

GENERAL NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BRACING DURING CONSTRUCTION. PROVIDE ADEQUATE SHORING OR BRACING DURING CONSTRUCTION TO RESIST ALL REQUIRED FORCES SUCH AS (BUT NOT LIMITED TO) DEAD LOADS, LIVE LOADS, SOIL PRESSURES, CONSTRUCTION LOADS, WIND AND UNBALANCED LOADING. PROVIDE TEMPORARY SAFETY ENCLOSURES AS NECESSARY TO PROTECT ALL PERSONNEL INVOLVED WITH THIS PROJECT.
- GROUT SHALL BE NON-SHRINK WITH A MINIMUM 7 DAY COMPRESSIVE STRENGTH OF 3000 P.S.I. EXPOSED GROUT SHALL BE NON-STAINING.
- THE 2024 INTERNATIONAL BUILDING CODE WITH 2026 GEORGIA AMENDMENTS SHALL APPLY.
- DETAILS NOT SHOWN SHALL BE ACCORDING TO:

AMERICAN INST. OF STEEL CONSTR.	A.I.S.C.	SPECS FOR STRUCTURAL STEEL
AMERICAN CONCRETE INSTITUTE	A.C.I.	SPECS FOR CONCRETE
AMERICAN WELDING SOCIETY	A.W.S.	SPECS FOR WELDING
AMERICAN IRON & STEEL INSTITUTE	A.I.S.I.	SPECS FOR COLD FORMED STEEL
NATIONAL CONCRETE MASONRY ASSOC	N.C.M.A.	SPECS FOR CONCRETE MASONRY
- DESIGN LOADS:

ROOF DEAD LOAD	- 20 P.S.F.
ROOF LIVE LOAD	- 20 P.S.F.

SNOW:

GROUND SNOW LOAD, Pg	- 9 P.S.F.
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WIND:

BASIC WIND SPEED, V_{ult}	- 107
BASIC WIND SPEED, V_{avg}	- 83
RISK CATEGORY	- II
EXPOSURE	- B
INTERNAL PRESSURE COEFFICIENT, C_{pi}	- 0.18
DESIGN PRESSURE (COMPONENTS/CLADDING) (psf)	- 10.18
WALL FIELD	- ±10 P.S.F.
WALL END-ZONE	- ±11 P.S.F.
ROOF CENTER FIELD	- ±10 P.S.F.
ROOF OUTER FIELD	- ±14 P.S.F.
ROOF EDGE ZONE	- ±19 P.S.F.
ROOF CORNER ZONE	- ±24 P.S.F.
NET ROOF UPLIFT	- 10 P.S.F.

WIND NOTES:

 - END-ZONE & EDGE ZONE DISTANCE = 5'-0"
 - MWFRS FORCES AND COMPONENT/CLADDING PRESSURES SHOWN ARE FOR WORST CASE OF POSITIVE OR NEGATIVE INTERNAL PRESSURE.

SEISMIC:

RISK CATEGORY	- II
SEISMIC IMPORTANCE FACTOR, I	- 1.0
S_s	- 0.290
S_1	- 0.091
SITE CLASS	- Default
S_{ps}	- 0.227
S_{p1}	- 0.127
SEISMIC DESIGN CATEGORY	- B
DESIGN BASE SHEAR, V	- 9 KIPS
SEISMIC RESPONSE COEFFICIENT, C_s	- 0.113
RESPONSE MODIFICATION FACTOR, R	- 2.00
ANALYSIS PROCEDURE	- EQUIVALENT LATERAL FORCE PROCEDURE
BASIC SEISMIC-FORCE-RESISTING SYSTEM	- BUILDING FRAME SYSTEMS - ORDINARY REINFORCED SHEAR WALLS
- CONTRACTOR SHALL REVIEW SHOP DRAWINGS AND VERIFY ALL DIMENSIONS PRIOR TO SUBMITTING SAME TO ARCHITECT AND/OR ENGINEER FOR REVIEW. ARCHITECT AND ENGINEER'S REVIEW OF SHOP DRAWINGS TO BE ONLY FOR CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS.
- ALL SHOP DRAWINGS SHALL BE PREPARED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF GEORGIA.
- COMPLETE SHOP DRAWINGS FOR CONSTRUCTION OF ALL APPLICABLE SPECIALTY ITEMS INCLUDING BUT NOT LIMITED TO CURTAINWALL GLAZING SYSTEMS, LIGHT GAGE STEEL FRAMING, ORNAMENTAL GUARDRAILS, AND STAIRS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF GEORGIA AND SHALL BE AVAILABLE AT THE JOB SITE DURING TIMES OF INSPECTION.
- THIS PROJECT INVOLVES THE MODIFICATION OF AN EXISTING BUILDING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING AND COORDINATING EXISTING CONDITIONS AND DIMENSIONS. ANY INFORMATION SHOWN ON THESE DRAWINGS REGARDING EXISTING CONDITIONS IS FOR REFERENCE ONLY, AND MUST BE FIELD VERIFIED BY THE CONTRACTOR.
- NO STRUCTURAL WORK FOR THIS PROJECT REQUIRES SPECIAL INSPECTIONS PER CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE.

CONCRETE NOTES:

- ALL CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI. SLUMP IN ALL CONCRETE SHALL NOT EXCEED 4" EXCEPT FOR MIXES EXPLICITLY DESIGNED FOR PLACEMENT BY PUMPING. HIGHER SLUMPS IN PUMP MIXES MAY BE OBTAINED BY USE OF ADMIXTURES.
- AIR ENTRAINING AGENTS SHALL BE USED TO PRODUCE 3% TO 6% AIR BY VOLUME IN ALL CONCRETE EXCEPT INTERIOR SLABS ON GRADE. (3% MAX.)
- EXCEPT AS NOTED, FLY ASH MAY BE USED AS A DIRECT SUBSTITUTE FOR PORTLAND CEMENT. FLY ASH MUST CONFORM TO ALL ASPECTS OF ASTM C618 STANDARD SPECIFICATION FOR FLY ASH, CLASS F OR CLASS C FLY ASH MAY BE USED, HOWEVER, TOTAL LOSS ON IGNITION OF FLY ASH MUST BE 3% OR LESS. FLY ASH MAY BE SUBSTITUTED ON A 1:1 RATIO BY WEIGHT AND ONLY UP TO A 20% REDUCTION IN THE ORIGINAL CEMENT CONTENT. CONCRETE PROPORTIONS SHALL BE SELECTED ON THE BASIS OF TRIAL MIXES CONFORMING TO A.C.I. 211.1. NO FLYASH SHALL BE USED IN CONCRETE THAT IS EXPOSED TO VIEW.
- ALL STEEL BAR REINFORCEMENT SHALL BE A.S.T.M. A-615, GRADE 60.
- WELDED WIRE REINFORCING (W.W.R.) SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR COLD-DRAWN STEEL WIRE FOR CONCRETE REINFORCEMENT A.S.T.M. A-1064. ALL WELDED WIRE REINFORCING SHALL BE CLEAN AND FREE OF EXCESSIVE RUST. WELDED WIRE REINFORCING SHALL BE SUPPORTED AT THE PROPER LOCATION WITHIN THE SLAB THICKNESS BY CHAIRS OR OTHER APPROPRIATE METHODS. IT IS NOT ACCEPTABLE TO "HOOK AND PULL" THE W.W.R. INTO POSITION WITHIN THE WET CONCRETE.
- MAINTAIN MINIMUM CONCRETE COVERAGE FOR REINFORCING STEEL AS INDICATED UNLESS OTHERWISE NOTED IN THE DRAWINGS.
 - 3" CLEAR WHERE CONCRETE IS DEPOSITED DIRECTLY AGAINST EARTH.
 - 2" CLEAR WHERE CONCRETE IS EXPOSED TO EARTH OR WEATHER BUT CAST AGAINST FORMS FOR BARS #6 OR LARGER.
 - 1 1/2" CLEAR WHERE CONCRETE IS EXPOSED TO EARTH OR WEATHER BUT CAST AGAINST FORMS FOR BARS #5 OR SMALLER.
 - 3/4" CLEAR FOR SLABS AND WALLS FORMED ABOVE GRADE AND NOT EXPOSED TO WEATHER.
 - 1-1/2" CLEAR FOR BEAMS AND COLUMNS FORMED ABOVE GRADE AND NOT EXPOSED TO WEATHER.
- MINIMUM LAP SPLICE LENGTH FOR CONCRETE REINFORCEMENT ON THIS PROJECT SHALL BE AS FOLLOWS (U.N.O. ON DRAWINGS):

#3 BARS	- 17"
#4 BARS	- 23"
#5 BARS	- 28"
- ALL EXPOSED CORNERS SHALL HAVE 3/4" CHAMFER U.N.O..
- C.J. ON PLANS INDICATES CONSTRUCTION JOINTS OR CONTROL JOINTS. IF NOT SHOWN OTHERWISE, MAINTAIN A MAXIMUM AREA BOUNDED BY SLAB CONTROL JOINTS OF 400 SQUARE FEET (i.e. 20' x 20') THE MAXIMUM SIDE RATIO OF WHICH SHALL BE 2:1, AND JOINTS AT ALL REENTRANT SLAB CORNERS.
- SEE ARCHITECTURAL DRAWINGS/SPECS. FOR CONCRETE FLOOR FINISH REQUIREMENTS.
- ALL CONCRETE HAS BEEN DESIGNED IN ACCORDANCE WITH ACI-318-25 (BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE).
- CONCRETE TEST REPORTS SHALL BE AVAILABLE AT THE JOBSITE DURING TIMES OF INSPECTION.

STEEL NOTES:

- ALL STRUCTURAL STEEL SHALL BE PROVIDED AS FOLLOWS:

W BEAMS	- ASTM A992 GR 50
HSS SHAPES	- ASTM A500 GR C
CHANNELS, ANGLES, PLATES, ETC.	- ASTM A36
- ALL WELDS SHALL BE MADE WITH E-70 ELECTRODES, UNLESS NOTED OTHERWISE IN THE DRAWINGS, ALL FILLET WELDS SHALL BE 3/16" MIN.
- ALL WELDED JOINTS SHALL CONFORM TO THE PROVISIONS OF AWS D1.1-20, STRUCTURAL WELDING CODE BY AMERICAN WELDING SOCIETY (SECTION 2207). PROOF OF WELDER CERTIFICATION SHALL BE AVAILABLE AT THE JOB SITE DURING TIMES OF INSPECTION.
- GRIND EXPOSED WELDS SMOOTH AND FLUSH, TO MATCH AND BLEND WITH ADJOINING SURFACES.
- ROOF DECK AT CANOPY IS A PROPRIETARY SYSTEM (KODA XT) SUPPORTED BY A SYSTEM OF "UNISTRUT" CHANNELS. THE CONTRACTOR SHALL CAREFULLY COORDINATE SUPPORT REQUIREMENTS AND ATTACHMENT DETAILS WITH THE MANUFACTURER TO ENSURE PROPER LAYOUT OF THE "UNISTRUT" SUPPORT SYSTEM.
- STRUCTURAL PROPERTIES OF THE SUPPLIED METAL STUDS SHALL MEET OR EXCEED THOSE OF STUDS PRODUCED BY "MARINO/WARE, INC." FOR EACH SPECIFIED DEPTH, PROFILE, AND GAGE. STUDS SHALL MEET OR EXCEED THE REQUIREMENTS OF ASTM C955 AND A924, WITH MINIMUM YIELD STRENGTH AS FOLLOWS:

20 AND 18 GAGE STUDS AND ALL TRACKS	16 GAGE STUDS AND JOISTS
14, 12, AND 10 GAGE STUDS AND JOISTS	
- MINIMUM CONNECTION OF LIGHT-GAGE FRAMING (UNLESS NOTED OTHERWISE) SHALL BE AS FOLLOWS:

TRACK TO CONCRETE:	TRACK TO ROLLED STEEL:
STUD TO TRACK:	LAPPED STUD-TO-STUD:
- ALL BRICK ANGLES AND ANY OTHER EXPOSED STEEL SHALL BE GALVANIZED.

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THESE PLANS ARE COMPLEMENTARY. THEREFORE THE CONTRACTOR SHALL SEE THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL PLANS AND SPECIFICATIONS, WHICH IF REQUIRED BY ANY ONE SHALL BE PROVIDED AS REQUIRED BY ALL. THE INTENT OF THE DOCUMENTS IS TO INCLUDE ALL LABOR, MATERIALS, EQUIPMENT AND OTHER ITEMS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE WORK OF ALL TRADES.

NO.	DATE	ISSUANCE / REVISIONS

SHEET TITLE
STRUCTURAL NOTES

SHEET NUMBER
S100

PROJECT: 24114 DATE: 03/16/2026 DRAWN: WHL
LEI PROJECT # 25041