

STRUCTURAL ABBREVIATIONS			
#	NUMBER OR POUND	GA	GAGE
Ø	ROUND OR DIAMETER	GB	GALVANIZED GRADE BEAM
□	SQUARE	GC	GENERAL CONTRACTOR
△	AND	GT	GRID TRUSS
ALUM	ALUMINUM	HGT	HEIGHT
AR	ANCHOR ROD	HC	HORIZONTAL
ARCH	ARCHITECTURE	HSA	HEADED STUD ANCHOR
ASBY	ASSEMBLY	HIP	HIP TRUSS
BTWN	BETWEEN	IF	INSIDE FACE
BLDG	BUILDING	INT	INTERIOR
BL	BEAM	JNT	JOINT
BM	BOTTOM	JST	JOIST
BPL	BASE PLATE	LB	LOAD
BRRG	BEARING	LG	LONG
C TO C	CENTER TO CENTER	LLH	LONG LEG HORIZONTAL
CANT	CANTILEVER	LV	LONG LEG VERTICAL
CL	CONSTRUCTION JOINT	LSH	LONG SIDE HORIZONTAL
CLR	CLEAR	LSV	LONG SIDE VERTICAL
CMU	CONCRETE MASONRY UNIT	MANUF	MANUFACTURER
COL	COLUMN	MAX	MAXIMUM
CONC	CONCRETE	MCH	MECHANICAL
CONN	CONNECTION	MIN	MINIMUM
CONST	CONSTRUCTION	MISC	MISCELLANEOUS
CONT	CONTINUOUS	W/	WITH
CONTR	CONTRACTOR	WO	WITHOUT
CTR	CENTER	WP	WORK POINT
CTRD	CENTERED	WS	WATERSTOP
DA	DEFORMED BAR ANCHOR	WWF	WELDED WIRE FABRIC
DEFL	DEFLECTION	NO	NOT IN CONTRACT
DET	DETAIL	NR	NEAR SIDE
DI	DIAMETER	NT	NOT TO SCALE
DIAG	DIAGONAL	OC	ON CENTER
DIF	DIFFERENT	OD	OUTSIDE DIAMETER
DM	DIMENSION	OO	OUT TO OUT
DTO	DITTO	OPNG	OPENING
DWG	DRAWING	OSP	OPPOSITE
EA	EACH FACE	PRE	PRE-ENGINEERED METAL
EACH	EACH FACE	PERP	PERPENDICULAR
ELEV	ELEVATION	PL	PLATE
ELEC	ELECTRICAL	PNL	PANEL
ENVT	ELEVATOR	PRFAB	PREFABRICATED
ENG	ENGINEER	PSF	POUNDS PER SQUARE FOOT
EOR	ENGINEER OF RECORD	PSI	POUNDS PER SQUARE INCH
EQ	EQUAL	PT	POST TENSIONED
EQUIP	EQUIPMENT	QTY	QUANTITY
EXIST	EXISTING	R or RAD	RADIUS
EXT	EXTERNAL	RD	ROUND
EW	EACH WAY	REF	REFERENCE
FB	FLAT BAR	REFR	REINFORCEMENT
FD	FLOOR DRAIN	REQ	REQUIRED
FON	FOUNDATION	RECD	RECORD
FS	FLOOR FINISH FLOOR	RET	RETAINING
FS	FLOOR FINISH FLOOR	REV	REVISION
FLR	FLOOR FINISH FLOOR		
FTG	FOOTING		

DESIGN CRITERIA			
DESIGN PER 2012 TENNESSEE BUILDING CODE, UNLESS OTHERWISE NOTED.			
LIVE LOADS:			
CONTIGUOUS CANOPIES (REDUCIBLE)			20 PSF
STAIRS			100 PSF
FLOORS (REDUCIBLE)			40 PSF
CORRIDORS			40 PSF
STORAGE			125 PSF
DEAD LOADS:			
FLOOR			30 PSF
ROOF			20 PSF
WIND LOADS:			
ULTIMATE WIND SPEED (ASCE 7-10)			115 MPH
WIND EXPOSURE			99.1 MPH
MEAN ROOF HEIGHT			20 FT
RISK CATEGORY			I
ENCLOSURE CLASSIFICATION			ENCLOSED
INTERNAL PRESSURE COEFFICIENT			+0.18
DIRECTIONAL FACTOR (Kd)			0.85
SHAPE FACTORS			PER CODE
THIS BUILDING IS NOT LOCATED IN THE WIND BORNE DEBRIS REGION. IMPACT RESISTANT GLAZING IS NOT REQUIRED.			
SNOW LOADS:			
GROUND SNOW LOAD, Pg			10 PSF
FLAT ROOF SNOW LOAD INCLUDING RAIN OR SNOW SURCHARGE			8.4 PSF
EXPOSURE FACTOR, Ce			0.8
THERMAL FACTOR, Ct			1.0
DRIFT SURCHARGE, Pd			42.6 PSF
WIDTH OF SNOW DRIFT, W			11'-2"
SEISMIC:			
IMPORTANCE FACTOR, I			1.0
RISK OR OCCUPANCY CATEGORY			II
MAPPED SPECTRAL RESPONSE ACCELERATION, Sa			0.374
MAPPED SPECTRAL RESPONSE ACCELERATION, S1			0.125
SITE CLASS			D
SPECTRAL RESPONSE COEFFICIENT, Sds			0.374
SPECTRAL RESPONSE COEFFICIENT, Sd1			0.192
SEISMIC DESIGN CATEGORY			C
BASIC STRUCTURAL SYSTEM			BEARING WALL
SEISMIC RESISTING SYSTEM			LIGHT FRAME (WOOD) WALLS WITH STRUCTURAL STEEL PANELS
RESPONSE MODIFICATION FACTOR, R			6.5
ANALYSIS PROCEDURE			EQUV LATERAL FORCE
DESIGN BASE SHEAR, V			0.059W
CONCRETE (DESIGN PER CURRENT EDITION ACI 318):			
SLAB ON GRADE			Fc= 3000 PSI
FOOTING			Fc= 3000 PSI
ALL OTHER CONCRETE			Fc= 3000 PSI
EXPANSION BOLTS SHALL BE HILTI KWIK BOLT 3, SIMPSON STRONG-TIE STRONG-BOLT2, DEWALT POWER-STRIP, SDI OR APPROVED EQUAL, UN, EMBEDMENT DEPTH INTO CONCRETE OR SOLID GROUTED MASONRY SHALL BE AT LEAST 12 TIMES THE BOLT DIAMETER, UN, CLEAN HOLE AND INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.			
WELDED STEEL JOIST (DESIGN PER CURRENT EDITION AISI):			
WELDED WIRE FABRIC			ASTM A1064
POST-TENSIONING STRAND			ASTM A416 GRADE 270
CONCRETE MASONRY (DESIGN PER CURRENT EDITION ACI 530)			
COMPRESSIVE STRENGTH			Fm= 1500 PSI
STRUCTURAL STEEL (DESIGN PER CURRENT EDITION AISI), UNLESS OTHERWISE NOTED (UN) MATERIALS SHALL BE AS FOLLOWS:			
I-SHAPES			ASTM 992, Fy=50 KSI
OTHER SHAPES & PLATES			ASTM A36, Fy=36 KSI
HSS SQUARE & RECTANGULAR SHAPES			ASTM A500 GRADE B, Fy=48 KSI
HSS ROUND SHAPES			ASTM A500 GRADE B, Fy=42 KSI
STEEL PIPES			ASTM A53 GRADE B, Fy=36 KSI
WELDED STRUCTURAL BOLTS			ASTM A505 SERIES D70
HIGH-STRENGTH BOLTS			3/4" ASTM A325
ANCHOR RODS			GRADE 36 ASTM F1554
ADHESIVE ANCHORING (EPOXY):			ASTM A108
DEFORMED BARS			ASTM A496
WELDEABLE BARS			ASTM A1036
PAINT & PROTECTION			SSPC PAINT 25
GROUT - NONMETALLIC, SHRINKAGE-RESISTANT			ASTM C1107
OPEN WEB STEEL JOIST (DESIGN PER CURRENT EDITION SJI WITH AN ALLOWABLE TENSILE STRESS OF 30,000 PSI)			
TIMBER (DESIGN PER CODE SECTION 2301.2 (ALLOWABLE STRESS OR LRFD DESIGN) AND CURRENT EDITION NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION):			
STRUCTURAL LUMBER			NO. 2 SOUTHERN PINE
GLULAM			Fv= 2400 PSI
SOL BEARING (GEOSERVICES, LLC REPORT DATED OCTOBER 10, 2019):			3000 PSF
GENERAL NOTES:			
FOUNDATION:			
IF FOOTING ELEVATIONS SHOWN OCCUR IN A DISTURBED, UNSTABLE, OR UNSUITABLE SOIL, THE ENGINEER SHALL BE NOTIFIED.			
THE BOTTOM OF ALL FOUNDATIONS SHALL EXTEND A MINIMUM OF 18 INCHES BELOW THE TOP OF FINISH GRADE.			
STEPS IN WALL FOOTINGS SHALL NOT EXCEED A SLOPE OF ONE (1) PART TO TWO (2) HORIZONTAL.			
CONCRETE:			
UNLESS OTHERWISE NOTED (UON) ON THE DRAWINGS, MINIMUM NUMBER FOR REINFORCING SHALL BE AS FOLLOWS:			
FOOTINGS			3"
COLUMNS AND PIERCEMENTS OVER VERTICAL REINFORCING			40-BAR DIAMETERS
SLABS AND WALLS (EXPOSED TO EARTH, LIQUID OR WEATH)			2"
SLABS AND WALLS (NOT EXPOSED TO EARTH, LIQUID OR WEATH)			3/4"
CANOPY SLABS			1/2"
SLABS ON GRADE			2" FROM TOP
ALL REINFORCING SHALL BE TIED SECURELY IN POSITION WITH STANDARD ACCESSORIES IN CONFORMANCE WITH CRITICAL DETAILS AND STANDARD PRACTICE AND ACI 315 DURING THE PLACING OF THE CONCRETE.			
UNLESS OTHERWISE NOTED, SPLICES IN REINFORCING, WHERE PERMITTED, SHALL BE AS FOLLOWS:			
WELDED WIRE FABRIC			WIRE SPACING PLUS 6"
REINFORCING BARS SHALL BE AN ACI STANDARD HOOK, UNLESS OTHERWISE NOTED.			
DOVELLS FROM FOUNDATIONS OR SLABS TO WALLS SHALL MATCH WALL REINFORCING, UNLESS OTHERWISE NOTED. DOVELLS SHALL BE PLACED BEFORE CONCRETE IS POURED. THEY SHALL NOT BE PUSHED INTO THE CONCRETE.			
PROVIDE 3/4" CHAMFER AT ALL EXPOSED CORNERS OF BEAMS, WALL, ETC.			
SPLICES IN TOP REINFORCING SHALL BE MADE AT MID-SPAN, UNLESS OTHERWISE NOTED.			
SPLICES IN BOTTOM REINFORCING SHALL BE MADE OVER SUPPORTS, UNLESS OTHERWISE SHOWN OR NOTED.			
ROOF SHEATHING SHALL BE 19/32" MINIMUM APA RATED SHEATHING, EXPOSURE 1 WITH 3216 SPAN RATING. HOWEVER, THE MINIMUM APA RATED SHEATHING EXPOSURE 1 WITH 2416 SPAN RATING MAY BE USED FOR ASPHALT SHINGLED OR STANDING SEAM METAL ROOFS.			
FLOOR SHEATHING SHALL BE 23/32" MINIMUM APA RATED SHEATHING, EXPOSURE 1 WITH 4824 SPAN RATING OR APA RATED STRUD-FLOOR, EXPOSURE 1 WITH 24" OC SPAN RATING. SEE ARCH FOR FLOOR SHEATHING GLUING REQUIREMENTS. SEE ARCH FOR TONGUE & GROOVE (T&G) REQUIREMENTS. IF REQUIRED, SUPPORT UNSUPPORTED SHEATHING JOINTS WITHOUT TAG WITH BLOCKING.			
ROOF AND FLOOR DECKING SHALL BE NAILED WITH 8D NAILS AT 7/16" @ 12" ON DECK AND 10d NAILS AT 5/8" @ 24" ON DECK. SPACE NAILS AT 6" AT SUPPORTED EDGES OF DECK (4" AT EXTERIOR WALLS) AND 12" SPACING AT INTERMEDIATE SUPPORTS. AT GABLE ENDS, NAIL ROOF DECK AT 4" AT PANEL EDGES AND AT 6" AT INTERMEDIATE SUPPORTS FOR A DISTANCE OF 8'-0" FROM THE END WALL.			
PROVIDE 2x4 BLOCKING FOR SUPPORT OF ROOF SHEATHING AT HPS AND VALLEYS.			
WALL SHEATHING SHALL BE 7/16" MINIMUM APA RATED SHEATHING, EXPOSURE 1 WITH 2416 SPAN RATING. SHEATHING MAY BE ORIENTED VERTICALLY OR HORIZONTALLY FOR FLEXIBLE WALL FINISHES. SHEATHING MUST BE ORIENTED HORIZONTALLY FOR BRITTLE WALL FINISHES (STUCCO) UNLESS STRUCTURAL RATED SHEATHING OR 15/32" 5-PLY-LAYER PLYWOOD OR 15/32" OSB IS USED.			
NON SHEAR WALL WALL SHEATHING SHALL BE FASTENED TO BLOCKING & STUDS W/ 8d @ 6" OC AT PANEL EDGES AND AT 12" OC AT INTERMEDIATE SUPPORTS. FOR WALLS WITH SHEATHING REQUIREMENTS AT SHEAR WALLS, SEE SHEAR WALL SCHEDULE.			
SHEAR WALL SHEATHING SHALL BE CONTINUOUS THRU INTERSECTING WALLS OR PROVIDE DETAIL 6/56.2.			
PROVIDE A MINIMUM OF 2 STUDS UNDER BEAMS OR GRIDER TRUSSES CARRYING FLOOR OR ROOF LOADS. AT BEAMS WIDER THAN 3 1/2", TRIPLE TRUSS GRIDDERS AND AT ALL CORNERS PROVIDE MINIMUM OF 3 STUDS FULL HEIGHT.			

GENERAL SYMBOLS			
(Symbol)	PLAN, SECTION OR DETAIL NO.		
(Symbol)	SHEET NUMBER		
(Symbol)	NORTH ARROW		
(Symbol)	KEYED NOTE TO PLAN		
(Symbol)	FOUNDATION TYPE		
(Symbol)	REVISION NUMBER		
(Symbol)	FOOTING STEP		

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