

STRUCTURAL DESIGN CRITERIA

DESIGN BASIS

A. LOADS:

FLOOR LOADS:

LIVE LOAD (INTERIOR)	40(PSF)
LIVE LOAD(BALCONIES)	60(PSF)
LIVE LOAD STAIRS, LANDING, WALKWAYS, UNIFORM	100(P.L.F)
DEAD LOAD	20(PSF)

ROOF LOADS:

LIVE LOAD (UN REDUCED)	20(PSF)
ROOF DEAD LOAD(SUPERIMPOSED)	10(PSF)
ROOFING MATERIAL & ACCESSORIES	10(PSF)
MISC. ROOF/CEILING DEAD LOADS:	10(PSF)

WIND LOADS:

BASIC WIND SPEED	85MPH
WIND EXPOSURE CATEGORY	B
RISK CATEGORY	II
IMPORTANCE FACTOR	1.00
BUILDING CATEGORY	ENCLOSURE
INTERNAL PRESSURE COEFFICIENT	0CFI++-0.18 TYP

B. DEFLECTION CRITERIA:

ROOF FRAMING: LIVE LOAD L/360 : TOTAL LOAD L/240
 FLOOR FRAMING: LIVE LOAD L/480 & TOTAL LOAD L/360 BS.75" MAX

C. APPLICABLE CODES:

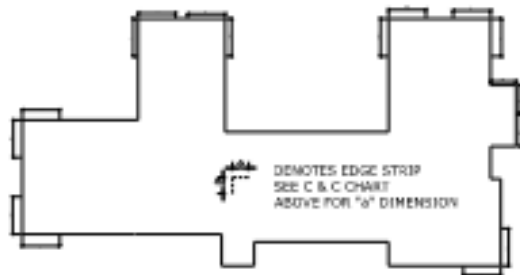
2020 FLORIDA BUILDING CODE - 7th EDITION
 2020 FLORIDA BUILDING CODE, 7th EDITION, RESIDENTIAL
 INTERNATIONAL BUILDING CODE, 2018
 AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE 7-16)
 BUILDING CODE REQUIREMENT FOR STRUCTURAL CONCRETE (ACI 318-14)

COMPONENTS & CLADDING PRESSURES

COMPONENTS & CLADDING ALLOWABLE PRESSURES				
TRIBUTARY AREA (SF)	INTERIOR ZONE (PSF)		EDGE STRIP (PSF) W = 7'-0"	
0-10	+29.5	-31.7	+29.5	-38.5
11-50	+25.7	-29.8	+26.7	-32.9
51-100	+25.5	-27.8	+25.5	-30.6
GARAGE DOOR				
8'X7'	+26.7	-29.8	+26.7	-32.9
16'X7'	+25.5	-27.8	+25.5	-30.6

WIND LOADING NOTES:

- THE VALUES SHOWN ABOVE HAVE BEEN REDUCED PER ASD LOAD COMBINATION 6.8R. NO FURTHER REDUCTIONS SHALL BE PERMITTED.
- PLUS = PRESSURE AND MINUS = SUCTION. COMPONENT AND CLADDING ELEMENTS SHALL BE DESIGNED FOR BOTH POSITIVE AND NEGATIVE PRESSURES SHOWN IN TABLE ABOVE.
- DESIGN OF WINDOWS AND DOOR FASTENING TO WALL, FRAMING IS THE RESPONSIBILITY OF THE WINDOW/DOOR MANUFACTURER AND SHALL MEET BOTH POSITIVE AND NEGATIVE PRESSURES SHOWN IN TABLE ABOVE.
- SEE SCHEMATIC BELOW FOR END ZONE LOCATIONS.



GENERAL STRUCTURAL NOTES

GENERAL NOTES:

THESE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKERS AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO, MEANS AND METHODS, BRACING, SHORING, FORMS, SCAFFOLDING, GUINING OR OTHER MEANS TO AVOID EXCESSIVE STRESSES AND TO HOLD STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER OR STRUCTURAL OBSERVERS SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.

TYPICAL DETAILS AND NOTES ON THESE SHEETS SHALL APPLY UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE. CONSTRUCTION DETAILS NOT FULLY SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS SHOWN FOR SIMILAR CONDITIONS. ALL WORK, MATERIALS AND CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES, REGULATIONS AND SAFETY REQ'TS.

FOR CLARITY, ALL OPENINGS MAY NOT BE SHOWN ON DRAWINGS. SEE ALSO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND RUMBING PLANS. ALL OPENINGS AND PENETRATIONS SHALL BE LOCATED AND VERIFIED BY ALL TRADES FROM DRAWINGS MADE BY THEM. CONTRACTOR SHALL NOT PROCEED WITH ANY WORK SHOWN ON DRAWINGS IF IN CONFLICT UNTIL RECEIVING CLARIFICATION FROM ARCHITECT. FOR FRAMING AT OPENINGS, SEE TYPICAL STRUCTURAL DETAILS.

WHERE A DETAIL, TYPICAL DETAIL, SECTION, TYPICAL SECTION OR PLAN NOTE IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL SIMILAR OR LIKE CONDITIONS UNLESS OTHERWISE NOTED.

CONTRACT DOCUMENTS INCLUDE, BUT ARE NOT LIMITED TO, THE STRUCTURAL DOCUMENTS (DRAWINGS AND SPECIFICATIONS), BUT DO NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS, OR MATERIAL PREPARED AND SUBMITTED BY THE CONTRACTOR.

CONTRACT DOCUMENTS SHALL GOVERN IN THE EVENT OF A CONFLICT WITH THE CODE OF PRACTICE OR SPECIFICATIONS OF ACI, PCI, AISC, SJI OR OTHER STANDARDS. WHERE A CONFLICT OCCURS WITHIN THE CONTRACT DOCUMENTS, THE STRICTEST REQUIREMENT SHALL GOVERN.

MATERIAL, WORKMANSHIP, AND DESIGN SHALL CONFORM TO THE REFERENCED BUILDING CODE.

THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH WORK. FOR DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS, SEE ARCHITECTURAL DRAWINGS. DO NOT SCALE FOR DIMENSIONS NOT SHOWN ON DRAWINGS. SEND WRITTEN REQUEST FOR INFORMATION TO THE ARCHITECT FOR DIMENSIONS NOT PROVIDED.

ALL DIMENSIONS AND ELEVATIONS SHOWN ON STRUCTURAL DRAWINGS SHALL BE VERIFIED WITH ARCHITECTURAL DRAWINGS. RESOLVE ALL DISCREPANCIES WITH ARCHITECT PRIOR TO START OF CONSTRUCTION. DO NOT SCALE DRAWINGS COORDINATE THE STRUCTURAL DOCUMENTS WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, RUMBING AND CIVIL DOCUMENTS. ARCHITECT/STRUCTURAL ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY OR OMISSION.

CONTRACTOR HAS SOLE RESPONSIBILITY FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION. CONTRACTOR HAS SOLE RESPONSIBILITY FOR THE DESIGN, ACCURACY, AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS. CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA SAFETY REGULATIONS FOR ITS EMPLOYEES.

NO STRUCTURAL CHANGE FROM THE APPROVED PLANS AND SPECIFICATIONS SHALL BE MADE IN THE FIELD UNLESS WRITTEN APPROVAL IS OBTAINED PRIOR TO MAKING SUCH CHANGE. CHANGES WITHOUT THE WRITTEN APPROVAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONDITION SHALL BE REPAIRED OR REPLACED AS DIRECTED.

MEMORIALS AND HANDRAILS:

SHALL BE DESIGNED PER 2024 FLORIDA RESIDENTIAL CODE, TABLE R301.5. COMPLIANCE WITH THESE REQUIREMENTS IS THE RESPONSIBILITY OF THE RAILING MANUFACTURER.

FOOTING AND FOUNDATIONS:

FOOTINGS AND FOUNDATIONS SHALL BE IN ACCORDANCE WITH LOCAL BUILDING CODES. FOOTING HAVE BEEN DESIGNED WITH A SOIL BEARING (DESIGN MAXIMUM) OF 2000 PSF.

FOUNDATION PLAN ONLY CONVEYS STRUCTURAL INFORMATION. FOR GENERAL FEATURES, CONDUITS, ELECTRICAL EMBEDS, STEP HEIGHTS, ETC., SEE ARCHITECTURAL PLANS. DO NOT SCALE FOOTING DIMENSIONS AND LOCATIONS FROM THE FOUNDATION PLAN. IF FOOTING SIZE OR LOCATION IS NOT DETERMINED ON PLAN THEN CONTACT THE STRUCTURAL ENGINEER.

UNLESS OTHERWISE NOTED ON DRAWINGS, MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE 3" IN FOOTINGS AND MESH SHALL BE CENTERED IN SLAB ON GRADE USING SUPPORT BARS AND CHAIRS. IN ALL CONTINUOUS FOOTINGS PROVIDE 2# @ 48" O.C. OR ROD CHAIRS. PROVIDE CONTINUITY OF REINFORCING AT INTERSECTIONS OF PERPENDICULAR CONCRETE ELEMENTS BY INSTALLING CORNER BARS. MINIMUM OF 4# BAR DIAMETERS INTO EACH ELEMENT. SPLICES IN REINFORCING, WHERE PERMITTED, SHALL BE 4# BAR DIAMETERS.

UNLESS SPECIFICALLY NOTED AS "CANTILEVERED" ON PLAN OR DETAILS, WALLS RETAINING EARTH MUST BE SHORED CONTINUOUSLY PRIOR TO COMPLETION OF STRUCTURAL SLABS ON GRADE AND/OR FLATWALL SLABS HAVE BEEN PLACED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE DESIGN, ADEQUACY, SAFETY, AND STABILITY OF TEMPORARY ERECTION BRACING AND SHORING.

BACKFILL AGAINST WALLS SHALL BE DEPOSITED EVENLY IN 8" TO 12" LIFTS AGAINST BOTH SIDES OF WALL UNTIL THE LOWER FINAL GRADE IS REACHED. CONTRACTOR SHALL PROVIDE ADEQUATE BRACING OR SHORING FOR ALL WORK DURING THE CONSTRUCTION PERIOD. BACKFILL SHALL NOT BE PLACED AGAINST WALLS UNTIL THE WALLS HAVE ACHIEVED 75% OF SPECIFIED DESIGN STRENGTH.

FOOTINGS SHALL BE CENTERED ABOUT COLUMN LINES UNLESS NOTED OTHERWISE.

TOP OF FOOTING ELEVATIONS PROVIDED ON DRAWINGS ARE FOR PURPOSES OF CONTRACT & SHALL BE ADJUSTED, AS REQUIRED, AT TIME OF EXCAVATION TO BEAR ON PROPERLY PREPARED SUPPORT SUBGRADE OR TO ADJUST FOOTING ELEVATIONS TO AVOID INTERFERENCE BETWEEN FOUNDATIONS & BURIED PIPING. DO NOT SPREAD PIPING WITHIN OR PASS PIPING VERTICALLY OR HORIZONTALLY THROUGH ISOLATED FOOTINGS.

FILL TO BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557. PLACE FILL IN LAYERS OF 8" THICK.

TESTS FOR DEGREE OF COMPACTION SHALL BE DETERMINED BY THE ASTM D-1556 OR ASTM D-2922 TEST METHODS. IF LESS THAN 95 (U.O.N. IN SOILS REPORT) PERCENT IS INDICATED, ADDITIONAL COMPACTION EFFORT SHALL BE MADE WITH ADJUSTMENT OF THE MOISTURE CONTENT AS REQUIRED UNTIL COMPACTION IS OBTAINED.

CAST-IN-PLACE CONCRETE:

TO BE PLACED AND CURED IN ACCORDANCE WITH ACI 308, ACI 305 & 305.2. ALL REINFORCED CONCRETE TO HAVE 28 DAY COMPRESSIVE STRENGTHS AS FOLLOWS:

ALL STRUCTURAL ELEMENTS $f_c = 4000$ PSI UNLESS NOTED OTHERWISE.

- COLUMNS & WALLS: $f_c = 4,000$ PSI
- BEAMS & ELEVATED SLAB: $f_c = 4,000$ PSI
- FOUNDATIONS: $f_c = 3,000$ PSI
- SLAB ON GRADE: $f_c = 3,600$ PSI

ALL CONCRETE MIX DESIGN SUBMITTALS SHALL INCLUDE A WRITTEN DESCRIPTION INDICATING WHERE EACH PARTICULAR MIX IS TO BE PLACED WITHIN THE STRUCTURE.

UNLESS NOTED OTHERWISE, NORMAL WEIGHT CONCRETE (145 PCF) SHALL BE USED WITH 3/4" MAX. (ELEVATED) OR 1" MAX. (SLAB-ON-GRADE) COARSE AGGREGATE CONFORMING TO ASTM C 33.

PROTECT FRESHLY POURED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD AND HOT TEMPERATURES. START CURING AS SOON AS FREE WATER HAS DISAPPEARED FROM THE CONCRETE SURFACE AFTER PLACING AND FINISHING. ALL CURING PROCEDURES TO FOLLOW ACI 308.

PROTECT CONCRETE FROM DAMAGE AND REDUCED STRENGTH CAUSED BY FROST, FREEZING ACTIONS AND LOW TEMPERATURES IN COMPLIANCE WITH ACI 308.

PROTECT CONCRETE FROM DAMAGE AND REDUCED STRENGTH CAUSED BY HIGH TEMPERATURES IN COMPLIANCE WITH ACI 308. UNIFORMLY COOL WATER AND AGGREGATES BEFORE MIXING TO OBTAIN A CONCRETE MIXTURE TEMPERATURE OF NOT GREATER THAN 90 DEGREES FAHRENHEIT AT POINT OF PLACEMENT.

WHERE NEW CONCRETE IS TO BE POURED ONTO EXISTING CONCRETE, ROUGHEN AND CLEAN SURFACE OF THE ADDING AREA AND COAT WITH SIKADUR 32 HI-MOD OR AN APPROVED BONDING AGENT.

NO ADDITIONAL WATER SHALL BE ADDED TO THE CONCRETE AT THE JOB SITE.

SEE ARCHITECTURAL, ELECTRICAL, MECHANICAL, FIRE PROTECTION AND PLUMBING DRAWINGS FOR DRIPS, CHAMFERS, REGISTS, SLOTS, SLEEVES, RUSTICATIONS, INSERTS AND OTHER EMBEDDED ITEMS NOT NOTED ON STRUCTURAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING & PLACING ALL EMBEDDED ITEMS SHOWN ON DRAWINGS & ADDITIONAL ITEMS NOTED IN THIS NOTE, AS REQUIRED BY OTHER TRADES.

ALL OPENINGS REQUIRED BY OTHER TRADES ARE TO BE COORDINATED (ARCH. & MECH. DWGS.) AND ARE SUBJECT TO STRUCTURAL ENGINEERING APPROVAL.

ALL OPENINGS IN CONCRETE SLABS SHALL BE LOCATED, SIZED AND REINFORCED (WITH THE EXCEPTION OF SMALL OPENINGS AND/OR SLEEVES OF A SIZE THAT WILL NOT DISPLACE OR INTERRUPT THE CONTINUITY OF THE REINFORCING) AS SHOWN ON RESPECTIVE FLOOR PLANS AND DETAILS. ALL OPENINGS IN SLAB LESS THAN 10" SHALL BE COORDINATED WITH ARCHITECTURAL & MEP DRAWINGS AND ARE SUBJECT TO STRUCTURAL ENGINEER'S APPROVAL. ANY ALTERATIONS REQUIRE APPROVAL OF THE STRUCTURAL ENGINEER. (SEE TYPICAL SLAB-OPENING DETAIL).

DEFECTIVE AREA IN CONCRETE INCLUDING, BUT NOT LIMITED TO, HONEY-COMBING, SPALLS, AND CRACKS WITH WIDTHS EXCEEDING 0.01 INCH SHALL BE REPAIRED. EXTENT OF DEFECTIVE AREA TO BE DETERMINED BY THE STRUCTURAL ENGINEER.

CONCRETE SLABS ON GRADE:

SHALL BE INSTALLED OVER MINIMUM 6 MIL. POLYETHYLENE VAPOR RETARDER WITH JOINTS LAPPED 6" AND SEALED OVER CLEAR, COMPACTED BARTH OR FILL WITH APPROVED CHEMICAL SOIL TREATMENT FOR PREVENTION OF SUBTERRANEAN TERMITES.

C.3. DENOTES CONCRETE SLAB "CONTROL JOINT" WHICH SHALL BE CUT INTO THE SLABS AT A DEPTH OF 1/4 TIMES THE THICKNESS OF THE SLAB WITHIN 12 HOURS OF PLACING THE CONCRETE. MAXIMUM SPACING OF INTERIOR SLAB CONTROL JOINTS, UNLESS NOTED OTHERWISE, SHALL BE 16'-0" (MAX.) IN EACH DIRECTION. CONSTRUCTION OF CONTROL JOINTS SHALL BE LOCATED SUCH THAT THE AREA CONTAINED IS 600 SQUARE FEET MAX., WITH A MAXIMUM RATIO OF LONG TO SHORT SIDE OF 2 TO 1..

SLAB CONSTRUCTION JOINTS SHALL BE USED IN PLACE OF CONTROL JOINTS WHERE NEEDED TO INTERRUPT A CONTINUOUS POUR. SLAB CONSTRUCTION JOINTS SHALL BE KEPT.

PLACEMENT OF WELDED WIRE REINFORCEMENT IN SLAB, WHERE SPECIFIED, SHALL BE AT CONSISTENT DEPTH OF 1"-2" FROM SLAB. WELDED WIRE REINFORCEMENT SHALL BE PROPERLY CHAIRED ABOVE GRADE. OVERLAP EACH REINFORCING SHEET TWO FULL PANELS AND TIE CROSS WIRES ON EACH SIDE. WELDED WIRE REINFORCEMENT SHALL BE SUPPLIED IN PLAT SHEETS.

REFER TO ARCHITECTURAL/MECHANICAL FOR SLAB FINISHES, SLAB DEPRESSIONS, THICKENED SLABS (IN ADDITION TO THICKENED SLABS NOTED ON STRUCTURAL DRAWINGS), ELEVATIONS, AND ENCASED OR EMBEDDED ITEMS.

RUMBING AND ELECTRICAL CONDUITS SHALL BE PLACED BELOW THE SLAB AND NOT WITHIN THE SLAB. VERTICAL PENETRATIONS ARE ALLOWED.

COLUMN BOX-OUTS SHALL BE USED TO ISOLATE AN ADEQUATE AREA AROUND COLUMN BASE PLATES TO PROVIDE FOR COLUMN PLACEMENT AND LEVELING. BOX-OUTS ARE TO BE CLEAN AND FREE OF DEBRIS TO TOP OF FOOTING PRIOR TO FILLING WITH CONCRETE. COLUMN BOX-OUTS ARE NOT REQUIRED IF STEEL COLUMNS ARE PLUMB AND FULLY GROUTED PRIOR TO PLACEMENT OF SLAB.

CONCRETE REINFORCING:

REINFORCING STEEL AND ACCESSORIES SHALL BE DETAILED IN ACCORDANCE WITH ACI 315-99 (MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES) AND CRSI M&E-01 (MANUAL OF STANDARD PRACTICE). (IRC 2009: CRSI MANUAL OF STANDARD PRACTICE, 28TH EDITION)

REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60 (UNLESS NOTED OTHERWISE).

UNLESS NOTED OTHERWISE, CONCRETE COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

1. CONCRETE CAST AGAINST EARTH 3"
2. FORMED CONCRETE EXPOSED TO EARTH OR WEATHER ---- 2"
3. WALLS 2 1/4"
4. COLUMNS/BEAMS 1 1/2"

SUBMIT SHOP DRAWINGS WHICH ADEQUATELY DEPICT THE REINFORCING BAR SIZES AND PLACEMENT. WRITTEN DESCRIPTION OF REINFORCEMENT WITHOUT ADEQUATE SECTIONS, ELEVATIONS AND DETAILS IS NOT ACCEPTABLE.

ALL WELDED REINFORCING STEEL SHALL CONFORM TO ASTM A-706, GRADE 60, AND BE USED ONLY WITH PRIOR PERMISSION FROM THE STRUCTURAL ENGINEER.

Sheet No. **S-001**

Project Name: **SAWFLY**

Project Address: **SAWFLY**

Project No.: **SAWFLY**

Scale: **PER PLAN**

Project Engineer: **SAWFLY**

Project Architect: **SAWFLY**

Project Designer: **SAWFLY**

Project Checker: **SAWFLY**

Project Approver: **SAWFLY**

Project Date: **SAWFLY**

Project Location: **SAWFLY**

Project Status: **SAWFLY**

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Project Permits:

GENERAL STRUCTURAL NOTES CONT.

ALL TRUSS SPLICES, INCLUDING SPLICES FROM BARS LABELED CONTINUOUS, SHALL CONFORM TO ACI 318-05. SPLICES SHALL BE CLASS D IN ACCORDANCE WITH ACI 318, UNLESS NOTED OTHERWISE.

WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A-95 AND BE LAPPED TWO FULL PANELS, TIED ON EACH SIDE AND SHALL BE SUPPLIED IN FLAT SHEETS.

LONGITUDINAL REINFORCING BARS IN FOOTINGS SHALL BE PLACED CONTINUOUS AT CORNERS AND INTERSECTIONS.

FOR EVERY VERTICAL OR HORIZONTAL BAR DISCONTINUED BY AN OPENING, ONE BAR (MIN. OF 2 BARS) SHALL BE ADDED @ SIDE OF OPENING (HALF TO EACH SIDE - TYPICAL).

PROVIDE CORNER BARS AT ALL CONTINUOUS REINFORCING BARS AT ALL MEMBERS (FOUNDATIONS, WALLS, SLABS, BEAMS AND OTHER MEMBERS).

PROVIDE CORBELS FROM FOUNDATIONS, THE SAME SIZE AND NUMBER AS THE VERTICAL WALL OR COLUMN REINFORCING, UNLESS NOTED OTHERWISE.

ALL CORBELS AND TERMINATING BARS SHALL HAVE A STANDARD 90 DEGREE HOOK.

ALL HORIZONTAL REINFORCING SHALL BE CONTINUOUS THROUGH CONTROL AND/OR CONSTRUCTION JOINTS AND AROUND CORNERS.

CONCRETE MASONRY

ALL MASONRY DESIGN AND CONSTRUCTION SHALL CONFORM TO ACI 530-05/ASCE 5-05/TMS 402-05 AND ACI 530.1-05/ASCE 6-05/TMS 602-05. CMU SHALL BE IN ACCORDANCE WITH ASTM C90-75, HIGH LOAD-BEARING (CMU), TYPE 1, GRADE N-1, NORMAL WEIGHT, WITH A MINIMUM COMPRESSIVE STRENGTH OF 1900 PSI (17m=1550 PSI).

CONCRETE MASONRY UNITS SHALL BE NORMAL WEIGHT AND CONFORM TO ASTM C-90. LAY UP RUNNING BOND UNLESS NOTED OTHERWISE. PM SHALL BE 1500 PSI (PER. CMU COMPRESSIVE STRENGTH = 1900 PSI). COMPLETE TEST REPORTS THAT DOCUMENT MINIMUM COMPRESSIVE STRENGTH SHALL BE SUBMITTED TO THE TESTING INSPECTOR.

GROUT SHALL BE IN ACCORDANCE WITH ASTM C476 WITH A MINIMUM OF 28 DAY COMPRESSIVE STRENGTH OF 3000 psi PER ASTM C1019. GROUT SHALL HAVE A MAXIMUM COURSE AGGREGATE SIZE OF 3/8" PLACED AT AN 8" TO 11" SLUMP. MORTAR SHALL CONFORM TO ASTM C270 AND TYPE M OR S. TYPE N MORTAR MAY BE USED IN BRICK VENEER.

JOINT REINFORCING - TRUSS TYPE, 9 GAUGE SPACED VERTICALLY AT 16" UNLESS NOTED OTHERWISE AND CONFORM TO ASTM A-82.

VERTICAL REINFORCING IN CONCRETE MASONRY (AS REQUIRED) SHALL BE DOWELED INTO THE FOUNDATION AND EXTEND INTO THE BOND BEAM AT THE FLOOR OR ROOF. PROVIDE MIN. 4" X 4" OPENING AT U-BLOCK FOR VERTICAL BAR.

PROVIDE REINFORCING IN CONCRETE MASONRY GROUTED CELLS AT EACH SIDE OF OPENING, EQUAL TO THE REINFORCING DISPLACED. MINIMUM REINFORCING SHALL BE (1) TYPICAL REINFORCEMENT BAR AT EACH SIDE UNLESS REINFORCED CONCRETE MBR IS CALLED OUT.

PROVIDE JOINT REINFORCING AT 8" AT MASONRY BELOW GRADE, 3 ROWS AT 8" AT TOP AND BOTTOM OF OPENINGS, (EXTEND 24" EACH SIDE) AND 3 ROWS AT 8" AT BOND BEAMS. UNLESS NOTED OTHERWISE, WHERE MULTIPLE RYTHES OF CONCRETE MASONRY ARE CONSTRUCTED AND/OR WHERE ADDITIONAL RYTHES OF CONCRETE MASONRY ARE ADDED TO EXISTING RYTHES, EACH ADJACENT RYTHE SHALL BE TIED TO THE NEXT RYTHE WITH TYPICAL JOINT REINFORCING OVER CONSTRUCTION FOR BOTH RYTHES) OR POST-INSTALLED TIES APPROVED BY ARCHITECT/ENGINEER (ADDITION TO EXISTING CONSTRUCTION) WITH SPACING/LOCATIONS MATCHING THE SPACING/LOCATIONS FOR TYPICAL JOINT REINFORCING DESCRIBED IN THE GENERAL NOTES.

CONCRETE MASONRY UNITS SHALL BE CUT BELOW CONCRETE BEAMS OR BOND BEAMS AS REQUIRED IN ORDER TO GET CONTINUOUS BEAM OR BOND BEAMS AT THE PROPER ELEVATION.

ALL CELLS BELOW GRADE AND SLAB ON GRADE SHALL BE GROUTED.

HORIZONTAL BEAMS, BOND BEAMS AND REINFORCING SHALL BE DISCONTINUOUS AT CONTROL JOINTS.

18" DEEP BOND BEAMS MAY BE CONSTRUCTED OF 8" U-BLOCK BELOW AND 8" STANDARD BLOCK ABOVE WITH BREAK AWAY TOP PART OF WEB.

SEE ARCHITECTURAL DRAWINGS FOR LAYING MASONRY AND LOCATION OF DRENCHES. BE RESPONSIBLE FOR THE DESIGN OF ALL FLASHING.

FACE SHELLS OF RED JOINTS SHALL BE FULLY MORTARDED. WEBS SHALL BE FULLY MORTARDED IN ALL COURSES OF PLASTERS, PIERS, COLUMNS, IN THE STARTING COURSE ON FOUNDATIONS WHERE ADJACENT CELLS/CAVITIES ARE TO BE GROUTED, & WHERE OTHERWISE NOTED.

WOOD FRAMING SPECIFICATIONS

ALL WOOD MEMBERS EXPOSED TO WEATHER OR IN CONTACT WITH MASONRY, CONCRETE OR SOIL SHALL BE PRESSURE-TREATED. PT LUMBER INDICATED IN SECTIONS PRESERVED WITH SODIUM BORATE (DOT-DISODIUM OCTABORATE TETRA HYDRATE). IF HOWEVER, ACQ OR NON-DOT BORATE PRESERVATIVE TREATMENT IS USED, ALL ATTACHED FASTENERS SHALL BE HOT DIPPED GALVANIZED. IF ACZA PRESERVATIVE IS USED, ALL ATTACHED FASTENERS SHALL BE STAINLESS STEEL.

PRE-ENGINEERED WOOD TRUSSES

SHALL BEAR THE SEAL OF AN ENGINEER IN THE STATE WHERE PROJECT IS BEING BUILT AND SHALL COMPLY WITH NTPA, TPI, AND AITC LOG. CONTRACTOR SHALL VERIFY THAT ADEQUATE TRUSS BEARING IS INSTALLED AT ALL TRUSSES AS INDICATED IN THE TRUSS SHOP DRAWINGS. ALL TRUSS-TO-TRUSS CONNECTIONS AND TRUSS PROFILES ARE THE RESPONSIBILITY OF THE DELEGATED TRUSS ENGINEER. ALL TRUSSES SHALL HAVE TEMPORARY BRACING PER 'COMMENTARY' AND RECOMMENDATION FOR HANDLING, INSTALLING & BRACING METAL PLATE CONNECTED WOOD TRUSSES, H35-91," AT MULTIPLE STRAP CONNECTIONS. SPREAD STRAPS TO AVOID NAILING CONFLICTS THROUGH TRUSS. WHEN USING (2) STRAPS ON SINGLE PLY TRUSSES, PLACE STRAPS DIAGONALLY ACROSS DEL. TOP PLATE FROM SA. OTHER.

GENERAL STRUCTURAL NOTES CONT.

ROOF COVERING SPECIFICATIONS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF THE ROOF COVERING SYSTEM. ASPHALT SHINGLES SHALL COMPLY WITH ASTM D3161 AND BE INSTALLED ACCORDING TO THE MANUFACTURER'S REQUIREMENTS.

CLAY AND TILE ROOFS SHALL BE INSTALLED PER THE "CONCRETE AND CLAY ROOF TILE INSTALLATION MANUAL," AND THE MANUFACTURER'S REQUIREMENTS. STANDING SEAM METAL ROOFS SHALL COMPLY WITH ASTM F1514 AND BE INSTALLED ACCORDING TO THE MANUFACTURER'S REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL METAL FLASHING AND VALLEY MATERIALS.

TIERS FRAMED BEARING WALL NOTES

- 1. DOUBLE TOP PLATES AND SILL PLATES SHALL BE SYP#2.
2. PLATES IN CONTACT WITH CONCRETE OR CMU SHALL BE P.T.
3. SILL PLATE ANCHORS -W/6" EPOXY ANCHORS @ 24" O.C. MAX
4. STUD SIZE & GRADE PER STRUCTURAL PLANS.
5. MIN. OF 5/8" UTILITY GRADE FOR INTERIOR NON-BRM. TOP PLATES.
6. USE SYP#2 OR BETTER FOR ALL WALLS IN THESE PLANS, U.O.N.
7. SPACE STUDS AT 24" O.C. IN NON-LOAD BEARING WALLS.
8. ALL WALLS SHALL BE BALLOON-FRAMED FULL HEIGHT TO ROOF OR FLOOR BEARING ELEVATION, UNLESS NOTED OTHERWISE ON PLAN.

WOOD FRAMING SPECIFICATIONS

EACH PIECE OF STRUCTURAL LUMBER, SHEATHING AND TIMBER SHALL BE MARKED WITH THE GRADE BY SUCH CONSISTENT AND RELIABLE ORGANIZATION WHOSE REGULAR BUSINESS IS TO ESTABLISH LUMBER GRADES.

ALL LUMBER, EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE, SHALL BE WELL SIZED AND SURFACED ON (4) SIDES. ALL SHALL BE STRAIGHT STOCK, FREE FROM WARP OR CUR, AND SINGLE LENGTH PIECES. SPLICES WILL NOT BE PERMITTED EXCEPT WHERE SPECIFICALLY SO DETAILED OR AS DIRECTED BY THE ENGINEER.

ROUGH HARDWARE, JOIST HANGERS, STRAPS, HOLDDOWS, ETC. SHALL BE MANUFACTURED BY "SIMONS'" COMPANY OR APPROVED. EQUAL. THE MAXIMUM SIZE AND NUMBER OF FASTENERS SPECIFIED BY THE MANUFACTURER SHALL BE USED UNLESS NOTED OTHERWISE.

BLOCKING AND FIRESTOPPING TO BE INSTALLED AS REQUIRED TO SUPPORT ALL ITEMS OF FINISH SUCH AS BALLOONHEADS AND BUCKS. PROVIDE FIREBLOCKING TO CUT OFF ALL CONCEALED DRAFT OPENINGS, BOTH VERTICAL AND HORIZONTAL, BETWEEN CEILING AND FLOOR AREAS (AS REQUIRED BY BUILDING OFFICIAL AND ARCHITECT).

BOLTS (IF APPLICABLE) SHALL BE INSTALLED IN HOLES BORED WITH A BIT 1/32" LARGER THAN THE DIAMETER OF THE BOLT. BOLTS AND NUTS BEATING ON WOOD SHALL HAVE CUT STEEL WASHERS UNDER HEADS AND NUTS. NUTS SHALL BE PULLED TIGHT AND AGAIN CHECKED AND TIGHTENED JUST PRIOR TO ENCLOSING BOLTED MEMBERS. COUNTER BORE FOR BOLTED HEADS OR NUTS ONLY WHERE SO INDICATED ON THE DRAWINGS AND THEN TO SUFFICIENT DEPTH TO HOUSE THE BOLT. HEAD OR NUT AND WASHER, CUT OFF EXCESSIVE BOLT PROJECTION WHERE NECESSARY. LOCK THREADS TO PREVENT LOOSENING.

COMMON NAILS SHOULD BE USED WHEN NAILING IS SPECIFIED ON THESE PLANS (U.O.N.), SUCH AS AT SHEARWALLS AND OSANRAGHS. ALL OTHER NAILING MAY BE OF THE "BOX OR SINKER" TYPE.

ALL ROUGH CARPENTRY WILL PRODUCE JOINTS TRUE AND TIGHT AND WELL NAILED WITH MEMBERS ASSEMBLED IN ACCORDANCE WITH THE DRAWINGS AND ALL PERTINENT BUILDING CODES. THE SHIMMING OF SILLS, JOISTS SHORT STUDS, TRIMMERS, HEADERS OR OTHER FRAMING MEMBERS SHALL NOT BE PERMITTED. ALL WALLS AND PARTITIONS SHALL BE STRAIGHT, PLUMB AND ACCURATELY LOCATED. CAREFULLY SELECT ALL STRUCTURAL MEMBERS. INDIVIDUAL PIECES SHALL BE SELECTED SO THAT KNOTS AND OBVIOUS MINOR DEFECTS WILL NOT INTERFERE WITH THE PLACING OF BOLTS, OR PROPER NAILING OR THE MAKING OF SOUND CONNECTIONS. LUMBER MAY BE REJECTED BY THE ENGINEER FOR EXCESSIVE WARP, TWIST, BOW OR CROOK, YELDOW, FUNGUS OR MOLD AS WELL AS FOR IMPROPER GRADE. MARKINGS, DEFECTS WHICH WILL RENDER A PIECE UNABLE TO SERVE ITS INTENDED FUNCTION SHALL BE DISCARDED.

WHERE "LVL" MEMBERS ARE INDICATED ON THE PLANS AND SCHEDULES THEY SHALL BE MANUFACTURED BY TRUSS-JOIST FACILITATOR OR BE AN APPROVED EQUAL PRODUCT. MEMBERS SHOWN ON THE PLANS AND SCHEDULES ARE DETERMINED FROM MANUFACTURER SUPPLIED INFORMATION AND SHOULD BE REVIEWED FOR COMPLIANCE BY THE MANUFACTURER'S CIVIL OR STRUCTURAL ENGINEER. LOADING INFORMATION MAY BE PROVIDED UPON REQUEST. NOTCHES, HOLES OR CUTS SHOWN IN THE TYPICAL DETAILS ARE ALLOWED WITHOUT ADDITIONAL APPROVAL. ALL OTHER MEMBER MODIFICATIONS ARE TO BE APPROVED BY THE STRUCTURAL ENGINEER.

ALL WOOD MEMBERS EXPOSED TO WEATHER OR IN CONTACT WITH MASONRY, CONCRETE OR SOIL SHALL BE PRESSURE-TREATED. PT LUMBER INDICATED IN SECTIONS PRESERVED WITH SODIUM BORATE (DOT-DISODIUM OCTABORATE TETRA HYDRATE). IF HOWEVER, ACQ OR NON-DOT BORATE PRESERVATIVE TREATMENT IS USED, ALL ATTACHED FASTENERS SHALL BE HOT DIPPED GALVANIZED. IF ACZA PRESERVATIVE IS USED, ALL ATTACHED FASTENERS SHALL BE STAINLESS STEEL.

METAL CONNECTIONS AND FASTENERS

ALL EXPOSED METAL STRAPS AND HANGERS SHALL BE GALVANIZED G185 (1.85 OZ/FT^2) OR BETTER.

HANGER AND STRAPS INSTALLED OVER ACQ OR ACZE PRESSURE TREATED LUMBER SHALL BE STAINLESS STEEL.

ALL EXPOSED WOOD FASTENERS SHALL BE HOT DIPPED GALVANIZED TO MEET THE SPECIFICATIONS OF ASTM153 OR BETTER.

FASTENERS INSTALLED INTO ACQ OR ACZE PRESSURE TREATED LUMBER SHALL BE STAINLESS STEEL.

GENERAL STRUCTURAL NOTES CONT.

SHEATHING SPECIFICATIONS:

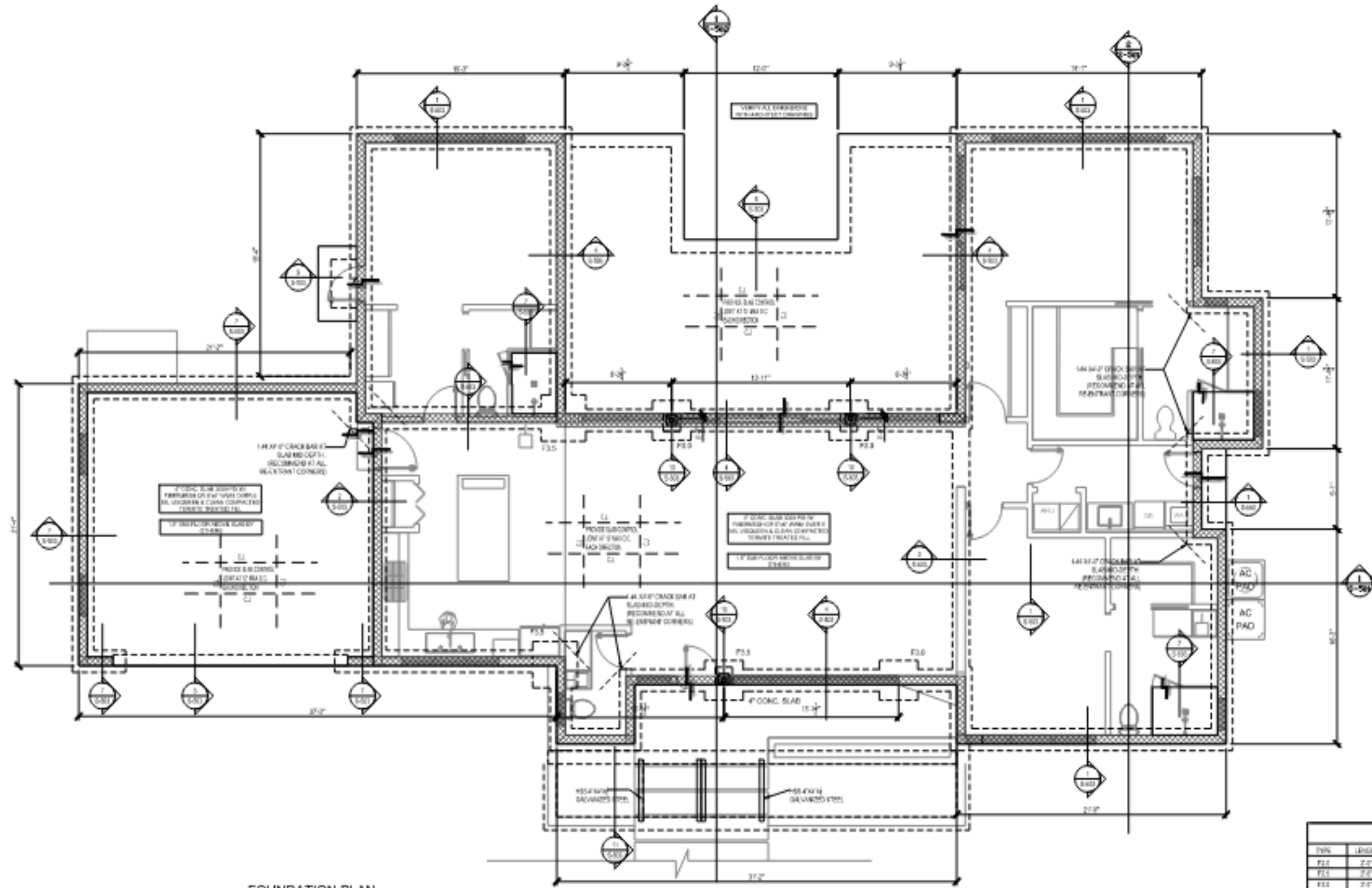
WOOD ROOF - MIN. 3/8", (40/20) APA RATED GR. PLY OSB SHEATHING, NAILED w/ 8.120x3" RING SHANK NAILS @ 4" O.C. ALONG PANEL EDGE & 4" O.C. IN THE PANEL FIELD (AT GABLE ENDS DECREASE EDGE NAIL SPACING TO 4" O.C. WITHIN 4'-0" OF ROOF EDGE).

WALL - MIN. 3/8", 24/16, APA RATED OSB OR PLYWOOD SHEATHING. FASTENED w/ 80 @ 6" O.C. EDGE AND 6" O.C. FIELD. SEE PLAN FOR INCREASED NAILING REQUIREMENTS AT SHEARWALLS

LIST OF ABBREVIATIONS

Table with 6 columns: Abbreviation, Description, Abbreviation, Description, Abbreviation, Description. Includes terms like ACQ, ACZE, ARCH, BRUCE, BRK, etc.

Vertical sidebar containing 'STRUCTURAL NOTES', 'SAMPLE' labels, a QR code, a circular seal, and a table with columns for 'Date' and 'Revised'.



FOUNDATION PLAN
SCALE: 1/4" = 1' 0"

FOOTING SCHEDULE AND NOTES				
TYPE	LENGTH	WIDTH	DEPTH	BOTTOM BARS
F3.0	2'-0"	2'-0"	1'-0"	3#6 @ 12" O.C.
F3.1	2'-0"	2'-0"	1'-0"	3#6 @ 12" O.C.
F3.2	2'-0"	2'-0"	1'-0"	3#6 @ 12" O.C.
F3.3	2'-0"	2'-0"	1'-0"	3#6 @ 12" O.C.
F3.4	2'-0"	2'-0"	1'-0"	3#6 @ 12" O.C.
F4.0	4'-0"	4'-0"	1'-0"	4#6 @ 12" O.C.

- FOUNDATION NOTES**
- ALL THE CONCRETE WORK SHALL HAVE COMPRESSIVE STRENGTH NOT LESS THAN 3000 PSI @ 28 DAYS.
 - ALL THE REINFORCEMENT ARE PROVIDED AS SHOWN WITH MINIMUM OVERLAP OF 36".
 - THIS FOUNDATION IS ONLY GOOD FOR THE USE WITH TRUSS UNLESS CHANGES BY MANUFACTURER REQUIRES ADDITIONAL REVIEW BY E.S.E.
 - NO CONSTRUCTION FROM TO THE REVERSE OF TRUSSES FROM MANUFACTURED BY ESE.

FOUNDATION PLAN

Project Name: SAMPLE
Project Address: SAMPLE
Project No.: SAMPLE

Scale: PER PLAN

Sheet No.: S-101

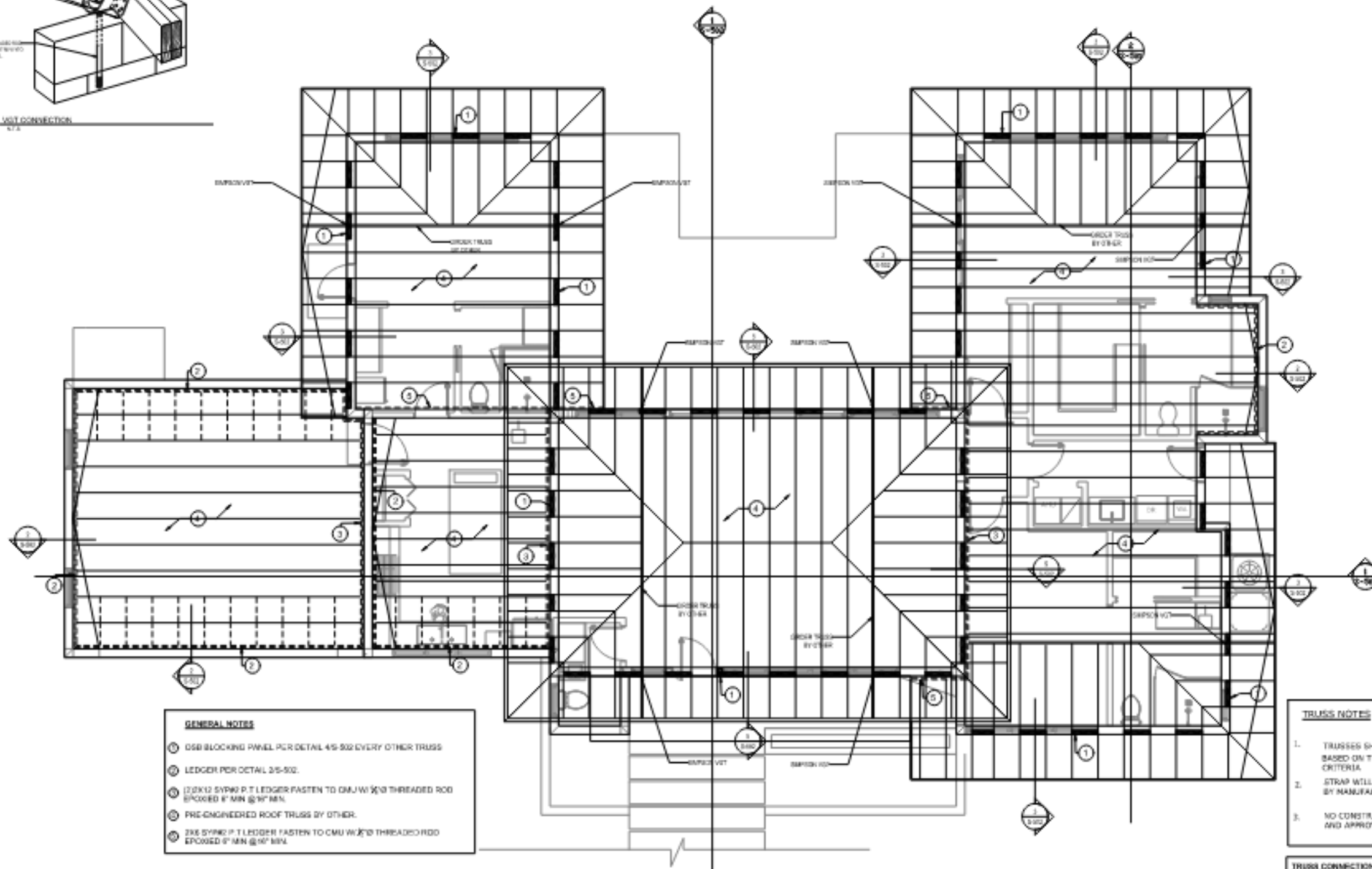
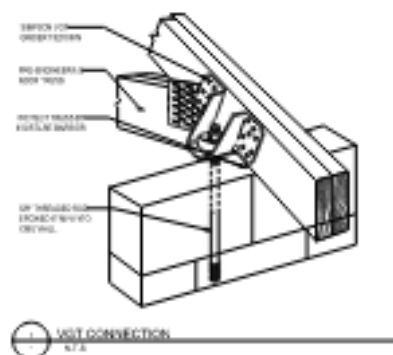
DATE: 10/20/2023

DESIGNED BY: [Signature]

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DATE: 10/20/2023

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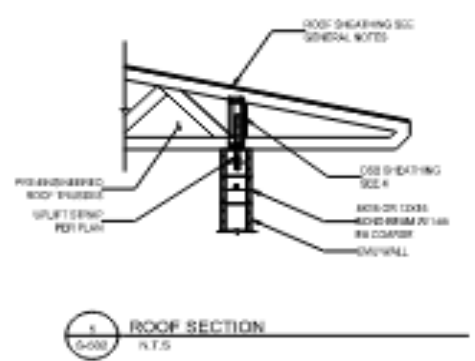
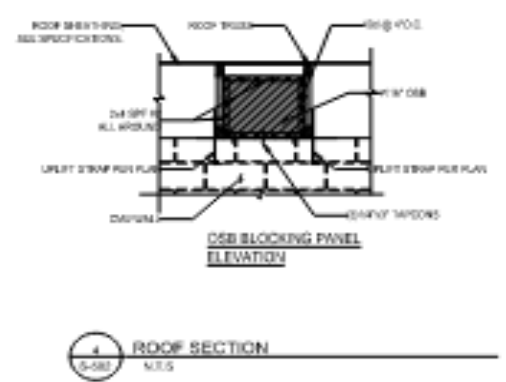
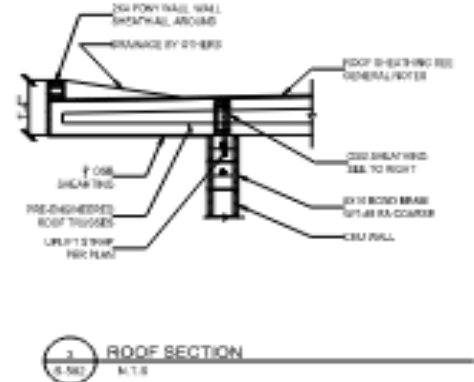
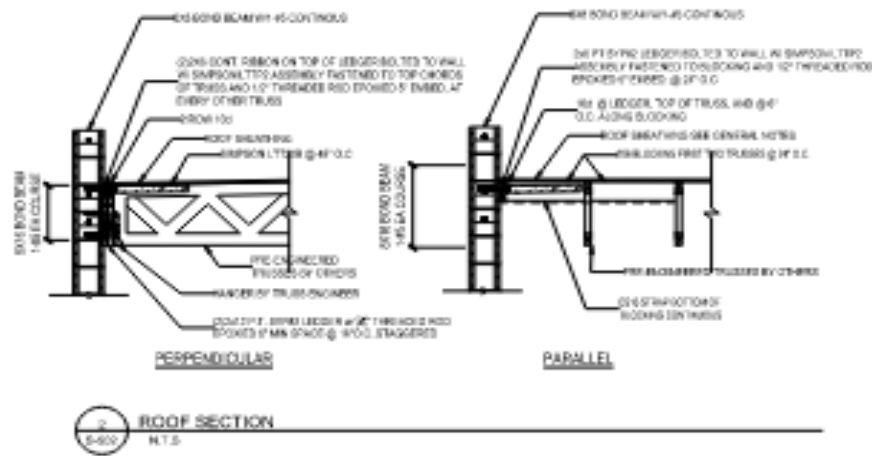
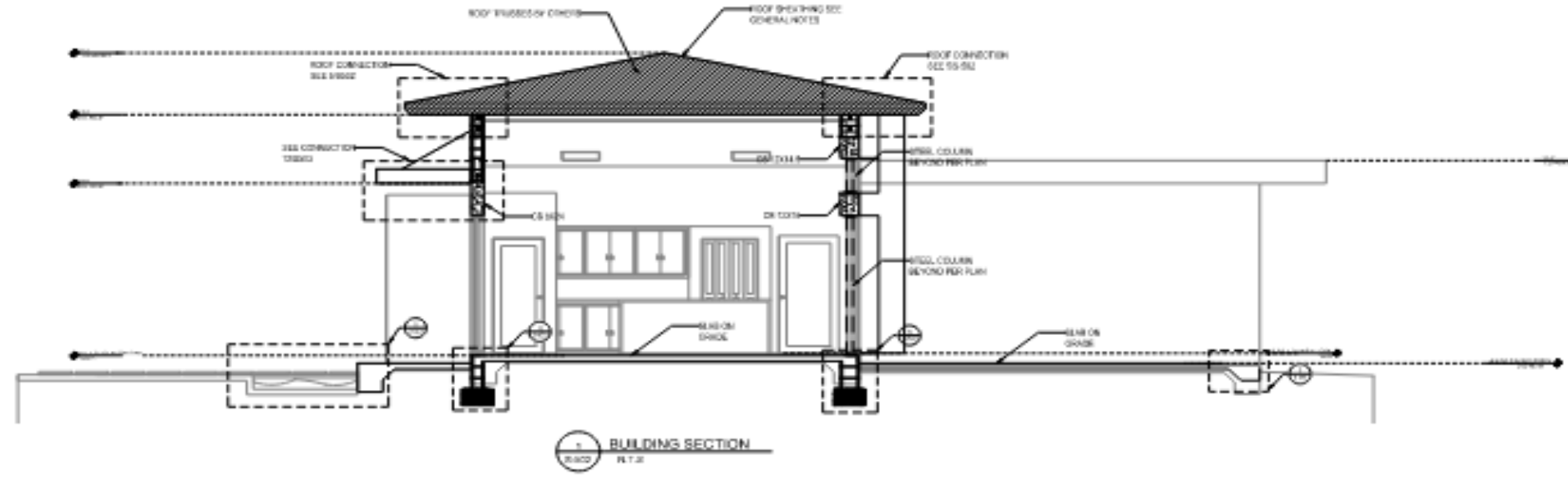
- GENERAL NOTES**
- 1 OSB BLOCKING PANEL PCR DETAIL 4/5-502 EVERY OTHER TRUSS
 - 2 LEDGER PCR DETAIL 3/5-502
 - 3 (2)X12 SYDRO P.T. LEDGER FASTEN TO CMU W/ 3/8" THREADED ROD EPOXIED 8" MIN @ 16" MIN.
 - 4 PRE-ENGINEERED ROOF TRUSS BY OTHER
 - 5 2X6 SYDRO P.T. LEDGER FASTEN TO CMU W/ 3/8" THREADED ROD EPOXIED 8" MIN @ 16" MIN.

ROOF TRUSS PLAN
SCALE: 1/4" = 1'-0"

- TRUSS NOTES**
1. TRUSSES SHALL BE DESIGNED BY TRUSS MANUFACTURER BASED ON THE DESIGN CODES, WIND SPEED AND EXPOSURE CRITERIA
 2. STRAP WILL BE CALLED OUT AFTER THE RECEIVE OF TRUSS BY MANUFACTURER
 3. NO CONSTRUCTION UNTIL THE BOR REVIEW THE TRUSS PLAN AND APPROVE IT.

- TRUSS CONNECTION NOTES**
- TRUSS TO MASONRY w/ UPLIFT UP TO 1,810# USE (1) SIMPSON HETA20 OR EQ. U.N.O.
 - TRUSS TO MASONRY w/ UPLIFT FROM 1,811# TO 2,365# USE (2) SIMPSON HETA20 OR EQ. U.N.O.
 - TRUSS TO WOOD w/ UPLIFT UP TO 1,310# USE (1) SIMPSON HTS20 OR EQ. U.N.O.
 - TRUSS TO WOOD w/ UPLIFT FROM 1,311# TO 2,620# USE (2) SIMPSON HTS20 OR EQ. U.N.O.
 - GIRDER TO MASONRY w/ UPLIFT FROM 1,811# TO 2,365# USE (2) SIMPSON HETA20 OR EQ. U.N.O.
 - GIRDER TO MASONRY w/ UPLIFT FROM 2,366# TO 4,940# USE (1) VGT OR EQ. U.N.O.
 - GIRDER TO MASONRY w/ UPLIFT FROM 4,941# TO 7,185# USE (2) VGT OR EQ. U.N.O.
- ***IF HETA20 IS MISSED OR SKIPPED ON MASONRY, (2) HTSM20 MAY BE USED.

Date: 08/10/19	TRUSS PLAN	Sheet No.: S-201	
Project Name: SAMPLE	Project Address: SAMPLE	Scale: PFR PLAN	Project No.: SAMPLE
No.	Rev.	Date	By
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Date: 08/10/10 Title: STRUCTURAL DETAILS	
Project Name: SAMPLE	Sheet No: S-502
Project Address: SAMPLE	Scale: PER PLAN
Project No.: SAMPLE	Date:
Design:	Check:
Drawn:	Approved:
Date:	Date:
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