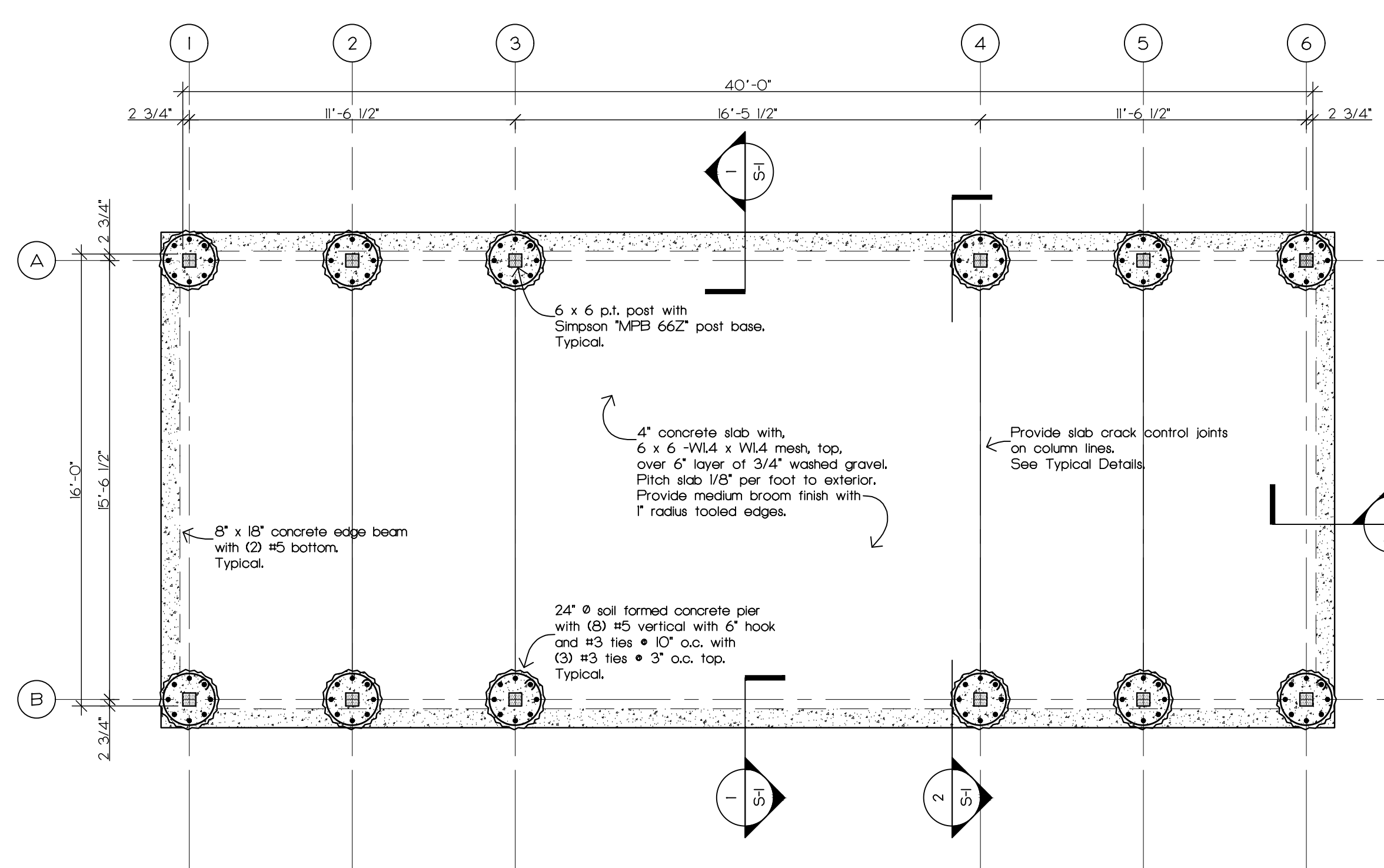


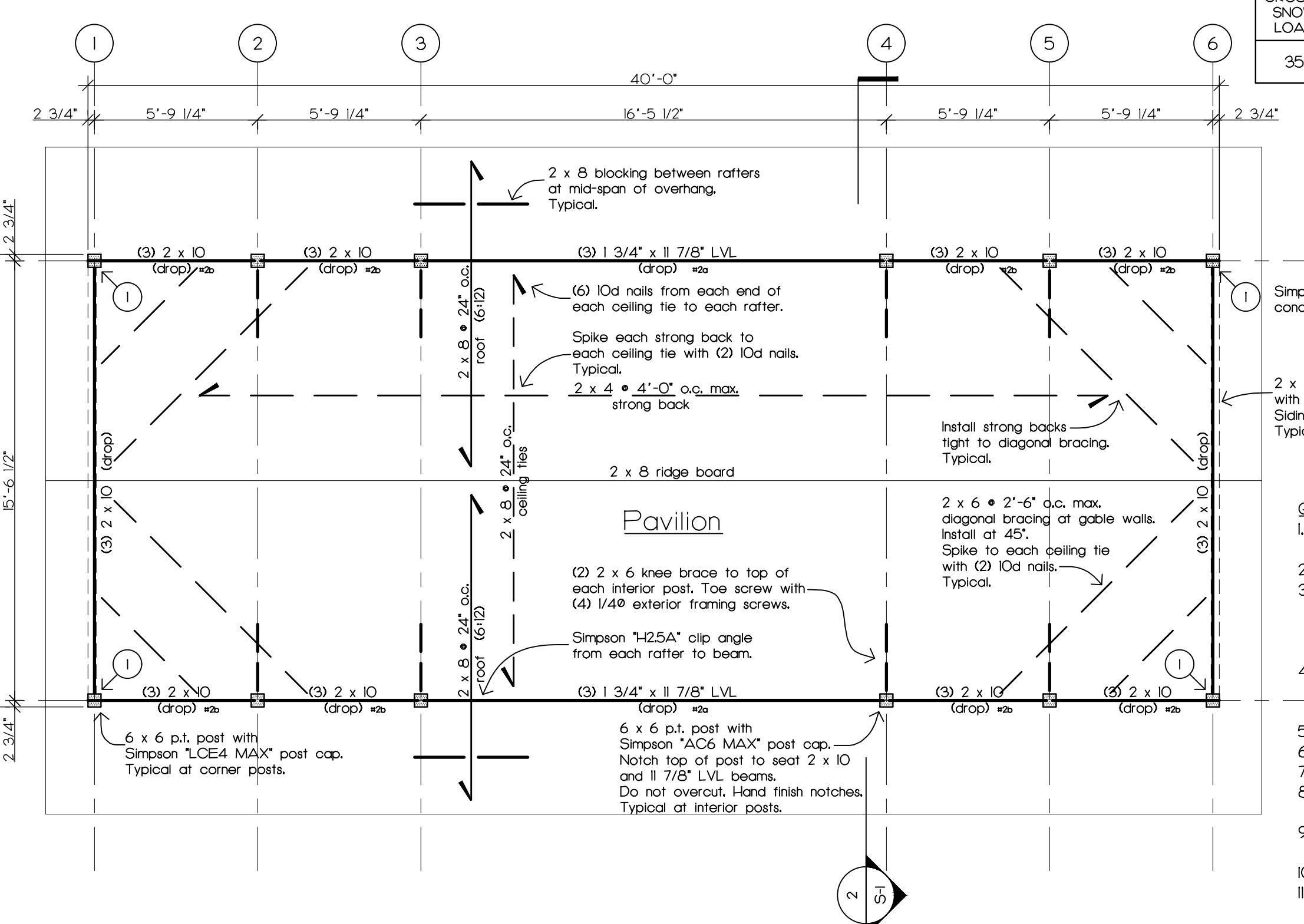
CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA

GROUND SNOW LOAD	WIND Speed (mph)	SEISMIC DESIGN CATEGORY	SUBJECT TO DAMAGE FROM			WINTER DESIGN TEMP.	ICE SHIELD UNDERLAYMENT REQUIRED	FLOOD HAZARDS	
			Weathering	Frost Line Depth	Termites				Decay
35	90	IIb	Severe	42"	Moderate - Heavy	Slight - Moderate	7'	Yes	No



FOUNDATION PLAN
1/4" = 1'-0"

- Notes:
- All footings shall bear on undisturbed soil with minimum safe bearing capacity of 2.0 tons per square foot. Contractor shall verify conditions. Notify Archer Engineering of any problems or concerns.
 - All footings shall be adequately protected from frost action in accordance with Building Code.
 - All reinforcing steel shall be free of rust, dirt and any other coating that may hinder concrete bond.
 - All reinforcement and inserts shall be placed and secured as per the Drawings and Specs, and the standards of the American Concrete Institute.
 - Save copies of all concrete delivery slips. Indicate date, time, and area of placement, concrete mix and admixtures, concrete and air temperatures. Submit upon request.
 - Provide 3500 psi stone concrete with minimum slump possible for exterior slabs.
 - All other concrete shall be 3000 psi stone concrete with minimum slump possible. All concrete exposed to weather and soil shall be 5% ± air entrained.
 - Concrete shall be handled, placed and finished as per ACI standards. Concrete shall not be allowed to free fall a distance greater than 3 feet. Concrete shall be continuously placed and vibrated.
 - Preparations for hot/cold weather operations, as per ACI standards, shall be sufficiently made prior to concrete placement. Maintain protection as per standards. Execute operations so as to prevent concrete and concrete block damage.
 - Provide 4" concrete slab on grade with 6 x 6 - W14 x W14 wire mesh, top, over 6" layer of 3/4" washed gravel. Provide medium broom finish with 1" radius tooling edge.



ROOF FRAMING PLAN
1/4" = 1'-0"

- Notes:
- Provide 2 x 8 rafters typical, unless otherwise noted.
 - Provide 2 x 8 ceiling joists typical, unless otherwise noted.
 - Provide 3/4" APA rated plywood sheathing thru out, unless otherwise noted.
 - Rafter pitch is 6/12.

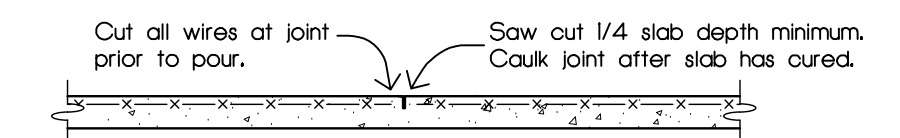
STRUCTURAL NOTES

- General
- All work shall conform to the requirements of the 2018 Connecticut State Building Code and applicable local Building Codes and Regulations.
 - All Structural drawings shall be used in conjunction with Specifications, Architectural, Site, and Mechanical drawings.
 - All dimensions and conditions shall be verified by the Contractor.
 - Contractor shall notify Archer Engineering if review and sign off by the Engineer is required by the Building Department, other governing agencies, and/or Owner as soon as they are notified. Contractor shall coordinate Construction Work and inspections accordingly, Contractor shall review Construction Work prior to review by Archer Engineering.
 - All work shall be new unless specifically noted or indicated as existing.
 - Contractor shall be responsible to coordinate and provide all work necessary to properly complete the project.
 - All sections and details shall be considered typical and apply for the same and similar conditions, unless otherwise noted.
 - Contractor shall be responsible for coordinating the size, location and conditions of all framing openings prior to construction. Notify Archer Engineering of any problematic areas or concerns prior to installation.
 - Contractor shall furnish and be solely responsible for all temporary bracing and shoring required to maintain stability of the structure during construction.
 - Contractor shall be solely responsible for all construction site safety, scheduling, means and methods.
 - Archer Engineering is not responsible for recognizing, discovering, determining, protecting, handling and/or abating any hazardous material, including but not limited to: lead, asbestos, mildew, mold, etc.

- Foundation
- All footings shall bear on undisturbed soil of minimum safe bearing capacity of 2.0 tons per square foot. Contractor shall verify conditions. Notify Archer Engineering of any problems or concerns.
 - All footings shall be protected from frost as per Building Code.
 - Backfill with clean, compactable granular material. Backfill and compact in layers, not to exceed 10".
 - Excavation shall be protected from frost in cold weather. Formed areas shall be kept clean of mud, water, ice, frozen soil, and other debris.

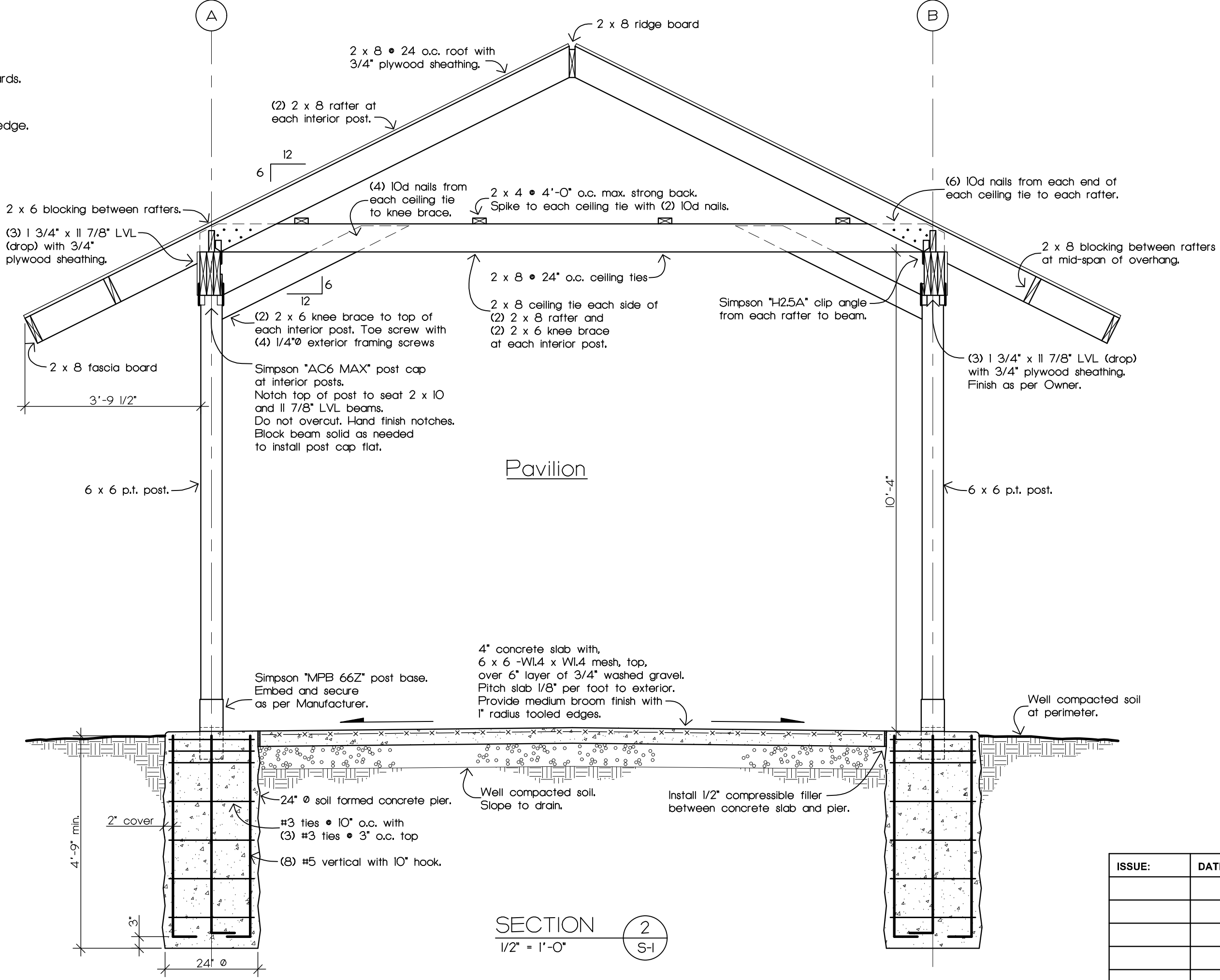
- Concrete
- Material: concrete for exterior slabs: 1" c = 3500 psi • 28 days. all other concrete: 1" c = 3000 psi • 28 days. rebar: ASTM A615, Grade 60. wire mesh: ASTM A185 and A82.
 - Workmanship: American Concrete Institute ACI 318.
 - All concrete exposed to weather and soil shall be 5% ± air entrained.
 - All metal ties, anchors, embedments, etc. shall be corrosion resistant.
 - Calcium chloride or admixtures containing chloride shall not be used.
 - Concrete shall be handled, placed and finished as per ACI standards. Concrete shall not be allowed to free fall a distance greater than 3 feet. Concrete shall be continuously placed and vibrated.
 - Vibrate and consolidate all concrete piers that are 3'-0" or taller as per ACI standards.
 - Follow appropriate hot/cold weather concreting procedures as per ACI.
 - Curing, finishing and saw cutting of concrete shall start as soon as surface will not be marred by the work. It will not be permissible to delay these procedures until the next morning.

- Lumber
- Material: Douglas Fir Larch No. 2 or better (Fb = 900 psi*, E = 1,600,000 psi) *modified by applicable factors. Pressure treated Yellow Pine No. 2 or better 3/4" APA rated plywood wall and roof sheathing (OSB is acceptable) Hangers and connectors by Simpson Strong Tie Co. or USP Structural Connectors Construction screws by FastenMaster or Simpson PL Premium construction adhesive by Henkel Bolts: ASTM A307
 - Workmanship: National Design Specification for Wood Construction TrusJoist specifications Simpson Strong Tie specifications USP Structural Connectors specifications.
 - All lumber exposed to weather or in contact with concrete shall be pressure treated.
 - Sizes, quantities and locations of fasteners shall be as per Fastening Schedule Table 2304.10.1 of 2018 Connecticut State Building Code unless otherwise noted on Structural Drawings.
 - All framing members shall be aligned vertically and shall be installed plumb, square and level.
 - All framing lumber shall be installed solid with its full depth and thickness for its full length or span except as noted on these Drawings or as allowed by Building Code. Notify Archer Engineering if any cuts, notches, holes, etc. exceed or vary from the specifications on these Drawings or allowed by Building Code.
 - All flush framing shall be supported on metal hangers of appropriate size and capacity by Simpson Strong Tie Connectors, Inc., USP Structural Connectors or approved equal.
 - Install all framing connectors as per manufacturer's instructions, unless otherwise noted on Structural Drawings. Only manufacturer approved nails, screws, and/or bolts may be used with framing connectors.
 - All framing connectors exposed to a corrosive environment such as soil, moisture or pressure treated lumber to be protected with appropriate permanent coating.
 - Provide bridging and blocking in all framing as per Code and at 8'-0" o.c.
 - All splicing of framing members shall occur at support points only.



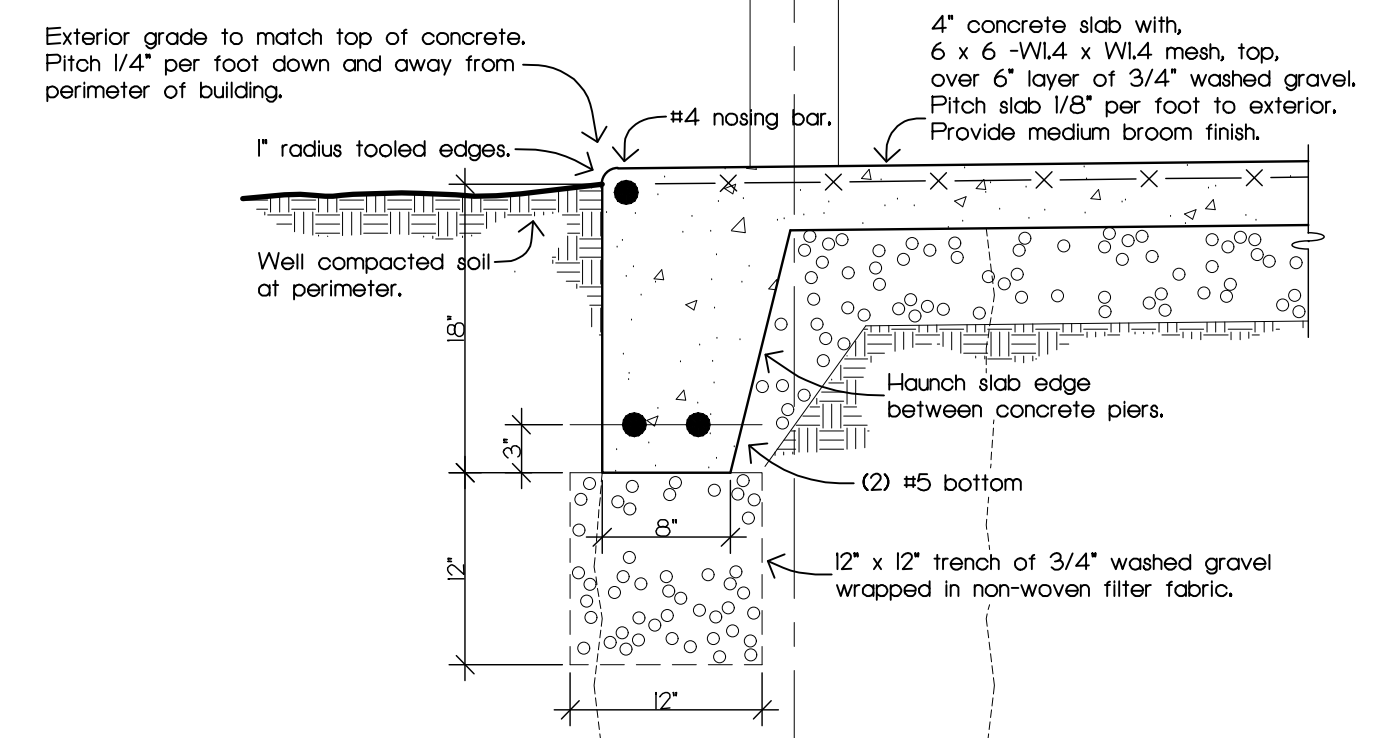
- Notes:
- Locate slab joints as per Architect and good construction practice.
 - Saw out as soon as possible after pour without marring finish. 6 hour maximum between slab pour and joint cutting.
 - Contact Archer Engineering for any questions or concerns.

TYPICAL SLAB CRACK CONTROL JOINT DETAIL



SECTION 1
1" = 1'-0"

SECTION 2
1/2" = 1'-0"



SECTION 1
1" = 1'-0"

ISSUE:	DATE:	COMMENT:

PROJECT:	Sawmill Pavilion Nonnewaug High School 5 Minortown Road Woodbury, CT 06798	DATE:	7/19/22
TITLE:	Foundation and Framing Plans	DRAWN BY:	DC
ARCHER ENGINEERING COMPANY, P.C.	246 Federal Road Suite D23 Brookfield, CT 06804 (203) 775-5673	PROJECT:	22-159
These Drawings are prepared for the specific project / location indicated and are not to be reproduced, altered or used for any other purpose without the written permission of ARCHER ENGINEERING COMPANY, P.C.		DRAWING:	S-1