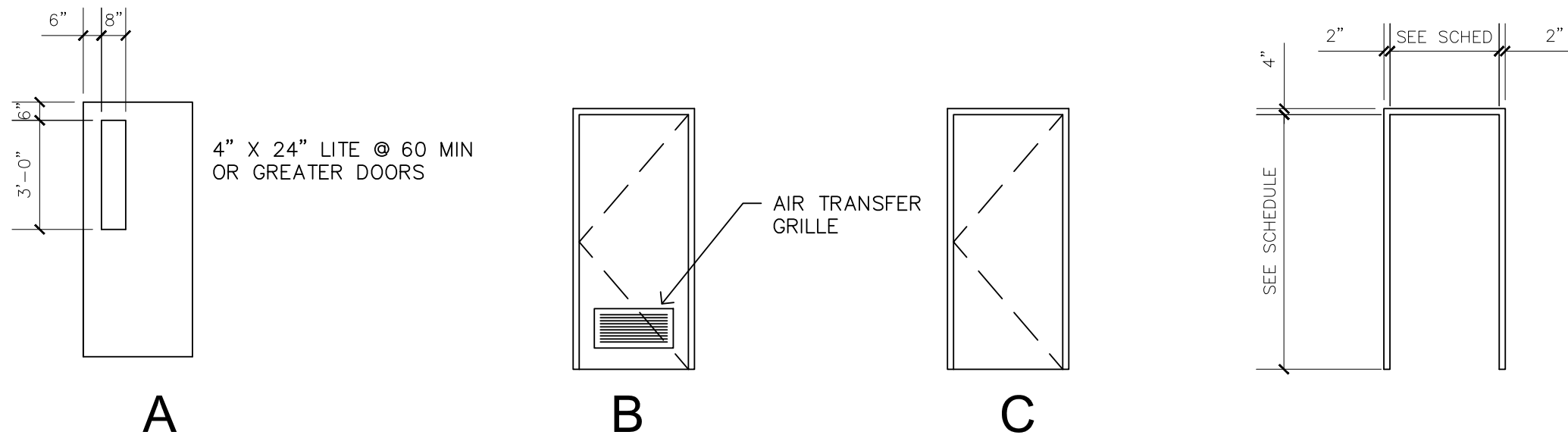
1. PATCH AND PAINT ALL EXISTING DRYWALL DAMAGED BY CONSTRUCTION
2. MATCH CASING AND BASE PROFILE, SPECIES, COLOR AND FINISH



REFLECTED CEILING,
AND INTERIOR
ELEVATIONS

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VERIFY ALL DIMENSIONS IN FIELD

[illegible][illegible][illegible]

DOOR TYPES

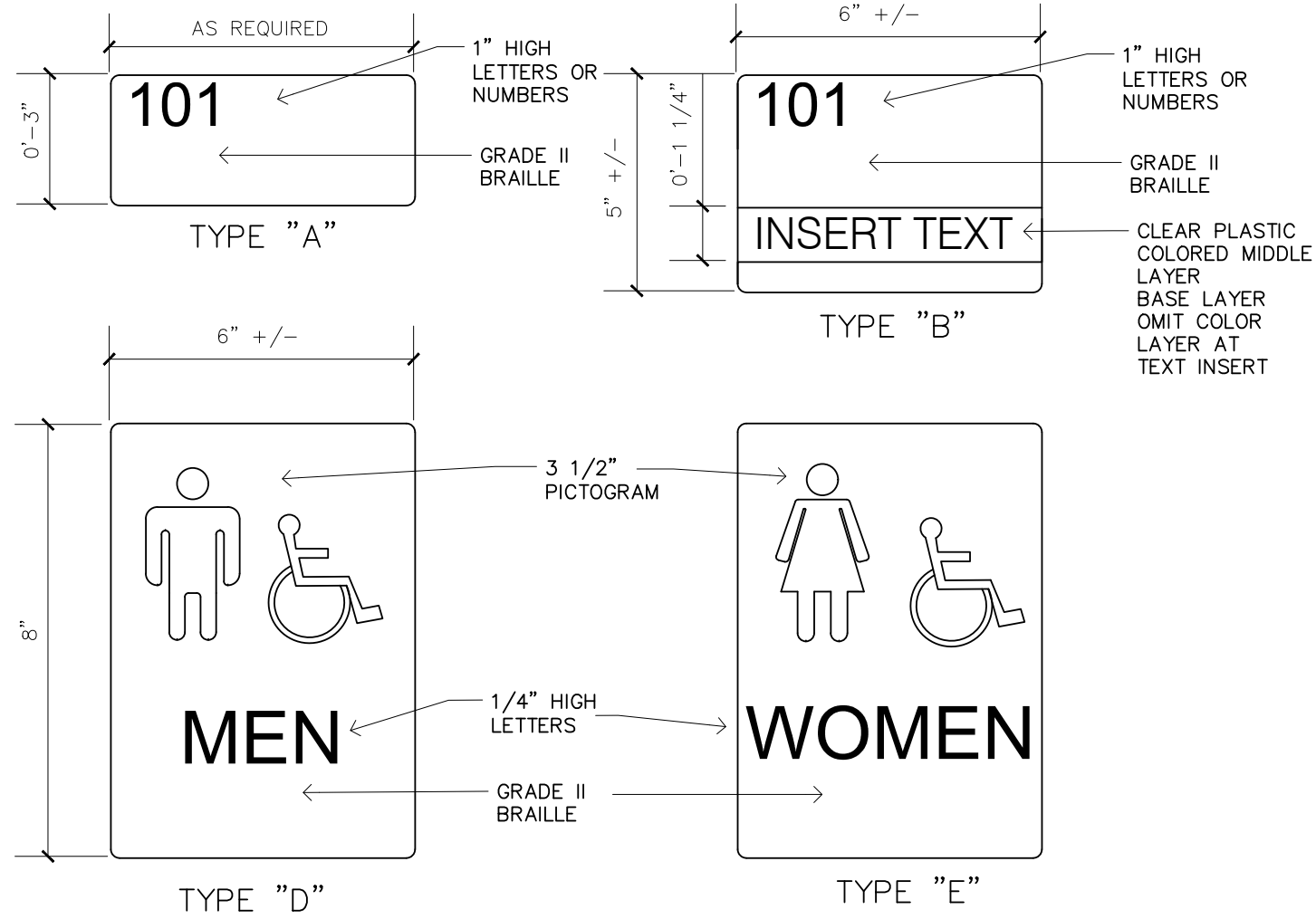
SCALE: $1/4" = 1'-0"$

ALL WINDOW GLAZING TO BE TEMPERED

**PRELIMINARY NOT TO BE USED FOR CONSTRUCTION
VERIFY ALL DIMENSIONS IN FIELD**

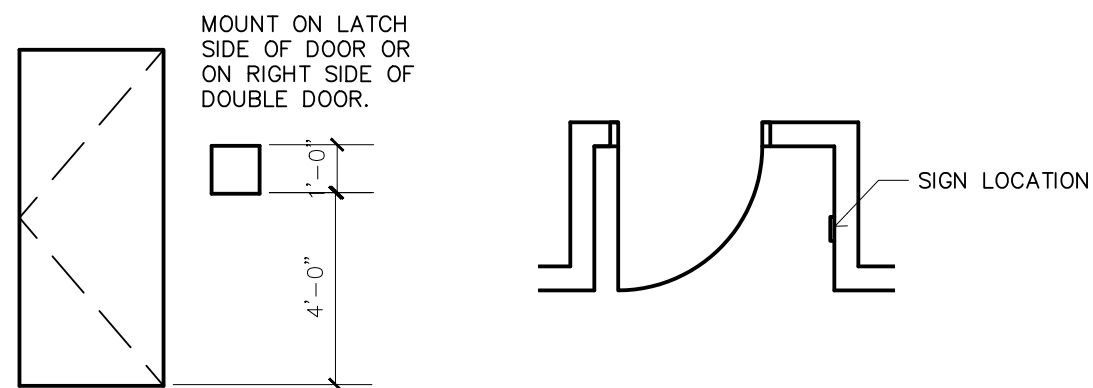
NOTES

1. PROVIDE DENS SHIELD BOARD BEHIND ALL TILE APPLICATIONS.
2. PROVIDE WATER RESISTANT GREEN BOARD AT ALL BATHROOM APPLICATIONS.



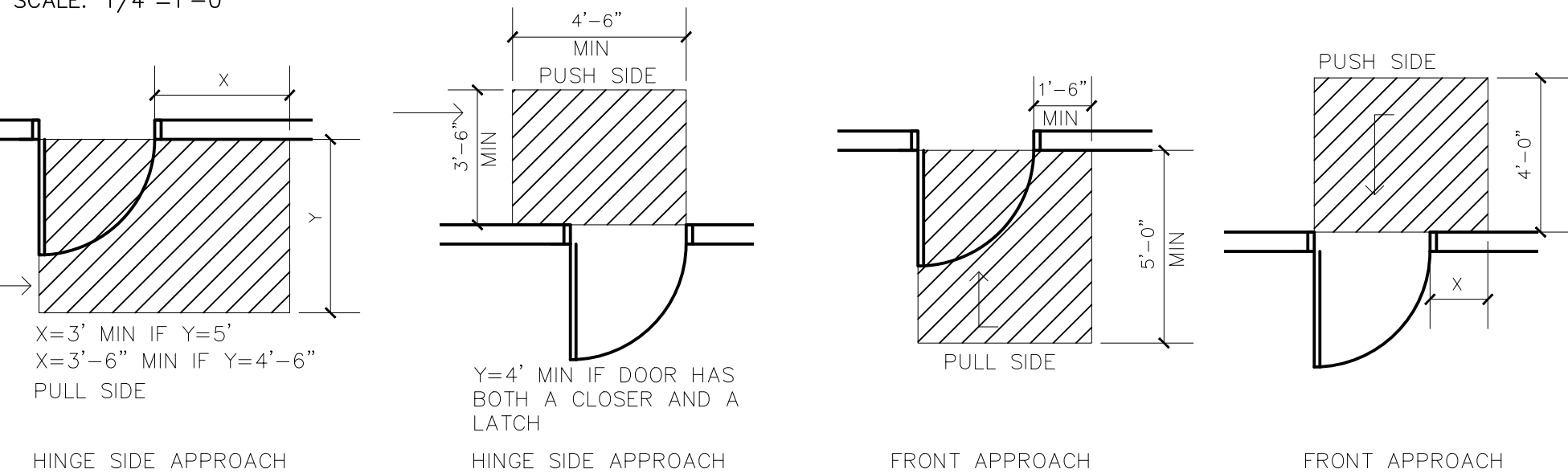
1. SIGN MATERIAL SHALL BE MAPLE AS MANUFACTURED AND SUPPLIED BY MODA: 248-306-0677.
2. LETTERS SHALL BE RAISED $\frac{3}{32}$ " DIMENSIONS SHALL BE 7" H X 9.75" W.
3. PICTOGRAMS AND LETTERS SHALL BE CONTRASTING COLOR.
4. COMPLY WITH CABO/ANSI A117.1-1998 SECTION 703 SIGNAGE.
5. RESTROOM SIGNAGE TO BE MODEL SA64 BY MODA
6. ROOM ID SIGNAGE TO MODEL SA65 BY MODA

SIGNAGE



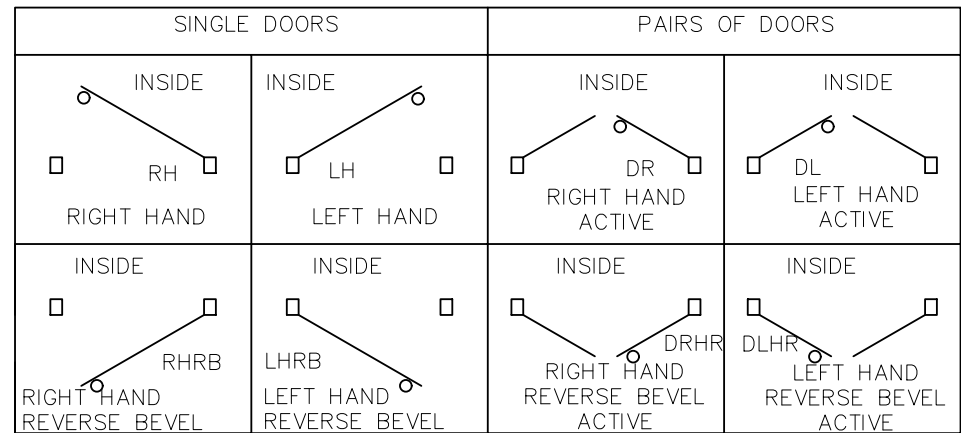
SIGN MOUNTING LOCATION

SCALE: $1/4"=1'-0"$



BARRIER FREE DOOR APPROACH

SCALE: 1/4"=1'-0"



REVISIONS

PROJECT: 2202
DATE: 5.30.22
DRAWN: JPH
CHECKED: WCH

A501

SCHEDULES

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ANIMAL FRIENDS VETERINARY HOSPITAL
INTERIOR RENOVATION
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




























A501

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A501

LEGEND

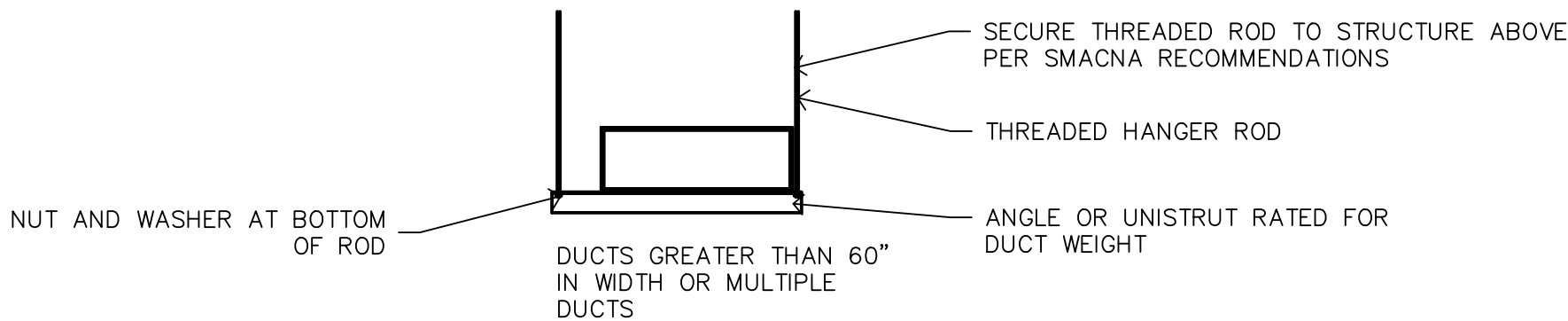
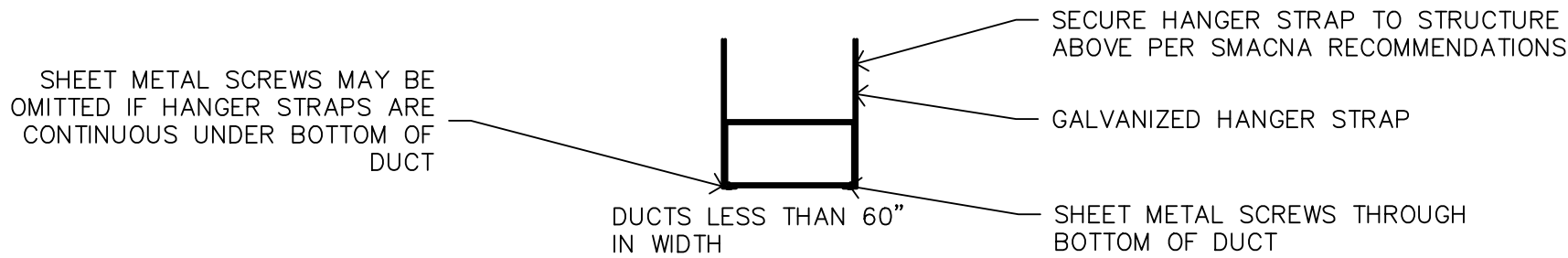
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-  GLOBE VALVE
-  BALL VALVE
-  CHECK VALVE
-  2-WAY CONTROL VALVE
-  3-WAY CONTROL VALVE
-  LUBRICATED PLUG VALVE
-  BAL. BALL VALVE W/
MEMORY STOP
-  CIRCUIT SETTER
-  PRESSURE REDUCING
VALVE
-  PRESSURE TEMP. TEST
PORT
-  PRESSURE GAUGE
-  THERMOMETER
-  EXPANSION JOINT W/
GUIDES
-  AIR VENT
-  Y-STRAINER
-  PIPE FLEXIBLE CONNECTOR
-  CONN. TO EXIST.
-  DUCT FLEXIBLE CONNECTOR
-  EXIST. FIRE DAMPER
-  NEW FIRE DAMPER
-  EXIST. SMOKE DAMPER
-  NEW SMOKE DAMPER
-  EXIST. COMB. FIRE SMOKE
DMPR
-  NEW COMB. FIRE/SMOKE
DMPR
-  MARK
CFM  SUPPLY DIFFUSER
-  RETURN GRILLE
-  EXHAUST GRILLE

MECHANICAL NOTES

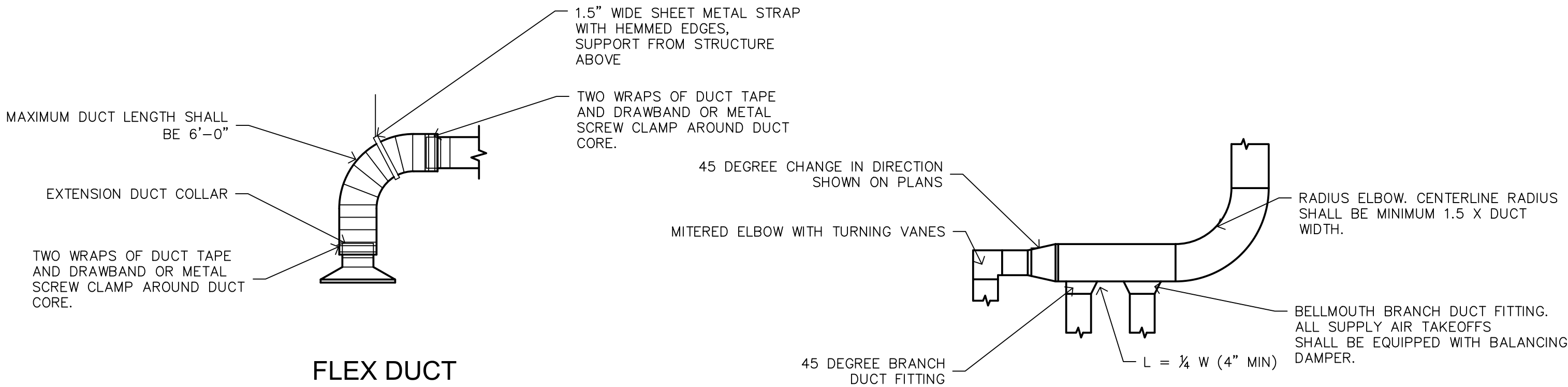
1. ALL WORK IS TO BE PROVIDED AND PERFORMED ACCORDING TO ALL STATE AND LOCAL CODES.
2. ALL EXHAUST OUTLETS AND OUTSIDE AIR INLETS SHALL BE A MINIMUM OF 15' APART.
3. EQUIPMENT NOISE SHALL NOT EXCEED 55 DECIBELS AT THE LOT LINE.
4. ALL DUCT WORK SHALL BE FABRICATED OF SHEET METAL AND IN ACCORDANCE WITH SMACNA STANDARDS.
5. ALL FLEX DUCT WORK SHALL BE THE INSULATED TYPE AND RUNS SHALL NOT EXCEED 6" MAXIMUM LENGTH. CONTRACTOR MAY USE FLEX DUCT TO CONNECT TO SUPPLY GRILLES.
6. PROVIDE MANUAL VOLUME DAMPER IN EACH BRANCH FOR BALANCING.
7. PROVIDE FIRE DAMPER WHERE THE DUCT PENETRATES THROUGH FIRE WALL.
8. RUN CONDENSATE LINE TO THE NEAREST FLOOR DRAIN.
9. CONTRACTOR TO FURNISH, LOCATE AND INSTALL THERMOSTAT FOR EACH ZONE.
10. INSTALL GAS PIPING, SIZES AS SHOWN.
11. EXISTING GAS PRESSURE TO BE VERIFIED BY THE CONTRACTOR AND SIZE GAS PIPING ACCORDINGLY.
12. DISCONNECT SWITCH SHALL BE PROVIDED WITH ALL UNITS.
13. PIPE SIZES ARE BASED ON 1/2" PRESSURE, CONTRACTOR TO FIELD VERIFY EXISTING GAS PRESSURE. VERIFY GAS PIPE SIZES, RESIZE IF NECESSARY.
14. CONTRACTOR TO PROVIDE GAS PRESSURE REGULATOR MAXITROL 325 SERIES FROM 1/2" DOWN TO 7" TO CONNECT GAS INLET OF HVAC UNITS OR AS RECOMMENDED BY THE MANUFACTURER OF THE EQUIPMENT.
15. CONTRACTOR SHALL ADD CAPACITY REQUIRED FOR ANY APPLIANCES.
16. MECHANICAL CONTRACTOR TO SIZE ALL DUCTWORK AND EQUIPMENT RELATED TO NEW HVAC SYSTEM TO PROVIDE COMPLETE SYSTEM THAT IS IN COMPLIANCE WITH ALL CODES AND REGULATIONS.
17. MECHANICAL DRAWINGS ARE SCHEMATIC ONLY. HVAC CONTRACTOR IS RESPONSIBLE TO LOCATE PATH OF NEW DUCTWORK TO OPTIMIZE SUPPLY AND RETURN.
18. NEW OUTSIDE AIR DUCT UP WITH MANUAL BALANCE DAMPER TO NEW ROOF MOUNTED ROOF VENT INSTALLED A MINIMUM OF 10' FROM ROOF EDGE AND FROM ANY PLUMBING VENT.
19. FOOD PREPARATION EXHAUST SHALL COMPLY WITH THE WAYNE COUNTY DEPARTMENT OF ENVIRONMENT.
20. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR THE NEW ROOM TEMPERATURE SENSORS AND ALL NEW CONNECTIONS TO THE THERMOSTATS.
21. MAKE UP AIR UNIT TO BE INSTALLED PER NFPA 96. PROVIDE A MINIMUM OF 10' BETWEEN SUPPLY AIR INTAKE AND EXHAUST DISCHARGE. EXHAUST MUST BE A MINIMUM OF 24" ABOVE THE ROOF DECK.
22. PROVIDE DUCT DETECTORS AS REQUIRED BY CODE

EXHAUST FAN SCHEDULE							
TYPE	MANUFACTURER	CATALOG NO.	CFM	EST E.S.P.	VOLTS/ PHASE	MOTOR	ACCESSORIES
EF-1	COOK	GC144	75	0.5	120/1	98W	DM, GBD, CG, RC, HK
CG	WHITE ALUMINUM CEILING GRILLE		GK	GREASE TERMINATION KIT			
DM	DISCONNECT MEANS		HG	HINGED BASE			
GBD	GRAVITY BACKDRAFT DAMPER		RC	18" INSULATED ROOF CURB			
VSC	VARIABLE SPEED CONTROLLER		HK	HANGING KIT WITH VIBRATION INSULATOR			

GRILLES, REGISTERS AND DIFFUSERS SCHEDULE									
TYPE	MANUFACTURER	CATALOG NO.	APP	FINISH	FRAME TYPE	VOLUME DAMPER	MAX NC (DB)	MIN THROW (FT)	MAX THROW (FT)
A	TITUS		SUP	WHITE	T-BAR/ FLANGE	YES	30	8	24
B	TITUS		RET	WHITE	T-BAR/ FLANGE	NO	30	-	-
C	TITUS		SUP	WHITE	FLANGE	NO	30	23	60
EX1	EXHAUST		RET	RETURN				SUP	SUPPLY
1	THROWS ARE BASED ON 50 FEET PER MINUTE VELOCITY								
2	OPPOSED BLADE DAMPERS SHALL BE PROVIDED ON ALL DIFFUSERS REQUIRING BOLLUME DAMPERS								
3	PROVIDE T-BAR OR FLANGE FRAME AS NOTED BY "T" OR "F" DESIGNATION IN DIFFUSER TAG ON PLANS								

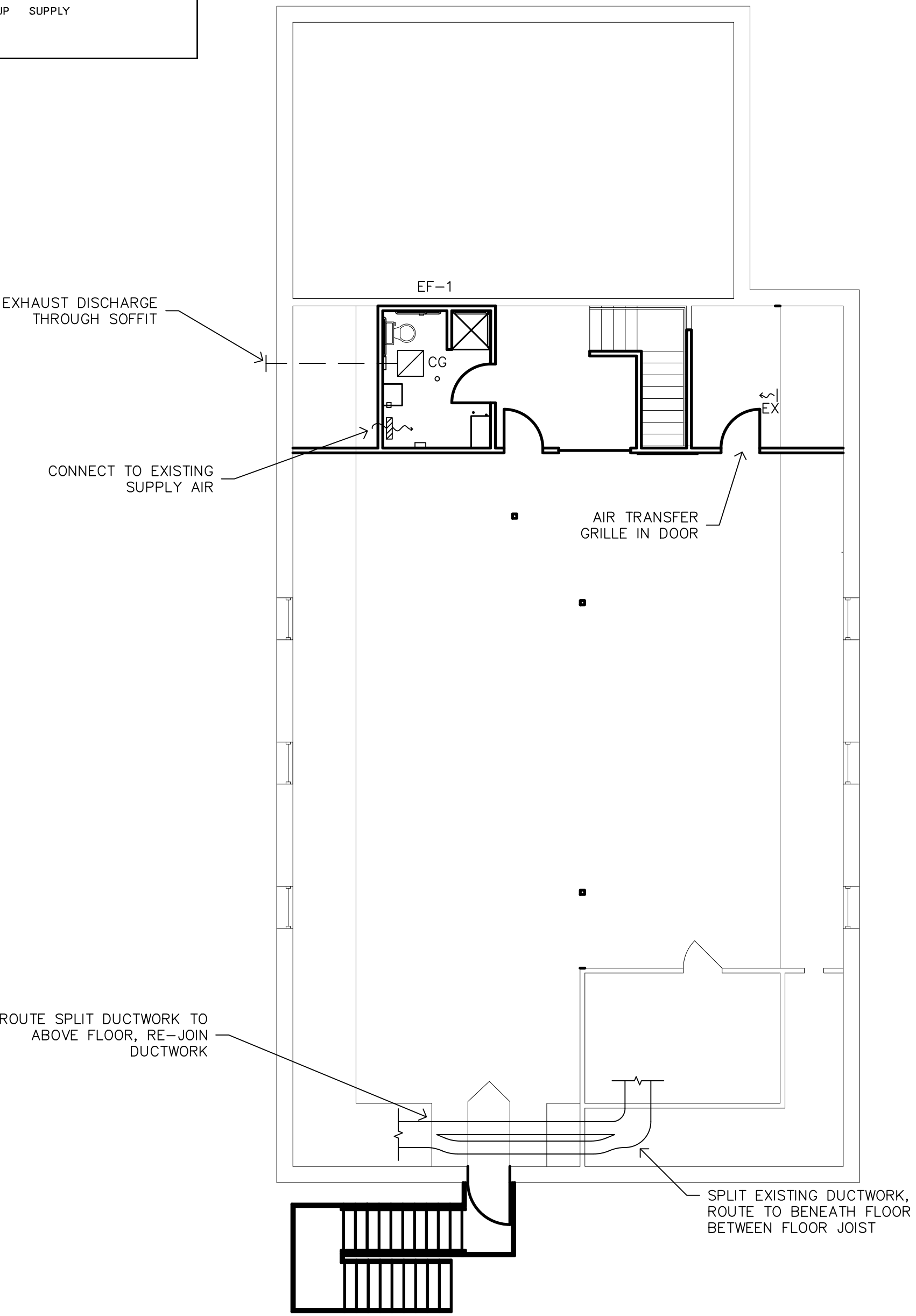


DUCTWORK
SUPPORT

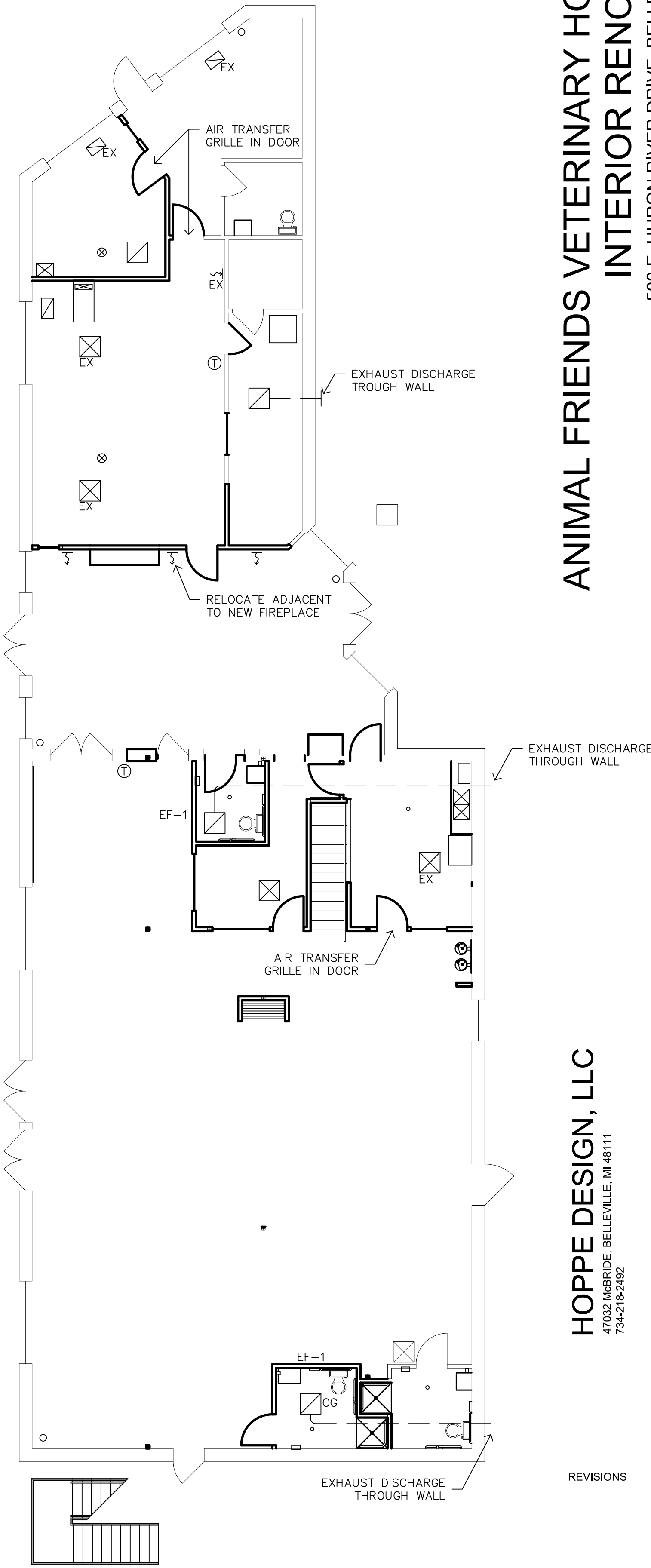


FLEX DUCT
INSTALLTION

DUCTWORK
CONSTRUCTION



1
M101
SECOND FLOOR
MECHANICAL PLAN
SCALE: 1/8" = 1'-0"



2
M101
FIRST FLOOR
MECHANICAL PLAN
SCALE: 1/8" = 1'-0"

HVAC PLAN

ANIMAL FRIENDS VETERINARY HOSPITAL
INTERIOR RENOVATION
500 E. HURON RIVER DRIVE, BELLEVILLE, MI 48111

HOPPE DESIGN, LLC
47032 MERIDIE, BELLEVILLE, MI 48111
734-216-2492

REVISIONS

PROJECT: 2202
DATE: 5.30.22
DRAWN: JPH
CHECKED: WCH

M101

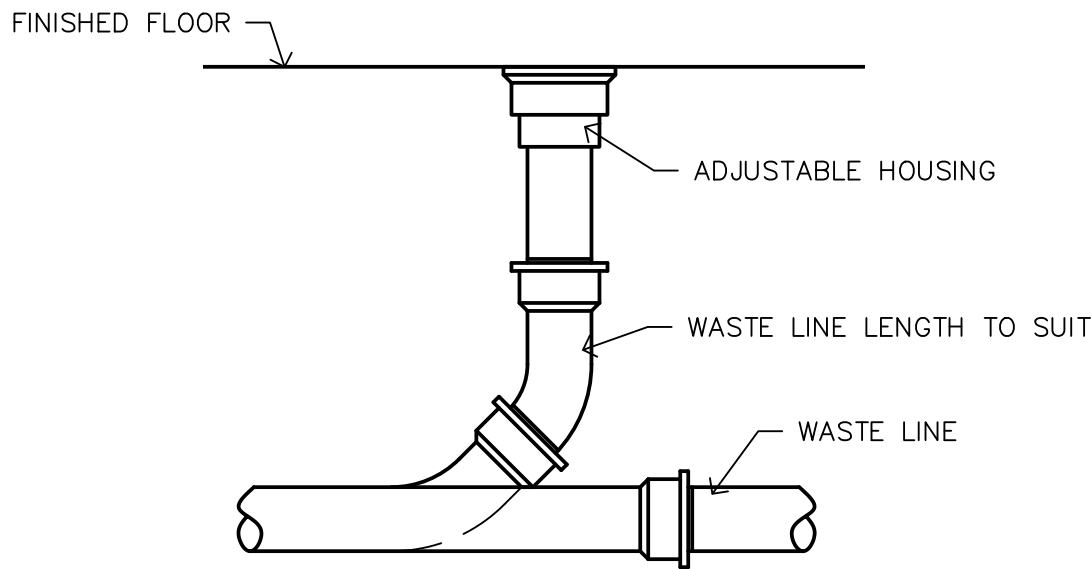
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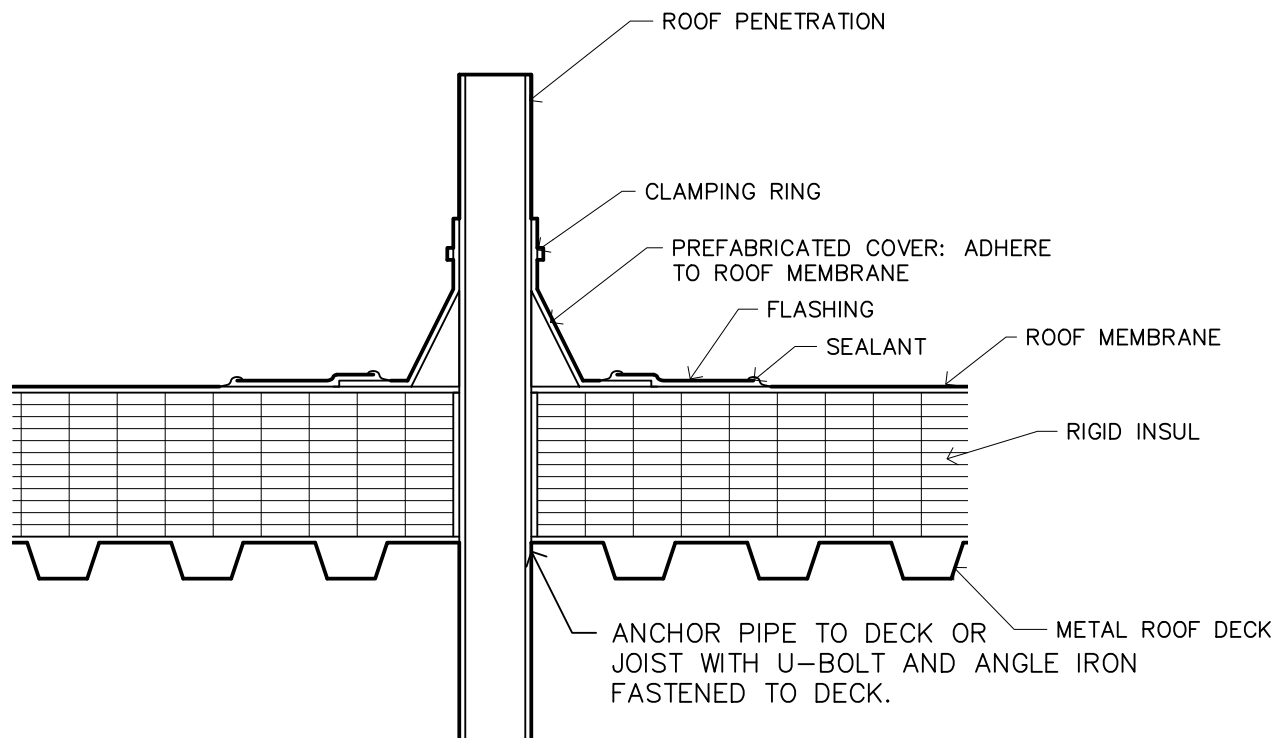
LEGEND

- GATE VALVE
- GLOBE VALVE
- BALL VALVE
- CHECK VALVE
- 2-WAY CONTROL VALVE
- 3-WAY CONTROL VALVE
- LUBRICATED PLUG VALVE
- BAL. BALL VALVE W/
MEMORY STOP
- CIRCUIT SETTER
- PRESSURE REDUCING
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- EXIST. COMB. FIRE SMOKE
DMPR
- NEW COMB. FIRE/SMOKE
DMPR
- SUPPLY DIFFUSER
- RETURN GRILLE
- EXHAUST GRILLE

PLUMBING FIXTURE SCHEDULE																
TAG	ITEM	MFR	MODEL NAME AND DESCRIPTION	FITTINGS	FLOW	WSFU'S		DFU'S		MIN PIPE CONNECTION SIZES				REMARKS	COLOR	
						C	H			W	V	CW	HW			
WC1	WATER CLOSET	KOHLER	K-8432S-L WALL HUNG ELONGATED WATER CLOSET WITH EXPOSED BATTERY SENSOR FLUSH VALVE WITH OVER-RIDE, WHITE OPEN FRONT TOILET SEAT, LESS COVER, WITH STAINLESS STEEL CHECK HINGE	K-7531 EXPOSED HYBRID TOUCHLESS BATTERY POWERED FLUSH VALVE	1.28 GPF									BARRIER FREE COMPLIANT; EXPOSED TOP SPUD CONNECTION; ZURN Z1201 SERIES CLOSET CARRIER, 500 LB SEAT CAPACITY	WHITE	
LAV-2	LAVATORY	KOHLER	K-1721 WALL HUNG SINK WITH GRD DRAIN; P-TRAP; STOP SUPPLY KIT; TRAP WRAP AND ASSE 1070 THERMOSTATIC MIXING VALVE	K-13460 TOUCHLESS FAUCET, CR-19 STOPS AND SUPPLIES, OFFSET GRID DRAIN, 17 GA C.P. P-TRAP	0.5 GPM									BARRIER FREE COMPLIANT; BARRIER FREE TRAP, TRUEBRO LAV GUARD HW INSUL. KIT, SOLID BRASS FAUCET, Z1231 LAV CARRIER WITH UPRIGHTS	WHITE	
FD-1	FLOOR DRAIN	ZURN	Z415	5" DIA. N.B. STRAINER												
SK-1	SINK	ELKAY	LRAD291085	LK024378HC FAUCET, CR-19 STOPS AND SUPPLIES, OFFSET GRID DRAIN, 17 GA C.P. P-TRAP	0.5 GPM									BARRIER FREE COMPLIANT; BARRIER FREE TRAP, TRUEBRO LAV GUARD HW INSUL. KIT, SOLID BRASS FAUCET		
CO-1	FLOOR CLEAN OUT	ZURN	ZN1400-3NH-5BZ1 cast iron cleanout with 5" round nickel bronze adjustable top up to 1-1/4 of vertical post pour adjustment, tilt correction shims and rough-in cover	Nickel Bronze top, cast iron body										2", 3", 4", 6"		
WHA	WATER HAMMER ARRESTOR	ZURN	1250	COPPER										INSTALL AS REQUIRED BY THE PLUMBING CODE		



FLOOR CLEANOUT
SCALE: 1"=1'-0"



LOCATE VTR MINIMUM OF THREE FEET FROM PROPERTY LINE, TEN FEET HORIZONTAL, OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE; ONE FOOT FROM ANY VERTICAL SURFACE. LOCATE VTR MINIMUM 15' FROM PARAPET, EXPANSION JOINT, ROOF DRAINS, ADJACENT WALLS, EQUIPMENT CURB, OR OTHER ROOF FEATURE. OFFSET IN CEILING SPACE WHERE REQUIRED TO MEET THESE CONDITIONS. INSULATE LAST 6 FEET OF VENT PIPE INSIDE BUILDING.

5
P101
SCALE: 1 1/2"=1'-0"

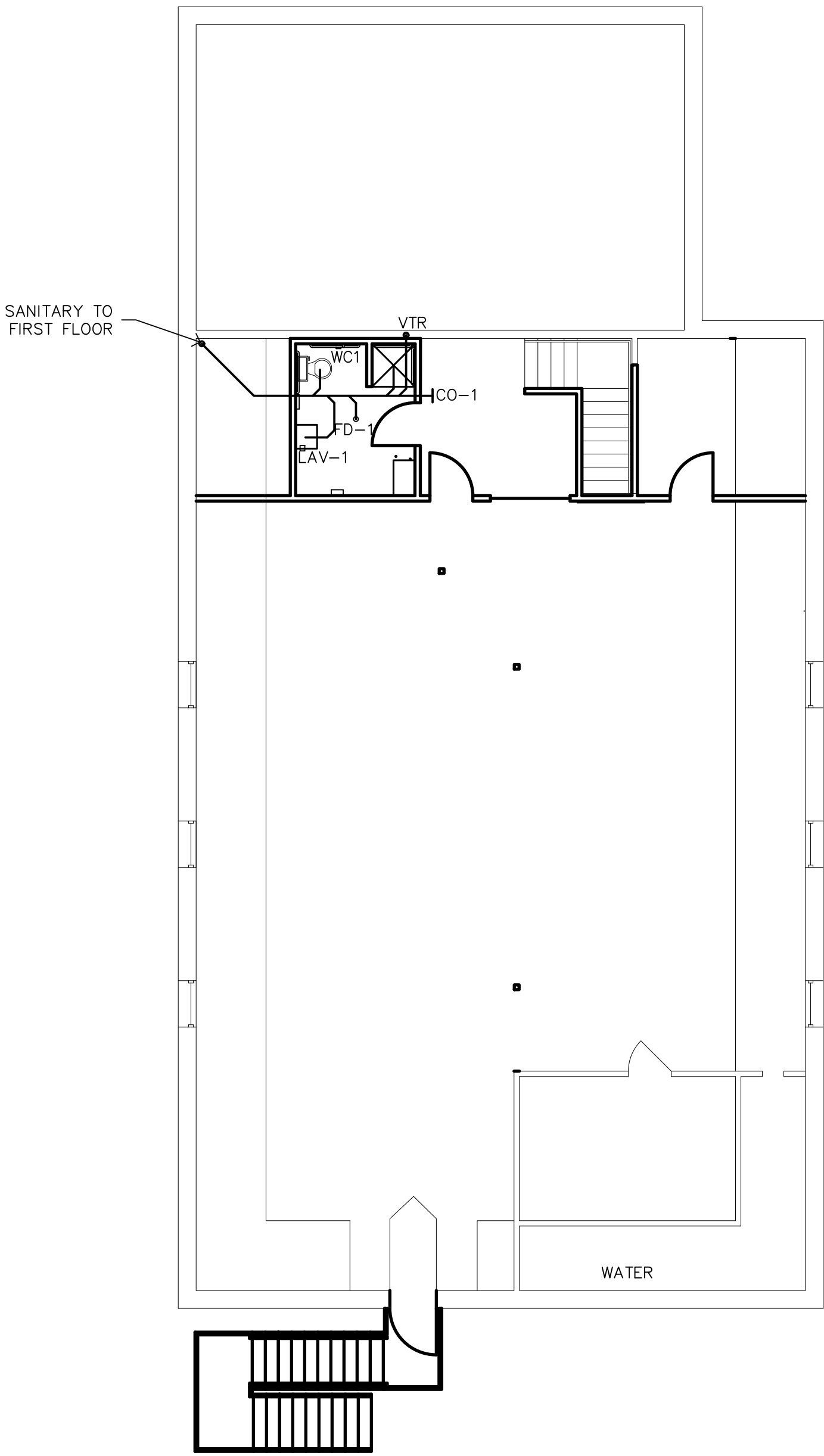
PLUMBING NOTES

- PLUMBING CONTRACTOR RESPONSIBLE TO SIZE ALL WASTE, SUPPLY, VENTS, DRAINS, TRAPS, ETC TO PROVIDE COMPLETE SYSTEM THAT IS IN COMPLIANCE WITH ALL CODES AND REGULATIONS.
- THE PLUMBING DRAWINGS ARE SCHEMATIC ONLY. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE FINAL LAYOUT AND ROUTING OF PIPING.
- NO PLUMBING PIPING SHALL BE ROUTED OVER ELECTRICAL PANELS.
- PLUMBING CONTRACTOR SHALL CONTACT THE SERVICE PROVIDER AND ARRANGE FOR NEW GAS SERVICE CONNECTION.
- PLUMBING CONTRACTOR SHALL CONTACT THE MUNICIPAL AUTHORITY TO ARRANGE FOR NEW WATER SERVICE CONNECTION.
- PROVIDE CLEANOUTS AT THE BASE OF ALL BASE STACKS, CHANGES IN DIRECTION GREATER THAN 45 DEGREES, AND 50 FEET ON CENTER FOR STRAIGHT RUNS.
- ALL PLUMBING SHALL COMPLY WITH BARRIER FREE REQUIREMENTS.
- PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS.
- WRAP ALL WATER PIPING WITH INSULATED PIPE WRAP.
- ALL LAMBS TONGUE DISCHARGE TO BE 36" ABOVE ADJACENT GRADE.
- PLUMBING CONTRACTOR TO VERIFY MICHIGAN PLUMBING CODE AND COUNTY HEALTH DEPARTMENT REQUIREMENT FOR BACKFLOW PREVENTERS, CHECK VALVES, VACUUM BREAKERS, AND INDIRECT WASTEWATER CONNECTIONS.

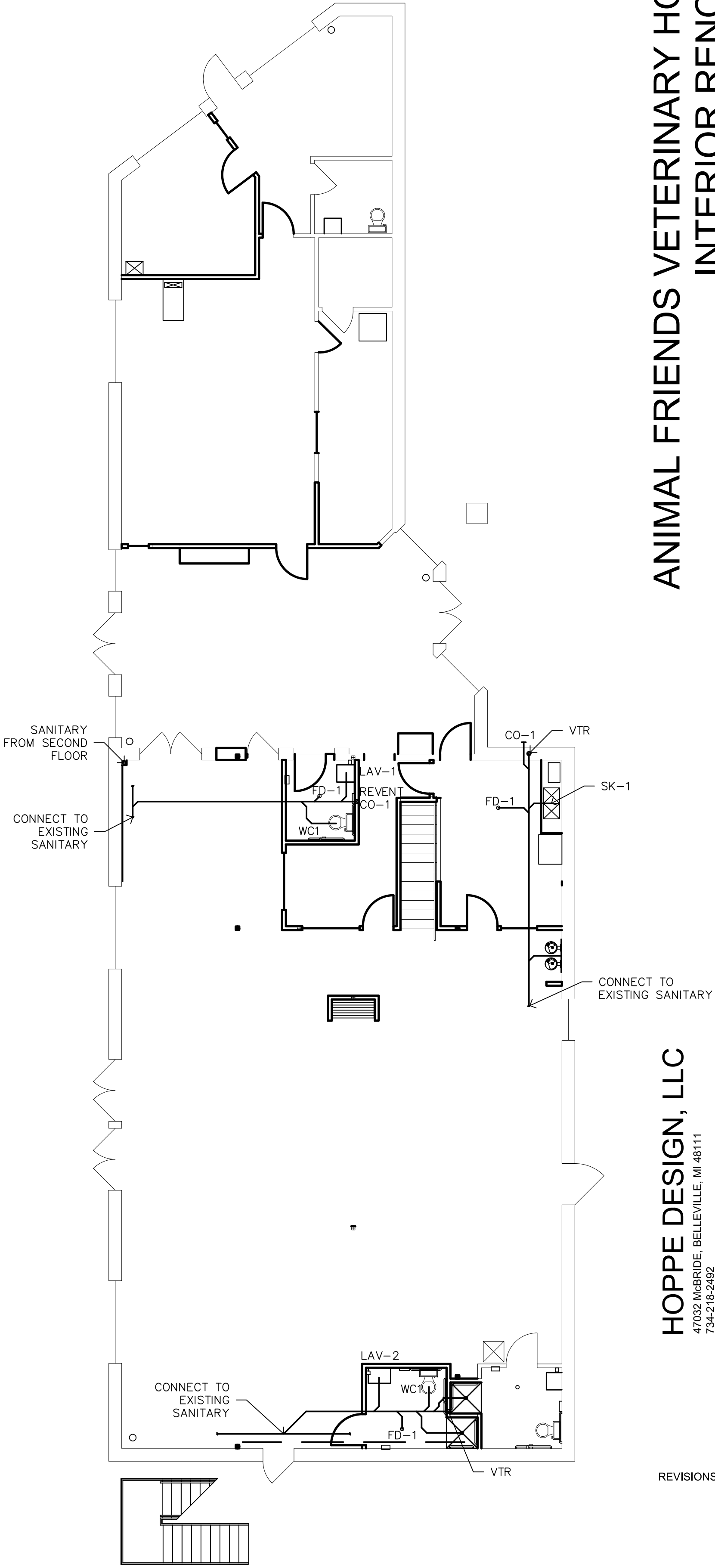
PLUMBING PIPING REQUIREMENTS

	HW	CW	WASTE
WATER CLOSET TANK	1"		3"
WATER CLOSET FLUSH VALVE	1"	1/2"	3"-4"
URINALS			2"
SERVICE SINK	3/4"	3/4"	3"
ELECTRIC WATER COOLER	1/2"	1/2"	1 1/2"
WASH BASIN	1"	1"	1 1/2"
SINKS/LAVATORIES	1"	1"	1 1/2"
SHOWER STALLS	3/4"	3/4"	3"
FLOOR DRAIN			3"

NOTE: PIPE SIZES SHOWN ARE MINIMUM STANDARD. PC SHALL VERIFY VARIANCES ON PLAN.



1
P101
**SECOND FLOOR
SANITARY PLUMBING
PLAN**
SCALE: 1/8" = 1'-0"



2
P101
**FIRST FLOOR SANITARY
PLUMBING PLAN**
SCALE: 1/8" = 1'-0"



**SANITARY PLUMBING
PLAN**

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**ANIMAL FRIENDS VETERINARY HOSPITAL
INTERIOR RENOVATION**
500 E. HURON RIVER DRIVE, BELLEVILLE, MI 48111


REVISIONS


PROJECT: 2202
DATE: 5.30.22
DRAWN: JPH
CHECKED: WCH


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
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
LEGEND


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
GATE VALVE
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
GLOBE VALVE
- 


BALL VALVE
- 


CHECK VALVE
- 


2-WAY CONTROL VALVE
- 


3-WAY CONTROL VALVE
- 


LUBRICATED PLUG VALVE
- 


BAL. BALL VALVE W/
MEMORY STOP
- 


CIRCUIT SETTER
- 


PRESSURE REDUCING
VALVE
- 


PRESSURE TEMP. TEST
PORT
- 


PRESSURE GAUGE
- 


THERMOMETER
- 


EXPANSION JOINT W/
GUIDES
- 


AIR VENT
- 


Y-STRAINER
- 


PIPE FLEXIBLE CONNECTOR
- 


CONN. TO EXIST.
- 


DUCT FLEXIBLE CONNECTOR
- 


EXIST. FIRE DAMPER
- 

NEW FIRE DAMPER
- 


EXIST. SMOKE DAMPER
- 


NEW SMOKE DAMPER
- 

EXIST. COMB. FIRE SMOKE
DMPR
- 

NEW COMB. FIRE/SMOKE
DMPR
- 

MARK
CFM

SUPPLY DIFFUSER
- 

RETURN GRILLE
- 

EXHAUST GRILLE

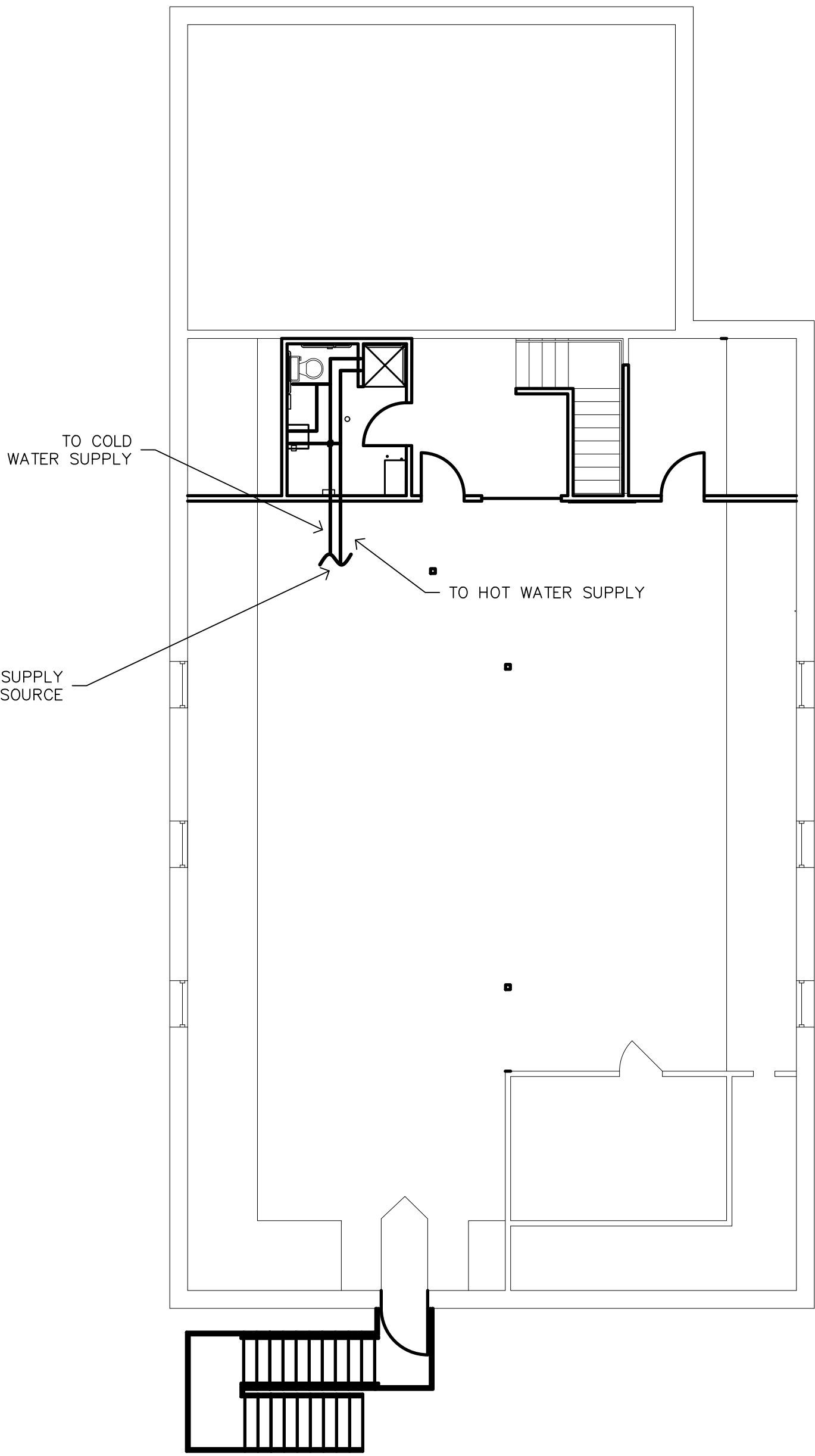
PLUMBING NOTES

1. PLUMBING CONTRACTOR RESPONSIBLE TO SIZE ALL WASTE, SUPPLY, VENTS, DRAINS, TRAPS, ETC TO PROVIDE COMPLETE SYSTEM THAT IS IN COMPLIANCE WITH ALL CODES AND REGULATIONS.
2. THE PLUMBING DRAWINGS ARE SCHEMATIC ONLY. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE FINAL LAYOUT AND ROUTING OF PIPING.
3. NO PLUMBING PIPING SHALL BE ROUTED OVER ELECTRICAL PANELS.
4. PLUMBING CONTRACTOR SHALL CONTACT THE SERVICE PROVIDER AND ARRANGE FOR NEW GAS SERVICE CONNECTION.
5. PLUMBING CONTRACTOR SHALL CONTACT THE MUNICIPAL AUTHORITY TO ARRANGE FOR NEW WATER SERVICE CONNECTION.
6. PROVIDE CLEANOUTS AT THE BASE OF ALL BASE STACKS, CHANGES IN DIRECTION GREATER THAN 45 DEGREES, AND 50 FEET ON CENTER FOR STRAIGHT RUNS.
7. ALL PLUMBING SHALL COMPLY WITH BARRIER FREE REQUIREMENTS.
8. PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS.
9. WRAP ALL WATER PIPING WITH INSULATED PIPE WRAP.
10. ALL LAMBS TONGUE DISCHARGE TO BE 36" ABOVE ADJACENT GRADE.
11. PLUMBING CONTRACTOR TO VERIFY MICHIGAN PLUMBING CODE AND COUNTY HEALTH DEPARTMENT REQUIREMENT FOR BACKFLOW PREVENTERS, CHECK VALVES, VACUUM BREAKERS, AND INDIRECT WASTEWATER CONNECTIONS.

PLUMBING PIPING REQUIREMENTS

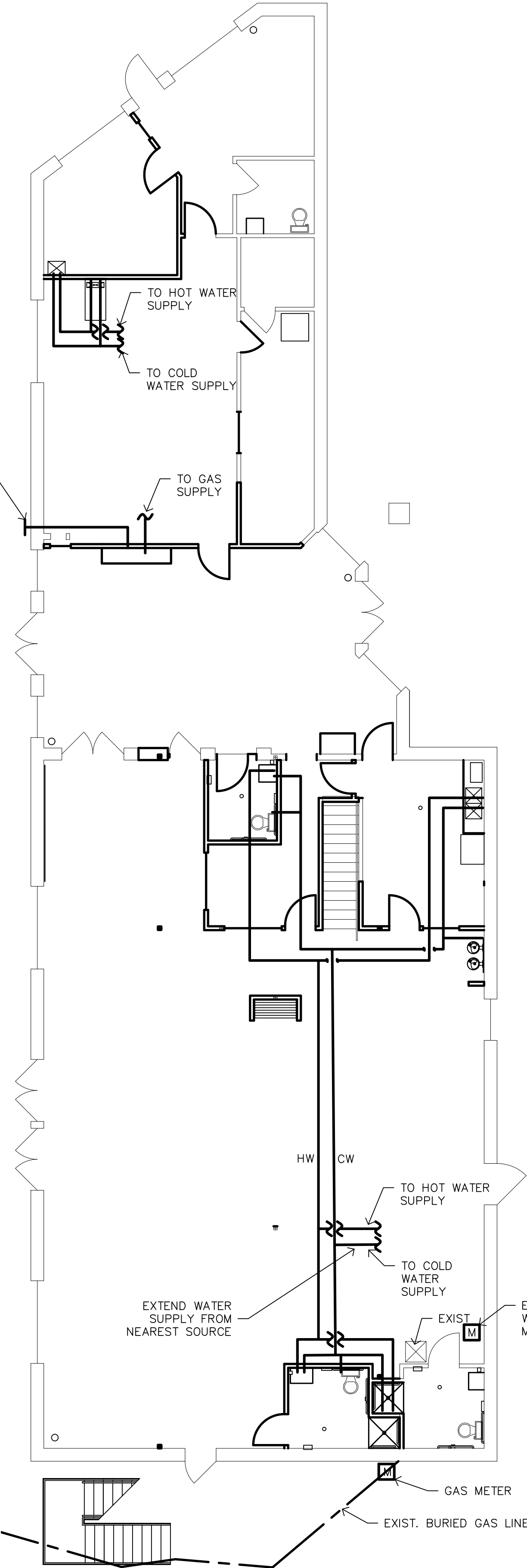
	HW	CW	WASTE
WATER CLOSET TANK	1"	1 1/2"	3"
WATER CLOSET FLUSH VALVE	1"	1 1/2"	3"-4"
URINALS	1/2"	3/4"	2"
SERVICE SINK	1/2"	3/4"	3"
ELECTRIC WATER COOLER	1/2"	3/4"	1"
WASH BASIN	1/2"	3/4"	1"
SINKS/LAVATORIES	1/2"	3/4"	1"
SHOWER STALLS	1/2"	3/4"	3"
FLOOR DRAIN			3"

NOTE: PIPE SIZES SHOWN ARE MINIMUM STANDARD. PC SHALL VERIFY VARIANCES ON PLAN.



SECOND FLOOR SUPPLY
PLUMBING PLAN

SCALE: 1/8" = 1'-0"



FIRST FLOOR SUPPLY
PLUMBING PLAN

SCALE: 1/8" = 1'-0"



SUPPLY PLUMBING
PLAN

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734-216-2492

REVISIONS

PROJECT: 2202
DATE: 5.30.22
DRAWN: JPH
CHECKED: WCH

ANIMAL FRIENDS VETERINARY HOSPITAL

INTERIOR RENOVATION

500 E. HURON RIVER DRIVE, BELLEVILLE, MI 48111
































P102

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LIGHT FIXTURE SCHEDULE						
TYPE	MANUFACTURER	CATALOG NUMBER	LAMPS	NO-WATTS	MOUNTED	REMARKS
A	BY OWNER	SELECTION BY OWNER	LED		PENDANT	3500K 80 CRI
B	LITHONIA	EPANL 2X2 3400LMHE 80CRI 35K MIN1	LED		SUSPENDED, LAY IN SURFACE	POLYCARBONATE LENS
C	LITHONIA	MDP BNP (SHADE SELECTION BY OWNER)	LED		132" PENDANT	3500K 80 CRI
D	SHIPLIGHTS	H-12 MILK, BRASS, INTERIOR, NAUTICAL	LED		SCONCE	8" MOUNTING HEIGHT
E	JUNO	R600L NFL BL TLENS4 NFLD	LED		TRACK	35K
F	LITHONIA	LDN6 35 L06 WR LD MVOLT	LED		RECESSED	
EM	SURE LIGHTS	APEL	LED		WALL/CEILING	
XEM	SURE LIGHTS	APCH7R W/ APWR REMOTE HEAD	LED		WALL/CEILING	

VERIFY FIXTURE SELECTIONS WITH OWNER

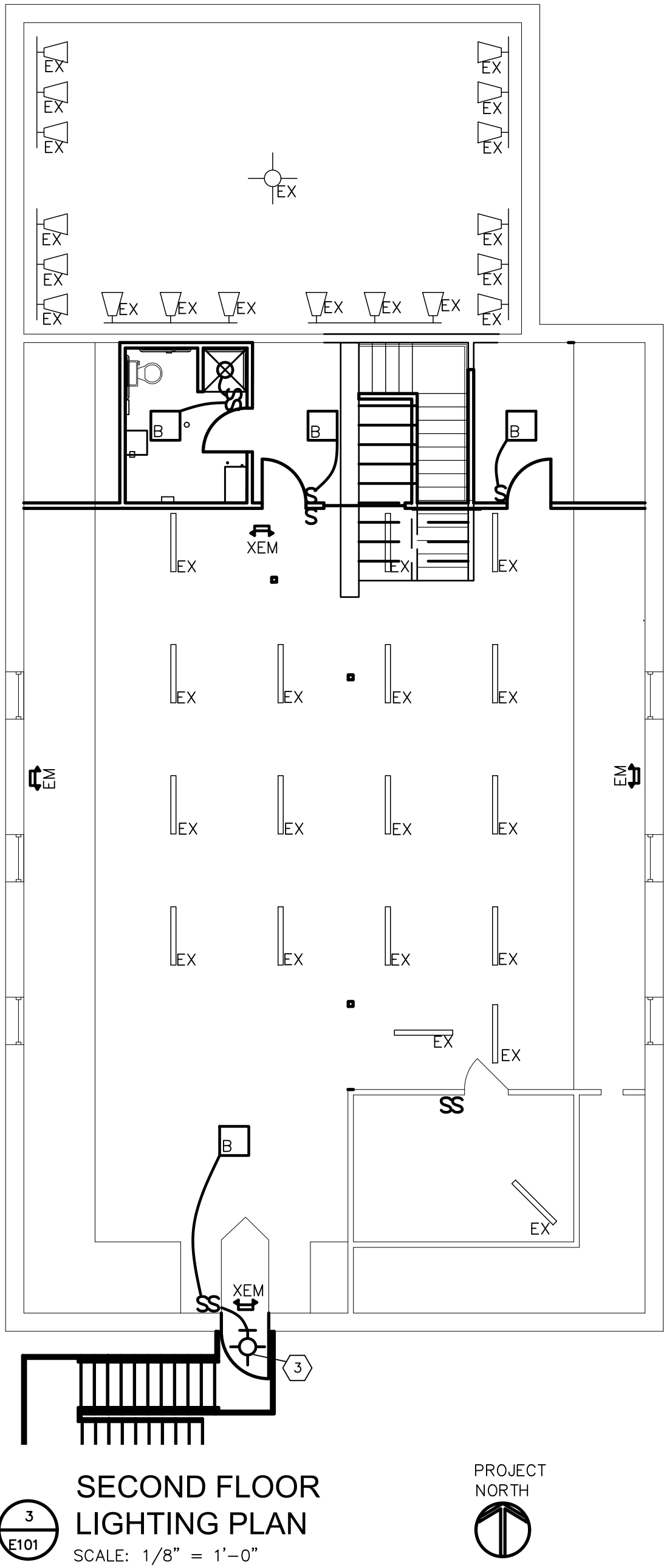
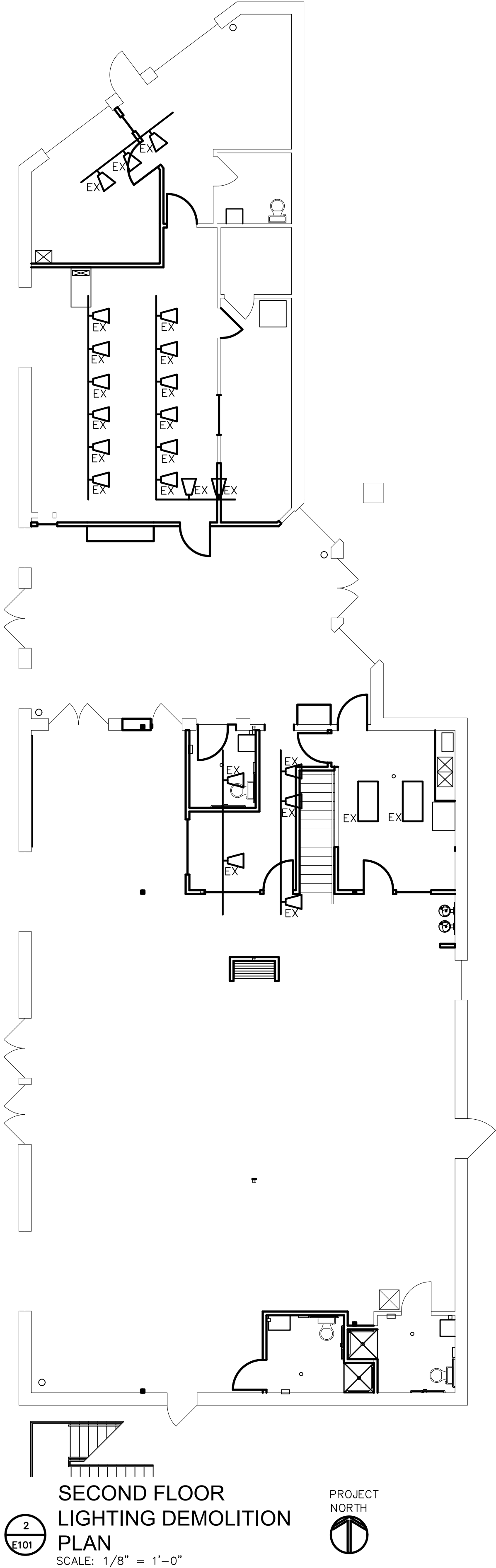
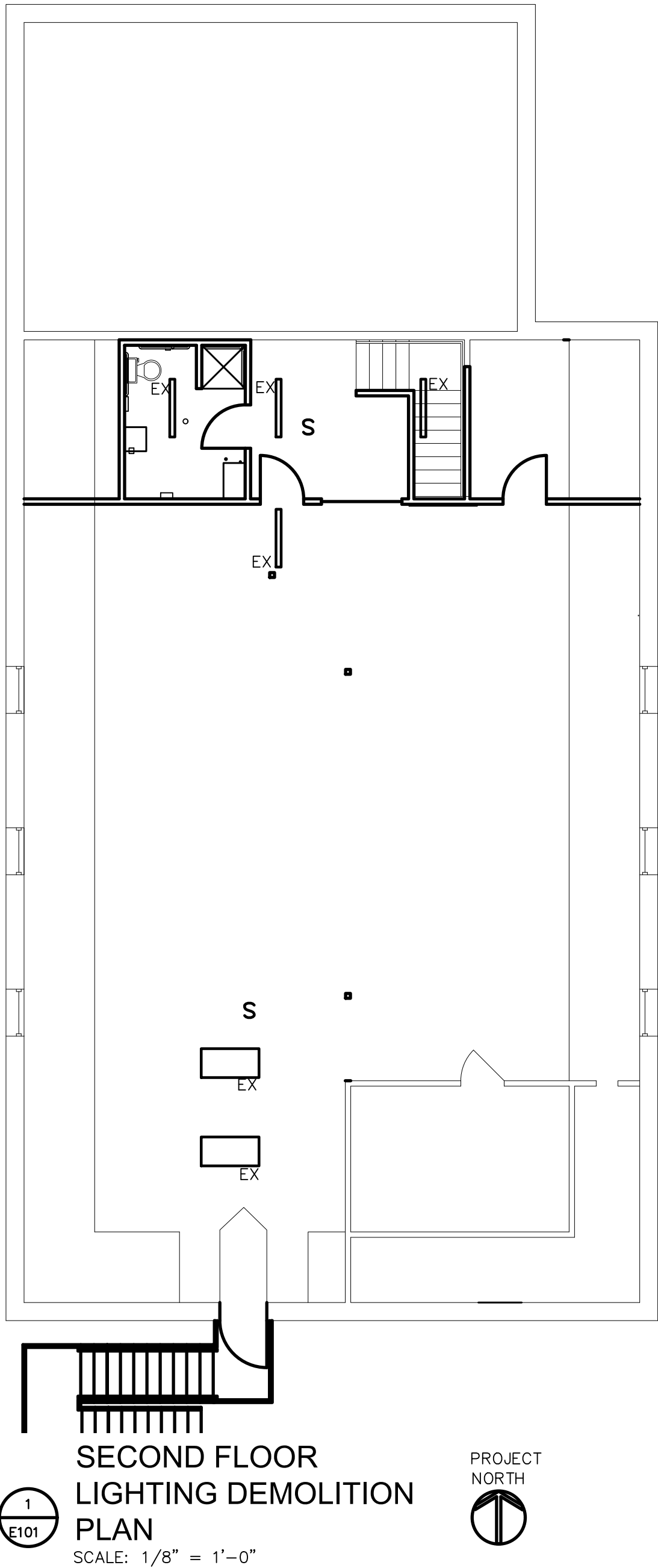
LEGEND

-  SWITCH ON RHEOSTAT
-  THREE WAY SWITCH
-  SWITCH WITH PILOT
-  SWITCH
-  SPECIAL OUTLET
-  DUPLEX OUTLET
-  QUAD OUTLET
-  WEATHERPROOF OUTLET
-  WP
-  TELEPHONE/ COMPUTER
-  SMOKE DETECTOR
-  TELEVISION/ CABLE
-  CEILING MOUNTED LIGHT FIXTURE
-  CEILING MOUNTED LIGHT FIXTURE RECESSED
-  WALL MOUNTED LIGHT FIXTURE
-  CEILING FAN/ LIGHT
-  SCONCE
-  MOTOR, ONE PHASE
-  GROUND MNTD EXT. LIGHTING
-  2x4 LAY IN LIGHT FIXTURE
-  1 X 4 LIGHT FIXTURE
-  PENDANT MOUNTED OVERSIZED FIXTURE
-  EXIT SIGN
-  EXIT SIGN/ EMERGENCY LIGHT
-  FIRE ALARM PULL STATION
-  HORN/ STROBE
-  COMPUTER JACK
-  RATE OF RISE HEAT DETECTOR
-  DISCONNECT SWITCH
-  DISCONNECT SWITCH WITH FUSE
-  AUDIO JUNCTION BOX-- PRE-WIRE PER DIRECTION OF OWNER

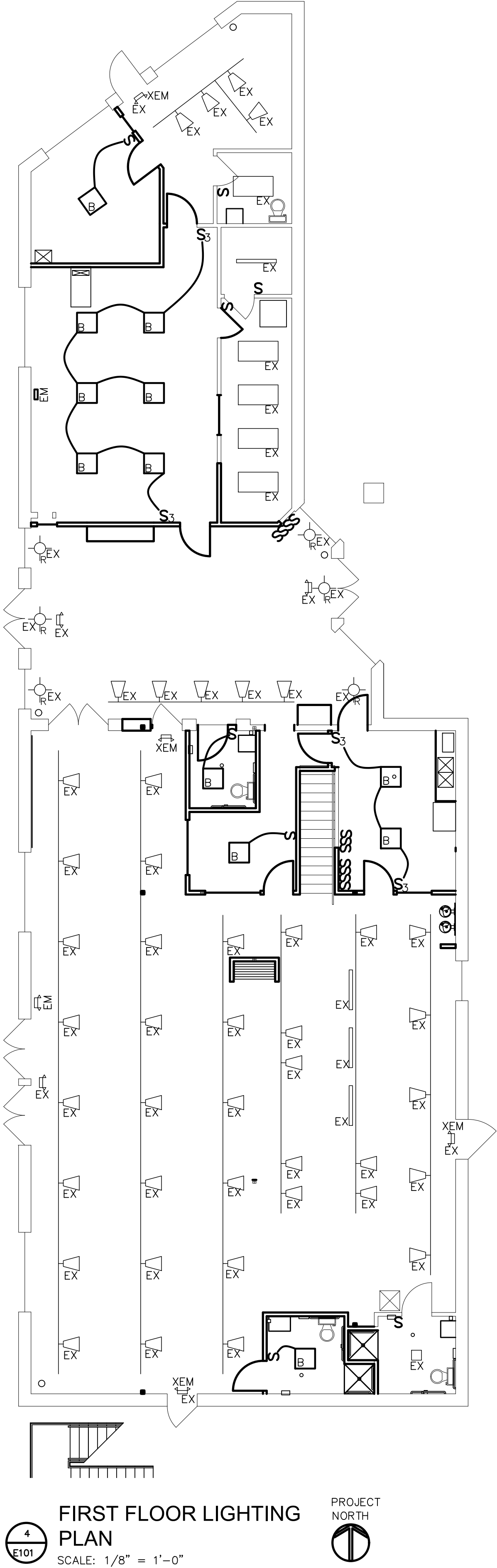
ELECTRICAL KEYNOTES

- 
- OCCUPANCY SENSOR EQUAL TO WATTSTOPPER ST-200
 - EXHAUST FAN TO BE CONTROLLED WITH LIGHTS BY OCCUPANCY SENSOR.
 - INSTALL REMOTE EMERGENCY FIXTURE ABOVE DOOR.

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- NOTE
- ALL EXISTING AND NEW DUPLEX OUTLETS IN KITCHEN AND TOILET ROOM TO BE ON GFI PROTECTED CIRCUIT.
 - VERIFY HEIGHT OF ALL TV AND SIGNAGE JUNCTION BOXES AND POWER WITH CLIENT
 - PROVIDE POWER TO EXHAUST FANS



LIGHTING PLAN

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E101

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500 E. HURON RIVER DRIVE, BELLEVILLE, MI 48111

ELECTRICAL NOTES

- ALL ELECTRICAL WORK SHALL COMPLY WITH THE N.E.C., COUNTY AND LOCAL CODES, ORDINANCES, AND REGULATIONS INCLUDING MIOSHA.
- COORDINATE ALL UNDERGROUND WORK WITH NEW AND EXISTING UNDERGROUND UTILITES BEFORE INSTALLATIONS.
- THE SECONDARY UNDERGROUND CONDUIT AND WIRE SHALL MEET THE REQUIREMENTS OF THE ELECTRIC UTILITY COMPANY.
- ALL EMPTY CONDUITS SHALL BE PROVIDED WITH A 1/4" DIA. POLYPROPYLENE FISH LINE.
- ALL UNDERGROUND CONDUITS SHALL BE INSTALLED 24" MINIMUM BELOW GRADE (UNLESS OTHERWISE SHOWN ON PLAN).
- ALL EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL, INSTALLED WITH WATERTIGHT CONDUIT FITTINGS. EXPANSION FITTINGS SHALL BE PROVIDED AT ALL TRANSITIONS FROM UNDERGROUND TO EXPOSED CONDUIT.
- ALL THREADED ELECTRICAL EQUIPMENT (CONDUIT, FITTINGS, BOLTS, SCREWS, ETC.) INSTALLED AT EXTERIOR SHALL BE COATED WITH ANTI-SEIZE COMPOUND PRIOR TO INSTALLATION.
- ALL WEATHERPROOF (W.P.) DUPLEX RECEPTACLES SHALL BE INSTALLED SUCH THAT COVER DOORS OPEN UPWARD.
- HAND DIG WHERE REQUIRED TO LOCATE EXISTING UTILITIES PRIOR TO INSTALLATION OF NEW UNDERGROUND CONDUITS FOR POWER AND LIGHTING.
- PROVIDE A GREEN GROUND CONDUCTOR IN ALL SYSTEM CONDUITS, EXCEPT INSTRUMENT SIGNAL AND ALARM CONDUITS, INCLUDING BRANCH CIRCUIT CONDUITS FOR LIGHTING AND RECEPTACLES. GROUND CONDUCTOR SIZING SHALL BE PER N.E.C. TABLE 250.122 (MINIMUM) WHERE NOT SIZED ON THE DRAWINGS.
- WIRE SIZE SHALL BE #12 (MINIMUM) AND CONDUIT SIZE SHALL BE 3/4" (MINIMUM) FOR ALL POWER AND LIGHTING CIRCUITS WHERE NOT SIZED ON THE DRAWINGS.
- INSTALL SEPARATE GROUNDING CONDUCTOR TO ALL ISOLATED GROUND RECEPTACLES.
- LOCATE JUNCTION BOXES PER MANUFACTURER'S REQUIREMENTS.
- EXHAUST FANS TO BE PROVIDED WITH SPEED CONTROL LOCATED ABOVE THE CEILING. PROVIDE A SWITCH WITH A PILOT LIGHT.
- VERIFY LOCATION OF ALL POWER, PHONE, AND DATA JUNCTION BOXES WITH THE OWNER.
- ELECTRICAL CONTRACTOR TO COMPLY WITH NEC SECTION 110-C(A) AND (B) AND ALL TERMINATION CODE REQUIREMENTS.
- EC TO SIZE ALL WIRING, CIRCUITING, JB'S, BREAKERS, SUB PANELS, ETC., TO PROVIDE A COMPLETE SYSTEM.
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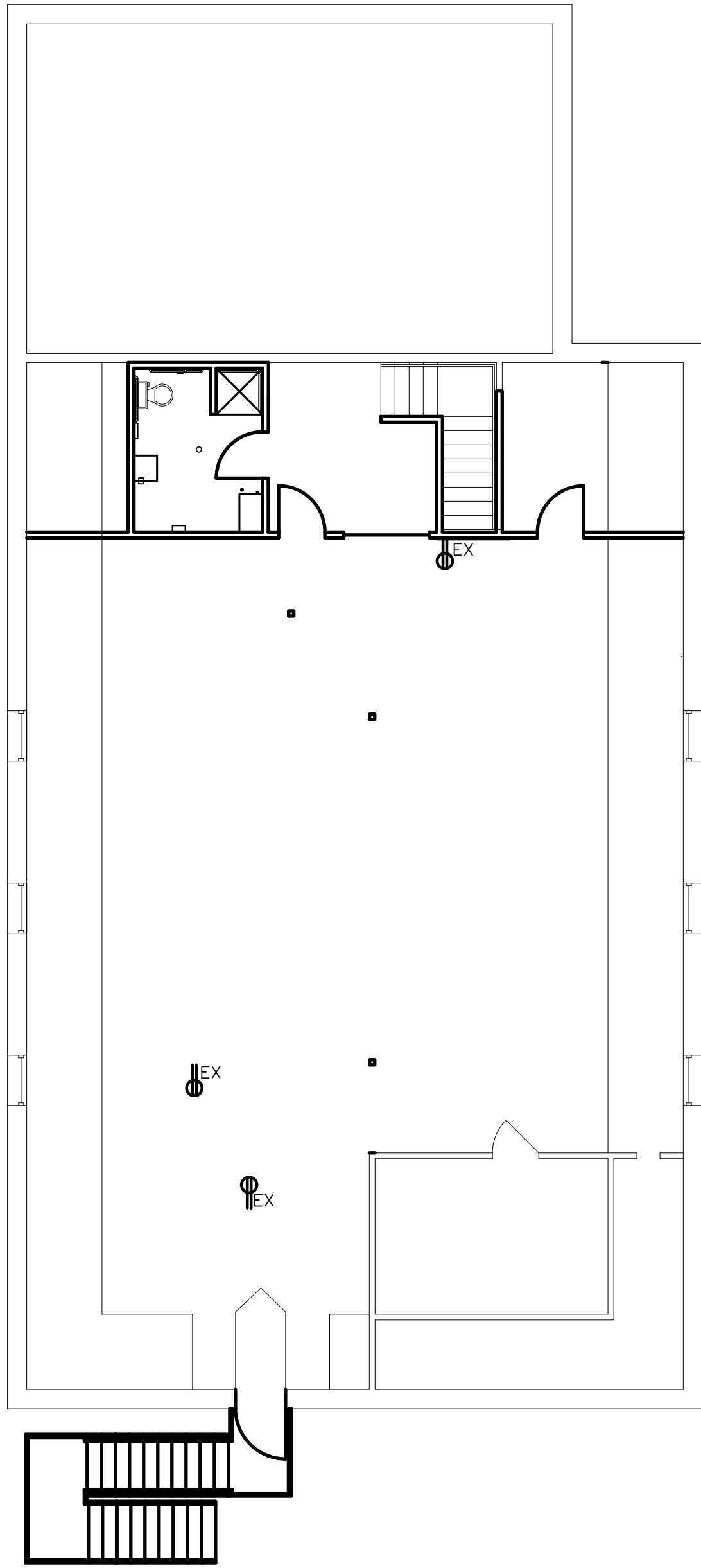
VERIFY FIXTURE SELECTIONS WITH OWNER

LEGEND

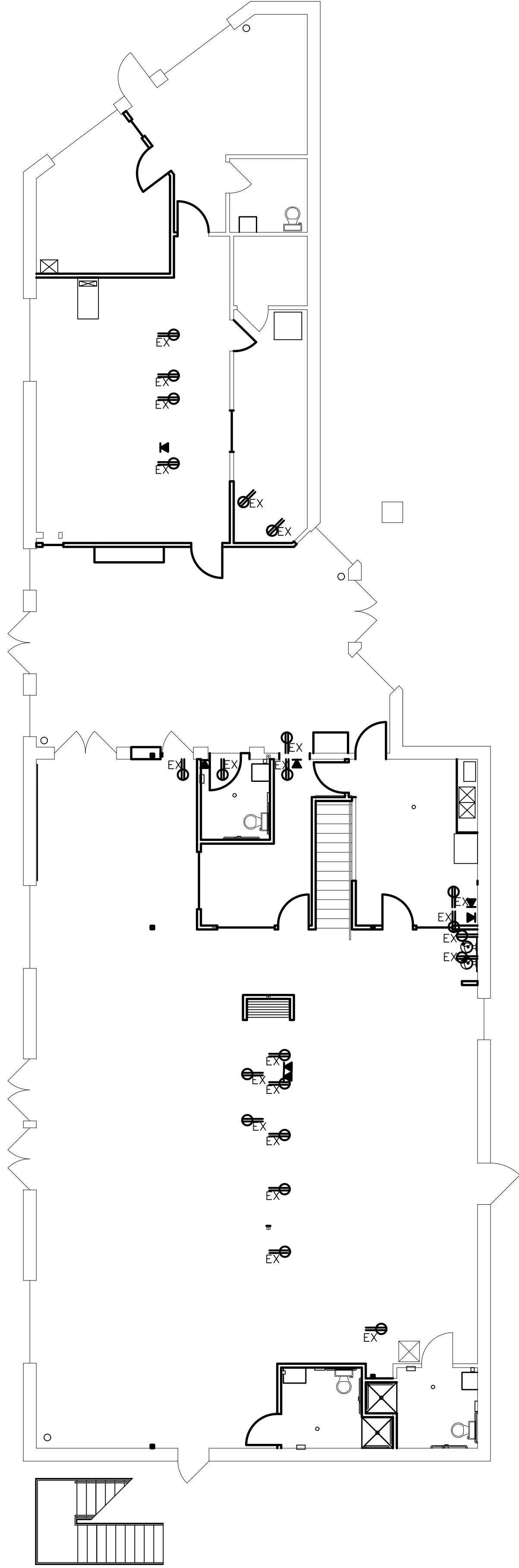
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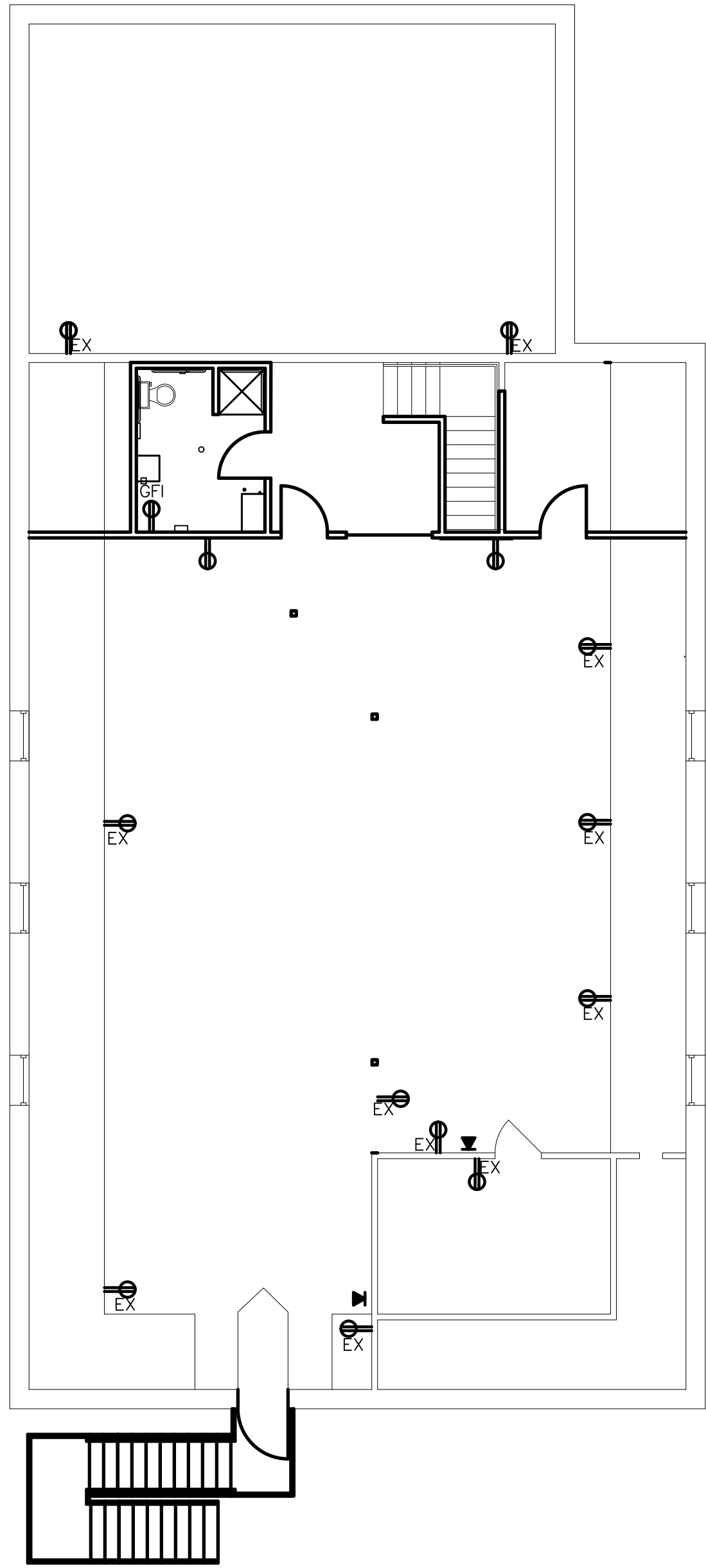
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1 SECOND FLOOR POWER DEMOLITION PLAN
SCALE: 1/8" = 1'-0"
PROJECT NORTH



2 FIRST FLOOR POWER DEMOLITION PLAN
SCALE: 1/8" = 1'-0"
PROJECT NORTH

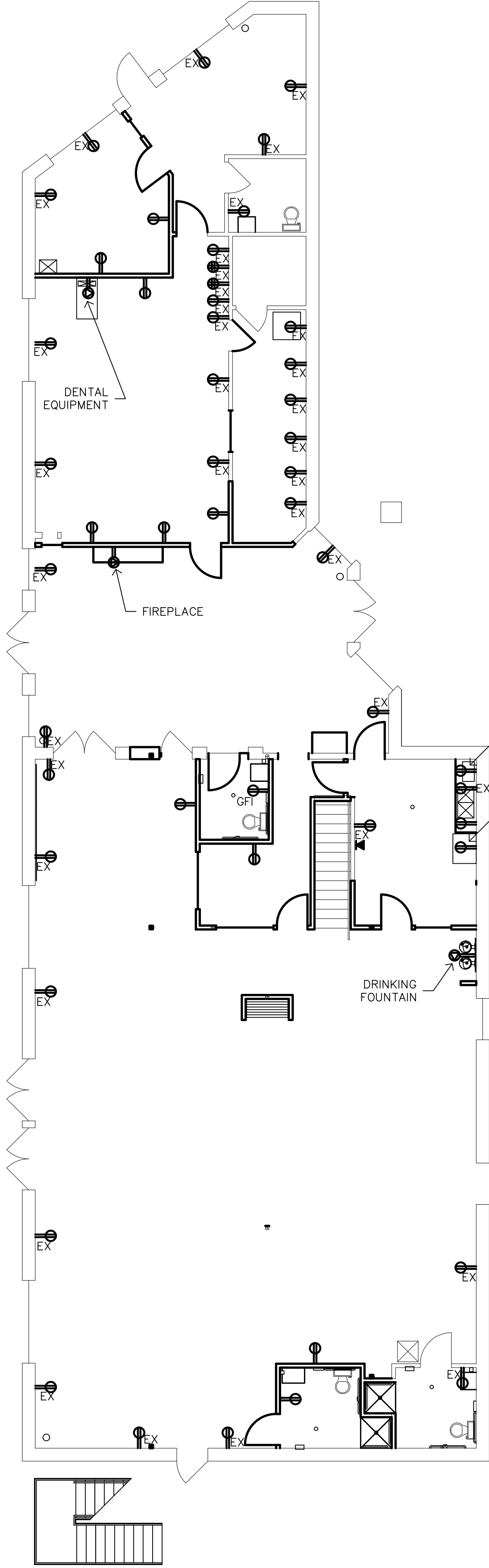


3 SECOND FLOOR POWER PLAN
SCALE: 1/8" = 1'-0"
PROJECT NORTH

- NOTE
- ALL EXISTING AND NEW DUPLEX OUTLETS TO BE ON GFI PROTECTED CIRCUIT.
 - VERIFY HEIGHT OF ALL TV AND SIGNAGE JUNCTION BOXES AND POWER WITH CLIENT
 - PROVIDE POWER TO RTU'S, ROOFTOP COOLER COMPRESSOR, AND EXHAUST FANS

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4 FIRST FLOOR POWER PLAN
SCALE: 1/8" = 1'-0"
PROJECT NORTH

POWER PLAN

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