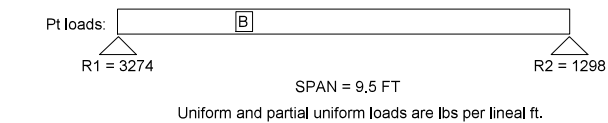
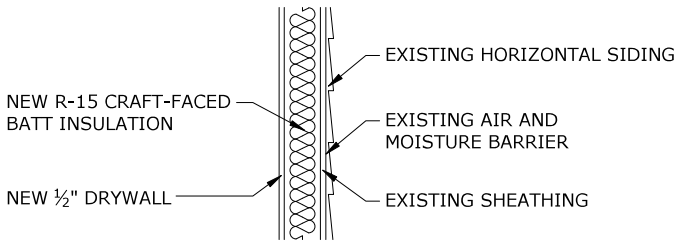
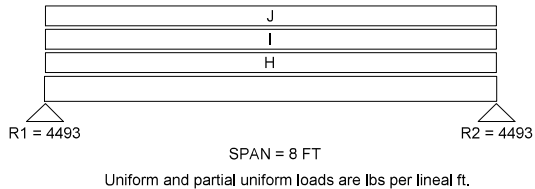


BeamChek v2020 licensed to: Eric Reising Reg # 3145-68921					
6710 East Ledge		Basement Beam		Date: 8/20/23	
Selection	(2) 1-3/4x 9-1/4 1.9E TJ Microllam LVL				Lu = 0.0 Ft
Conditions	NDS 2015				
	Min Bearing Area R1= 4.4 in² R2= 1.7 in² (1.5) DL Defl= 0.11 in				
Data	Beam Span	9.5 ft	Reaction 1 LL	2318 #	Reaction 2 LL 902 #
	Beam Wt per ft	8.32 #	Reaction 1 TL	3274 #	Reaction 2 TL 1298 #
	Bm Wt Included	79 #	Maximum V	3274 #	
	Max Moment	8699 #	Max V (Reduced)	3268 #	
	TL Max Defl	L / 240	TL Actual Defl	L / 388	
	LL Max Defl	L / 360	LL Actual Defl	L / 630	
Attributes	Section (in³)	Shear (in²)	TL Defl (in)	LL Defl	
Actual	49.91	32.38	0.29	0.18	
Critical	38.75	17.20	0.48	0.32	
Status	OK	OK	OK	OK	
Ratio	78%	53%	62%	57%	
		Fb (psi)	Fv (psi)	E (psi x mil)	FcL (psi)
Values	Reference Values	2600	285	1.9	750
	Adjusted Values	2694	285	1.9	750
Adjustments	CF Size Factor	1.036			
	Cd Duration	1.00	1.00		
	Cr Repetitive	1.00			
	Ch Shear Stress		N/A		
	Cm Wet Use	1.00	1.00	1.00	1.00
	CI Stability	1.0000	Rb = 0.00 Le = 0.00 Ft		
Loads					
	Point LL	Point TL	Distance		
	3220	B = 4493	2.66		

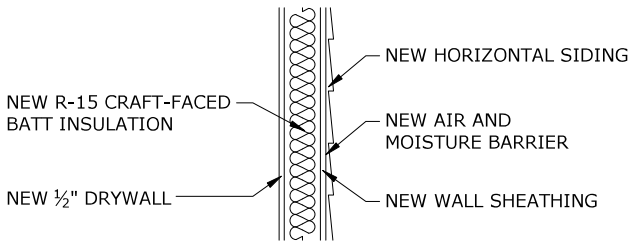


BeamChek v2020 licensed to: Eric Reising Reg # 3145-68921					
6710 East Ledge		Foyer Beam		Date: 8/20/23	
<u>Selection</u>	(2) 1-3/4x 9-1/4 1.9E TJ Microllam LVL				Lu = 0.0 Ft
<u>Conditions</u>	NDS 2015				
	Min Bearing Area R1= 6.0 in² R2= 6.0 in² (1.5) DL Defl= 0.11 in				
<u>Data</u>	Beam Span	8.0 ft	Reaction 1 LL	3220 #	Reaction 2 LL 3220 #
	Beam Wt per ft	8.32 #	Reaction 1 TL	4493 #	Reaction 2 TL 4493 #
	Bm Wt Included	67 #	Maximum V	4493 #	
	Max Moment	8987 #	Max V (Reduced)	3627 #	
	TL Max Defl	L / 240	TL Actual Defl	L / 337	
	LL Max Defl	L / 360	LL Actual Defl	L / 537	
<u>Attributes</u>	Section (in³)	Shear (in²)	TL Defl (in)	LL Defl	
Actual	49.91	32.38	0.28	0.18	
Critical	40.03	19.09	0.40	0.27	
Status	OK	OK	OK	OK	
Ratio	80%	59%	71%	67%	
<u>Values</u>	Fb (psi)	Fv (psi)	E (psi x mil)	FcL (psi)	
	Reference Values	2600	285	1.9	750
	Adjusted Values	2694	285	1.9	750
<u>Adjustments</u>	CF Size Factor	1.036			
	Cd Duration	1.00	1.00		
	Cr Repetitive	1.00			
	Ch Shear Stress		N/A		
	Cm Wet Use	1.00	1.00	1.00	1.00
	CI Stability	1.0000	Rb = 0.00 Le = 0.00 Ft		
<u>Loads</u>					
	Par Unif LL	Par Unif TL	Start	End	
	460	H = 575	0	8.0	
	345	I = 460	0	8.0	
		J = 80	0	8.0	



02 EXT. WALL DETAIL @ EXIST. FRAMING

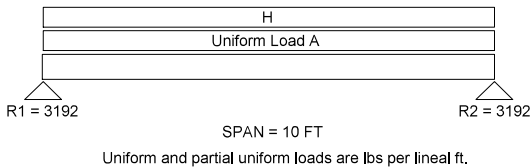
SCALE 1"= 1'-0"



01 EXT. WALL DETAIL @ NEW FRAMING

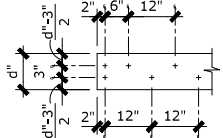
SCALE 1"= 1'-0"

BeamChek v2020 licensed to: Eric Reising Reg # 3145-68921						
6710 East Ledge		Attic Beam			Date: 8/20/23	
<u>Selection</u>	(2) 1-3/4x 9-1/4 1.9E TJ Microllam LVL				Lu = 0.0 Ft	
<u>Conditions</u>	NDS 2015					
	Min Bearing Area R1= 4.3 in² R2= 4.3 in² (1.5) DL Defl= 0.22 in					
<u>Data</u>	Beam Span	10.0 ft	Reaction 1 LL	1800 #	Reaction 2 LL	1800 #
	Beam Wt per ft	8.32 #	Reaction 1 TL	3192 #	Reaction 2 TL	3192 #
	Bm Wt Included	83 #	Maximum V	3192 #		
	Max Moment	7979 #	Max V (Reduced)	2700 #		
	TL Max Defl	L / 180	TL Actual Defl	L / 294		
	LL Max Defl	L / 240	LL Actual Defl	L / 632		
<u>Attributes</u>	Section (in²)	Shear (in²)	TL Defl (in)	LL Defl		
Actual	49.91	32.38	0.41	0.19		
Critical	30.91	12.35	0.67	0.50		
Status	OK	OK	OK	OK		
Ratio	62%	38%	61%	38%		
		Fb (psi)	Fv (psi)	E (psi x mil)	Fc _L (psi)	
<u>Values</u>	Reference Values	2600	285	1.9	750	
	Adjusted Values	3098	328	1.9	750	
<u>Adjustments</u>	CF Size Factor	1.036				
	Cd Duration	1.15	1.15			
	Cr Repetitive	1.00				
	Ch Shear Stress		N/A			
	Cm Wet Use	1.00	1.00	1.00	1.00	
	CI Stability	1.0000	Rb = 0.00	Le = 0.00	Ft	
<u>Loads</u>	Uniform LL: 180		Uniform TL: 360 = A			
	Par Unif LL	Par Unif TL	Start	End		
	180	H = 270	0	10.0		



GENERAL NOTES

- The attached plans and specifications are the sole property of the Owner. Owner expressly reserves it's copyright and other property rights in these plans and drawings. These plans and drawings are not to be reproduced or copied in any form or manner. Any unauthorized use of these plans without the written consent of the Owner is prohibited.
- The attached home design ais set forth by the format and provisions of the **2019 Residential Code of Ohio with Amendments**. All construction shall comply w/ said code as well as local governing codes and /or regulations. Any non-conforming documents discovered by the contractor or his agents shall be called to the attention of the designer.
- These plans are not to be scaled for construction purposes. Dimension lines and notes supersede all scale reference.
- These plans are subject to modification as necessary to meet code requirements and/or to facilitate mechanical / electrical / plumbing installation and/or to incorporate design improvements.
- The contractor shall verify all dimensions and information in these contract documents. The contractor shall survey the project and become familiar with existing conditions, and scope of work including but not limited to building, site and soil bearing conditions. If scope of work and construction documents are in conflict, the contractor shall immediately contact the appropriate superintendent for direction and/or clarification.
- Any errors, omissions, or inconsistencies in these contract documents and the actual site or construction conditions shall be brought to the attention of the Owner and/or Designer.
- All required smoke alarms shall be installed in each separate sleeping room, outside of each separate sleeping area in the immediate vicinity of the bedrooms and on each additional story of the dwelling, including basements, but not including crawl spaces and uninhabitable attics. In dwellings or dwelling units with split levels and without an intervening door between the adjacent levels, a smoke alarm installed on the upper level shall suffice for the adjacent lower level, provided that the lower level is less than one full story below the upper level, then a smoke alarm is required on each level. All required smoke alarms shall be interconnected in such a manner that the actuation of one alarm will actuate all alarms in the individual unit and shall provide an alarm which will be audible in all sleeping areas over background noise levels with all intervening doors closed. All required smoke alarms shall receive their primary power from the building wiring, and when primary power is interrupted, shall receive power from a battery. All smoke alarms shall be approved and listed and shall be installed in accordance with the manufacturer's instructions. A smoke alarm utilizing photoelectric and ionization technologies shall be installed on levels with no sleeping rooms. A smoke alarm utilizing ionization technology shall be installed in each sleeping room. An approved combination smoke alarm utilizing photoelectric technology and carbon monoxide alarm shall be installed outside of each separate sleeping area in the immediate vicinity of the bedrooms in dwelling units within which fuel-fired appliances are installed and in dwelling units that have attached garages.
- Interior partitions shall be 2x4 stud construction with 1/2" gypsum board, unless otherwise noted. Load - Bearing walls shall have stud placement 16" o/c (see floor plans) and double top plates. Non Load - Bearing partitions shall be 16" o/c maximum. Moisture resistant gypsum board shall be provided at all tub/shower areas and concrete backer board at all full height shower bath areas with smooth, hard and non-absorbent, or otherwise noted on floor plans, finishes. Ceramic tile within the immediate shower and bath areas shall extend 6'-0" above finish floor.
- All new exterior walls shall be sheathed with 1/2" plywood sheathing with moisture and air barrier installed per manufacturer's specifications.
- The minimum grade and allowable stresses for structural members are:
 - A. Repetitive member uses:
 - Studs = **SPF stud grade or better**
 - Joists = **Southern Yellow Pine #1**
 - Rafters (2x4 and 2x6) = **SPF #3**
 - Rafters (2x8 and larger) = **Southern Yeloow Pine #1**
 - B. Microllam LVL's: Fb = **2600** Fv = **285** E = **1.9 x 10⁶** Fc = **750**
 - C. Steel Beams: Yield stress values of Fy = **50 ksi**
- Design Loads:
 - Roof Loads
 - Dead Load 10 psf (TC & BC)
 - Snow Load 20 psf
 - 40 psf MIN
 - Floor Loads
 - Dead Load 10 psf
 - Live Load 40 psf (Living)
 - Live Load 30 psf
 - Wind Loads
 - Pg = 20 psf (ground snow)
 - Importance Factor, Is = 1.0
 - Exposure Factor, Ce = 1.0
 - Thermal Factor, Ct = 1.0
 - Pf = 14 psf (Balanced)
 - Pf = 20 psf (Minimum)
 - Soil Bearing capacity of 1500 psf assumed.
- All multiple 2 x headers and multiple LVL beams to be fastened together at top and bottom into each adjacent member with minimum (2) rows of 16d nails @ 12 inches o/c, staggered, unless noted otherwise.

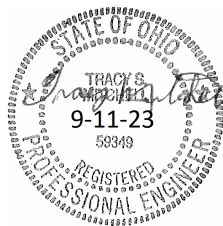


ELECTRICAL / TRIM SYMBOLS:

- FLOOR OUTLET
- 110v OUTLET - TYPICAL WALL
- WEATHERPROOF WALL OUTLET
- GROUND FAULT INTERRUPTER OUTLET
- THERMOSTAT
- SWITCH - SINGLE POLE
- SWITCH - 3 WAY
- LIGHT FIXTURE - CEILING MOUNTED
- LIGHT FIXTURE - WALL MOUNTED
- LIGHT FIXTURE - RECESSED IN CEILING
- EXHAUST FAN - VENT TO EXTERIOR
- SMOKE DETECTOR
- COMBO CARBON MONOXIDE / SMOKE DETECTOR

SHEET INDEX

SHEET No.	CONTENTS
GN	General Notes
A1,0	Details
A1,1	Existing First Floor Plan
A2,0	Existing Second Floor Plan
A2,1	Existing Attic Plan
A3,0	Basement Plan
	First Floor Plan
	Second Floor Plan
	First Floor Electrical Plan
	Second Floor Electrical Plan



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Harrison, OH
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Eric Reising
Drafting Services

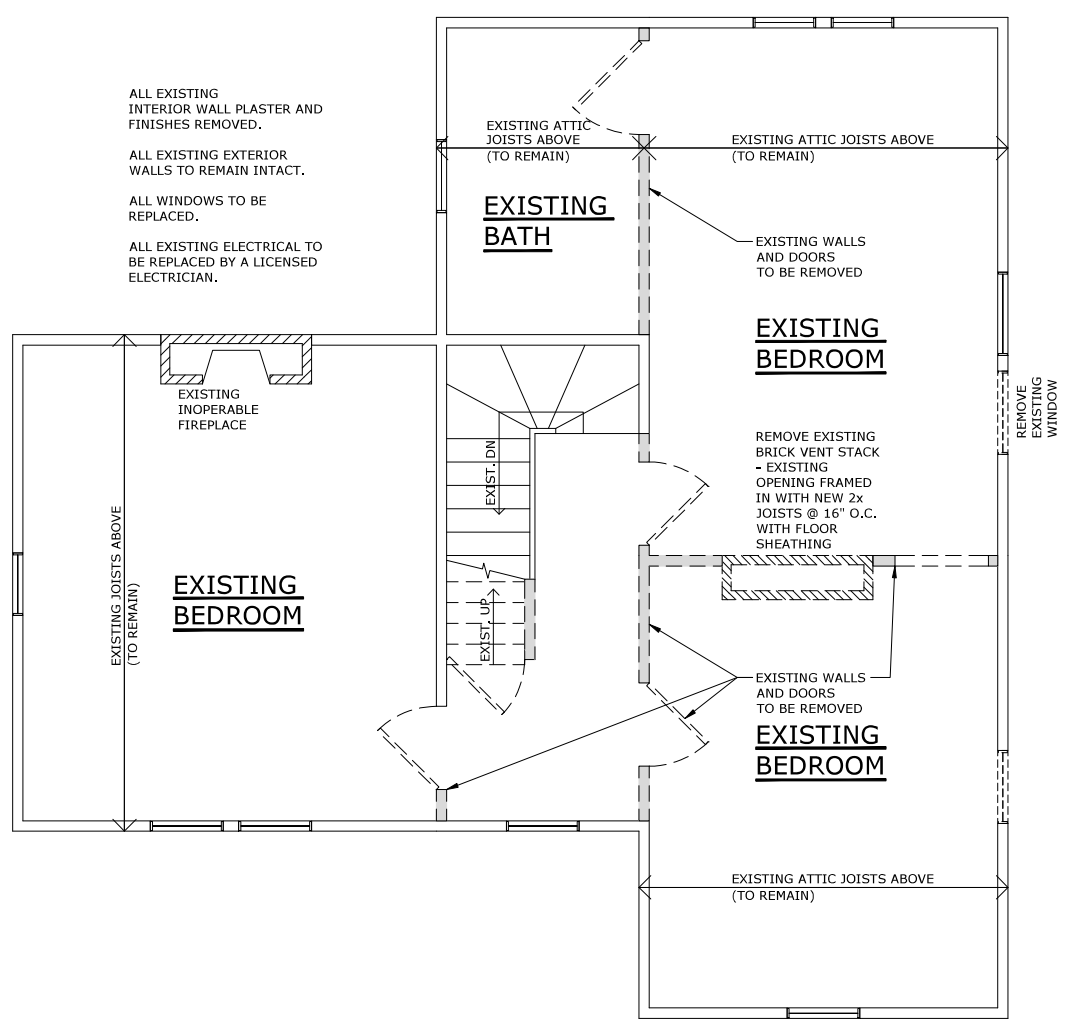
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PERMIT REVISION:
CONSTRUCTION:
REVISION:
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A RENOVATION DESIGN FOR:
6710 E LEDGE ST
CINCINNATI
OHIO

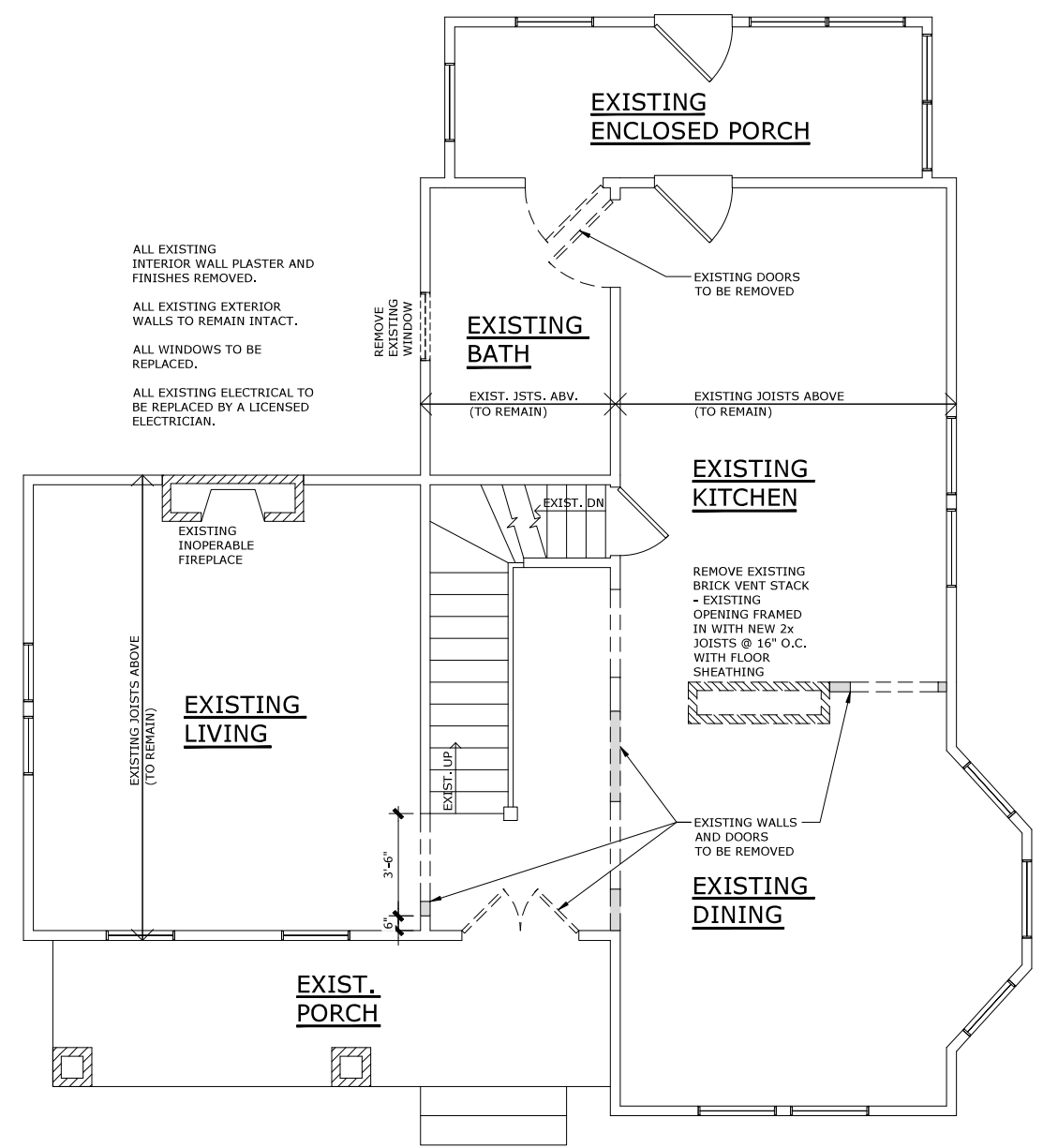
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GN

WALL LEGEND	
	EXISTING STUD WALL
	EXISTING FOUNDATION WALL
	NEW FOUNDATION WALL
	NEW STUD WALL FRAMED 16" O.C. (2x4 TYPICAL UNLESS OTHERWISE NOTED)



02 EXISTING SECOND FLOOR PLAN
 SCALE 1/4" = 1'-0"



01 EXISTING FIRST FLOOR PLAN
 SCALE 1/4" = 1'-0"



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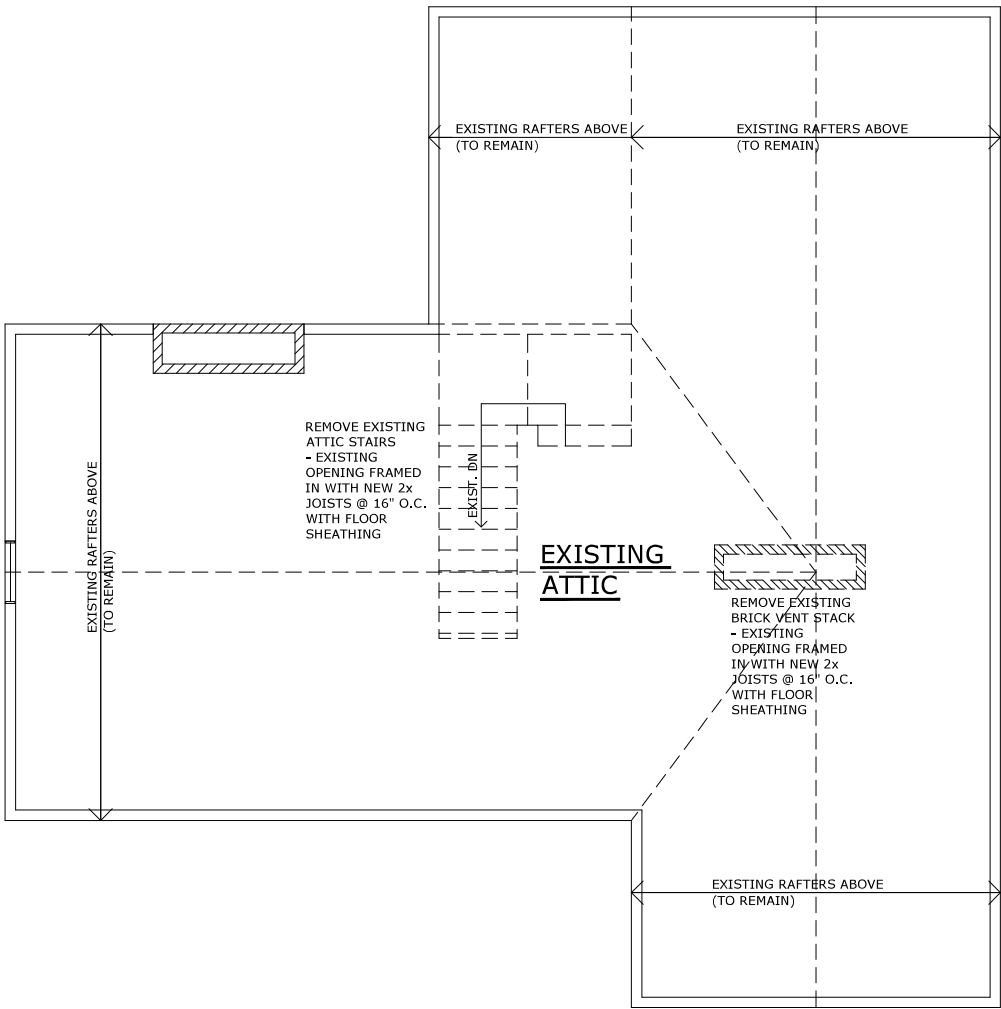
WALL LEGEND

EXISTING STUD WALL

EXISTING FOUNDATION WALL

NEW FOUNDATION WALL

NEW STUD WALL FRAMED 16" O.C.
(2x4 TYPICAL UNLESS OTHERWISE NOTED)



01

EXISTING ATTIC PLAN

SCALE

1/4" = 1'-0"



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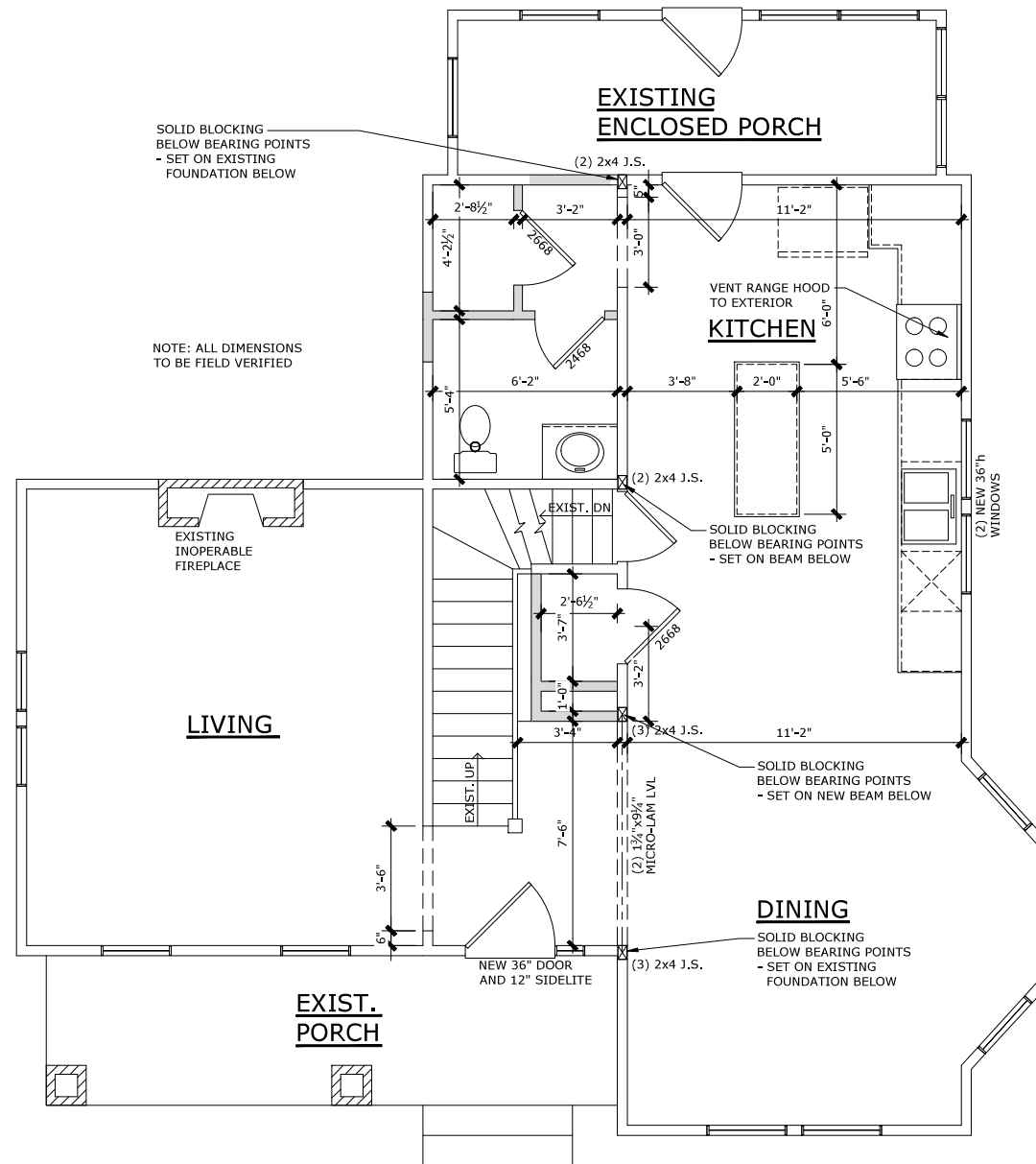
6710 E LEDGE ST

CINCINNATI

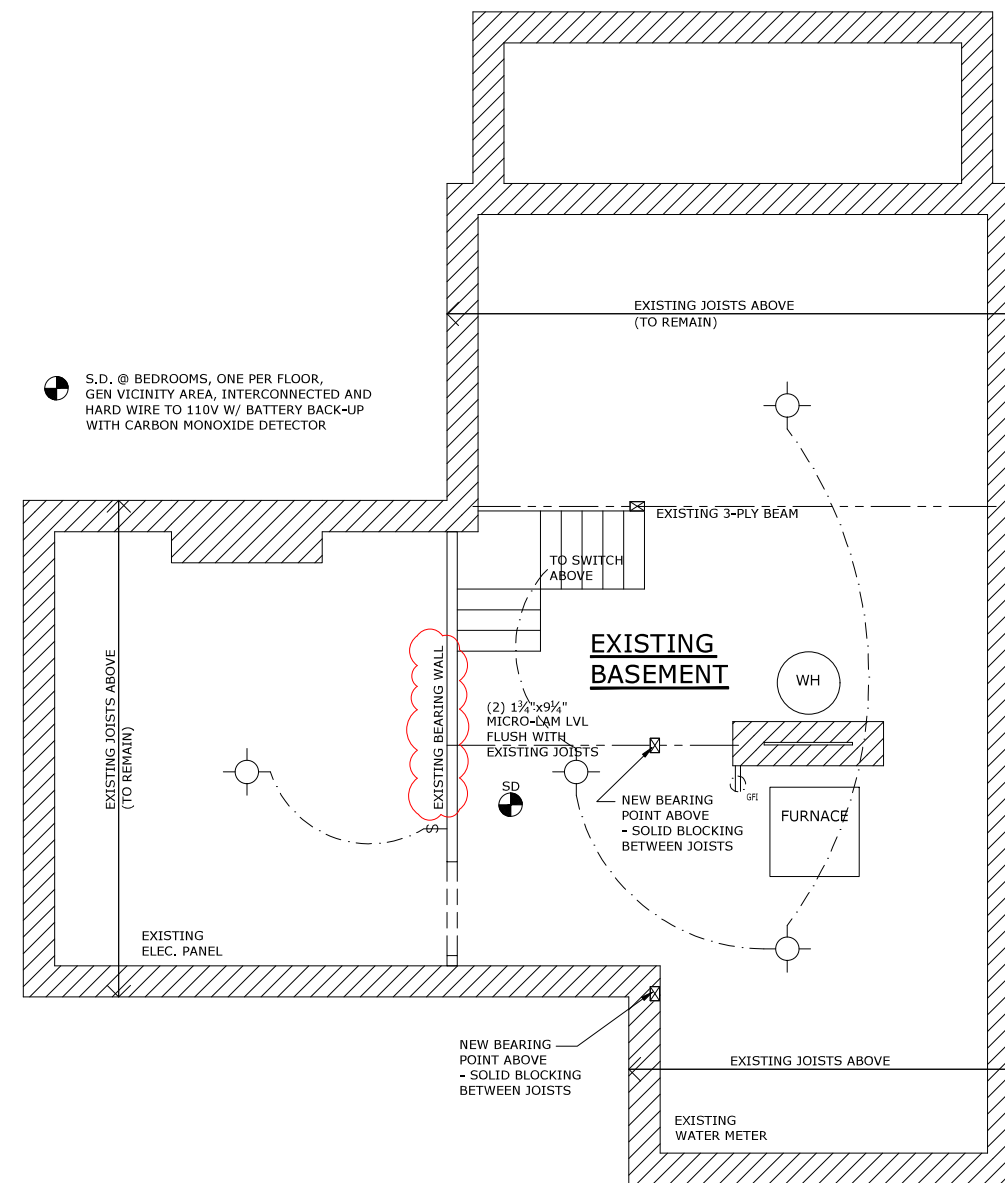
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Sheet No.

A1.1



02 FIRST FLOOR PLAN
SCALE 1/4" = 1'-0"



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

WALL LEGEND

	EXISTING STUD WALL
	EXISTING FOUNDATION WALL
	NEW FOUNDATION WALL
	NEW STUD WALL FRAMED 16" O.C. (2x4 TYPICAL UNLESS OTHERWISE NOTED)



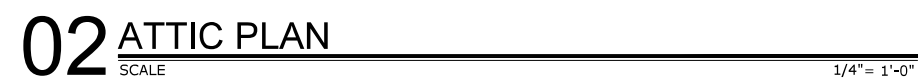
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A RENOVATION DESIGN FOR:
6710 E LEDGE ST
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Sheet No.
A2.0





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Sheet No.

A2.1