Comply with RCO prescriptive method fo HVAC to be sized per manual J Blower door test required House ventilation per chapter 3 Floor Loads:

Dead Load: 10 Psf
Sleeping Rooms Live Load: 30 Psf
Dwelling Spaces Live Load: 40 Psf
Attic Live Load: 20 Psf
Decks & Balcony Live Load: 40 Psf GENERAL PROJECT DATA:
All codes govern over drawings.
2019 Residential Code of Ohio Provide 2" spacing between masonry fireplace and wood framing for masonry chimneys built partially or entirely within the dwelling. Provide 1" space if chimney is built entirely outside the dwelling. Provide firestopping between floors. of any discrepancies.
Verify all locations of recessed lighting w/contractor. Cast-in-place concrete work shall conform to the American Institute recommendations. All electrical work shall conform to the latest edition of the National Electrical Code and local ordances. Provide tempered glass in all doors & windows less than 18" floor. Provide tempered glass at all shower & tub enclosures. within 5'-0" from tub or shower units. GENERAL NOTES:
Each contractor shall verify all dimensions and conditions as they pertain to the acceptable completion of their work. Use Group Classification:
Use Group R-3: (Residential: Single-Family) Written dimensions take precedence over scaled dim Verify all mechanical requirements before framing. Snow Load: 30 Psf Wind Load: 115 mph All underground electric lines shall be embedded in sand. All prefabricated fireplaces and flues shall be U.L. All interior walls All exterior walls are 2X6 (u.n.o.) All plumbing work shall conform to the latest edition of the Ohio Plumbing Code and local ordances. Construction Classification: Wood Frame, Type 5b, Unprotected ump pumps shall have an inline check valve. ide 22"x30" minimum access with switched light to all attic are 2X4 (u.n.o.) found in section 1101.14-1104 approved. Concrete " above above the s. And all windows **Notify Architect**

In the event the client consents to, allows, authorizes or approves of changes to any plans, specifications or other construction documents, and these changes are not approved in writing by Greenwalt Architects. The client recognizes that such changes and results thereof are not the responsibility of Greenwalt Architects. Therefore, the client agrees to release Greenwalt Architects. From any liability arising from the construction, use or result of such changes. In addition, the client agrees, to the fullest extent permitted by law, to indemnify and hold Greenwalt Architects. Harmless from any damage, liability or cost (including reasonable attorneys' fees and costs of defense) arising from such changes except only those damages, liabilities and costs arising from the sole negligence or willful misconduct of Greenwalt Architects.

Contractor is responsible for design & framing of temporary shoring as necessary.

All masonry metal accessories to follow Table 606.14.1 of the 2013 Residential Code of Ohio for corrosion protection. MASONRY:

The load-bearing masonry elements of this building are designed in accordance with "Building Code Requirement For Masonry Constru accordance with "Building Code Requirement For Maso 530-02 published by The American Concrete Institute. Materials and construction methods shall be specified in "Specifications For Masonry Structures" ACI 530.1-02 published by The American Conditions <u>8</u>

Grout shall conform to ASTM C476-01. Use fine grout for collar joints 1" wide or less and when grouting cells of hollow masonry units, with or without vertical reinforcing. Use course grout when grouting bond beams, minimum compressive strength shall be 3000 psi.

Provide solid masonry under wall bearing beams unless otherwise the drawings.

All masonry walls shall have galvanized horizontal reinforcing of the below grade walls and vertically reinforced walls, spaced 16" on center truss type, 3/16" side rods and #9 gage cross rods.

The use of calcium chloride, salts and other materials containing antifreeze agents or chemical accelerators prohibited unless otherwise approved. Contractor to submit proposed admixture with mix design for approval.

FOUNDATION NOTES:

Notify Architect of unusual soil condition before proceeding with Foundation design is based on soil bearing capacity 2500 PSF to be verified in field prior to placing foundation.

Place footings at elevations shown or to undisturbed soil of design capacity whichever is lower. Footing elevations shown on plan are to bottom of footing.

Footing excavations to have flat bottoms with bearing surfaces undisturbed by method of excavation and protected from water accumulation and freezing Footing depths shown are minimum. All footings shall bear on firm undisturbed earth, at least 3'-6" below finish grade.

Footing steps may be 1 vertical to 2 horizontal with a maximum step of 2 feet.

Poured concrete wall - 3000PSI 4"- +/-1" Slump

A more elaborate foundation and or waterproofing/ dampproofing system may be req'd. Contractor to verify exist. Site conditions. ndation walls shall be back filled with free stone.

<u>a</u> made fill and rubble from the building site

Mortar for masonry per ASTM C270-01A, Type S 1,800 psi (min.) cube strength Hollow load bearing concrete masonry units per ASTM C90-01. Reinforcing bars: ASTM A185-06e1

Reinforcing bars per ASTM A615/A0615M-01b, grade 60, lap splices 24" and grout solid into walls. REINFORCEMENT:

Mortar for exterior below - grade and vertically reinforced walls shall be ASTM C270-01A, Type S.

All units shall be laid with full mortar coverage on head, bed shells), webs and collar joints, unless otherwise noted.

Curing compound: use an approved curing compound on all flat surfaces.

elson fluxed, headed anchor studs (NS) or deformed bar anchors (DBA). ebar per ASTM 615/A0615M-01b, Grade 40 nors to be:

Patio & wallks: reinforcing bars: ASTM A615/A0615M-01b, Grade 60 welded fire fabric: ASTM A185-06e1

All lintels exposed to the exterior shall be galvanized

angle for each 4" wythe

Patio & walks: provide 6x6-w1.4xw1.4 welded wire fabric in all slabs grade, unless otherwise noted. Provide control joints in all walks equal to the width of the walk.

CAST-IN-PLACE FOUNDATION WALL (IF APPLICABLE): Provide vertical control joints in all vertically reinforced concrete surfaces (walls). The maximum spacing of control joints shall be 20'-0" o.c. unless notes otherwise. Cut alternate non-structural horizontal reinforcing bars on each face and provide a 1/2"x1/2" reveal at each control joint, unless otherwise noted (if applicable).

All horizontal wall bars shall be bent and laped around all corners, unless otherwise noted. vide vertical and horizontal reinforcing bars in concrete walls to form to the provisions of ACI 318, Section 14.3, with the reinforcing so to be .0015 for vertical reinforcing and .0025 for horizontal forcing, unless otherwise noted.

All w Refer to architectural drawings for location and extent of finishes or other treatments to exposed concrete. Chamfer exposed edges of concrete 3/4"x3/4", unless otherwise noted. all footing reinforcing shall extend to intersecting centerline of mn footing.

Determine size and location of mechanical equipment, and make provisions for bolts, sleeves, pads, ect., Fom manufacturer's certified drawings. This work shall be coordinated with the trades involved.

GYPSUM BOARD:

Provide 1/2" @ walls & 5/8" @ ceilings regular gypsum board throughout entirestructure except as noted. © ceilings regular gypsum board throughout entire

Provide 5/8" type "x" fire code gypsum board throughout garage & walls common to house in garage attic. Provide 5/8" gypsum board on all attic

Type of gypsum board for tile as per

T-IN-PLACE CONCRETE:
oncrete work shall conform with the requirements of ACI-318 & ACI-301,

in-place concrete work shall conform to the American Concrete ute codes and standards, except as modified on the drawings.

A. Use an approved water reducing agent for all concrete except footings.
B. Use an approved 2nd and 3rd generation high range water reducer (WRWR) for all slabs on grade.
C. Use an approved air entraining agent for all concrete exposed to weather, use 6 % entrained air.
D. The use of calcium chloride or admixtures containing chlorides is prohibited.

rrotection to reinforcem against soil - 3" exposed or Reinforcing steel
A. Reinforcing bars #4 and larger per ASTM A615, Grade 60.
B. Lap reinforcement 36 diameters unless otherwise noted.

ncrete slab on grade shall be placed on 4" minimum compacted granular drainagematerial over 6 mil. vapor barrier placed on bearing soil.

Place welded wire fabric, in slabs, 1-1/2" down from top of slab, unless otherwise notes. at 28 days shall be:

Minimum ultimate compressive strength of concret Location strength slump remarks

Spread & wall footings 3000 psi 4" +- 1" Slump

Slabs on grade 4000 psi 2"-6"/hrwr Slump

Mud mat 2000 psi 4" + -1" Slump

Concrete fill for block 3000 psi 8" +- 1" 3/8' max. Aç

Lintel beams

4000 psi 4" +- 1"

Openings from 6'-0" - 7'-0" angle L 6" x 3 1/2" x 5/16" L.L.V. per

All lintels shall have 1" of bearing for each foot of span 6" bearing @ each end.

Openings from 4'-0" - 6'-0" angle L 5" x 3 1/2" x 5/16" L.L.V. MASONRY LINTEL SCHEDULE:
Openings up to 4'-0" angle L 3 1/2" x 3 1/2" x 5/16"

Minimum thickness of lintels in exterior walls to be 3/8"

All window and door headers to be 2-2x10's w/1/2" ply otherwise noted.

Provide 2x6 top plate on all steel beams - stagger bolt Provide 3-2x4 structural column @ wood beam bearing points All partitions over 10'-0" high shall be framed @ 12" o.c. All jacks shall be blocked below the deck. @ 24" o.c. w/ 3/8"

Provide 1/2" painted sheathing at all joist overhangs. All lumber in contact with concrete or masonry shall be Provide galvanized joist hangers @ all flush beams.

Provide 2x8 collar ties @ every other rafters. Location the peek to the ceiling rafters. Provide 2x8 stiffbacks @ 10'-0" o.c. for all ceiling joists ರ

Provide firestopping at all soffits and furred off spaces

Provide double header joist & trimmer at all floor oper All headers shall be free from splits, checks & shakes.

Provide 1"x3" "x" bridging @ 6'-0" Provide double joists under all parallel partitions. All angled walls are 45 degrees unless othen

Any hip or valley rafters exceeding 28'-0" to be L.V.L. All sill plates shall be full width of foundation. Adjust all overhangs of different pitches to maintain cc (U.N.O.)

Repair/ replace all framing damaged by mechanical sy Provide corner bracing at all corners if foam sheathing is used

Exterior sheathing to be continuous over al not limited to rim joists and corner framing.

all framing

Verify all lighting, phone and cable locations with owner prior to installation of drywall, or finish materials.

Submission

Date

1/4" = 1'-0"

Schematic Design

Odtobe 28, 2022

nd electric lines

dded in sand.

Notes

All wood plates shall be anchored to masonry foundation diameter x 16" long anchor bolts @ 6'-0" o.c. maximum a corners- minimum.

on wall with 1/2" and 12" from all

INSULATION:
Walls: 3 1/2" (2X4) batt insulation (R-13 min.)
5 1/2" (2X6) batt insulation (R-19 min.)

Curing compound: use an approved curing compound on all flat surfaces

Provide ventilation baffles @ all rafter spaces

Slab edges: 1 1/2" rigid extruded polystyrene (R-10)

Box ends: 6 1/2" batt insulation (R-22)

Vaulted ceilings: 8 1/2" batt insulation (R-30c)

Flat ceilings: 12" batt insulation (R-38) or blown

STRUCTURAL STEEL:
Structural steel shall be new and to conform to AISC "Specification For The Design, Fabrication, And Erection Of Structural Steel For Buildings."
Latest Edition. Foam all openings in top plates. Caulk all openings in exterior walls.

Bolts per ASTM A325, bearing type connections. Anchor bolts into concrete or masonry to be per ASTM A307-04 or ASTM A36

All steel to be per ASTM A36

All structural steel details and connections shall conform to the standards of AISC.

All wood used for sill plates, decks, and railings shall treated lumber.

All steel plates shall be ASTM A36 All anchor bolts shall be ASTM A307-04. Use with he

All fabrication and erection per National Design Speci Construction - 2004.

Do not drill oversize hole for misfits without Architect's

All lumber shall be stamped with the grade mark of an testing

ood shim. Unless Top Chord Live Load
Top Chord Dead Load
Bottom Chord Live Load
Bottom Chord Dead Live ign Loads for Truss:

30 psf 10 psf 0 psf (un 10 psf

attic load of 20 PSF)

WINDOWS & DOORS:

Provide exterior windows and doors shop drawings and o architects review and approval. Architect shall not be res windows or doors ordered without shop drawing approval.

PLUMBING FIXTURES:
To be coordinated with the builders INTERIOR FINISHES:

To be coordinated with the builders star

CABINETS & KITCHEN EQUIPMENT:

To be coordinated with the builders standards & kitchen

Verify all m chanical req

Returns complete system A. rounds feed to rooms pans between joist and studs

PLUMBING:
All plumbing work shall c
plumbing code and local to the latest edition of the natior

© CHRISTOPHER® ★
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All prefabricated fireplaces

and flues shall be u.l. approved

an inline check valve

ELECTRICAL: All electrical wo Verify all locations of recessed lighting w/architect & contr oke detectors shall be hard wired and interconn nform to

STRUCTURAL WOOD CONSTRUCTION:
Structural sawn lumber:
A. Sizes 2" thick x 5" and wider shall be South equal with the following min.

LUMBER HEADER SCHEDULE:

1. PROVIDE LUMBER HEADERS PER THE FOLLOWING SCHEDULE IN ALL WOOD FRAME WALL OPENINGS (U.N.O.)

Design values:

Fb= 1,200 psi (single)

Fb= 1,400 psi (repetitive)

E = 1,600,000 psi

Fv= 90 psi

Fo= 565 psi (perpendicular

Products Association B. Allowable stresses for sawn lumber shall be in acccedition of the "National Design Specification for Wood supplement, "Design Values for Wood Construction" Fc= 565 psi (perpendicular to grain) Fc= 1,000 psi (parallel to grain)

PREFABRICATED WOOD TRUSSES (IF APPLICABLE):
Trusses shall be designed, detailed and fabricated in accordance to the truss plate institute and design loads noted. Manufacturer is responsible for providing hangers & holdowns connections of trusses to wood plate, as necessary. Temporary and permanent bracing of trusses will be shown on the erection plans and designed by the manufacturer as per truss plate

cordance with the d Construction plus n" by the National Fore

Detail, fabricate and erect structural wood in accordar Institute Of Timber Construction Standards And Speci manual and these drawings.

tors shall have I.C.C. ance with the American cifications, the project

Trusses rafters, if applicable, to be per Truss Plate Institute Specifications for metal plate connected wood trusses TPI-

Laminating veneer lumber (LVL) shall be Micro-Lam members of TrusJoist Corporation or gang-lam (LVL) as manufactured by Gang-Nail system inc.

A. Multiple members shall be fastened together with 16d nails at 12 inches o.c. along the top and bottom edges. All multiple members, (3) three or more, shall be bolted per manufacturers requirements.

B. Laminated veneer lumber members designated LVL on plan. Trusses rafter members to be machine stress rated structural lumb required for design loads. All exposed lumber or lumber in treated/wolmanized. contact with

윽

onry shall be

A New

French

Schutte Residence

Buil

Truss fabricator shall submit Registered Engineer in State

Detail, fabricate and erect structural wood in Institute Of Timber Construction standards are in accordance with The American and specifications and these

e pressure

avy duty plate

Stress-grade lumber for trusses shall develop modulus of elasticity as follows:
species: Southern Pine, Grade No. 2
bending: 1400 psi
parallel to grain: 625 psi
horizontal shear: 90 psi
compression parallel to grain: 1000 psi
compression perpendicular to grain: 565 psi
modulus of elasticity: 1,600,000 psi

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Home Dr Creek Iders 1197 Woodside	FIGATION Architects Inc.
Rocky River, Ohio	9633 Maurer Dr. Cleveland, Ohio 44138

Tel: (216) 374-4893 Fax: (440) 427-8651

OPENINGS UP TO 5'-0"

OPENINGS FROM 5'-0" TO 7'-0"

OPENINGS FROM 7'-0" TO 8'-0"

OPENINGS FROM 8'-0" TO 9'-0"

AT 2x6 WALLS ADD 2x AND 1/2" PLYWOOD TO GET 5 1/2" THICKNESS