GENERAL NOTES:

1. THE DESIGN AND CONSTRUCTION OF THIS PROJECT IS GOVERNED BY THE 2016 EDITION OF THE UNIFORM CODE OF NEW YORK STATE (2016 NYS) WHICH ADOPTS THE 2015 EDITION OF THE INTERNATIONAL BUILDING CODE (2015 IBC) AND ITS REFERENCED STANDARDS INCLUDING ASCE STANDARD (ASCE/SEI 7-10) MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES. WOOD FRAMING SHALL BE IN ACCORDANCE WITH SECTIONS 23 "WOOD", 2303.4 "TRUSSES" AND SECTION 2308 "CONVENTIONAL LIGHT FRAME CONSTRUCTION" OF THE 2015 IBC AND BEST PRACTICES.

2. THIS DRAWING PACKAGE IS INTENDED TO DEPICT THE STRUCTURAL SYSTEMS (ROOF FRAMING AND FOUNDATION DESIGN) AND IS PART OF A LARGER BUILDING DRAWING PACKAGE. THERE ARE SECTIONS AND DETAILS ON THE ARCHITECTURAL PACKAGE WHICH SPECIFY ASPECTS OF THE STRUCTURAL SYSTEM (WALL FRAMING, HEADERS, ETC.).

3. CONTRACTOR TO BE RESPONSIBLE FOR COORDINATING DETAILS AND ACCURACY OF WORK WITH OTHER TRADES; FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS; FOR SELECTING FABRICATION PROCESSES; FOR TECHNIQUES, MEANS AND METHODS OF ASSEMBLY; AND FOR PERFORMING WORK IN A SAFE AND SECURE MANNER.

4. CONTRACTOR TO BE RESPONSIBLE FOR STRENGTH AND STABILITY OF STRUCTURE DURING CONSTRUCTION AND SHALL PROVIDE TEMPORARY SHORING, BRACING AND OTHER ELEMENTS REQUIRED TO MAINTAIN STABILITY UNTIL STRUCTURE IS COMPLETE AS REQUIRED PER ASCE-37, BUILDING COMPONENT SAFETY INFORMATION (BCSI) PRODUCED BY WTCA AND THE TRUSS PLATE INSTITUTE AND OTHER APPLICABLE STANDARDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH THE WORK REQUIRED IN CONSTRUCTION DOCUMENTS AND REQUIREMENTS FOR EXECUTING IT PROPERLY.

5. MEANS AND METHODS OF CONSTRUCTION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR INCLUDING BUT NOT LIMITED TO TEMPORARY BRACING/ SHORING, RIGGING, TEMPORARY WORK PLATFORMS, DE-WATERING, CREATING AND MAINTAINING STAGING AND TEMPORARY WORK AREAS ETC. CONTRACTOR SHALL SUBMIT PLANS FOR ALL TEMPORARY EARTH WORK STABILITY INCLUDING BUT NOT LIMITED TO DE-WATERING AND SLOPE/ VERTICAL CUT STABILITY.

6. CONTRACTOR TO HAVE SOLE RESPONSIBILITY TO NOTIFY ENGINEER OF ANY BUILDING SYSTEM, MECHANICAL, ELECTRICAL, OR PLUMBING SYSTEM LOAD IMPOSED ONTO THE STRUCTURE THAT DIFFERS FROM, OR THAT IS NOT DOCUMENTED ON THE ORIGINAL CONTRACT DOCUMENTS (BUILDING SYSTEM, STRUCTURAL, MECHANICAL, ELECTRICAL, OR PLUMBING DRAWINGS).

7. IN THE CASE OF DISCREPANCIES BETWEEN GENERAL NOTES, SPECIFICATIONS, PLAN/DETAILS, REFERENCE STANDARDS, OR BETWEEN DISCIPLINES THE ENGINEER SHALL DETERMINE WHICH SHALL GOVERN. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

8. CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE. CONFLICTS BETWEEN DRAWINGS AND ACTUAL SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH WORK.

9. CONTRACTOR SHALL DETERMINE THE LOCATION OF ADJACENT UNDERGROUND UTILITIES PRIOR TO EARTHWORK, FOUNDATIONS, SHORING, AND EXCAVATION. UTILITY INFORMATION SHOWN ON DRAWINGS AND DETAILS IS APPROXIMATE AND NOT NECESSARILY COMPLETE.

10. DETAILS ENTITLED OR NOTED AS "TYPICAL" APPLY NOT ONLY WHERE SPECIFICALLY INDICATED OR REFERENCED, BUT ALSO IN ALL OTHER CASES WHERE THE NATURE OF THE CONSTRUCTION REQUIRES THEIR USE. DETERMINE APPLICABILITY OF TYPICAL DETAILS FROM DESCRIPTIVE TITLES OR FROM THE SIMILARITY OF A CONSTRUCTION CONDITION TO ANOTHER CONDITION WHERE THE DETAIL IS SPECIFICALLY INDICATED OR REFERENCED.

11. USE WATER MIST, TEMPORARY ENCLOSURES AND OTHER SUITABLE METHODS TO LIMIT THE SPREAD OF DUST AND DIRT. COMPLY WITH GOVERNING ENVIRONMENTAL PROTECTION REGULATIONS. DO NOT USE WATER WHEN IT MAY DAMAGE EXISTING CONSTRUCTION; DO NOT CAUSE CAUSING ICING, FLOODING, OR TRANSPORTATION OF POLLUTANTS.

12. ALL CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE SAFETY CODES. APPLICABLE SAFETY CODES MEAN THE LATEST EDITION INCLUDING ANY AND ALL AMENDMENTS, REVISIONS, AND ADDITIONS THERE TO, TO THE FEDERAL DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH STANDARDS (OSHA), AND APPLICABLE LOCAL SAFETY AND HEALTH REGULATIONS AND BUILDING CODES FOR CONSTRUCTION IN THE STATE OF NEW YORK IN ADDITION TO ANY AND ALL "HOUSE RULES" AS REQUIRED BY OWNER.

SOILS AND FOUNDATIONS NOTES:

1. CONFORM TO 2016NYS/2015IBC CHAPTER 18 "SOILS AND FOUNDATIONS".

2. THE FOUNDATION DESIGN IS BASED UPON THE SITE GEOTECHNICAL REPORT PREPARED BY CHAZEN COMPANIES, DATED APRIL 20, 2017.

3. THE ENGINEER SHALL VERIFY SUB-SURFACE CONDITIONS DURING EXCAVATION. ALL EXCAVATIONS IN AREAS SUBJECT TO BUILDING LOADS TO BE BACKFILLED WITH SUITABLE ON-SITE MATERIAL AND COMPACTED TO 95-PERCENT OF THE SOILS STANDARD PROCTOR DENSITY.

4. FILL AROUND THE STRUCTURE SHALL PITCH AWAY TO ACCOMMODATE POSITIVE DRAINAGE.

5. ALL FILL MATERIAL SHALL BE PLACED IN 12-INCH (MAXIMUM) LIFTS. PLACEMENT MOISTURE SHOULD BE CLOSE TO THE OPTIMUM VALUE.

6. STRUCTURAL FILL SHALL BE A CLEAN WELL-GRADED MATERIAL COMPACTED TO 95% OF THE MATERIALS STANDARD PROCTOR DENSITY. THE MATERIAL SHALL BE LESS THAN 2-INCHES AND HAVE 10-PERCENT OR LESS PASSING THE #200 SIEVE.

7. THE FOLLOWING DESIGN CRITERIA WAS USED FOR DESIGN BASED PRESCRIPTIVE DESIGN VALUES ALLOWED BY THE BCNYS AND UPON AN EXPLORATORY AND INVESTIGATIVE PROGRAM OVERSEEN CHAZEN GEOTECHNICAL ENGINEERING TEAM:
   - 7.1. SOIL SITE CLASS.......................................B
   - 7.2. ALLOWABLE BEARING CAPACITY (qa).......................8,000 PSF
   - 7.3. FOUNDATION TYPE......SHALLOW CONCRETE FOUNDATION SYSTEM SUPPORTED ON ROCK

8. FOUNDATION DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL, CIVIL, LANDSCAPE ARCHITECTURE, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, HOLES, INSERTS, ETC. TO BE INSTALLED IN THE CONCRETE WORK.

9. CONTRACTOR SHALL PREVENT SURFACE AND GROUND WATER FROM ENTERING EXCAVATIONS FROM PONDING ON PREPARED SUBGRADES, AND FROM FLOODING PROJECT SITE AND SURROUNDING AREA. DO NOT PLACE FOUNDATIONS IN WATER OR ON FROZEN GROUND.

10. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TEMPORARY OR PERMANENT EMBANKMENTS, EXCAVATIONS, SHEETING, SHORING OR OTHER EARTH RETAINING SYSTEMS REQUIRED FOR THE MEANS AND METHODS OF CONSTRUCTION (IN ACCORDANCE WITH ALL SAFETY LAWS AND REGULATIONS INCLUDING OSHA) NOT SPECIFICALLY SHOWN ON THE CONTRACT DOCUMENTS.

SUBMITTALS:

1. THE CONCRETE SUBMITTALS LISTED IN THE CONCRETE SECTIONS OF THE SPECIFICATIONS, INCLUDING CONCRETE MIX DESIGN, REINFORCING BAR SHOP DRAWINGS.

2. THE WOOD FRAMING SUBMITTALS IN THE WOOD SECTIONS OF THE SPECIFICATIONS, INCLUDING WOOD SPECIES AND GRADE AND HARDWARE / FASTENERS DATA SHEETS.

3. DELEGATED DESIGN SUBMITTAL FOR THE ENGINEERED-WOOD TRUSSES, INCLUDING CALCULATION PACKAGE, LAYOUT AND CONNECTION DETAILS AND ANY INFORMATION REQUIRED FOR TEMPORARY/ERECTION STABILITY CERTIFIED BY A NEW YORK STATE PROFESSIONAL ENGINEER.

4. REFER TO THE PROJECT MANUAL AND OTHER DRAWING SHEETS IN THIS CONSTRUCTION DOCUMENT PACKAGE FOR ADDITIONAL SUBMITTAL REQUIREMENTS.

CAST-IN-PLACE CONCRETE NOTES:

1. CONFORM TO THE FOLLOWING REFERENCE STANDARDS:
   - 1.1. ACI 301 "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE"
   - 1.2. ACI 302 "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION"
   - 1.3. 2016NYS/2015IBC CHAPTER 19 - CONCRETE
   - 1.4. ACI 318-11 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"

2. CONTRACTOR TO KEEP A COPY OF ACI FIELD REFERENCE MANUAL, SP-15, "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE (ACI 301) WITH SELECTED ACI AND ASTM REFERENCES".

3. CONFORM TO ACI 301 SECTION 4 "CONCRETE MIXTURES".

4. CONFORM TO ACI 301 SECTION 4.2.1 "MATERIALS" FOR REQUIREMENTS FOR CEMENTITIOUS MATERIALS, AGGREGATES, MIXING WATER AND ADMIXTURES.

5. PROVIDE ALL SUBMITTALS REQUIRED BY ACI 301 SECTION 4.1.2. SUBMIT MIX DESIGNS FOR EACH MIX USED ON THE PROJECT.

6. ALL STRUCTURAL CONCRETE USED IN FOUNDATIONS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 4,000PSI*. ALL EXTERIOR CONCRETE SLABS AND SIDEWALKS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 5,000PSI* AND A WATER TO CEMENT RATIO (W/C) OF LESS THAN 0.40. ALL COARSE AGGREGATE SHALL BE 3/4" MAX. ALL MIX WATER SHALL BE POTABLE.
   *CONCRETE EXPOSED TO THE WEATHER (INCLUDING CONCRETE SUBJECT TO FREEZE/ THAW DURING CONSTRUCTION) SHALL BE AIR ENTRAINED WITH AIR CONTENT = 6% ± 1.5%. THE MINIMUM COMPRESSIVE STRENGTH FOR INTERIOR SLABS ON GRADE (NOT EXPOSED TO THE ELEMENTS) CAN BE REDUCED TO 3500PSI CONCRETE (WITHOUT AIR).

7. ALL EMBEDDED ITEMS SHALL BE PROPERLY PLACED, ACCURATELY POSITIONED, AND MAINTAINED SECURELY IN PLACE PRIOR TO AND DURING CONCRETE PLACEMENT.

8. NO CONCRETE SHALL BE PLACED UNTIL THE CONTRACTING OFFICER HAS INSPECTED ALL EMBEDDED WORK, INCLUDING REINFORCEMENT.

9. ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED ¾" OR AS INDICATED.

10. ALUMINUM SHALL NOT BE PLACED IN DIRECT CONTACT WITH CONCRETE UNLESS EFFECTIVELY COATED OR COVERED TO PREVENT ALUMINUM-CONCRETE REACTION AND ELECTROLYTIC ACTION BETWEEN ALUMINUM AND STEEL.

11. CONFORM TO ACI 301 SECTION 2 "FORMWORK AND FORM ACCESSORIES". REMOVAL OF FORMS SHALL CONFORM TO SECTION 2.3.2 EXCEPT STRENGTH INDICATED IN SECTION 2.3.2.5 SHALL BE 0.75 f'c.

12. MEASURING, MIXING AND DELIVERY SHALL CONFORM TO ACI 301 SECTION 4.3.

13. HANDLING, PLACING, CONSTRUCTING AND CURING SHALL CONFORM TO ACI 301 SECTION 5.

14. CURE CONCRETE IN ACCORDANCE WITH ACI 301.

15. CONSTRUCTION JOINTS SHALL CONFORM TO ACI 301 SECTIONS 2.2.2.5, 5.1.2.3a, 5.2.2.1 AND 5.3.2.6. CONSTRUCTION JOINTS SHALL BE LOCATED AND DETAILED AS ON CONSTRUCTION DRAWINGS. USE OF AN ACCEPTABLE ADHESIVE, SURFACE RETARDANT, PORTLAND CEMENT GROUT OR ROUGHENING THE SURFACE IS NOT REQUIRED UNLESS SPECIFICALLY NOTED ON THE DRAWINGS.

16. POSITION AND SECURE IN PLACE EXPANSION JOINT MATERIAL, ANCHORS AND OTHER STRUCTURAL AND NON-STRUCTURAL EMBEDDED ITEMS BEFORE PLACING CONCRETE. CONTRACTOR SHALL REFER TO MECHANICAL, ELECTRICAL, PLUMBING AND BUILDING SYSTEMS DRAWINGS AND COORDINATE OTHER EMBEDDED ITEMS.

17. USE 7,000 PSI NON-SHRINK GROUT UNDER COLUMN BASE PLATES.

18. POST-INSTALLED ANCHORS TO CONCRETE: ANCHOR LOCATION, TYPE, DIAMETER AND EMBEDMENT SHALL BE AS INDICATED ON DRAWINGS. ANCHORS SHALL BE INSTALLED AND INSPECTED IN STRICT ACCORDANCE WITH APPLICABLE ICC EVALUATION SERVICE REPORT (ESR). SPECIAL INSPECTION SHALL BE PER THE TESTS AND INSPECTIONS SECTION.

19. OWNER SHALL RETAIN AN INDEPENDENT TESTING LAB TO OBTAIN SAMPLES AND CONDUCT TESTS IN ACCORDANCE WITH ACI 301 SECTION 1.6.4.2. ADDITIONAL SAMPLES MAY BE REQUIRED TO OBTAIN CONCRETE STRENGTHS AT ALTERNATE INTERVALS THAN SHOWN BELOW.
   - 19.1. CURE 5 CYLINDERS FOR 28-DAY TEST AGE. TEST 2 CYLINDERS AT 7 DAYS OR AT CONTRACTOR REQUEST, TEST 2 CYLINDERS AT 28 DAYS, AND HOLD 1 CYLINDER IN RESERVE FOR USE AS ENGINEER DIRECTS. AFTER 56 DAYS, UNLESS NOTIFIED BY ENGINEER TO THE CONTRARY, RESERVE CYLINDER MAY BE DISCARDED WITHOUT BEING TESTED FOR SPECIMENS MEETING 28-DAY STRENGTH REQUIREMENTS.
   - 19.2. ACCEPTABLE STRENGTH IS SATISFACTORY WHEN:
     1. THE AVERAGES OF ALL SETS OF 3 CONSECUTIVE TESTS EQUAL OR EXCEED THE SPECIFIED STRENGTH.
     2. NO INDIVIDUAL TEST FALLS BELOW THE SPECIFIED STRENGTH BY MORE THAN 500 PSI.
     A "TEST" FOR ACCEPTANCE IS THE AVERAGE STRENGTH OF 2 CYLINDERS TESTED AT THE SPECIFIED TEST AGE.

20. COLD WEATHER CONCRETE PLACEMENT
   - 20.1. PLACE CONCRETE IN ACCORDANCE WITH ACI 306.1 AND AS FOLLOWS. PROTECT CONCRETE WORK FROM PHYSICAL DAMAGE OR REDUCED STRENGTH THAT COULD BE CAUSED BY FROST FREEZING ACTIONS, OR LOW TEMPERATURES.
   - 20.2. WHEN AIR TEMPERATURE HAS FALLEN TO OR IS EXPECTED TO FALL BELOW 40°F UNIFORMLY HEAT WATER AND AGGREGATES BEFORE MIXING TO OBTAIN A CONCRETE MIX TEMPERATURE OF NOT LESS THAN 50°F AND NOT MORE THAN 80° AT POINT OF PLACEMENT.
   - 20.3. DO NOT USE FROZEN MATERIALS OR MATERIALS CONTAINING ICE OR SNOW. DO NOT PLACE CONCRETE ON FROZEN SUBGRADE OR ON SUBGRADE CONTAINING FROZEN MATERIALS. DO NOT USE CALCIUM CHLORIDE, SALT OR OTHER MATERIALS CONTAINING ANTIFREEZE AGENTS OR CHEMICAL ACCELERATORS, UNLESS OTHERWISE SPECIFIED AND APPROVED IN MIX DESIGNS.

21. HOT WEATHER CONCRETE PLACEMENT SHALL BE IN CONFORMANCE WITH ACI 305R LATEST EDITION "HOT WEATHER CONCRETING".

22. CONCRETE SHALL BE PLACED WITHIN 90 MINUTES OF BATCH TIME UNLESS SPECIFICALLY APPROVED BY ENGINEER. ENGINEER OR INSPECTOR HAS AUTHORITY TO REJECT TRUCKS NOT MEETING PROJECT SPECIFICATIONS AND/ OR TEMPERATURE/ TIME REQUIREMENTS. CONTRACTOR TAKES FULL RESPONSIBILITY FOR ANY REJECTED TRUCKS.

23. CONCRETE SHALL NOT BE PLACED THAT HAS REACHED OR EXCEEDED 90°F.

STRUCTURAL MATERIALS NOTES:

1. ANCHOR BOLTS.......................................ASTM F1554 GR. 36
2. BOLTS IN WOOD.......................................ASTM A307
3. FASTENERS.......................................GALVANIZED (G90 MIN.)
4. HARDWARE.......................................GALVANIZED (G90 MIN.)
5. CONCRETE.......................................SEE CONCRETE NOTES
6. REINFORCING BARS.................. ASTM A 615, GRADE 60, DEFORMED BARS
7. BAR SUPPORTS.................. CRSI SP-2, CHAPTER 3 - BAR SUPPORTS
8. TIE WIRE.................. 4/0 GAGE OR HEAVIER, BLACK ANNEALED
9. LUMBER.......................................SEE WOOD NOTES.

CATEGORY	MINIMUM QUALIFICATIONS
REINFORCED CONCRETE:	1. CURRENT ICC REINFORCED CONCRETE SPECIAL INSPECTOR OR ACI CONCRETE CONSTRUCTION INSPECTOR. 2. CONCRETE FIELD TESTING CAN BE BY AN ACI CONCRETE FIELD TESTING TECHNICIAN WITH GRADE 1 CERTIFICATION. 3. ENGINEER-IN-TRAINING (EIT) WITH RELEVANT EXPERIENCE. 4. NEW YORK STATE LICENCED PROFESSIONAL ENGINEER (P.E) WITH RELEVANT EXPERIENCE.
EXCAVATION AND FILLING; VERIFICATION OF SOILS; PILING & DRILLED PIERS; MODULAR RETAINING WALLS	1. CURRENT LEVEL II CERTIFICATION IN GEOTECHNICAL ENGINEERING TECHNOLOGY/ CONSTRUCTION FROM THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET). 2. EIT WITH RELEVANT EXPERIENCE. 3. P.E. WITH RELEVANT EXPERIENCE

WOOD NOTES:

1. ALL WOODS AND WOOD CONSTRUCTION SHALL COMPLY WITH ONE OR MORE OF THE FOLLOWING:
   - 1.1. 2016NYS/2015IBC CHAPTER 23 AND SECTION 2308.
   - 1.2. AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (STANDARDS MANUAL).
   - 1.3. NATIONAL FOREST PRODUCTS ASSOCIATION: NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION.
   - 1.4. SOUTHERN PINE INSPECTION BUREAU: STANDARD GRADING RULES FOR SOUTHERN PINE LUMBER.
   - 1.5. TRUSS PLATE INSTITUTE: DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES (TPI-71).
   - 1.6. US DEPARTMENT OF COMMERCE NIST PS 1 AND PS 2.
   - 1.7. AMERICAN PLYWOOD ASSOCIATION: GUIDE TO PLYWOOD FOR FLOORS, PLYWOOD SHEATHING FOR WALLS AND ROOFS.
   - 1.8. AMERICAN WOOD-PRESERVERS ASSOCIATION STANDARDS.

2. STRUCTURAL LUMBER SHALL BE STAMPED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTIONS' "CONSTRUCTION MANUAL".

3. WOOD WITH GRADE LOSS RESULTING FROM EFFECTS OF WEATHERING, HANDLING, STORAGE, RESAWING OR DIVIDING LENGTHS SHALL BE REJECTED.

4. ALL LUMBER SHALL BE DRY (MOISTURE CONTENT LESS THAN 19%).

5. WOOD EXPOSED TO THE ELEMENTS, WITHIN 8" OF GRADE, IN CONTACT WITH CONCRETE, MASONRY OR GROUT SHALL BE PRESERVATIVE TREATED AND SEALED.

6. ALL STUDS, JOISTS, AND ALL OTHER ON CENTER MEMBERS TO BE 16"o.c. UNLESS NOTED OTHERWISE.

7. MATERIALS:
   - 7.1. STUDS AND JOISTS.................. NO.2 SPRUCE-PINE-FUR OR BETTER
   - 7.2. LOAD BEARING STUDS TO HAVE MINIMUM 2x6 NOMINAL SIZE U.N.O.
   - 7.3. LAMINATED VENEER LUMBER (LVL)..........."VERSA-LAM 2.0 2800 DF" BY BOISE CASCADE OR APPROVED EQUAL WITH Fb=2800 PSI, $E=2.0x10^6$ PSI, CONFORMING TO ASTM D5456.
   - 7.4. WOOD STRUCTURAL PANELS. TONGUE-AND-GROOVE DOC PS 1 (SPECIES GROUP 1 OR 2).
     - 7.4.1. WALL SHEATHING MINIMUM THICKNESS ....1/2" DOC 1 GRADE
     - 7.4.2. ROOF SHEATHING .... 3/4" STRUCTURAL I GRADE

8. FOLLOW MANUFACTURER RECOMMENDATIONS AND SPECIFICATIONS FOR ALL PRE-MANUFACTURED SYSTEMS AND COMPONENTS.

9. ALL CONNECTORS AND FASTENERS TO BE SIMPSON-STRONG-TIE OR APPROVED EQUAL.

10. INSTALL LAG SCREWS IN DRILLED LEAD HOLES WITH A DIAMETER EQUAL TO 3/4 OF THE SHANK DIAMETER (LAG SCREWS SHALL NOT BE HAMMERED IN) WITH WASHERS. HOLES SHALL BE PROPERLY ALIGNED.

11. BOLT HOLES SHALL BE DRILLED 1/16" LARGER THAN BOLT DIAMETER. PROVIDE WASHERS. HOLES SHALL BE PROPERLY ALIGNED.

12. TOP PLATES SHALL BE DOUBLED AT ALL LOAD BEARING WALLS WITH AT LEAST 24" LAP.

13. BLOCK ALL STUD WALLS AS REQUIRED FOR SHEATHING AND ACCESSORY FASTENING.

14. BEAMS, GIRDERS AND JOISTS SUPPORTING BEARING WALLS OR OTHER CONCENTRATED LOADS SHALL NOT BE NOTCHED UNLESS SPECIFICALLY NOTED HEREIN. JOISTS, EXCEPT AS NOTED ABOVE, MAY BE NOTCHED NO DEEPER THAN 1/6 THE DEPTH PROVIDED SUCH NOTCH IS LOCATED WITHIN 1/3 OF THE SPAN FROM FACE OF SUPPORT. SAW CUTS FOR NOTCHES SHALL NOT OVERRUN DEPTH OF NOTCH. HOLES IN JOISTS, BEAMS AND GIRDERS SHALL NOT BE LARGER IN DIAMETER THAN 1/3 THE DEPTH OF THE MEMBER AND SHALL BE LOCATED IN THE CENTER HALF OF THE SPAN. ALL HOLES SHALL BE CENTERED WITHIN THE DEPTH OF THE MEMBER WITH A MINIMUM OF 2" OF LUMBER REMAINING ABOVE AND BELOW THE HOLE. HOLES AND NOTCHES IN STUDS SHALL BE LOCATED WITHIN 1/3 OF THE HEIGHT FROM EITHER TOP OR BOTTOM, BUT NO CLOSER THAN 8" FROM PLATES. HOLES AND NOTCHES IN STUDS SHALL NOT EXCEED 1/4 OF THE STUD WIDTH. HOLES BORED THROUGH STUDS MAY NOT EXCEED 1/3 OF STUD WITH AND BE NO CLOSER THAN 3/4" TO EDGE OF STUD.

15. JOISTS, RAFTERS AND DECKING SHALL NOT BE CUT AND HEADED OR DISPLACED TO PROVIDE OPENINGS IN ROOF OR FLOORS, EXCEPT AS DETAILED ON STRUCTURAL PLANS.

16. INSTALL HORIZONTAL MEMBERS WITH CROWN UP.

17. ALL MEMBERS SHALL BE ACCURATELY CUT AND ALIGNED SO THAT FULL BEARING IS PROVIDED WITHOUT THE USE OF SHIMS. BEARING POSTS SHALL HAVE FULL BEARING ON BLOCKING OR SUPPORTS. JOISTS BEAMS AND GIRDERS SHALL HAVE MINIMUM BEARING OF 3 1/2" UNLESS GREATER MINIMUM BEARING IS NOTED ON PLANS OR MANUFACTURER SPECIFICATIONS.

18. VERTICAL WOOD SHEATHING JOINTS SHALL BE CENTERED ON STUDS. HORIZONTAL JOINTS SHALL BE CENTERED ON CONTINUOUS BLOCKING. DO NOT LOCATE GYPSUM BOARD JOINTS ALONG SAME STUDS AS SHEATHING JOINTS.

19. INSTALL PLYWOOD FLOOR AND ROOF SHEATHING WITH FACE GRAIN AT RIGHT ANGLES TO SUPPORTS, CONTINUOUS OVER AT LEAST 2 SPANS. ALLOW 1/16" BETWEEN END JOINTS AND 1/8" AT EDGE JOINTS FOR EXPANSION OF PANELS. PLYWOOD DECKING SHALL BE CONTINUOUSLY GLUED AND NAILED TO ALL SUPPORTS.

20. MINIMUM SIZE AND SPACING OF STRUCTURAL ELEMENTS SHALL BE IN ACCORDANCE WITH SECTION 2308 OF THE IBC2015. MINIMUM FASTENING REQUIREMENTS SHALL BE IN ACCORDANCE WITH TABLE 2304.9.1 OF THE IBC2015. SEE CONTRACT DOCUMENT PLANS, SCHEDULES AND DETAILS FOR ADDITIONAL FRAMING REQUIREMENTS.

21. ENGINEERED TRUSSES ARE TO BE DESIGNED TO DEFLECT VERTICALLY NO MORE THAN L/360 UNDER ALL LOADING CRITERIA.

SPECIAL INSPECTION NOTES:

1. THE OWNER SHALL ENGAGE THE SERVICES OF A QUALIFIED SPECIAL INSPECTOR FOR THE PROJECT, WHO WILL PROVIDE AND/OR COORDINATE INSPECTION AND TESTING REQUIREMENTS AS NECESSARY IN ACCORDANCE WITH THE PROVISIONS OF CHAPTER 17 OF THE 2015 IBC.

2. IN ADDITION TO SPECIAL INSPECTIONS, INSPECTION OF FOUNDATIONS, FOOTINGS, SLABS AND UNDERSLAB SYSTEMS, LOWEST FLOOR ELEVATIONS, FRAMING, LATH AND GYPSUM BOARD, FIRE-RESISTANCE AND PENETRATIONS, ENERGY EFFICIENCY, PRELIMINARY AND FINAL INSPECTIONS MAY BE REQUIRED AND/OR PROVIDED BY THE LOCAL BUILDING OFFICIAL PER THE REQUIREMENTS OF THE 2016 BCNYS. THE LOCAL BUILDING OFFICIAL MAY REQUIRE ADDITIONAL INSPECTIONS TO ASCERTAIN COMPLIANCE WITH THE PROVISIONS OF THE CODE. ALL INSPECTIONS REQUIRED AND/OR PROVIDED BY THE LOCAL BUILDING OFFICIAL SHALL BE AGREED UPON IN WRITING PRIOR TO THE START OF CONSTRUCTION.

3. SPECIAL INSPECTIONS SHALL BE IN ACCORDANCE WITH THE STATEMENT OF SPECIAL INSPECTIONS AND THE SCHEDULE OF SPECIAL INSPECTIONS AND SPECIFICATIONS TO BE SUBMITTED WITH THE CONTRACT DOCUMENTS AND THE APPLICATION FOR BUILDING PERMIT TO THE CODE ENFORCEMENT OFFICIAL. LOCAL BUILDING OFFICIALS CANNOT PROVIDE SPECIAL INSPECTIONS.

4. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING INSPECTION AGENCIES WHEN WORK IS READY FOR INSPECTION WITH AT LEAST 48 HOUR NOTICE OR AS AGREED UPON PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ACCESS AND MEANS FOR INSPECTION INCLUDING ACCESS TO THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION AND REPLACEMENT OF ANY MATERIALS REQUIRED TO ALLOW INSPECTIONS.

5. REFER TO THE SCHEDULE OF SPECIAL INSPECTIONS AND TO THE SPECIFICATIONS FOR REQUIRED SPECIAL INSPECTIONS AND TESTING. SPECIAL INSPECTIONS AND TESTING SHALL BE CONTINUOUS OR PERIODIC DURING THE PERFORMANCE OF THE WORK, AS NOTED.

6. THE CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION MEETING WITH THE ENGINEER, SPECIAL INSPECTOR, TESTING AGENCY, AND AFFECTED SUBCONTRACTORS TO REVIEW THE REQUIRED SPECIAL INSPECTION AND TESTING REQUIREMENTS FOR THE PROJECT. THE CONTRACTOR SHALL DISTRIBUTE CONSTRUCTION SCHEDULES TO EACH ATTENDEE. A SEPARATE MEETING WITH THE LOCAL BUILDING OFFICIAL TO REVIEW INSPECTION REQUIREMENTS, AND TO CONFIRM THE ROLES AND RESPONSIBILITIES OF THE TESTING AGENCIES AND BUILDING OFFICIALS.

7. THE SPECIAL INSPECTOR SHALL SUBMIT INTERIM AND FINAL REPORTS AND, AT COMPLETION OF SPECIAL INSPECTIONS, A FINAL STATEMENT OF SPECIAL INSPECTIONS. REPORTS SHALL BE STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER. SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS AND FURNISH TO CODE ENFORCEMENT OFFICIALS, AND THE THE ENGINEER OF RECORD. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE WITH APPROVED CONSTRUCTION DOCUMENTS. THE SPECIAL INSPECTOR SHALL NOTIFY THE CONTRACTOR IMMEDIATELY OF DISCREPANCIES, SUBSEQUENT REPORTS SHALL NOTE WHEN AND HOW DEFICIENCIES WERE CORRECTED. THE SPECIAL INSPECTOR SHALL NOTIFY THE ENGINEER AND THE CODE ENFORCEMENT OFFICIAL OF DISCREPANCIES WHICH HAVE NOT BEEN CORRECTED.

8. THE SPECIAL INSPECTION PROGRAM SHALL IN NO WAY RELIEVE THE CONTRACTOR OF THE OBLIGATION TO PERFORM THE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS OR FROM IMPLEMENTING AN EFFECTIVE QUALITY CONTROL PROGRAM.

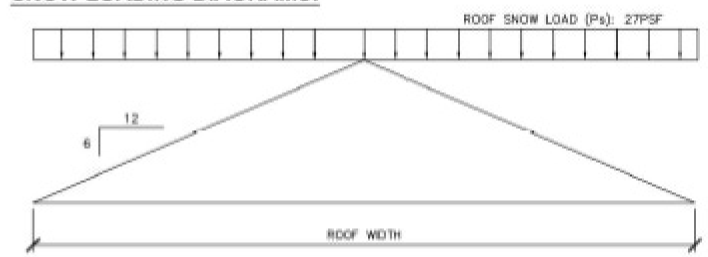
9. EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND- OR SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM OR A WIND-OR SEISMIC-RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE CODE ENFORCEMENT OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT IN

DESIGN CRITERIA:

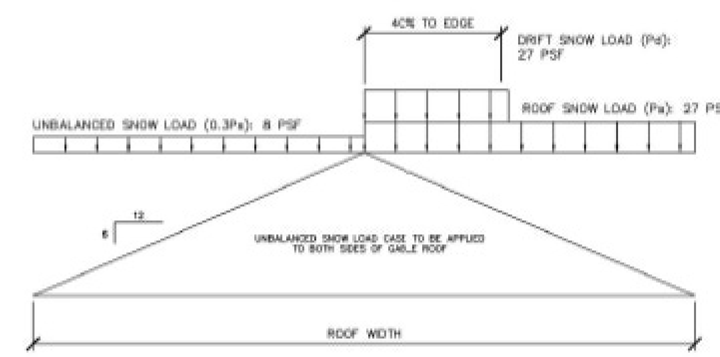
REFER TO SECTION 17 OF THE CODE-COMPLIANCE TABLE PROVIDED ON DRAWING G-004 FOR STRUCTURAL DESIGN CRITERIA.

1. ENGINEERED ROOF TRUSSES SHALL BE DESIGNED TO RESIST THE BALANCED AND UNBALANCED SNOW LOADS DEPICTED IN FIGURES SN1 AND SN2 ON THIS PAGE.

SNOW LOADING DIAGRAMS:



SN1 / S100 **BALANCED SNOW LOAD ON GABLED ROOF**
SCALE: N.T.S



SN2 / S001 **UNBALANCED SNOW LOAD ON GABLED ROOF**
SCALE: N.T.S

SOIL VERIFICATION AND INSPECTION REQUIREMENTS

VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION	
	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	–	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	–	X
3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.	–	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.	X	–
5. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE THE SUBGRADE AND VERIFY THAT THE SITE HAS BEEN PREPARED PROPERLY.	–	X

CAST-IN-PLACE CONCRETE:

INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA	
	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	REFERENCE STANDARD	2015 IBC
1. INSPECTION OF REINFORCING STEEL		X	ACI 318 CH. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
2. INSPECT BOLTS AND ANCHOR RODS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE.	X	–	ACI 318: 17.8.2	–
3. VERIFYING USE OF REQUIRED DESIGN MIX.	–	X	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
4. SAMPLING FRESH CONCRETE AND PERFORMING SLUMP, AIR CONTENT, UNIT WEIGHT, AND DETERMINING THE TEMPERATURE OF FRESH CONCRETE AT THE TIME OF MAKING SPECIMENS FOR STRENGTH TESTS.	X SEE NOTES 1, 2, 3 AND 5	–	ASTM C172 ASTM C31 ACI 318: 26.4, 26.12	1908.10
5. INSPECTION OF CONCRETE FOR PROPER APPLICATION TECHNIQUES	X	–	ACI 318: 26.5	1908.6, 1908.7, 1908.8
6. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	–	X	ACI 318: 26.5.3-26.5.5	1908.9
7. TESTING OF CONCRETE FOR VERIFICATION OF REQUIRED COMPRESSIVE STRENGTH.	X SEE NOTES 1, 3 AND 5	–	ASTM C39	–