CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA FOR LAKE COUNTY											
GROUND SNOW LOAD	WIND DESIGN		SEISMIC DESIGN CATEGORY	SUBJECT TO DAMAGE FROM			WINTER DESIGN TEMP	ICE BARRIER UNDERLAYMENT REQUIRED	FLOOD HAZARDS	AIR FREEZING INDEX	MEAN ANNUAL TEMP
	SPEED (MPH)	TOPOGRAPHIC EFFECTS		WEATHERING	FROST LINE DEPTH	TERMITE					
30	115	NO	A	SEVERE	42"	M-H	2	YES	SMO	2000	50 F

RESIDENTIAL DESIGN CRITERIA	
APPLICABLE LOADS	
FLOORS (SLEEPING AND OTHER)	40 LBS. LL 10 LBS. DL
ROOF (TOP CHORD)	30 LBS. LL 10 LBS. DL
ROOF (BOTTOM CHORD)	PER ENG TRUSS DWGS.
EXTERIOR DECKS & BALCONIES	40 LBS. LL 10 LBS. DL
UNINHABITABLE ATTIC no STORAGE	10 LBS. LL
UNINHABITABLE ATTIC limited STORAGE	20 LBS. LL
HABITABLE ATTIC, ATTICS w/FIXED STAIRS	30 LBS. LL
STAIRS	40 LBS. LL
HANDRAILS	200 LBS CONCEENTRATED
GUARDS	200 LBS CONCEENTRATED
BASIC WIND SPEED LOAD RATINGS TO MEET OR EXCEED 115 MPH.	
STRUCTURAL FRAMING LUMBER	
ALL FLOOR JOIST, CEILING JOIST, HEADERS AND RAFTERS IN GRADE BASE VALUE AS DETERMINED BY WESTERN WOOD PRODUCTS ASSOCIATION (USE NO MULTIPLIER AGAINST BASE VALUE)	
#2 SPF - NORTH	Fb = 850
BEARING WALL STUDS MINIMUM IN GRADE VALUE	
FIRST FLOOR (EXTERIOR) FIRST FLOOR (INTERIOR) NON-LOAD BEARING	E=1,400,000 Fc=825 E=1,200,000 Fc=800 E=1,000,000 Fc=600
EXTERIOR DECK STRUCTURAL FRAMING AS CLASSIFIED BY THE SOUTHERN PINE MARKETING COUNCIL & MUST BE TREATED FOR EXTERIOR USE	
#2 SYP OF U.S. ORIGIN Fb 2x8=1380 PSI; 2x10= 1210 PSI; 2x12= 1180 PSI E= 1,600,000	

PROJECT CODES
Jurisdiction: Lake County
2018 International Residential Code
2018 International Building Code
2018 International Fire Code
2018 International Mechanical Code
Illinois State Plumbing Code
Illinois Energy Conservation Code
2017 National Electric Code

ENERGY SPECIFICATIONS FOR PROJECT		
Element	Climate Zone 5	Notes
Fenestration U Factor	0.30	Marvin Essential Low E2 coating w/Argon gas windows rated .30
Ceiling R-value	49	Roof/Attic is R49 batt. or blown in insulation. NOTE:Installation of R-38 over 100 percent of the ceiling or attic area requiring insulation shall satisfy the requirement for R-49 insulation wherever the full height of uncompressed R-38 insulation extends over the wall top plate at the eaves.
Exterior Wall R-value	20	New walls are R21 batt. insulation

NUMBER OF JACK AND KING STUDS REQUIRED AT EACH END OF AN OPENING			
SIZE OF OPENING	24-INCH O.C. STUD SPACING		HEADER TO KING STUD CONNECTION NEEDS (WIND SPEED 115 mph)
	NUMBER OF JACK STUDS	NUMBER OF KING STUDS	
Up to 3'-6"	1	1	4 - # 8 screws
> 3'-6" to 5'-0"	1	2	4 - # 8 screws
> 5'-0" to 5'-6"	2	2	4 - # 8 screws
> 5'-6" to 8'-0"	2	2	4 - # 8 screws
> 8'-0" to 10'-6"	2	3	6 - # 8 screws
> 10'-6" to 12'-0"	3	3	6 - # 8 screws
> 12'-0" to 13'-0"	3	3	8 - # 8 screws
> 13'-0" to 14'-0"	3	4	8 - # 8 screws
> 14'-0" to 16'-0"	3	4	8 - # 8 screws
> 16'-0" to 18'-0"	4	4	8 - # 8 screws

Light and Vent Schedule

Name	Area	Light Requirement	Light	Vent Requirement	Vent
BEDROOM 1	118 SF	9.44	16.72	4.72	8.36
BEDROOM 2	125 SF	9.6	16.72	4.8	8.36
LIVING ROOM	557 SF	20.16	29.9	10.08	11.9

General notes:

Dimensions and existing conditions shall be verified prior to construction. On-site verification is the responsibility of each contractor. Contractors shall include any alterations, relocation, removal, rerouting, etc. of existing facilities in their bid. Notify general contractor immediately in writing of any discrepancies.

Contractors shall keep an accurate record of all deviations between the work shown on the plans and that which is performed. Turn record drawings over to general contractor prior to project close-out.

Do not scale drawings, use dimensions always given on the drawings. Unless noted otherwise, dimensions are shown to the face of the brick, exterior sheathing, or gypsum wallboard.

Drawings are diagrammatic and schematic in nature and are intended to show the scope of the work.

Details and sections on the drawings are shown at specific locations and are intended to show general requirements throughout. Details noted "typical" imply that all conditions are treated similarly.

All drawings shall be fully coordinated by the contractors to verify all dimensions, locate all special conditions, slopes, drains, outlets, flashing, structural fasteners, sleeves, etc.

The contractor shall bring all errors and omissions which may occur in the construction documents immediately to the attention of the general contractor. The contractor will be held responsible for damages resulting from any errors, discrepancies, or omissions in the contract documents, for which the contractor failed to notify the general contractor prior to starting the work.

The contractor shall make no structural or other changes without the written approval of the architect.

Provide site protection and barriers as required by local authorities and as indicated on the drawings.

Contractors shall visit the site prior to submitting a bid, verify dimensions and conditions, and report conflicts to the general contractor in writing or be responsible for same.

Contractors shall coordinate their work and the work of adjoining trades with the general contractor. All trades shall assist in working out space conditions to make satisfactory adjustments and modifications in the work including re-routing as required by interference with structural, general, and work of other trades, and for proper execution of the work. Work installed prior to coordinating with other trades that causes interference with the work of other trades shall be changed to correct such conditions without additional cost to the owner and at the direction of the general contractor.

Protect work, materials, and equipment from damage or loss due to any cause.

Contractors shall do the required cutting and patching necessary for the passage of their Work in coordination with other trades.

Provide sleeves at duct, pipe, conduit, and cable penetrations through the building Construction. Seal all openings as required to maintain the fire rating, water penetration Resistance, and air penetration resistance of the building construction.

Cutting of structural members shall be prohibited without the prior written approval of the Architect or structural engineer.

Contractors shall carry their own insurance including worker's comp and commercial general liability. Work may not proceed until certificate is submitted.

Contractor's work and materials shall be guaranteed for a period of one year from the date
of the final certificate of occupancy against defects of materials, equipment, and workmanship unless otherwise noted.

Each contractor shall remove rubbish and debris from project and adjoining areas, including
streets as quickly as it accumulates on a daily basis.

Remove all debris and broom sweep construction area at end of day.

Contractors shall remove debris and provide final cleaning of entire project site.

Contractor shall inspect and verify all conditions and contact architect if questions or discrepancies.

Work shall be performed by skilled tradesman in the fields in which they regularly practice.

Materials and equipment shall be new and installed per the manufacturer's specifications and
best practices recommendations.

The term "provide" means to furnish, install, and connect services to make operational.

Extra work must be reviewed in writing and accepted by the owner prior to commencing. No extra payments shall be made without this written review.

Contractors shall completely test all systems and equipment, and adjust as required for proper operation prior to project closeout.

The contractors shall make all necessary provisions to pursue their work in a manner which
will assure that the operation of the building and the construction schedule is minimally impaired. This shall include but not be limited to, delivery of supplies and equipment, temporary utility connections, etc.

Contractors shall protect stored work and work in place from damage and theft at the end
of each work day.

All contractors shall be responsible for work complying with all applicable codes and ordinances.

All work shall conform to local building codes. Contractor shall be familiar with requirements. Failure to
comply shall be adjusted at no additional cost to owner.

Contractors shall make necessary arrangements with authorities and obtain required inspections.

The architect shall not be responsible for safety and construction procedures, techniques, or
the failure of the contractor to carry out the work in accordance with the drawings or required codes.

The architect does not supervise, will not be responsible for and will not have control of construction means, methods, techniques, procedures or safety precautions.

All codes, trade standards, and manufacturer's instructions referenced in the contract documents shall be the latest edition.

Deviations in design, products, or materials shall be permitted only with the written review and approval of the client. In cases of structural changes, all changes must be approved by the architect.

Substitutions shall only be up-grade equipment and material selection as per schedule. Products or equipment of lesser quality will not be accepted without review and acceptance
of a change order credit.

All interior finishes, colors and selections to be approved by owner prior to application.

All manufacturer's product specifications and/or warnings for products or materials, used in construction, must be strictly observed. The words "or equal" are to be assumed whenever a specific manufacturer is noted. It is the client's privilege and responsibility to approve all products substituted. The client should refer to the general contractor and architect when making these decisions.

Design Criteria:

Soil bearing shall be minimum 3000 psf.

Added fill to be done in layers no more than 6" deep at a time. Compact layer before adding another.

Fill must be clay or compactable gravel only.

Concrete shall meet minimum 3000 psi within 28 days.

Concrete shall be protected from frost for 14 days.

Roof snow load/live load to exceed 30 psf. Floor load to exceed 30 psf, live load to exceed 40 psf.

Basic wind speed load ratings to meet or exceed 115 mph.

All structural lumber shall be #1 spruce, pine, fir or better unless otherwise noted.

Joist and rafters: minimum fb=1200 psi

Headers: minimum fb=1450 psi, e=1,000,000 psi studs: minimum fb=600 psi, e= 1,000,000 psi

Parallel strand lumber (psl) shall have minimum of fb=2900 psi.

Laminated veneer lumber (lvl) shall have minimum of fb=2600 psi.

Install double joists or condense the spacing under kitchen cabinetry and bath tub areas and at parallel partitions.

Provide solid blocking in walls for towel bars.

Provide firestop at all penetrations and in walls taller than 8'-0" as required.

All smoke detectors shall be interconnected and hardwired 110v and have battery back up.

Install smoke detectors in all bedrooms and in hallways within 15'-0" of all bedroom doors.

Install carbon monoxide detectors within 15'-0" of all sleeping spaces.

Install min. one smoke and carbon monoxide detector per floor.

All handrails shall maintain graspability w/ 1 1/2" dia. Grip. All handrails must be designed in accordance w/ the International Residential Code.

Flash all heads of windows and exterior doors. No sealant at head of any openings.

Fire stop all flue chases at floor decks and at attics/ceilings.

All toilet room exhaust, dryer vents, and range hoods shall vent directly to the exterior.

Insulation in floor/ceiling assemblies, crawl spaces, and attics shall have a max. 25 flame spread rating and max. 450 smoke developed rating.

Shingles and roll roofing must be attached with galv. or alum. roofing nails; staples are not permitted.

Provide silt fence as required.

PLUMBING NOTES:

ALL SUPPLY AND ABOVE GROUND PIPING LINES SHALL BE TYPE "L" COPPER w/COPPER FITTINGS OR CROSS-LINKED POLYETHYLENE "PEX" TUBING. UNDERGROUND WATER SUPPLY SHALL BE TYPE "K" COPPER OR UNDERGROUND 160 PSI POLY ISO POTABLE TUBING.

NO SUPPLY LINES SHALL BE LOCATED IN EXTERIOR WALLS, INCLUDING GARAGE/HOME COMMON WALLS.

Hot water pipes are insulated to ≥R-3

UNDERGROUND SEWER SERVICE AND VENT PIPING TO BE SCHEDULE 40 PVC.

PROVIDE NON SCALDING SHOWER VALVES.

NO POLYBUTYLENE PIPING SHALL BE USED.

WATER LINES TO SECOND FLOOR TO HAVE 18" AIR CHAMBERS.

75lb AIR TEST SHALL BE PERFORMED ON ALL WATER PIPING AT TIME OF ROUGH INSPECTION.

ALL NEW PLUMBING SHALL MEET ILLINOIS STATE PLUMBING CODE.

TIE NEW PLUMBING INTO EXISTING 1" WATER SERVICE.

ALL BATH VENTS MUST VENT TO EXTERIOR OF BUILDING

Fuel gas lighting systems have no continuous pilot light

PROVIDE SHUT OFF VALVES FOR LINES AT EACH FIXTURE

MECHANICAL NOTES:

LAYOUT AND SIZE OF MECHANICAL EQUIPMENT IS TO BE PROVIDED BY MECHANICAL CONTRACTOR. VERIFY SIZE AND LOCATION OF MECHANICAL EQUIPMENT WITH OWNER PRIOR TO THE START OF INSTALLATION.

HEATING SYSTEM IS TO MAINTAIN 70 DEGREES INSIDE WITH -10 DEGREES OUTSIDE AND 15 MPH WIND SPEED.

Air handler leakage designated by manufacturer at <=2% of design air flow.

ALL DUCT WORK IS TO BE GALVANIZED STEEL OR ALUMINUM AND SEALED WITH UL-181 FOIL TAPE. Building cavities are not used as ducts or plenums.

Supply and return ducts in attics insulated >= R-8 where duct is >= 3 inches in diameter and >= R-6 where < 3 inches. Supply and return ducts in other portions of the building insulated >= R-6 for diameter >= 3 inches and R-4.2 for < 3 inches in diameter.

ALL THERMOSTATS SHALL BE PROGRAMMABLE TYPE.

HVAC piping conveying fluids above 105 °F or chilled fluids below 55 °F are insulated to ≥R-3.

Hot water pipes to be insulated to ≥R-3.

Privide appropriate protection for all pipe insulation

GRAVITY DAMPERS TO BE INSTALLED ON ALL OUTDOOR AIR INTAKES AND EXHAUSTS

Fuel gas lighting systems have no continuous pilot light

BLOWER DOOR TEST @ 50 Pa. <=3 ach in Climate Zones 3-8

Habitat for Humanity of McHenry County

www.habitatmchenry.org

A New Habitat Home for

34681 NOKOMIS TRAIL
McHenry, IL

No.	Description	Date

- For Review
- For Bid
- For Permit
- For Construction

Cover Sheet

Project number	01-25
Date	4.20.25
Drawn by	MS
Checked by	BL
	A0
Scale	As indicated

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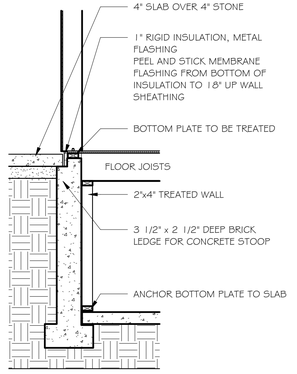
CONCRETE STANDARDS:

A. CONCRETE FORM WORK SHALL BE ADEQUATELY TIED TOGETHER AND BRACED TO FORM TRUE LINES, SQUARE CORNERS, AND PLUMB WALLS.
B. PROVISIONS MUST BE TAKEN BY CONTRACTOR TO PROTECT ALL CONCRETE WORK FROM FROST DAMAGE.

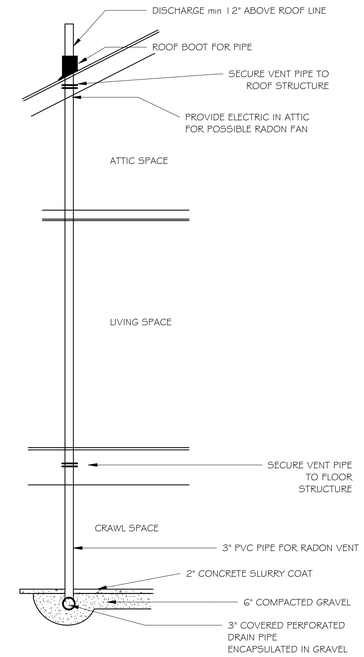
CONCRETE REINFORCING
A. REINFORCING BARS SHALL BE NO.5 BILLET DEFORMED STEEL BARS A.S.T.M. A-615 GRADE 40 (FY = 60,000 PSI) UNLESS NOTED OTHERWISE.
B. CONCRETE REINFORCING SHALL HAVE A MINIMUM OF 2" OF CONCRETE PROTECTION.
C. CONTINUOUS BARS SHALL LAP max 36" WHERE SPLICED, BUT NOT LESS THAN 18". NOT MORE THAN 1/3 OF THE BARS SHALL BE SPLICED AT ONE POINT.
D. PROVIDE 6 X 6 - W4 X W4 (UNLESS NOTED OTHERWISE) IN ALL CONCRETE SLABS AND WALKS. LAP SEAMS A MINIMUM OF 8" BETWEEN OUTERMOST CROSS WIRES.
F. PROVIDE (2) CONTINUOUS #5 BARS AT THE TOP AND THE BOTTOM OF ALL CONCRETE FOUNDATION WALLS UNLESS NOTED OTHERWISE.
G. PROVIDE (2) CONTINUOUS #5 BARS IN CONCRETE FOUNDATION WALLS OVER OPENINGS (BASEMENT WINDOWS, CRAWL SPACE ACCESS, ETC.) LESS THAN 3'-6" WIDE. EXTEND BARS A MINIMUM OF 12" BEYOND OPENING EACH WAY.
H. PROVIDE A MINIMUM OF (4) HOOKED #4 BARS, MINIMUM 4'-0" LONG AT ADJOINING OF FOOTING /FOUNDATION WALL ELEVATION CHANGES.
I. AT ON-GRADE CONCRETE SLABS THE W.W.F. REINFORCEMENT SHALL BE LOCATED MIDWAY IN THE SLAB THICKNESS.

CONCRETE ACCESSORIES
A. SUPPORTS AND SPACERS WHICH REST ON EXPOSED SURFACES SHALL BE HOT DIPPED GALVANIZED OR PLASTIC TIPPED.
B. ANCHOR BOLTS SHALL BE 1/2" DIAMETER AND EMBEDDED A MINIMUM OF 7". PLACEMENT OF ANCHOR BOLTS SHALL BE: A MAXIMUM OF 12" FROM PLATE END, MAXIMUM OF 4'-0" O.C. A MINIMUM OF 2 BOLTS PER BEARING PLATE SECTION. PROJECT BOLT 2 1/2" FROM TOP OF FOUNDATION WALL.
C. PROVIDE 10 MIL POLYETHYLENE VAPOR BARRIER MEMBRANE UNDER INTERIOR SLABS, COMPLY WITH A.S.T.M. D-2103.

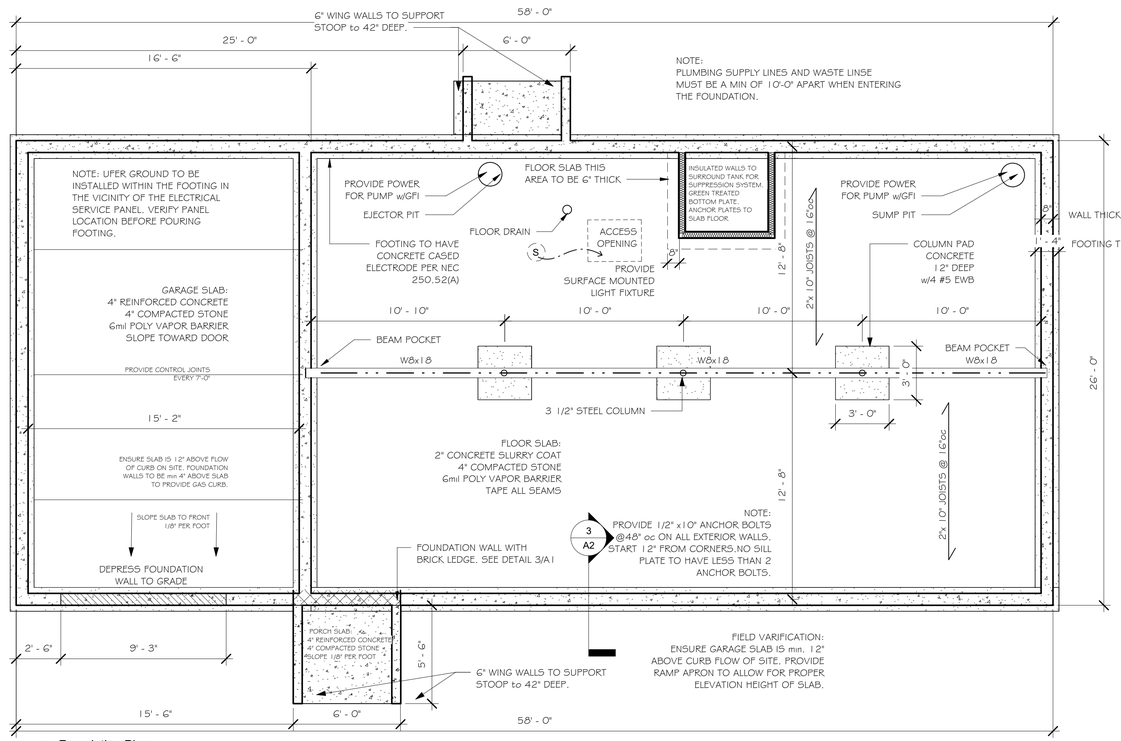
CAST-IN PLACE CONCRETE
A. CAST-IN PLACE CONCRETE SHALL BE "READY- MIXED" AND SHALL CONTAIN A MINIMUM OF 5 BAGS OF CEMENT PER CUBIC YARD OF CONCRETE.
B. CAST-IN PLACE CONCRETE SHALL BE POURED CONTINUOUSLY WITH NO COLD JOINTS, AND VIBRATED TO ELIMINATE AIR POCKETS AND HONEYCOMB EFFECTS.
C. NO CONCRETE SHALL BE POURED ON FROZEN GROUND OR SUBJECTED TO FREEZING CONDITIONS.
D. ALL CONCRETE FOOTINGS, FOUNDATIONS, AND BASEMENT SLABS SHALL ATTAIN A 28 DAY ULTIMATE COMPRESSIVE STRENGTH OF 3000 PSI AS PER CURRENT A.S.T.M. C-150, TYPE 1.
E. CONCRETE FOOTINGS SHALL BE A MINIMUM 20" WIDE AND 10" THICK UNLESS NOTED OTHERWISE.
F. CONCRETE FOUNDATION WALLS SHALL BE A MINIMUM OF 10" THICK UNLESS NOTED OTHERWISE. POUR WING WALLS MONOLITHICALLY WITH FOUNDATION WALLS.
G. ALL CONCRETE FLAT-WORK (DRIVEWAYS, GARAGE SLABS, SIDEWALKS, PATIOS, TERRACES, STOOPS, ETC.) SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI. 4" CONCRETE SLABS AND WALKS SHALL HAVE A MINIMUM OF 4" COMPACTED GRANULAR FILL. 5" CONCRETE SLABS SHALL HAVE A MINIMUM OF 5" COMPACTED GRANULAR FILL.
H. INTERIOR CONCRETE SLABS SHALL HAVE CONTROL JOINTS A MAXIMUM OF 10'-0" O.C. EACH WAY. PROVIDE ISOLATION JOINTS AT INTERIOR COLUMNS. PROVIDE A 1/2" FILLER EXPANSION JOINT AT THE PERIMETER OF
THE SLAB WHERE INDICATED.
I. CONCRETE WALKS SHALL BE 4" THICK, HAVE A BROOM FINISH, AND HAVE CONTROL JOINTS AT 5'-0" O.C OR AS SHOWN ON DRAWINGS.
K. EXTERIOR CONCRETE SHALL HAVE BETWEEN FIVE (5) AND SEVEN (7) PERCENT AIR ENTRAINMENT



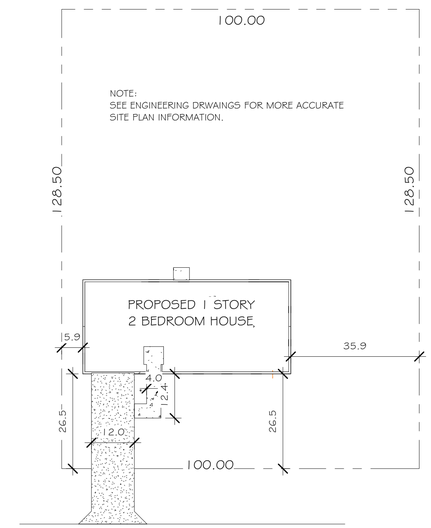
3 Section @ Front ADA Stoop
1/2" = 1'-0"



Radon Vent Detail
1/2" = 1'-0"



1 Foundation Plan
1/4" = 1'-0"



2 Site Plan
1" = 20'-0"

Habitat for Humanity of McHenry County

www.habitatmchenry.org

A New Habitat Home for
34681 NOKOMIS TRAIL
McHenry, IL

No.	Description	Date

For Review
For Bid
For Permit
For Construction

Foundation and Notes

Project number	01-25
Date	4.20.25
Drawn by	mcs
Checked by	mcs

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Scale: As indicated

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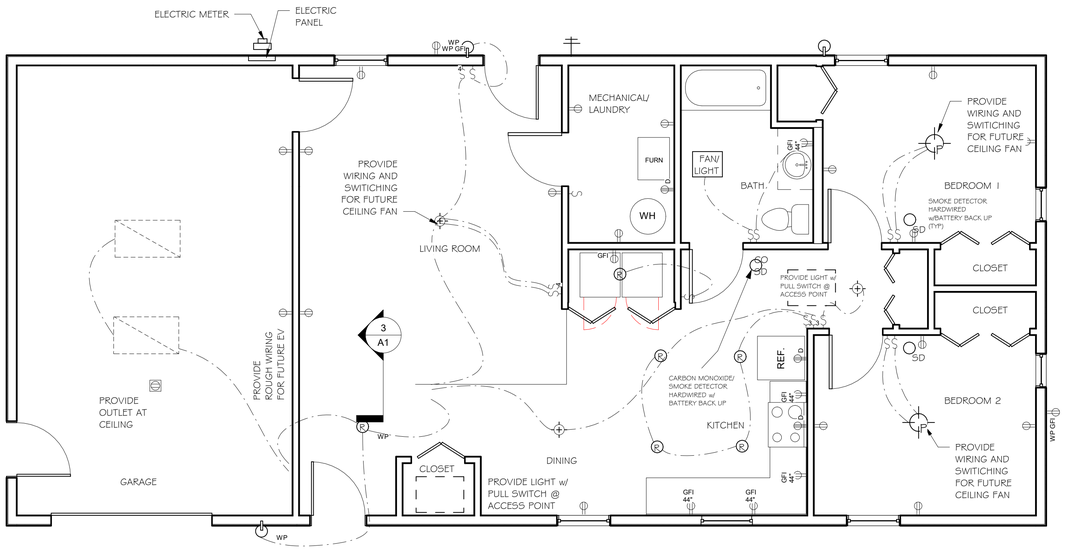


2 Electric Plan
1/4" = 1'-0"

ELECTRICAL NOTES:

ALL WIRING SHALL BE IN RIGID METAL CONDUIT. ELECTRICAL SERVICE SHALL BE GROUNDED.

ELECTRICAL CONTRACTOR SHALL DESIGN AND INSTALL IN ACCORDANCE WITH LOCAL CODES.

COUNTER TOP OUTLETS ARE TO BE SPACED NO MORE THAN 4'-0" o.c. HORIZONTALLY

ALL WALLS TO HAVE RECEPTACLES SPACED NO MORE THAN 12'-0" o.c. HORIZONTALLY

FLEXIBLE CONDUIT CAN ONLY BE USED IN LENGHTS OF 6'-0" OR LESS.

SMOKE DETECTORS SHALL BE 110v INTERCONNECTED WITH BATTERY BACKUP. A MIN. OF 1 SMOKE DETECTOR SHALL BE PROVIDED IN EACH BEDROOM AND WITHIN 15'-0" OF EACH BEDROOM DOOR. VERIFY EXISTING HOUSE MEETS REQUIREMENTS.

ALL BEDROOM AND LIVING SPACE OUTLETS SHALL BE AFCI PROTECTED - COMBINATION TYPE.

ALL WIRING FROM METER THROUGH THE MAIN DISTRIBUTION PANEL AND FEEDERS THROUGHOUT THE BUILDING SHALL BE COPPER. ALUMINUM AND COPPER CLAD WIRING SHALL NOT BE PERMITTED.

ALL OUTLETS SHALL BE TAMPER RESISTANT.

ALL EXTERIOR OUTLETS SHALL BE EQUIPPED WITH WEATHER PROOF ENCLOSURES AND BE WEATHER RESISTANT TYPE GFCI PROTECTED AND TAMPER RESISTANT.

RECESSED FIXTURES TO BE IC RATED.

ALL LIGHT FIXTURES AT BATH TUBS AND SHOWERS SHALL BE WATER/VAPOR PROOF AND GFCI PROTECTED.

ALL CEILING FIXTURE BOXES SHALL BE RATED FOR CEILING FANS.

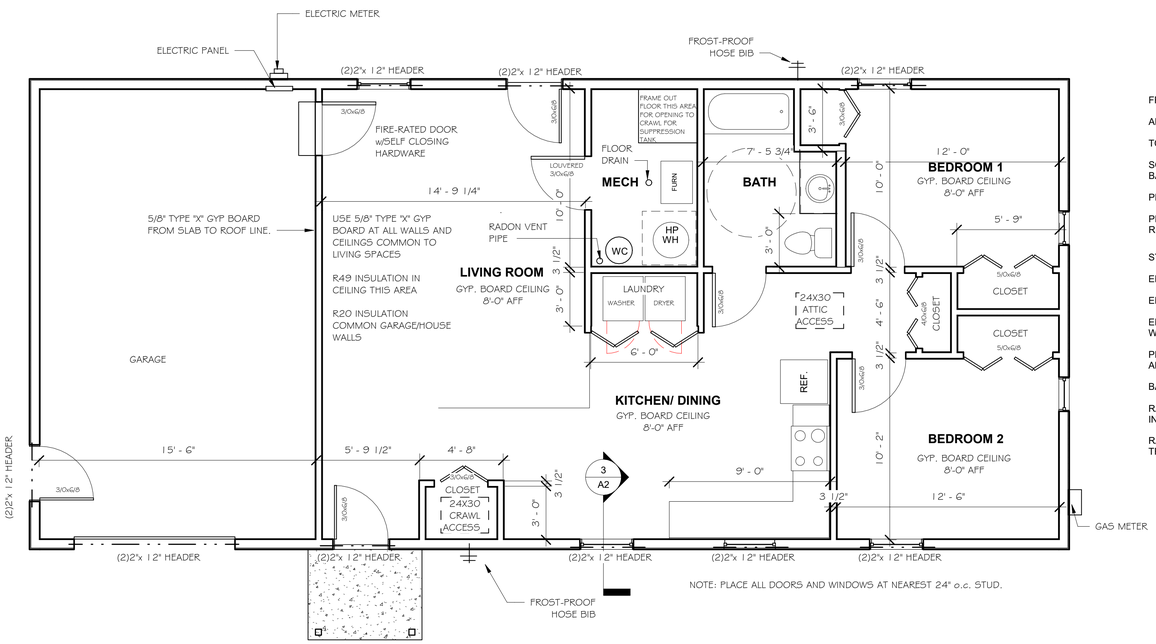
ELECTRICAL SWITCHES WITHIN 5'-0" OF BATH TUBS, SHOWERS AND SINKS SHALL BE GFCI PROTECTED.

ALL LOW VOLTAGE WIRING SHALL BE INSTALLED IN APPROVED RACEWAYS PER CODE.

ALL PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL BE HIGH EFFICIENCY LAMPS.

LIGHTING SYMBOLS

	FLUSH MOUNT FIXTURE
PS	FLUSH MOUNT w/PULL SWITCH
	WALL SCONCE FIXTURE
R	RECESSED CAN FIXTURE
	FLUORESCENT FIXTURE



1 Floor Plan
1/4" = 1'-0"

FRAMING NOTES:

ALL WALLS TO HAVE DOUBLE TOP PLATES.

TOP PLATES TO OVERLAP AT WALL CORNERS AND INTERSECTIONS.

SOLID FIRE BLOCKING TO BE INSTALLED ALL AREAS THAT WOULD EXCEED 10' OF OPEN BAY SPACE IN WALLS, FLOORS OR CEILINGS.

PROVIDE GYP BOARD 2X NAILERS.

PROVIDE INFILL FOR ALL EXTERIOR WALL AREAS WHERE EXISTING WINDOWS ARE REMOVED.

STAIR & RAILING NOTES:

ENSURE THE max RISER HEIGHT IS 7 3/4" WITH A VARIATION NO GREATER THAN 3/8"

ENSURE THE min TREAD DEPTH IS 10 1/2"

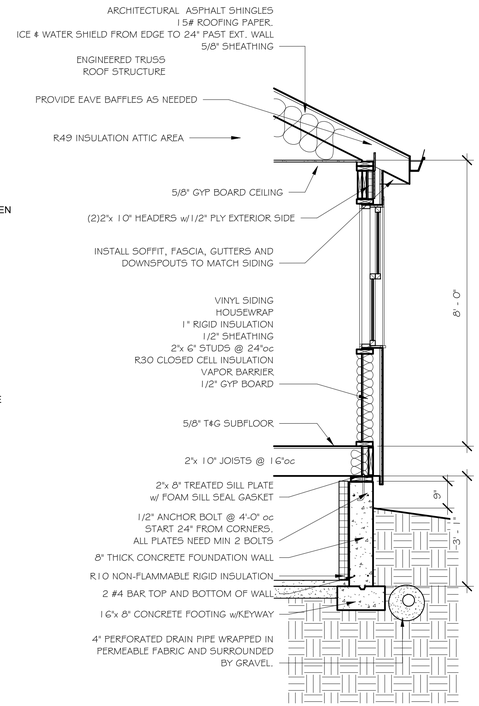
ENSURE THE min STAIR WIDTH TO BE 36" WITH LANDINGS TO BE min SAME STAIR WIDTH.

PROVIDE A CONTINUOUS RAILING FROM TOP TO BOTTOM FOR ALL STAIRS THAT RISE ABOVE 30". RAILINGS MUST RETURN TO WALL TOP & BOTTOM.

BALLUSTERS MUST HAVE A max SPACING OF 4"

RAILINGS MUST WITHSTAND A min OF 200 LBS OF FORCE APPLIED TO THE TOP EDGE IN ANY DIRECTION.

RAILINGS TO BE MOUNTED BETWEEN 34" & 38" HIGH FROM TOP OF HORIZONTAL TREAD NOSING.



3 Typical Wall Section
1/2" = 1'-0"

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Floor & Electric Plans

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Drawn by	Author
Checked by	Checker

A2

Scale: As indicated

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NOTE: INSULATION IS EXTERIOR SIDE OF WALL

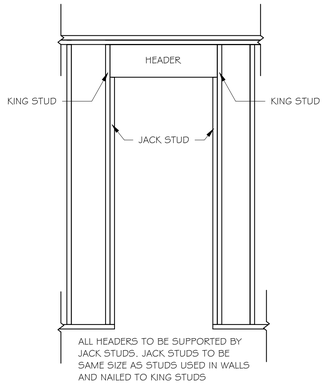
2x HEADER FOR 2"x 6" WALL:
(2) 2"x DIMENSIONAL LUMBER
1 1/2" RIGID INSULATION

LVL HEADER FOR 2"x 6" WALL:
(2) 1 3/4"X 1 1 7/8" LVL
1 1/2" RIGID INSULATION

2x HEADER FOR 2"x 4" WALL:
(2) 2"x DIMENSIONAL LUMBER
1/2" RIGID INSULATION

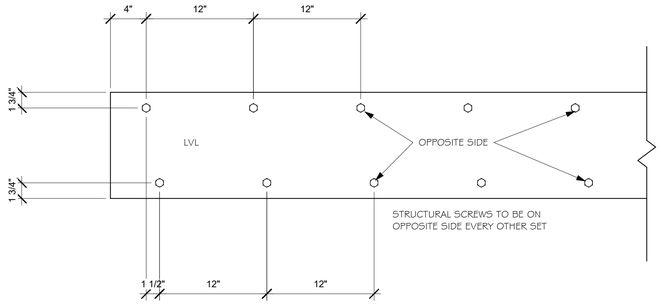
LVL HEADER FOR 2"x 4" WALL:
(2) 1 3/4"X 1 1 7/8" LVL

Header Details
1 1/2" = 1'-0"



Header Framing
1/2" = 1'-0"

LVL BEAMS TO BE SECURED TOGETHER WITH APPROVED STRUCTURAL SCREWS (i.e. SIMPSON, MiTek) THAT ARE 1/4"x 3 1/2". START SCREWS 4" FROM EACH END OF BOARD. SCREWS TO BE 1 3/4" FROM TOP AND BOTTOM. STAGGER SCREWS 1 1/2" FROM TOP TO BOTTOM SCREW. PLACE SETS OF SCREWS EVERY 12" APART. SET OF SCREWS SHOULD ALERNATE FACES OF BEAM. SEE BELOW



Structural Screw Pattern for beams
1 1/2" = 1'-0"

NOTES ON BRACING WALLS:

EXTERIOR WALLS ON SECOND FLOOR THAT ARE PERPENDICULAR TO THE FLOOR JOISTS TO BE SHEATHED WITH 9'-4" PANELS TO ALLOW FOR OVERLAP OF RIM BOARD.

EXTERIOR WALLS ON SECOND FLOOR THAT ARE PARALLEL TO THE FLOOR JOISTS TO HAVE A DOUBLE FLOOR JOIST RUNNING UNDERNEATH.

EXTERIOR WALLS ON FIRST FLOOR ADDITION TO HAVE min (2) 1/2" BOLTS PER PLATE WITH 2"x 2"x 3/16" WASHER PLATES.

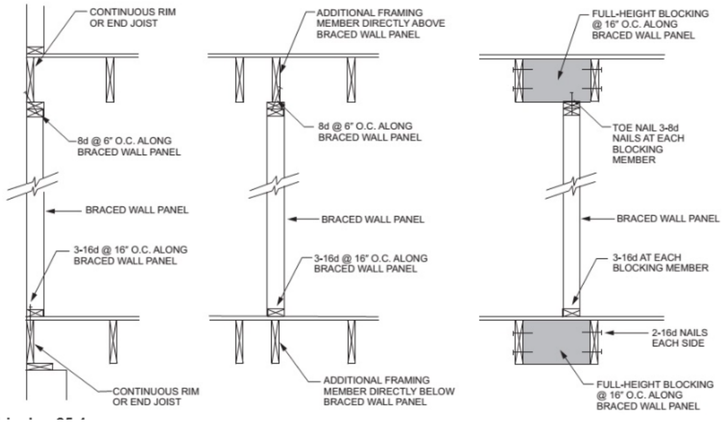
ALL EXTERIOR WALLS TO BE SHEATHED WITH ZIP SYSTEM STRUCTURAL PANELS TO CREATE CONTINUOUSLY SHEATHED WALL PANEL CONSTRUCTION.

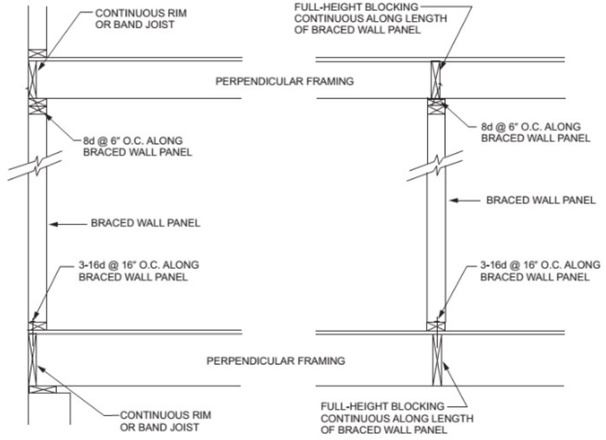
FOLLOW NOTES ON THIS PAGE AS REFERENCE FOR CONSTRUCTION NEEDS AND NAILING PATTERNS.

ALL PANELS TO USE 8d NAILS min. NAIL ALL EDGES AT A 6" SPACING AND FIELD STUDS AT 12" SPACING.

BOTTOM PLATES TO BE NAILED TO RIBBON JOIST WITH (3) .131 FRAMING NAILS AT A 16" o.c. SPACING. NAILS MUST HIT RIBBON JOIST AND TOP OF JOISTS. ADD A NAIL BETWEEN EACH FLOOR JOIST INTO THE RIBBON JOISTS SO RIBBON JOIST IS NAILED INTO EVERY 8" o.c.

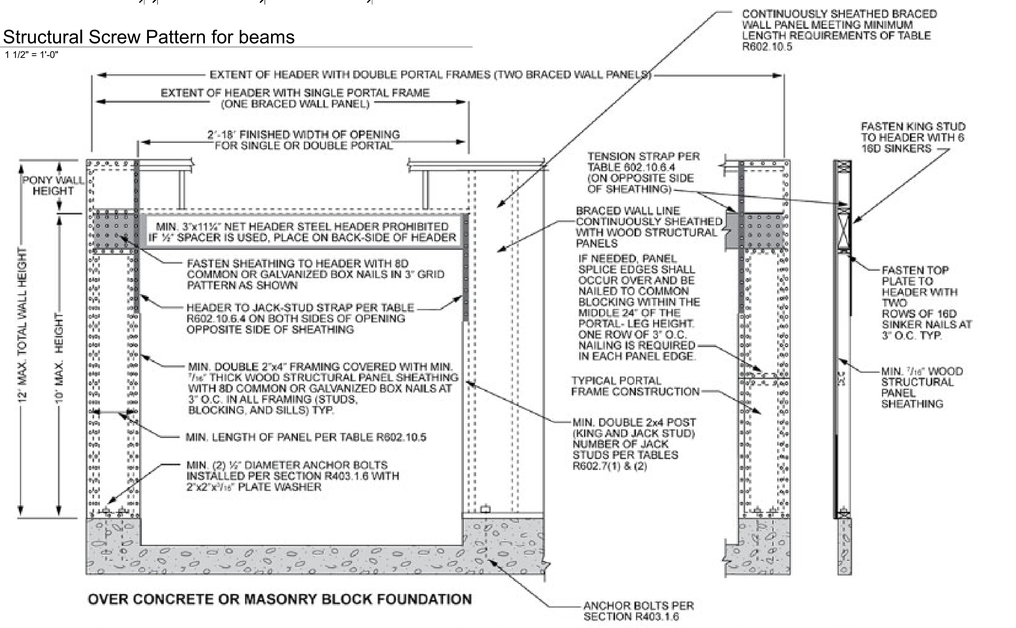
RIBBON JOISTS TO BE TOE-NAILED FROM EXTERIOR FACE TO DOUBLE TO PLATES WITH min 8d NAILS EVERY 6" o.c. .131 FRAMING NAILS PREFERRED.





For SI: 1 inch = 25.4 mm.

FIGURE R602.10.8(1) BRACED WALL PANEL CONNECTION WHEN PERPENDICULAR TO FLOOR/CEILING FRAMING



For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

FIGURE R602.10.6.4 METHOD CS-PF—CONTINUOUSLY SHEATHED PORTAL FRAME PANEL CONSTRUCTION

Habitat for Humanity of McHenry County

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A New Habitat Home for
34681 NOKOMIS TRAIL
McHenry, IL

No.	Description	Date

For Review
For Bid
For Permit
For Construction

Details

Project number	01-25
Date	4.20.25
Drawn by	Author
Checked by	Checker
	A3
Scale	As indicated

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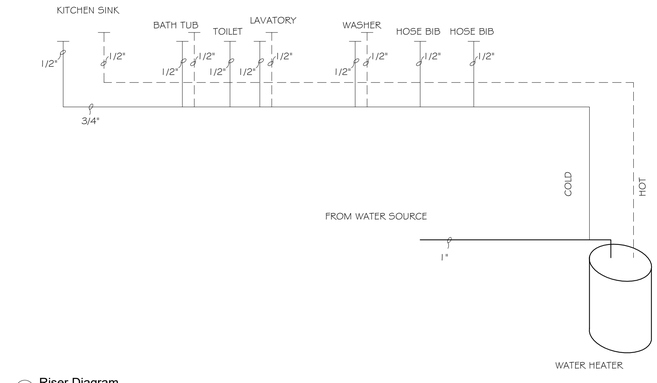
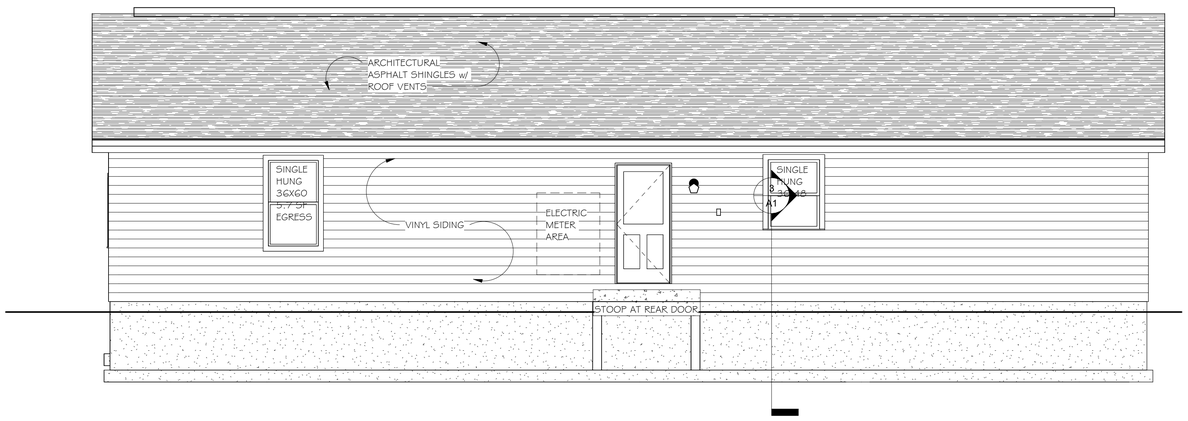
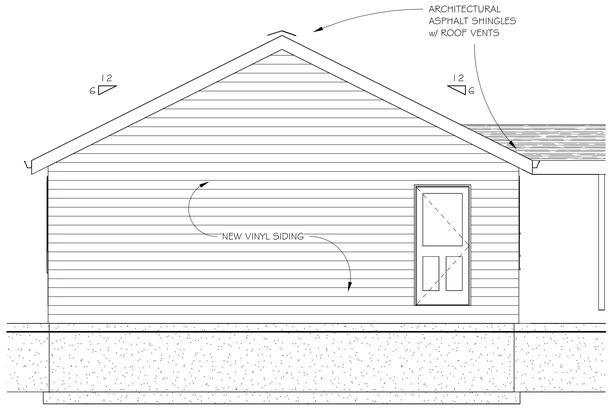


Riser Diagram
1" = 1'-0"

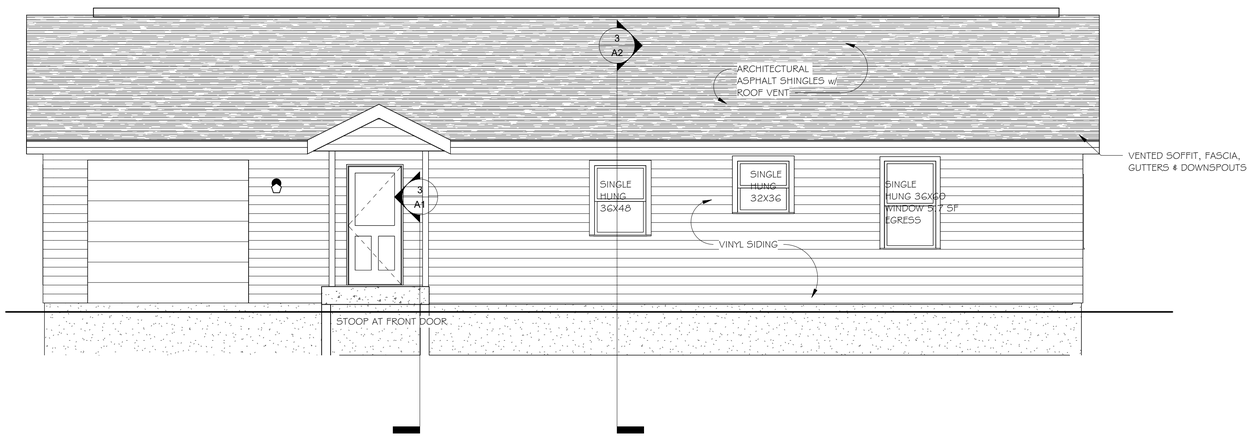


2 Rear Elevation
1/4" = 1'-0"

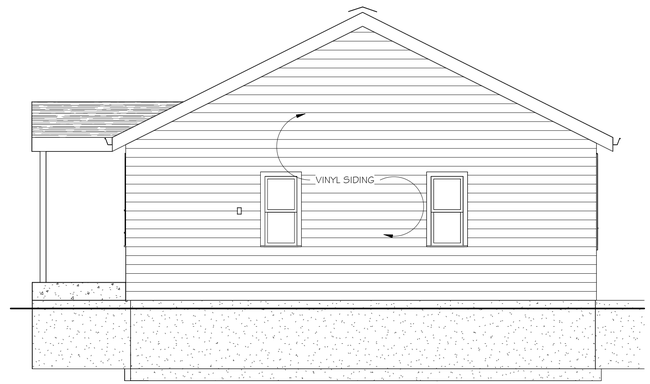


4 Right Side Elevation
1/4" = 1'-0"

NOTE:
PROVIDE ROOF VENTILATION TO SUPPORT A RATIO OF 1:150 VENT TO AREA VENTED. USE BAFFLES AT ALL EAVE LINES TO ENSURE INSULATION DOES NOT DISRUPT VENTIALTION.



1 Front Elevation
1/4" = 1'-0"



3 Left Side Elevation
1/4" = 1'-0"

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Exterior Elevations

Project number	01-25
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A4

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