THOMAS M. McCash attorney at law

55 SOUTH HIGH STREET, SUITE 210 DUBLIN, OHIO 43017 614-408-8367 Fax: 614-408-8282 Web: www.mccashlaw.com

October 1, 2025

City of Dublin, Ohio Planning Division Board of Zoning Appeals 5200 Emerald Parkway Dublin, Ohio 43017

RE: Application for Area Variance

Address: 9376 Nicholson Way, Dublin, Ohio 43017

Dear Staff,

I represent David and Beryll Hopkins in regard to the pergola installed at the rear of their property. The Hopkins purchased this pergola from Share Tree Cool Living, LLC and believed that the supplier and installer would have applied for a building permit for its installation if required. They were informed by the installer that a permit was not required and relied on his "expert" opinion.

The Hopkins applied for their HOA approval, which was granted, even though it apparently violated their deed restrictions. They have subsequently indicated that they would follow the citys direction as to any approvals.

Shortly after its installation, the Hopkins received a Notice of Non-Compliance from Zoning Inspector Brian Martin indicating that there was no permit applied for the exterior improvements. The immediately submitted for a building permit on July 2, 2021 which was denied indicating that the pergola, which was being considered a structure, was not allowed to encroach into the open rear yard space of the property.

This pergola is placed above an existing concrete patio which is permitted to encroach into the rear yard by 5 feet per DCC 153.071(B)(1)(c). The pergola extends by its overhang 1 foot further for a total of 6 feet into the rear yard. DCC 153.071(B)(1)(b) permits eaves, cornices, window sills and belt courses to project into the required yard by up to two feet so with that exception, the pergola would encroach 5 feet into the required yard.

This pergola is visibly and physically open, having 50 percent of its vertical surface area open to light and air, on all sides and does not have a roof. It has open trellis structure above that is also more than 50% open relative to permanent elements and is provided with retractable awnings between the trellis elements.

The Hopkins would request that they be granted a variance to the provisions of DCC 153.071(B)(1) as it relates to the pergola as it was not their intention to violate the zoning code or building code and believed they were complying with all requirements. The HOA approved the project prior to its actual installation notwithstanding that it was encroaching into the rear yard. Had they denied the approval due to the encroachment, the pergola would not have been

installed as it presently exists. The Contractor further exacerbated the situation by not applying for building permits which would have at least given notice of the Zoning Code requirements.

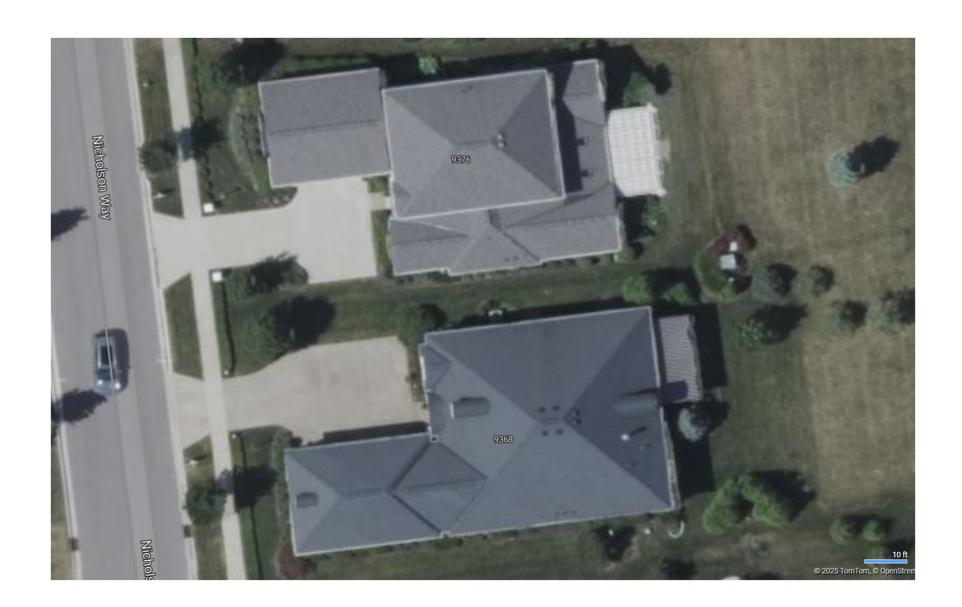
The Hopkins property has an eastern facing rear yard that abuts City of Dublin dedicated parkland. The location of the pergola allows a shade system during the morning and afternoon hours at their existing patio and does not visually detract form the views and vistas of the adjacent properties or the city parkland.

- 1. This site is unique in its configuration compared to most of the other lots in the subdivision that would have a larger available area for the construction of the pergola. Additionally given the additional open space created by the City of Dublin Parkland at the rear of the property, there is no adverse effects on another parcel that would typically be abutting the rear property line.
- 2. The pergola is 20 feet from the rear property line which does not impact adjacent property owners. The adjacent neighbors home sits 5 feet closer to the rear property line that the Hopkins.
- 3. The pergola installation, while purchased by the Hopkins, was performed by the supplier who failed to secure permits. Additionally, the HOA who would have had the opportunity to flag the concern at the time of the application, failed to do so.
- 4. Given the designated City Parkland behind the Hopkins parcel, the technical paper lines of setbacks does not impact visually the community or any neighbors to the rear of their property as the Parkland area provides a further visual buffer. The granting of the variance will not cause a substantial adverse effect to the property or any improvements in the vicinity or MATERIALLY impar the intent and purposes of the Dublin Zoning Code. The Hopkins propose as a condition that no vertical retractable shades will be installed on the pergola as a commitment that the openness of the element remains paramount.
- 5. The granting of the variance would not grant on the Hopkins any special privileges that other property owners are currently enjoying in the neighborhood and community. The adjacent property owner to the south has a patio and a retractable awning that is 16 feet from the rear property line and therefore sits closer to the rear property line that the Hopkins pergola. That neighbor was issued a permit for a 6' patio at the rear of their home that sits 26 feet from the rear property line which would be in compliance with DCC 153.071(B)(1)(c). That neighbors application indicates a request for a 10' deep patio, the applicant being Councilman John Reiner. While the approval was for a 6' deep patio, it's clear that a 10' deep patio was installed, with retractable awning, and the city has not enforced the same zoning code provisions against that property owner. If the patio was installed at 6' with the 26' building distance from the rear property line, it would generally align with the location of the Hopkins pergola. Clearly, their patio and awning is at least 4 feet further into the rear setback.
- 6. No governmental services are impacted by the granting of this variance.
- 7. The only method of eliminating the practical difficulty would be for the City to dedicate approximately 6 feet of the parkland at the rear of the parcel to the Hopkins, we don't believe that would be considered by the City. It should be noted that the adjacent property owner has attempted to acquire part of this parkland by moving the white stakes back approximately 5-6 feet from his actual rear property line, which I'm sure was to cause confusion in the city's enforcement regarding the patio.

Sincerely,

Thomas M. McCash





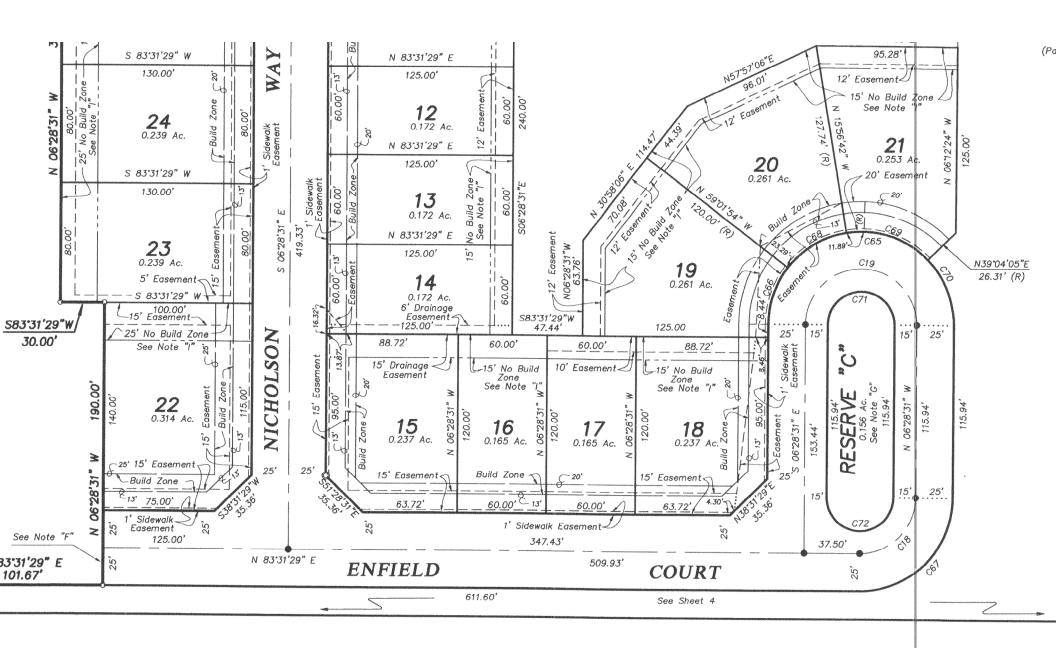


Submitted

Toldie

The pergola

extends ~ Ift
beyond existing Revised 12/6/16 per Dublin plan review PROVIDE RADON MITIGATION SYSTEM ADJACENT PROPERTY TO MORTH: Revised 12/20/16 PER DUBLIN REQUIREMENTS FINISH GRADE ELEV. = 1010.5' HOUSE MOYED 3FT FWD FIRST FLR. ELEV. = 1012.5' SATEPLAN DRAWN PER APPROVED SUBDIVISION PLAT BY EARLS, ENGINEERS & SURVEYORS DATED JANUARY, 2005 SIDEWALK & TREELAWN CROSS-SLOPE TO BE 3/16" PER FT 12" SIDEWALK FASEMENT NOTED FINAL DRIVEWAY DESIGN I.B.D. PER TANDSCAPE DESIGN/CONTRACIOR VARIOUS SPOT GRADE ELEV'S ADDED 125.00 FIRE HYDRANI ESTIMATED SILT FENCE LOCATIONS SHOWN = 6. UDDATED SEBRO STE UTILITIES SHOWN ARE PER APPROVED DEVELOPMENT ENGINEERING PLANS AND ASSUMED CORRECT BSMT WINDOW WELLS (W.W.) SHOWN 31.01 W.W. SLOPE GRADING AWAY FROM HOUSE MIN. 6' FALL IN FIRST TO' RUN NICHOLSON WAY HOUCIOR LINE SOIL STOCKPILES TO REMAIN ON THIS LOT 2+ CAR GARAGE PROVIDE EROSION CONTROL (SILT FENCE OR EQUIV) Around Construction Areas & Hearest Prop Lines BUILDER TO MAINTAIN EROSTON PROTECTION THROUGHOUT BUILDING PROCESS, & FFELD MODIFICATIONS MAY BE NECESSARY TO LOCATIONS SHOWN AS CONDITIONS REDURN 3/4" WATER LINE REV. PATIO ENCROACHES INTO POST LIGHT PER DEVELOPER/TUBORY SEQ MIN. 25' REAR YARD BY 4FT 10.0 8 MOOD BOLLAND(S) - SEE DETAIL THIS PAGE 6.75% DRIVE SLOPE APPROX, LOCATION OF SILT FENCE SLIE PLAN & ELEVANONS ARE SUBJECT TO REVIEW BY DEVELOPER & BUILDING DEPT'S AND MAY REQUIRE ALTERATIONS FOR PERMET APPROVALS HEDGE (GREEN VELVET BOXWOOD 8&B, 18-24"H @ 30" C/C) R.O.M STREET TREE (TYPE & LOCATION LB.D. FER SUBDIV) & SIDEYARD SEIBAD **GRADE CONTOUR LINES ARE BASED ON DEVELOPER'S** RH BREN ENGINEERING & ORIGINAL SITE ELEVATIONS AS PROVIDED Pergola 19'-9"w x 125.00 * STABILLIZE CONSTRUCTION 11'-10"d (from NOIE: LANDSCAPE CONTRACTOR TO PROVIDE APPROVED Street frees per city of cublin requirements, to be Located per Surdivision & City Specifications, and to #83°-31'-29'E BIRMACE SITE PLAN AN BORD house) see ANY FUTURE PATIO AREAS DESIGN TRO BY OTHERS WILL REQUIRE HOA & BURELY APPROVALS LOT 13 HAVE TREE-PROTECTION FENCING INSTALLED AS NECESSARY SCALE: 1" = 20'-0" pergola dwgs 0.172 ACRES ANY GRADE & LANDSCAPE CHANGES BY OWNER TO FINAL LANDSCAPE/BANDSCAPE DESIGN R LAYOUT FRO. BY OFFIRS IF REQUIRED, MAILBOX & UGHT POST TO BE BE APPROVED BY HOA & DUBLIH PRIOR TO INSTALL WYE STA. 15+00 LOCATED PER SUBDIVISION OR JURISDICTION E.O.S. ELEV = 997.9' 16-25/52 ENGINEERING COMPLIANCE 9376 NICHOLSON WAY FLOOD HAZARD ZONE "X" LOT 13 - SEC 1 TOTAL IMPERVIOUS SURFACE AREA = 3,854 SQFI * ADJACENT PROPERTY TO SOUTH: City of Dublin ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY F.LR.M. MAP TARTAN RIDGE SUBDIV FINISH GRADE ELEV. = 1009.3" HOTAL LOT AREA = 7,500 SQFT APPROVED AS NOTED COMMUNITY PANEL #39049CODTEK FROM 6/17/2008 THE BUILDING LOCATION FIRST FIR. ELEY. = 1011.3" % COVERAGE (ALLOWABLE IS <70%) PARCEL #4 = 51.4% Ces 12/28/11 WILL BE COMPLETELY OUTSIDE OF THE FLOODPLAIN CITY OF DUBLIN DREVEWAY SURFACE AREA IN FRONT YARD = 240 SQFT BENCHMARKS: UNION COUNTY, OH B.M. #3 -RAJLROAD SPIKE SEI IN JOUTH SIDE OF 18" DIA TREE, APPROX 1750" TOTAL FRONT YARD AREA (TO BUILDING LINE) = 1,200 SOFT EAST SIDE OF HYLAND-CROY ROAD AND APPROX 15' NORTH SIDE OF SECTION LINE % COVERAGE (ALLOWABLE IS <35%) = 20% ELEY = 1002.32" 26.00 = 16 LF TOTAL LINEAR FT CURB CUT(S) BASIS OF BEARINGS: TRANSFERRED FROM A FIELD TRAVERSE ORIGINATING FROM & TYING TO 35.50 12.50 **10TAL LINEAR FT CURB** = 60.0 LF FRANKLIN CO. GEODEHC SURVEY CONTROL MONUMENTS, ENCLUDING MAIEAL & FIGS 6648 % CUT (ALLOWABLE IS <40%) = 27% HAVING CALCULATED BEARING OF N 15 DEGR, O7 MINS, 53 SEC WEST (BASED ON D.S.P.C.S. SOUTH ZONE NADBS) 1986 * INCLUDES HOUSE, GARAGE, PORCHES, DRIVE, & ALL SIDEWALKS (ANY AREA OF LOT COVERED BY LYAPERVIOUS MATERIAL) PLAT-BOOK S. PAGE 315, A. B. C. AAP # B7-01-04-002,000 12.00 "HAPERYLOUS AREA" BREAKDOWN: TOTAL HOUSE FOOTPRINT (INCLUDING ALL PORCHES, GARAGE) = 2.646 10ff ZONING'S SETBACK INFO (COTTAGE LOIS): 7.67 12.00 MEN SIDEYARDS = 6FT EACH SIDE FUTURE/OPT PATTO AREA = 135 rgft 1674 BLDG FOOTPRINT - NOT TO SCALE MINREAR YARD = 15/25 FT TOTAL WALKS & SIDEWALK AREAS = 208 19H TOTAL DRIVEWAY AREA (GARAGE TO CURB) = 865 sqff APPROX SILT FENCE LOCATION (FIELD YERHY) TOTAL IMPERVIOUS AREA = 3,854 sqft





JUL 3 1 2017 CITY OF DUBLIN



Planning | 2017

Application # 17-62750

CERTIFICATE OF ZONING PLAN APPROVAL

A Certificate of Zoning Plan Approval (CZPA) is required for accessory structures, fences, patios, outdoor sales, and for all commercial projects.

tral , Itempora , s gris, findel homes

I. APPLICATION REQUIREMENTS

☑ APPLICATION FEE (\$70 RESIDENTIAL, \$145 COMMERCIAL, \$90 TEMPORARY SIGN)

☑ SCALED SITE PLAN

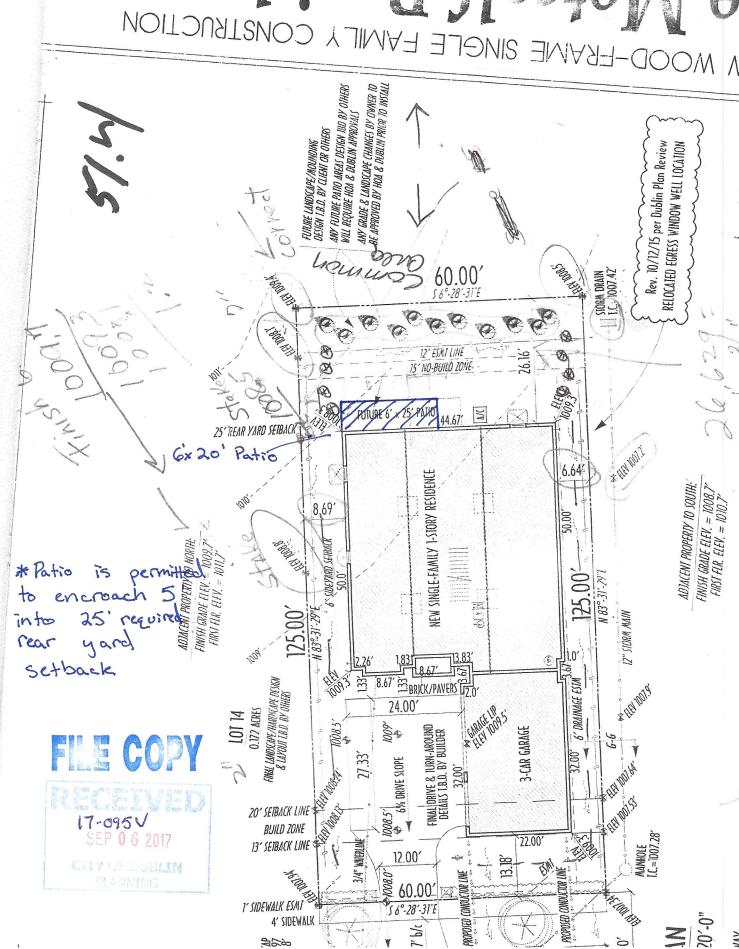
One (1) copy, indicating all current structures, property lines, setbacks, and easements in addition to all proposed structures and site improvements. All proposed work should be dimensioned and labeled. Additional documentation may be required. Partial or incomplete applications and drawings cannot be processed and will be returned to the applicant. Typically, site plans come from the surveyor and are enclosed with the closing papers. (Not required for temporary signs).

II. PROPOSAL: Please describe the proposal (patio, fence, tem	p. sign, etc.)
	ab 10'x 18' in small area at any orborritae's to provide rest of area attached.
Address of Subject Property OR Parcel ID: 9368 NW Property Owner: Ross Finda Metall Subdivision/Business Name:	Phone Number: 614-504-630
Applicant/Authorized Representative: Address of Applicant/Authorized Representative:	tall Reiner (Ookland Park Jurse
Applicant's Phone Number: 614-774-9215 (Cell IV. APPLICANT'S STATEMENT OF ACKNOWLEDGEMENT:	Applicant's Email: Metcalteross @ yaloo, co
I, Desemotcall, the owner and applie	cant, hereby authorizesing and approval of this application including modifying the project, and I
Property Owner Signature: Authorized Representative Signature:	Date: 07/27/2017 Date:
Authorized Representative Signature:	Date.
FOR CITY USE ONLY	
Resubmission? Yes No	Date Issued/Issued By: M. KETTLER 11/8/17
☐ Approved ☐ Approved as Noted ☐ Disapproved as Noted	Notes: 6' x 20' Patio
This Cartificate of Zoning Plan Approval is issued for and in reference to the proper	the and use described above, and as approved by the City Administrator or decimes or

This Certificate of Zoning Plan Approval is issued for, and in reference to the property and use described above, and as approved by the City Administrator or designee, or the City Council, Board of Zoning Appeals, Planning & Zoning Commission, or the Architectural Review Board as appropriate.

For questions or more information, please contact Planning at 614.410.4600 | www.dublinohioUSA.gov





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17-095V

SEP 0 6 2017

CITY OF DUBLIN

5800 Shier Rings Road * Dublin, OH 43016

RECEIPT DETAIL:

Receipt Date: 7/31/2017 Receipt No.: 44706

Cashier: DUBLINAD\kettmt

Job ID: 17-62750-CERT - Paver Patio - 180 sq. ft.

License Information:

Payment Type: CERTIFICATE OF ZONING COMPLIANCE - RESIDENTIAL

Transaction Amount: \$70.00

Comments:

RECEIPT TOTALS:

Cash:

\$0.00

Check:

\$70.00

Credit Card:

\$0.00

Other:

Tax Amount: \$0.00

TOTAL:

\$70.00

TENDER SUMMARY: Check # 2594 \$70.00 Metcalf, Ross & Linda

THANK YOU FOR YOUR PAYMENT



Onyx Realty

Property Managemer.

Oct. 21, 2020

Davis & Beryll Hopkins 9376 Nicholson Way Dublin, OH 43017

SUBJECT: ARCHITECTURAL REVIEW APPROVAL

Dear Homeowner:

One of the benefits of living in an association is that there are a recorded set of deed restrictions. Deed restrictions are rules for homeowners to live by that help maintain the integrity, pride and desirability of the neighborhood.

The association has architectural standards noted in the deed restrictions that give the association and its board of directors the ability to approve or deny modifications being made to the exterior of the homes.

You recently submitted a Request for Architectural Review for modifications being made to your property. The board is hereby approving your request as summarized below:

Description:Install pergola on existing patio.

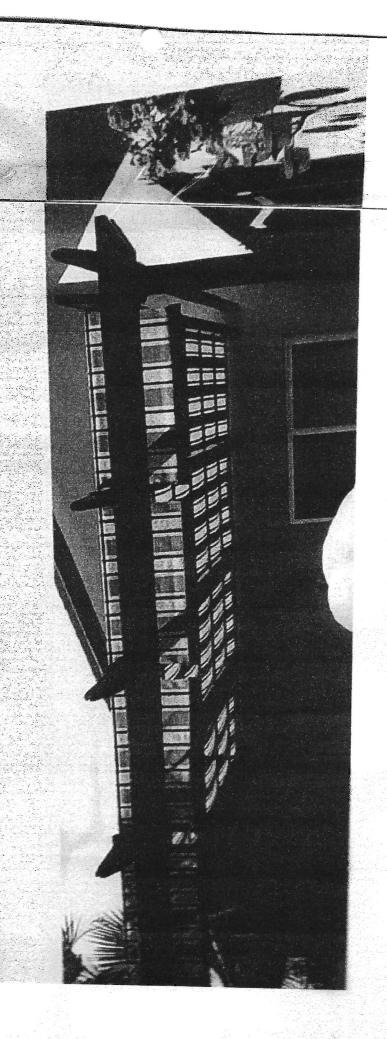
The application was approved based on the details submitted. Please ensure that all modifications are consistent with the application.

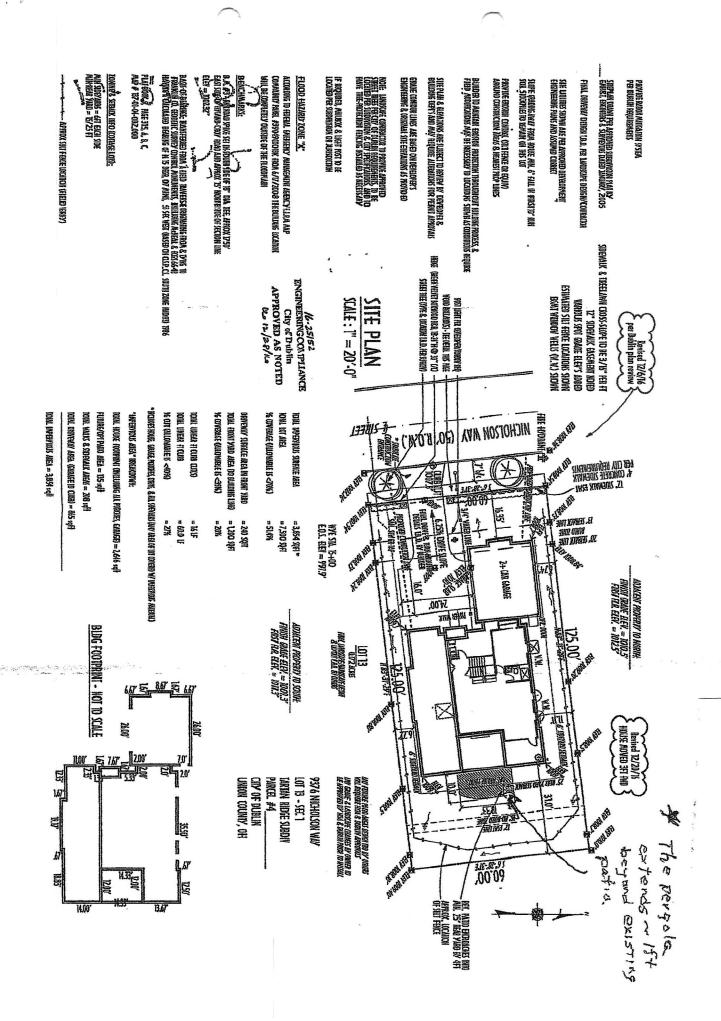
The Association neither assumes responsibility or liability for your compliance, nor waives its rights to hereafter enforce compliance with the Association's governing documents. Please review the entire set of Deed Restrictions and remain in full compliance.

Please make sure to remember that it is the responsibility of each homeowner to call before they dig (811 or 1-800-362-2764) and to check with local zoning to make sure improvements are properly permitted. If you have any questions or concerns about the above matter, please do not hesitate to contact me.

Sincerely.

AJ Davis Onyx Realty 614-915-7119 ajdrealestate@gmail.com NEW! The ShadeTree





ShadeTree® Canopy Systems Assembly Instructions

ShadeTree* Aluminum Pergola an aluminum structure **attached to a house**.

The Aluminum Pergola



Dear Customer:

Thank you for purchasing our **ShadeTree Canopy System**. We trust these assembly instructions will be satisfactory for your installation. If you have any questions, please feel free to call 1-800-894-3801.

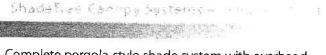
And here's a special offer we'd like to make to you: Send us a photo of your new ShadeTree* installation and we will send you \$50 if we use your photo in our advertising materials. Before and after pictures will receive an additional \$50. A deck or patio that is nicely furnished helps us communicate to prospective customers how nice a ShadeTree* patio can be.

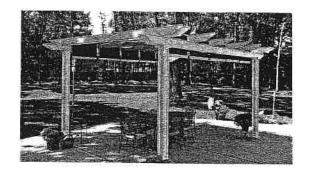
We hope you enjoy your new ShadeTree* patio canopies.

Sincerely,

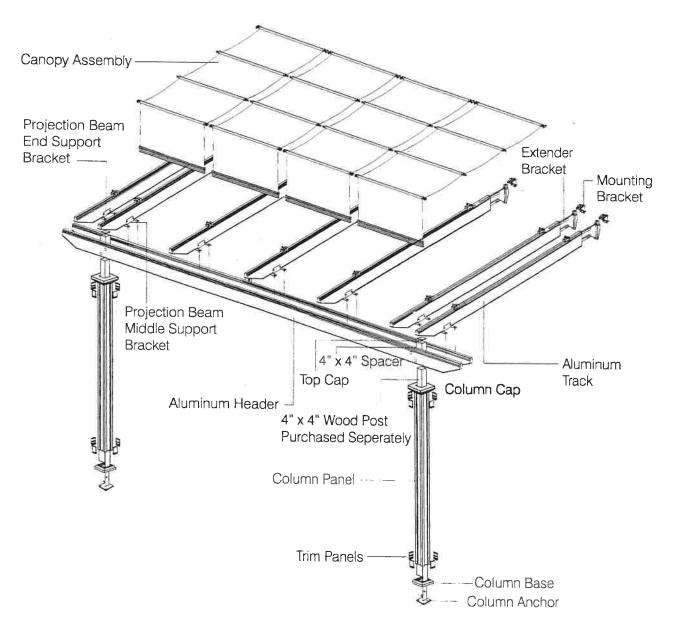
Colin LeVeque, President ShadeTree Systems, LLC.



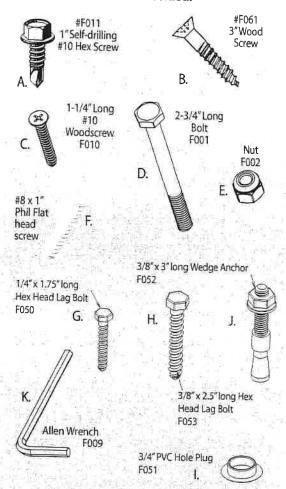




Complete pergola-style shade system with overhead canopies and aluminum beams and vertical support system, to be attached to house.



Fasteners & Hardware Provided:



If driving screws with a drill or power screwdriver, set the torque to a low setting to avoid stripping screw heads.

Other Materials Required:

You will also need 4" x 4" wooden posts for added strength inside aluminum columns. Pre-selection of pressure-treated wood is very important. Any warped or oversized lumber will not fit inside the aluminum columns. If sinking posts into the ground, treated lumber is required.

If mounting on a deck, patio, the surface must be connected to solid anchor points. If not, the posts must be sunk into the ground. If you wish to cement the posts 3' into the ground, 12' posts are needed.

NOTE: You'll find a second pair of hands (to hold parts as the unit goes up) to be very helpful in erecting your system.

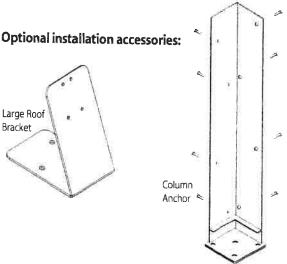
Tools required:

- 1. Phillips screwdriver
- 2. Hand drill
- 3. Power Drill
- 4. Phillips-Head Bit
- 5. Carpenter's Square
- 6. Pencil
- 7. Bubble-Type Level
- 8. Tape Measure
- 10.8' Ladder
- 11. Circular Saw
- 12. hand saw
- 13. Post-Hole Digger (optional)
- 14. Ratchet
- 15. Deep Socket 3 sizes
 - 7/16"
 - 3/8"
- 16. "Quick Grip" Clamps
- 17. Drill Bits 9/64" and 7/16"
- 19.3/8" masonry bit for concrete mounting
- 20. Rubber Mallet

Note: If driving screws with a drill or power screwdriver, set the torque to a low setting to avoid stripping screw heads.

CAD -YOUR PROVIDED CUSTOM BLUEPRINT:

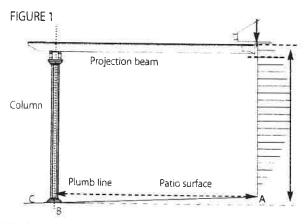
Each ShadeTree Pergola will ship with a custom-designed CAD drawing showing all of the dimensions neccessary for installation. Please refer to this CAD for all steps in these instructions. If a CAD did not come with your ShadeTree system, please call customer service before proceeding with installation.



Step 1 Determine the height of your ShadeTree® Pergola System

To determine the height at which to place the End Mounting Brackets (which hold the Projection Beams) on the house, it is important to know the maximum height of the mounting bracket relative to the maximum height of the columns.

See following illustration and dimensions to determine maximum height of End Mounting Bracket on the house.



Maximum height to top edge of End Mounting Bracket is 11'1-1/8" from surface on which columns will be anchored. (See vertical arrow at far right side of diagram above.)

If there is <u>no</u> "fall" in your deck or patio surface (in most cases, there is some fall so rain will drain away from the house), you can place the *End Mounting Bracket* as high as 11' 1-1/8" from the patio surface at the house (A). However, if there is fall from your house (A) to the place where the columns are to be placed (C), it is necessary to adjust the height of the *End Mounting Brackets* to accommodate for this difference in surface levels.

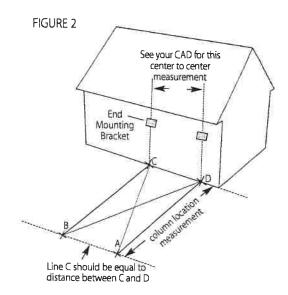
To determine the "fall" from your house to the surface on which the columns will be anchored (C), extend a string level from base of house (A) to the to center line of Column (B) and measure the distance (fall) from level line at (B) to mounting surface (C). See the CAD drawing that came with the system to determine distance from house and center of Column (B).

Subtract the "fall" dimension from 11' 1-1/8" to determine the maximum height (based on maximum height of the columns) at which the top of the mounting bracket can be installed. Mark this position temporarily on the house.

Step 2 Determine location of Columns

Measure out from the house to the desired location of your first *Column* (A). Measure out from the house a second time to the location of your second *Column* (B). Be sure that points A & B are on a line (C) that is parallel with the wall to which the *End Mounting Brackets* are to be attached.

To ensure that your system will be square, measure the distance from point B to point D. Then measure the distance from point A to point C. Move points A and B right or left to get B to D and A to C equal.



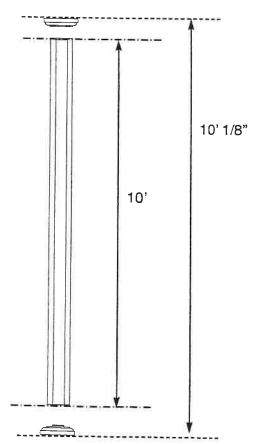
Step 3 - Preparing the surface

So and English Country by Bygterius -

If you do not have a level surface (most patios have a slight slope to shed water), you may need to cut the columns that are to be placed on the high side of the mounting surface. You should first establish the difference in elevation (you can use a level and tape measure if necessary). Next measure up, from the bottom of the column, the difference in elevation, and place a mark on the column. (You should only cut the column from the bottom). It is important that your ShadeTree structure be built so the beams and headers are level. A deck or patio is an ideal surface. Another option is to set 4x4s into 3' deep hole and encase in concrete.

Mounting higher than the maximum mounting point.

If it is desirable to mount higher on the house than the 11' 1-1/8" shown in Fig. 5A, you can do this by building post support "pillars" of brick, stone or other material. This can be an attractive way to achieve a higher positioning of the mounting brackets and thus a higher overall pergola system. FIGURE 3



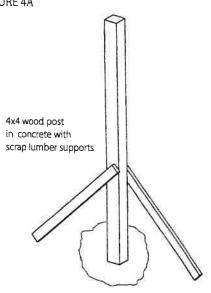
Step 4 - Internal Post assembly (set or surface-mounting)

Step 4 - Option A: Wood posts set in concrete:

Dig holes and secure posts

You will need 12' or longer 4x4 posts when setting posts into concrete. We recommend that you use pressure treated lumber for this application. Once you have determined the post locations, you can begin digging the holes. You should dig the holes to a depth of 3 feet. Mix concrete according to manufacturer's instructions and pour into holes. Check that wood posts are plumb and extend at least 11' 1-1/8" above ground level. Stabilize the posts temporarily by attaching scrap lumber into the posts as illustrated in Figure 4A.

FIGURE 4A

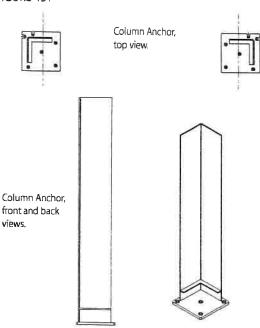


Step 4 Option B – Surface-Mounting using Column Anchors

4B1 Pre-drill mounting holes

Before drilling holes into the surface, be sure that the *Column Anchor* alignment notches are aligned with the centerlines of the other anchors. Fig. 4B1.

FIGURE 4B1



If attaching to a wood surface Use the *Column Anchor* as a template and pre-drill for the 3/8" x 2 1/2" lag bolts that will secure the *Column Anchor* to your surface (using a 7/16" drill bit). Repeat for all column locations.





F052 3/8" x 3" long Wedge Anchor

If attaching the posts to concrete. Use the Column Anchor as a template and pre-drill for the wedge anchors with a 3/8" masonry bit, and use the provided 3/8" x 3 long wedge anchors. After pre-drilling the holes, use a hammer to drive in the wedge anchors. Repeat for all column locations.

4B2 Attach bracket assembly to surface

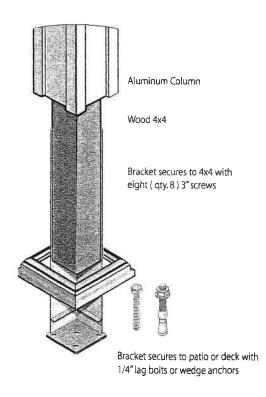
ShadeTrea Camppy Systems

Attach Column Anchor to the mounting surface using center line marks. Make sure Column Anchors are level, and then tighten.

4B3 Attach wood post to Column Anchor

With Anchor in vertical position on the ground, attach each wood 4x4 post onto the *Column Anchor*. Pre-drill for the (C) F061 3" wood screw using a 9/64" drill bit. Install the 8 screws through the steel support into the 4x4 wood posts.

FIGURE 4B3 Base Mounting Detail

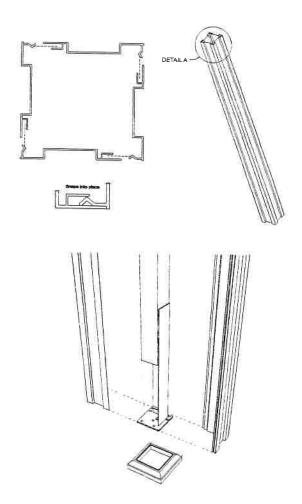


Step 5 Assemble the Columns

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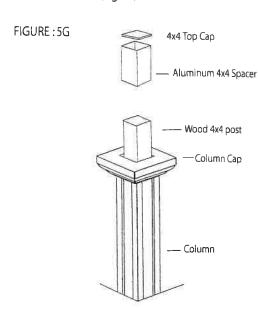
Each Pergola Aluminum Column consists of four panels that simply snap together. Lay down a panel on a clean smooth surface with the channel and ridge side facing up. Position a second panel over the ridge of the first panel. Using a rubber mallet, gently hammer the edge of the second panel so the ridge of the first locks into the channel of the second. Slide the bottom of the two assembled panels into position in the column base.

Repeat the process above with the third and fourth panel. Then stand upright the second set of assembled panels and put around the post but do not insert into base yet. Slide the bottom of the second set of assembled panels into position in the column base. Starting from the bottom of the column, snap together the first and second sets of assembled panels. OR, build the entire column on the ground and then slide over the 4x4.



Step 6 Assemble Column Cap

After erecting the posts and Columns, place the Column Cap on top of the Column (Fig.5G).



Step 7 Cut excess wood post

Mark on the wood 4x4 post 5.875" from the top surface of the *Column Cap*. This is the point at which you need to cut off the excess portion of the wood post. You can use a hand saw or saw zaw to cut the top of the wood post. After the top of the wood post is cut off, slide the *4x4 Spacer* over the top of the wood post, and rest it on top of the *Column Cap*.

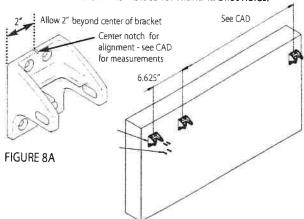
Step 8 Seal the Column Cap

Once you have fully assembled the *Column Cap*, put a bead-line of silicon sealant (not provided) around the joint between the *4x4 Spacer* and the *Column Cap*. Repeat steps 4 through 8 for remaining columns.

Step 9 Attach End Mounting Brackets

Using the CAD drawing for your project, mark the center location for each *End Mounting Bracket* on the house, as shown in figure 8A. One *End Mounting Bracket* is needed for every projection beam.

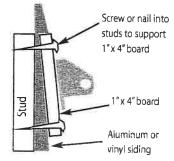
Mount the *End Mounting Brackets* on each center mark, using the center notch as a guide (FIG. 8A). The brackets should be mounted so that the the slanting edge of the bracket is to the top (as in illustration). Be sure to mount the brackets level with each other. Use a 9/64" drill bit to drill pilot holes. The Bracket can be used as its own template for marking pilot holes.



WHEN MOUNTING TO HOUSE, BRACKETS MUST BE ATTACHED TO WELL-SECURED WOOD, BRICK OR STONE.

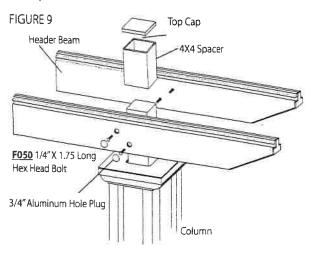
- If mounting to a house with wood siding, or to wood trim, use the 1-1/4" #10 wood screws with the painted heads (screw c).
- If mounting to a masonry wall (brick or stone) concrete fastening screws must be used. Consult your hardware store for the best fastener for your situation.
- If attaching to stucco, aluminum, or vinyl siding, the screws must make contact with wood. On two story houses, this can usually be done in the area of the second floor joists. When no wood can be found to carry the canopy load, you must attach a 1"x 4" board to the home (see illustration below) ... horizontally at the height desired for the canopy. The board can then be secured by screws into each stud. On aluminum or vinyl siding, tighten the bottom screws only enough to hold board snugly. Over-tightening can compress the siding. The board can be painted or stained to match the siding.





Step 10 Position Headers

Place the pre-cut *Headers* according to Figure 9. Place the *Headers* on top of the *Column Caps*. Clamp the *Headers* to the wood post.



Step 11 Assemble Headers

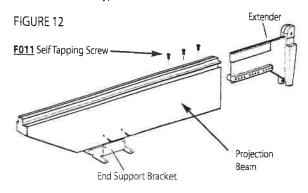
Insert and tighten the *Lag Bolts (F050)* at each end of the *Header* using your ratchet and 7/16 deep socket. Check to make sure the *Lags* are completely tightened, but be careful not to over tighten. Repeat steps 9 and 10 for remaining headers.

Step 12 Cover Holes

Snap 3/4" Aluminum Hole Plugs into Header Beams to cover holes.

Step 13 Assemble Projection Beams

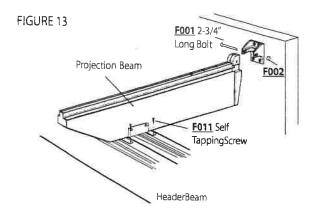
Secure the Extender and End and Mid-Brackets to the Projection Beams in the pre-drilled holes. The Projection Beam End Brackets (one-sided brackets) are to support the left-most and right-most Projection Beams (Outside Projection Beams) and the feet of the Bracket should face inward toward the next Projection Beam. Secure with screw type F011.



Step 14 Attach Projection Beams

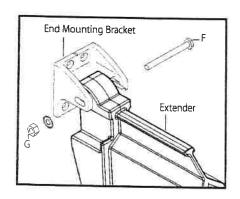
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Attach *Projection Beams*, with brackets already ssembled, to the *Headers* on the pre-drilled holes. The first *Projection Beam* to attach is either the left or right outermost beam. The provided CAD drawing will give you the center-to-center measurements for positioning the remaining *Projection Beams*.



Step 15 Attach Extenders

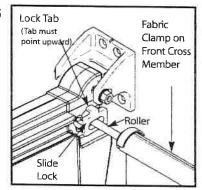
Attach an *Extender* to each of the *End Mounting Brackets* on the house using the 2-3/4" bolts (F), and nuts (G) provided. Be sure the top of the *Extender* is up (as shown.) Loosely hand-tighten the nuts.



Step 16 Installing the Canopies

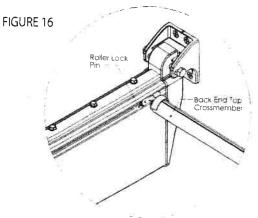
You can now insert the Canopies, starting at the end of the beams with the extenders. Insert the Rollers at the ends of each Cross Member; insert all Cross Members, ensuring that the back Cross Member is inserted last. The front Cross Member is the one that has a Slide Lock on each end. When inserting, ensure that the Lock Tab is pointing up as shown here (Fig 9A). Be sure that the Canopy is oriented so that the Fabric Clamp (Top Cross Member) is facing up as shown, while the aluminum Cross Member is oriented down. Continue inserting the remaining Rollers until the entire Canopy is up. Install remaining Canopy using the same procedure.

FIGURE 15



Step 17 Locking the end of the Canopy

A Roller Lock Pin is provided to hold the Cross Member nearest the house in a fixed position. It will arrive already inserted in the Canopies in the last Cross Member. Once in place, it can be secured with set screws. The Locking Pin will hold the last Cross Member firmly in place. Repeat on each track. (On masonry or stucco houses, you must leave a few inches between the Canopy and the house to prevent scuffing of the canvas during windy weather).

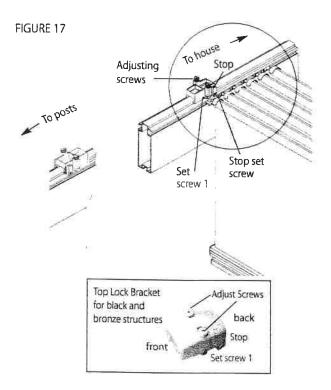


Step 18 Installing the Top Lock Brackets

Pull each Canopy section out to the position where you want it to end. Place a Top Lock Bracket on the top of the track in the orientation shown in Fig. 17. Tighten set screw 1 on both sides of the Top Lock Brackets with the Allen wrench provided (I) ... making sure that the Top Lock Brackets are completely pushed down on the track before tightening.

Test the snap-in *Top Lock Bracket* and tighten or loosen the *Adjusting Screws* as required for the desired tension. The recommended tension setting procedure is to turn the *Adjust Screw* clockwise until it stops, and then back the *Adjust Screw* out six full revolutions. Repeat this step on each *Lock Mechanism*.

Pull each *Canopy* back to the fully retracted position. Place another *Top Lock Bracket* on each track at this point, in the orientation shown in Fig. 10A. Tighten the set screws.



NOTE: The *Locking System* is designed to release the *Canopies* in high winds to protect the canopies. The adjusting screws can be used to adjust the tension. Do not over-tighten, as this could increase the chance for canopy damage in high winds.

Step 19 Adjusting the **Handle height** (optional)

Each Canopy has the Handle overhang approximately 18" from the tracks. This Drop Handle is for opening and closing the Canopies. However, if you must have less than an 18" overhang, follow the instructions below for shortening the Handle height.

- 1. Remove all screws in the *Handle* and open the *Handle* the entire width.
- 2. Cut the fabric to the desired length.
- 3. Carefully close the *Handle* and re-insert the screws provided do not overtighten.
- 4. Reinstall the Top Caps in the end of the Handle.

Step 20 Shortening Canopy Length (optional)

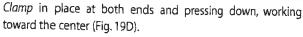
Lay the canopy on a flat clean surface. The extra fabric length should be removed from the back end of the canopy. This is the end opposite the handle. Remove the Roller Sleeve assemblies at both ends of the back canopy Cross Member. To do this, first fully extend the Roller, then push down on the locking tab and pull Roller Sleeve outward (Fig. 19A).

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Remove the *Fabric Clamp*. To do this, insert a flat head screw driver between the canopy fabric and the *Fabric Clamp*. Pry upward to release the *Fabric Clamp* (Fig. 19B).

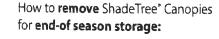
From the back end of the canopy, measure the same distance that was taken off the track length. Make a mark at this distance on both outside edges of the fabric (Fig. 19C).

Place the Bottom Cross Member (aluminum) underneath the canopy, centering it on the two marks. Position the Bottom Cross Member so the punched square holes at the ends are facing downward. Holding the Bottom Cross Member in this position, reassemble the Fabric Clamp by snapping the Fabric

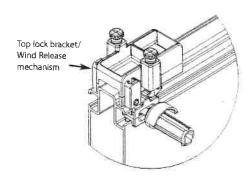


Insert the Roller Sleeve assemblies back into the Bottom Cross Member, ensuring that the locking tab engages the corresponding punched square hole in the Bottom Cross Member (Fig. 19E).

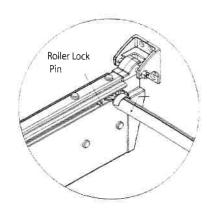
Measure the canopies to ensure the desired length is correct before trimming off excess canopy material. Remove the canopies and place on a flat, clean surface. To remove the excess canopy material, use the edge of the *Fabric Clamp* as a guide when cutting with a sharp utility knife (Fig. 19F).



1. Remove the **Top Lock Brackets** at the "retracted" end of each track (see step 17.)



2. Remove the **Roller Lock Pin** which holds the last Cross Member in a fixed position (see step 18.)



- 3. Then simply roll the **Cross Members** out of the "retracted" end of the track. The tracks can remain up year-round.
- 4. If a canopy is dirty and requires washing before storage, simply spread the canopy on a driveway or other flat surface. Use a medium-firm brush or broom to remove dirt particles while the fabric is still dry. If necessary, use a bucket of warm water and a mild soap, such as Ivory Snow to clean the fabric.

Be sure to rinse well by hosing with clear water. Allow to air-dry completely in the sun before rolling canopies up for storage. (**Do not store wet canopies!**)

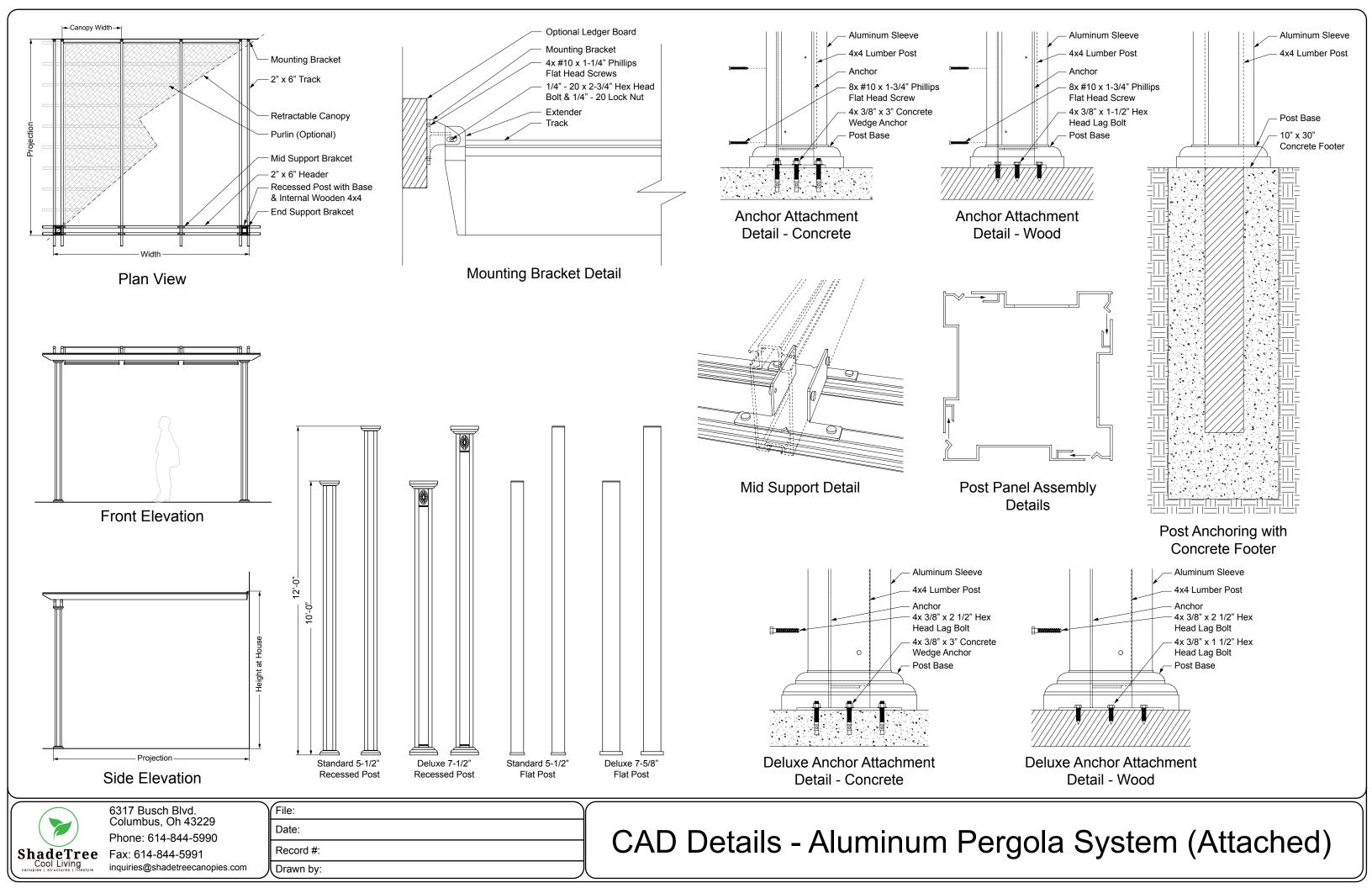
Care and cleaning of your ShadeTree' Canopies

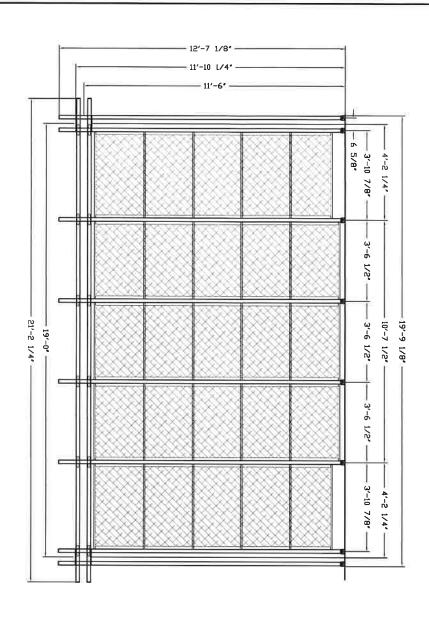
- 1. ShadeTree' tracks should be cleaned regularly to keep debris and dirt from accumulating and interfering with the Rollers. Simply use a mild detergent with a small soft brush, such as a toothbrush, and gently wipe or brush along the inside of the tracks. To maintain a smoothly operating system, use the ShadeTree' EasyRider Track Lubricant in the Roller Tracks. Note: Do NOT use oil or any wet lubricant, such as WD-40, on the tracks as it would attract more dirt.
- 2. Fabric should be cleaned regularly before substances such as dirt, roof particles, etc., are allowed to accumulate on and become embedded in the fabric. The fabric can be cleaned without being removed from the *Cross Members*. Simply brush off any loose dirt, roof particles, etc.; hose down and clean with a mild natural soap in lukewarm water (no more than 100° F.) Rinse thoroughly to remove soap. DO NOT USE DETERGENTS! For ultimate performance, use ShadeTree' Canopy Cleaner Mold & Mildew Stain Remover.
- 3. For stubborn stains soak the fabric for approximately 20 minutes in a solution of no more than 1/4 cup (2 oz.) natural soap per gallon of water at approximately 100° F. Rinse thoroughly in cold water to remove all of the soap. Note: Excessive soaking in bleach can deteriorate sewing threads. This method of cleaning may remove part of the water repellency and the fabric should receive an application of an air-curing water-repellent treatment, such as ShadeTree* Canopy Cleaner Mold & Mildew Stain Remover and ShadeTree* Water Repellent or similar products, if water repellency is a factor.
- 4. When washing or cleaning, DO NOT SUBJECT TO EXCES-SIVE HEAT as the fabric will shrink. DO NOT STEAM PRESS OR DRY IN ELECTRIC OR GAS DRYERS, but allow to air dry.
- In cases where canopies are taken down & stored, they should be cleaned and allowed to air dry, before being stored in a dry, well ventilated area.

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We regularly use pictures in our advertising materials. If you send us reproducible pictures of your new ShadeTree* canopy installation, and we use them in any of our advertising, we will send you \$50. Interesting before-and-after pictures will receive an additional \$50. Of course, attractive landscaping and patio furniture will be a factor in selecting pictures to be used. Architects, builders and installers will receive credit mentions in the advertising.





Bill of Materials	als	
Extrusions	Qty	Cut Ln:
Column Kits (12')	2	144

Track A Header A

NON

144 148.875 254.375

Parts			
Mid Supp	Mid Support Brackets	6	
End Supp	End Support Brackets	2	
Mounting	Mounting Assembly	8	
End Beam Caps	n Caps	12	
HD Alumi	HD Aluminum Top Locks	14	
Canopy	Width		
A	46 7/8	2	127.625
Crossmei	Crossmember Spacing @	6	26.875
В	42 1/2	3	131.375
Crossmei	Crossmember Spacing @	6	27.625
SEE P	SEE PRODUCTION ORDER FOR SPACING	FOR S	PACING

Aluminum Pergola (Attached)

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ShadeTree

Retractable Patio & Deck Canopies

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Drawn by: GF

6317 Busch Blvd. Columbus, Oh 43229 Phone: 614-844-5990 Fax: 614-844-5991

File: Hopkins, Beryll A Pergola 1
Date: 09/11/20

Record #: 371485

Hopkins Project







