WOOD ROOF SHEATHING

A. 19/32" (5/8") PERFORMANCE CATEGORY APA RATED SHEATHING, 40/20, EXPOSURE 1 (SLOPED ROOF AREAS, UNLESS NOTED OTHERWISE).
B. LONG SIDE OF PANEL SHALL BE PERPENDICULAR TO THE SUPPORT WITH THE END JOINT OF THE PANEL ALIGNED WITH THE CENTER OF THE TWO ADJACENT PANELS. (NO CONTINUOUS PANEL JOINTS). PANELS SHALL BE CONTINUOUS OVER TWO OR MORE SPANS.
C. MINIMUM SIZE OF CONNECTION SHALL BE 6d COMMON NAILS TO WOOD, UNLESS NOTED OTHERWISE ON PLAN. MAXIMUM SPACING OF CONNECTION SHALL BE PER THE "TYPICAL FLOOR/ROOF DIAPHRAGM CONNECTION - PLAN" DETAIL, UNLESS NOTED OTHERWISE ON PLAN. SHEATHING SHALL ALSO BE GLUED TO THE SUPPORTING JOISTS.
D MINIMUM SIZE OF CONNECTION SHALL BE #10 SCREWS TO STEEL STUDS AND JOISTS. MAXIMUM SPACING OF CONNECTION SHALL BE 4" AT PERIMETER AND 12" AT INTERMEDIATE SUPPORT, UNLESS NOTED OTHERWISE ON PLAN.
E. SUITABLE EDGE SUPPORT SHALL BE PROVIDED AS RECOMMENDED BY THE AMERICAN PLYWOOD ASSOCIATION BY USE OF PANEL CLIPS OR LUMBER BLOCKING BETWEEN JOISTS OR TRUSSES. PANEL END JOINTS SHALL OCCUR OVER FRAMING. PANELS SHALL BE BLOCKED WITH 2X6 MINIMUM AT PERIMETER OF ROOF AND AT DIRECTIONAL CHANGES.

WOOD WALL SHEATHING

A. 7/16" PERFORMANCE CATEGORY APA RATED SHEATHING, 24/16, EXPOSURE 1 (UNLESS NOTED OTHERWISE).
B. MINIMUM SIZE OF CONNECTION SHALL BE 8d COMMON NAILS TO WOOD SHEAR WALLS. MAXIMUM SPACING OF CONNECTION SHALL BE PER THE WOOD SHEAR WALL SCHEDULE. ALL UNSUPPORTED EDGES SHALL BE BLOCKED WITH 2x MEMBERS.
C. MINIMUM SIZE OF CONNECTION SHALL BE 8d COMMON NAILS TO WOOD EXTERIOR NON-SHEAR WALLS. MAXIMUM SPACING OF STANDARD CONNECTION SHALL BE 12" AT PERIMETER OF SHEETS AND 12" AT INTERMEDIATE STUDS. ALL UNSUPPORTED EDGES SHALL BE BLOCKED WITH 2x MEMBERS.
D. MINIMUM SIZE OF CONNECTION SHALL BE #8 SCREWS TO STEEL STUDS. MAXIMUM SPACING OF STANDARD CONNECTION SHALL BE 6" AT PERIMETER OF SHEETS AND 12" AT INTERMEDIATE STUDS. ALL UNSUPPORTED EDGES SHALL BE BLOCKED WITH STEEL STUD MEMBERS.

WOOD FRAMING

A. CONFORM TO NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION, PUBLISHED BY THE AMERICAN WOOD COUNCIL, AWC NDS AND AWC SPECIAL DESIGN PROVISIONS FOR WIND & SEISMIC.
B. UNLESS NOTED OTHERWISE, USE SPRUCE-PINE-FIR , 19% MAX. MOISTURE CONTENT, AS FOLLOWS:

1. BEAMS, HEADERS	NO. 1/NO. 2
2. LOAD BEARING STUDS, & EXTERIOR STUDS	NO. 1/NO. 2
3. JOISTS, PURLINS	NO. 1/NO. 2
4. SUB-PURLINS, PLATES, BLOCKING	NO. 1/NO. 2
5. NON-LOAD BEARING INTERIOR STUDS	STUD GRADE

C. ANY WOOD IN CONTACT WITH CONCRETE, MASONRY, SOIL, OR EXPOSED TO THE ELEMENTS SHALL BE PRESSURE TREATED.
D. METALS (PLATES, NAILS, BOLTS, ETC) IN CONTACT WITH PRESSURE TREATED, FIRE-RETARDANT OR WOLMANIZED WOOD SHALL HAVE G185 ZINC GALVANIZED COATING. ALL OTHER METALS IN CONTACT WITH WOOD SHALL HAVE G90 ZINC GALVANIZED COATING.
E. METAL CONNECTORS SHALL BE FASTENED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS TO DEVELOP THE MAXIMUM PUBLISHED CAPACITY.
F. TIMBER FASTENING SHALL BE PER GOVERNING BUILDING CODE "MINIMUM FASTENING SCHEDULE" UNLESS NOTED AS GREATER ON CONSTRUCTION DRAWINGS. CONNECTORS TO BE SIMPSON OR APPROVED ALTERNATE, WITH MINIMUM CAPACITY AS NOTED.
G. TOE NAILS SHALL BE DRIVEN AT AN ANGLE OF 30 DEGREES TO THE PIECE AND BE STARTED AT 1/3 THE NAIL LENGTH FROM THE END OF THE PIECE.
H. ALL BOLTS SHALL BE FURNISHED WITH STANDARD NUT WASHER.
I. ALL NAILS SHALL BE COMMON WIRE NAILS.
J. GENERAL STRUCTURAL WOOD NOTES:
1. (3)-2x, (2)-2x AND (2)-2x + 1/2" PLYWOOD PLATE BEAMS SHALL BE SPIKED TOGETHER W/12d NAILS @ 12" OC TOP & BOTTOM. (4)-2x AND LARGER BEAMS SHALL BE BOLTED TOGETHER W/ 1/2" DIAMETER BOLTS @ 2'-6" OC MAX. TOP & BOTTOM.
2. ROOF BEAMS WITH SPANS GREATER THAN 5'-0" SHALL BE ANCHORED EACH END WITH (1)-1/4" X 16 GA. (MIN.) STRAP WITH (4)-8D NAILS INTO BEAM AND INTO JAMB STUDS.
3. MULTIPLE STUD OR SOLID COLUMNS SHALL BE CONTINUOUS FROM FRAMING LEVEL, WHERE SHOWN, TO THE FOUNDATION. THIS WILL REQUIRE SOLID BLOCKING WITHIN THE FLOOR FRAMING EQUAL TO THE COLUMN DIMENSION (SEE TYPICAL DETAIL).
4. MULTIPLE STUD PACK COLUMNS SHALL BE CONNECTED LATERALLY TO ONE ANOTHER WITH 16d NAILS AT 16" OC VERTICALLY.
K. PROVIDE ONE ROW OF BRIDGING FOR EACH 8'-0" SPAN FOR ROOF JOISTS.
L. WALL SHEATHING NOTED ON STRUCTURAL DRAWINGS OR SCHEDULES SHALL BE ATTACHED DIRECTLY TO THE FACE OF FRAMING MEMBERS. SEE ARCHITECTURAL DRAWINGS FOR ALL NON-STRUCTURAL SHEATHING REQUIREMENTS. ADDITIONAL SHEATHING REQUIRED BY ARCHITECTURAL DRAWINGS SHALL BE ATTACHED TO THE OUTSIDE FACE OF STRUCTURAL SHEATHING.
M. AT CONTRACTOR'S OPTION, FINGER-JOINTED LUMBER MAY BE USED FOR WALL STUDS ONLY.
N. ALL NON-LOAD BEARING, AND NON-SHEAR WALLS MAY BE ANCHORED USING POWDER-DRIVEN FASTENERS, 3/4" MAX. EMBEDMENT DEPTH.
O. ALL WALL DOUBLE TOP PLATES SHALL BE LAPPED AT CORNERS AND INTERSECTIONS AND FASTENED PER GOVERNING BUILDING CODE "MINIMUM FASTENING SCHEDULE" UNLESS NOTED OTHERWISE. ALL DOUBLE PLATE END JOINTS SHALL BE OFFSET AT LEAST 48". DOUBLE PLATES TO BE FASTENED TOGETHER PER GOVERNING BUILDING CODE "MINIMUM FASTENING SCHEDULE", UNLESS NOTED OTHERWISE. AT LOAD-BEARING WALLS, FASTEN EA. PLATE TO PLATE WITH SEE KEY DETAIL.
P. JOISTS OR STUDS SHALL NOT BE CUT TO INSTALL PLUMBING OR WIRING UNLESS METAL OR WOOD SIDE PIECES/PLATES ARE PROVIDED TO STRENGTHEN THE MEMBER.
Q. WALL FRAMING MAY BE PANELIZED (WITHOUT GYPSUM WALLBOARD). SUBMIT PANEL DRAWINGS FOR REVIEW.
R. LET-IN BRACING FOR WALL PANELS IS NOT ALLOWED. SHEATHING FASTENED TO FACE OF WALL AT SHOP MAY SERVE AS PANEL BRACING.

PARALLEL STRAND LUMBER (PARALLAM)

A. PARALLEL STRAND LUMBER SHALL BE MANUFACTURED BY WEYERHAEUSER OR AN APPROVED EQUAL.
B. 1.8E PARALLEL STRAND LUMBER FOR SIZES 3 1/2" x 3 1/2", 3 1/2" x 5 1/4", 3 1/2" x 7", 5 1/4" x 5 1/4", 5 1/4" x 7" AND 7" x 7" SHALL HAVE THE FOLLOWING PROPERTIES:

ALLOWABLE BENDING STRESS	2400 PSI
ALLOWABLE COMPRESSION PARALLEL TO GRAIN	2500 PSI
ALLOWABLE HORIZONTAL SHEAR	190 PSI
ALLOWABLE COMPRESSION PERPENDICULAR TO GRAIN	545 PSI
MODULUS OF ELASTICITY	1,800,000 PSI
SHEAR MODULUS OF ELASTICITY	112,500 PSI
EQUIVALENT SPECIFIC GRAVITY	0.5

C. 2.0E PARALLEL STRAND LUMBER FOR ALL OTHER SIZES SHALL HAVE THE FOLLOWING PROPERTIES:

ALLOWABLE BENDING STRESS	2900 PSI
ALLOWABLE COMPRESSION PARALLEL TO GRAIN	2900 PSI
ALLOWABLE HORIZONTAL SHEAR	290 PSI
ALLOWABLE COMPRESSION PERPENDICULAR TO GRAIN	625 PSI
MODULUS OF ELASTICITY	2,000,000 PSI
SHEAR MODULUS OF ELASTICITY	125,000 PSI
EQUIVALENT SPECIFIC GRAVITY	0.5

D. PARALLEL-STRAND LUMBER SHALL NOT HAVE HOLES OR NOTCHES CUT INTO THE BEAM WITHOUT APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD.

LAMINATED VENEER LUMBER (MICROLLAM)

A. LAMINATED VENEER LUMBER SHALL BE 2.0E MICROLLAM LVL AS MANUFACTURED BY WEYERHAEUSER OR AN APPROVED EQUAL.
B. LAMINATED VENEER LUMBER SHALL HAVE THE FOLLOWING PROPERTIES:

ALLOWABLE BENDING STRESS	2600 PSI
ALLOWABLE COMPRESSION PARALLEL TO GRAIN	2510 PSI
ALLOWABLE HORIZONTAL SHEAR	285 PSI
ALLOWABLE COMPRESSION PERPENDICULAR TO GRAIN	750 PSI
MODULUS OF ELASTICITY	2,000,000 PSI
SHEAR MODULUS OF ELASTICITY	125,000 PSI

C. LAMINATED VENEER LUMBER SHALL NOT HAVE HOLES OR NOTCHES CUT INTO THE BEAM WITHOUT APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD.

PRE-ENGINEERED WOOD ROOF TRUSSES

A. TRUSSES SHALL BE SPACED @ 24" OC (UNLESS NOTED OTHERWISE IN THE CONSTRUCTION DRAWINGS). SEE PLANS FOR TRUSS LOCATION AND SPANS AS WELL AS SPECIAL TRUSS LOCATIONS REQUIRED FOR NON-TYPICAL ROOF LOADING.
B. ROOF TRUSS DESIGN GRAVITY LOADS SHALL BE AS FOLLOWS:
1. AT TYPICAL ROOF AREAS: SEE LOAD MAPS ON S002A
2. TRUSSES SHALL BE DESIGNED FOR ADDITIONAL WIND LOAD AND SEISMIC LOAD AS APPLICABLE (SEE DESIGN LOAD GENERAL NOTES).
3. FOR ALL ROOF TRUSSES, SEE MECHANICAL DRAWINGS AND ROOF PLAN FOR EQUIPMENT WEIGHTS, LOCATIONS AND ACCESS PATHS IN ROOF TRUSSES. IF EQUIPMENT WEIGHTS PLUS 30 PSF LIVE LOAD ARE MORE SEVERE THAN THE 60 PSF UNIFORM LIVE LOAD, USE THE WORST CASE LOAD FOR TRUSS DESIGN. DESIGN PITCHED ROOF TRUSSES FOR UNBALANCED SNOW LOAD PER GOVERNING BUILDING CODE OR LIVE LOADS NOTED, WITH THE WORST CASE LOAD GOVERNING DESIGN.
C. SPECIAL LOADS FROM FIRE SPRINKLER, MECHANICAL, PLUMBING, OR OTHER EQUIPMENT HAVE NOT BEEN CONSIDERED AND SHALL BE COORDINATED BY THE TRUSS DESIGNER. TRUSSES SUPPORTING THESE SPECIAL LOADS SHALL BE DESIGNED FOR THESE LOADS IN ADDITION TO THE TYPICAL UNIFORM LOADS.
D. MAXIMUM DEFLECTION OF TRUSSES SHALL BE L/240 FOR DL+LL AND L/360 FOR LL.
E. MINIMUM TRUSS CHORDS SIZE SHALL BE 2X4.
F. WOOD TRUSSES SHALL BE FULLY ENGINEERED AND FABRICATED BY THE MANUFACTURER. SIGNED AND SEALED SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT/STRUCTURAL ENGINEER OF RECORD AND SHALL INCLUDE TRUSS SPACING, SIZE OF MEMBERS, CONNECTIONS, AND ALL BRACING. DESIGN SHALL CONSIDER DEAD LOAD, LIVE LOAD, AND ALL SPECIAL LOADS INCLUDING FROM FIRE SPRINKLERS, MECHANICAL, AND PLUMBING. CALCULATIONS SHALL BE SUBMITTED TO THE ARCHITECT/STRUCTURAL ENGINEER OF RECORD AND SHALL BE SIGNED AND SEALED BY A REGISTERED DESIGN PROFESSIONAL LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED.
G. METAL CONNECTOR PLATES (TRUSS CONNECTORS, MENDING PLATES) SHALL BE MANUFACTURED FROM NO LESS THAN 20 GAUGE G60 GALVANIZED STEEL (1.25 OZ. PER SF) AND 33,000 PSI YIELD STRENGTH. CONNECTORS SHALL HAVE NAIL LIKE PROJECTIONS. METAL CONNECTORS SHALL CONFORM TO TRUSS PLATE INSTITUTE STANDARD TPI 1.
H. WOOD TRUSSES ALONG A VERTICAL PLANE OF THE BUILDING SHALL BE CONTINUOUS. TRUSSES MAY BE SPLICED FOR SHIPPING PURPOSES AND CONNECTED IN THE FIELD WITH METAL CONNECTOR PLATES.
I. ALL CONNECTIONS BETWEEN TRUSSES SHALL BE DESIGNED AND SPECIFIED BY THE TRUSS DESIGN ENGINEER, INCLUDING REQUIRED HARDWARE.
J. WHERE THE ROOF TRUSS CONNECTS TO ANOTHER TRUSS OR BEAM, IT SHALL BE CONNECTED WITH A METAL TRUSS ANCHOR CAPABLE OF RESISTING GRAVITY AND WIND LOADS (AS WELL AS SEISMIC WHERE APPLICABLE). ANCHOR TO BE SELECTED AND DESIGNED BY TRUSS DESIGNER.
K. TRUSS DESIGNER SHALL INDICATE THAT ALL HIPS, VALLEYS, AND RIDGES NOT SUPPORTED BY A TRUSS MEMBER SHALL HAVE A DOUBLE 2x8 FRAMING MEMBER SPANNING BETWEEN TRUSSES WITH SIMPSON CLIP CONNECTION EACH END.
L. ALL TRUSS SHOP DRAWINGS INCLUDING LATERAL BRACING DETAILS SHALL BE AVAILABLE AT THE JOBSITE DURING TIMES OF INSPECTION AND SHALL BEAR CLEAR INDICATION THAT THEY HAVE BEEN REVIEWED AND APPROVED BY THE ARCHITECT/STRUCTURAL ENGINEER OF RECORD.
M. ROOF TRUSSES SHALL BE FABRICATED AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
N. CONCENTRATED LOADS SHALL BE SUPPORTED AT PANEL POINTS ONLY. ANY LOADS SUSPENDED FROM TRUSSES MUST BE APPLIED TO EACH TRUSS UNIFORMLY, SPACING OF HANGERS NOT TO EXCEED 2'-0" OC IN ANY DIRECTION.
O. GENERAL CONTRACTOR SHALL NOT CUT OR ALTER ANY TRUSS MEMBER.
P. GENERAL CONTRACTOR SHALL INSTALL TEMPORARY BRACING TO HOLD THE TRUSSES TRUE AND PLUMB AND IN A SAFE CONDITION UNTIL PERMANENT TRUSS BRACING AND BRIDGING CAN BE SOLIDLY NAILED IN PLACE TO FORM A STRUCTURALLY SOUND FRAMING SYSTEM. REFER TO SBCA/TPI BCSI-B1 "GUIDE FOR HANDLING, INSTALLING, RESTRAINING AND BRACING OF TRUSSES", BCSI-B7 "GUIDE FOR HANDLING, INSTALLING & BRACING OF 3x2 & 4x2 PARALLEL CHORD TRUSSES" AND ADDITIONAL BRACING DETAILS PROVIDED BY THE TRUSS MANUFACTURER. TEMPORARY BRACING FOR TRUSSES WITH CLEAR SPANS OF 60 FEET OR GREATER IN LENGTH SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE CONSTRUCTION IS TO OCCUR.
Q. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT BRACING AT ALL LOCATIONS SHOWN ON THE TRUSS DESIGN DRAWINGS. REFER TO SBCA/TPI BCSI-B3 "PERMANENT RESTRAINT/BRACING OF CHORDS & WEB MEMBERS" AND ADDITIONAL BRACING DETAILS PROVIDED BY THE TRUSS MANUFACTURER. PERMANENT BRACING FOR THE TRUSSES WITH CLEAR SPANS OF 60 FEET OR GREATER IN LENGTH SHALL BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL HIRED BY THE GENERAL CONTRACTOR AND LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. ALL PERMANENT BRACING SHALL BE INSTALLED AND ALL COMPONENTS PERMANENTLY FASTENED BEFORE THE APPLICATION OF ANY LOADS TO THE TRUSSES.

Brown AND Caldwell
BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

CONSTRUCTION DOCUMENTS

NCWSA NEWTON COUNTY WATER & SEWERAGE AUTHORITY

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: Designer
DRAWN: Author
CHECKED: Checker
CHECKED:
APPROVED: Approver
FILENAME
BC PROJECT NUMBER 616202
CLIENT PROJECT NUMBER

WOOD GENERAL NOTES

DRAWING NUMBER
S006

Plot Date: 4/27/2026 6:47:32 PM Path: Autodesk Docs://NCWSA Admin Bldg_ V25/0250683-NCWSA Office Addition-R25-STRUCT.rvt