STRUCTURAL NOTES

(REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION)

A. A GEOTECHNICAL ANALYSIS HAS BEEN PERFORMED ON THIS SITE. SEE PROJECT MANUAL FOR GEOTECHNICAL INFORMATION. APPROPRIATE RECOMMENDATIONS STATED IN THE

1. FOOTINGS & FOUNDATION EXCAVATION:

- GEOTECHNICAL REPORT ISSUED BY SPEEDIE AND ASSOCIATES DATED DECEMBER 15, 2021 SHALL BE FOLLOWED. B. THESE FOUNDATIONS HAVE BEEN DESIGNED FOR A SOIL BEARING OF 2500 PSF FOR CONTINUOUS AND FOR ISOLATED FOOTINGS. C. FOUNDATIONS SHALL BEAR ON A MINIMUM 2 FEET OF PROPERLY PLACED AND COMPACTED ENGINEERED FILL OVER PRE-COMPACTED SUBGRADE. FLOOR SLABS TO BEAR OVER IMPORTED NON-EXPANSIVE SOILS OR LIME STABILIZED EXISTING SOILS. SEE GEOTECHNICAL REPORT FOR SPECIFIC REQUIREMENTS REGARDING EXCAVATION AND PREPARATION OF SUBGRADE. A GEOTECHNICAL ENGINEER SHOULD BE PRESENT TO DIRECT THE REMOVAL OF UNSUITABLE SOILS AND TO DETERMINE THE ADEQUACY OF THE BEARING SURFACE
- PRIOR TO PLACEMENT OF THE REINFORCEMENT AND CONCRETE. D. FOOTING WIDTHS TO BE AS SHOWN ON PLANS AND DETAILS. BOTTOM OF FOOTING IS TO BE EXCAVATED SQUARE AND TRUE. E. WHERE ANY OPEN TRENCH HAS BEEN EXPOSED TO RAIN, SNOW OR ICE PRIOR TO POURING CONCRETE. ALL REINFORCING IN THAT TRENCH SHALL BE REMOVED AND THE BOTTOM OF THE TRENCH SHALL BE DRAINED OF ALL WATER AND CLEANED OF MUD, SNOW OR ICE. A GEOTECHNICAL ENGINEER OR HIS TECHNICAL REPRESENTATIVE SHALL INSPECT THE
- BOTTOM OF THE TRENCH AND OBSERVE THE RE-COMPACTION OF SOILS PRIOR TO PLACING REINFORCEMENT AND POURING OF CONCRETE. F. ALL STRIP FOOTINGS SHALL BE CENTERED UNDER WALLS BEING SUPPORTED AND ALL ISOLATED FOOTINGS SHALL BE CENTERED UNDER COLUMNS, UNLESS NOTED OTHERWISE. G. MINIMUM EXTERIOR FOOTING DEPTH SHALL BE AS INDICATED ON THE FOUNDATION PLAN SHEET S2.
- H. IN THE EVENT THAT ORGANIC SOIL OR UNCOMPACTED FILL IS FOUND BELOW FOOTINGS OR FLOOR SLABS, IT SHALL BE REMOVED AND REPLACED WITH SELECT FILL, COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
- I. STRUCTURAL FILL SHOULD BE PLACED IN NO GREATER THAN 8" LOOSE LIFTS AND COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. ADEQUATE DENSITY AND MOISTURE CONTENT TESTS SHOULD BE PERFORMED TO INSURE COMPLIANCE WITH PROJECT SPECIFICATIONS. SUBGRADE INSPECTION AND FILL TESTING UNDER CONTROLLED CONDITIONS IS CONSIDERED ESSENTIAL IF THE FOOTINGS ARE TO BE FOUNDED IN FILL. A TESTING FREQUENCY OF AT LEAST ONE FIELD DENSITY TEST FOR EACH 2500 SQUARE FEET OF LIFT, BUT NOT LESS THAN 3 TESTS PER LIFT IS RECOMMENDED WITHIN THE BUILDING AREAS. 2. CONCRETE:
- A. ALL READY MIX CONCRETE SHALL BE 4000 psi FOR ALL CONCRETE PLACEMENT. DO NOT ADD WATER TO THE MIX DESIGN AFTER DELIVERY TO THE PROJECT SITE.
- B. UNLESS NOTED OTHERWISE, CONCRETE COVER OVER STEEL REINFORCEMENT SHALL CONFORM TO THE MINIMUM REQUIREMENT BY ACI 318. C. REINFORCEMENT DETAILING AND PLACEMENT SHALL CONFORM TO ACI 318 AND ACI 315, EXCEPT WHERE OTHERWISE INDICATED.
- D. HOT OR COLD WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 305-89 AND ACI 306-1-90, RESPECTIVELY.
- E. ANY CONCRETE PLACED BY MEANS OF PUMPING SHALL BE DONE IN ACCORDANCE WITH ACI 304.2R (82).
- F. CEMENT SHALL CONFORM TO A.S.T.M. C-150 TYPE I/II. THE USE OF FLY ASH IS NOT PERMITTED ON THIS PROJECT. AGGREGATES SHALL CONFORM TO A.S.T.M. C-33 FOR NORMAL WEIGHT CONCRETE & A.S.T.M. C-330 FOR LIGHTWEIGHT CONCRETE.
- H. READY MIX CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH A.S.T.M. C-94.
- I. ADMIXTURES MAY BE USED WITH THE APPROVAL OF THE STRUCTURAL ENGINEER. ADMIXTURES USED TO INCREASE THE WORKABILITY OF THE CONCRETE SHALL NOT BE CONSIDERED TO REDUCE THE CEMENT CONTENT. NO CALCIUM CHLORIDE ADMIXTURES ALLOWED, 3. SLABS ON GRADE:

A. FLOOR SLABS ARE TO BE PLACED AND FINISHED IN ACCORDANCE WITH ACI 302 (SEE PROJECT MANUAL FOR ADDITIONAL INFORMATION).

B. THICKNESS TOLERANCE FOR ALL SLABS IS TO BE PER ACI 117 AND IS TO BE NO MORE THAN $+\frac{3}{4}$ " (THICKER) AND NO MORE THAN $-\frac{1}{4}$ " (THINNER) FROM THE DESIGN THICKNESS. C. CONCRETE USED FOR FLOOR SLABS SHALL INCLUDE SUPERPLASTICIZER. SEE PROJECT MANUAL FOR ADDITIONAL INFORMATION.

- 4. REINFORCING: A. REINFORCING BARS SHALL BE BILLET STEEL, ASTM A 615, GRADE 60. PROVIDE CONTINUOUS BENT BARS AT FOOTING STEPS AND 90 DEGREE BENT TIES AT CORNERS. UNLESS OTHERWISE NOTED, LAP SPLICES OR EMBEDMENT LENGTHS SHALL CONFORM TO CLASS B SPLICE (SEE SPLICE TABLE). ADJACENT BAR SPLICES IN WALLS AND FOOTINGS TO BE ALTERNATED. ALL FOOTINGS SHALL REQUIRED HOOKED REINFORCING PROJECTED INTO WALLS. PILASTERS OR COLUMNS. THE SIZE AND SPACING OF DOWELS ARE TO MATCH
- VERTICAL REINFORCING. B. WELDED WIRE FABRIC (WWF) SHALL CONFORM TO THE CURRENT ASTM SPECIFICATION FOR COLD DRAWN STEEL REINFORCEMENT WIRE. LAP END AND EDGES MINIMUM 6".
- C. REINFORCING DETAILING, BENDING, AND PLACING SHALL CONFORM TO ACI 315. D. MINIMUM CONCRETE COVERAGE: THE MINIMUM CLEAR DISTANCES BETWEEN REINFORCING STEEL AND FACE OF CONCRETE SHALL BE MAINTAINED UNLESS NOTED OTHERWISE:
 - SLABS ON EARTH.....CENTER OF SLAB CONCRETE BELOW GRADE, FORMED
 - CONCRETE BELOW GRADE, UNFORMED AND POURED AGAINST EARTH
- 5. LUMBER: A. ALL LUMBER SHALL BE FIRE TREATED IN ACCORDANCE WITH PROJECT SPECIFICATIONS. REFER TO ARCHITECTURAL AND PROJECT MANUAL FOR MORE INFORMATION AND SPECIFIC REQUIREMENTS.
- B. TREATED LUMBER: IN LOCATIONS WHERE TREATED LUMBER IS SHOWN ON DRAWINGS, THE APPROVED PRESSURE TREATED WOODS ARE ACQ-D(CARBONATE) OR CA-B TREATED WOODS WITHOUT AMMONIA CARRIERS. THE CHEMICAL RETENTION LEVELS ARE TO BE NO GREATER THAN 0.4 PCF FOR ACQ-2, 0.21 PCF FOR CA-B. ALL METAL CONNECTORS ARE TO HAVE A GALVANIZED COATING OF NO LESS THAN 1.85 OUNCES OF ZINC PER SQUARE FOOT PER ASTM A653. ALL BOLTS, SCREWS NAILS AND OTHER FASTENERS ARE TO BE GALVANIZED PER ASTM A153. WHERE TREATED LUMBER IS SHOWN IN EXTERIOR INSTALLATIONS WITH NO ROOF COVERINGS TO PREVENT DIRECT EXPOSURE TO RAIN, USE HOT DIP GALVANIZED CONNECTORS PER ASTM A123. 6. STRUCTURAL STEEL:
- A. FABRICATOR QUALIFICATIONS: FABRICATOR MUST PARTICIPATE IN THE AISC QUALITY CONTROL PROGRAM AND BE DESIGNATED AN AISC-CERTIFIED PLANT. B. MATERIALS (UNLESS NOTED OTHERWISE).

(IALS (UNLESS NUTED UTHERWISE):	
STRUCTURAL STEEL	
PLATES, ANGLES, CHANNELS, AND MISCELLANEOUS STEEL	ASTM A36
ANCHOR RODS	ASTM F1554, GRADE 36
HIGH STRENGTH BOLTS	ASTM F3125
WELDING ELECTRODES	
PIPE	ASTM A53, GRADE B

SQUARE AND RECTANGULAR HOLLOW STRUCTURAL SECTIONS (HSS)..... 7. LIGHT GAUGE STEEL: SHALL CONFORM TO AISI (LATEST EDITION) AND THE FOLLOWING:

A. ALL LIGHT GAUGE METAL STUDS, JOISTS AND HEADERS ARE TO MEET OR EXCEED INDUSTRY STANDARDS AS SET FORTH BY THE STEEL STUDS MANUFACTURER'S ASSOCIATION

..... ASTM A500, GRADE B

- B. LIGHT GAUGE STEEL MEMBER DESIGNATIONS SHOWN ON THE CONSTRUCTION DOCUMENTS ARE SSMA STANDARD DESIGNATIONS. C. ALL LIGHT GAUGE STEEL WALLS SHALL BE LATERALLY BRIDGED AT 48" O.C. (VERTICALLY) USING 2"x20go STRAP BRACING ATTACHED TO EACH STUD FLANGE. SOLID BLOCKING WITHIN THE PLANE OF THE STRAP BRACING MUST BE PROVIDED AT EACH END OF WALL, ADJACENT TO WALL OPENINGS, AND AT 8' O.C. MAXIMUM. ALL BRIDGING AND BRACING IS TO BE POSITIVELY CONNECTED TO STUDS. WALLS COMPRISED OF MULTIPLE LAYERS OF STUDS SHALL HAVE STRAP BRACING AT EACH FLANGE OF EACH LAYER OF STUDS WITH BLOCKING AS DESCRIBED ABOVE AT EACH STUD.
- D. MINIMUM TRACK GAUGE TO MEET OR EXCEED GAUGE OF SUPPORTED STUDS.
- E. BOTTOM TRACK FASTENERS TO BE SPACED AT EACH END OF WALL, ADJACENT TO WALL OPENINGS, AND AT 48" O.C. MAXIMUM. F. POWDER ACTUATED FASTENERS SHALL BE DS HEAVY DUTY 0.1770x11/2" LONG MANUFACTURED FROM MODIFIED AISI 1061 STEEL AUSTEMPERED TO A HARDNESS OF 52-56 HRC
- AND ZINC PLATED IN ACCORDANCE WITH ASTM B633,SC1, TYPE III. FASTENERS SHALL BE INSTALLED BY A QUALIFIED OPERATOR IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. POWDER ACTUATED FASTENERS SHALL BE AS MANUFACTURED BY "HILTI FASTENING SYSTEMS" OR EQUIVALENT. G. ALL LOAD BEARING STUDS TO BE SEATED SQUARELY INTO TOP AND BOTTOM WALL TRACKS WITH NO MORE THAN A X6" GAP.
- H. THE DESIGN OF SLIP TRACKS SHALL CONFORM TO THE GUIDELINES ESTABLISHED IN SSMA TECHNICAL NOTE NO. 1 PUBLISHED JANUARY, 2001.
- 8. CONCRETE MASONRY UNITS (CMU):
- A. CONCRETE MASONRY UNITS SHALL BE 2-CELL BLOCK THAT CONFORMS WITH THE PROVISIONS OF THE BUILDING CODE STATED IN THE DESIGN CRITERIA.
- B. CELLS TO RECEIVE GROUT SHALL BE SUFFICIENTLY ALIGNED SO AS TO MAINTAIN A CLEAR, UNOBSTRUCTED, CONTINUOUS CELL OF NOT LESS THAN 2%"x3".
- C. FULLY GROUT ALL MASONRY CELLS AT OR BELOW GRADE AND ANY CELL WHICH CONTAINS EITHER VERTICAL OR HORIZONTAL REINFORCING BARS.
- D. VERTICAL REINFORCEMENT FOR CMU WALLS SHALL BE #5's O 24" O.C. WITH AN ADDITIONAL VERTICALLY REINFORCED CELL LOCATED AT EITHER SIDE OF CONTROL JOINT
- LOCATIONS AS WELL AS AT WALL ENDS AND CHANGES IN DIRECTION OR ELEVATION. E. PROVIDE A FOUNDATION DOWEL ALIGNED WITH AND OF EQUAL SIZE TO EACH VERTICAL WALL REINFORCING BAR. FOUNDATION DOWEL SHALL EXTEND INTO MASONRY WALL A SUFFICIENT DISTANCE TO DEVELOP A LAP SPLICE WITH WALL REINFORCEMENT.
- F. LAP SPLICE AND DEVELOPMENT LENGTH FOR REINFORCING BARS #5 AND SMALLER SHALL BE 30". G. VERTICAL WALL REINFORCEMENT SHALL BE CENTERED IN CELLS WITH 9ga HDG REBAR POSITIONERS @ 24" O.C. AND EXTEND CONTINUOUSLY FROM THE FOUNDATION TO TERMINATION IN THE TOPMOST BOND BEAM. HORIZONTAL BOND BEAM REINFORCEMENT SHALL EXTEND CONTINUOUSLY, EXCEPT WHERE INTERRUPTED BY WALL OPENINGS, AND
- INCLUDE BENT BARS AT CORNER LOCATIONS. F. PROVIDE 9gg HDG LADDER TYPE HORIZONTAL JOINT REINFORCEMENT AT EVERY COURSE BELOW GRADE AND AT 16" O.C. ABOVE GRADE. MINIMUM COVER TO BE %" EXTERIOR AND
- 1/ INTERIOR. G. DOUBLE WYTHE CMU MUST BE CONTINUOUSLY TIED TOGETHER WITH 900 TRUSS TYPE HORIZONTAL JOINT REINFORCEMENT AT EACH BED JOINT. REFER TO ARCHITECTURAL DRAWINGS AND PROJECT SPECIFICATIONS FOR INFORMATION REGARDING VENEER ANCHORAGE AND THE REQUIREMENTS.

<u>9. GENERAL:</u> A. CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.

- B. THE STRUCTURAL DESIGN OF THE BUILDING IS BASED UPON THE FULL INTERACTION OF ALL ITS COMPONENT PARTS. WITH NO PROVISION MADE FOR CONDITIONS OCCURRING DURING CONSTRUCTION. THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. THE CONTRACTOR SHALL PROVIDE ADEQUATE BRACING DURING CONSTRUCTION. TEMPORARY SUPPORTS REQUIRED FOR STABILITY DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED, FURNISHED AND INSTALLED BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTIBILITY ANALYSIS AND ERECTION PROCEDURES, INCLUDING DESIGN AND ERECTION OF FALSEWORK, TEMPORARY BRACING, ETC. THE STRUCTURAL ENGINEER ASSUMES NO LIABILITY FOR THE STRUCTURE DURING CONSTRUCTION.
- C. CORRECTIONS DUE TO UNFORESEEN FIELD CONDITIONS OR DIMENSIONAL DISCREPANCIES ON CONSTRUCTION DOCUMENTS MUST BE BROUGHT TO THE ATTENTION OF THE PROJECT ARCHITECT FOR REVIEW AND AUTHORIZATION PRIOR TO CORRECTIVE MEASURES BEING IMPLEMENTED. D. STRUCTURAL DRAWINGS ARE TO BE USED IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.
- E. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES.
- F. ALL SHOP DRAWINGS SHALL BE REVIEWED AND APPROVED BY THE PROJECT ARCHITECT/ENGINEER PRIOR TO SUBMITTING TO THE BUILDING DEPARTMENT FOR REVIEW AND APPROVAL.

10. SIMPSON "AT-XP" ADHESIVE SYSTEM: CONCRETE JAPMO UES ER-263 - MASONRY JAPMO ES-281: A. CONTRACTOR TO FOLLOW ALL REQUIREMENTS, INSTRUCTIONS, AND RECOMMENDATIONS FOR ADHESIVE APPLICATION.

B. SUBSTITUTIONS FOR SIMPSON "AT-XP" ANCHORING ADHESIVE SHALL BE ONLY UPON THE APPROVAL OF THE PROJECT ENGINEER OF RECORD.

- 11. SPECIAL INSPECTIONS REQUIREMENTS: A. OWNER SHALL ENGAGE ONE OR MORE QUALIFIED SPECIAL INSPECTORS AND/OR TESTING AGENCIES TO CONDUCT STRUCTURAL TESTS, CONSTRUCTION MATERIAL TESTING, AND SPECIAL INSPECTIONS SPECIFIED IN THE "STATEMENT OF SPECIAL INSPECTIONS".
- B. FOR THE SPECIFIC RESPONSIBILITY OF THE OWNER, CONTRACTOR, AND SPECIAL INSPECTOR REFER TO THE PROJECT MANUAL.

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