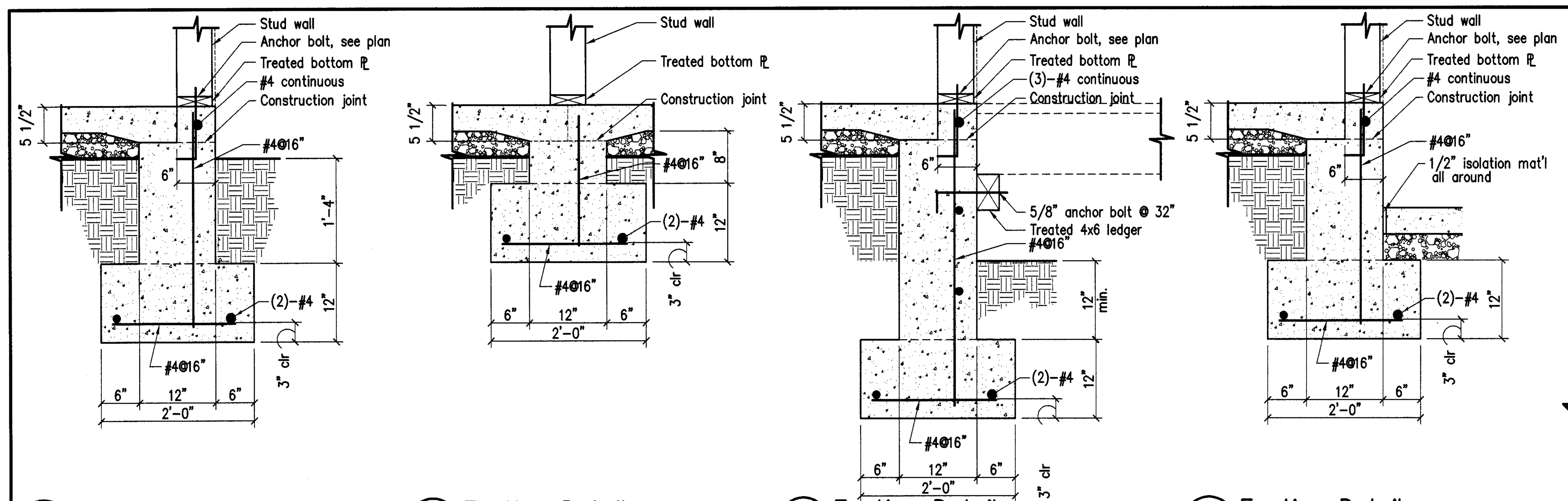
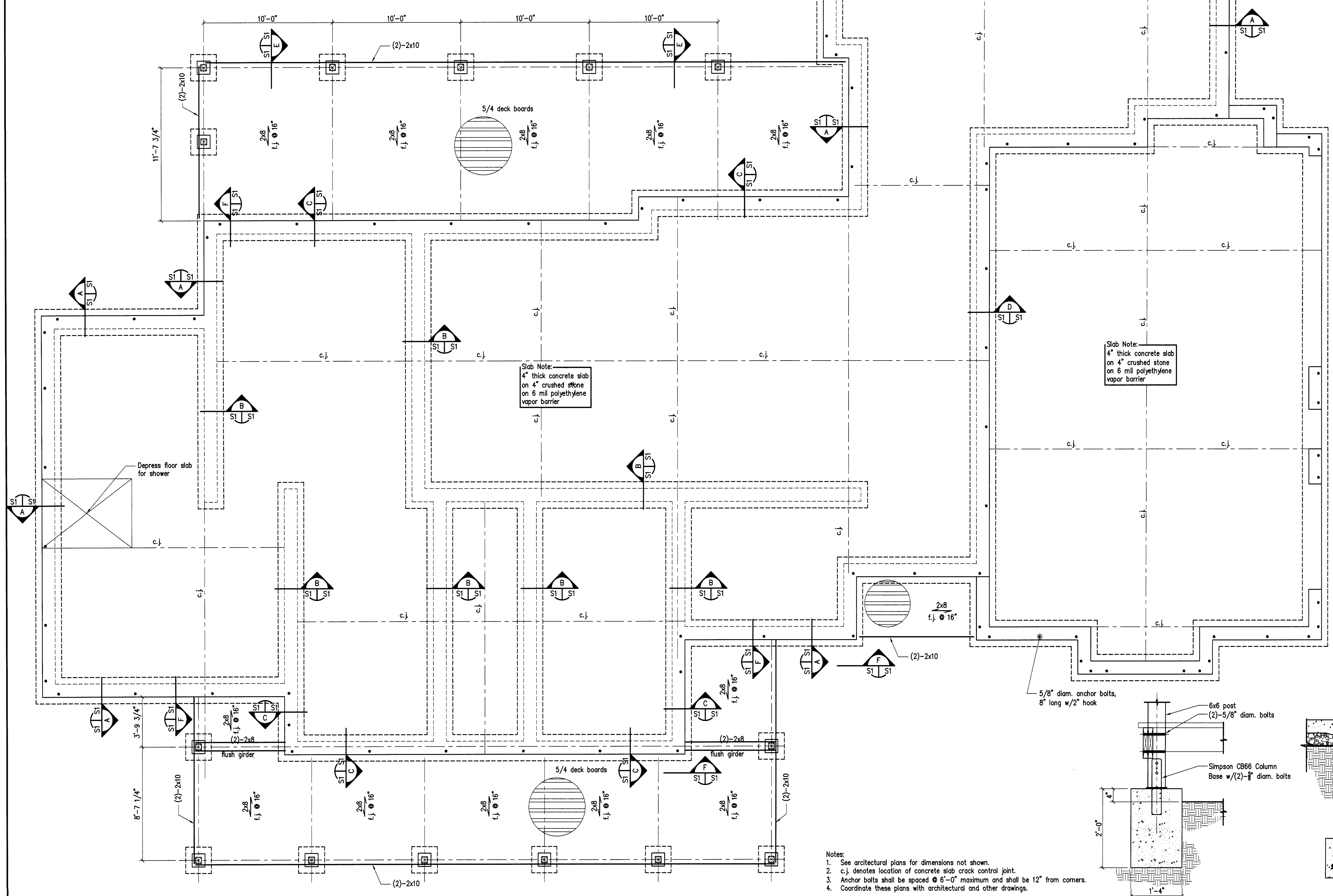


A Footing Detail S1 S1 — Scale: 3/4"=1'-0"

B Footing Detail S1 S1 — Scale: 3/4"=1'-0"

C Footing Detail S1 S1 — Scale: 3/4"=1'-0"

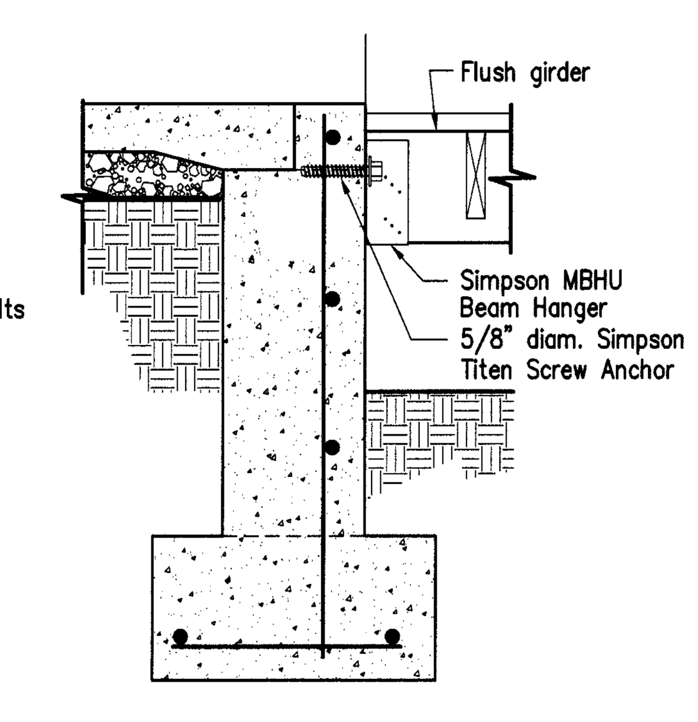
D Footing Detail S1 S1 — Scale: 3/4"=1'-0"



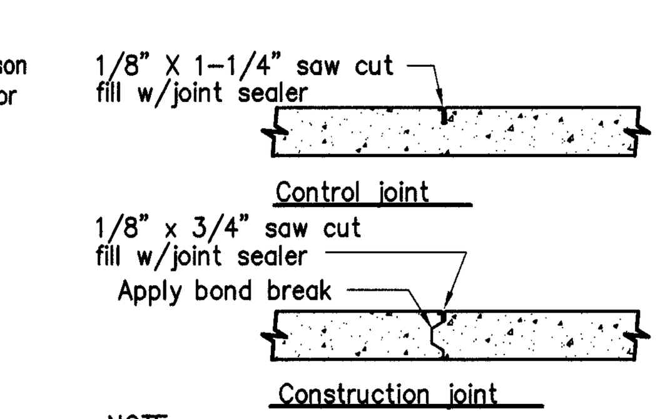
Notes:
1. See arcitectural plans for dimensions not shown.
2. c.j. denotes location of concrete slab crack control joint.
3. Anchor bolts shall be spaced @ 6'-0" maximum and shall be 12" from corners.
4. Coordinate these plans with architectural and other drawings.

Foundation Plan — Scale: 1/4"=1'-0"

E Post Footing S1 S1 — Scale: 3/4"=1'-0"



F Girder Bearing Detail S1 S1 — Scale: 3/4"=1'-0"



NOTE:
1. Saw cut joints within 24 hrs of placement. Clean and seal after seven days.

G Slab Joints S1 S1 — Scale: none

GENERAL NOTES AND OUTLINE SPECIFICATIONS

01000 GENERAL

1. Design Live Loads
   Floor 40 psf
   Attic, storage 30 psf
   Roof 20 psf
2. Roof Snow Loads (2018 NC Building Code, 2015 IBC, ASCE 7–10)
   Ground Snow Load: 15 psf
3. Wind loads (2018 NC Building Code, 2015 IBC, ASCE
   Wind Velocity (Vult): 120 mph; Exposure: B
4. Earthquake Loads (2018 NC Building Code, 2015 IBC, ASCE 7–10), exempt R301.2.2
5. Lateral design controlled by Wind Loads.
6. These drawings shall be used in conjunction with the project specifications and Architectural and other Engineering Drawings.
7. Contractor is responsible for dissemination of revisions to contract documents and requirements to all Subcontractors.

02000 FOUNDATION

1. Design soil bearing capacity: 2,000 psf (presumed).
2. Footings shall be carried to a lower elevation than those indicated on the drawings if required to reach firm undisturbed soil bearing as herein specified.
3. All slabs on grade shall be placed on a 4" base of well compacted gravel. The gravel shall be placed on an approved vapor barrier on the original soil or on earth fill.

03000 CONCRETE

1. Proportion concrete for normal weight (145 pcf) concrete with the following properties:

Element	Slump (in.)	Air (% vol)	w/c ratio	Comp. strength at 28 days	Max. agg size(in.)
Footings, foundation walls	3–4	4–6	0.55	3,500 psi	1–1/2
Slab on grade	3–4	4–6	0.50	4,000 psi	1–1/2

2. Detailing, fabrication and erection of reinforcing bars shall conform to ACI "Manual of Standard Practice for Detailing Reinforced Concrete Structures" (ACI–315) and the "Building Code Requirements for Reinforced Concrete" (ACI–318).
3. Reinforcing bars shall be rolled from new billet steel conforming to Specification for "Deformed Billet Steel Bars for Concrete Reinforcement", ASTM A 615, Grade 60.
4. Welded wire fabric shall conform to ASTM A 185 and A 82.
5. Details, workmanship and procedure of concrete placement shall conform to the latest editions of ACI– 315, ACI–318 and ACI–301.
6. Floor slabs shall be finished with a steel trowel.
7. Clear distance from face of concrete to main reinforcing:
   Footings, walls cast against earth: 3" UON
8. Isolation joint strips shall be 1/2" thick, UON.
9. Lap all reinforcing splices at least 50 bar diameters (18" minimum).
10. Crack control joints shall be placed in slabs on grade at a maximum spacing of 12' unless noted on plans.

06110 WOOD FRAMING AND PLYWOOD

1. Lumber shall conform to requirements of the Southern Pine Inspection Bureau (SPIB).
2. Framing shall be kiln–dried, Southern Pine species, #2 grade, surfaced dry, 15 percent maximum moisture content.
3. Nailing for wood construction shall be in accordance with the applicable building code fastening schedule unless otherwise noted on the plans.
4. Nails, screws and hardware shall be zinc electroplated steel for exterior locations or for use with treated wood. Bolts, washers, and nuts shall be hot–dipped galvanized. Fasteners may be of unfinished steel elsewhere.
5. Double members at openings over 16 inches wide. Space short studs adjacent to opening to match stud spacing.
6. Construct double joist headers at floor and ceiling openings and under wall stud partitions that are parallel to floor joists. Frame rigidly into joists.
7. Provide and install bridging at floor and roof framing spanning in excess of 8 feet at mid–span. Fit solid blocking at ends of members.

06120 STRUCTURAL WOOD PANELS

1. Plywood for sheathing shall conform to the grading rules of U.S. Product Standard PS 1, latest edition, and shall have appropriate grade trade mark of an American Plywood Association approved agency on each plywood panel. Sheathing shall be APA rated sheathing in thicknesses and span ratings shown on drawings. Sheathing shall be applied in full sheets or in largest pieces practical for the area being covered.
2. Sheathing shall be APA Rated Sheathing, Span Rating as shown on plans.
3. Secure sheathing perpendicular to framing members with ends staggered and sheet ends over firm bearing. Use sheathing clips between sheets between roof framing members.
4. Secure wall sheathing with long dimension perpendicular to wall studs with ends over firm bearing and staggered.
5. Install plywood to two span continuous minimum.

06171 LAMINATED VENEER LUMBER

1. Laminated veneer lumber (LVL) members shall be furnished as shown on the plans. Sizes shown on plans are actual sizes (width x height) in inches.
2. Materials, manufacture and quality control shall be in a plant evaluated for fabrication by the governing code evaluation service and under the supervision of a third party inspection agency listed by the corresponding evaluation agency.
3. Laminated veneer lumber (LVL) members shall conform to the following design values:
   Fb (Bending) 2,600 psi
   Fc (Compression Parallel to Grain 3,000 psi
   Fv (Horizontal Shear) 280 psi
   E (Modulus of Elasticity) 2,000,000 psi
5. Store LVL members under cover and clear of ground.
6. LVL members shall be structural grade and unfinished unless otherwise noted on plans.
7. Install members in accordance with manufacturer's instructions. Erection bracing shall be provided to assure adequate lateral support for individual members and the entire system until the sheathing and other framing members are installed.

06175 PREFABRICATED WOOD TRUSSES

1. Shop drawings for wood trusses shall bear the seal of an engineer registered in the State of North Carolina shall be reviewed by the Engineer before fabrication. Shop drawings shall show species and moisture content of wood being used. Allowable stresses shall conform to the latest edition of "National Design Specification for Stress–Grade Lumber and Its Fastening", as recommended by the National Forest Products Association.
2. The contractor shall provide all connections, connector plates, anchors and accessories as required for the support of the wood trusses and wood framing.
3. The contractor shall provide a design for the wood trusses for the full truss dead load and the following loads plus the live loads noted in section 01000 General:
   Superimposed Dead Load: Top Chord 5 psf
   Bottom Chord 10 psf
   Deflection Limits: Roof Trusses L/480

NORTH CAROLINA PROFESSIONAL ENGINEER 13779 GREGORY A. ROBINSON
04AUG22

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Lloyd Stewart Road
Broadway, North Carolina

Rev.	Date	Remarks

Foundation Plan
Details, Notes

Drawn GAR Date 05AUG22 Check GAR Date 05AUG22
GARPE Project # 22026 Filename S-SHT1-2
Issued for review Date
Issued for review Date

S1

1 of 3