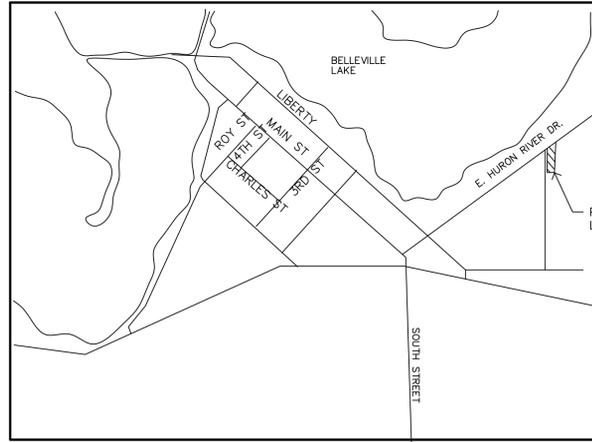


# INTERIOR RENOVATIONS TO THE ANIMAL FRIENDS VETERINARY HOSPITAL 500 E HURON RIVER DRIVE, BELLEVILLE, MI 48111

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

## LOCATION MAP



PROJECT NORTH



## 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

DESCRIPTION	MANUFACTURER	MODEL	STYLE	FINSH	COLOR	STANDARD/RESPONSIBILITY	COMMENTS	MARKING
<b>DIVISION 3</b>								
CONCRETE @ FOUNDATIONS, BASEMENT WALLS, EXTERIOR WALLS, PIERS, COLUMNS, STRUCTURAL FRAMING	3500 PSI AT 28 DAYS, 45 WATER/CEMENT RATIO, 1" MAX COARSE AGGREGATE, 804 LBS/CY CEMENT, 5.7% AIR ENTRAINMENT BY VOL. 3" S/LUPL				NA	ASTM C24 ACI 318, 301	AGGREGATE MAX. NOT TO EXCEED 1/4 OF SLAB THICKNESS, NO CALCIUM CHLORIDE ADDITIVES	X
CONCRETE @ DRIVEWAYS, GARAGE FLOORS, PORCHES, PATIOS, STAIRS, SLABS, SILLIS, SIDEWALKS, CURBS	4000 PSI AT 28 DAYS, 45 WATER/CEMENT RATIO, 1" MAX COARSE AGGREGATE, 804 LBS/CY CEMENT, 5.7% AIR ENTRAINMENT BY VOL. 3" S/LUPL				NA	ASTM C24 ACI 318, 301	AGGREGATE MAX. NOT TO EXCEED 1/4 OF SLAB THICKNESS, FLOOR LEVELS TO BE 1/8" IN 10' MAX, NO CALCIUM CHLORIDE ADDITIVES, SAW-CUT CONTROL JOINTS WITHIN 24 HOURS OF INSTALLATION OF CONCRETE	X
STEEL REINFORCING, WELDED WIRE MESH	FLAT SHEETS, 6" X 1/4" X 1/4" UNO			GRADE 60	NA	ASTM A618, CRSB	PROVIDE CHAIRS AND BOLSTERS, STAGGER OVERLAPS 2 FULL MESH	X
CURING COMPOUND	SONNEBORN			R/GITITE DYE	NA	ASTM A185 547	TWO COATS ON SLABS, VERIFY COMPATIBILITY WITH FLOORING	
CONCRETE SEALER, WATER BORNE	LEM CONSTRUCTION CHEMICALS			1.6 MICURE R/R2	NA	ASTM C695 TYPE 1 AND 2		

DESCRIPTION	MANUFACTURER	MODEL	STYLE	FINSH	COLOR	STANDARD/RESPONSIBILITY	COMMENTS	MARKING	
<b>DIVISION 4</b>									
MORTAR TYPE II BELOW GRADE	PORTLAND CEMENT					NA	ASTM C-270, 2000 PSI	NO WELL OR LAKE WATER IN MORTAR	X
MORTAR TYPE I	PORTLAND CEMENT					BY OWNER	ASTM C-270	NO WELL OR LAKE WATER IN MORTAR	X
MORTAR TYPE N-1	PORTLAND CEMENT					BY OWNER	ASTM C-270	NO WELL OR LAKE WATER IN MORTAR	X
MASONRY GROUT						NA	ASTM C-478, 3000 PSI	ROD OR VIBRATE, LOW LIFT GROUT	X
FLASHING	GRACE	PERIUM-A BARBER	40 MIL			NA	SELF-ADHERING WITH PRIMER	X	
WEEPS	OUR-D-WALL	DA1009	CELL VENT			NA		X	
TIES	HOLMAN AND BARBARO	DW 101 W/T TIE ADJUSTABLE				GALV	ASTM F153 2002 MISC 24 1/4" X 1/8" TIES WITHIN 2" OF OPENINGS, ANGLES AND JOINTS, MECH PLAY 0.2" TO 0.3" NO DRIPS, 10" DEFLECTION UNDER 100 LBS TENSION OR COMPRESSION, #8A WIRE, 4 1/2" MAX CAITY DEPTH, W/17 MAX AREA PER TIE = 2.67 SF	X	
MOISTURE BARRIER	TYVEK					NA		X	
REBAR POSITIONERS	HECKMAN OR HOLMAN AND BARBARO	3/8 OR RB				NA		X	
VAPOR BARRIER						NA	POLYETHYLENE, 5 MIL SLAB, 1 MIL WALLS, 2" O" OVERLAP BENEATH SLABS	X	

DESCRIPTION	MANUFACTURER	MODEL	STYLE	FINSH	COLOR	STANDARD/RESPONSIBILITY	COMMENTS	MARKING	
<b>DIVISION 5</b>									
STRUCTURAL STEEL						NA	ASTM A992, A992	HOLS TO B & D RILLED NOT BURNED	X
W SHAPES						NA	ASTM A992		X
CHANNELS						NA	ASTM A992		X
ANGLES						NA	ASTM A992		X
PLATES						NA	ASTM A992		X
HSS RECTANGULAR SQUARE						NA	ASTM A500		X
BOLTS						NA	ASTM A325-N HIGH STRENGTH, F1554	3/4" UNO, PROVIDE WASHERS BENEATH TURNED ELEMENTS	X
NUTS						NA	ASTM A663		X
BOLT WASHERS						NA	ASTM F436, A338	HARDENED, HOT DIPPED GALVANIZED	X
STEEL LINTELS						BY OWNER		ALL EXTERIOR LINTELS TO BE GALVANIZED AND PAINTED, INTERIOR LINTELS TO BE PAINTED	X
STEEL SHES						NA	A36 36M		X
SHAPES CLIPS						NA	AWSD11		X
WELDING ELECTRODES						NA	ASTM E705		X
STRUCTURAL LEVELING GROUT	LEM CONSTRUCTION CHEMICALS	DRY STEK 3000 PSI				NA	ASTM C107	PREMIXED	X
STEEL STUDS 12, 14, 16 GA.	CLARK DIETRICH					NA	ASTM C395	18" OC UNO	X
STEEL STUDS 18, 20 GA.	CLARK DIETRICH					NA	ASTM C395	18" OC UNO	X
STEEL TRACS AND RUNNERS 14, 16, 18, 20 GA.	CLARK DIETRICH					NA	ASTM C395	18" OC UNO	X
STEEL HAT CHANNEL 25 GA.	CLARK DIETRICH	1 1/4" FLANGE 3/4" DEPTH				NA	A653		X
PRIMER	TRUSCON	37 BAR OX	LEAD/CHROMAT FREE		RED			NON-ASPHALTIC, RUST INHIBITING	X
ALUMINUM BREAK META.	ALCOA					FACTORY		ALUMINUM IS NOT BE IN CONTACT WITH TREATED LUMBER OR MORTAR	X

DESCRIPTION	MANUFACTURER	MODEL	STYLE	FINSH	COLOR	STANDARD/RESPONSIBILITY	COMMENTS	MARKING	
<b>DIVISION 6</b>									
FRAMING LUMBER						NA	STAMP OF INSPECTION	STRUCTURAL SOUTHERN PINE, HEM-FIR NO 2	X
TREATED LUMBER, BELOW GRADE						NA	AWPA UCA4	50% RETENTION, AIONIA FREE	X
TREATED LUMBER, ABOVE GRADE						NA	AWPA UCB3	50% RETENTION, AIONIA FREE	X
TREATED LUMBER HARDWARE	SIMPSON	S-185				NA		HOT DIPPED GALVANIZED OR STAINLESS STEEL	X
TREATED LUMBER IN CONTACT WITH CONCRETE						NA	AWPA C2	50% RETENTION, AIONIA FREE	X
BOLTS FOR WOOD CONSTRUCTION						NA			X
JOISTS AND LVLS						NA			X
PLYWOOD SUB FLOORING	STURBOARD	3/4" T AND G				NA	APA 1 DOC PSI		X
PLYWOOD SHEATHING						NA	AIER, PLYWD ASSOC		X
ORIENTED STRAND BOARD						NA	AIER, PLYWD ASSOC	OSB IS ACCEPTABLE SUBSTITUTE FOR VERTICAL APPLICATIONS	X
WOOD PRESERVATIVE						NA		ACQ FOR DOUGLASS FIR OR CCA FOR SOUTHERN PINE	X

**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 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.

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 DETERATING 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.

REINFORCING 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.  
1" DECK SLAB TO TOP  
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 KEVED 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-F TO 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"	21'-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"

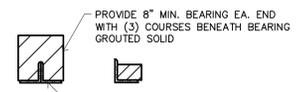
STUD SIZE	16" OC/50 KSI***	12" OC/50 KSI***
3 1/2" OR 4" X 20 GA	12'-0"	13'-6"
3 1/2" OR 4" X 18 GA	13'-3"	14'-8"
3 1/2" OR 4" X 16 GA	14'-3"	15'-8"

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 3 POINTS OR 8'-0" MAX.

**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 WNDOWS ADJACENT TO SIDING  
3. ALL BRICK LINTELS TO BE GALVANIZED.

ARC SPOT WELDS (PUDDLE WELDS) TO SUPPORTS SHALL HAVE A DIAMETER OF 3/8" MINIMUM OR AN ELONGATED WELD OF 3/8" 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 3/8" DIAMETER PUDDLE WELDS AT 12" OC. SHEAR STUDS WELDED THROUGH DECK MAY BE USED IN PLACE OF 3/8" 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 DRAWINGS, 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 3/8" DIA BOLTS, E70XX 7/8" WELD AND 3/8" ANGLE THICKNESS.

ALL WELDING SHALL BE PERFORMED 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 IS 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 5/8"	5/8"
OVER 5/8" TO 3/4"	3/4"
OVER 3/4"	7/8"

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 SJ 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 BE MADE USING JOIST HANGERS DESIGNED FOR THE SPECIFIC CONDITION UNLESS OTHER CONNECTIONS ARE PROVIDED.

SHOP DRAWINGS SHALL BE PROVIDED FOR ALL ENGINEERED WOOD MATERIAL INDICATING PRODUCTS, DETAILS, CONNECTIONS

**STATEMENT OF SPECIAL INSPECTIONS**

STEEL CONSTRUCTION (TABLE 1704.3)	FREQUENCY		REFERENCE CRITERIA	
	CONT-INOUS	PERIODIC	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				
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	—

REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION (TABLE 1704.4)	FREQUENCY		REFERENCE CRITERIA		
	CONT-INOUS	PERIODIC	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	—	
<b>LEVEL 1 SPECIAL INSPECTION (TABLE 1704.5.1) INSPECTION TASK</b>					
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	FREQUENCY		REFERENCE CRITERIA		
	CONT-INOUS	PERIODIC	REFERENCED STANDARD	IBC SECTION	
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
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
6. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED	—	X	—	—	ART. 1.5
<b>REQUIRED VERIFICATION AND INSPECTION OF SOILS (TABLE 1704.7) VERIFICATION AND INSPECTION</b>					
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**

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

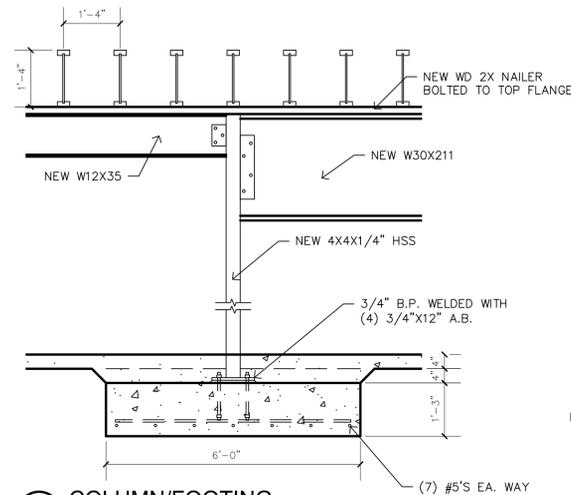
**HOPPE DESIGN, LLC**  
47032 MERRIDIE, BELLEVILLE, MI 48111  
734-215-2492

REVISIONS

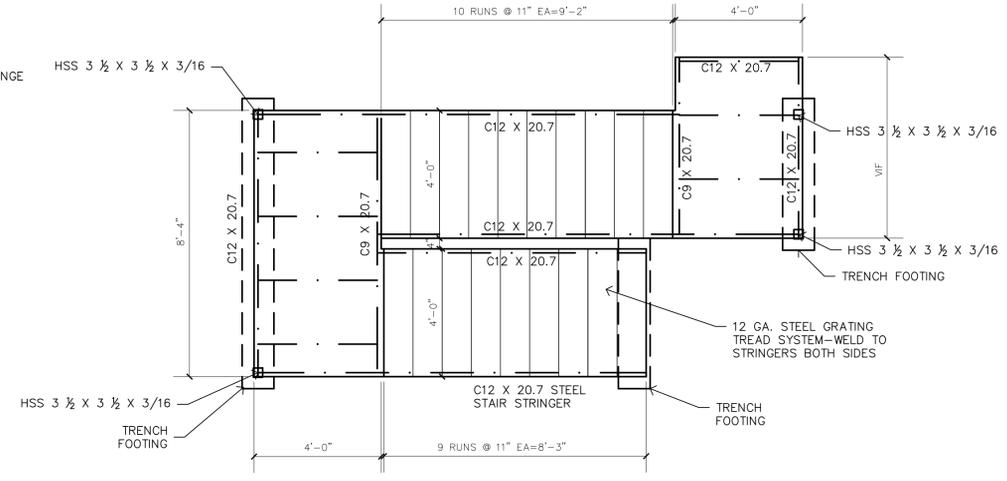
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CHECKED: WCH

**S002**

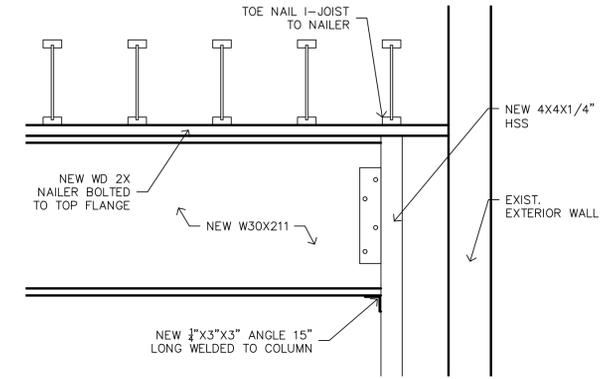
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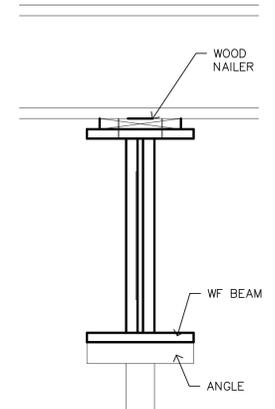
**8 COLUMN/FOOTING SECTION F-2**  
SCALE: 1/2" = 1'-0"



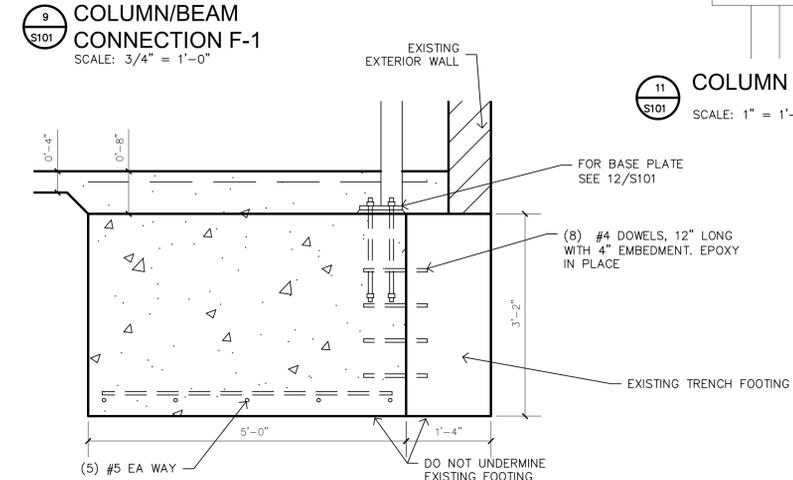
**13 STRUCTURAL STAIR PLAN**  
SCALE: 3/8" = 1'-0"



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



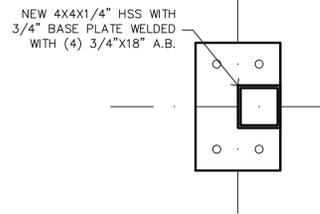
**11 COLUMN SECTION**  
SCALE: 1" = 1'-0"



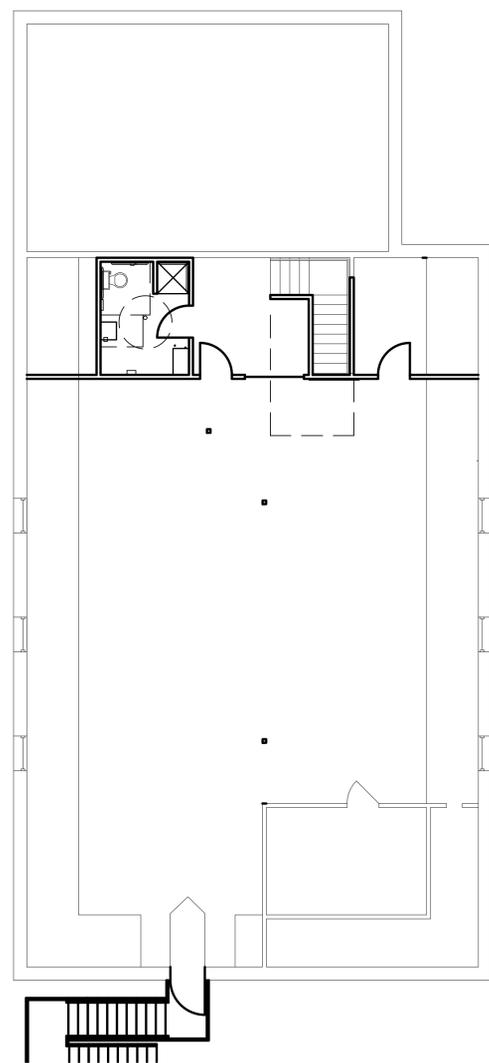
**10 COLUMN FOOTING SECTION F-1**  
SCALE: 3/4" = 1'-0"

**FOOTING SCHEDULE**

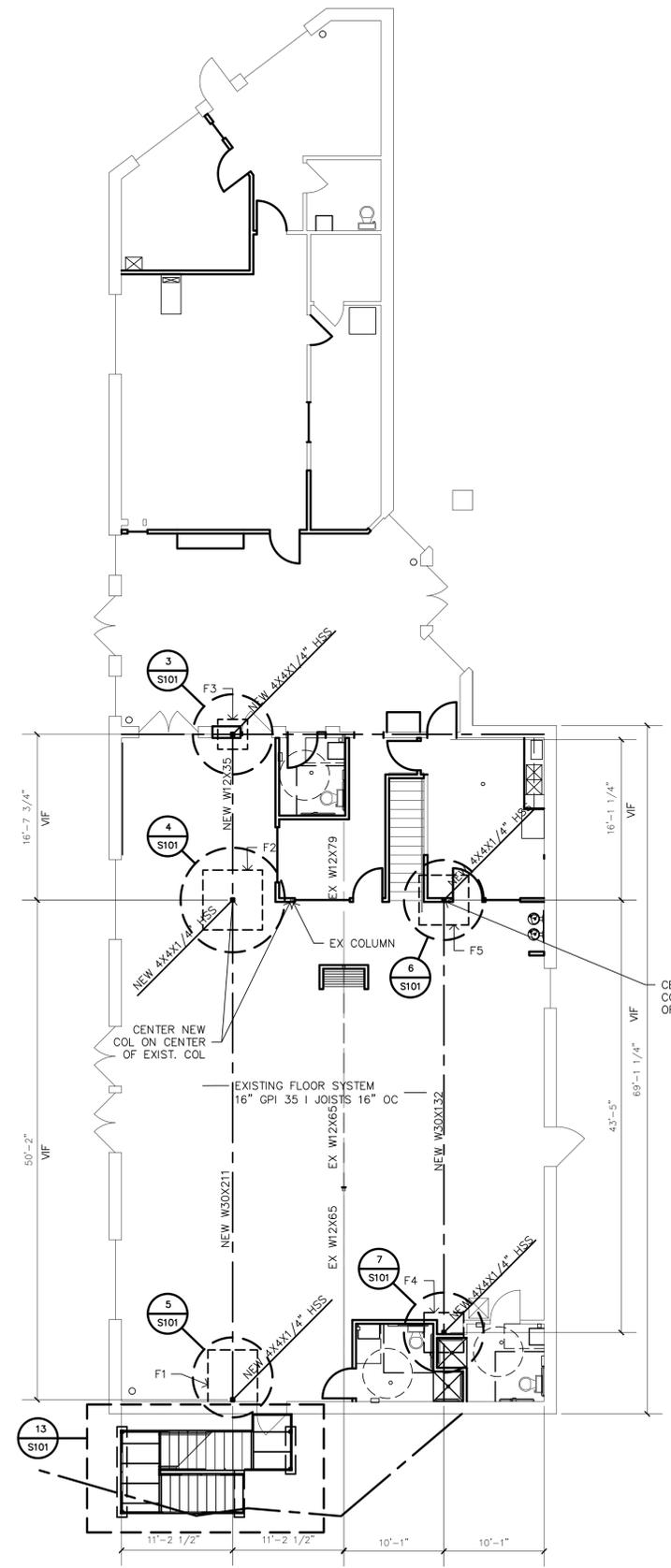
F1	5'-0" x 5'-0" x 3'-2" (12" MIN) WITH 5-#5 EACH WAY
F2	6'-0" x 6'-0" x 15" (15" MIN) WITH 7-#5 EACH WAY
F3	3'-0" x 3'-0" x 12" (12" MIN) WITH 4-#5 EACH WAY
F4	4'-0" x 4'-0" x 12" (12" MIN) WITH 5-#5 EACH WAY
F5	5'-0" x 5'-0" x 12" (12" MIN) WITH 5-#5 EACH WAY



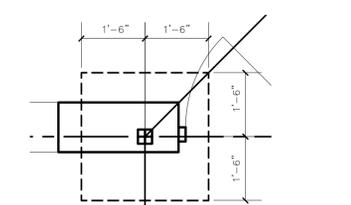
**12 COLUMN BASE**  
SCALE: 1 1/2" = 1'-0"



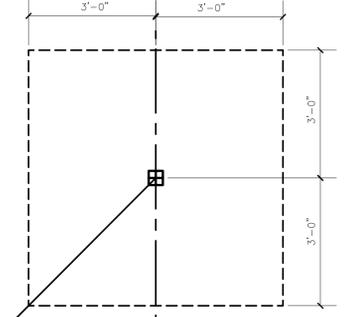
**2 STRUCTURAL SECOND FLOOR PLAN**  
SCALE: 3/16" = 1'-0"



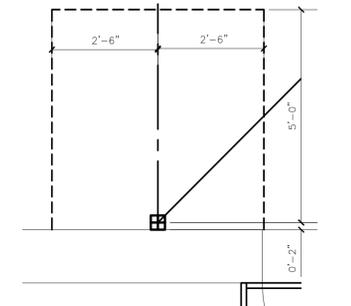
**1 STRUCTURAL FIRST FLOOR PLAN**  
SCALE: 3/16" = 1'-0"



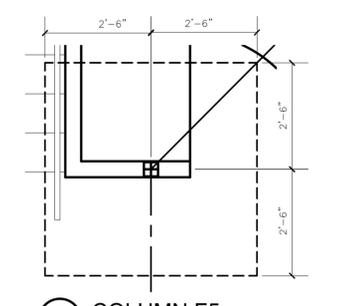
**3 COLUMN F3**  
SCALE: 3/4" = 1'-0"



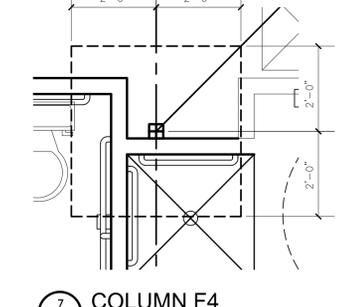
**4 COLUMN F2**  
SCALE: 3/4" = 1'-0"



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



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



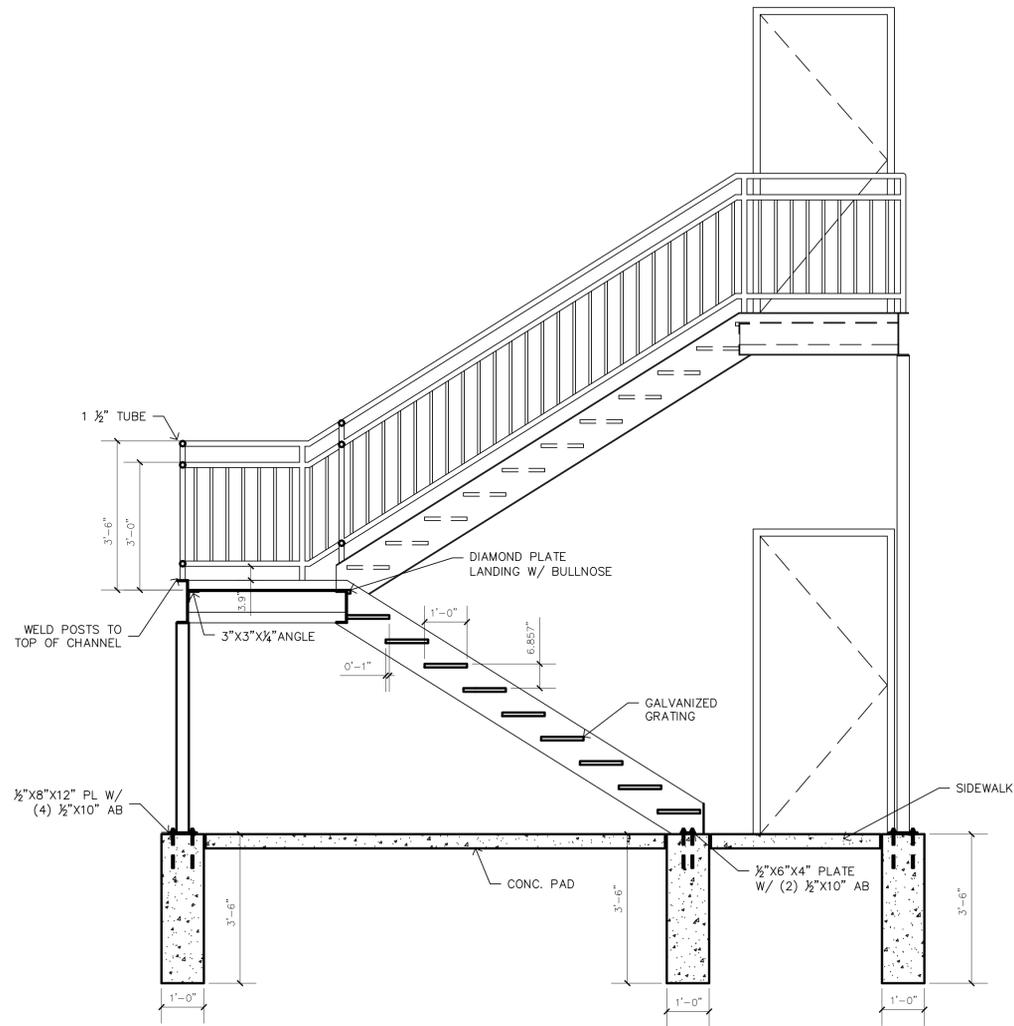
**7 COLUMN F4**  
SCALE: 3/4" = 1'-0"

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

**STRUCTURAL  
FLOOR PLAN**

**S101**

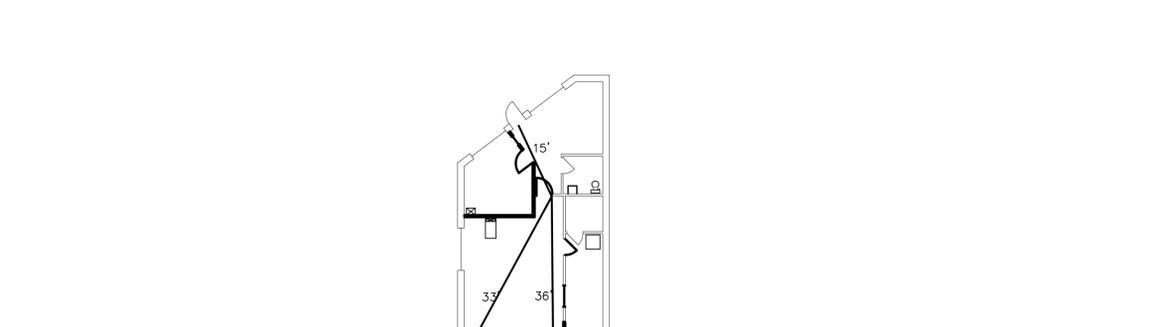
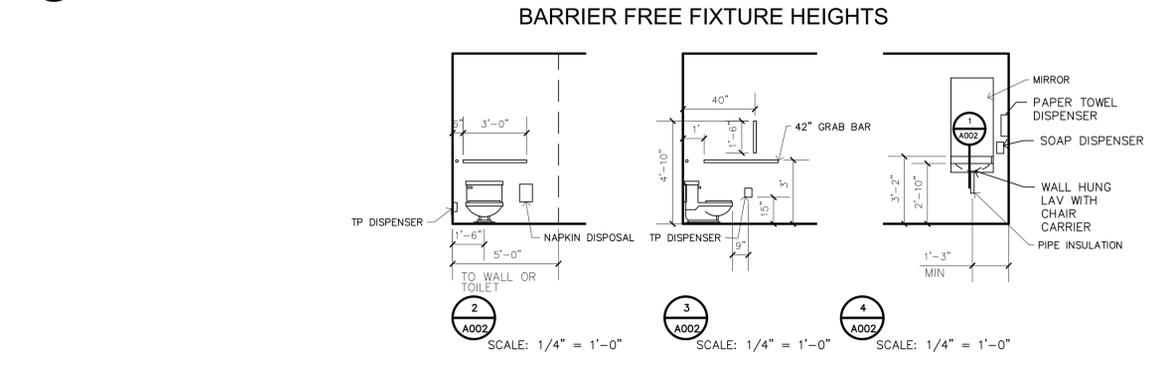
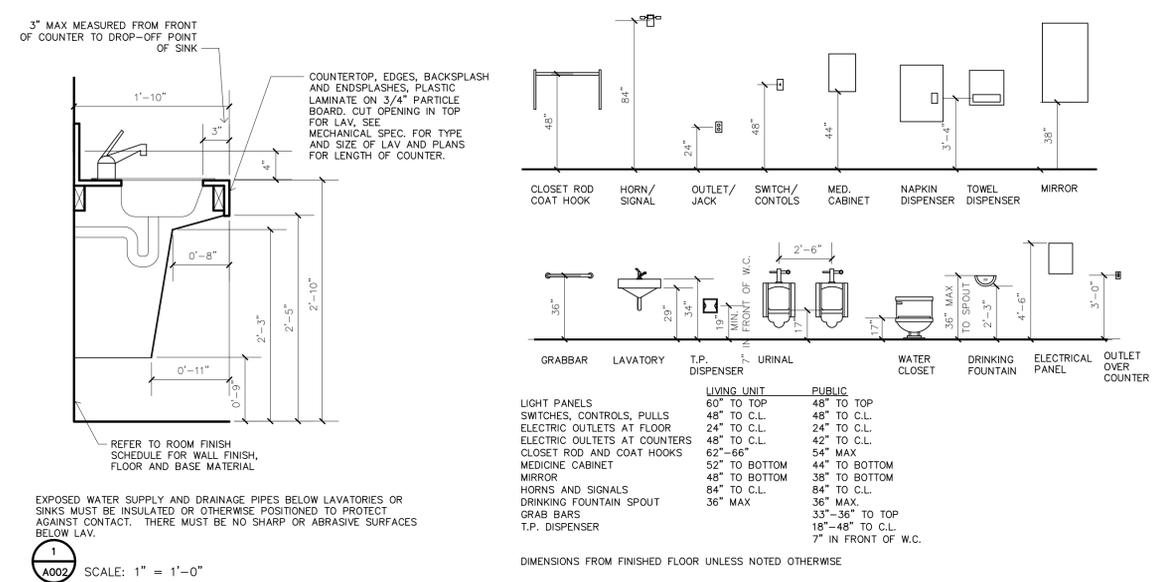
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1  
A001 STAIR SECTION  
SCALE: 1/2" = 1'-0"

APPLICABLE CODES			
BUILDING	2015 MICHIGAN REHABILITATION CODE FOR EXISTING BUILDINGS		
ACCESSIBILITY	INTERNATIONAL FIRE CODE 2009 ICC/ANSI A117.1 - ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES		
ENERGY CODE	2010 AMERICANS WITH DISABILITIES ACT ASHRAE 90.1 2013; IECC 2015		
MECHANICAL PLUMBING ELECTRICAL	2015 INTERNATIONAL MECHANICAL CODE 2015 INTERNATIONAL PLUMBING CODE 2017 NFPA 70 NATIONAL ELECTRICAL CODE		
SECTION #	CHAPTER 1	REQUIRED	PROVIDED
107.3.4	REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE		WAYDE HOPPE
107.3.4.1	THE FOLLOWING ITEMS ARE DEFERRED SUBMITTALS. DESIGN OF THESE ITEMS WILL BE SUBMITTED AFTER THE AWARD OF CONTRACT		
SECTION #	CHAPTER 3	REQUIRED	PROVIDED
USE AND OCCUPANCY CLASSIFICATION			
304.1	OCCUPANCY CLASSIFICATION BUSINESS		
	GROUP CLASSIFICATION GROUP B		
	USE CLASSIFICATION PROFESSIONAL SERVICES		VETERINARIAN SERVICES
304.1	OCCUPANCY CLASSIFICATION BUSINESS		
	GROUP CLASSIFICATION GROUP B		
	USE CLASSIFICATION TRAINING AND SKILL DEVELOPMENT		DANCE STUDIO
SECTION #	CHAPTER 5	REQUIRED	PROVIDED
BUILDING AREA			
	TYPE IIB CONSTRUCTION TYPE	TABULAR ALLOWABLE AREA PER FLR	
TABLE 506.2	BASIC TABULAR AREA FOR USE GROUP B WITHOUT SPRINKLER SYSTEM (NS)	19,000 SF	5,100 SF FIRST FLOOR; 2018 SF SECOND FLOOR; ALL FLOORS < 19,000 SF
SECTION #	CHAPTER 6	REQUIRED	PROVIDED
BUILDING CONSTRUCTION TYPE			
	CONSTRUCTION TYPE IIB		IIB
TABLE 601	FIRE RESISTANCE RATINGS		
TABLE 601	STRUCTURAL FRAME	0 HOURS	0 HOURS
TABLE 601	EXTERIOR BEARING WALLS	2 HOURS	2 HOURS
TABLE 601	INTERIOR BEARING WALLS	0 HOURS	0 HOURS
TABLE 601	EXTERIOR NON-BEARING WALLS/PARTITIONS	0 HOURS	0 HOURS
TABLE 601	INTERIOR NON-BEARING WALLS/PARTITIONS	0 HOURS	0 HOURS
TABLE 601	FLOOR CONSTRUCTION	0 HOURS	0 HOURS
TABLE 601	ROOF CONSTRUCTION	0 HOURS	0 HOURS
TABLE 602	EXTERIOR WALL FIRE RATING	0 HOURS	0 HOURS
SECTION #	CHAPTER 7	REQUIRED	PROVIDED
FIRE AND SMOKE PROTECTION FEATURES			
	FIRE RESISTANCE RATED CONSTRUCTION		
SECTION 705.8.1	EXTERIOR WALL OPENINGS		UNLIMITED PER EXCEPTION 1
TABLE 706.4	FIRE WALL RATING		NOT APPLICABLE
TABLE 707.3.10	FIRE BARRIER RATING		NOT APPLICABLE
SECTION 707.3.1	SHAFT ENCLOSURES		
SECTION 708	FIRE PARTITIONS		NOT APPLICABLE
SECTION 709	SMOKE BARRIERS		NOT APPLICABLE
SECTION 710	SMOKE PARTITIONS		NOT APPLICABLE
SECTION #	CHAPTER 8	REQUIRED	PROVIDED
INTERIOR FINISHES			
	OCCUPANCY B BUSINESS		B BUSINESS
	EXIT ENCLOSURES/ PASSAGEWAYS	CLASS A (0-25 FLAME SPREAD INDEX; 0-450 SMOKE DEVELOPED INDEX)	CLASS A (0-25 FLAME SPREAD INDEX; 0-450 SMOKE DEVELOPED INDEX)
	CORRIDORS	CLASS B (25-75 FLAME SPREAD INDEX; 450 SMOKE DEVELOPED INDEX)	CLASS B (25-75 FLAME SPREAD INDEX; 450 SMOKE DEVELOPED INDEX)
	ROOMS AND ENCLOSED SPACES	CLASS C (75-200 FLAME SPREAD INDEX; 450 SMOKE DEVELOPED INDEX)	CLASS C (75-200 FLAME SPREAD INDEX; 450 SMOKE DEVELOPED INDEX)
SECTION #	CHAPTER 9	REQUIRED	PROVIDED
FIRE PROTECTION SYSTEMS			
	GROUP B BUSINESS	NON REQUIRED	NONE PROVIDED
SECTION 907.2.1	FIRE ALARM AND DETECTION SYSTEM	NOT REQUIRED	NOT PROVIDED
SECTION 906.1	FIRE EXTINGUISHERS	REQUIRED	PROVIDED
SECTION #	CHAPTER 10	REQUIRED	PROVIDED
OCCUPANT LOAD			
	EXISTING BUILDING AREA FIRST FLOOR		
TABLE 1004.1.1	BUSINESS	100 (GROSS)	679 / 100 = 7
TABLE 1004.1.1	EXERCISE	50 (GROSS)	2243 / 50 = 45
TABLE 1004.1.1	UNCONCENTRATED (TABLES AND CHAIRS)	15 (NET)	1206 / 15 = 81
TABLE 1004.1.1	MECHANICAL/ ACCESSORY STORAGE	300 (GROSS)	283 / 300 = 1
	TOTAL FIRST FLOOR		135
	EXISTING BUILDING AREA SECOND FLOOR		
TABLE 1004.1.1	EXERCISE	50 (GROSS) SECOND FLOOR	1508 / 50 = 32
TABLE 1004.1.1	MECHANICAL/ ACCESSORY STORAGE	300 (GROSS)	598 / 300 = 2
	TOTAL SECOND FLOOR		34
MEANS OF EGRESS			
	B BUSINESS		
	STAIRWAYS	NA	NA
TABLE 1017.2	OTHER EGRESS COMPONENTS: 2' / PERSON	165 PEOPLE X 2' / PERSON = 33 INCHES	108 INCHES
	TRAVEL DISTANCE B NON SPRINKLED	200'	107' FIRST FLOOR; 92' SECOND FLOOR
SECTION 1020.2	CORRIDOR WIDTH	44 INCHES (MIN.)	NOT APPLICABLE
TABLE 1020.1	CORRIDOR RATING B NON SPRINKLED	1 HOUR	NOT APPLICABLE
TABLE 1006.2.1	SPACES WITH ONE EXIT EGRESS (SECOND FLOOR)	MAX OCC LOAD = 49; OCC LOAD < OR EQUAL TO 30 THEN TRAVEL DISTANCE = 100' MAX	SECOND FLOOR OCC LOAD = 34; TRAVEL DISTANCE IS 92'; TWO EXIT ACCESS REQUIRED
TABLE 1006.3.1	NUMBER OF EXITS	1 MIN	3 PROVIDED
SECTION #	CHAPTER 11	REQUIRED	PROVIDED
ACCESSIBILITY			
SECTION 1104.4	AN ACCESSIBLE ROUTE IS NOT REQUIRED TO STORES < 3000 SF	NO ELEVATOR REQUIRED	NO ELEVATOR PROVIDED
SECTION #	MICHIGAN PLUMBING CODE	REQUIRED	PROVIDED
	B BUSINESS		
	WATER CLOSETS	1.25 FOR FIRST 50, THEN 1.50 FOR THE REMAINDER	50/25 = 2; 135-50 = 85; 85/50 = 2; 2 + 2 = 3 REQUIRED; 4 PROVIDED
	LAVATORIES	1.40 FOR FIRST 50, THEN 1.80 FOR REMAINDER	50/40 = 2; 135-50 = 85; 85/80 = 2; 2 + 2 = 4 REQUIRED; 4 PROVIDED
	DRINKING FOUNTAIN	1/100	165/100 = 2 REQUIRED; 2 PROVIDED
	SERVICE SINK	1 REQUIRED	1 PROVIDED

MICHIGAN REHABILITATION CODE FOR EXISTING BUILDINGS			
SECTION #	REQUIRED	PROVIDED	
SECTION #	CHAPTER 4	REQUIRED	PROVIDED
WORK AREA METHOD			
403	ALTERATIONS SHALL COMPLY WITH THE MBC		SEE MBC REVIEW ABOVE
410.1	WHEN THERE IS A CHANGE IN USE GROUP OR OCCUPANCY LOAD THEN CHANGES MUST BE ACCESSIBLE		
SECTION #	CHAPTER 7	REQUIRED	PROVIDED
ALTERATIONS LEVEL 1			
SECTION #	CHAPTER 8	REQUIRED	PROVIDED
ALTERATIONS LEVEL 2			
803.2.1	OPENING ENCLOSURE EXCEPTIONS 1. WHERE NO ENCLOSURE OF VERTICAL OPENINGS IS REQUIRED BY THE MBC 4. A 30 MIN ENCLOSURE IS TO BE PROVIDED TO PROTECT ALL VERTICAL OPENINGS LESS THAN OR EQUAL TO THREE STORES MEET THE INTERIOR FINISH REQUIREMENTS OF THE MBC		PROVIDED
803.4	GUARDS TO BE PROVIDED PER THE MBC		PROVIDED
803.5	FIRE ALARM	NOT REQUIRED	NOT PROVIDED
804.4	THE NUMBER OF EXITS IS TO BE DETERMINED BY THE OCCUPANT LOAD PER THE MBC		PROVIDED
805.3	IF OCCUPANT LOAD IS GREATER THAN 100 OR WHERE WORK AREA IS GREATER THAN 50% OF THE FLOOR AREA PROVIDE PANIC HARDWARE		
805.4.4	DEAD ENDS LIMITED TO 35'		NONE PROVIDED
805.6	EXIT SIGNS		PROVIDED
805.9	HANDRAILS		PROVIDED
805.11	GUARDS PER THE MBC		PROVIDED
806.1	COMPLY WITH ACCESSIBILITY OF 410		
410.3	ACCESSIBILITY GREATER THAN WHAT IS REQUIRED FOR NEW CONSTRUCTION IS NOT REQUIRED		NO ELEVATOR PROVIDED
410.6, EXCEPTION 2	ACCESSIBLE MEANS OF EGRESS NOT REQUIRED IN AN EXISTING BUILDING		



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

**CODE REVIEW**

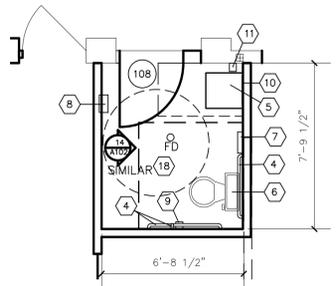
**A002**

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

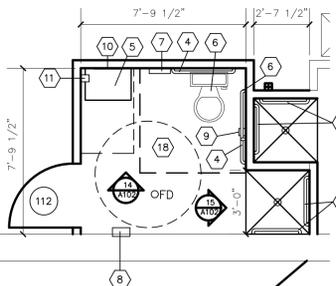
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47032 MERRIDE, BELLEVILLE, MI 48111  
734-215-2492

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

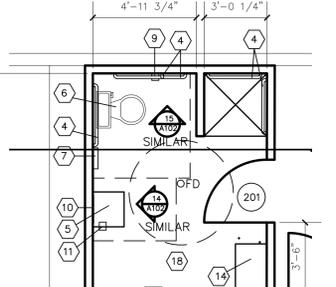
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3 A101 L.S. PLAN TOILET 108  
SCALE: 1/4" = 1'-0"



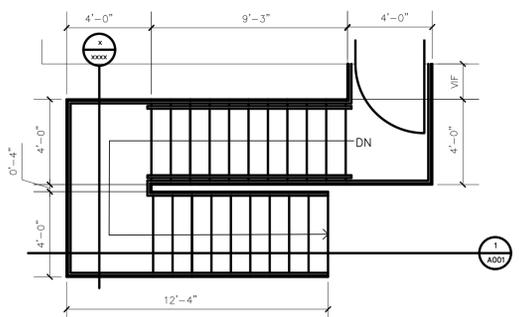
4 A101 L.S. PLAN TOILET 112  
SCALE: 1/4" = 1'-0"



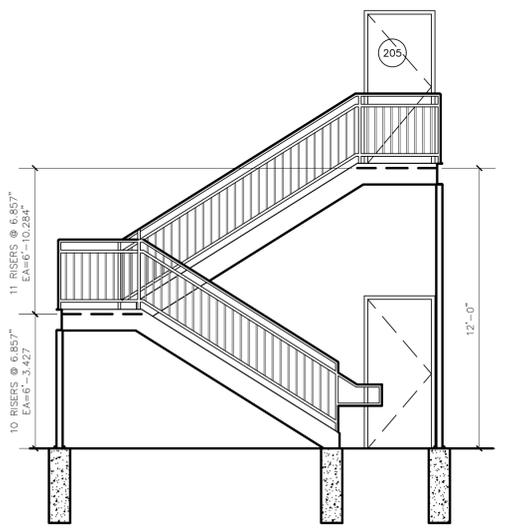
5 A101 L.S. PLAN TOILET 201  
SCALE: 1/4" = 1'-0"

KEYNOTES (X)

1. PROVIDE INFILL CONSTRUCTION TO MATCH ADJACENT
2. 1" 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

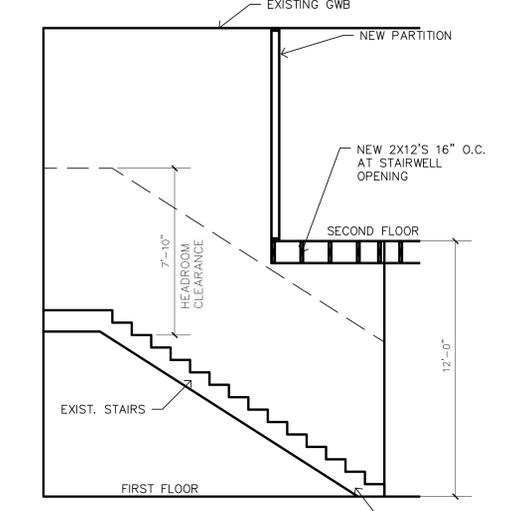


6 A101 L.S. EXTERIOR STAIR 203  
SCALE: 1/4" = 1'-0"

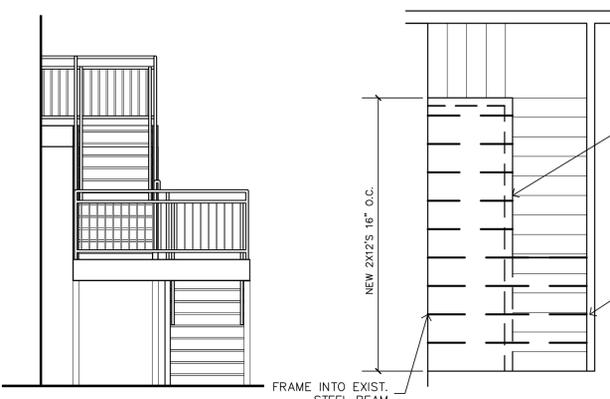
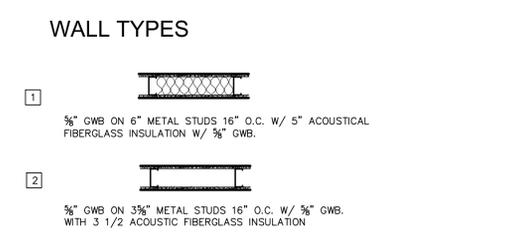


7 A101 EXTERIOR STAIR ELEVATION  
SCALE: 1/4" = 1'-0"

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

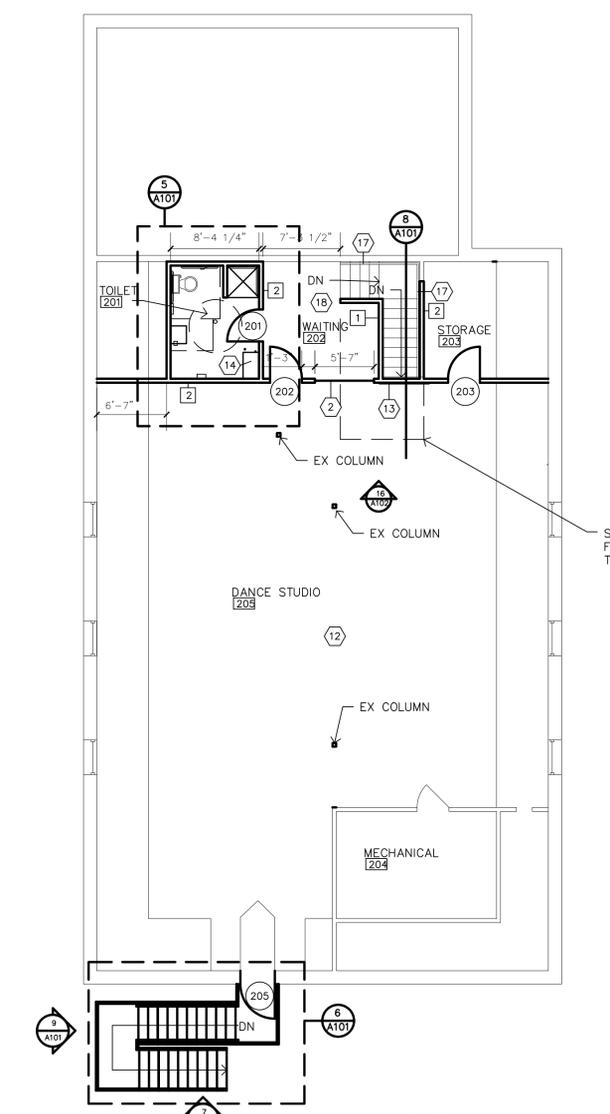


8 A101 STAIR SECTION  
SCALE: 1/4" = 1'-0"

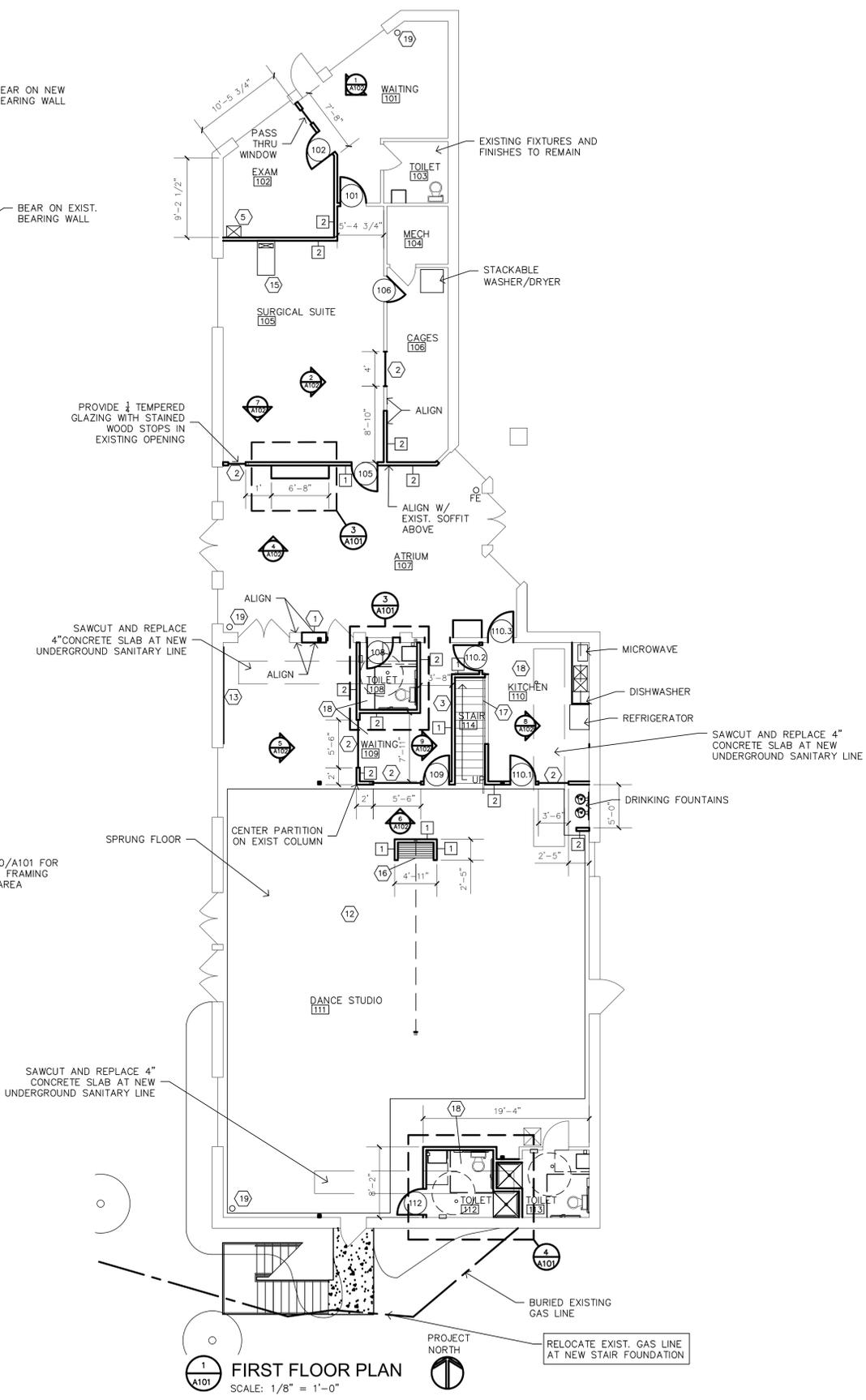


9 A101 STAIR ELEVATION  
SCALE: 1/4" = 1'-0"

10 A101 INTERIOR STAIR FRAMING PLAN  
SCALE: 1/4" = 1'-0"



2 A101 SECOND FLOOR PLAN  
SCALE: 1/8" = 1'-0"



1 A101 FIRST FLOOR PLAN  
SCALE: 1/8" = 1'-0"

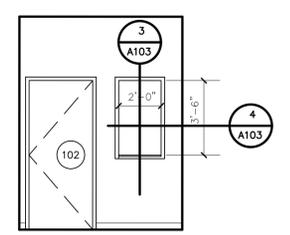
NOTES

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

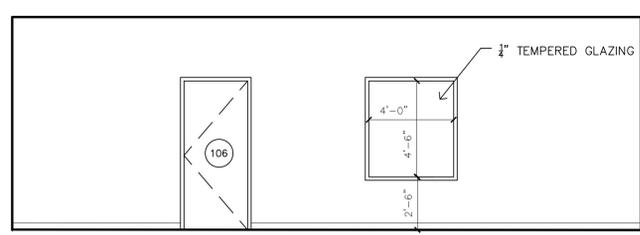
FLOOR PLAN

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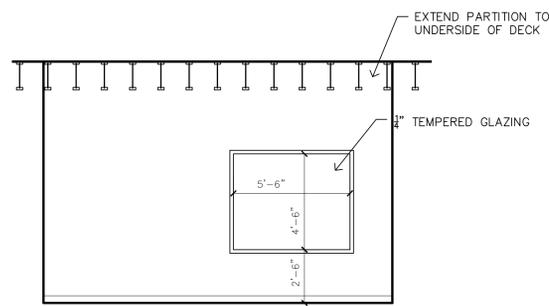
**GAS FIREPLACE AS MFRD BY SUPERIOR**  
DRL 6060, 60" LONG DIRECT VENT GAS FIREPLACE. PROVIDE BLACK TRIM, RIVERROCK MEDIA, CERAMIC GLASS OPENING, HEAT CIRCULATING BLOWER, MULTI FUNCTION REMOTE, ELECTRONIC IGNITION, INTEGRATED TILE STOPS. BLACK PORCELAIN LINER, FLOOR LIGHTING. 20 YR. WARRANTY VERIFY W/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



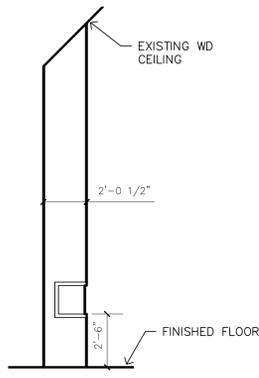
1 INTERIOR ELEVATION  
SCALE: 1/4" = 1'-0"



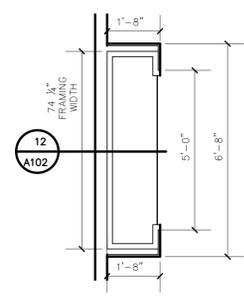
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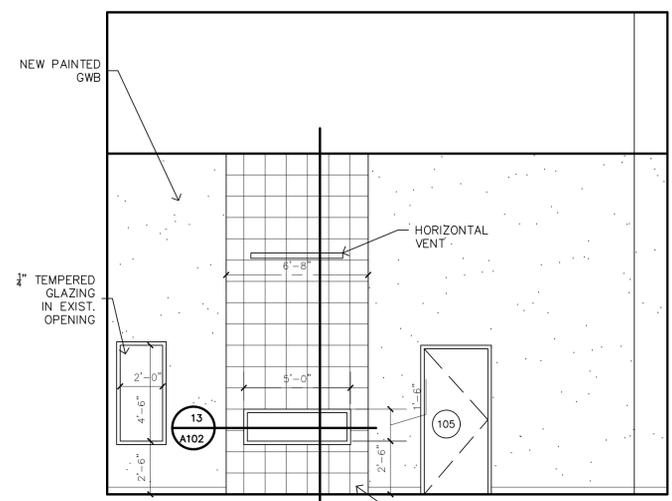
5 INTERIOR ELEVATION  
SCALE: 1/4" = 1'-0"



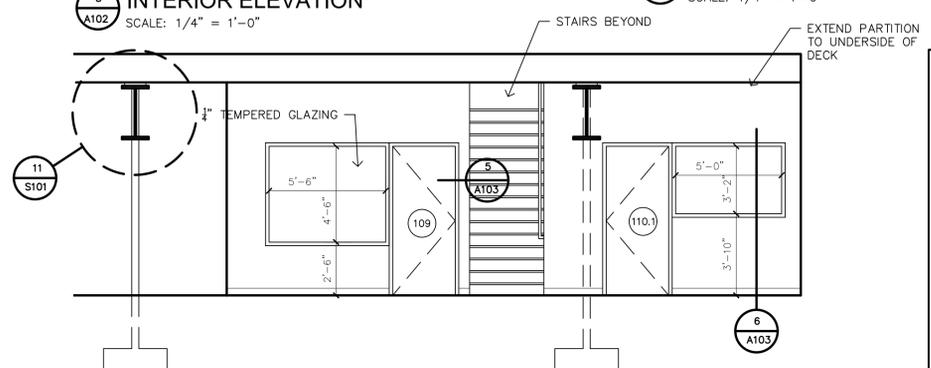
12 FIREPLACE SECTION  
SCALE: 1/4" = 1'-0"



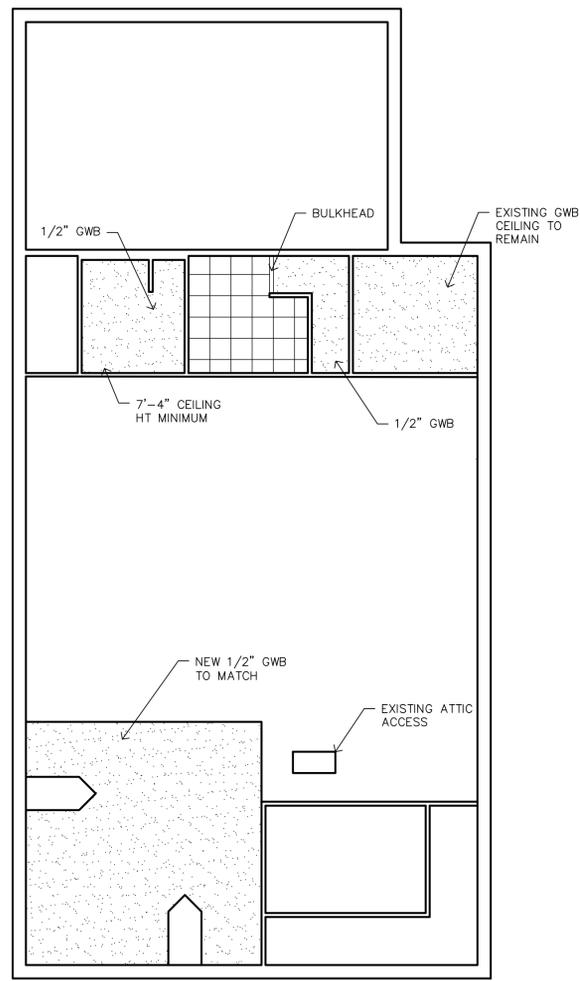
13 FIREPLACE PLAN  
SCALE: 3/8" = 1'-0"



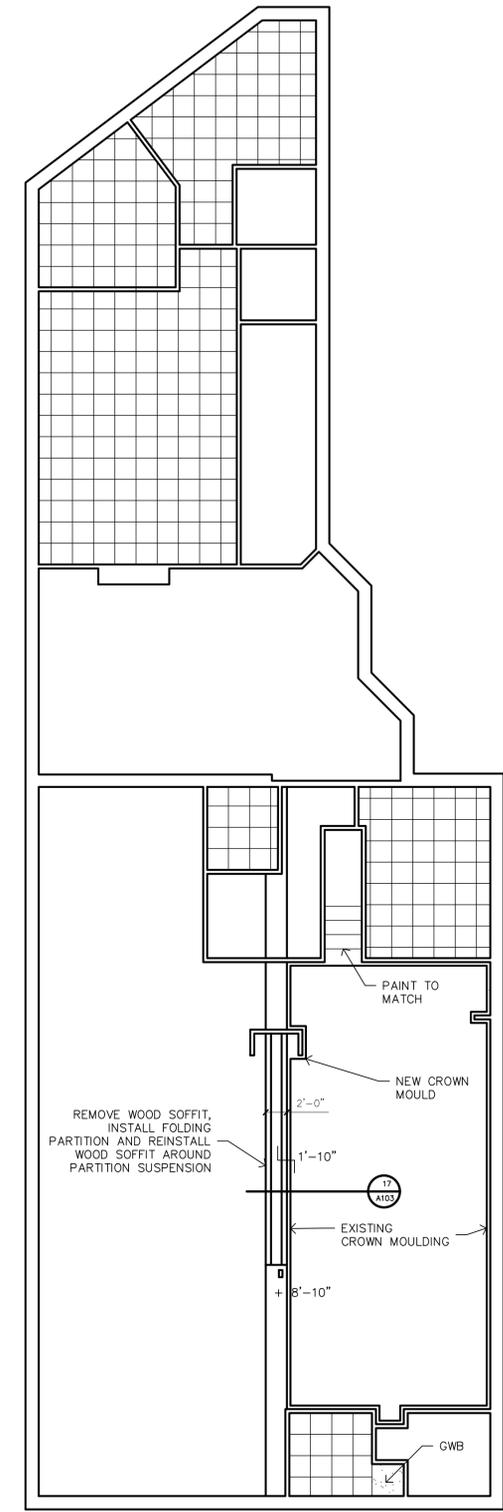
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SCALE: 1/4" = 1'-0"



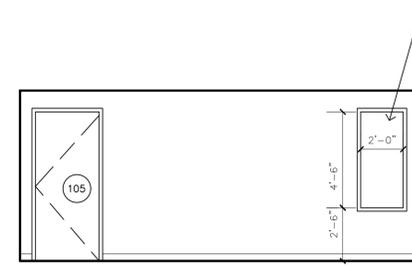
6 INTERIOR ELEVATION  
SCALE: 1/4" = 1'-0"



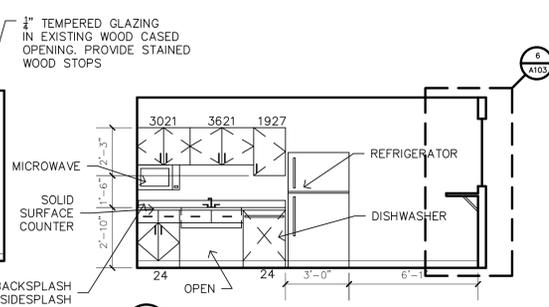
10 REF CEILING PLAN  
SCALE: 1/8" = 1'-0"



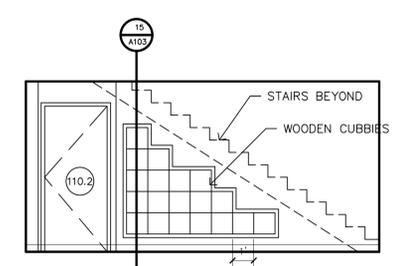
11 REF CEILING PLAN  
SCALE: 1/8" = 1'-0"



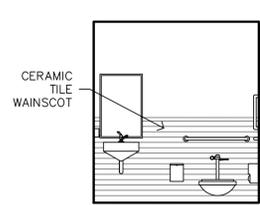
7 INTERIOR ELEVATION  
SCALE: 1/4" = 1'-0"



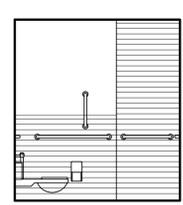
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SCALE: 1/4" = 1'-0"



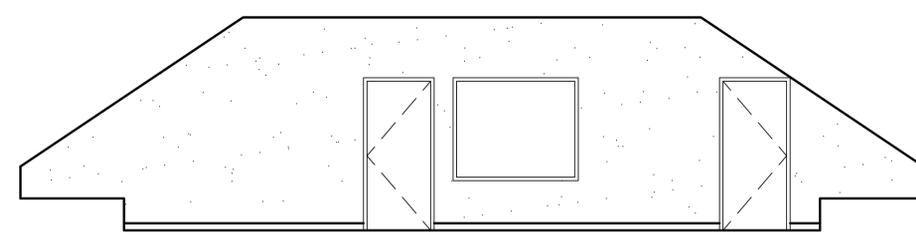
9 INTERIOR ELEVATION  
SCALE: 1/4" = 1'-0"



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**

A102

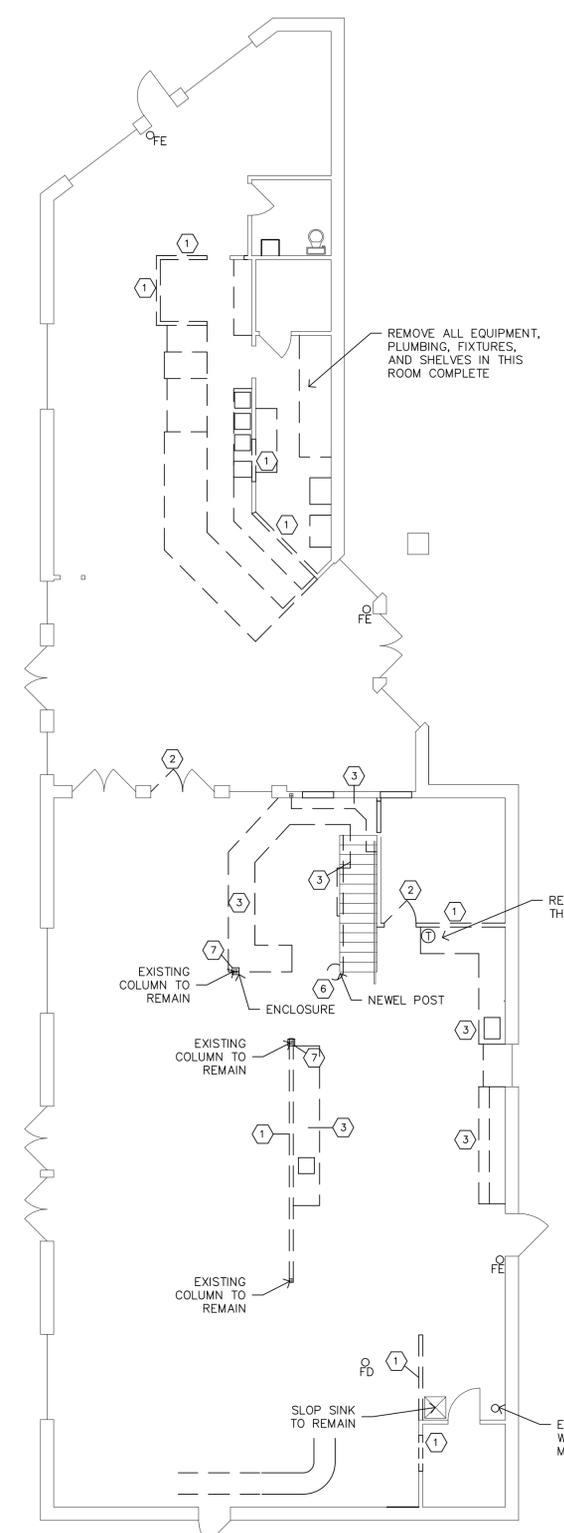
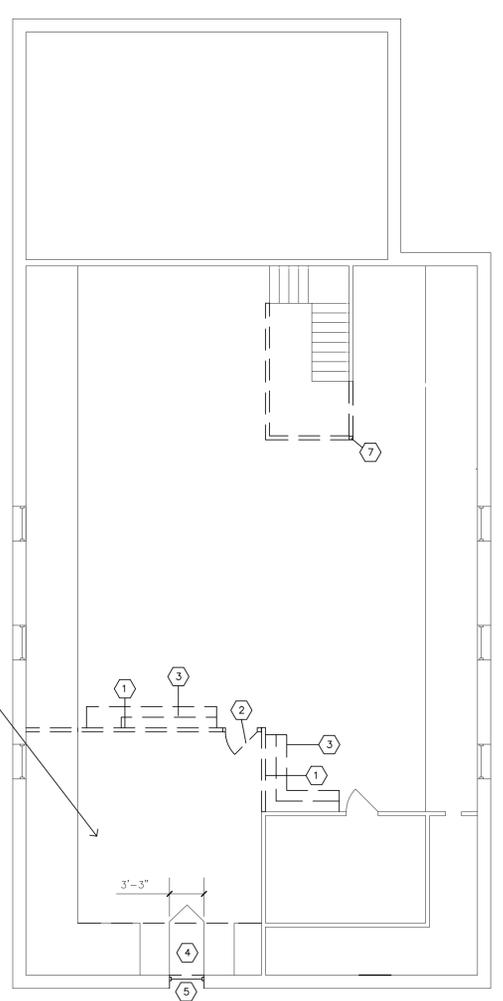
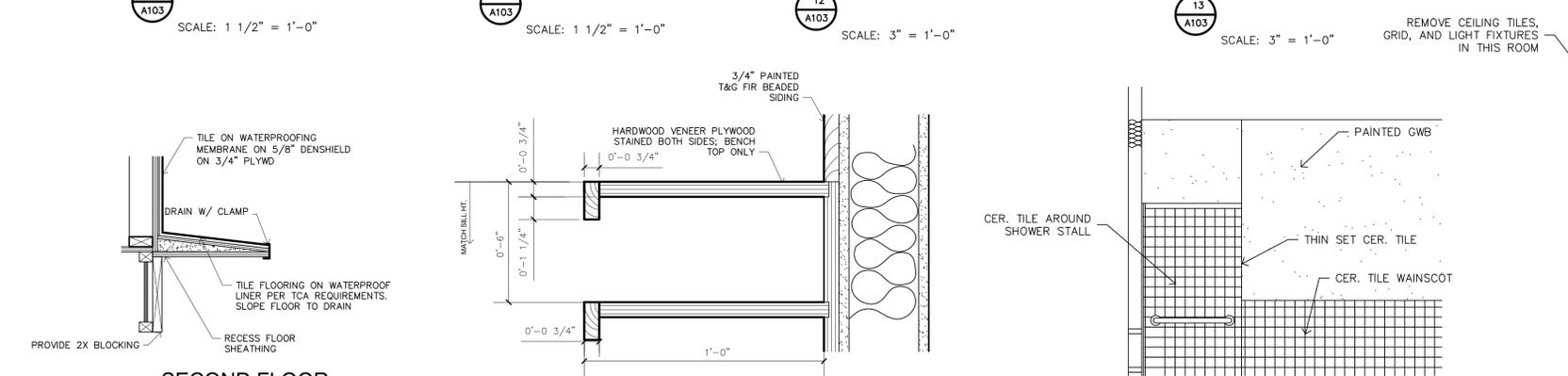
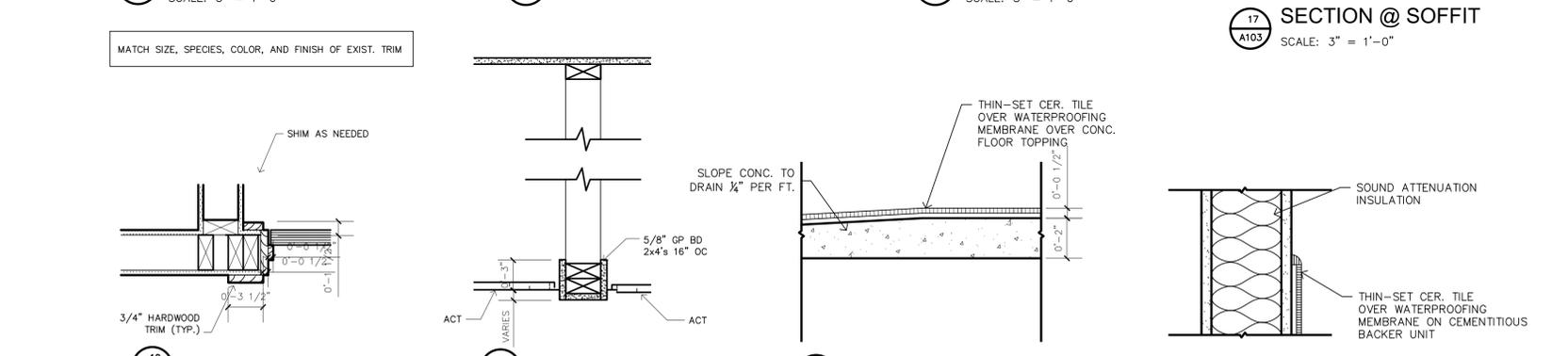
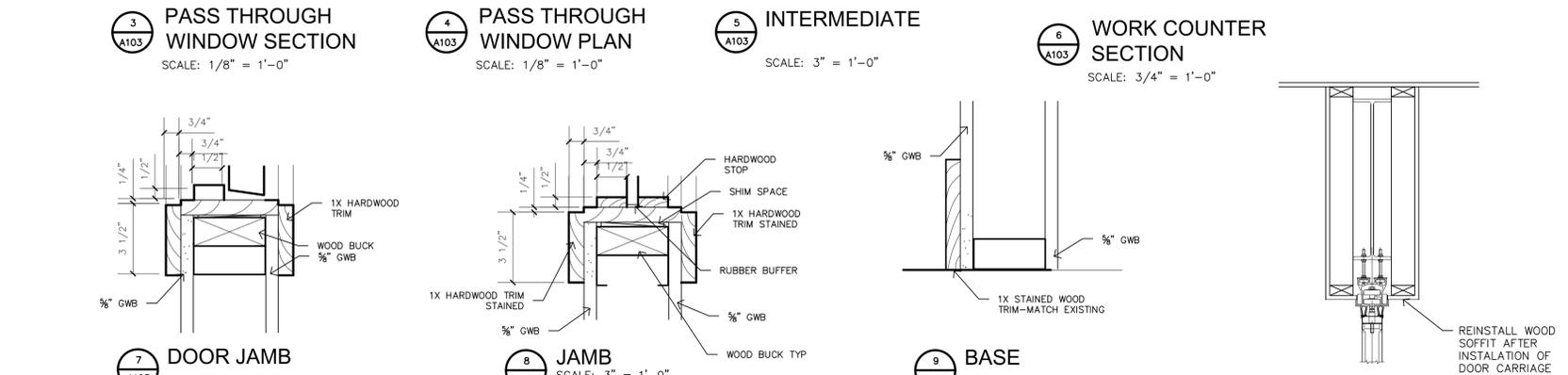
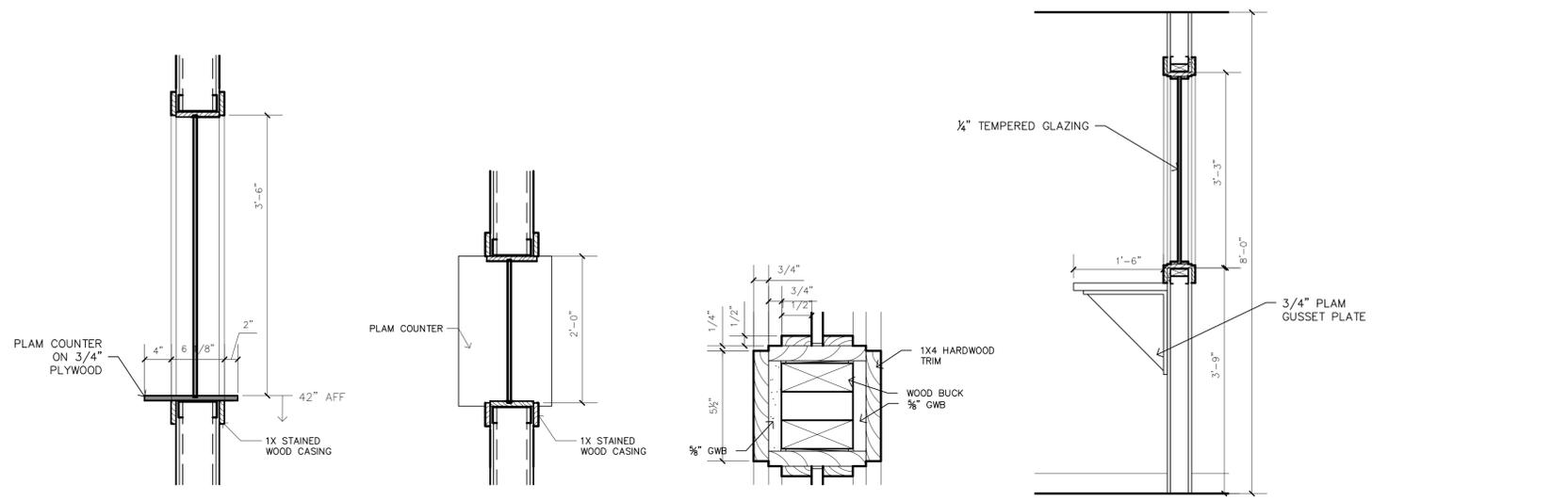
**PRELIMINARY NOT TO BE USED FOR CONSTRUCTION  
VERIFY ALL DIMENSIONS IN FIELD**

**DEMOLITION KEYNOTES**

1. REMOVE PARTITION
2. REMOVE DOOR, FRAME, AND HARDWARE, SALVAGE AND REUSE
3. REMOVE COUNTER AND MILLWORK AND SALVAGE
4. REMOVE DUCT ENCLOSURE, RE-ROUTE DUCT WORK
5. REMOVE EXTERIOR WINDOW AND FRAMING/MASONRY TO PROVIDE NEW DOOR OPENING
6. REMOVE WD. RAILING AND NEWEL POST
7. REMOVE WOOD ENCLOSURES AND TRIM

**NOTES**

1. TRIM, CASING, BASE, AND CABINETS SCHEDULED TO BE REMOVED ARE TO BE TURNED OVER TO OWNER.
2. SALVAGE ALL KITCHEN EQUIPMENT AND TURN OVER TO OWNER



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



**LEGEND**

- GATE VALVE
- GLOBE VALVE
- BALL VALVE
- CHECK VALVE
- 2-WAY CONTROL VALVE
- 3-WAY CONTROL VALVE
- LUBRICATED PLUG VALVE
- 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**

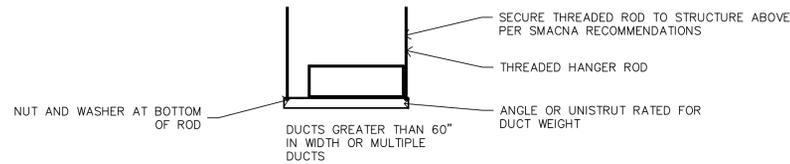
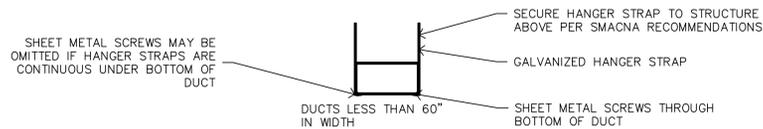
1. ALL WORK IS TO BE PROVIDED AND PERFORMED ACCORDING TO ALL STATE AND LOCAL CODES.
2. ALL EXHAUST OUTLETS AND OUTSIDE AIR INLETS SHALL BE A MINIMUM OF 15' APART.
3. EQUIPMENT NOISE SHALL NOT EXCEED 55 DECIBELS AT THE LOT LINE.
4. ALL DUCT WORK SHALL BE FABRICATED OF SHEET METAL AND IN ACCORDANCE WITH 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		HB	HINGED BASE			
GBD	GRAVITY BACKDRAFT DAMPER		RC	18" INSULATED ROOF CURB			
VSC	VARIABLE SPEED CONTROLLER		HK	HANGING KIT WITH VIBRATION INSULATOR			

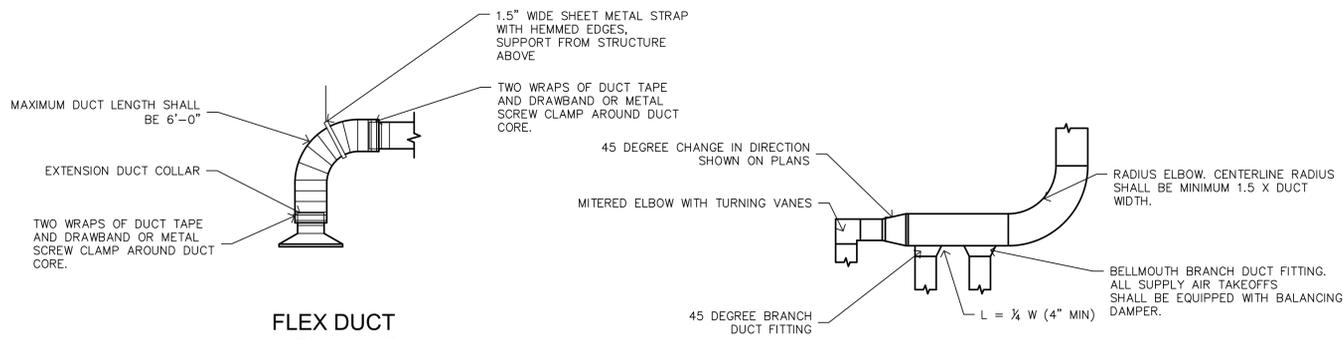
GRILLES, REGISTERS AND DIFFUSERS SCHEDULE										
TYPE	MANUFACTURER	CATALOG NO.	APP	FINISH	FRAME TYPE	VOLUME DAMPER	MAX NC (DB)	MIN THROW (FT)	MAX THROW (FT)	MAX PRESS. DROP
A	TITUS		SUP	WHITE	T-BAR/ FLANGE	YES	30	8	24	0.1
B	TITUS		RET	WHITE	T-BAR/ FLANGE	NO	30	-	-	0.1
C	TITUS		SUP	WHITE	FLANGE	NO	30	23	60	0.1

EXH EXHAUST  
1 THROWS ARE BASED ON 50 FEET PER MINUTE VELOCITY  
2 OPPOSED BLADE DAMPERS SHALL BE PROVIDED ON ALL DIFFUSERS REQUIRING BOLUME DAMPERS  
3 PROVIDE T-BAR OR FLANGE FRAME AS NOTED BY "T" OR "F" DESIGNATION IN DIFFUSER TAG ON PLANS

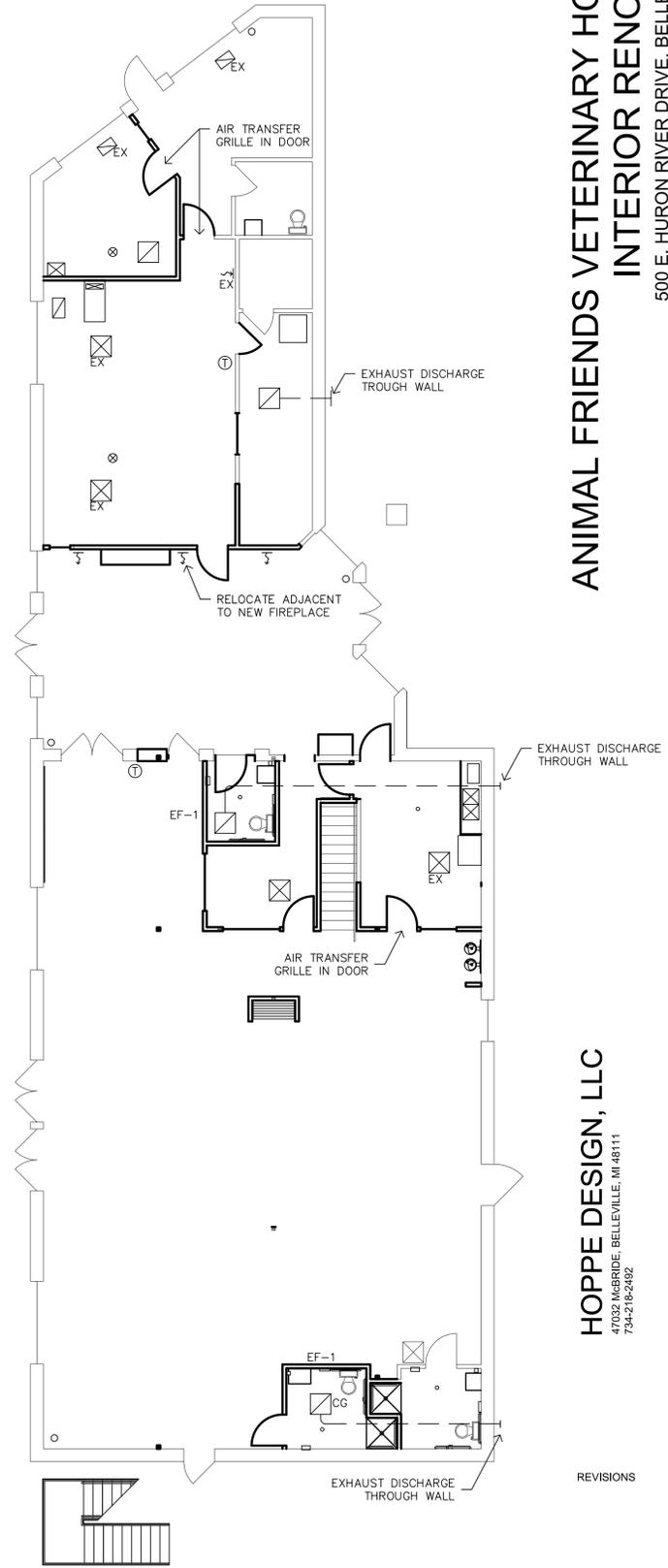
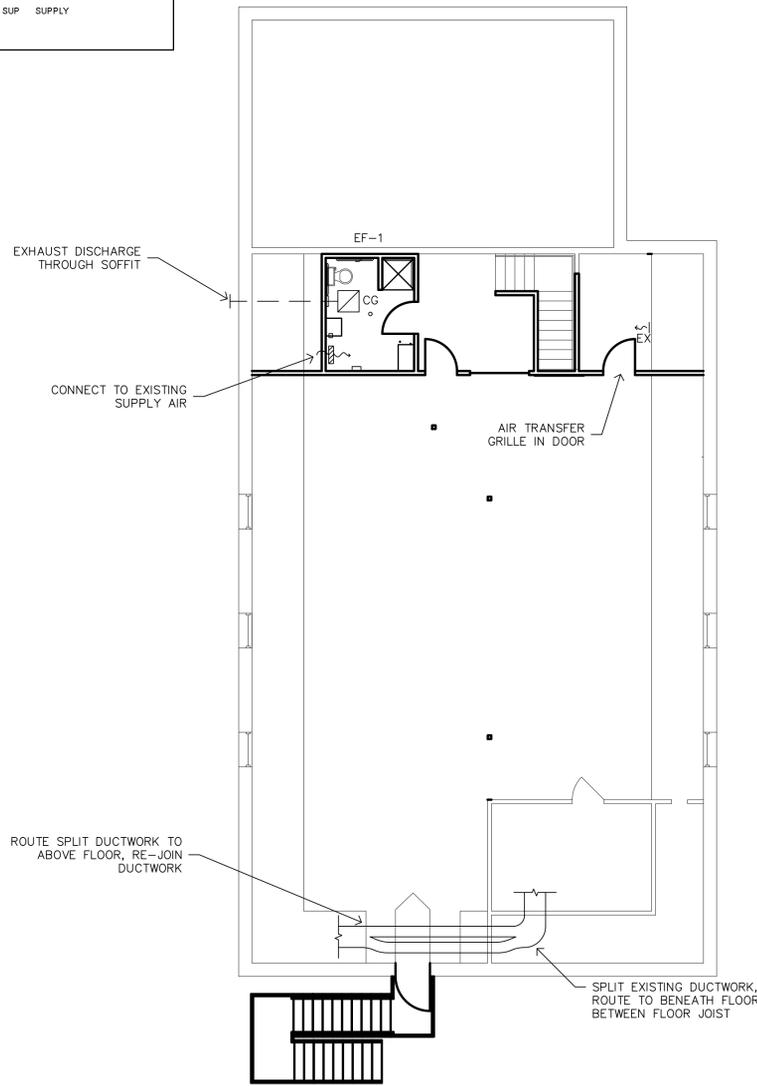
RET RETURN  
SUP SUPPLY



**DUCTWORK SUPPORT**



**PRELIMINARY NOT TO BE USED FOR CONSTRUCTION**



**HVAC PLAN**

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**M101**

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

**HOPPE DESIGN, LLC**  
47032 MEBRIDE, BELLEVILLE, MI 48111  
734-215-2492

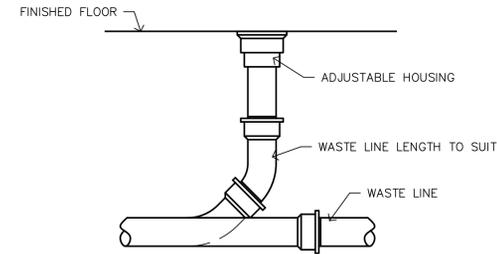
REVISIONS

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

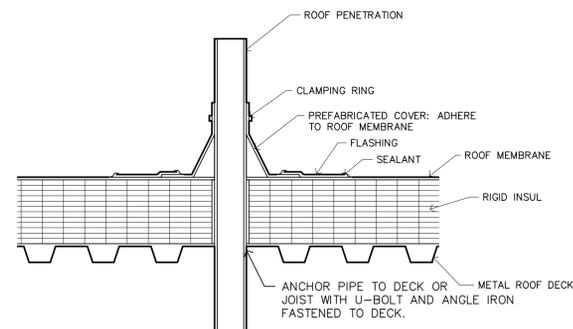
**LEGEND**

- GATE VALVE
- GLOBE VALVE
- BALL VALVE
- CHECK VALVE
- 2-WAY CONTROL VALVE
- 3-WAY CONTROL VALVE
- LUBRICATED PLUG VALVE
- BALL VALVE W/ MEMORY STOP
- CIRCUIT SETTER
- PRESSURE REDUCING VALVE
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- 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
- 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-84325-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	10	4	4"	2"	1"	-	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 GRID DRAIN; P-TRAP, STOP SUPPLY KIT; TRAP WRAP AND ASSE 1070 THERMOSTATIC MIXING VALVE	K-13460 TOUCHLESS FAUCET, CR-19 STOPS AND SUPPLES, OFFSET GRID DRAIN, 17 GA. C.P. P-TRAP	0.5 GPM	1.5	1.5	1	1 1/2"	1 1/2"	1/2"	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	0.5 GPM	1.5	1.5	1	1 1/2"	1 1/2"	1/2"	BARRIER FREE COMPLIANT; BARRIER FREE TRAP, TRUEBRO LAV GUARD HW INSUL. KIT; SOLID BRASS FAUCET	
SK-1	SINK	ELKAY	LRAD291685	LKQZ4378HP FAUCET, CR-19 STOPS AND SUPPLES, OFFSET GRID DRAIN, 17 GA. C.P. P-TRAP									
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	



**3 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**  
SCALE: 1 1/2"=1'-0"

**PLUMBING NOTES**

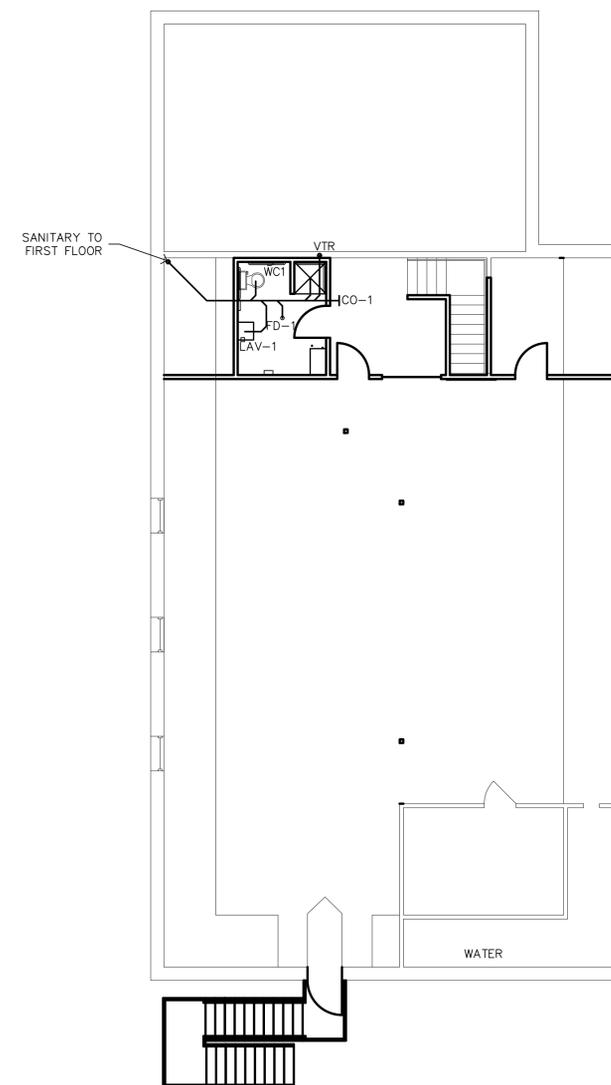
1. PLUMBING CONTRACTOR RESPONSIBLE TO SIZE ALL WASTE, SUPPLY, VENTS, DRAINS, TRAPS, ETC TO PROVIDE COMPLETE SYSTEM THAT IS IN COMPLIANCE WITH ALL CODES AND REGULATIONS.
2. THE PLUMBING DRAWINGS ARE SCHEMATIC ONLY. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE FINAL LAYOUT AND ROUTING OF 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**

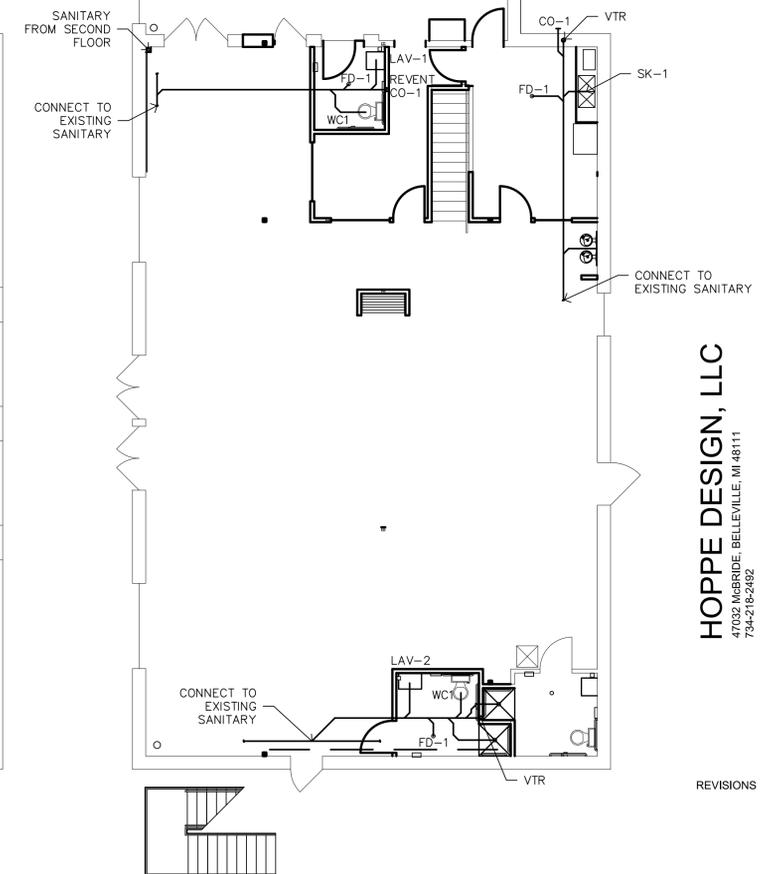
	HW	CW	WASTE
WATER CLOSET TANK	1"	1"	3"
WATER CLOSET FLUSH VALVE	1"	1"	3"-4"
URINALS	1"	1"	2"
SERVICE SINK	1 1/2"	1 1/2"	3"
ELECTRIC WATER COOLER	1"	1"	1 1/2"
WASH BASIN	1"	1"	1 1/2"
SINKS/LAVATORIES	1"	1"	3"
SHOWER STALLS	1"	1"	3"
FLOOR DRAIN	1"	1"	3"

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

**PRELIMINARY NOT TO BE USED FOR CONSTRUCTION**



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



**2 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

HOPPE DESIGN, LLC  
47032 MERRIDIE, BELLEVILLE, MI 48111  
734-215-2492

REVISIONS

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

**P101**

**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 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
-  SUPPLY DIFFUSER
-  RETURN GRILLE
-  EXHAUST GRILLE

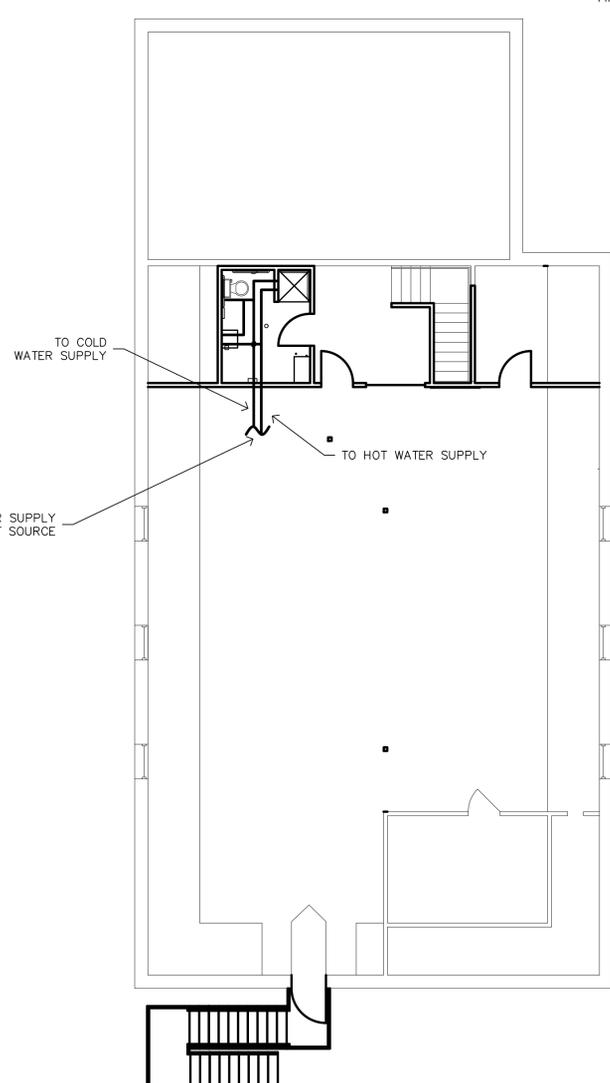
**PLUMBING NOTES**

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.

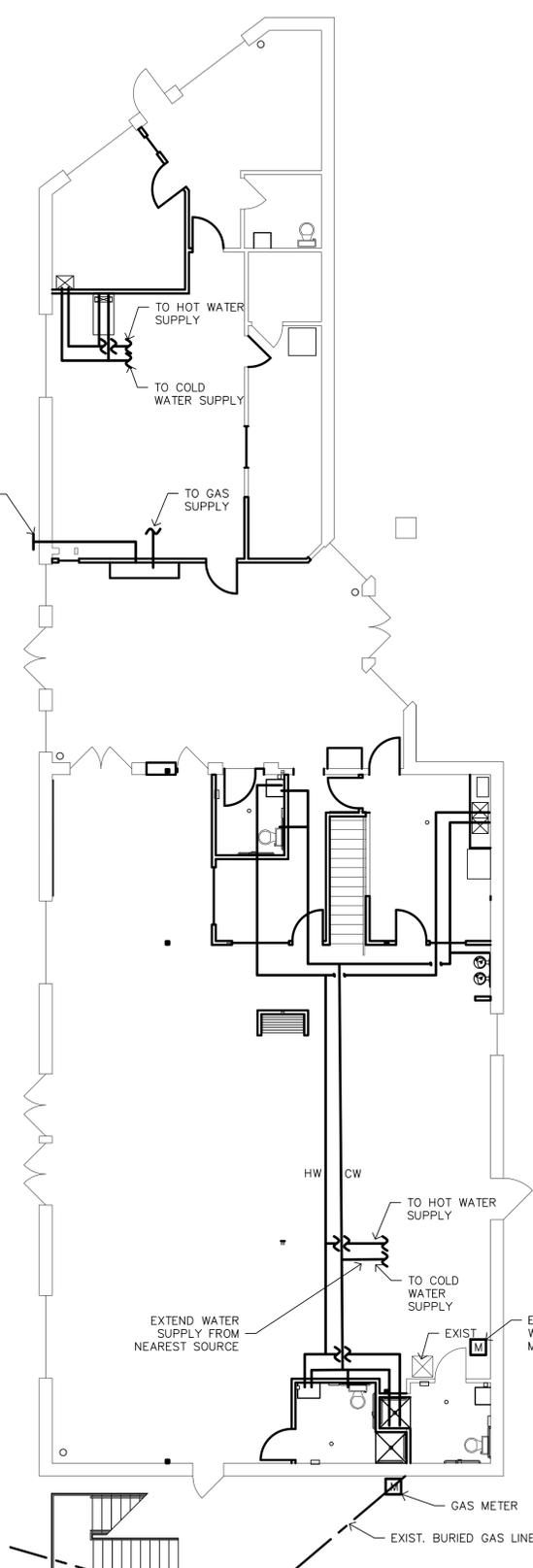
**PLUMBING PIPING REQUIREMENTS**

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

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



**1 SECOND FLOOR SUPPLY PLUMBING PLAN**  
SCALE: 1/8" = 1'-0"  
PROJECT NORTH



**2 FIRST FLOOR SUPPLY PLUMBING PLAN**  
SCALE: 1/8" = 1'-0"  
PROJECT NORTH

**SUPPLY PLUMBING PLAN**

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PROJECT: 2202  
DATE: 5.30.22  
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**P102**

**PRELIMINARY NOT TO BE USED FOR CONSTRUCTION**

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	

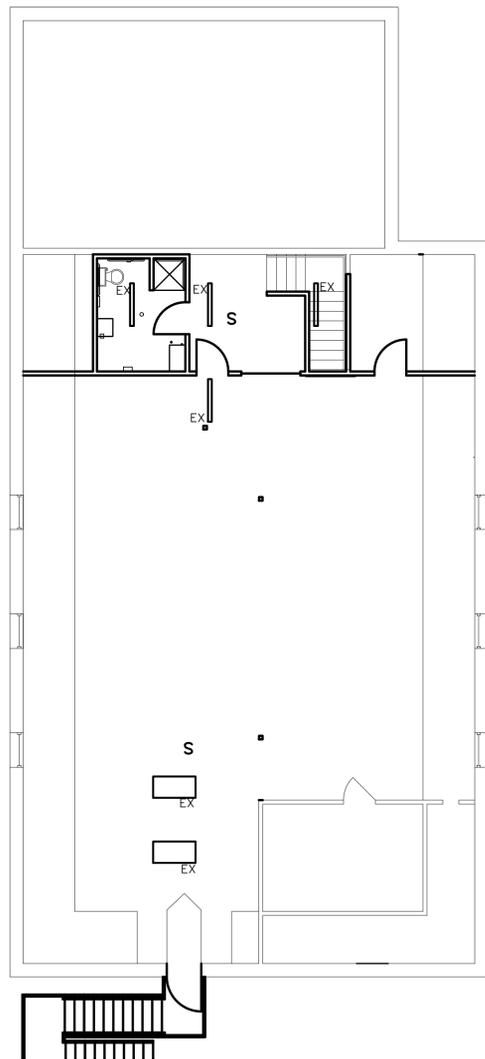
VERIFY FIXTURE SELECTIONS WITH OWNER

**LEGEND**

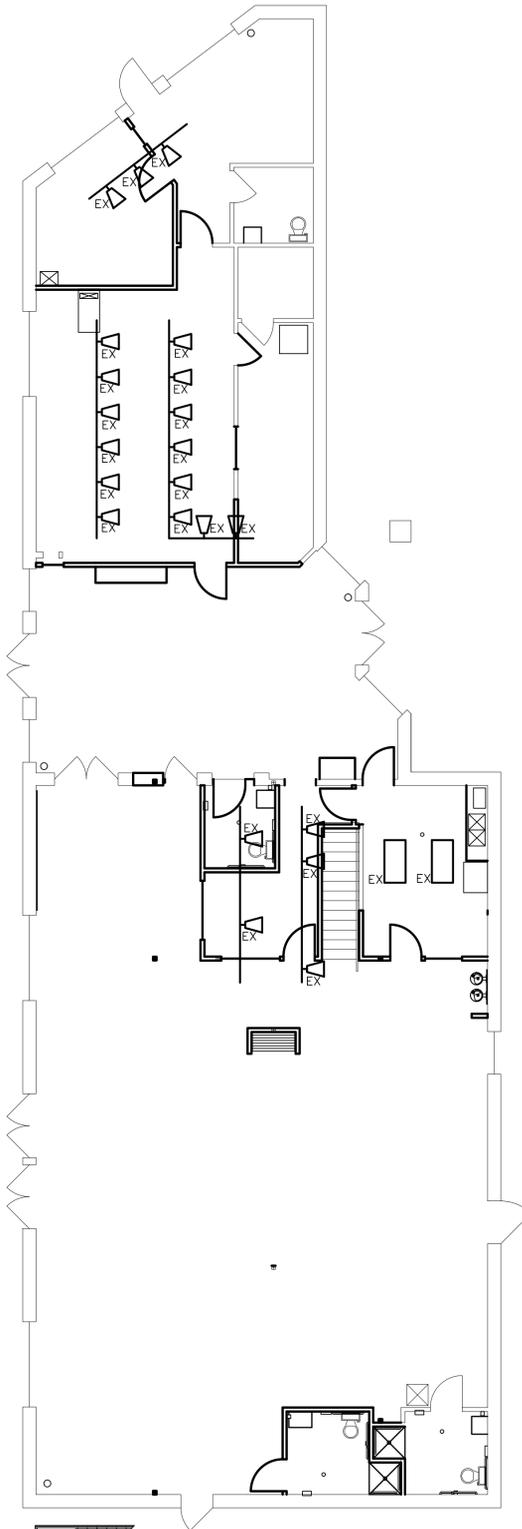
- SWITCH ON RHEOSTAT
- THREE WAY SWITCH
- SWITCH WITH PILOT
- SWITCH
- SPECIAL OUTLET
- DUPLEX OUTLET
- QUAD OUTLET
- WEATHERPROOF OUTLET
- GROUND FAULT INTERRUPTER
- TELEPHONE/ COMPUTER
- SMOKE DETECTOR
- TELEVISION/ CABLE
- CEILING MOUNTED LIGHT FIXTURE
- CEILING MOUNTED LIGHT FIXTURE RECESSED
- WALL 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**

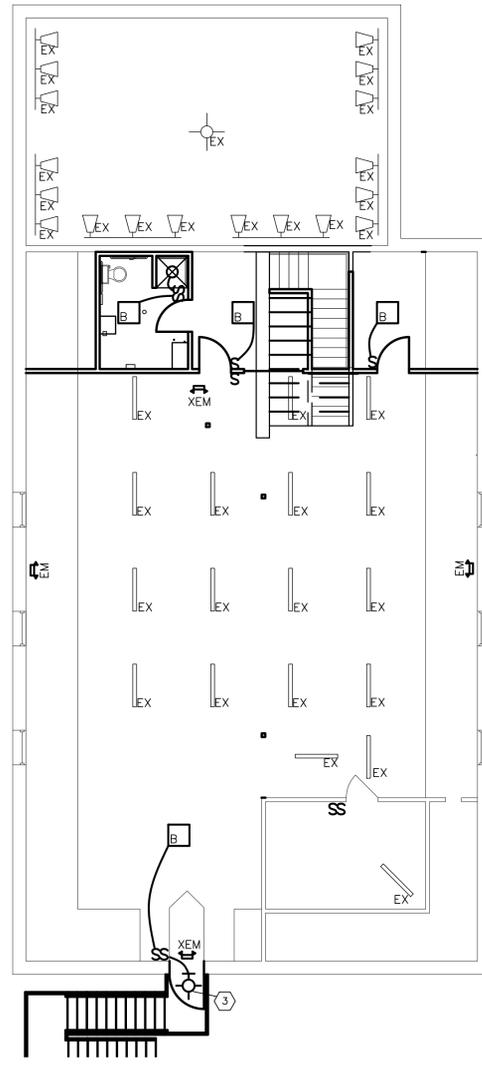
1. OCCUPANCY SENSOR EQUAL TO WATTSTOPPER ST-200
2. EXHAUST FAN TO BE CONTROLLED WITH LIGHTS BY OCCUPANCY SENSOR.
3. INSTALL REMOTE EMERGENCY FIXTURE ABOVE DOOR.



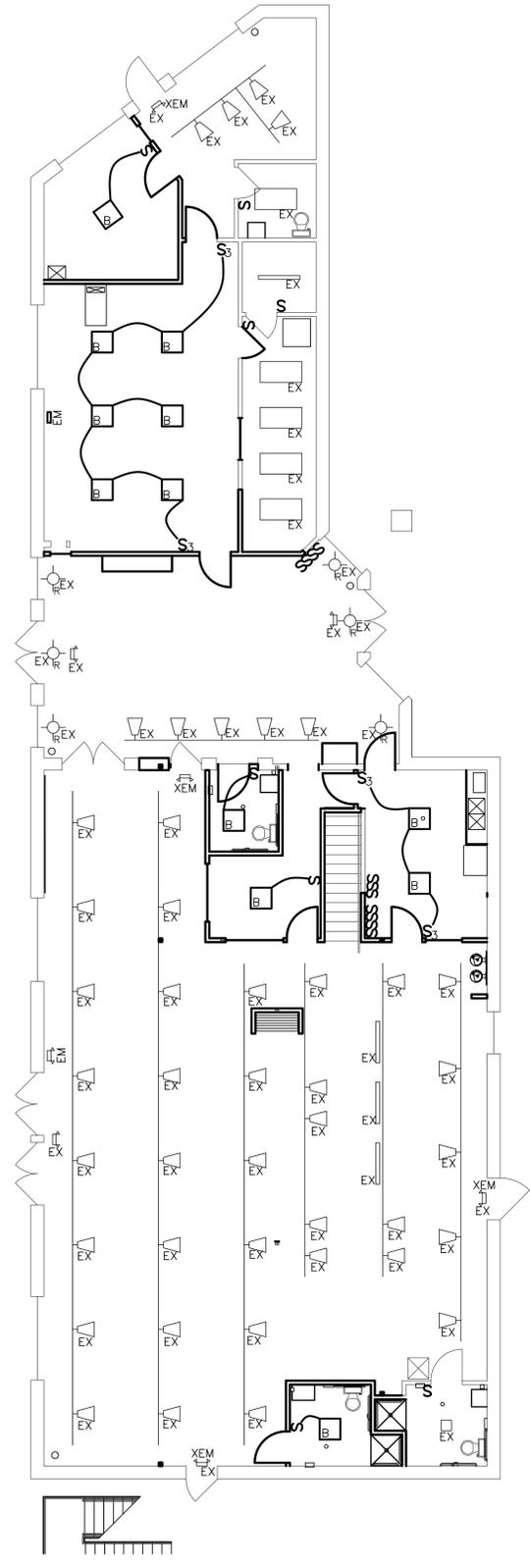
**1 SECOND FLOOR LIGHTING DEMOLITION PLAN**  
SCALE: 1/8" = 1'-0"  
PROJECT NORTH



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



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



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

**ELECTRICAL NOTES**

1. ALL ELECTRICAL WORK SHALL COMPLY WITH THE N.E.C., COUNTY AND LOCAL CODES, ORDINANCES, AND REGULATIONS INCLUDING MIOSHA.
2. COORDINATE ALL UNDERGROUND WORK WITH NEW AND EXISTING UNDERGROUND UTILITIES BEFORE INSTALLATIONS.
3. THE SECONDARY UNDERGROUND CONDUIT AND WIRE SHALL MEET THE REQUIREMENTS OF THE ELECTRIC UTILITY COMPANY.
4. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH A 1/4" DIA. POLYPROPYLENE FISH LINE.
5. ALL UNDERGROUND CONDUITS SHALL BE INSTALLED 24" MINIMUM BELOW GRADE (UNLESS OTHERWISE SHOWN ON PLAN).
6. 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.
7. ALL THREADED ELECTRICAL EQUIPMENT (CONDUIT, FITTINGS, BOLTS, SCREWS, ETC.) INSTALLED AT EXTERIOR SHALL BE COATED WITH ANTI-SEIZE COMPOUND PRIOR TO INSTALLATION.
8. ALL WEATHERPROOF (W.P.) DUPLEX RECEPTACLES SHALL BE INSTALLED SUCH THAT COVER DOORS OPEN UPWARD.
9. HAND DIG WHERE REQUIRED TO LOCATE EXISTING UTILITIES PRIOR TO INSTALLATION OF NEW UNDERGROUND CONDUITS FOR POWER AND LIGHTING.
10. 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.
11. 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.
12. INSTALL SEPARATE GROUNDING CONDUCTOR TO ALL ISOLATED GROUND RECEPTACLES.
13. LOCATE JUNCTION BOXES PER MANUFACTURER'S REQUIREMENTS.
14. EXHAUST FANS TO BE PROVIDED WITH SPEED CONTROL LOCATED ABOVE THE CEILING. PROVIDE A SWITCH WITH A PILOT LIGHT.
15. VERIFY LOCATION OF ALL POWER, PHONE, AND DATA JUNCTION BOXES WITH THE OWNER.
21. ELECTRICAL CONTRACTOR TO COMPLY WITH NEC SECTION 110-C(A) AND (B) AND ALL TERMINATION CODE REQUIREMENTS.
22. EC TO SIZE ALL WIRING, CIRCUITING, JB'S, BREAKERS, SUB PANELS, ETC., TO PROVIDE A COMPLETE SYSTEM.
23. ELECTRICAL DRAWINGS ARE SCHEMATIC ONLY. EC IS RESPONSIBLE TO DETERMINE THE FINAL CONDUIT AND WIRING LAYOUT.

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

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VERIFY FIXTURE SELECTIONS WITH OWNER

**LEGEND**

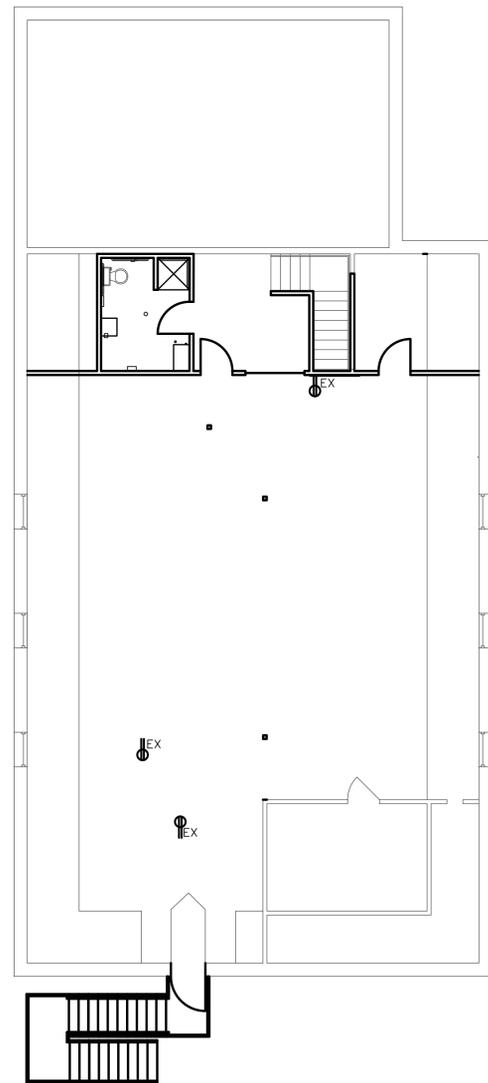
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- THREE WAY SWITCH
- SWITCH WITH PILOT
- SWITCH
- SPECIAL OUTLET
- DUPLEX OUTLET
- QUAD OUTLET
- WEATHERPROOF OUTLET
- GROUND FAULT INTERRUPTER
- TELEPHONE/ COMPUTER
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- CEILING MOUNTED LIGHT FIXTURE RECESSED
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- RATE OF RISE HEAT DETECTOR
- DISCONNECT SWITCH
- DISCONNECT SWITCH WITH FUSE
- AUDIO JUNCTION BOX—PRE-WIRE PER DIRECTION OF OWNER

**ELECTRICAL KEYNOTES**

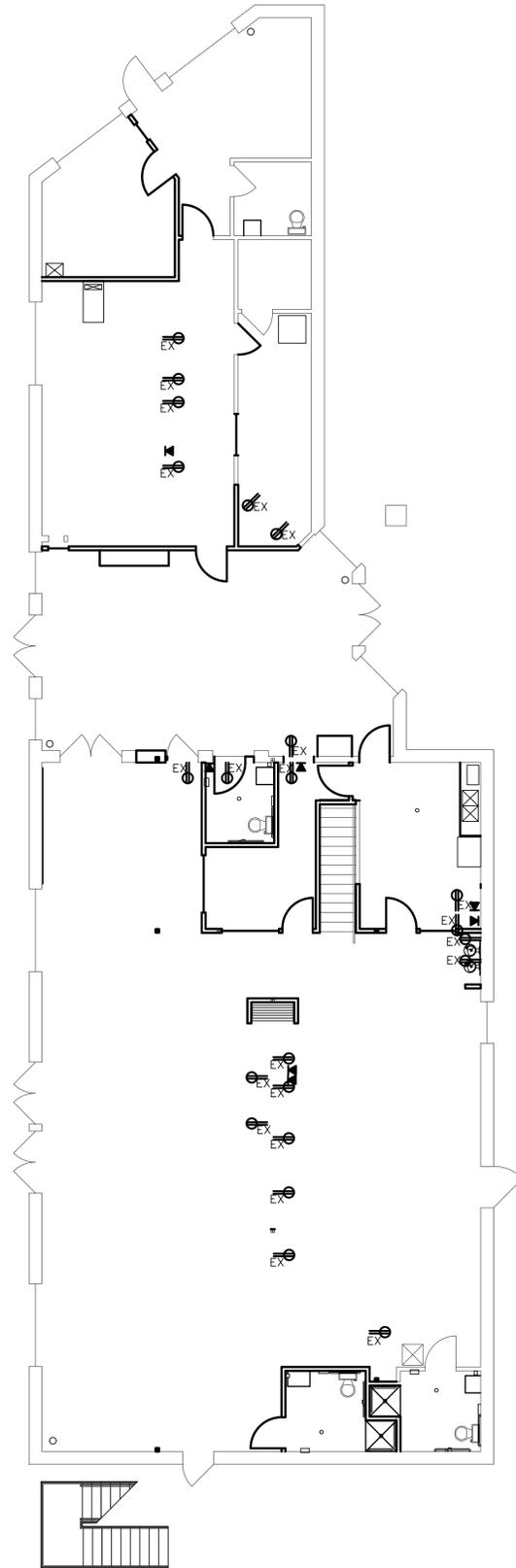
1. OCCUPANCY SENSOR EQUAL TO WATTSTOPPER ST-200
2. EXHAUST FAN TO BE CONTROLLED WITH LIGHTS BY OCCUPANCY SENSOR.
3. INSTALL REMOTE EMERGENCY FIXTURE ABOVE DOOR.

**ELECTRICAL NOTES**

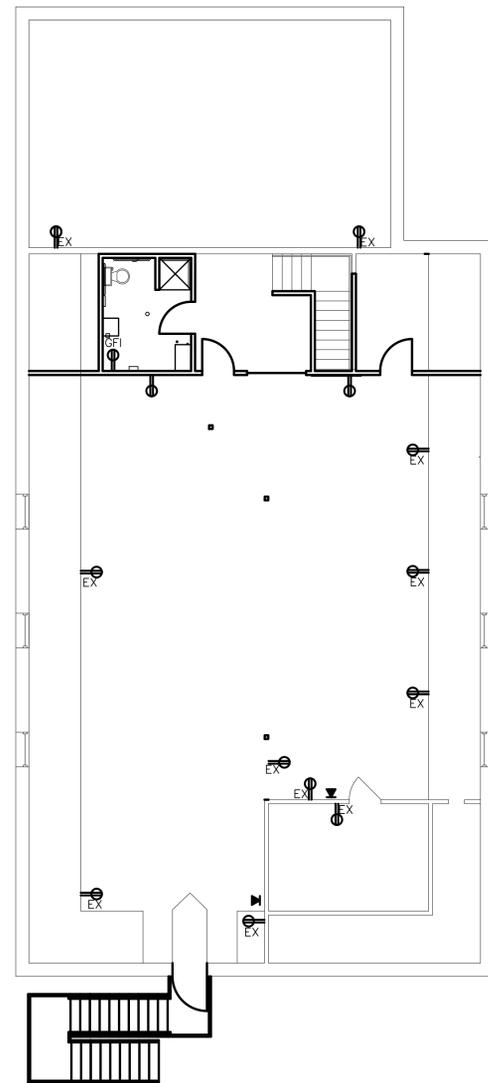
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9. ALL WEATHERPROOF (W.P.) DUPLEX RECEPTACLES SHALL BE INSTALLED SUCH THAT COVER DOORS OPEN UPWARD.
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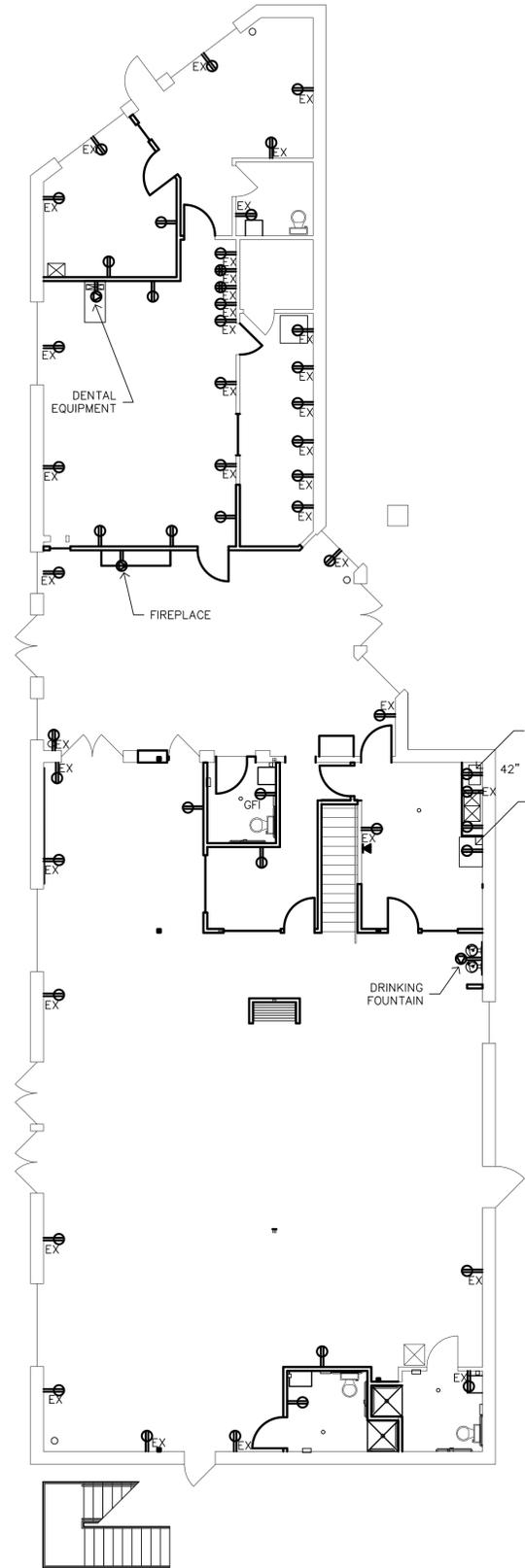
**1 SECOND FLOOR POWER DEMOLITION PLAN**  
SCALE: 1/8" = 1'-0"  
PROJECT NORTH



**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



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

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

**POWER PLAN**

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