

STRUCTURAL NOTES

A. GENERAL

1. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER CONSTRUCTION IS FULLY COMPLETED. THE CONTRACTOR IS SOLELY RESPONSIBLE TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING CONSTRUCTION, INCLUDING PROVISIONS FOR CHANGEABLE WEATHER UNTIL THE BUILDING IS ENCLOSED AND CONDITIONED. THE CONTRACTOR SHALL DESIGN, INSTALL AND SUBSEQUENTLY REMOVE ANY SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIEDOWNS NECESSARY TO MAINTAIN SAFETY AND STRUCTURAL STABILITY DURING CONSTRUCTION. ANCHOR ROOFS AT STEEL COLUMNS HAVE NOT BEEN DESIGNED FOR, AND WILL NOT PROVIDE, TEMPORARY BRACING OR SUPPORT FOR OTHER COLUMNS OR OTHER CONNECTED FRAMING MEMBERS DURING CONSTRUCTION.
2. THE CONTRACTOR IS SOLELY RESPONSIBLE TO FOLLOW ALL APPLICABLE SAFETY CODES, BUILDING CODES AND GOVERNING REGULATIONS WITH JURISDICTION OVER THE CONSTRUCTION SITE DURING ALL PHASES OF CONSTRUCTION.
3. SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THESE STRUCTURAL NOTES, OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN.
4. DESIGN BASIS: 2020 FLORIDA BUILDING CODE, INCLUDING ALL ADOPTED REFERENCE STANDARDS AND MATERIAL SPECIFICATIONS REFERENCED THEREIN.
5. DESIGN CRITERIA
 - a. ROOF LOADING
 1. DESIGN ROOF LIVE LOAD (MINIMUM) 20 PSF
 2. THE ROOF STRUCTURE HAS BEEN DESIGNED FOR THE ROOF LOADINGS INDICATED ABOVE SUCH THAT AN ADEQUATE ROOF SLOPE AND DRAINAGE SYSTEM ARE REQUIRED TO PREVENT PONDING LOADS WHICH MAY EXCEED THE DESIGN ROOF LOADS.
 - b. WIND LOADING
 1. BASIC WIND SPEED 150 MPH.
 2. WIND IMPORTANCE FACTOR 1.0
 3. OCCUPANCY CATEGORY II
 4. WIND EXPOSURE CATEGORY B
 5. INTERNAL PRESSURE COEFFICIENT +0.18, -0.18
 6. COMPONENTS AND CLADDING:
 - a. PARAPET +74.7 PSF, -81.6 PSF
 - b. WALLS +31.7 PSF, -36.1 PSF
 - c. SEISMIC DESIGN CRITERIA
 1. SEISMIC IMPORTANCE FACTOR 1.0
 2. OCCUPANCY CATEGORY II
 3. MAPPED SPECTRAL RESPONSE ACCELERATIONS:
 - a. SHORT PERIODS 0.057g
 - b. 1 SECOND PERIOD 0.032g
 4. SITE CLASS D (ASSUMED)
 5. SPECTRAL RESPONSE COEFFICIENTS:
 - a. DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIODS = 0.061g
 - b. DESIGN SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD = 0.051g
 6. SEISMIC DESIGN CATEGORY A
 7. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
 - e. ALL NEW FRAMING MEMBERS HAVE BEEN DESIGNED TO MEET THE CODE MINIMUM LIVE LOAD AND TOTAL LOAD DEFLECTION CRITERIA.
 6. COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS. SEE THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND ELEVATIONS NOT SHOWN. ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE INTENDED TO AUGMENT, NOT SUPERSEDE, THOSE SHOWN ON THE ARCHITECTURAL DRAWINGS. DO NOT SCALE THE DRAWINGS. DRAWINGS MAY NOT BE TO SCALE.
 7. EXISTING BUILDING: INSTALL TEMPORARY SUPPORTS AND OTHER MEASURES AS REQUIRED TO PREVENT DAMAGE TO THE EXISTING BUILDING DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, INSTALLATION AND FINAL CLEARANCE OF REQUIRED NEEDLING, SHORING, UNDERPINNING OR BRACING OF THE EXISTING BUILDING. FIELD VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS AND CONDITIONS WHICH AFFECT THE NEW CONSTRUCTION PRIOR TO THE START OF WORK. EXISTING CONDITIONS SHOWN ON THE DRAWINGS ARE BASED ON THE ORIGINAL CONSTRUCTION DRAWINGS PROVIDED BY THE ARCHITECT AND HAVE NOT BEEN CONFIRMED, ARE NOT GUARANTEED AND MAY CONFLICT WITH THE NEW WORK REQUIRED. FIELD VERIFY THAT THE EXISTING FRAMING AFFECTED BY THE NEW WORK IS IN SOUND CONDITION AND DOES NOT DISPLAY VISIBLE SIGNS OF DISTRESS OR DETERIORATION OR HAS BEEN PREVIOUSLY MODIFIED OR ALTERED. IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE INFORMATION SHOWN ON THE DRAWINGS AND ACTUAL FIELD CONDITIONS; DO NOT PROCEED WITH THAT PORTION OF WORK UNTIL ALL DISCREPANCIES HAVE BEEN RESOLVED. THE CONTRACTOR SHALL SUBMIT A FIELD SURVEY SHOWING ALL DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THE NEW WORK. BASED ON THE REPORTED FIELD CONDITIONS, THE ARCHITECT WILL SUBMIT SUPPLEMENTAL INSTRUCTIONS FOR ALL WORK (NEW OR EXISTING) REQUIRING MODIFICATION.
 8. ARCHITECTURAL ITEMS OR PREFABRICATED ITEMS SHOWN ON THE STRUCTURAL DRAWINGS ARE REFERENCED FOR GENERAL COORDINATION PURPOSES ONLY.
 - a. TYPICAL REFERENCED ARCHITECTURAL ITEMS INCLUDE BUT MAY NOT BE LIMITED TO: DRAINS, DRAIN TILES, FINISHES, DOORS, WINDOWS, AND ITEMS FOR THERMAL AND MOISTURE PROTECTION. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR MATERIAL REQUIREMENTS, PLACEMENT AND EXACT LOCATION OF SUCH ITEMS.
 - b. TYPICAL REFERENCED PREFABRICATED ITEMS INCLUDE BUT MAY NOT BE LIMITED TO: STAIRS, HANDRAILS, CURTAIN WALL/STOREFRONT SYSTEMS, AWNINGS, PREFABRICATED FRAMING AND COLD-FORMED STEEL FRAMING. SUCH SYSTEMS SHALL BE DESIGNED, FURNISHED AND INSTALLED AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS.

B. STRUCTURAL LUMBER

1. ALL STRUCTURAL LUMBER CONSTRUCTION SHALL CONFORM TO THE LATEST, ADOPTED EDITIONS OF THE STANDARDS AND MATERIAL SPECIFICATIONS REFERENCED HEREIN.
2. REFERENCE STANDARD
 - a. NDS, "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" BY THE AMERICAN FOREST & PAPER ASSOCIATION (AF & PA).
3. MATERIALS
 - a. ALL LUMBER SHALL COMPLY WITH THE REQUIREMENTS OF DOC PS 20. FURNISH LUMBER WITH EACH PIECE FACTORY-MARKED WITH GRADE STAMP OF INSPECTION AGENCY VERIFYING COMPLIANCE WITH GRADING RULE REQUIREMENTS AND IDENTIFYING GRADING AGENCY, GRADE, SPECIES, MOISTURE CONTENT AND MILL.
 - b. ALL WOOD STRUCTURAL PANELS SHALL COMPLY WITH REQUIREMENTS OF DOC PS 1, DOC PS 2, HPVA HP 1 AND APA PDS. FACTORY-MARK ALL WOOD STRUCTURAL PANELS WITH A GRADING STAMP OF THE INSPECTION AGENCY.
 - c. STUDS: SOUTHERN PINE NO. 2 OR BETTER, ACCORDING TO THE NATIONAL LUMBER GRADES AUTHORITY (NLGA), SEASONED AT 19% M.C.
 - d. STRUCTURAL LUMBER: SOUTHERN PINE NO. 2 OR BETTER, ACCORDING TO THE NATIONAL LUMBER GRADES ASSOCIATION (NLGA), SEASONED AT 19% M.C.
 - e. WOOD STRUCTURAL PANELS (PLYWOOD OR ORIENTED STRAND BOARD):
 1. ROOF: 19/32" (5/8" NOMINAL), APA RATED SHEATHING, 40/20, EXPOSURE 1, U.N.O.
 2. WALL: 15/32" (1/2" NOMINAL), APA RATED SHEATHING, 32/16, EXPOSURE 1.
 - f. FASTENERS
 1. NAILS: COMMON STEEL WIRE NAILS, CONFORMING TO ASTM F1667.
 2. WOOD SCREWS: FLAT HEAD, CONFORMING TO ANSI/ASME STANDARD B18.6.1.
 3. BOLTS, NUTS AND WASHERS: CONFORM TO ASTM A307, ASTM A563 AND ASTM F436, RESPECTIVELY.
 - g. WOOD-PRESERVATIVE TREATMENT: COMPLY WITH THE APPLICABLE REQUIREMENTS OF AWPA STANDARD U1. MARK EACH TREATED ITEM WITH THE APPROPRIATE QUALITY MARK.
4. CONNECTIONS: AS A MINIMUM, CONFORM CONNECTIONS FOR STRUCTURAL MEMBERS TO THE FASTENING SCHEDULE LISTED IN INTERNATIONAL BUILDING CODE.
 - a. PROVIDE GALVANIZED CONNECTORS BY THE SIMPSON STRONG-TIE CO. INSTALL ALL CONNECTORS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 - b. WOOD STRUCTURAL PANELS TO WOOD ROOF RAFTERS: NAILED, USE 10d COMMON NAILS SPACED AT 6 INCHES O.C. AT PANEL EDGES AND 12 INCHES O.C. AT INTERMEDIATE SUPPORTS. INSTALL PLYWOOD CLIPS AT MID-SPAN OF PLYWOOD BETWEEN SUPPORTS.
 - c. WOOD STRUCTURAL PANELS TO WOOD STUDS: USE 10d COMMON NAILS SPACED AT 6 INCHES O.C. AT PANEL EDGES AND 12 INCHES O.C. AT INTERMEDIATE SUPPORTS. BLOCK ALL EDGES WITH FULL-DEPTH BLOCKING.
 - d. PROVIDE GALVANIZED FASTENERS FOR ALL EXTERIOR APPLICATIONS AND FOR ALL WOOD-PRESERVATIVE TREATED MATERIALS.
 - e. AT POSTS AND JAMBS OF OPENINGS, NAIL MULTIPLE STUDS TOGETHER WITH 8d NAILS AT 8" O.C., FULL LENGTH.
5. MISCELLANEOUS
 - a. INSTALL FULL-DEPTH SOLID BLOCKING AT RAFTER BEARING LOCATIONS. INSTALL ONE LINE OF SOLID BLOCKING OR CROSS BRIDGING AT 8"-0" O.C. MAX. FOR ALL RAFTERS.
 - b. AT ALL EXTERIOR STUD WALLS INSTALL A CONTINUOUS LINE OF SOLID BLOCKING AT MID-HEIGHT OF THE WALL, BUT AT NO GREATER THAN 5'-0" ON CENTER MAXIMUM.
 - c. UNLESS NOTED OTHERWISE, INSTALL MINIMUM DOUBLE JACK BEARING STUDS UNDER EACH END OF ALL BEAMS, BUT NOT LESS THAN THE NUMBER REQUIRED TO PROVIDE FULL-WIDTH SOLID BEARING OF THE SUPPORTED MEMBERS.
 - d. INSTALL STANDARD THREE-STUD CORNER CONSTRUCTION AT INSIDE AND OUTSIDE CORNERS, PROVIDING NAILING SURFACES FOR SHEATHING. INSTALL BLOCKING AS REQUIRED.
 - e. TREAT ALL EXTERIOR LUMBER OR LUMBER IN CONTACT WITH CONCRETE OR MASONRY WITH PRESERVATIVE IN ACCORDANCE WITH AWPA.
 - f. INSTALL WOOD STRUCTURAL PANEL WALL SHEATHING ON ALL EXTERIOR WALLS.
 - g. HOT-DIP GALVANIZE ALL STEEL CONNECTORS AND PRODUCTS 14 GA. AND THICKER AFTER FABRICATION THAT ARE IN CONTACT WITH PRESERVATIVE-TREATED WOOD. PROVIDE MINIMUM 2.0 OZ. COATING, ALL SIDES, PER ASTM A123. PROVIDE HOT-DIPPED GALVANIZED CONNECTORS PER ASTM A153 OR STAINLESS STEEL CONNECTORS.
 - h. HOT-DIP GALVANIZE ALL STEEL CONNECTORS AND PRODUCTS LESS THAN 14 GA. THICK AFTER FABRICATION THAT ARE IN CONTACT WITH PRESERVATIVE-TREATED WOOD. PROVIDE MINIMUM 1.85 OZ. COATING, ALL SIDES, PER ASTM A653. PROVIDE HOT-DIPPED GALVANIZED CONNECTORS PER ASTM A153 OR STAINLESS STEEL CONNECTORS.
6. STRUCTURAL STEEL
 - a. SHAPES AND PLATES SHALL BE ASTM A36, U.N.O.
 - b. BOLTS SHALL BE ASTM A325, 3/4" DIA. (MIN.), U.N.O.
 - c. STEEL DESIGN IS BASED ON THE CURRENT AISC MANUAL OF STEEL CONSTRUCTION (ASD).
 - d. WELDING ELECTRODES SHALL BE SERIES E70XX.
 - e. PERFORM WELDING IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY'S AWS D1.1 "STRUCTURAL WELDING CODE".
 - f. STEEL FABRICATORS SHALL BE A COMPANY THAT IS CERTIFIED BY AISC. (NOTE - IF NOT CERTIFIED BY AISC, THEN SPECIAL INSPECTION FOR REVIEW OF SHOP FABRICATION AND QUALITY CONTROL PROCEDURES IS REQUIRED.)
 - g. SHOP PAINT: STANDARD RED PRIMER, U.N.O. IN SPECIFICATIONS. CONTRACTOR TO COORDINATE PAINT WITH PROPOSED FINISHES AS APPLICABLE.
 - h. FASTENERS FOR PRESERVATIVE-TREATED AND FIRE-RETARDANT-TREATED WOOD SHALL BE HOT-DIPPED ZINC-COATED GALVANIZED STEEL.

SITE NUMBER:	08452
BUILDING TYPE:	E2000
ASSET TYPE:	FREESTANDING
CLASSIFICATION:	REFRESH
OWNER:	STARBOARD
BASE VERSION:	2021 SPRING
UPGRADE CLASSIFICATION:	N/A
PROJECT YEAR:	2022
DESIGN TYPE:	(2.0) UM BRIGHT
DRAWING RELEASE:	2021 SPRING

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REV.	DATE	DESCRIPTION
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ISSUE DATE: 12/02/2021

PROJECT NUMBER: 21-125

DRAWN BY:

CHECKED BY:

SEAL

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SHEET NAME

STRUCTURAL NOTES AND SECTIONS

SHEET NUMBER

S0.1

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