

**PROFESSIONAL CERTIFICATION**  
 I certify that these documents were prepared or approved by me, and that I am a duly licensed professional architect under the laws of the State of Maryland, License Number #14678, Expiration Date: 6/30/2022

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## PROPOSED RESIDENCE

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### ISSUE DATE

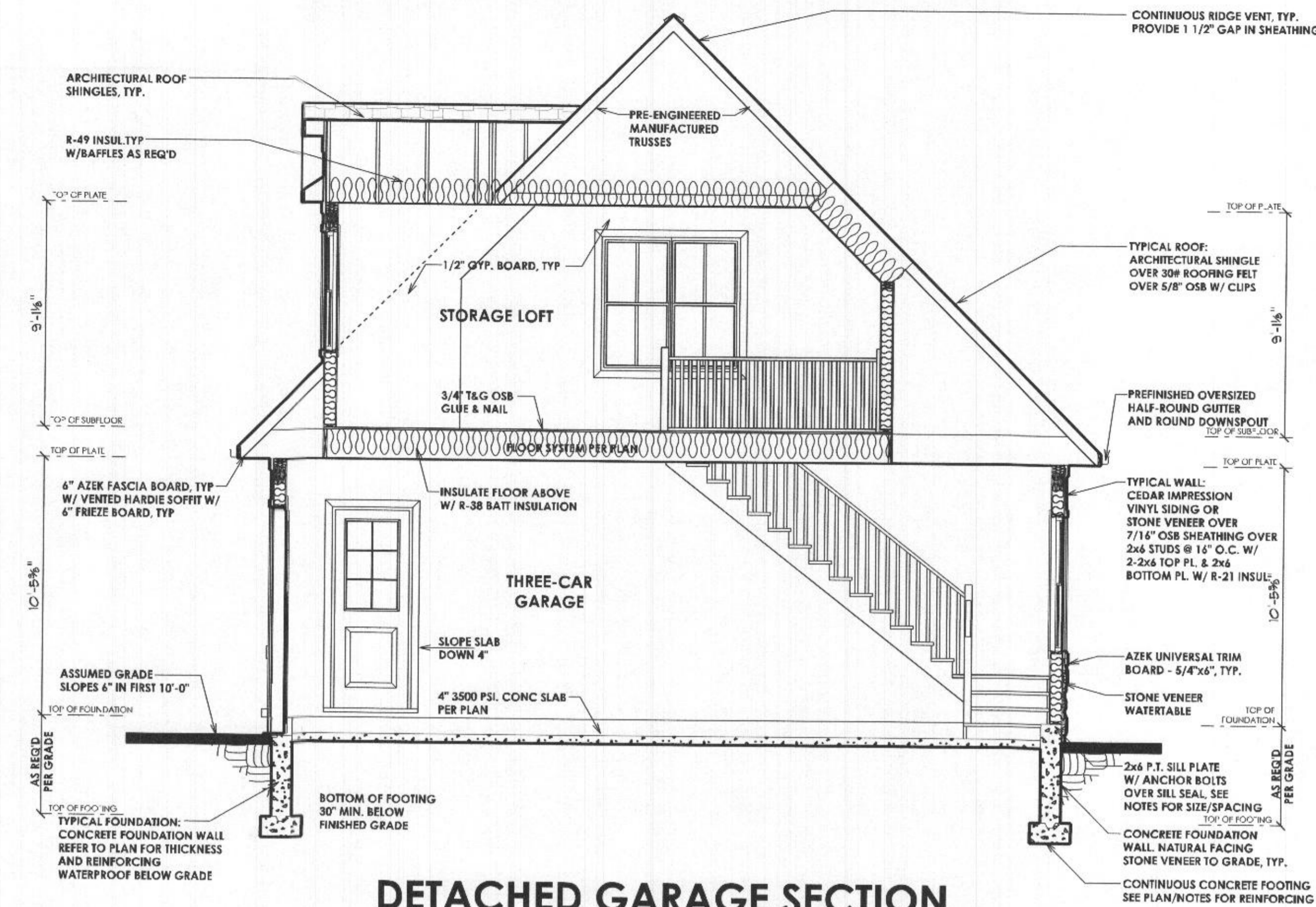
3-12-22	PERMIT SET

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

### SECTIONS

# 5.01

PRINT DATE:  
 Tuesday, March 22, 2022



- SECTION NOTES**
- 2000 PSF MIN SOIL BEARING CAPACITY ASSUMED
  - BEAMS, JOISTS, HEADERS & RAFTERS TO BE SPF #1/82 OR EQ. TYP THROUGH U.N.O.
  - BASEMENT WINDOW LOCATIONS TO BE DETERMINED AT PRECON.
  - ALL LOCATIONS FOR HVAC, SUMP PUMPS, ROUGH-INS, H/W/H, A/H AND OTHER FEATURES ARE SUBJECT TO BUILDER DISCRETION ON SITE
  - FOUNDATION WALL MIN. THICKNESS 10" WHERE STEAM WALL AT BRICK LEDGE EXCEEDS 16" HIGH
  - VERIFY SIZE AND LOCATION OF WINDOWS PER GRADE & BUILDER
  - MIN. 1/2" HOOKED ANCHOR BOLTS EMBEDDED A MIN. 7" INTO CONC. SHALL BE SPACED AT 4' O.C. AND LOCATED 4" & 12" FROM EACH END OF ALL SILL PLATE PIECES.



## SECTION A-A

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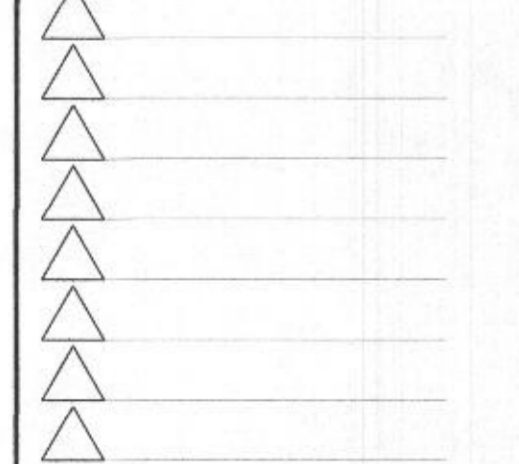
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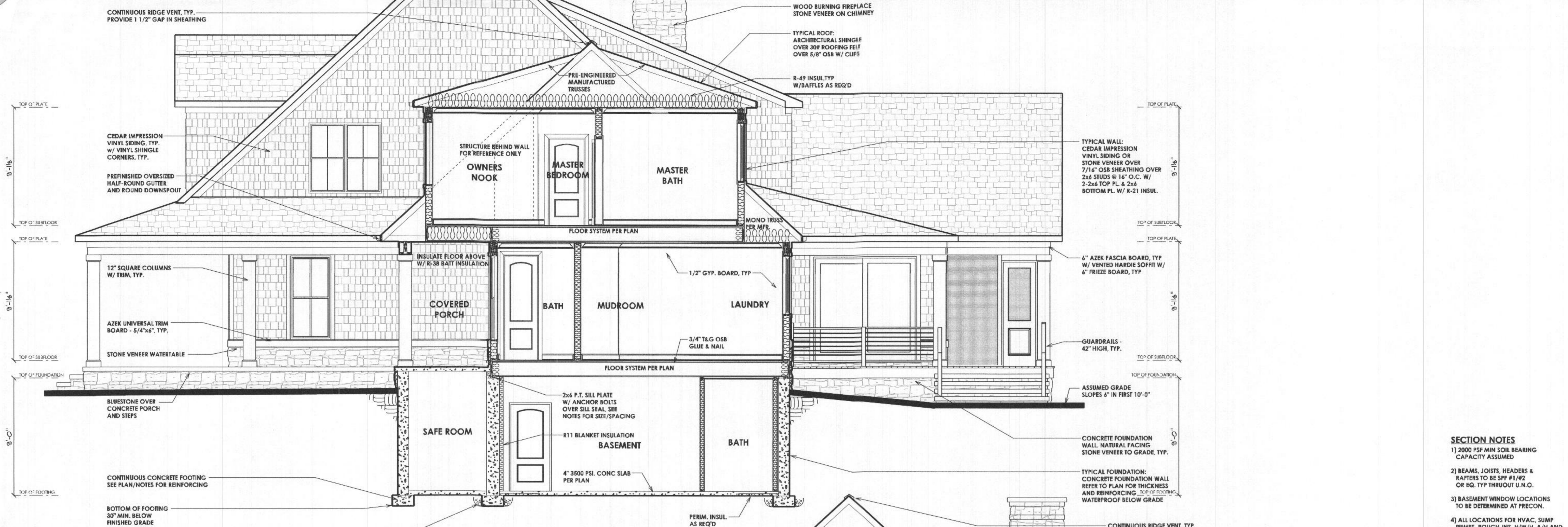


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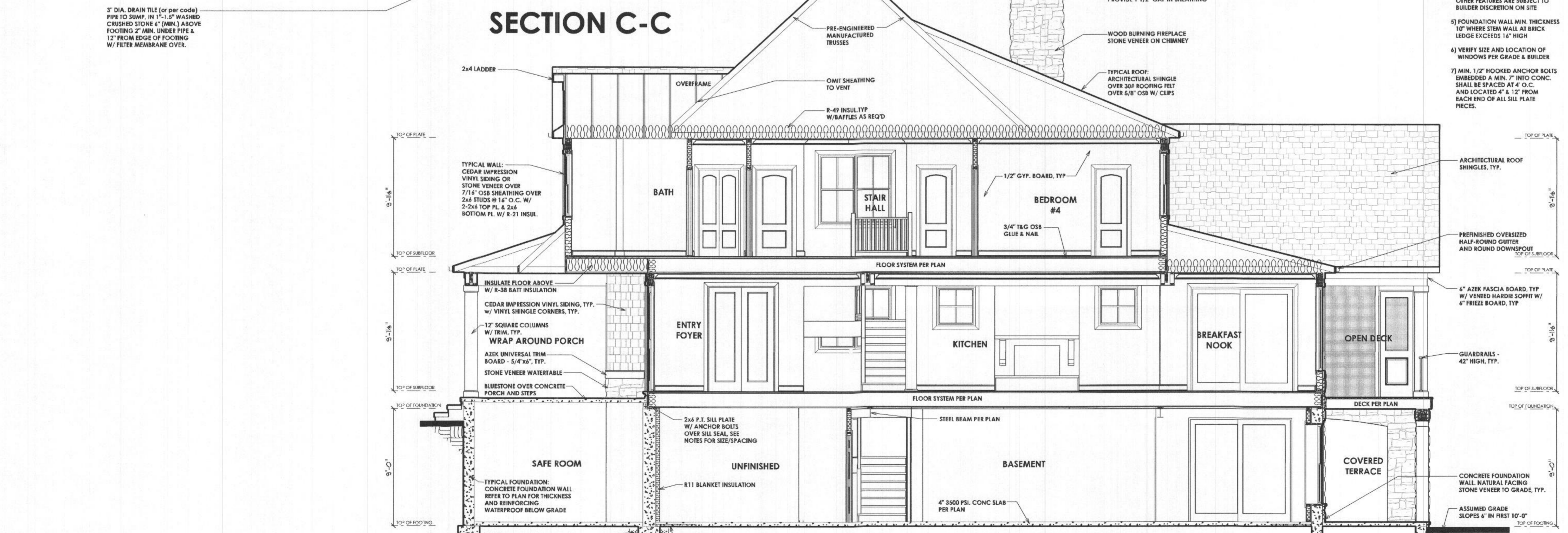
**SECTIONS**

**5.02**

PRINT DATE:  
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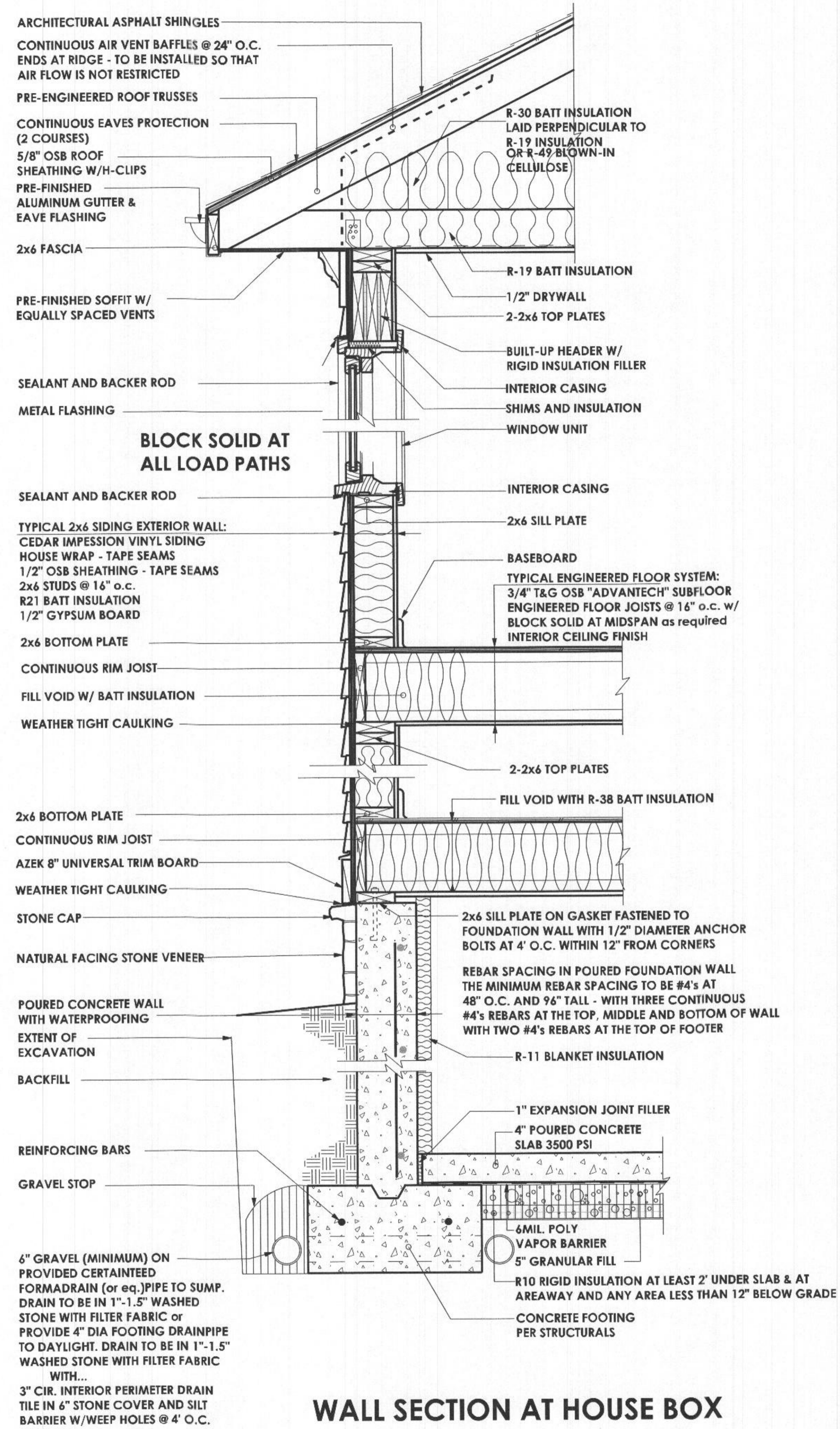


**SECTION C-C**

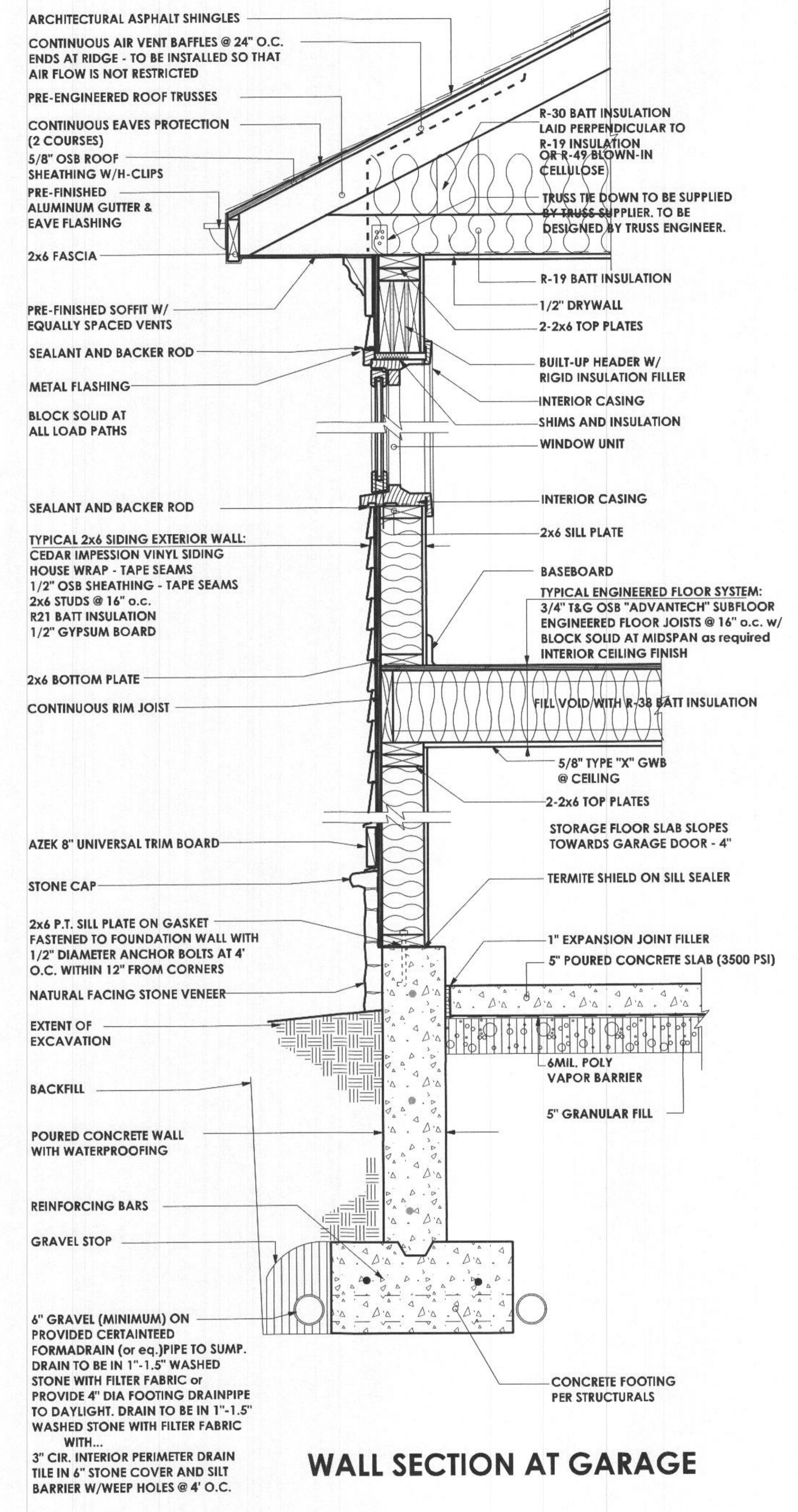


**SECTION B-B**

- SECTION NOTES**
- 1) 2000 PSF MIN. SILL BEARING CAPACITY ASSUMED.
  - 2) BEAMS, JOISTS, HEADERS & BATTERS TO BE SPF #1/2 OR EQ. TYP. THRUOUT U.N.O.
  - 3) BASEMENT WINDOW LOCATIONS TO BE DETERMINED AT PRECON.
  - 4) ALL LOCATIONS FOR HVAC, SUMP PUMPS, ROUGH-INS, H/W/H, A/H, AND OTHER FEATURES ARE SUBJECT TO BUILDER DISCRETION ON SITE.
  - 5) FOUNDATION WALL MIN. THICKNESS 10" WHERE STEM WALL AT BRICK LEDGE EXCEEDS 16" HIGH.
  - 6) VERIFY SIZE AND LOCATION OF WINDOWS PER GRADE & BUILDER.
  - 7) MIN. 1/2" HOOKED ANCHOR BOLTS EMBEDDED A MIN. 7" INTO CONC. SHALL BE SPACED AT 4' O.C. AND LOCATED 4" & 12" FROM EACH END OF ALL SILL PLATE PIECES.



**WALL SECTION AT HOUSE BOX**



**WALL SECTION AT GARAGE**

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SCALE: 1" = 1'-0"

**WALL SECTIONS**

**5.10**

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## CODE AND STANDARDS

THE FOLLOWING CODES AND STANDARDS, INCLUDING ALL SPECIFICATIONS REFERENCED WITHIN, SHALL APPLY TO THE DESIGN, CONSTRUCTION, QUALITY CONTROL AND SAFETY OF ALL WORK PERFORMED ON THE PROJECT. USE THE LATEST EDITIONS UNLESS NOTED OTHERWISE.

- INTERNATIONAL RESIDENTIAL CODE FOR ONE AND TWO FAMILY DWELLINGS (IRC), INTERNATIONAL CODE COUNCIL, INC., 2015
- INTERNATIONAL BUILDING CODE (IBC), INTERNATIONAL CODE COUNCIL, INC., 2015
- MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES (ANSI/ASCE 7-10-2010), AMERICAN SOCIETY OF CIVIL ENGINEERS.
- BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 308-14, AMERICAN CONCRETE INSTITUTE.
- CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 302-14, AMERICAN CONCRETE INSTITUTE.
- MANUAL OF STEEL CONSTRUCTION - ALLOWABLE STRESS DESIGN, NINTH EDITION, 1989, AMERICAN INSTITUTE OF STEEL CONSTRUCTION (INCLUDING SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, AND AISC CODE OF STANDARD PRACTICE WITH EXCEPTION, IF ANY, AS INDICATED IN THE SPECIFICATIONS).
- MANUAL OF STEEL CONSTRUCTION, VOLUME II CONNECTIONS, ASD 4TH EDITION/LRFD 1ST EDITION, AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
- DETAILING FOR STEEL CONSTRUCTION, AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
- STRUCTURAL WELDING CODE ANSI/AWS D1-2011, AMERICAN WELDING SOCIETY.
- NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, AMERICAN IRON AND STEEL INSTITUTE, 2012.
- BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530-13/ASCE 5-13/TMS 402-13) & SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530-13/ASCE 6-13/TMS 602-13).
- NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION/ 2015, AMERICAN FOREST & PAPER ASSOCIATION.

## DESIGN LOADS

MISC	LIVE LOADS	DEAD LOADS	TOTAL
ROOF TRUSSES	30 PSF	10 PSF (TOP & BOTTOM)	50 PSF
RAFTERS	30 PSF	12 PSF	42 PSF
ATTIC FLOORS (TYP)	30 PSF	12 PSF	42 PSF
L1 STORAGE	20 PSF	12 PSF	32 PSF
NO STORAGE	10 PSF	5 PSF	15 PSF
SLEEPING ROOMS	40 PSF	12 PSF	42 PSF
OTHER FLOORS	40 PSF	12 PSF	52 PSF
GARAGE FLOORS	50 PSF	50 PSF	100 PSF
DECKS/BALCONY	40 PSF	10 PSF	50 PSF
STAIRS	40 PSF	20 PSF	60 PSF

<b>ROOF</b>	DESIGN = 30 PSF
<b>WIND</b>	BASIC WIND SPEED = 115 MPH (ULTIMATE), EXPOSURE B, IMPORTANCE = 1.0 PRESCRIPTIVE DESIGN PRESSURES = 11.9 PSF (ROOF AVG.), 12.1 PSF (WALL AVG.) TRUSS UPLIFT CONNECTION = 268 LBS/CONNECTION (TABLE R602.11)
<b>SNOW</b>	GROUND SNOW (P <sub>s</sub> )=40 PSF (THERMAL FACTOR=1), EXPOSURE FACTOR (C <sub>e</sub> )=1.0, IMPORTANCE=1.0 DESIGN (ROOF) = 20 PSF MINIMUM = 20 PSF RAIN-ON-SNOW = 23.0 PSF ADDITIONAL DRIFT AND SLIDING SNOW LOADS HAVE BEEN CONSIDERED WHERE APPLICABLE.*
<b>SEISMIC</b>	SEISMIC DESIGN CATEGORY B
<b>SOIL</b>	ASSUMED ALLOWABLE SOIL BEARING CAPACITY = 1500 PSF BACK FILL = 60 PCF EQUIVALENT FLUID WEIGHT, UNLESS OTHERWISE NOTED *IF THE LOCAL BUILDING OFFICIAL DETERMINES THAT THE SOIL CAPACITY AT THE SITE IS LESS THAN 1500 PSF, THE PARTIAL FOUNDATION MUST BE RE-EVALUATED.*

MECHANICAL UNITS & OTHER EQUIPMENT SUPPORTED BY THE STRUCTURE WITH HEIGHTS IN EXCESS OF 200' SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.

WEATHERING IS SEVERE

TERMITE INFESTATION PROBABILITY IS MODERATE TO HEAVY

DECAY PROBABILITY IS MODERATE

WINTER DESIGN TEMPERATURE IS 10° F

FROST LINE DEPTH IS 2'-6" BELOW FINISHED GRADE

FLOOD HAZARD IS DETERMINED BY LOCAL JURISDICTION

## SHOP DRAWINGS

THE GENERAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURAL ELEMENTS SHOWN ON THE CONTRACT DOCUMENTS FOR APPROVAL.

THE STRUCTURAL ENGINEER WILL NOT BE RESPONSIBLE FOR THE STRUCTURAL CERTIFICATION AND DESIGN OF THE PROJECT IF THE GENERAL CONTRACTOR FAILS TO OBTAIN APPROVAL OF THE SHOP DRAWINGS.

THE GENERAL CONTRACTOR SHALL INFORM THE STRUCTURAL ENGINEER IN WRITING CONCERNING DEVIATIONS AND/OR OMISSIONS FROM THE CONTRACT DOCUMENTS AT THE TIME OF SHOP DRAWING SUBMISSION.

THE GENERAL CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS AND SHALL MAKE ALL CORRECTIONS HE DEEMS NECESSARY BEFORE SUBMISSION.

THE GENERAL CONTRACTOR SHALL STATE ON THE SHOP DRAWINGS THAT CONTRACT DOCUMENT REQUIREMENTS HAVE BEEN MET AND THAT ALL DIMENSIONS, CONDITIONS AND QUANTITIES HAVE BEEN REVIEWED AND VERIFIED AS SHOWN AND/OR CORRECTED ON THE SHOP DRAWINGS.

## STRUCTURAL STEEL

STRUCTURAL STEEL I BEAMS SHALL CONFORM TO ASTM A572 GRADE 50 (50 ksi), STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A500, GRADE B, STRUCTURAL STEEL PIPE SHALL CONFORM TO ASTM A 53 GRADE B & ALL OTHER STRUCTURAL STEEL, INCLUDING PLATES AND MISCELLANEOUS SHAPES SHALL CONFORM TO ASTM A36, 36 ksi.

ALL SURFACES (INSIDE AND OUTSIDE) OF STEEL COLUMNS SHALL BE SHOP COATED WITH RUST-INHIBITIVE PAINT

BOLTS FOR CONNECTING STRUCTURAL STEEL SHAPES SHALL BE ASTM A325-N, 3/4", U.N.O. ON THE DRAWINGS OR IN THE PROJECT SPECIFICATIONS.

ANCHOR BOLTS SHALL CONFORM TO ASTM A307.

FABRICATION AND ERECTION OF ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE LATEST SPECIFICATION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION.

PROVIDE WELDED CONNECTIONS TYPICALLY UNLESS OTHERWISE NOTED. WELDING ELECTRODES SHALL BE E70 SERIES.

WELDS SHALL BE MADE ONLY BY WELDERS WHO HAVE BEEN FREQULAIRED BY TESTS OF THE AMERICAN WELDING SOCIETY, PRESCRIBED IN THE STRUCTURAL WELDING CODE, AWS D1.1 (LATEST EDITION).

ANY CONNECTION NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED AND DETAILED BY THE STRUCTURAL STEEL FABRICATOR. SEE THE TYPICAL BEAM CONNECTION DETAILS ON THE DRAWINGS.

HILL BOTTOM OF ALL COLUMNS AND FINISH TOP OF ALL BASE PLATES IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS. BASE PLATES SHALL BE WELDED TO BOTTOM OF COLUMNS.

CONNECTIONS SHALL BE AISC STANDARD.

## WOOD

MATERIAL	F	E	F	F <sub>allow</sub>	F <sub>allow</sub>	E <sub>allow</sub>
UNTREATED FRAMING 2x, 3x, OR 4x (DESIGN VALUES ARE BASED ON SPF No.2.)	875	450	135	425	150	1.4
5x5 AND LARGER (B)	600	300	125	425	425	1.0
5x5 AND LARGER (P)	500	325	125	425	500	1.0
TREATED FRAMING (DESIGN VALUES ARE BASED ON STP No.2.)	2x4	1500	825	175	565	1.6
2x6	1250	725	175	565	1600	1.6
2x8	2000	450	175	565	1550	1.6
2x10	1950	575	175	565	1500	1.6
2x12	1975	550	175	565	1450	1.6
5x5 & LARGER	850	550	165	375	525	1.2
L5L (1.3E) BEAM/COLUMN	1700	1075	425	710	1835	1.3
L5L (1.3E) PLANK	1900	1075	150	375	1835	1.3
L5L (1.55E) BEAM	2325	1070	310	400	2170	1.55
L5L (2.0E) BEAM	2600	850	285	750	2540	2.0
PSL BEAM	2650	1650	295	750	3000	1.7
COLUMN	2650	1650	295	750	3000	1.7

NOTE: DESIGN VALUES ARE FOR NORMAL LOAD DURATION AND DRY SERVICE CONDITIONS. SEE AISC OR MANUFACTURER SPECIFICATION FOR APPROPRIATE DESIGN VALUE ADJUSTMENT FACTORS.

PREFABRICATED WOOD I-JOISTS SHALL BE MANUFACTURED BY TRUSJOIST (HEYERHAEUSER) OR APPROVED SUBSTITUTE. THE SUPPLIER SHALL PROVIDE ALL REQUIRED HANGERS, WEB STIFFENERS, SQUASH BLOCKS, BEVELED BEARING PLATES, AND OTHER SPECIAL HARDWARE. THE SUPPLIER SHALL SUBMIT ERECTION DRAWINGS TO THE ENGINEER PRIOR TO FABRICATION. ALL PREFABRICATED WOOD I-JOISTS SHALL BE INSTALLED AND BRACED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

PLYWOOD/OSB SHALL BE APA RATED SHEATHING EXPOSURE I, GROUP 1, MIN. 4 PLY, MIN. SPAN RATING OF 48/24. USE 3/4" NOMI THICKNESS FOR FLOORS, 1/2" FOR ROOFS, AND 7/16" FOR WALLS. FOR FLOORS, USE TONGUE-AND-GROOVE PLYWOOD GLUED AND SCREW-FASTENED. FOR ROOFS, USE PLYWOOD CLIPS AT ALL UNSUPPORTED BUTT JOINTS.

WOOD EXPOSED TO THE ELEMENTS, WOOD IN CONTACT WITH CONCRETE OR MASONRY, AND WOOD DESIGNATED "TREATED" SHALL BE #2 GRADE SOUTHERN PINE OR BETTER & PRESURE IMPREGATED WITH ALKALINE COPPER QUATERNARY (ACQ) IN ACCORDANCE WITH AMERICAN WOOD PRESERVERS ASSOCIATION (AWPA) STANDARD C2, WITH A MIN. RETENTION OF 0.40 LBS. PER CUBIC FOOT OF WOOD. MIN. DEPTH OF PENETRATION SHALL BE 2.5" OR 85% OF THE SAKPMOOD.

## WOOD FRAMING

ALL FRAMING SHALL BE CAPABLE OF CARRYING ALL LOADS AS SPECIFIED BY THE CODE (SECTION R301) & TRANSMITTING THE RESULTING LOADS TO THE SUPPORT STRUCTURE PER SECTIONS R501.2, R601.2, & R601.2.

ALL INTERIOR NON-LOAD BEARING WALLS SHALL BE 2X4 STUDS AT 24"oc (MIN) WITH A SINGLE TOP PLATE.

ALL EXTERIOR AND INTERIOR LOAD BEARING WALLS SHALL BE STUDS AT 24"oc (U.N.O.) AND SHEATHED WITH 7/16" OSB (EXTERIOR) AND 1/2" GYPSUM SHEATHING (INTERIOR). BLOCKING OF HORIZONTAL PANEL EDGES IS NOT REQUIRED EXCEPT AT SHEAR WALLS OR BRACED WALL SEGMENTS. NAIL IN ACCORDANCE WITH THE PARTIAL SHEATHING FASTENING SCHEDULE.

ALL STUDS AND TOP PLATES ARE NOT TO BE DRILLED IN EXCESS OF CODE. (SECTIONS R602.6 AND R602.7)

ALL POSTS AND MULTIPLE STUDS SHALL BE RUN CONTINUOUSLY TO SOLID BRIDGING ON FOUNDATION WALL OR BEAMS, PROVIDE SOLID BLOCKING AT FLOORS.

STUDS & FLOOR FRAMING/JOISTS OR FLOOR TRUSSES) SHALL ALIGN AT CANTILEVERS, ABOVE AND BELOW THE FLOOR FRAMING. COLUMNS SHALL BE ADEQUATELY ANCHORED TO PREVENT INTERNAL DISPLACEMENT.

WOOD CONNECTIONS SHALL BE IN ACCORDANCE WITH PARTIAL FASTENING SCHEDULE. PROVIDE BRIDGING AT EACH END OF THE JOIST, AND ONE ROW OF SOLID BRIDGING BELOW ALL INTERIOR BEARING PARTITIONS.

FASTENERS: JOIST HANGERS, HURRICANE ANCHORS, POST BASES AND OTHER FRAMING ANCHORS ARE TO BE AS MANUFACTURED BY SIMPSON STRONG-TIE, U.S.P., OR EQUAL, AND ARE TO BE USED IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN SPECIFICATIONS. ALL FASTENERS TO BE 1/4 GA. MIN UNLESS NOTED OTHERWISE. PROVIDE GALV. FINISH UNLESS NOTED OTHERWISE. JOIST HANGERS SHALL BE MIN. 1/4 GA. WITH SIZE AND PROFILE TO SUIT APPLICATION (U.N.O.). PROVIDE JOIST HANGERS FOR ALL FLUSH FRAMED JOISTS. ALL FASTENERS IN CONTACT WITH PRESURE TREATED WOOD SHALL BE Z-MAX COATED, U.N.O.

THE NUMBER OF WALL STUDS AT BEARING POINTS OF 2X MEMBER BEAMS SHALL EXCEED THE NUMBER OF MEMBERS IN THE BEAM BY ONE. THE CENTERLINE OF THE BEAM SHALL BE THE CENTERLINE OF THE SUPPORTING WALL STUDS. (UNLESS NOTED OTHERWISE ON PLAN) ALL ENGINEERED LUMBER BEAMS SHALL HAVE 3 STUDS (MIN. & EXCEED WIDTH OF BEAM). CONTINUE THESE STUDS TO THE PARTIAL FOUNDATION WITH INTERMEDIATE SUPPORTS THROUGH FLOOR, BETWEEN LOWER WALL TOP PLATE & UPPER WALL BOTTOM PLATE.

ALL EXTERIOR POSTS TO BE TREATED 6% (U.N.O.). NOTCH TOP OF POST FOR BEAM BRG. (3" MAX.) AND THRU BOLT BEAM TO POST WITH (2) 1/2" DIA. GALV. BOLTS. ALTERNATE: PROVIDE COLUMN CAP CONNECTION WITH #4C SERIES BY SIMPSON STRONG-TIE OR EQ. PROVIDE SOLID BLOCKING BELOW ALL COLUMNS, TO TRANSFER LOAD DIRECTLY TO FRAMING/PARTIAL FOUNDATION BELOW.

PROVIDE DOUBLE JOIST UNDER ALL PARTITIONS PARALLEL TO JOIST SPAN AND AROUND ALL FLOOR AND ROOF OPENINGS. SPACE 4 BLOCK IF PARTITIONS ABOVE IS A PLUMBING WALL. PROVIDE SOLID BLOCKING AT 12"oc BETWEEN JOISTS UNDER PARTITIONS ABOVE) WHICH ARE PARALLEL TO THE JOISTS BUT NOT DIRECTLY OVER THE JOISTS. BLOCKING SHALL BE MIN 2" IN THICKNESS & SHALL MATCH THE DEPTH OF THE JOISTS.

NO STRUCTURAL MEMBER SHALL BE OMITTED, NOTCHED, CUT, BLOCKED OUT OR RELOCATED WITHOUT PRIOR APPROVAL BY THE DESIGNER OR STRUCTURAL ENGINEER. DO NOT ALTER SIZES OF MEMBERS NOTED WITHOUT APPROVAL OF BOTH.

CUTTING OF WOOD BEAMS, JOISTS AND RAFTERS SHALL BE LIMITED TO CUTS AND BORED HOLES NOT DEEPER THAN ONE-SIXTH THE MEMBER DEPTH AND SHALL NOT BE LOCATED WITHIN THE MIDDLE THIRD OF THE SPAN. NOTCHES LOCATED CLOSER TO SUPPORTS THAN THREE TIMES THE MEMBER DEPTH SHALL NOT EXCEED ONE-FIFTH THE DEPTH. HOLES BORED OR CUT INTO JOISTS SHALL BE MIN. 2" CLEAR FROM THE TOP OR BOTTOM OF THE JOIST AND THE HOLE DIAMETER SHALL NOT EXCEED ONE-THIRD OF THE JOIST DEPTH.

FOR DIMENSIONAL LUMBER FRAMING, THERE SHALL NOT BE LESS THAN ONE LINE OF BRIDGING IN EVERY EIGHT FEET OF SPAN IN FLOOR, ATTIC AND ROOF FRAMING. THE BRIDGING SHALL CONSIST OF NOT LESS THAN ONE BY THREE INCH LUMBER DOUBLE NAILED AT EACH END OR OF EQUIVALENT METAL BRACING OR EQUAL RIGIDITY. MIDSPAN BRIDGING IS NOT REQUIRED FOR FLOOR, ATTIC OR ROOF FRAMING WHERE JOIST DEPTH DOES NOT EXCEED TWELVE INCHES NOMINAL. BLOCK ALL STUD WALLS AT MAXIMUM INTERVALS OF EIGHT FEET WITH A MINIMUM OF TWO-BY SOLID MATERIAL WITH TIGHT JOISTS.

ALL JOISTS AND GIRDERS MUST HAVE A MINIMUM BEARING OF 1/2" (WOOD OR STEEL) AND 3" (MASONRY OR CONCRETE) AND 3" (LAPPED JOISTS)

PROVIDE DRAFTSTOPPING AND FIREBLOCKING IN ACCORDANCE WITH SECTIONS R302.12 AND R302.11 (RESPECTIVELY)

ALL CEILING JOISTS SHOULD ATTACHED TO RAFTERS WITH (5) 10d NAILS

ALL MULTI-PLY BEAMS SHALL BE NAILED WITH 3 ROWS OF 10d NAILS AT 8"oc STAGGERED OR BOLTED WITH 1/2" DIA. BOLTS AT 16"oc STAGGERED (U.N.O.).

BALLOON FRAME ALL END WALLS WITH CATHEDRAL CEILING (U.N.O.).

FASTEN GABLE-END WALL STUDS TO CEILING DIAPHRAM BY FASTENING NAILER TO EACH STUD AND BY FASTENING CEILING TO NAILER WITH 8d NAILS AT 6"oc

WHERE DECKS FASTEN TO HOUSE FRAMING, PROVIDE CONTINUOUS TREATED LESTER THRU-BOLTED TO FLOOR STRUCTURE WITH (2) 1/2" DIA. BOLTS AT 16"oc PROVIDE HOT-DIPPED GALV. 1/2" HANGER TO LEDGER.

ALL FLUSH FRAMED ENGINEERED LUMBER BEAM CONNECTIONS TO BE FASTENED WITH BEAM HANGERS AS DESIGNED AND PROVIDED BY ENGINEERED LUMBER MANUFACTURER (U.N.O.).

ROOF AND FLOOR FRAMING LAYOUTS ARE PROVIDED TO ILLUSTRATE CONDITIONS OF CONSTRUCTION AND DO NOT NECESSARILY INDICATE SPECIFIC QUANTITIES OF MATERIALS OR COMPONENTS REQUIRED FOR CONSTRUCTION.

CONSTRUCTION BRACING SHALL BE PROVIDED BY THE TRADE SUB-CONTRACTOR TO MAINTAIN THE BUILDING PLUMB AND TRUE. THIS BRACING SHALL REMAIN UNTIL THE SPECIFIED SHEARWALLS ARE TOTALLY INSTALLED.

FRAME CHIMNEYS: FRAME CHIMNEYS SHALL BE CONSTRUCTED OF MINIMUM #2 SPF STUDS, MAXIMUM 16"oc USE 2 X 4 IF CHIMNEY EXTENDS LESS THAN 6' ABOVE ROOF, OTHERWISE USE 2 X 6. SHEATH WITH 1/2" APA RATED SHEATHING CONTINUOUS ACROSS PLATES AND JOISTS, GLUE, AND NAIL WITH 8d NAILS @ 6"oc SECURE TO ROOF. STUDS MUST BE CONTINUOUS ACROSS ROOF INTERSECTION.

PROVIDE DEFORMED SHANK NAILS AS REQD. BY U.L. RATINGS.

## WOOD TRUSSES

TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THESE SPECIFICATIONS AND WHERE ANY APPLICABLE DESIGN FEATURE IS NOT SPECIFIED HEREIN, DESIGN SHALL BE IN ACCORDANCE WITH APPLICABLE PROVISIONS OF LATEST EDITION OF NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION (NDS) AMERICAN FOREST AND PAPER ASSOCIATION (AFPA), AND DESIGN SPECIFICATIONS FOR METAL PLATE CONNECTED WOOD TRUSSES (ANSI/TP1 1), TRUSS PLATE INSTITUTE (TP1), AND CODES OF JURISDICTION. FABRICATE, SUPPLY AND ERECT WOOD TRUSSES AS SHOWN ON THE DRAWINGS, AND AS SPECIFIED. WORK SHALL INCLUDE ALL ANCHORAGE, BLOCKING, CURBING, MISCELLANEOUS FRAMING AND BRACING.

LUMBER USED FOR TRUSS MEMBERS SHALL BE IDENTIFIED BY GRADE MARK OF A LUMBER INSPECTION AGENCY, AND SHALL BE AS SHOWN ON DESIGN DRAWINGS. TRUSSES SHALL BE HANDLED DURING FABRICATION, DELIVERY AND AT JOBSITE SO AS NOT TO BE SUBJECTED TO EXCESSIVE BENDING. TRUSSES SHALL BE UNLOADED ON SMOOTH GROUND TO AVOID LATERAL STRAIN. TRUSSES SHALL BE PROTECTED FROM DAMAGE THAT MIGHT RESULT FROM ON-SITE ACTIVITIES AND ENVIRONMENTAL CONDITIONS. PREVENT TOPPLING WHEN BANDING IS REMOVED.

HANDLE DURING INSTALLATION IN ACCORDANCE WITH HANDLING, INSTALLING AND BRACING WOOD TRUSSES (HIB-10), TP1, AND ANSI/TP1 1-1995. INSTALLATION SHALL BE CONSISTENT WITH GOOD WORKMANSHIP AND GOOD BUILDING PRACTICES. TRUSSES SHALL BE SET AND SECURED LEVEL AND PLUMB, AND IN CORRECT LOCATION. TRUSSES SHALL BE HELD IN CORRECT ALIGNMENT UNTIL SPECIFIED PERMANENT BRACING IS INSTALLED. CUTTING AND ALTERING OF TRUSSES IS NOT PERMITTED. CONCENTRATED LOADS (FULL BUNDLES OF DECKING) SHALL NOT BE PLACED ATOP TRUSSES UNTIL ALL SPECIFIED BRACING HAS BEEN INSTALLED AND DECKING IS PERMANENTLY NAILED IN PLACE. ERECTION BRACING IS ALWAYS REQUIRED. THE TRADE SUB-CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND FURNISHING THE MATERIALS USED FOR INSTALLATION AND PERMANENT BRACING.

STRUCTURAL ENGINEER OF RECORD SHALL APPROVE SHOP DRAWINGS PRIOR TO SUBMITTAL TO BUILDING OFFICIAL. BUILDING OFFICIAL SHALL APPROVE SHOP DRAWING PRIOR TO INSTALLATION. TRUSSES SHALL BE FABRICATED FROM APPROVED SHOP DRAWINGS.

MANUFACTURER SHALL SUBMIT 3 COPIES OF TRUSS DESIGN DRAWINGS BEARING SEAL OF PROFESSIONAL ENGINEER FOR APPROVAL PRIOR TO ERECTION AND ENGINEERING FRAMING PLANS FOR ALL FLAT CHORD TRUSSES. ALL TRUSS SHOP DRAWINGS MUST BE REVIEWED AND APPROVED IN WRITING, BY GENERAL CONTRACTOR, PRIOR TO SUBMITTAL OF SHOP DRAWINGS TO STRUCTURAL ENGINEER AND MUST INCLUDE THE FOLLOWING:

- STAMP & SIGNATURE OF ENGINEER, WHO IS REGISTERED IN THE STATE WHERE THE JOB IS TO BE CONSTRUCTED, RESPONSIBLE FOR PREPARATION OF ALL TRUSS DESIGN AND LAYOUT DRAWING.
- ALLOWABLE LOADS IN LBS/EFECTIVE NAIL OR PSI FOR LUMBER & PLATES USED AS ALLOWED BY ICBO, CURRENT ICBO REPORT NUMBER & BY SOUTHERN BUILDING CODE CONGRESS INTERNATIONAL.
- STRESS REDUCTION FACTORS USED FOR PLATES.
- TOP AND BOTTOM CHORD DESIGN LOADS IN PLF.
- SIZE, GAUGE, AND EXACT LOCATION BY DIMENSION OF PLATES.
- LUMBER SPECIES AND GRADES USED.
- NAME & TRADEMARK OF PLATE MANUFACTURER, TRUSS FABRICATOR & PROJECT NAME/LOCATION
- CONCENTRATED LOAD REQUIREMENTS HAVE BEEN DESIGNED FOR AND SHOWN ON DOCUMENTS.
- TRUSS CONNECTION HARDWARE REQUIREMENTS.

ALL TRUSSES MUST BE DESIGNED FOR UPLIFT LOADS. UPLIFT VALUES @ EACH TRUSS BEARING POINT MUST BE SHOWN ON TRUSS ENGINEERING SHEET.

ALL ROOF TRUSSES SHALL BE ATTACHED TO PERPENDICULAR NON-LOAD BEARING WALLS WITH TRUSS CLIPS. CEILING GWB SHALL BE ATTACHED TO BLOCKING ON THE WALL AND NOT TO THE TRUSS FOR A DISTANCE OF 18" FROM THE WALL.

ALL FLOOR TRUSSES ON THE LOWEST FLOOR W/ TRUSSES SHALL BE ATTACHED TO PREPENDICULAR NON-LOAD BEARING WALLS WITH TRUSS CLIPS. CEILING GWB SHALL BE ATTACHED TO BLOCKING ON THE WALL AND NOT TO THE TRUSS FOR A DISTANCE OF 18" FROM THE WALL.

LIVE LOAD DEFLECTION SHALL NOT EXCEED 1/8" OR L/480 FOR FLOOR TRUSSES AND 1/8" OR L/360 FOR ROOF TRUSSES.

THE MANUFACTURER SHALL SUPPLY ALL REQUIRED HANGERS, HOLD-DOWN CLIPS, AND OTHER SPECIAL HARDWARE.

## PARTIAL FOUNDATION

PRIOR TO THE START OF ANY CONSTRUCTION, ALL VEGETATION, TOPSOIL, ORGANIC SOILS, SOILS MIXED WITH EXCESSIVE AMOUNTS OF ROOTS, STUMPS, ASPHALT OR OTHER DELETEDRIUS MATERIALS SUCH AS BURIED DRINKING UTILITY LINES AND BACKFILL SHALL BE REMOVED FROM ALL BUILDING AND PAVEMENT AREAS INCLUDING AT LEAST 5 FT. OFFSETS OUTSIDE ALL BUILDING AND PAVEMENT LINES. SOFT, VERY WET AND LOOSE SOIL SHALL ALSO BE REMOVED FROM BUILDING AREAS. THE CLEARED AREAS SHALL ALSO BE PROOF ROLLED PRIOR TO THE PLACEMENT OF FILL. IF PUMPING OR RUTTING IS OBSERVED, THE SOFT OR WET MATERIAL SHALL BE REMOVED AND REPLACED WITH SUITABLE FILL. ANY POTENTIALLY EXPANSIVE CLAY (CL-CH) SOILS BELOW FOOTINGS AND FOR AT LEAST 2 FEET BELOW SLABS AND PAVEMENTS SHALL BE REMOVED AND REPLACED WITH SUITABLE FILL MATERIALS.

TRADE SUB-CONTRACTOR IS TO PROVIDE A DE-WATERING SYSTEM (IF REQUIRED) TO PREVENT SOFTENING OF SUBGRADE, FACILITATE CONTROL OF GROUND WATER AND ALLOW CONSTRUCTION TO PROCEED IN DRY CONDITIONS. NO EXCAVATION SHALL EXTEND CLOSER THAN 2 FT. TO GROUND-WATER LEVEL. IF THE SOIL AT THE SUBGRADE BECOMES WET, THEN CONSTRUCTION SHOULD STOP AND DE-WATERING MUST BE PERFORMED TO LOWER THE WATER LEVEL. RESUME EXCAVATION ONLY AFTER THE GEOTECHNICAL ENGINEER HAS EXAMINED THE CONDITION AND HAS APPROVED THE RESTART OF ANY EXCAVATION WORKS.

SOILS, FOOTINGS, PARTIAL FOUNDATION WALLS AND SLABS SHALL NOT BE PLACED ON OR IN MARINE CLAY, PEAT OR OTHER ORGANIC MATERIALS. PLACE FOOTINGS ON FIRM, DRY, NON-FROZEN SUBGRADE. REMOVE SOFT SOILS ENCOUNTERED DURING EXCAVATION. BACKFILL EXCAVATIONS AND AREAS REQUIRING STRUCTURAL FILL WITH CLEAN, MOIST, GRANULAR SELECT BORROW (TYPE "G", GRADE V OR BETTER IN ACCORDANCE WITH DELDOT STD. SPECS). ALL BACKFILL SHALL BE PLACED IN LIFTS NOT TO EXCEED 8-INCHES IN LOOSE THICKNESS. PROPER EQUIPMENT SHALL BE SELECTED AND USED FOR COMPACTION ACCORDING TO THE TYPE A BACKFILL MATERIAL USED. COMPACTION RATIO SHALL BE 95% MINIMUM.

WHERE REQUIRED, STEP FOOTINGS IN A RATIO OF 2 HORIZONTAL TO 1 VERTICAL.

FOOTING EXCAVATION SHALL BE INSPECTED BY THE BUILDING OFFICIAL PRIOR TO POURING CONCRETE. NO EXCAVATION SHALL BE CLOSER THAN AT A SLOPE OF 2 HORIZONTAL TO 1 VERTICAL TO A FOOTING.

DESIGN IS BASED ON WATER TABLE 2'-0"(MIN) BELOW BOTTOM OF ALL CONCRETE SLABS & FOOTINGS.

FOOTINGS ADJACENT TO SLOPES GREATER THAN 33% MUST COMPLY WITH SECTIONS R403.1.7.1 - R 403.1.7.4

FOOTINGS SHALL BE PLACED ON THE SAME DAY THAT THE EXCAVATIONS ARE MADE TO THE FINAL GRADE.

THE TOP OF ALL EXTERIOR FOOTINGS SHALL BE PLACED A MINIMUM OF 2'-0" BELOW FINISH GRADE (BEARING BELOW FROST LINE DEPTH). THE TOP OF INTERIOR FOOTINGS SHALL BE PLACED A MINIMUM OF 0'-8" BELOW FINISH FLOOR.

A STRUCTURAL SLAB SHALL BE USED WHEN UNCOMPACTED FILL EXCEEDS 8".

ALL FRAMING SHALL BE A MINIMUM OF 8" ABOVE GRADE AND ALL WOOD SIDING SHALL BE 6" ABOVE GRADE.

ANCHOR BOLTS SHALL BE A MAXIMUM OF 12" FROM PLATE ENDS, SPACED AT 6'-0" O.C. (MAX.), AND HAVE A MINIMUM OF (2) PER PLATE SECTION. IN LIEU OF ANCHOR BOLTS, THE TRADE SUB-CONTRACTOR MAY USE ANCHOR STRAPS ,INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.

PROVIDE 4" MIN. DRAIN TILE AT BOTTOM OF ALL EXTERIOR FOOTINGS AT BASEMENT WALLS. TILE TO BE SET ON 2" GRAVEL BED WITH 6"-8" GRAVEL COVER AND SHOULD DRAIN TO DAYLIGHT OR SUMP PUMP. PROVIDE 2" DRAIN TILE AT INTERIOR OF FOOTING AND BLEEDER PIPES THROUGH FOOTING AS REQUIRED BY GEOTECHNICAL ENGINEER TO DRAIN WATER UNDER SLAB. IN-LIEU OF DRAIN TILE, PROPRIETARY DRAINAGE SYSTEMS MAY BE USED (EX, J-DRAIN). INSTALL PROPRIETARY DRAINAGE SYSTEMS PER MANUFACTURERS RECOMMENDATIONS.

PROVIDE FREE DRAINING, GRANULAR BACKFILL (SOIL CLASS CL OR BETTER) WITH A MAXIMUM EQUIVALENT FLUID PRESSURE = 60 PSF PER FOOT OF DEPTH AGAINST BASEMENT AND RETAINING WALLS. IF BACKFILL PRESSURE EXCEEDS 60 PSF, THEN WALL MUST BE DESIGNED FOR ACTUAL PRESSURES BY STRUCTURAL ENGINEER.

PARTIAL FOUNDATION DRAINS SHALL BE INSTALLED BY CONCRETE SUBTRADE SUB-CONTRACTOR, BUT LOCATED AT BUILDER'S DISCRETION ACCORDING TO LOCAL SITE CONDITIONS.

DRAIN DISCHARGE TO CONFORM TO APPROVED SITE PLAN. SUMP CROCK TO BE INSTALLED BY CONCRETE SUBTRADE SUB-CONTRACTOR, LOCATED BY BUILDER. NO AREAWAY DRAINS OR CONDENSATE DRAINS SHALL BE TIED INTO THE SANITARY SEWER SYSTEM.

1/2" WATERPROOF FARGING IS TO BE APPLIED TO MASONRY PARTIAL FOUNDATIONS, BITUMINOUS WATERPROOFING WITH POURED IN PLACE CONCRETE.

POURED IN PLACE CONCRETE PARTIAL FOUNDATION WALLS SHALL BE BRICK-FORM FACED.

THE SPACE BETWEEN THE BOTTOM OF THE FLOOR JOISTS AND THE EARTH UNDER ANY BUILDING SHALL BE PROVIDED WITH A MINIMUM NET AREA OF VENTILATION OPENINGS OF NOT LESS THAN ONE SQUARE FOOT FOR EACH 150 SQUARE FEET OF CRAWL SPACE AREA. ONE SUCH VENTILATING OPENING SHALL BE WITHIN 3' OF EACH CORNER OF THE BUILDING.

## CAST-IN-PLACE CONCRETE

ALL CONCRETE SHALL BE MADE IN ACCORDANCE WITH DESIGN MIXES WHICH ARE TO BE APPROVED BY THE ARCHITECT OR ENGINEER PRIOR TO CASTING ANY CONCRETE. MIXES SHALL BE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE ACI 318. ALL PLAIN CONCRETE TO CONFORM TO ACI 318.1 AND ACI 332 GUIDE TO RESIDENTIAL CAST IN PLACE CONCRETE CONSTRUCTION MIXES SHALL HAVE A MINIMUM CEMENT CONTENT OF 520 LB. PER CUBIC YD., MAXIMUM WATER/CEMENT RATIO OF 0.53 FOR INTERIOR CONCRETE PROTECTED FROM FREEZING AND 0.46 FOR ALL EXTERIOR EXPOSED CONCRETE.

LOCATION	COMP. STRENGTH	SLUMP
BASEMENT WALLS & FDN NOT EXPOSED TO WEATHER	3,000 psi (1)	4" +/- 1"
BASEMENT SLABS AND INTERIOR SLABS ON GRADE	3,000 psi (1)	4" +/- 1"
BASEMENT WALLS, FDNs, EXTERIOR WALLS & OTHER CONCRETE EXPOSED TO WEATHER	3,000 psi (2)	4" +/- 1"
DRIVEWAYS, CURBS, WALKS, PATIOS, STEPS AND UNHEATED GARAGE FLOORS EXPOSED TO WEATHER	3,500 psi (2)	4" +/- 1"

NOTE: 1. EXTERIOR, WEATHER-EXPOSED CONCRETE & CONCRETE SUBJECTED TO FREEZE AND THAW CONDITIONS DURING CONSTRUCTION SHALL BE AIR-ENTRAINED, AS SHOWN IN TABLE A602-2. SEVERE

CONCRETE MATERIALS SHALL CONFORM TO ASTM C150, TYPE I FOR PORTLAND CEMENT AND ASTM C33 FOR AGGREGATES. WATER-REDUCING ADMIXTURES SHALL CONFORM TO ASTM C494, TYPE A (FREE OF CALCIUM CHLORIDES), AIR-ENTRAINING ADMIXTURES SHALL CONFORM TO ASTM C266, AND HIGH-RANGE WATER REDUCERS (SUPER-PLASTICIZERS) SHALL CONFORM TO ASTM C494, TYPE F. FLY ASH SHALL COMPLY WITH ASTM C681 FOR CLASS F AND SHALL NOT BE PROPORTIONED IN MIXES WITH MORE THAN 20% CEMENT BY WEIGHT. LIQUID-HEXAMERANE CURING COMPOUNDS SHALL BE HIGH-SOLIDS, WATER AND ACRYLIC-BASED, COMPLYING WITH ASTM C304 AS TESTED UNDER ASTM C56. SLUMP OF THE CONCRETE SHALL BE A MINIMUM OF 4-INCHES AND A MAXIMUM OF 6-INCHES, SEE THE PROJECT SPECIFICATIONS. THE COMPRESSIVE STRENGTH IS BASED 28-DAY COMPRESSIVE STRENGTH.

REBAR SHALL BE HIGH STRENGTH NEM BILLET STEEL CONFORMING TO ASTM A-615, GRADE 60 (60,000 psi) - DEFORMED WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-15

**MISCELLANEOUS**

THE TRADE SUB-CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL SAFETY REGULATIONS, PROGRAMS AND PRECAUTIONS RELATED TO ALL WORK ON THIS PROJECT AND FOR THE PROTECTION OF PERSONS AND PROPERTY EITHER ON OR ADJACENT TO THE PROJECT AND SHALL PROTECT SAME AGAINST INJURY, DAMAGE OR LOSS.

THE TRADE SUB-CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED ON THE STRUCTURE. SUCH LOADS SHALL NOT EXCEED THE CAPACITY OF THE STRUCTURE AT ANY TIME.

THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION, AND ANY TEMPORARY BRACING OR SUPPORT REQUIRED TO ACCOMMODATE THE TRADE SUB-CONTRACTOR'S MEANS AND METHODS ARE THE RESPONSIBILITY OF THE TRADE SUB-CONTRACTOR.

THE TRADE SUB-CONTRACTOR IS TO VERIFY ALL OPENING SIZES AND LOCATIONS WITH THE REQUIREMENTS OF OTHER TRADES PRIOR TO FABRICATION AND ERECTION.

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS, AND THE TRADE SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR SEEING THAT THE WORK OF ALL TRADES IS COORDINATED WITH STRUCTURAL WORK.

EARTH RETAINING WALLS, OTHER THAN CANTILEVERED TYPE WALLS, SHALL BE ADEQUATELY BRACED UNTIL CONCRETE FOR SUPPORTING SLABS HAS BEEN PLACED AND ALL CONCRETE HAS CURED.

THE TRADE SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING, FURNISHING, ERECTING AND REMOVING ANY TEMPORARY SHORING AND BRACING DURING CONSTRUCTION.

THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED AT THE PROPER TIME WHEN ALL ITEMS ARE READY FOR OBSERVATION. SUFFICIENT NOTICE SHALL BE GIVEN BY THE TRADE SUB-CONTRACTOR TO ALLOW FOR SCHEDULING OF OBSERVATIONS.

SAFETY REGULATIONS SHALL BE STRICTLY FOLLOWED BY THE TRADE SUB-CONTRACTOR OR SUBCONTRACTOR DURING ALL TIMES OF WORK ON THIS PROJECT. THE ARCHITECT OR ENGINEER SHALL NOT HAVE CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR ACTS OF OMISSIONS OF THE TRADE SUB-CONTRACTOR, SUBCONTRACTORS, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

ALL SPECIALTY BOLTS, INCLUDING EXPANSION TYPE AND EPOXY TYPE ANCHORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS.

THE TRADE SUB-CONTRACTOR SHALL PROTECT FROM DAMAGES EXISTING BUILDING(S), OWNER EQUIPMENT, ROADS, WALKS AND UTILITIES. THE TRADE SUB-CONTRACTOR SHALL MAINTAIN THESE DURING THE COURSE OF THE WORK, AND SHALL REPAIR ALL DAMAGES AT NO ADDITIONAL EXPENSE TO THE OWNER.

IN AREAS WHERE THE DRAWINGS DO NOT ADDRESS METHODOLOGY, THE TRADE SUB-CONTRACTOR SHALL BE REQUIRED TO PERFORM IN STRICT COMPLIANCE WITH MANUFACTURER'S SPECIFICATIONS AND/OR RECOMMENDATIONS.

ON-SITE VERIFICATION OF ALL DIMENSIONS AND CONDITIONS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS. NOTED DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE.

THE GENERAL NOTES AND TYPICAL DETAILS APPLY THROUGHOUT THE JOB UNLESS OTHERWISE NOTED OR SHOWN.

THE TRADE SUB-CONTRACTOR SHALL COMPARE AND COORDINATE ALL DRAWINGS. IF A DISCREPANCY EXISTS, HE SHALL PROMPTLY REPORT IT FOR PROPER ADJUSTMENT BEFORE PROCEEDING WITH THE WORK.

IN THE EVENT THAT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE DRAWINGS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS SIMILAR CONDITIONS THAT ARE SHOWN OR NOTED.

THESE PLANS ARE SUBJECT TO MODIFICATIONS AS NECESSARY TO MEET CODE REQUIREMENTS OR TO FACILITATE MECHANICAL, PLUMBING INSTALLATIONS OR TO INCORPORATE DESIGN IMPROVEMENTS.

DO NOT BUILD OVER GAS LINES OR ENCLOSE THE METER. CONSULT THE LOCAL GAS COMPANY PRIOR TO CONSTRUCTION.

CHIMNEY SHALL EXTEND AT LEAST 2 FEET HIGHER THAN ANY PORTION OF THE BUILDING WITHIN 10 FEET, BUT SHALL NOT BE LESS THAN 3 FEET ABOVE THE POINT WHERE IT PASSES THROUGH THE ROOF.

DECKS ARE NOT APPROVED FOR FUTURE HOT TUB INSTALLATION.

NO OPENING NOR ANY CHANGES IN SIZE, DIMENSION OR LOCATION SHALL BE MADE IN ANY STRUCTURAL ELEMENTS WITHOUT WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.

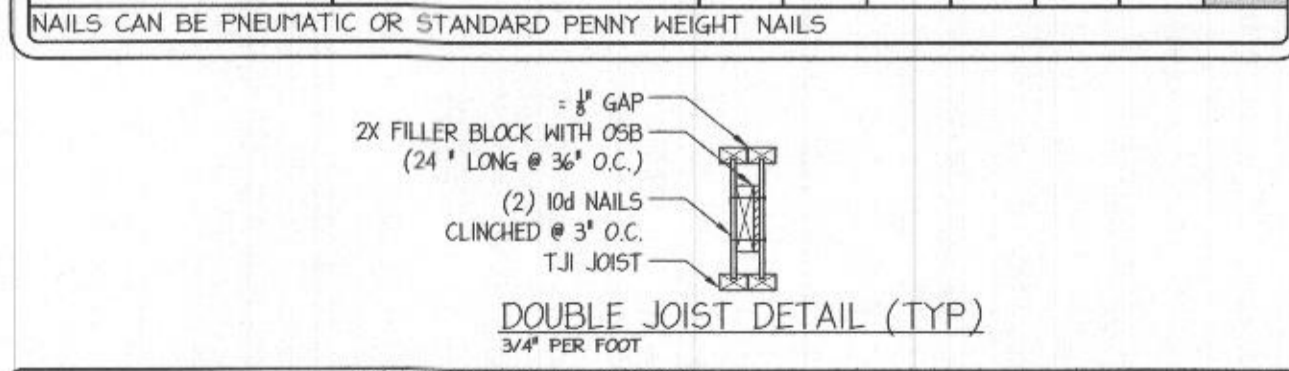
CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO ORDERING MATERIALS OR PROCEEDING WITH NEW WORK IN AREAS AFFECTED BY EXISTING CONDITIONS. STRUCTURAL ENGINEER SHALL BE INFORMED IN WRITING OF CONFLICTS BETWEEN EXISTING AND PROPOSED NEW CONSTRUCTION.

CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL DIMENSIONS SHOWN ON THE CONTRACT DOCUMENTS. INCONSISTENCIES ON THE STRUCTURAL DRAWINGS OR BETWEEN THE STRUCTURAL DRAWINGS AND ANY OTHER CONTRACT, SHOP, FABRICATION, OR OTHER DRAWINGS OR INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER PRIOR TO PROCEEDING WITH AFFECTED WORK.

THE STRUCTURAL INTEGRITY OF THE BUILDING IS DEPENDANT UPON COMPLETION ACCORDING TO PLANS AND SPECIFICATIONS. THE STRUCTURAL ENGINEER ASSUMES NO LIABILITY FOR THE STRUCTURE DURING CONSTRUCTION. THE METHOD OF CONSTRUCTION AND SEQUENCE OF OPERATIONS IS THE SOLE RESPONSIBILITY OF THE TRADE SUB-CONTRACTOR. THE TRADE SUB-CONTRACTOR SHALL SUPPLY ANY NECESSARY SHORING, BRACING, GUYS, ETC., TO PROPERLY BRACE THE STRUCTURE AGAINST WIND, DEAD AND LIVE LOADS UNTIL THE BUILDING IS COMPLETED ACCORDING TO THE PLANS AND SPECIFICATIONS.

CONTRACTOR SHALL NOT PLACE BACK FILL AGAINST BASEMENT WALLS UNTIL THE FLOOR SYSTEM IS COMPLETELY INSTALLED OR CONTRACTOR HAS PROVIDED ADEQUATE SHORING AND BRACING. ANY QUESTIONS REGARDING TEMPORARY SHORING REQUIREMENTS SHOULD BE FORWARDED TO THE STRUCTURAL ENGINEER FOR REVIEW.

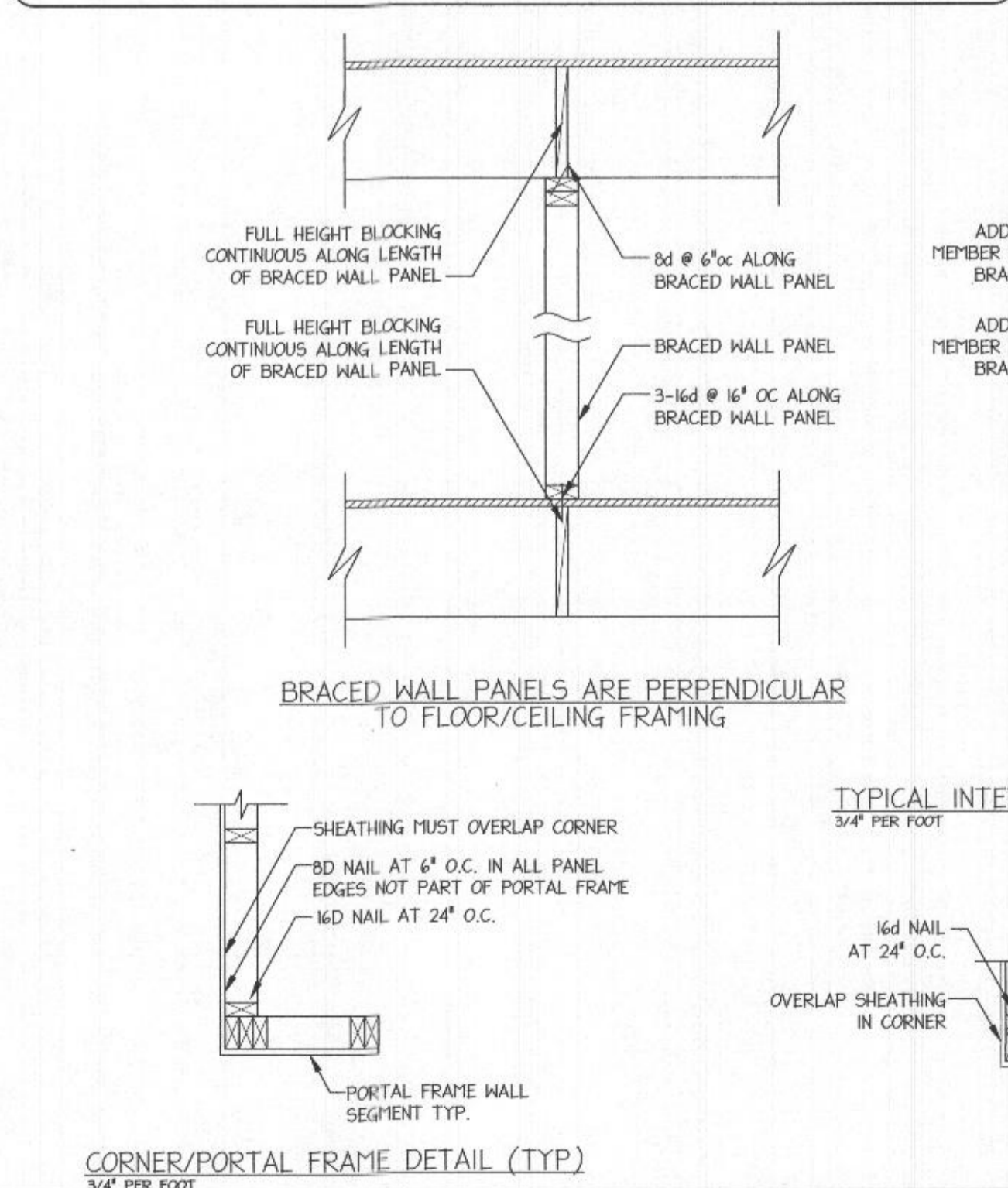
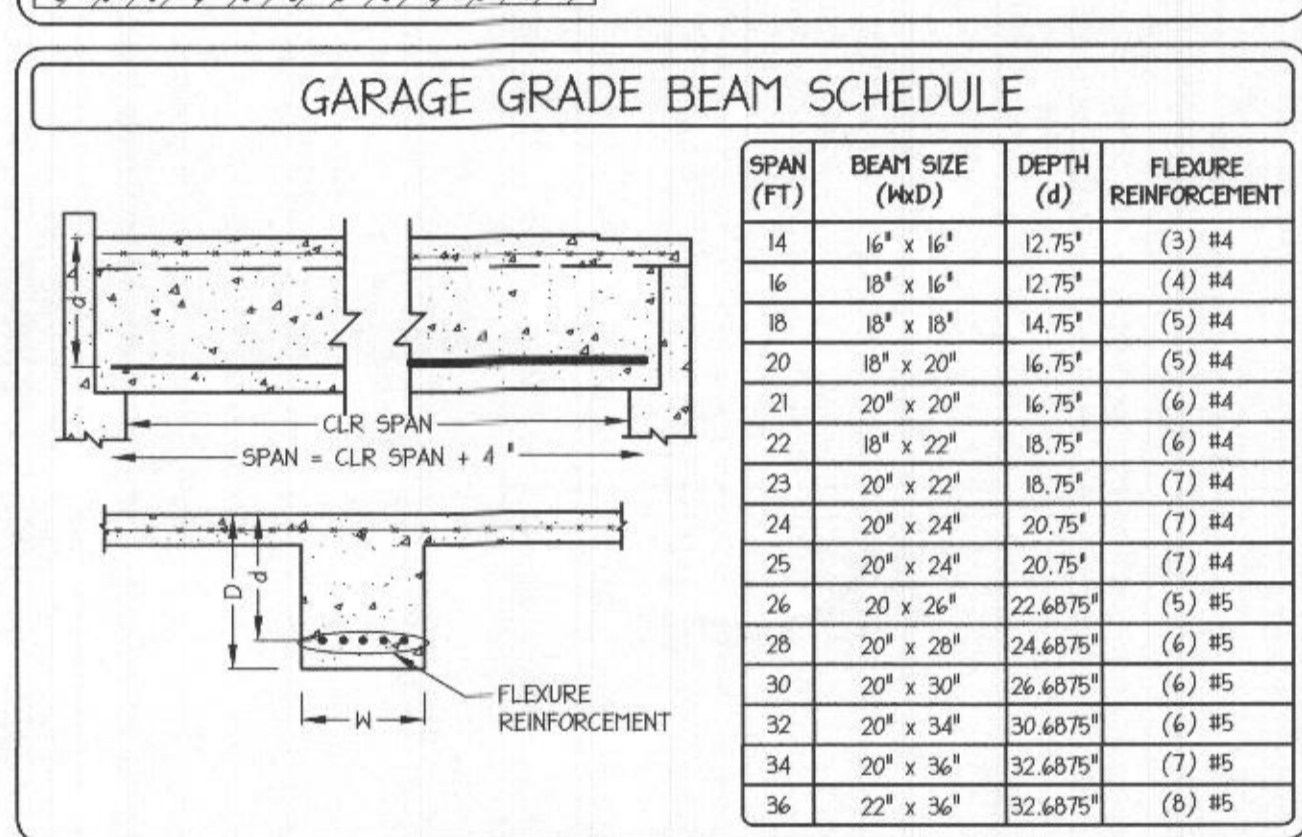
PARTIAL FASTENING SCHEDULE							
DETAIL	CONNECTION	NAIL SIZE (LENGTH x DIAMETER IN INCHES)					
		3 1/2" x 0.162"	3 1/2" x 0.148"	3" x 0.148"	3 1/2" x 0.135"	3 1/2" x 0.131"	2 1/2" x 0.131"
	BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE (TOE NAIL - EACH END)	3	3	3	3	3	3
	CEILING JOISTS TO TOP PLATE (TOE NAIL)	3	3	3	3	3	3
	CEILING JOIST, LAP OVER PARTITION (NO THRUST) (FACE NAIL)	3	4	4	4	4	4
	CEILING JOIST TO PARALLEL RAFTER	SEE IRC TABLE R602.5.1(9)					
	COLLAR TIE TO RAFTER (FACE NAIL)	3	3	3	4	4	5
	RAFTER / TRUSS TO PLATE (TOE NAIL)	3	3	3	3	4	4
	RAFTER TO RIDGE, VALLEY OR HIP RAFTER OR ROOF RAFTER (END NAIL)	3	4	4	4	5	5
	RAFTER TO RIDGE, VALLEY OR HIP RAFTER OR ROOF RAFTER (TOE NAIL)	3	4	4			
	STUD TO STUD (FACE NAIL) (NOT AT PANEL EDGE)	24" O.C.	16" O.C.	16" O.C.	16" O.C.	16" O.C.	16" O.C.
	STUD TO STUD (FACE NAIL) (AT BRACED PANEL)	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.
	STUD TO STUD (FACE NAIL) (AT CORNERS AND INTERSECTION) (FACE NAIL) (NOT AT BRACED PANEL)	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.
	STUD TO STUD (FACE NAIL) (AT CORNERS AND INTERSECTION) (FACE NAIL) (AT BRACED PANEL)	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.
	BUILT UP HEADER, TWO PIECES WITH 1/2" SPACER	12" O.C.	8" O.C.	8" O.C.	12" O.C.	8" O.C.	8" O.C.
	CONTINUOUS HEADER TO STUD (TOE NAIL)	3	4	4	4	4	4
	KING STUD TO HEADER (FACE NAIL) (EACH PLY)	2x6 2x8 2x10 2x12	2 3 3 4	2 3 3 4	2 3 3 4	2 3 3 4	2 3 3 4
	TOP PLATE TO TOP PLATE (FACE NAIL)	16" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.
	DOUBLE TOP PLATE LAP SPLICE (FACE NAIL) (4"-6" MINIMUM)	8	12	12	12	12	12
	SOLE PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (FACE NAIL) (NOT AT BRACED PANEL)	16" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.
	SOLE PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (FACE NAIL) (AT BRACED PANEL)	2 @ 16" O.C. 3 @ 16" O.C. 3 @ 16" O.C. 4 @ 16" O.C.	3 @ 16" O.C. 3 @ 16" O.C. 3 @ 16" O.C. 4 @ 16" O.C.	3 @ 16" O.C. 3 @ 16" O.C. 3 @ 16" O.C. 4 @ 16" O.C.	3 @ 16" O.C. 3 @ 16" O.C. 3 @ 16" O.C. 4 @ 16" O.C.	3 @ 16" O.C. 3 @ 16" O.C. 3 @ 16" O.C. 4 @ 16" O.C.	3 @ 16" O.C. 3 @ 16" O.C. 3 @ 16" O.C. 4 @ 16" O.C.
	TOP OR BOTTOM PLATE TO STUD (END NAIL)	3	3	3	3	4	4
	TOP OR BOTTOM PLATE TO STUD (TOE NAIL)	3	4	4	4	4	4
	DOUBLE TOP PLATE OVERLAP AT CORNERS AND INTERSECTION (FACE NAIL)	2	3	3	3	3	3
	JOIST TO TOP/SILL PLATE OR GIRDER (TOE NAIL)	3	3	3	3	3	3
	FULL HEIGHT BLOCKING CONTINUOUS ALONG LENGTH OF BRACED WALL PANEL	6" O.C.	6" O.C.	6" O.C.	6" O.C.	6" O.C.	6" O.C.
	BAND OR RIM JOIST TO JOIST (END NAIL)	3	4	4	4	4	4
	BUILT-UP BEAM AND GIRDERS, (FACE NAIL AT TOP AND BOTTOM)	24" O.C.	24" O.C.	24" O.C.	24" O.C.	24" O.C.	24" O.C.
	PLUS # AT ENDS OR SPLICES	3	3	3	3	3	3



F.I.B.	FILLER AND BACKER BLOCK SIZES			
	110	210	230 OR 360	560
DEPTH	9-3/8" OR 11-3/8"	14"	9-3/8" OR 11-3/8"	14" OR 16"
FILLER BLOCK (DETAIL 12)	2x6	2x8	2x6 + 3/8" SHEATHING	2x8 + 3/8" SHEATHING
			2x6 + 1/2" SHEATHING	2x8 + 1/2" SHEATHING
			TWO	TWO

\* IF NECESSARY, INCREASE FILLER AND BACKER BLOCK HEIGHT FOR FACE MOUNT HANGERS AND MAINTAIN 1/8" GAP AT TOP OF JOIST.

PARTIAL SHEATHING FASTENING SCHEDULE			
SHEATHING	FASTENERS	SPACING OF FASTENERS	
		EDGES	BODY OF PANEL
3/4" - 1/2" PLYWOOD	6d COMMON (2"x0.131") (FLOOR, WALL) 6d COMMON (2 1/2"x0.131") (ROOF)	6	12
3/4" - 1" PLYWOOD	6d COMMON (2 1/2"x0.131")	6	12
1/2" - 1 1/2" PLYWOOD	10d COMMON (3"x0.148") OR 6d (2 1/2"x0.131") DEFORMED	6	12
1/2" GYPSUM	1 1/2" GALV ROOFING; 1 1/2" GALV STAPLE; 1 1/4" SCREW (TYPE 5 OR W)	4	8
5/8" GYPSUM	1 3/4" GALV ROOFING; 1 5/8" GALV STAPLE; 1 5/8" SCREW (TYPE 5 OR W)	4	8



ISOLATED FOOTING SCHEDULE			
MARK (FIB)	CL, ML, MH & CH (5000psf)	EQUIVALENT FOOTINGS	
		54, SP, SH, SC, GP 4 GC (2000psf)	GH, GP (3000psf)
		SIZE (Wt x T)	SIZE (Wt x T)
F24	24" x 12"-0	24" x 12"-0	24" x 12"-0
F26	26" x 12"-0	24" x 12"-0	24" x 12"-0
F28	28" x 12"-0	24" x 12"-0	24" x 12"-0
F30	30" x 12"-0	24" x 12"-0	24" x 12"-0
F32	32" x 12"-0	24" x 12"-0	24" x 12"-0
F34	34" x 12"-0	30" x 12"-0	28" x 12"-0
F36	36" x 12"-0	32" x 12"-0	30" x 12"-0
F38	38" x 12"-0	34" x 12"-0	30" x 12"-0
F40	40" x 12"-0	36" x 12"-0	30" x 12"-0
F42	42" x 12"-3	36" x 12"-0	30" x 12"-0
F44	44" x 12"-3	38" x 12"-2	30" x 12"-2
F46	46" x 12"-3	40" x 12"-2	34" x 12"-2
F48	48" x 12"-3	42" x 12"-3	38" x 12"-2
F50	50" x 12"-3	44" x 12"-3	40" x 12"-2
F52	52" x 12"-3	46" x 12"-3	42" x 12"-3
F54	54" x 12"-3	48" x 12"-3	44" x 12"-3
F56	56" x 12"-4	48" x 12"-3	44" x 12"-3
F58	58" x 12"-4	50" x 12"-4	46" x 12"-4
F60	60" x 12"-5	52" x 12"-4	48" x 12"-4
F62	62" x 12"-5	54" x 12"-5	48" x 12"-4
F64	64" x 12"-6	56" x 12"-5	50" x 12"-5
F66	66" x 12"-6	58" x 12"-6	52" x 12"-5
F68	68" x 12"-7	60" x 12"-6	54" x 12"-6
F70	70" x 12"-7	62" x 12"-6	56" x 12"-6
F72	72" x 12"-8	64" x 12"-7	58" x 12"-7
F74	74" x 12"-9	64" x 12"-8	58" x 12"-7
F76	76" x 12"-10	66" x 12"-8	60" x 12"-8
F78	78" x 14"-10	68" x 14"-9	62" x 14"-8
F80	80" x 14"-11	70" x 14"-9	64" x 14"-8
F82	82" x 14"-11	70" x 14"-9	64" x 14"-8
F84	84" x 14"-12	72" x 14"-10	64" x 14"-9
F86	86" x 14"-12	74" x 14"-11	66" x 14"-9
F88	88" x 14"-13	76" x 14"-11	68" x 14"-10
F90	90" x 14"-13	78" x 14"-12	70" x 14"-11
F92	92" x 14"-14	80" x 14"-12	72" x 14"-11
F94	94" x 14"-15	82" x 14"-13	74" x 14"-12
F96	96" x 14"-15	82" x 14"-13	74" x 14"-12

REINFORCEMENT EQUIVALENTS			
NUMBER #4 BARS SPEC'D	NUMBER #5 BARS REQ'D	NUMBER #4 BARS SPEC'D	NUMBER #5 BARS REQ'D
2	2	3	3
3-4	3	5-6	4
7	5	8-9	6
10	7	11-12	8
13	9	14-15	10

ALTERNATE MANUFACTURER			
FLOOR JOIST AND RIM BOARD			
MANUFACTURER	FLOOR JOIST	RIM MATERIAL	
BOISE-CASCADE	1 1/2" BCI 5000	1/2" OSB RIM BOARD	
	1 1/2" BCI 5000		
LOUISIANA PACIFIC	1 1/2" LPI 20 PLUS	1/2" OSB RIM BOARD	
	1 1/2" LPI 20 PLUS		
GEORGIA PACIFIC	1 1/2" GPI 40	1/2" OSB RIM BOARD	
	1 1/2" GPI 40		
ROSEBURG	1 1/2" RFI 405	1/2" RIGIDRIM	
	1 1/2" RFI 405		
APA PRI JOISTS	1 1/2" PRI 40	1/2" OSB RIM BOARD	
	1 1/2" PRI 40		
FLOOR JOIST AND RIM BOARD			
MANUFACTURER	2.0E MICROLAM LVL	2.0E PARALAM PSL	2.0E VERSA LAM
BOISE-CASCADE	2.0E VERSA LAM	2.0E VERSA LAM	2.0E VERSA LAM
LOUISIANA PACIFIC	2.0E SSM START LVL	2.0E SSM START LVL	2.0E SSM START LVL
GEORGIA PACIFIC	2.0E GPLAM LVL	2.0E GP LAM LVL	2.0E GP LAM LVL
ROSEBURG	2.0E RIGIDLAM LVL	2.0E RIGIDLAM LVL	2.0E RIGIDLAM LVL

ARCHITECTURE  
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**STRUCTURAL ENGINEERING**  
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PROFESSIONAL CERTIFICATION  
I certify that these documents were prepared or approved by me, and that I am a duly licensed professional architect under the laws of the State of Maryland, License Number #31466, Expiration Date: 2/14/2023.

**PROPOSED RESIDENCE**

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ARCHITECT  
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BUILDER

ISSUE DATE

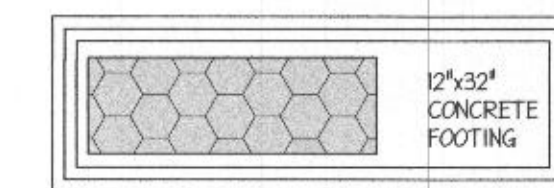
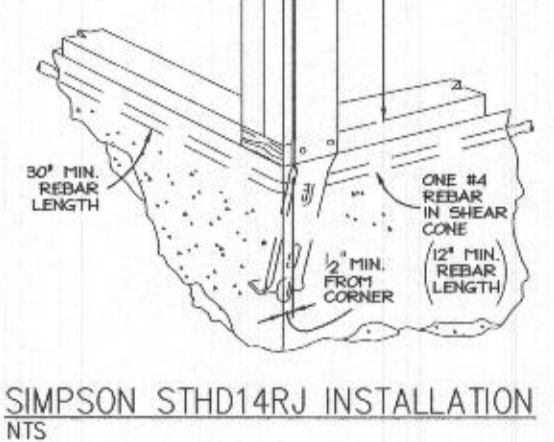
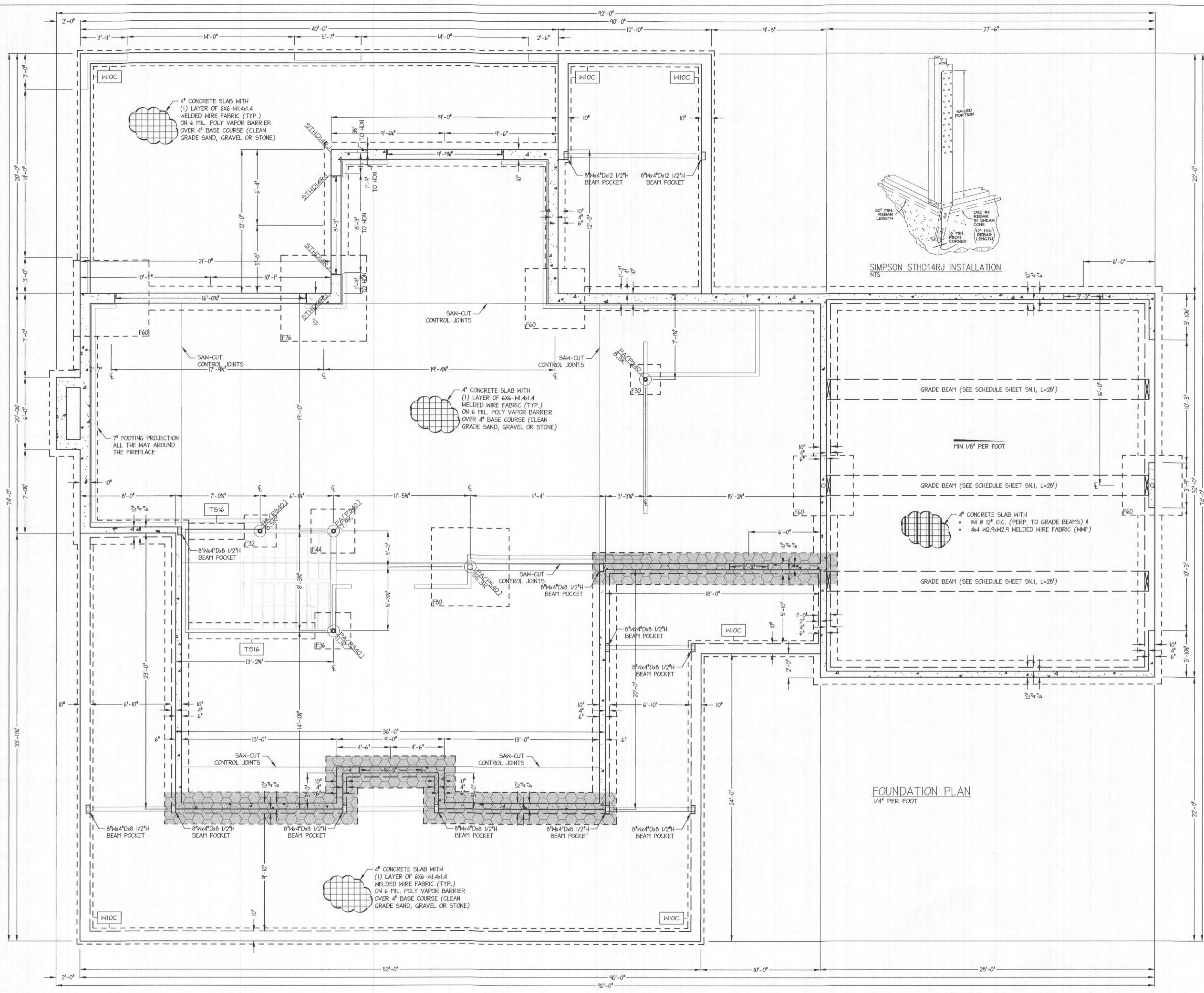
9-24-21 PERMIT SET

SCALE:

NOTES

**SN.2**

PRINT DATE:  
Friday, January 7, 2022



- NOTE:**
- ALL FOOTING SIZES ARE BASED ON ALLOWABLE SOIL BEARING CAPACITY OF 1500 psf - SEE FOUNDATION WALL STRIP FOOTING SCHEDULE AND ISOLATED FOOTING SCHEDULE FOR ALL OTHER ALLOWABLE SOIL BEARING CAPACITIES. (S.N.I.)
  - FOUNDATION WALL DESIGN IS BASED 60 PCF EQUIVALENT FLUID PRESSURE
  - ALL BASEMENTS SHALL HAVE 10" FOUNDATION WALLS REINFORCED WITH WITH #5 REBAR @ 12" O.C. (VERTICAL) AND (4) HORIZONTAL #4 REBAR AND 10"x24" PLAIN CONCRETE FOOTINGS WITH (2) #4 REBAR (LONGITUDINALLY) AND #3 @ 48" O.C. (TRANSVERSELY) U.N.O.

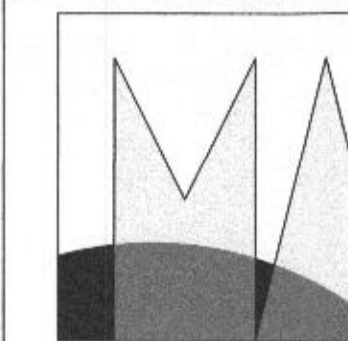
- ANCHOR BOLT / HOLD DOWN NOTES:**
- ALL CAST-IN-PLACE STRAP HOLD DOWNS LOCATED IN CORNERS SHALL BE PLACED 1/2" CLEAR FROM CORNER.
  - HOLD DOWN ANCHOR BOLTS SHALL BE PLACED 6" FROM OUTSIDE CORNER FACE FOR ALL HOLD DOWNS LOCATED IN CORNERS. U.N.O.
  - DIMENSIONS TO HOLD DOWNS LOCATED AWAY FROM CORNERS ARE TO THE CENTER OF THE ANCHOR BOLT OR CAST-IN-PLACE STRAP.

- NOTE:**
- CONCRETE CONTRACTOR SHALL VERIFY ALL ROUGH OPENINGS IN FOUNDATION WALLS PER THE WINDOW AND DOOR MANUFACTURER.
  - CONCRETE CONTRACTOR MAY USE ZIPSTRIP BY SUPERIOR PROFILES OR EQUIVALENT IN LIEU OF SAW CUT CONTROL JOINTS.
  - ALL SAW CUT CONTROL JOINT LOCATIONS ARE SCHEMATIC. FINAL LAYOUT PER BUILDER/CONCRETE CONTRACTOR.

FOUNDATION PLAN  
1/4" PER FOOT

FOOTING SCHEDULE	
<b>HALL FOOTINGS</b>	<b>SQUARE FOOTINGS</b>
NBA 8"x 12"	F24 = 24"x 12" 4
NB10B 8"x 14"	F26 = 26"x 12" 5
NB10/12C, TS16 8"x 16"	F28 = 28"x 12" 5
NB10/12D, TS18 8"x 18"	F30 = 30"x 12" 5
NB10/12E, TS20 8"x 20"	F32 = 32"x 12" 6
NB10/12F, TS22 8"x 22"	F34 = 34"x 12" 6
NB10/12G, TS24 8"x 24"	F36 = 36"x 12" 6
NB10/12H 8"x 26"	F38 = 38"x 12" 7
NB10/12I 8"x 28"	F40 = 40"x 12" 7
NB10/12J 10"x 30"	F42 = 42"x 12" 7
NB10/12K 10"x 32"	F44 = 44"x 12" 8
NB10/12L 12"x 34"	F46 = 46"x 12" 8
NB10/12M 12"x 36"	F48 = 48"x 12" 8
NB10/12N 14"x 38"	F50 = 50"x 12" 9
NB10/12O 14"x 40"	F52 = 52"x 12" 9
NB10/12P 14"x 42"	F54 = 54"x 12" 9
NB10/12Q 14"x 44"	F56 = 56"x 12" 10
NB10/12R 14"x 46"	F58 = 58"x 12" 10
NB10/12S 14"x 48"	F60 = 60"x 12" 10
NB10/12T 14"x 50"	F62 = 62"x 12" 11
NB10/12U 14"x 52"	F64 = 64"x 12" 11
NB10/12V 14"x 54"	F66 = 66"x 12" 11
NB10/12W 14"x 56"	F68 = 68"x 12" 12
NB10/12X 14"x 58"	F70 = 70"x 12" 12
NB10/12Y 14"x 60"	F72 = 72"x 12" 12
NB10/12Z 14"x 62"	F74 = 74"x 12" 13
NB10/12AA 14"x 64"	F76 = 76"x 12" 13
NB10/12AB 14"x 66"	F78 = 78"x 12" 13
NB10/12AC 14"x 68"	F80 = 80"x 12" 14
NB10/12AD 14"x 70"	F82 = 82"x 12" 14
NB10/12AE 14"x 72"	F84 = 84"x 12" 14
NB10/12AF 14"x 74"	F86 = 86"x 12" 15
NB10/12AG 14"x 76"	F88 = 88"x 12" 15
NB10/12AH 14"x 78"	F90 = 90"x 12" 15
NB10/12AI 14"x 80"	F92 = 92"x 12" 16
NB10/12AJ 14"x 82"	F94 = 94"x 12" 16
NB10/12AK 14"x 84"	F96 = 96"x 12" 16
NB10/12AL 14"x 86"	F98 = 98"x 12" 17
NB10/12AM 14"x 88"	F100 = 100"x 12" 17
NB10/12AN 14"x 90"	F102 = 102"x 12" 17
NB10/12AO 14"x 92"	F104 = 104"x 12" 18
NB10/12AP 14"x 94"	F106 = 106"x 12" 18
NB10/12AQ 14"x 96"	F108 = 108"x 12" 18
NB10/12AR 14"x 98"	F110 = 110"x 12" 19
NB10/12AS 14"x 100"	F112 = 112"x 12" 19
NB10/12AT 14"x 102"	F114 = 114"x 12" 19
NB10/12AU 14"x 104"	F116 = 116"x 12" 20
NB10/12AV 14"x 106"	F118 = 118"x 12" 20
NB10/12AW 14"x 108"	F120 = 120"x 12" 20
NB10/12AX 14"x 110"	F122 = 122"x 12" 21
NB10/12AY 14"x 112"	F124 = 124"x 12" 21
NB10/12AZ 14"x 114"	F126 = 126"x 12" 21
NB10/12BA 14"x 116"	F128 = 128"x 12" 22
NB10/12BB 14"x 118"	F130 = 130"x 12" 22
NB10/12BC 14"x 120"	F132 = 132"x 12" 22
NB10/12BD 14"x 122"	F134 = 134"x 12" 23
NB10/12BE 14"x 124"	F136 = 136"x 12" 23
NB10/12BF 14"x 126"	F138 = 138"x 12" 23
NB10/12BG 14"x 128"	F140 = 140"x 12" 24
NB10/12BH 14"x 130"	F142 = 142"x 12" 24
NB10/12BI 14"x 132"	F144 = 144"x 12" 24
NB10/12BJ 14"x 134"	F146 = 146"x 12" 25
NB10/12BK 14"x 136"	F148 = 148"x 12" 25
NB10/12BL 14"x 138"	F150 = 150"x 12" 25
NB10/12BM 14"x 140"	F152 = 152"x 12" 26
NB10/12BN 14"x 142"	F154 = 154"x 12" 26
NB10/12BO 14"x 144"	F156 = 156"x 12" 26
NB10/12BP 14"x 146"	F158 = 158"x 12" 27
NB10/12BQ 14"x 148"	F160 = 160"x 12" 27
NB10/12BR 14"x 150"	F162 = 162"x 12" 27
NB10/12BS 14"x 152"	F164 = 164"x 12" 28
NB10/12BT 14"x 154"	F166 = 166"x 12" 28
NB10/12BU 14"x 156"	F168 = 168"x 12" 28
NB10/12BV 14"x 158"	F170 = 170"x 12" 29
NB10/12BW 14"x 160"	F172 = 172"x 12" 29
NB10/12BX 14"x 162"	F174 = 174"x 12" 29
NB10/12BY 14"x 164"	F176 = 176"x 12" 30
NB10/12BZ 14"x 166"	F178 = 178"x 12" 30
NB10/12CA 14"x 168"	F180 = 180"x 12" 30
NB10/12CB 14"x 170"	F182 = 182"x 12" 31
NB10/12CC 14"x 172"	F184 = 184"x 12" 31
NB10/12CD 14"x 174"	F186 = 186"x 12" 31
NB10/12CE 14"x 176"	F188 = 188"x 12" 32
NB10/12CF 14"x 178"	F190 = 190"x 12" 32
NB10/12CG 14"x 180"	F192 = 192"x 12" 32
NB10/12CH 14"x 182"	F194 = 194"x 12" 33
NB10/12CI 14"x 184"	F196 = 196"x 12" 33
NB10/12CJ 14"x 186"	F198 = 198"x 12" 33
NB10/12CK 14"x 188"	F200 = 200"x 12" 34
NB10/12CL 14"x 190"	F202 = 202"x 12" 34
NB10/12CM 14"x 192"	F204 = 204"x 12" 34
NB10/12CN 14"x 194"	F206 = 206"x 12" 35
NB10/12CO 14"x 196"	F208 = 208"x 12" 35
NB10/12CP 14"x 198"	F210 = 210"x 12" 35
NB10/12CQ 14"x 200"	F212 = 212"x 12" 36
NB10/12CR 14"x 202"	F214 = 214"x 12" 36
NB10/12CS 14"x 204"	F216 = 216"x 12" 36
NB10/12CT 14"x 206"	F218 = 218"x 12" 37
NB10/12CU 14"x 208"	F220 = 220"x 12" 37
NB10/12CV 14"x 210"	F222 = 222"x 12" 37
NB10/12CW 14"x 212"	F224 = 224"x 12" 38
NB10/12CX 14"x 214"	F226 = 226"x 12" 38
NB10/12CY 14"x 216"	F228 = 228"x 12" 38
NB10/12CZ 14"x 218"	F230 = 230"x 12" 39
NB10/12DA 14"x 220"	F232 = 232"x 12" 39
NB10/12DB 14"x 222"	F234 = 234"x 12" 39
NB10/12DC 14"x 224"	F236 = 236"x 12" 40
NB10/12DD 14"x 226"	F238 = 238"x 12" 40
NB10/12DE 14"x 228"	F240 = 240"x 12" 40
NB10/12DF 14"x 230"	F242 = 242"x 12" 41
NB10/12DG 14"x 232"	F244 = 244"x 12" 41
NB10/12DH 14"x 234"	F246 = 246"x 12" 41
NB10/12DI 14"x 236"	F248 = 248"x 12" 42
NB10/12DJ 14"x 238"	F250 = 250"x 12" 42
NB10/12DK 14"x 240"	F252 = 252"x 12" 42
NB10/12DL 14"x 242"	F254 = 254"x 12" 43
NB10/12DM 14"x 244"	F256 = 256"x 12" 43
NB10/12DN 14"x 246"	F258 = 258"x 12" 43
NB10/12DO 14"x 248"	F260 = 260"x 12" 44
NB10/12DP 14"x 250"	F262 = 262"x 12" 44
NB10/12DQ 14"x 252"	F264 = 264"x 12" 44
NB10/12DR 14"x 254"	F266 = 266"x 12" 45
NB10/12DS 14"x 256"	F268 = 268"x 12" 45
NB10/12DT 14"x 258"	F270 = 270"x 12" 45
NB10/12DU 14"x 260"	F272 = 272"x 12" 46
NB10/12DV 14"x 262"	F274 = 274"x 12" 46
NB10/12DW 14"x 264"	F276 = 276"x 12" 46
NB10/12DX 14"x 266"	F278 = 278"x 12" 47
NB10/12DY 14"x 268"	F280 = 280"x 12" 47
NB10/12DZ 14"x 270"	F282 = 282"x 12" 47
NB10/12EA 14"x 272"	F284 = 284"x 12" 48
NB10/12EB 14"x 274"	F286 = 286"x 12" 48
NB10/12EC 14"x 276"	F288 = 288"x 12" 48
NB10/12ED 14"x 278"	F290 = 290"x 12" 49
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NB10/12EG 14"x 284"	F296 = 296"x 12" 50
NB10/12EH 14"x 286"	F298 = 298"x 12" 50
NB10/12EI 14"x 288"	F300 = 300"x 12" 50
NB10/12EJ 14"x 290"	F302 = 302"x 12" 51
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NB10/12FB 14"x 326"	F338 = 338"x 12" 57
NB10/12FC 14"x 328"	F340 = 340"x 12" 57
NB10/12FD 14"x 330"	F342 = 342"x 12" 57
NB10/12FE 14"x 332"	F344 = 344"x 12" 58
NB10/12FF 14"x 334"	F346 = 346"x 12" 58
NB10/12FG 14"x 336"	F348 = 348"x 12" 58
NB10/12FH 14"x 338"	F350 = 350"x 12" 59
NB10/12FI 14"x 340"	F352 = 352"x 12" 59
NB10/12FJ 14"x 342"	F354 = 354"x 12" 59
NB10/12FK 14"x 344"	F356 = 356"x 12" 60
NB10/12FL 14"x 346"	F358 = 358"x 12" 60
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NB10/12FN 14"x 350"	F362 = 362"x 12" 61
NB10/12FO 14"x 352"	F364 = 364"x 12" 61
NB10/12FP 14"x 354"	F366 = 366"x 12" 61
NB10/12FQ 14"x 356"	F368 = 368"x 12" 62
NB10/12FR 14"x 358"	F370 = 370"x 12" 62
NB10/12FS 14"x 360"	F372 = 372"x 12" 62
NB10/12FT 14"x 362"	F374 = 374"x 12" 63
NB10/12FU 14"x 364"	F376 = 376"x 12" 63
NB10/12FV 14"x 366"	F378 = 378"x 12" 63
NB10/12FW 14"x 368"	F380 = 380"x 12" 64
NB10/12FX 14"x 370"	F382 = 382"x 12" 64
NB10/12FY 14"x 372"	F384 = 384"x 12" 64
NB10/12FZ 14"x 374"	F386 = 386"x 12" 65
NB10/12GA 14"x 376"	F388 = 388"x 12" 65
NB10/12GB 14"x 378"	F390 = 390"x 12" 65
NB10/12GC 14"x 380"	F392 = 392"x 12" 66
NB10/12GD 14"x 382"	F394 = 394"x 12" 66
NB10/12GE 14"x 384"	F396 = 396"x 12" 66
NB10/12GF 14"x 386"	F398 = 398"x 12" 67
NB10/12GG 14"x 388"	F400 = 400"x 12" 67
NB10/12GH 14"x 390"	F402 = 402"x 12" 67
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NB10/12GP 14"x 406"	F418 = 418"x 12" 70
NB10/12GQ 14"x 408"	F420 = 420"x 12" 70
NB10/12GR 14"x 410"	F422 = 422"x 12" 71
NB10/12GS 14"x 412"	F424 = 424"x 12" 71
NB10/12GT 14"x 414"	F426 = 426"x 12" 71
NB10/12GU 14"x 416"	F428 = 428"x 12" 72
NB10/12GV 14"x 418"	F430 = 430"x 12" 72
NB10/12GW 14"x 420"	F432 = 432"x 12" 72
NB10/12GX 14"x 422"	F434 = 434"x 12" 73
NB10/12GY 14"x 424"	F436 = 436"x 12" 73
NB10/12GZ 14"x 426"	F438 = 438"x 12" 73
NB10/12HA 14"x 428"	F440 = 440"x 12" 74
NB10/12HB 14"x 430"	F442 = 442"x 12" 74
NB10/12HC 14"x 432"	F444 = 444"x 12" 74
NB10/12HD 14"x 434"	F446 = 446"x 12" 75
NB10/12HE 14"x 436"	F448 = 448"x 12" 75
NB10/12HF 14"x 438"	F450 = 450"x 12" 75
NB10/12HG 14"x 440"	F452 = 452"x 12" 75
NB10/12HH 14"x 442"	F454 = 454"x 12" 76
NB10/12HI 14"x 444"	F456 = 456"x 12" 76
NB10/12HJ 14"x 446"	F458 = 458"x 12" 76
NB10/12HK 14"x 448"	F460 = 460"x 12" 77
NB10/12HL 14"x 450"	F462 = 462"x 12" 77
NB10/12HM 14"x 452"	F464 = 464"x 12" 77
NB10/12HN 14"x 454"	F466 = 466"x 12" 78
NB10/12HO 14"x 456"	F468 = 468"x 12" 78
NB10/12HP 14"x 458"	F470 = 470"x 12" 78
NB10/12HQ 14"x 460"	F472 = 472"x 12" 79
NB10/12HR 14"x 462"	F474 = 474"x 12" 79
NB10/12HS 14"x 464"	F476 = 476"x 12" 79
NB10/12HT 14"x 466"	F478 = 478"x 12" 80
NB10/12HU 14"x 468"	F480 = 480"x 12" 80
NB10/12HV 14"x 470"	F482 = 482"x 12" 80
NB10/12HW 14"x 472"	





**STRUCTURAL  
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PROFESSIONAL CERTIFICATION  
 I certify that these documents  
 were prepared or approved  
 by me, and that I am a duly  
 licensed professional  
 architect under the laws of the  
 State of Maryland.  
 License Number #31466  
 Expiration Date: 2/14/2023.

## PROPOSED RESIDENCE

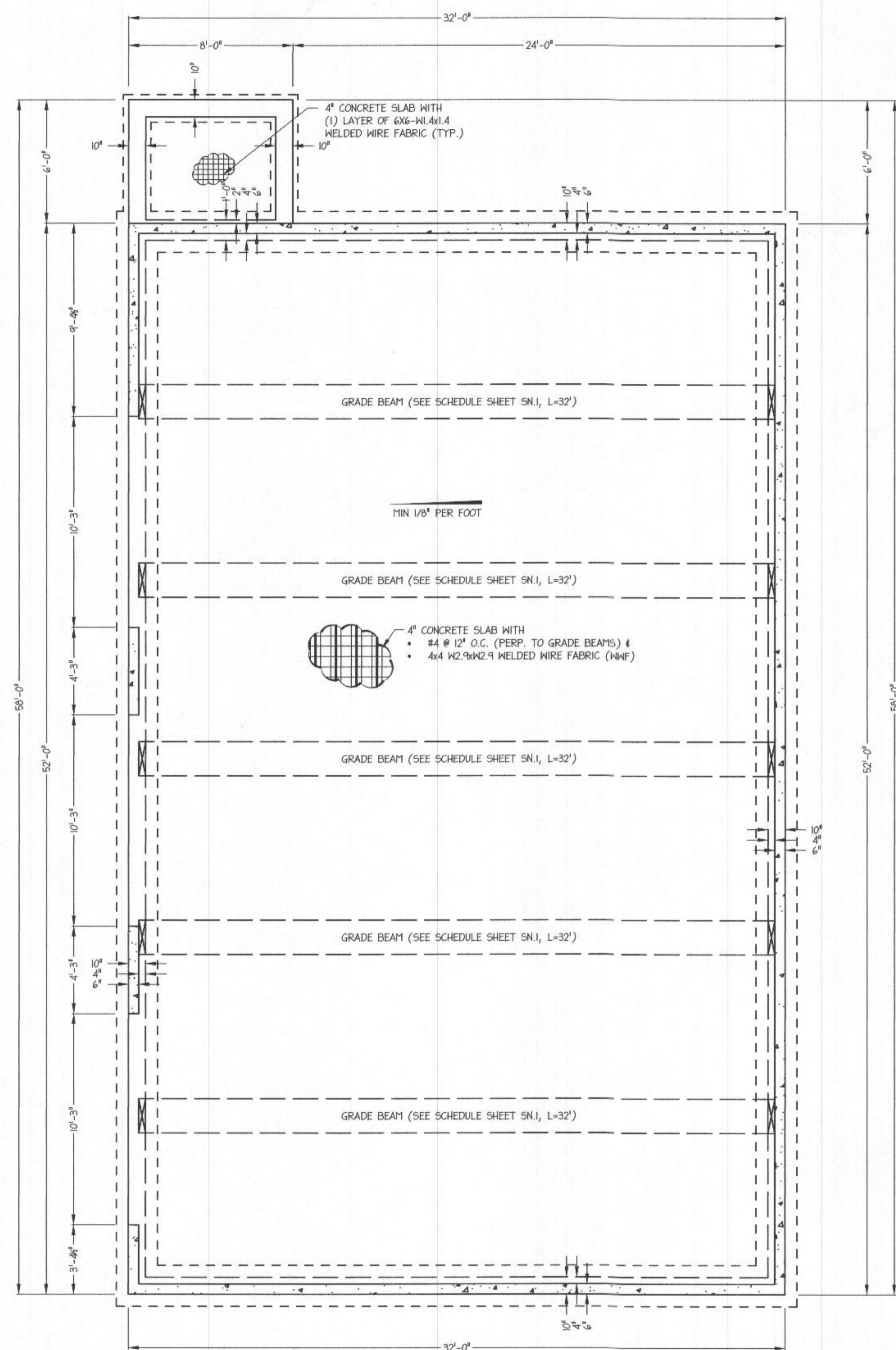
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 21104

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 Howard County, Maryland

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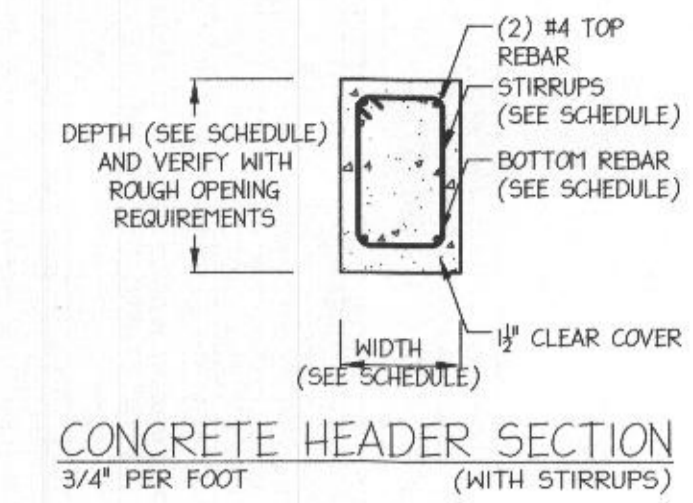
BUILDER



**FOUNDATION PLAN**  
 1/4" PER FT DETACHED GARAGE

FOOTING SCHEDULE	
HALL FOOTINGS	SQUARE FOOTINGS
8x12	F24 = 24" x 12" x 4
8x14	F26 = 26" x 12" x 5
8x16	F28 = 28" x 12" x 5
8x18	F30 = 30" x 12" x 5
8x20	F32 = 32" x 12" x 6
8x22	F34 = 34" x 12" x 6
8x24	F36 = 36" x 12" x 6
8x26	F38 = 38" x 12" x 7
8x28	F40 = 40" x 12" x 7
8x30	F42 = 42" x 12" x 7
8x32	F44 = 44" x 12" x 8
8x34	F46 = 46" x 12" x 8
8x36	F48 = 48" x 12" x 8
8x38	F50 = 50" x 12" x 9
8x40	F52 = 52" x 12" x 9
8x42	F54 = 54" x 12" x 9
8x44	F56 = 56" x 12" x 10
8x46	F58 = 58" x 12" x 10
8x48	F60 = 60" x 12" x 10
8x50	F62 = 62" x 12" x 11
8x52	F64 = 64" x 12" x 11
8x54	F66 = 66" x 12" x 11
8x56	F68 = 68" x 12" x 12
8x58	F70 = 70" x 12" x 12
8x60	F72 = 72" x 12" x 12
8x62	F74 = 74" x 12" x 13
8x64	F76 = 76" x 12" x 13
8x66	F78 = 78" x 14" x 13
8x68	F80 = 80" x 14" x 14
8x70	F82 = 82" x 14" x 14
8x72	F84 = 84" x 14" x 14
8x74	F86 = 86" x 14" x 15
8x76	F88 = 88" x 14" x 15
8x78	F90 = 90" x 14" x 15
8x80	F92 = 92" x 14" x 16
8x82	F94 = 94" x 14" x 16
8x84	F96 = 96" x 14" x 16
8x86	F98 = 98" x 14" x 16
8x88	F100 = 100" x 14" x 16
8x90	F102 = 102" x 14" x 16
8x92	F104 = 104" x 14" x 16
8x94	F106 = 106" x 14" x 16
8x96	F108 = 108" x 14" x 16
8x98	F110 = 110" x 14" x 16
8x100	F112 = 112" x 14" x 16
8x102	F114 = 114" x 14" x 16
8x104	F116 = 116" x 14" x 16
8x106	F118 = 118" x 14" x 16
8x108	F120 = 120" x 14" x 16
8x110	F122 = 122" x 14" x 16
8x112	F124 = 124" x 14" x 16
8x114	F126 = 126" x 14" x 16
8x116	F128 = 128" x 14" x 16
8x118	F130 = 130" x 14" x 16
8x120	F132 = 132" x 14" x 16
8x122	F134 = 134" x 14" x 16
8x124	F136 = 136" x 14" x 16
8x126	F138 = 138" x 14" x 16
8x128	F140 = 140" x 14" x 16
8x130	F142 = 142" x 14" x 16
8x132	F144 = 144" x 14" x 16
8x134	F146 = 146" x 14" x 16
8x136	F148 = 148" x 14" x 16
8x138	F150 = 150" x 14" x 16
8x140	F152 = 152" x 14" x 16
8x142	F154 = 154" x 14" x 16
8x144	F156 = 156" x 14" x 16
8x146	F158 = 158" x 14" x 16
8x148	F160 = 160" x 14" x 16
8x150	F162 = 162" x 14" x 16
8x152	F164 = 164" x 14" x 16
8x154	F166 = 166" x 14" x 16
8x156	F168 = 168" x 14" x 16
8x158	F170 = 170" x 14" x 16
8x160	F172 = 172" x 14" x 16
8x162	F174 = 174" x 14" x 16
8x164	F176 = 176" x 14" x 16
8x166	F178 = 178" x 14" x 16
8x168	F180 = 180" x 14" x 16
8x170	F182 = 182" x 14" x 16
8x172	F184 = 184" x 14" x 16
8x174	F186 = 186" x 14" x 16
8x176	F188 = 188" x 14" x 16
8x178	F190 = 190" x 14" x 16
8x180	F192 = 192" x 14" x 16
8x182	F194 = 194" x 14" x 16
8x184	F196 = 196" x 14" x 16
8x186	F198 = 198" x 14" x 16
8x188	F200 = 200" x 14" x 16
8x190	F202 = 202" x 14" x 16
8x192	F204 = 204" x 14" x 16
8x194	F206 = 206" x 14" x 16
8x196	F208 = 208" x 14" x 16
8x198	F210 = 210" x 14" x 16
8x200	F212 = 212" x 14" x 16
8x202	F214 = 214" x 14" x 16
8x204	F216 = 216" x 14" x 16
8x206	F218 = 218" x 14" x 16
8x208	F220 = 220" x 14" x 16
8x210	F222 = 222" x 14" x 16
8x212	F224 = 224" x 14" x 16
8x214	F226 = 226" x 14" x 16
8x216	F228 = 228" x 14" x 16
8x218	F230 = 230" x 14" x 16
8x220	F232 = 232" x 14" x 16
8x222	F234 = 234" x 14" x 16
8x224	F236 = 236" x 14" x 16
8x226	F238 = 238" x 14" x 16
8x228	F240 = 240" x 14" x 16
8x230	F242 = 242" x 14" x 16
8x232	F244 = 244" x 14" x 16
8x234	F246 = 246" x 14" x 16
8x236	F248 = 248" x 14" x 16
8x238	F250 = 250" x 14" x 16
8x240	F252 = 252" x 14" x 16
8x242	F254 = 254" x 14" x 16
8x244	F256 = 256" x 14" x 16
8x246	F258 = 258" x 14" x 16
8x248	F260 = 260" x 14" x 16
8x250	F262 = 262" x 14" x 16
8x252	F264 = 264" x 14" x 16
8x254	F266 = 266" x 14" x 16
8x256	F268 = 268" x 14" x 16
8x258	F270 = 270" x 14" x 16
8x260	F272 = 272" x 14" x 16
8x262	F274 = 274" x 14" x 16
8x264	F276 = 276" x 14" x 16
8x266	F278 = 278" x 14" x 16
8x268	F280 = 280" x 14" x 16
8x270	F282 = 282" x 14" x 16
8x272	F284 = 284" x 14" x 16
8x274	F286 = 286" x 14" x 16
8x276	F288 = 288" x 14" x 16
8x278	F290 = 290" x 14" x 16
8x280	F292 = 292" x 14" x 16
8x282	F294 = 294" x 14" x 16
8x284	F296 = 296" x 14" x 16
8x286	F298 = 298" x 14" x 16
8x288	F300 = 300" x 14" x 16
8x290	F302 = 302" x 14" x 16
8x292	F304 = 304" x 14" x 16
8x294	F306 = 306" x 14" x 16
8x296	F308 = 308" x 14" x 16
8x298	F310 = 310" x 14" x 16
8x300	F312 = 312" x 14" x 16
8x302	F314 = 314" x 14" x 16
8x304	F316 = 316" x 14" x 16
8x306	F318 = 318" x 14" x 16
8x308	F320 = 320" x 14" x 16
8x310	F322 = 322" x 14" x 16
8x312	F324 = 324" x 14" x 16
8x314	F326 = 326" x 14" x 16
8x316	F328 = 328" x 14" x 16
8x318	F330 = 330" x 14" x 16
8x320	F332 = 332" x 14" x 16
8x322	F334 = 334" x 14" x 16
8x324	F336 = 336" x 14" x 16
8x326	F338 = 338" x 14" x 16
8x328	F340 = 340" x 14" x 16
8x330	F342 = 342" x 14" x 16
8x332	F344 = 344" x 14" x 16
8x334	F346 = 346" x 14" x 16
8x336	F348 = 348" x 14" x 16
8x338	F350 = 350" x 14" x 16
8x340	F352 = 352" x 14" x 16
8x342	F354 = 354" x 14" x 16
8x344	F356 = 356" x 14" x 16
8x346	F358 = 358" x 14" x 16
8x348	F360 = 360" x 14" x 16
8x350	F362 = 362" x 14" x 16
8x352	F364 = 364" x 14" x 16
8x354	F366 = 366" x 14" x 16
8x356	F368 = 368" x 14" x 16
8x358	F370 = 370" x 14" x 16
8x360	F372 = 372" x 14" x 16
8x362	F374 = 374" x 14" x 16
8x364	F376 = 376" x 14" x 16
8x366	F378 = 378" x 14" x 16
8x368	F380 = 380" x 14" x 16
8x370	F382 = 382" x 14" x 16
8x372	F384 = 384" x 14" x 16
8x374	F386 = 386" x 14" x 16
8x376	F388 = 388" x 14" x 16
8x378	F390 = 390" x 14" x 16
8x380	F392 = 392" x 14" x 16
8x382	F394 = 394" x 14" x 16
8x384	F396 = 396" x 14" x 16
8x386	F398 = 398" x 14" x 16
8x388	F400 = 400" x 14" x 16
8x390	F402 = 402" x 14" x 16
8x392	F404 = 404" x 14" x 16
8x394	F406 = 406" x 14" x 16
8x396	F408 = 408" x 14" x 16
8x398	F410 = 410" x 14" x 16
8x400	F412 = 412" x 14" x 16
8x402	F414 = 414" x 14" x 16
8x404	F416 = 416" x 14" x 16
8x406	F418 = 418" x 14" x 16
8x408	F420 = 420" x 14" x 16
8x410	F422 = 422" x 14" x 16
8x412	F424 = 424" x 14" x 16
8x414	F426 = 426" x 14" x 16
8x416	F428 = 428" x 14" x 16
8x418	F430 = 430" x 14" x 16
8x420	F432 = 432" x 14" x 16
8x422	F434 = 434" x 14" x 16
8x424	F436 = 436" x 14" x 16
8x426	F438 = 438" x 14" x 16
8x428	F440 = 440" x 14" x 16
8x430	F442 = 442" x 14" x 16
8x432	F444 = 444" x 14" x 16
8x434	F446 = 446" x 14" x 16
8x436	F448 = 448" x 14" x 16
8x438	F450 = 450" x 14" x 16
8x440	F452 = 452" x 14" x 16
8x442	F454 = 454" x 14" x 16
8x444	F456 = 456" x 14" x 16
8x446	F458 = 458" x 14" x 16
8x448	F460 = 460" x 14" x 16
8x450	F462 = 462" x 14" x 16
8x452	F464 = 464" x 14" x 16
8x454	F466 = 466" x 14" x 16
8x456	F468 = 468" x 14" x 16
8x458	F470 = 470" x 14" x 16
8x460	F472 = 472" x 14" x 16
8x462	F474 = 474" x 14" x 16
8x464	F476 = 476" x 14" x 16
8x466	F478 = 478" x 14" x 16
8x468	F480 = 480" x 14" x 16
8x470	F482 = 482" x 14" x 16
8x472	F484 = 484" x 14" x 16
8x474	F486 = 486" x 14" x 16
8x476	F488 = 488" x 14" x 16
8x478	F490 = 490" x 14" x 16
8x480	F492 = 492" x 14" x 16
8x482	F494 = 494" x 14" x 16
8x484	F496 = 496" x 14" x 16
8x486	F498 = 498" x 14" x 16
8x488	F500 = 500" x 14" x 16
8x490	F502 = 502" x 14" x 16
8x492	F504 = 504" x 14" x 16
8x494	F506 = 506" x 14" x 16
8x496	F508 = 508" x 14" x 16
8x498	F510 = 510" x 14" x 16
8x500	F512 = 512" x 14" x 16
8x502	F514 = 514" x 14" x 16
8x504	F516 = 516" x 14" x 16
8x506	F518 = 518" x 14" x 16
8x508	F520 = 520" x 14" x 16
8x510	F522 = 522" x 14" x 16
8x512	F524 = 524" x 14" x 16
8x514	F526 = 526" x 14" x 16
8x516	F528 = 528" x 14" x 16
8x518	F530 = 530" x 14" x 16
8x520	F532 = 532" x 14" x 16
8x522	F534 = 534" x 14" x 16
8x524	F536 = 536" x 14" x 16
8x526	F538 = 538" x 14" x 16
8x528	F540 = 540" x 14" x 16
8x530	F542 = 542" x 14" x 16
8x532	F544 = 544" x 14" x 16
8x534	F546 = 546" x 14" x 16
8x536	F548 = 548" x 14" x 16
8x538	F550 = 550" x 14" x 16
8x540	F552 = 552" x 14" x 16
8x542	F554 = 554" x 14" x 16
8x544	F556 = 556" x 14" x 16
8x546	F558 = 558" x 14" x 16
8x548	F560 = 560" x 14" x 16
8x550	F562 = 562"

CONCRETE HEADER SCHEDULE (12" STRUCTURAL SLAB OPTION)				
HEADER MARK	WIDTH	DEPTH	BOTTOM REBAR	STIRRUPS (EACH END)
CONCRETE HEADER #1	10"	12"	(2) #6 REBAR	(9) #3 @ 4" O.C.
CONCRETE HEADER #2	10"	6"	(2) #4 REBAR	



**DECK STEEL BEAM NOTE:**  
 • IN LIEU OF STEEL BEAM BUILDER MAY  
 •• ADD A 8" CONCRETE FOUNDATION WALL ON A W8C FOOTING.  
 •• USE (2) P.T. 2X10 DROPPED BEAM WITH A P66 CENTER POST ON AN F24 FOOTING.

CONCRETE HEADER SECTION  
 3/4" PER FOOT (WITH STIRRUPS)



FIRST FLOOR FRAMING PLAN  
 1/4" PER FOOT

BEAM & POST SCHEDULE					
BEAM MARKS ARE PRECEDED BY # OF PILES - 1, 2, 3 OR 4 AND END WITH "F", FLUSH CONDITION INDICATOR, IF APPLICABLE. EXAMPLE: 3SY2P2F INDICATES A 3-PLY, SY#2, 2x6, FLUSH, SOLID SAWN LUMBER.					
MARK	SIZE	LUMBER	MARK	SIZE	LUMBER
SYP26	2x6	SYP#2	LVL15	1 1/2" x 6"	2.0E LVL
SYP28	2x8	SYP#2	LVL7	1 1/2" x 7"	2.0E LVL
SYP210	2x10	SYP#2	LVL9	1 1/2" x 9"	2.0E LVL
SYP212	2x12	SYP#2	LVL12	1 1/2" x 12"	2.0E LVL
SYP26	2x6	SYP#2	LVL11	1 1/2" x 11"	2.0E LVL
SYP28	2x8	SYP#2	LVL17B	1 1/2" x 17 1/2"	2.0E LVL
SYP210	2x10	SYP#2	LVL14	1 1/2" x 14"	2.0E LVL
SYP212	2x12	SYP#2	LVL16	1 1/2" x 16"	2.0E LVL
			LVL18	1 1/2" x 18"	2.0E LVL
POST SCHEDULE					
BUILT-UP					
F1	1-2x4	POST	L5L4	1 1/2" x 4"	1.3E L5L
			L5L5	1 1/2" x 5"	1.3E L5L
			L5L7	1 1/2" x 7"	1.5E L5L
			L5L9	1 1/2" x 9"	1.5E L5L
P2	2-2x4	BUILT-UP	L5L12	1 1/2" x 12"	1.5E L5L
P3	3-2x4	BUILT-UP	L5L11	1 1/2" x 11"	1.5E L5L
P4	4-2x4	BUILT-UP	L5L17B	1 1/2" x 17 1/2"	1.5E L5L
P5	5-2x4	BUILT-UP	L5L14	1 1/2" x 14"	1.5E L5L
			L5L16	1 1/2" x 16"	1.5E L5L
SOLID WOOD					
P33	3 1/2" x 3 1/2"	PSL (1.8E)	PSL9	3 1/2" x 9"	2.0E PSL
P35	3 1/2" x 5 1/2"	PSL (1.8E)	PSL9/2	3 1/2" x 9 1/2"	2.0E PSL
P37	3 1/2" x 7"	PSL (1.8E)	PSL11	3 1/2" x 11"	2.0E PSL
P35	5 1/2" x 5 1/2"	PSL (1.8E)	PSL17B	3 1/2" x 17 1/2"	2.0E PSL
P57	5 1/2" x 7"	PSL (1.8E)	PSL14	3 1/2" x 14"	2.0E PSL
P77	7 1/2" x 7"	PSL (1.8E)	PSL18	3 1/2" x 18"	2.0E PSL
P44	3 1/2" x 3 1/2"	PT-SYP	PSL20	3 1/2" x 20"	2.2E PSL
P66	5 1/2" x 5 1/2"	PT-SYP	PSL24	3 1/2" x 24"	2.2E PSL
STEEL					
P340	3" x 3"	STD PIPE	PSL5/4	5 1/2" x 4"	2.0E PSL
			PSL5/12	5 1/2" x 12"	2.0E PSL
P3540	3 1/2" x 3 1/2"	STD PIPE	PSL5/11	5 1/2" x 11"	2.0E PSL
P440	4" x 4"	STD PIPE	PSL5/17B	5 1/2" x 17 1/2"	2.0E PSL
P450	5" x 5"	STD PIPE	PSL5/14	5 1/2" x 14"	2.0E PSL
P450	5" x 5"	STD PIPE	PSL5/16	5 1/2" x 16"	2.0E PSL
P640	6" x 6"	STD PIPE	PSL5/18	5 1/2" x 18"	2.0E PSL
			PSL5/20	5 1/2" x 20"	2.0E PSL
			PSL5/24	5 1/2" x 24"	2.0E PSL

ARCHITECTURE  
**JONATHAN RIVERA**  
*Every Detail Matters*  
 (443) 226-5745  
 JONATHANRIVERA.COM

**STRUCTURAL ENGINEERING**  
**MID-ATLANTIC STRUCTURAL ENGINEERING**  
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 www.midatl-se.com

PROFESSIONAL CERTIFICATION  
 I certify that these documents were prepared or approved by me, and that I am a duly licensed professional architect under the laws of the State of Maryland, License Number #31466, Expiration Date: 2/14/2023.

**PROPOSED RESIDENCE**

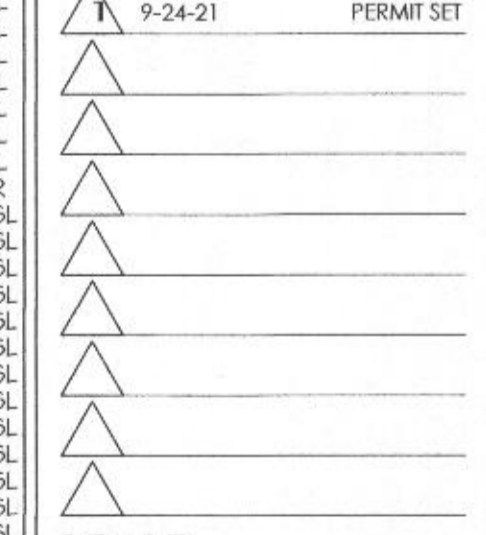
**FIELDS RESIDENCE**  
 Henryton Road  
 Marriottsville, Maryland  
 21104

ARCHITECT  
 Jonathan Rivera AIA, NCARB  
 Howard County, Maryland

443.226.5745  
 jrivera@jonathanrivera.com

BUILDER

ISSUE DATE

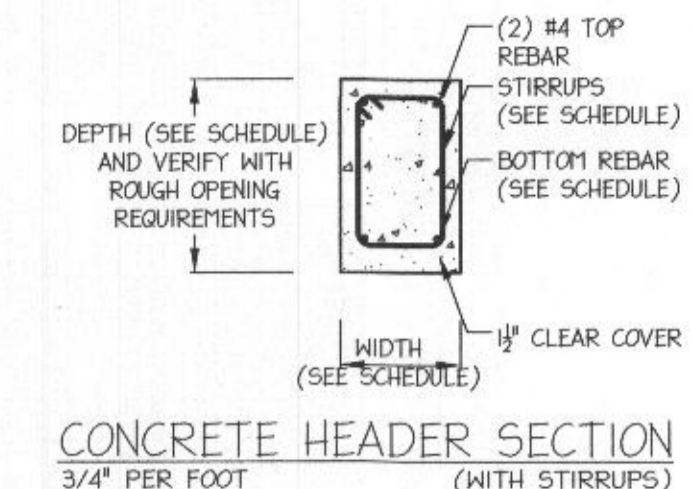


SCALE:

1ST FLR FRAMING

**S1.1**  
 PRINT DATE:  
 Friday, January 7, 2022

CONCRETE HEADER SCHEDULE (12" STRUCTURAL SLAB OPTION)				
HEADER MARK	WIDTH	DEPTH	BOTTOM REBAR	STIRRUPS (EACH END)
CONCRETE HEADER #1	10"	12"	(2) #6 REBAR	(9) #3 @ 4" O.C.
CONCRETE HEADER #2	10"	6"	(2) #4 REBAR	



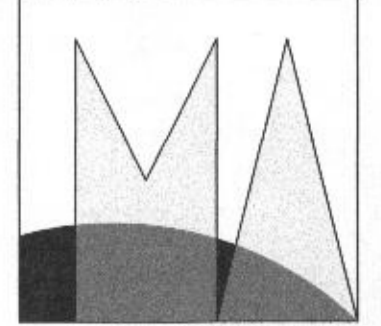
**DECK STEEL BEAM NOTE:**  
 • IN LIEU OF STEEL BEAM BUILDER MAY  
 •• ADD A 8" CONCRETE FOUNDATION WALL ON A W8C FOOTING.  
 •• USE (2) P.T. 2X10 DROPPED BEAM WITH A P66 CENTER POST ON AN F24 FOOTING.

CONCRETE HEADER SECTION  
 3/4" PER FOOT (WITH STIRRUPS)



FIRST FLOOR FRAMING PLAN  
 1/4" PER FOOT

BEAM & POST SCHEDULE			
BEAM MARKS ARE PRECEDED BY # OF PILES - 1, 2, 3 OR 4 AND END WITH "F", FLUSH CONDITION INDICATOR, IF APPLICABLE. EXAMPLE: 3SY2P2F INDICATES A 3-PLY, SYP#2, 2x6, FLUSH ENGINEERED LUMBER.			
MARK	SIZE	LUMBER	LUMBER
SYP26	2x6	SYP#2	LVL15 1 3/4" x 5 1/2" 2.0E LVL
SYP28	2x8	SYP#2	LVL7 1 3/4" x 7 1/2" 2.0E LVL
SYP210	2x10	SYP#2	LVL9 1 3/4" x 9 1/2" 2.0E LVL
SYP212	2x12	SYP#2	LVL9 1 3/4" x 9 1/2" 2.0E LVL
SYP26	2x6	SYP#2	LVL#2 1 3/4" x 5 1/2" 2.0E LVL
SYP28	2x8	SYP#2	LVL11 1 3/4" x 11 1/2" 2.0E LVL
SYP210	2x10	SYP#2	LVL17 1 3/4" x 17 1/2" 2.0E LVL
SYP212	2x12	SYP#2	LVL14 1 3/4" x 14 1/2" 2.0E LVL
			LVL16 1 3/4" x 16 1/2" 2.0E LVL
			LVL18 1 3/4" x 18 1/2" 2.0E LVL
POST SCHEDULE			
LAMINATED STRAND LUMBER			
BUILT-UP			
F1	1-2x4	POST	L5L4 1 3/4" x 4 1/2" 1.3E L5L
			L5L5 1 3/4" x 5 1/2" 1.3E L5L
			L5L7 1 3/4" x 7 1/2" 1.5E L5L
			L5L9 1 3/4" x 9 1/2" 1.5E L5L
P2	2-2x4	BUILT-UP	L5L#2 1 3/4" x 9 1/2" 1.5E L5L
P3	3-2x4	BUILT-UP	L5L11 1 3/4" x 11 1/2" 1.5E L5L
P4	4-2x4	BUILT-UP	L5L17 1 3/4" x 17 1/2" 1.5E L5L
P5	5-2x4	BUILT-UP	L5L14 1 3/4" x 14 1/2" 1.5E L5L
			L5L16 1 3/4" x 16 1/2" 1.5E L5L
SOLID WOOD			
P33	3 3/4" x 3 3/4"	PSL (1.8E)	PSL9 3 3/4" x 9 1/2" 2.0E PSL
P35	3 3/4" x 5 1/2"	PSL (1.8E)	PSL#2 3 3/4" x 11 1/2" 2.0E PSL
P37	3 3/4" x 7 1/2"	PSL (1.8E)	PSL11 3 3/4" x 11 1/2" 2.0E PSL
P35	5 1/2" x 5 1/2"	PSL (1.8E)	PSL17 3 3/4" x 17 1/2" 2.0E PSL
P57	5 1/2" x 7 1/2"	PSL (1.8E)	PSL14 3 3/4" x 14 1/2" 2.0E PSL
P77	7 1/2" x 7 1/2"	PSL (1.8E)	PSL18 3 3/4" x 18 1/2" 2.0E PSL
P44	3 3/4" x 3 3/4"	PT-SYP	PSL20 3 3/4" x 20 1/2" 2.2E PSL
P66	5 1/2" x 5 1/2"	PT-SYP	PSL24 3 3/4" x 24 1/2" 2.2E PSL
STEEL			
P340	3" x 3"	STD PIPE	PSL5#4 5 1/2" x 9 1/2" 2.0E PSL
P3540	3 3/4" x 3 3/4"	STD PIPE	PSL5#12 5 1/2" x 12 1/2" 2.0E PSL
P440	4" x 4"	STD PIPE	PSL5#11 5 1/2" x 11 1/2" 2.0E PSL
P40	5" x 5"	STD PIPE	PSL5#14 5 1/2" x 14 1/2" 2.0E PSL
P40	6" x 6"	STD PIPE	PSL5#10 5 1/2" x 10 1/2" 2.0E PSL
			PSL5#20 5 1/2" x 20 1/2" 2.0E PSL
			PSL5#24 5 1/2" x 24 1/2" 2.0E PSL
NOTES: STD PIPE IS BASED ON STANDARD HEIGHT PIPE OR SCHEDULE 40 PIPE AND MAY BE ADJUSTABLE. BUILT-UP POSTS SHALL MATCH WALL / BEAM DIMENSION. EXAMPLE: P3-3-2x6 IN 6" WALL OR UNDER 5 1/2" BEAM. KING POSTS ARE RECD @ ALL DROPPED BEARINGS: ONE KING POST w/P1-3 & TWO KING POSTS w/ ALL OTHER POSTS. EXAMPLE: F2-2-2x6.			



**STRUCTURAL ENGINEERING**  
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PROFESSIONAL CERTIFICATION  
 I certify that these documents were prepared or approved by me, and that I am a duly licensed professional architect under the laws of the State of Maryland, License Number #31466, Expiration Date: 2/14/2023.

**PROPOSED RESIDENCE**

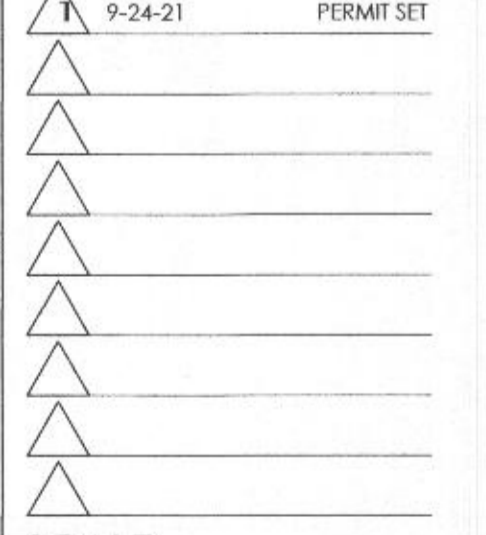
**FIELDS RESIDENCE**  
 Henryton Road  
 Marriottsville, Maryland  
 21104

ARCHITECT  
 Jonathan Rivera AIA, NCARB  
 Howard County, Maryland

443.226.5745  
 jrivera@jonathanrivera.com

BUILDER

**ISSUE DATE**



**SCALE:**

1ST FLR FRAMING

**S1.1**  
 PRINT DATE:  
 Friday, January 7, 2022