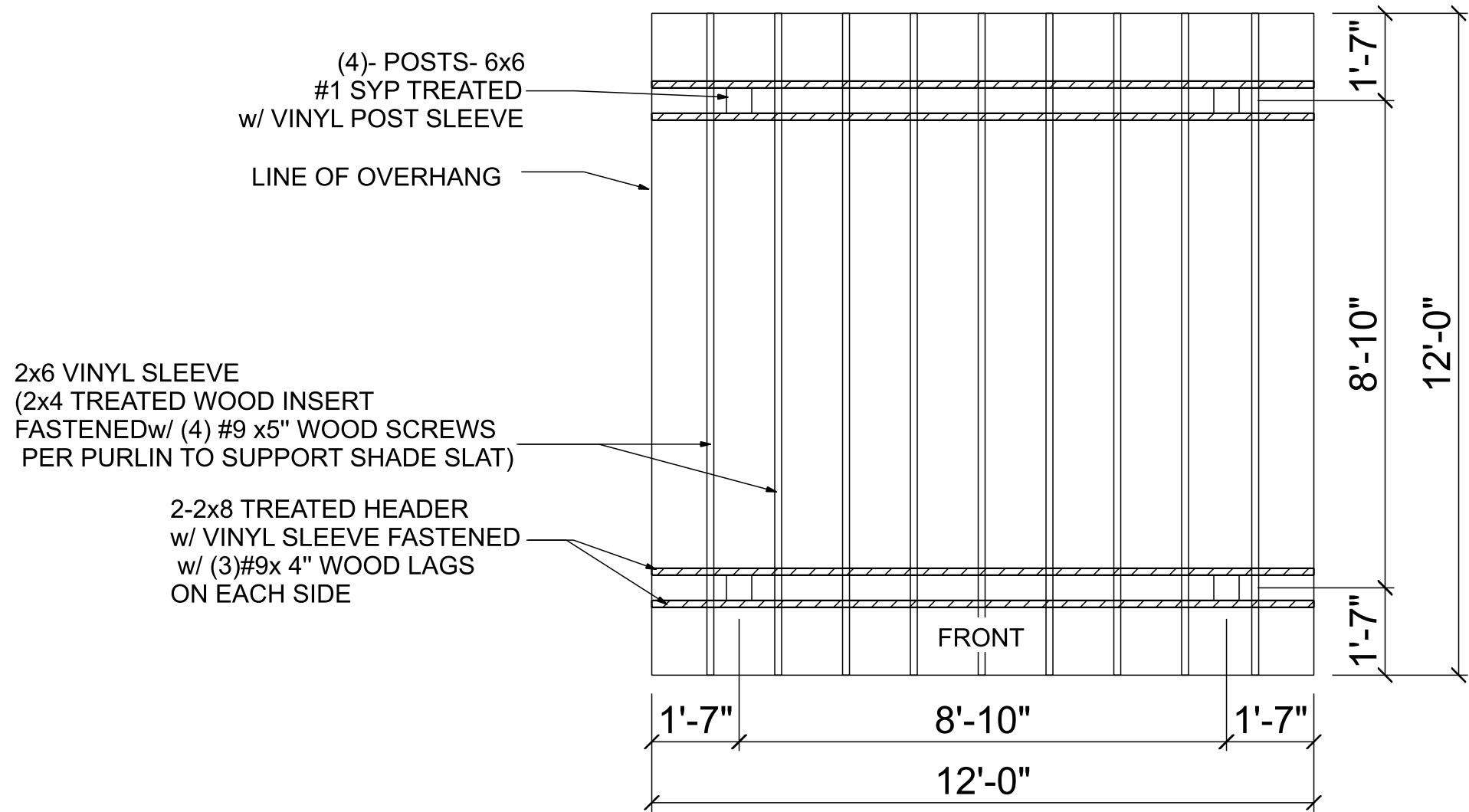
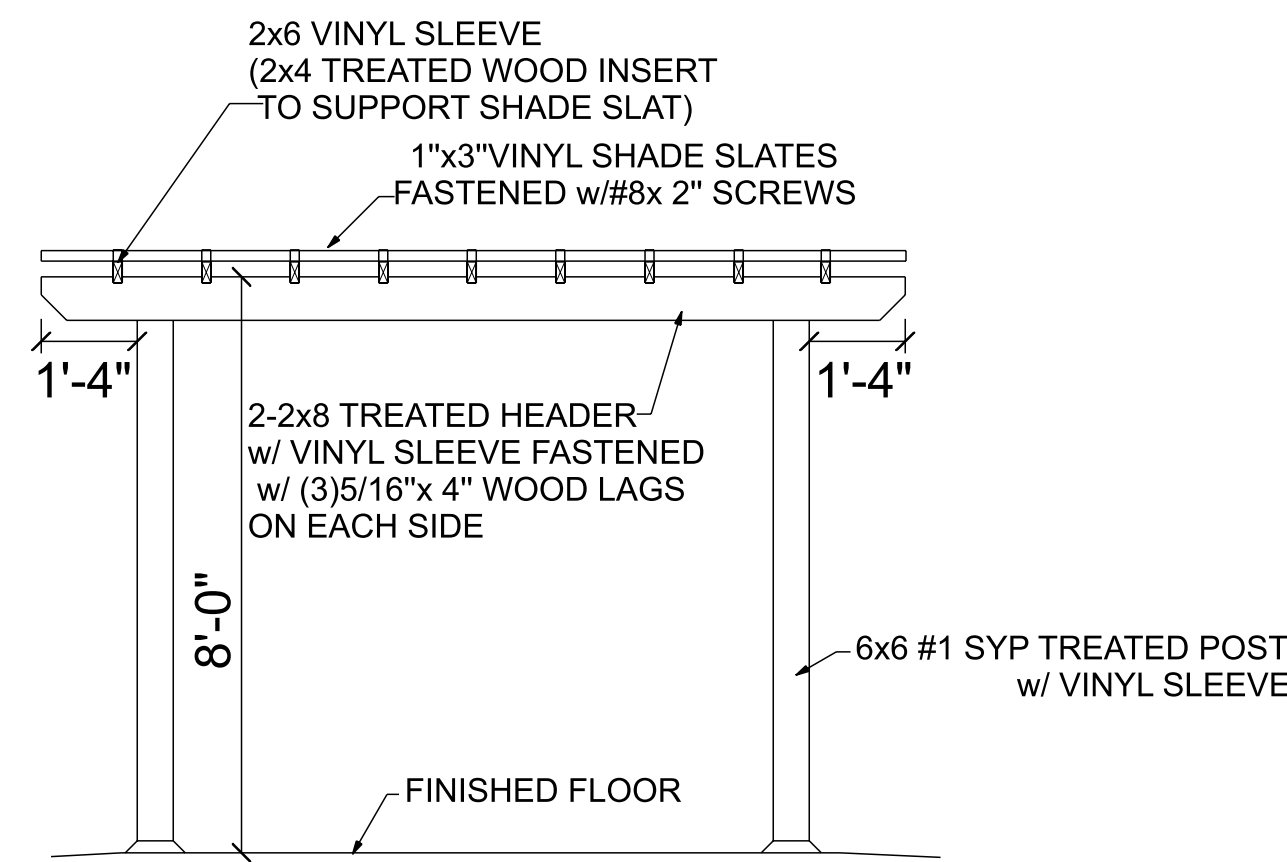


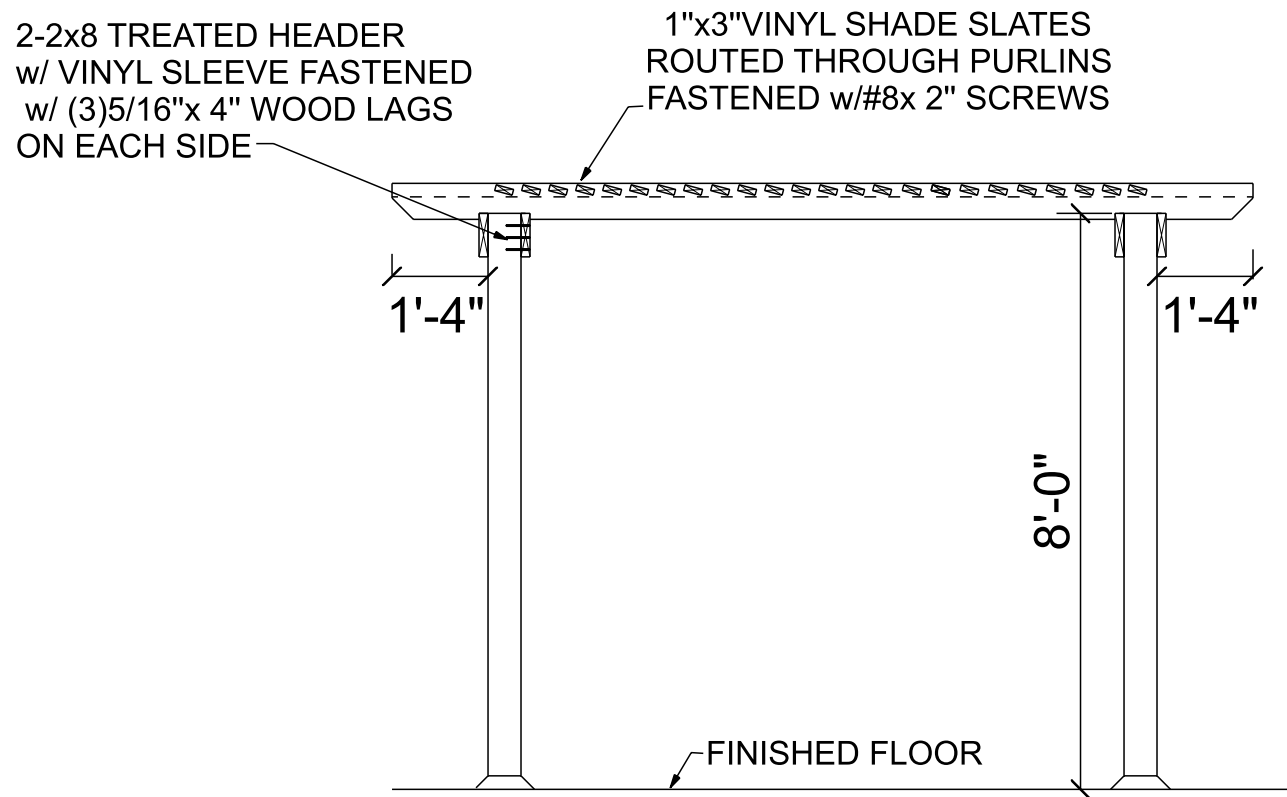
BRADFORD PERGOLA 12' X 12'



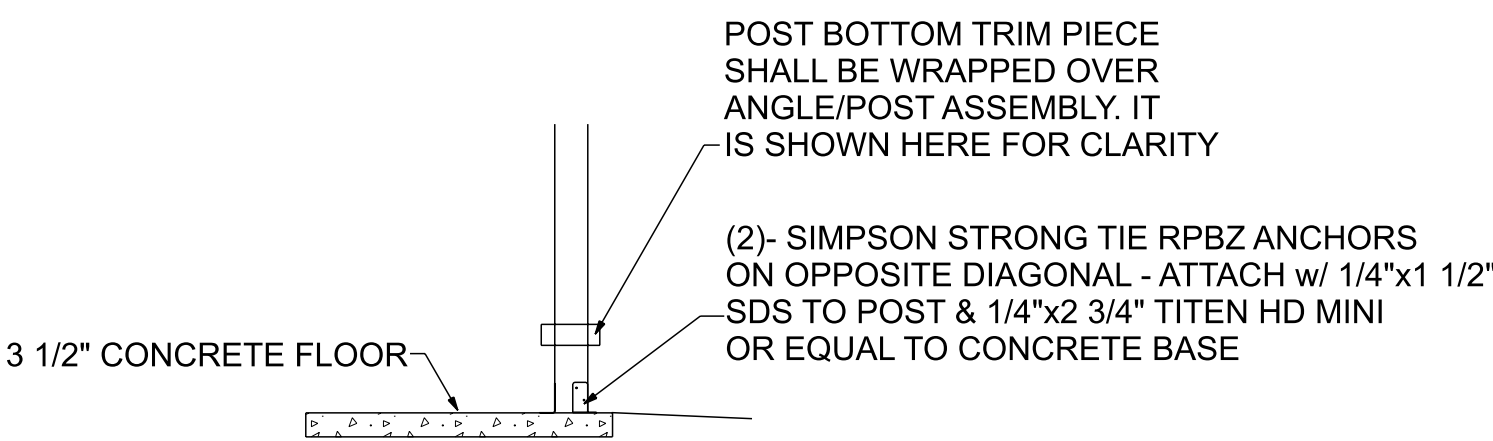
1-0 ROOF FRAMING PLAN



2-0 ELEVATION (FRONT VIEW)



3-0 CROSS SECTION



4-0 CONCRETE FLOOR POST ANCHOR

NOTE
A structural analysis shows that a 3 1/2" thick slab can carry the load for this pergola with the post at least 8" from the concrete slab edges. While ACI-318 requires a minimum footer depth of 8", it is my opinion that this thickness is not required for this light weight, simple structural with little risk to life or property. Since the Ohio Residential Code does not require decks that are not attached to building to have footings to below frost depth, This structure would not require footings below frost depth.

STRUCTURAL PLANS ONLY. OTHERS RESPONSIBLE FOR MEETING ALL OTHER STATE AND LOCAL REQUIREMENTS AND REQUIRED SUBMITTAL

Design Complies with Ohio Residential Code 2019 and The Ohio Building Code 2017
Constrction Type 5B
Structural Design Based On ASCE 7 - 10
Snow Load:
Ground Snow Load = 20 Psf
Snow Exposure Factor For Terrain Category B = 1.0
Thermal Factor = 1.2
Slope Factor = 1.0
Importance Factor For Category II = 1.0
Unbalanced Snow Load, Does Not Apply
Roof LL = 20 psf
Roof DL = 10 psf

Wind Load: 180 MPH
Basic Wind Speed = 115 MPH
Wind Pressure For Exposure B Per Table
Importance Factor For Category II = 1.0

NOTE
THE 180 MPH WIND LOAD APPLIES IF CONCRETE BELOW IS ADEQUATE TO FASTEN TO. TO VERIFY CONTACT A LICENSED ENGINEER.

- 6x6 #1 SYP POSTS
(TREATED FOR GROUND CONTACT)

ROOF STRUCTURE -
- VINYL 1x3 SHADE SLATS

FOOTER CONCRETE -
4,500 psi w/ 6% AIR ENTRAINMENT

Fasteners Are GRK-RSS Construction Screws AT Length Specified w/ Coating Approved For Use In Preservative Treated Wood w/ The Treatment Used Unless Noted Otherwise.

NOTE:
ALL MATERALS, UNLESS OTHERWISE NOTED, ARE #1 SOUTHERN YELLOW PINE



BERLIN GARDENS
take life outdoors™

BRADFORD PERGOLA
SCALE: 3/8" = 1'-0"

INFORMATIONAL
COPY ONLY
SEALED PLANS
AVAILABLE
UPON REQUEST

BERLIN GARDENS LLC
5029 TOWNSHIP HIGHWAY 359
MILLERSBURG, OH 44654
HOLMES COUNTY

REVISIONS		
MARK	DATE	DESCRIPTION
1.	3-12-20	AG-CO FOOTER
PROJECT NO: 22-XXX		
DRAWN BY: LT		
DATE: 8/27/2022		
SHEET TITLE:		

12P S-100