



The County Of
Powhatan

**Residential Permit Application Requirements for
Sheds, Carports, Additions, etc.**

- Zoning Compliance Affidavit- Required for all new structures and additions to existing structures.
- Building Plans – 2 complete sets of plans drawn (may be hand drawn) to scale
 - Deck plans indicating all beams, girders, joists, posts, and footing sizes
 - Pre-fab structures (metal buildings, carports, etc.) including anchoring method per manufactured specs
- If applicant is a Home Owner – Submit the Affidavit of Exemption from Contractor Licensing (must be notarized).
- If applicant is a Contractor – Submit copies of Contractor’s License and County of Powhatan Business License.
- Site Plan (**copy of plat**) – Submit two (2) copies depicting proposed structure(s) and distance measured in feet to property lines at the front, sides, and rear.
- Permit Application must be signed.
- Shrink/swell soil analysis report (if required by subdivision plat or if located in area identified on the Powhatan County Soil map as having a moderate or high shrink/swell potential) - Submit two (2) copies.
- Engineered footing/foundation design if soil report confirms moderate or high shrink/swell soil conditions or other adverse soil conditions at building site. Submit two (2) copies.

Note: When adding a bedroom, verification is needed from the Health Department (598-5680) showing that the existing septic system is adequately sized to handle an additional bedroom.

COUNTY OF POWHATAN
Building Inspections Department
3834 Old Buckingham Road, Suite F
Powhatan, VA. 23139
(804) 598-5622-Phone (804) 598-5877-Fax
www.powhatanva.gov

RESIDENTIAL CONSTRUCTION Permit Application

PERMIT NUMBER: _____ DATE OF APPLICATION: _____ RECEIVED BY: _____

OWNER NAME: _____
Last name First name Middle initial

ADDRESS: _____ SITE ADDRESS: _____
(If different)

ZIP: _____ ZIP: _____

CONTACT PHONE: _____ CONTACT EMAIL: _____

SUBDIVISION: _____

LOT: _____ BLOCK: _____ SECTION: _____

SETBACKS OF PROPOSED BUILDING:

FRONT: _____ BACK: _____ RIGHT: _____ LEFT: _____

**IT IS THE RESPONSIBILITY OF THE BUILDER TO ASSURE FRONT, SIDE AND REAR-YARD
SETBACK REQUIREMENTS ARE MET AND THAT SOILS ARE SUITABLE FOR FOOTINGS**

TAX PARCEL #: _____ TOTAL ACREAGE OF LOT: _____

WATER: (Check one) [] Public [] Private Well SEWAGE: (Check one) [] Public [] Private Septic

STRUCTURE: (Check one) [] ADDITION [] ALTERATION [] NEW CONSTRUCTION [] TEMPORARY

NATURE OF WORK: _____
(Examples: Single Family Dwelling, 2 Story, 4 BR, Basement, Attached Garage, Deck, Swimming Pool etc.)

CONTRACTOR: _____ STATE LICENSE NO. _____
Last name, First name Middle initial

TRADING AS: _____ CLASS: _____ EXPIRATION: _____

ADDRESS: _____ SPECIALTY CLASSIFICATION(S): _____

PHONE: _____

BUSINESS LICENSE NO. _____ LOCALITY _____ EXPIRATION: _____

(THIS SECTION TO BE COMPLETED BY COUNTY STAFF)

Use Group: _____ Use Code: _____ Fed. Use Code: _____ Construction Type: _____

Magisterial Dist.: _____ Zoning: _____ Traffic Area: _____ Voting Dist.: _____

USBC Edition: _____ Hydrologic Unit: _____ Route #: _____ Floodplain: Y/N _____

Site Plan # _____ Variance/Conditional Use Permit# _____ Occupant Load: _____

Planning & Zoning Approval _____ Building Dept. Approval _____

CHECK EACH PERMIT TYPE FOR WHICH APPLICATION IS MADE AND PROVIDE REQUESTED INFORMATION

SINGLE FAMILY DWELLING **DUPLEX** Value: \$ _____ Total Sq. Ft: _____

# Stories	# Bed Rooms	# Full Baths
# Half Baths	# Kitchens	Type of Heat
Basement Y/N	% Basement Finished	Flue Y/N (Type)
# Fireplaces	Type of Fireplace	Exterior Finish
Sq. Ft. Porch	Sq. Ft. Deck	Sq. Ft. Basement
Sq. Ft. 1st Floor	Sq. Ft. 2nd Floor	Sq. Ft. 3 rd Floor
Sq. Ft. Garage	Unfinished Space	Other

ADDITION, ALTERATION, REPAIR, ACCESSORY STRUCTURES

Value of Improvement: \$ _____ Total Sq. Ft: _____

#Rooms Added	#Bed Rooms Added	#Bath Rooms Added
#Decks & Size	#Porches	#Kitchens Added
Garage Y/N	Carport Y/N	Storage Shed Y/N
(circle one) Attached/Detached	(circle one) Attached / Detached	(circle one) Attached/Detached
Square Feet Added	Flue Y/N	Fireplace Y/N
Other Work (Specify): _____		

MANUFACTURED/MOBILE HOME Value: \$ _____ Total Sq. Ft.: _____

Dimensions	Model Year	Manufacturer
#Bedrooms	#Baths	
Deck Size	Porch Size	

DEMOLITION Value: \$ _____ (Total cost of demolition)

Describe building or building element to be demolished _____

Have all utilities been disconnected? Yes No If No, explain _____

Please provide appropriate documentation (receipts) that demolition debris has been properly disposed of.

MECHANICS LIEN AGENT (ONE AND TWO FAMILY DWELLINGS ONLY)

I request that the following mechanics lien agent be listed on my permit.

Name: _____ Phone: _____

Street or P.O. Box: _____ City, State, Zip: _____

I certify that I am legally authorized to make this application. I also certify that all construction will be executed in accordance with the applicable provisions of the Virginia Uniform Statewide Building Code and the Ordinances of Powhatan County. No portion of the work executed under this permit will be used or occupied until a Final Inspection and/or Certificate of Occupancy is granted.

Applicant Signature

Date

Print Name

Applicant is Building Owner Owner's Agent Contractor/Contractor's Agent

NOTE: If the permit applicant does not hold a Contractor's license issued by the Virginia Department of Professional and Occupational Regulation, submit a notarized Affidavit of Exemption from Contractor Licensing. Cash and check are the only acceptable forms of payment.

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**RESIDENTIAL GAS
Permit Application**

PERMIT NUMBER: _____ DATE OF APPLICATION: _____ RECEIVED BY: _____

OWNER NAME: _____
Last name First name Middle initial

SITE ADDRESS: _____

ZIP: _____ PHONE: _____

CHECK ONE [] NEW INSTALLATION [] REPAIR [] ALTERATION and/or EXTEND EXISTING SYSTEM

NATURE OF WORK: _____

CONTRACTOR: _____ STATE LICENSE NO. _____
Last name, First name Middle initial

TRADING AS: _____ CLASS: _____ EXPIRATION: _____

ADDRESS: _____ SPECIALTY CLASSIFICATION(S): _____
_____ PHONE: _____

BUSINESS LICENSE: _____ ISSUED BY: _____ EXPIRATION DATE: _____

Note: Furnish copies of State Contractor license and Local Business license (even if licensed in another jurisdiction). County of Powhatan business license is required when the total amount of transactions in Powhatan exceed \$25,000 in a calendar year. Businesses within Powhatan are required to hold a current Powhatan business license when gross receipts are \$3,000 or more in a calendar year, regardless of where work is being conducted. Contact County of Powhatan Commissioner of the Revenue for business license information, (804) 598-5619. (Update required for changes of address or status and upon license renewal. Notify Virginia Board for Contractors within 10 days upon change of address.)

Continued on next page

Contract Value: \$ _____

Check all applicable items below:

Tank Size	_____	Above Ground	_____	Under Ground	_____
Propane	_____	Natural	_____	Piping Outside Y/N	_____
Piping Y/N	_____	Piping Inside Y/N	_____		

Other Work (Specify):

If gas appliances are to be installed, the below must be completed with the BTU rating indicated.

Equipment	_____	Dryer	_____	Generator	_____
Logs	_____	Range/Oven	_____	Decorative Appliance	_____
Water Heater	_____	Tankless Water Heater ..	_____	Unit Heater	_____
# Fireplaces	_____	Furnace	_____	Illuminating Appliance ...	_____

Other Work (Specify):

PERMIT FEES:

Refer to the separate FEES SCHEDULE document for complete list of fees. All fees plus state levy are to be paid upon application for a permit.

The Commonwealth of Virginia requires every jurisdiction to collect a 2% fee levy on each permit issued. This amount is added to the permit fee collected by the county at the time of application for a permit (e.g., \$50 permit fee + \$1.00 levy = \$51.00 total). Cash or check are only acceptable forms of payment.

By signing this application the applicant acknowledges responsibility for the above matters.

I certify that I am legally authorized to make this application. I also certify that all construction will be executed in accordance with the applicable provisions of the Virginia Uniform Statewide Building Code and the Ordinances of Powhatan County. No portion of the work executed under this permit will be used or occupied until a Final Inspection and/or Certificate of Occupancy is granted.

Applicant Signature

Date

Print Name

Applicant is Building Owner Owner's Agent Contractor/Contractor's Agent

NOTE: If the permit applicant does **not** hold a Contractor's license issued by the Virginia Department of Professional and Occupational Regulation and is the property owner, submit a notarized Affidavit of Exemption from Contractor Licensing.

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RESIDENTIAL
ELECTRICAL, MECHANICAL, and PLUMBING
Permit Application

This abbreviated application may be used to obtain the above permits when a Building Permit has already been issued. Provide permit number, owner's name, location of work and all other applicable information.

PERMIT NUMBER: _____ DATE OF APPLICATION: _____ RECEIVED BY: _____

OWNER NAME: _____
Last name First name Middle initial

SITE ADDRESS: _____

EMAIL: _____

ZIP: _____ PHONE: _____ FAX: _____

ELECTRIC SERVICE: (Check one) [] Southside Electric Co-Op [] Dominion Power; Inquiry Number: _____

WATER: (Check one) [] Public [] Private Well SEWAGE: (Check one) [] Public [] Private Septic

CHECK ONE [] NEW INSTALLATION [] REPAIR [] ALTERATION and/or EXTEND EXISTING SYSTEM

NATURE OF WORK: _____

COMMERCIAL Y/N: _____ DESCRIBE: _____

Note: Asbestos and Demolition Certification Form is required to be submitted with permit applications for all commercial repair, alteration, or demolition work.

CONTRACTOR: _____ STATE LICENSE NO. _____
Last name, First name Middle initial

TRADING AS: _____ CLASS: _____ EXPIRATION: _____

ADDRESS: _____ SPECIALTY CLASSIFICATION(S): _____

PHONE: _____

BUSINESS LICENSE: _____ ISSUED BY: _____ EXPIRATION DATE: _____

Note: Furnish copies of State Contractor license and Local Business license (even if licensed in another jurisdiction). County of Powhatan business license is required when the total amount of transactions in Powhatan exceed \$25,000 in a calendar year. Businesses within Powhatan are required to hold a current Powhatan business license when gross receipts are \$3,000 or more in a calendar year, regardless of where work is being conducted. Contact County of Powhatan Commissioner of the Revenue for business license information, (804) 598-5619. (Update required for changes of address or status and upon license renewal. Notify Virginia Board for Contractors within 10 days upon change of address.)

NOTE: If the permit applicant does **not** hold a Contractor's license issued by the Virginia Department of Professional and Occupational Regulation, submit a notarized Affidavit of Exemption from Contractor Licensing.

Continued on next page

CHECK EACH PERMIT TYPE FOR WHICH APPLICATION IS MADE AND PROVIDE REQUESTED INFORMATION

ELECTRICAL PERMIT Contract Value: \$ _____

#Panels	_____	#Circuit	_____	Service Ampacity	_____
#Receptacles	_____	#Switches	_____	#Fixtures	_____
#Clothes Dryer	_____	#Elec Range/Oven	_____	Base Board Heat Y/N	_____
Water Heater Y/N	_____	Heat Pump Y/N	_____	Available Fault Current	_____
Service Ent Conductor Size	_____	Aluminum or Copper	_____	(Obtain from power company)	
Change of service Y/N ...	_____				

Other Work (Specify): _____

MECHANICAL/HVAC Contract Value: \$ _____

Type of Equipment to be installed _____
 Fuel Type (Gas, Electric, Oil, Solar, Wood) _____ BTU Rating _____
 Location (Attic, Crawlspace, Garage, etc) _____
 Duct Material (Rigid metal, Fiberglass, Flexible) _____
 Wood Stove Y/N _____ Listed & Labeled Y/N _____
 Installation of Gas Piping Y/N _____

Other Work (Specify): _____

PLUMBING PERMIT Contract Value: \$ _____

#Water Closets	_____	#Bath Tubs	_____	#Showers	_____
#Basins	_____	#Kitchen Sinks	_____	#Laundry Sinks	_____
#Clothes Washer	_____	#Dishwashers	_____	#Mop Sinks	_____
#Water Heaters	_____	#Floor Drains	_____	#Hose Bibs	_____
Boiler Y/N	_____				

Other Work (Specify): _____

PERMIT FEES:

Refer to the separate FEES SCHEDULE document for complete list of fees. All fees plus state levy are to be paid upon application for a permit. *Only cash or check are acceptable payment methods.*

The Commonwealth of Virginia requires every jurisdiction to collect a 2% fee levy on each permit issued. This amount is added to the permit fee collected by the county at the time of application for a permit (i.e., \$50 permit fee + \$1.00 levy = \$50.00 total).

By signing this application the applicant acknowledges responsibility for the above matters.

I certify that I am legally authorized to make this application. I also certify that all construction will be executed in accordance with the applicable provisions of the Virginia Uniform Statewide Building Code and the Ordinances of Powhatan County. No portion of the work executed under this permit will be used or occupied until a Final Inspection and/or Certificate of Occupancy is granted.

Applicant Signature

Date

Print Name

Applicant is Building Owner Owner's Agent Contractor/Contractor's Agent



The County Of
Powhatan

ZONING COMPLIANCE
AFFIDAVIT

For Office Use Only	
Building Permit #	
Date of Submittal	
Received By	

Site Address _____

In signing this affidavit, the property owner and/or contractor understands and agrees to the following:

- The proposed use(s), distances from property lines, and distances from other structures as listed on the attached application are correct.
- It is the responsibility of the property owner and his contractor to ensure that the building is constructed/sited in compliance with the setback distances required for this structure by the Zoning Ordinance.
- The County bears no responsibility for construction/siting errors.
- The contractor is aware of all zoning requirements pertinent to this project.
- If the building is sited in violation of any setback distance, the property owner will be required to demolish or move the portion of the building not in compliance or take other corrective measures to avoid legal action from the County of Powhatan. The law does not favor variances granted for any construction or siting errors resulting from failure to follow the approved permit.
- Construction siting errors are not considered hardships by the Planning Department, and the Board of Zoning Appeals has been so informed.

Check one: **Property Owner** **Contractor**

I, _____, know and understand the requirements of the attached zoning permit as well as provisions of the Powhatan County Zoning Ordinance pertinent to this project. I understand that if this project results in the violation of any provision of the Zoning Ordinance, the property owner or contractor, or both, will be subject to legal action by the County of Powhatan.

Signature

Date

Subscribed and acknowledge to before me this _____ day of _____, 20____, in the City/County of _____, Virginia.

Notary Public

Commission Expiration

Notary registration number



The County Of

Powhatan

AFFIDAVIT OF EXEMPTION FROM CONTRACTOR LICENSING

All permit applicants who do not hold a valid state contractor's license are required to complete this affidavit. This is a sworn legal document. The applicant's signature shall be witnessed by a Notary.

As applicant for a building permit for work to be performed at the following location:

(Location of work)

And pursuant to the provisions §54.1-1111, Code of Virginia, I swear I am exempt from any requirement to be licensed as a contractor in the Commonwealth of Virginia for the following reason: (check one):

I will perform or supervise the construction, removal, repair or improvement of no more than one building for retail use, one building for commercial use or one residence upon my own real property and for my own personal use during any twenty-four-month period; (personal use excludes buildings owned by the applicant but rented otherwise let out to tenants)

I will perform or supervise the construction, removal, repair or improvement of a house upon my own real property as a bona fide gift to a member of my immediate family who will reside in the house ("immediate family" includes one's mother, father, son, daughter, brother, sister, grandchild, grandparent, mother-in-law and father-in-law);

I am lessee of the relevant property or the agent of either or by the RDP, contractor or subcontractor associated with the work or any of their agents. I am not required to have a contractor license pursuant to Chapter 11 of Title 54.1 of the Code of Virginia.

I am a contractor as defined in §54.1-1100, however, the total contract value of the work to be performed does not exceed \$1,000.00 and does not include landscape irrigation or water well construction. If the work includes plumbing, electrical, HVAC or gas piping, the applicant shall hold a Master Tradesman Certification issued by the Virginia Department of Professional and Occupational Regulation. Certification #: _____

Applicant Signature _____ Phone _____

Address _____ Subscribed and
acknowledge to before me this _____ day of _____, 20____, in the City/County of
_____, Virginia.

Notary Public

Commission Expiration

Notary registration number



The County Of
Powhatan

**MECHANICS LIEN AGENT
ADDITION/CHANGE FORM**

****Areas with asterisks must be filled in to process your request****

**Permit #	Date:	Received By:	
**Applicant:		**Phone Number:	
**Applicants Address:			
**Site Address:			
Subdivision:	Lot:	Block:	Section:

OLD Mechanics Lien Agent:

**Name:	**Phone Number:
**Address:	

New Mechanics Lien Agent:

**Name:	**Phone Number:
**Address:	

FEES: \$25.00 Mechanics Lien Agent Change fee is due at the time of application.

Check one:

Property Owner

Contractor

Applicant:	Phone #:
Signature:	Date:



POWHATAN COUNTY DECKS, PORCHES, STAIRS AND RAMPS

DIRECTIONS

CHESTERFIELD COUNTY DEPARTMENT OF BUILDING INSPECTIONS HAS PREPARED THIS GUIDE FOR BASIC DECKS, PORCHES, STAIRS AND RAMPS. YOU MAY USE IT BY FILLING IN THE DESIGN SHEET(S) WITH THE SPECIFICATIONS OF YOUR DECK OR PORCH.

IF THE DECK OR PORCH IS BEING CONSTRUCTED ON A NEW HOUSE OR IS BEING BUILT AS AN ADDITION TO AN EXISTING HOUSE, CONSTRUCTION DOCUMENTS (i.e. PLANS) ARE REQUIRED, INCLUDING:

1. PLAN VIEW OF THE DECK OR PORCH, INCLUDING THE LOCATION OF THE FOOTINGS,
2. PLAT SHOWING EXACT LOCATION AND DIMENSIONS TO THE PROPERTY LINES,
3. SECTION VIEW OF THE DECK OR PORCH, INCLUDING DETAILS OF THE END AWAY FROM THE HOUSE, AND THE END NEAREST THE HOUSE. THE SECTION SHOULD SHOW THE MATERIALS, THE FOOTINGS AND THE HEIGHTS OF ALL THE COMPONENTS.

SUBMIT

- 1 COPY OF YOUR PLAT PLAN,
- 2 COPIES OF THE DECK PLAN AND SPECIFICATION SHEETS,
- 2 COPIES OF THE DETAILS TO BE USED, INCLUDING THE STAIR AND/OR RAMP SHEET.

YOU WILL NEED THE FOLLOWING INSPECTIONS:

- A. FOOTING INSPECTION PRIOR TO THE PLACEMENT OF CONCRETE.
- B. FINAL INSPECTION.

NOTE: THE FOOTING INSPECTION AND FINAL INSPECTION CAN BE COMBINED INTO A SINGLE INSPECTION VISIT IF YOU USE SOLID CONCRETE BLOCKS AS THE FOOTING AND LEAVE THE FOOTINGS EXPOSED FOR THE INSPECTOR.

DECK AND PORCH DESIGN

THESE DESIGN SHEETS ARE GUIDELINES FOR A BASIC, SINGLE LEVEL DECKS AND PORCHES. IF A SPA, HOT TUB OR OTHER SPECIAL USE IS INTENDED, SEEK THE HELP OF A DESIGN PROFESSIONAL. THERE ARE MANY EXCELLENT REFERENCE BOOKS AVAILABLE FROM HOME IMPROVEMENT STORES, THE LIBRARY OR THE INTERNET TO PROVIDE CUSTOM DESIGNS AND CONSTRUCTION METHODS.

THESE DESIGN SHEETS ARE BASED ON THE PRESCRIPTIVE REQUIREMENTS OF THE 2012 VIRGINIA RESIDENTIAL CODE (VA-IRC) AND IN SOME CASES EXCEED THE CODE BASED ON CURRENT "BEST PRACTICES" ENCOURAGED IN CHESTERFIELD COUNTY. THIS DOCUMENT IS NOT INTENDED TO PRECLUDE THE USE OF OTHER CONSTRUCTION METHODS OR MATERIALS.

GENERAL REQUIREMENTS

1. DECK FRAMING IS BASED ON 40 LBS PER SQ FT LIVE LOAD AND 10 LBS PER SQ FT DEAD LOAD. THE PORCH ROOF IS BASED ON 20 LBS PER SQ FT SNOW LOAD AND 10 LBS PER SQ FT DEAD LOAD.
2. ALL DECK MATERIALS SHALL BE PRESERVATIVE TREATED (P.T.) LUMBER OR COMPOSITE MATERIAL SPECIFICALLY DESIGNED FOR DECKS AND OUTSIDE USE, OR FOR USE IN CONTACT WITH THE GROUND. ALL CUT MATERIALS SHALL HAVE THEIR ENDS TREATED WITH AN APPROVED PRESERVATIVE, SUCH AS COPPER NAPHTHENATE.
3. TO RESIST CORROSION FOR USE WITH PRESERVATIVE TREATED (P.T.) WOOD, THE FOLLOWING IS REQUIRED:
 - BORATE TREATED 2X LUMBER MAY NOT BE USED IN CONTACT WITH THE GROUND.
 - ALL SCREWS, BOLTS, NAILS AND FASTENERS SHALL BE HOT-DIPPED GALVANIZED (HDG IN ACCORDANCE WITH ASTM A-153 OR B-695, CLASS 55), STAINLESS STEEL, OR AN APPROVED SPECIAL COATED FASTENER FOR USE WITH ALKALINE COPPER QUAT (ACQ) PRESERVATIVE TREATED LUMBER.
 - WHERE A MATERIAL IS LISTED AS "HDG" IN THIS GUIDE, ANY OF THE ABOVE MENTIONED MATERIALS MAY BE SUBSTITUTED.
4. FLASHING SHALL BE A MINIMUM 19 MIL THICK CORROSION-RESISTANT METAL OR AN APPROVED NON-METALIC MATERIAL. BRIGHT ALUMINUM FLASHING IS NOT ALLOWED.
5. IF YOU ARE ATTACHING THE DECK TO THE HOUSE, THE HOUSE SHALL HAVE A PRESERVATIVE TREATED, NOMINAL SIZE, WOOD BAND BOARD ALONG THE ENTIRE LENGTH OF THE ATTACHMENT AREA. PLYWOOD IS NOT ACCEPTABLE.
6. WHERE THRU BOLTS ARE TO BE USED, COMPATIBLE SIZED WASHERS AND NUTS ARE ASSUMED TO BE PART OF THE ASSEMBLY.
7. DO NOT ATTACH THE LEDGER BOARD TO OR THROUGH BRICK VENEER.
8. DO NOT CONSTRUCT FOOTINGS OVER UTILITY LINES. CALL MISS UTILITY AT 811 BEFORE YOU START!
9. DO NOT CONSTRUCT THE FOOTINGS OVER A SEPTIC FIELD. SEEK ADVICE FROM THE HEALTH DEPARTMENT.
10. DO NOT ATTACH A DECK OR PORCH TO A TRAILER OR MOBILE HOME.
11. CHESTERFIELD DOES NOT PERMIT "ON-GRADE DECK BLOCKS" TO BE USED. THESE ARE TAPERED SHAPED CONCRETE BLOCKS INTENDED TO BE SET ON THE TOP OF THE SOIL. THEY HAVE SLOTS AND RECESSES IN THEM FOR STRUCTURAL MEMBERS.

HOW TO USE THIS GUIDE

1. DECIDE ON THE APPROXIMATE DIMENSIONS AND LOCATION OF THE DECK OR PORCH YOU WANT TO BUILD.
2. DECIDE ON THE FRAMING STYLE YOU PREFER: CANTILEVERED, FREE STANDING, FLUSH STYLE, ETC.
3. NEXT, MAKE DECISIONS ON THE MATERIALS YOU WANT TO USE. A LUMBER SIZING GUIDE IS INCLUDED ON SHEET 3.
 - A. DECIDE ON THE SIZE OF YOUR DECK JOISTS.
 - B. DECIDE ON THE NUMBER OF FOOTINGS.
 - C. SIZE THE COMPONENTS:
 1. BEAM(S),
 2. JOISTS,
 3. DECK POSTS,
 4. FOOTINGS,
 5. DECK BOARDS,
 6. RAFTERS (IF APPLICABLE).
4. BASED ON YOUR DECISIONS IN STEP 3, SPECIFY THE LENGTH AND WIDTH DIMENSIONS OF YOUR DECK AND COMPLETE THE LIST OF MATERIALS ON THE DECK SPECIFICATION SHEET, SHEET 1.
5. FOR YOUR CONVENIENCE, WE HAVE PROVIDED TYPICAL CROSS-SECTION SKETCHES OF VARIOUS CONNECTIONS ON SHEET 4. USE THEM IF YOU PREFER, OR DESIGN YOUR OWN DETAILS AND PROVIDE YOUR SKETCHES.
6. DRAW A PLAN OF YOUR PROPERTY (REFERRED TO AS A "PLAT"). SKETCH YOUR HOUSE AND SHOW WHERE THE DECK IS INTENDED TO BE CONSTRUCTED. PROVIDE APPROXIMATE DIMENSIONS OF THE DECK TO YOUR PROPERTY LINES.
7. USE THE ATTACHED DETAILS FOR OTHER ASPECTS OF THE CONSTRUCTION.

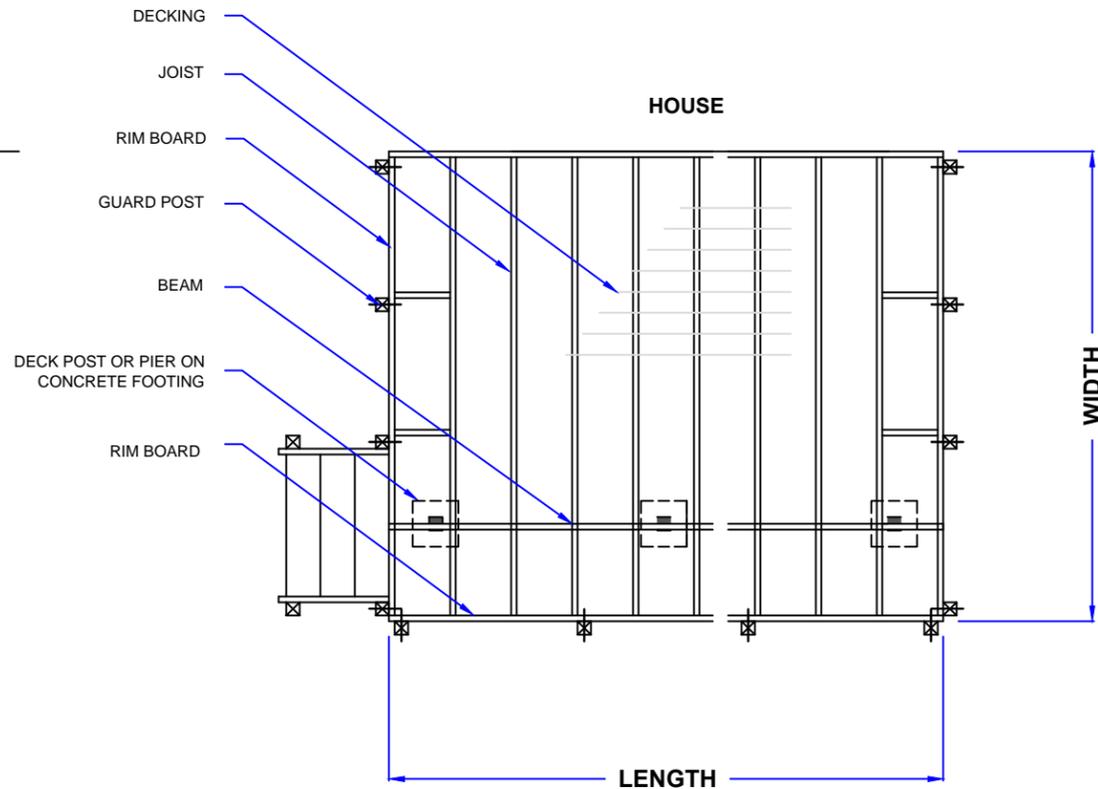
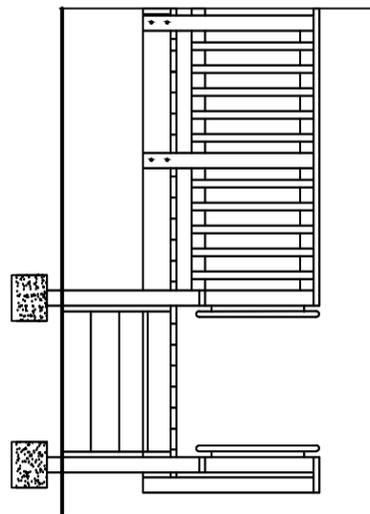
LIST OF DRAWINGS IN THIS DECK GUIDE:

1. DECK SPECIFICATIONS
2. PORCH SPECIFICATIONS
3. MEMBER SIZING
4. CONNECTIONS
5. DETAILS
6. PICTURES

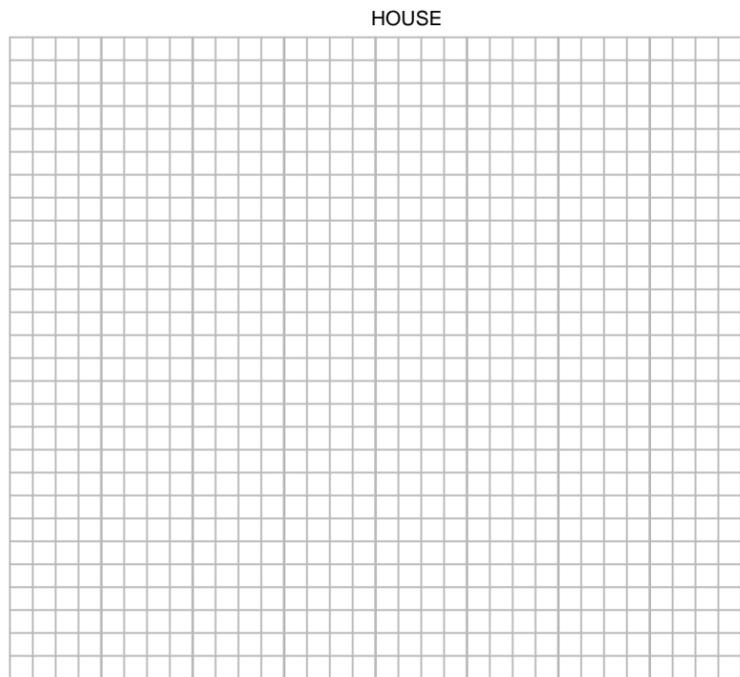
STANDARD ABBREVIATIONS

HDG - HOT DIPPED GALVANIZED (IN ACCORDANCE WITH ASTM A-153 OR B695, CLASS 55)
 O.C. - ON CENTER
 P.T. - PRESERVATIVE TREATED
 FT - FEET
 IN - INCH

SIDE VIEW

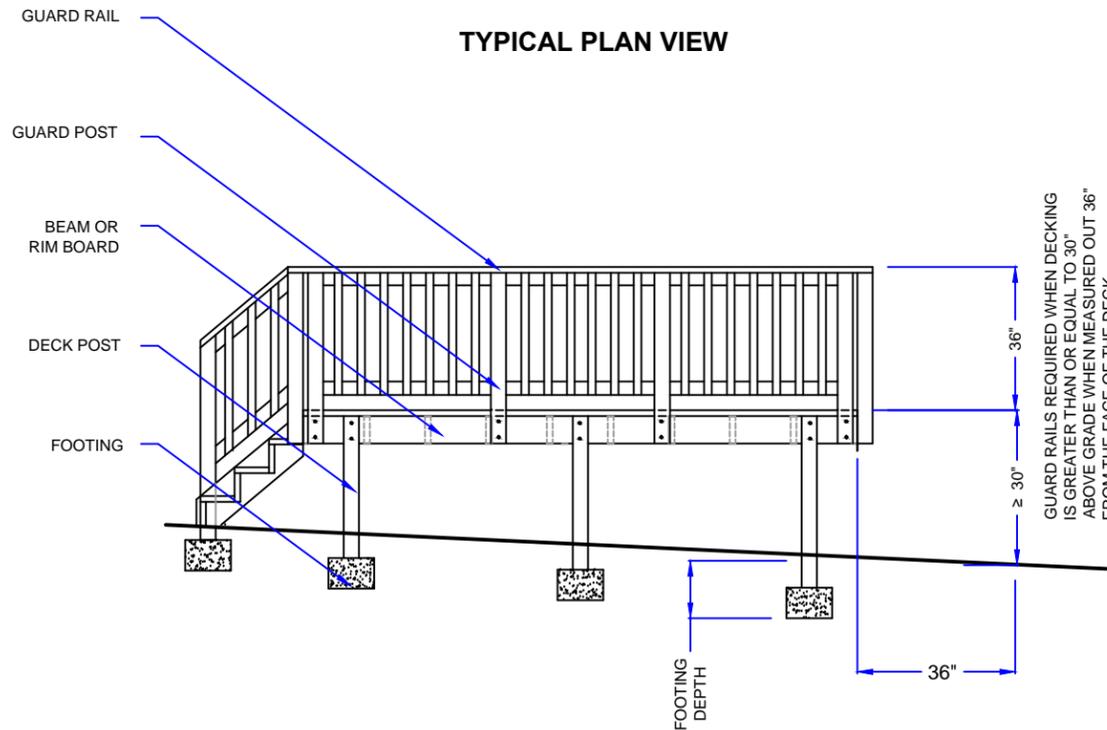


TYPICAL PLAN VIEW



SKETCH YOUR DECK PLAN IN RELATIONSHIP TO THE HOUSE (IN REASONABLE SCALE).
SHOW HOW MANY AND APPROXIMATE LOCATION OF FOOTINGS YOU WILL BE USING.

PLAN VIEW



TYPICAL FRONT VIEW

DECK PLAN SPECIFICATIONS

Fill in all the blanks

OVERALL DIMENSIONS

		Example
LENGTH	_____ FT	10 FT
WIDTH	_____ FT	8 FT
MAX. HEIGHT ABOVE GRADE (measured out 36" from deck - see picture on sheet 6)	_____ FT	3 FT
FREE STANDING (i.e. minimum of 2 beams)	_____ YES OR NO	YES
CANTILEVERED (0 IN means there is no cantilever)	_____ IN	24 IN

DECK POSTS

DECK POST SIZE OR PIER SIZE (see sheet 3)	_____ x _____ IN	6 x 6 IN
DECK POST SPACING	_____ FT O.C.	5 FT O.C.

FOOTINGS

FOOTING SIZE (see sheet 3)	_____ x _____ x _____ IN	12 x 12 x 8 IN
FOOTING DEPTH	_____ IN	18 IN
NUMBER OF FOOTINGS (including footings for stairs)	_____ TOTAL	6 TOTAL

BEAMS

BEAM SIZE (see sheet 3)	(_____) 2 x _____	(2) 2 x 8
END CONDITION AWAY FROM HOUSE (select one based on detail sheet 4)	_____ A,B,C,D or E	B
END CONDITION AT HOUSE (select one based on detail sheet 4)	_____ 1,2, or 3	2

JOISTS

JOIST SIZE (see sheet 3)	2 x _____ @ _____ IN O.C.	2 X 8 @ 16" O.C.
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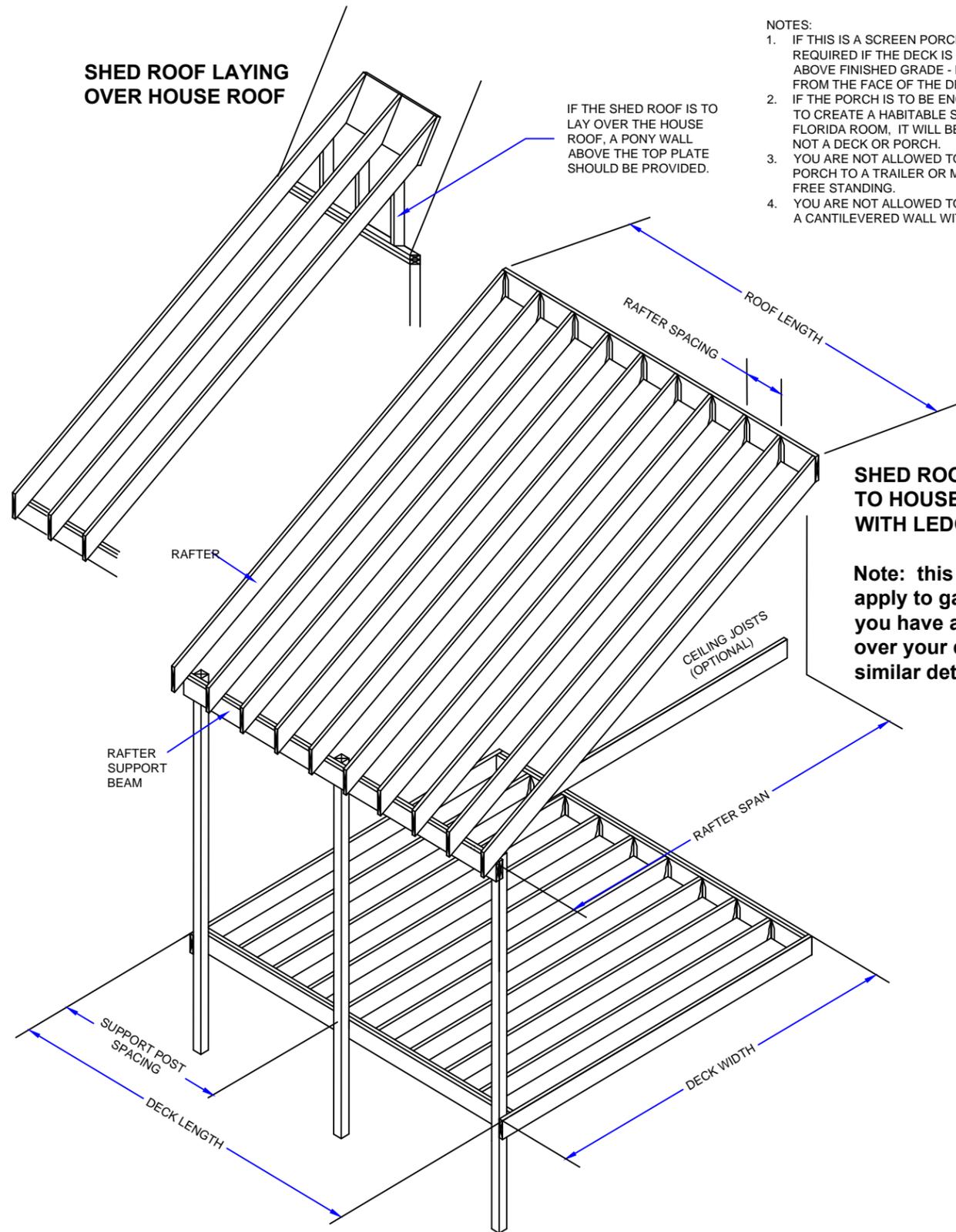
DECKING

DECKING BOARD SIZE 2X6, 5/4 BOARDS OR OTHER (see sheet 3)	_____	5/4 BOARDS
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DECK SPECIFICATIONS

10/27//2015

1



- NOTES:
1. IF THIS IS A SCREEN PORCH, A GUARDRAIL WILL BE REQUIRED IF THE DECK IS GREATER THAN 30 INCHES ABOVE FINISHED GRADE - MEASURED AT 36 INCHES FROM THE FACE OF THE DECK.
 2. IF THE PORCH IS TO BE ENCLOSED WITH SOLID WALLS TO CREATE A HABITABLE SPACE, SUNROOM OR FLORIDA ROOM, IT WILL BE CONSIDERED AN ADDITION, NOT A DECK OR PORCH.
 3. YOU ARE NOT ALLOWED TO CONNECT A DECK OR PORCH TO A TRAILER OR MOBILE HOME. IT MUST BE FREE STANDING.
 4. YOU ARE NOT ALLOWED TO ATTACH A SHED ROOF TO A CANTILEVERED WALL WITHOUT ENGINEER'S DESIGN.

SHED ROOF ATTACHED TO HOUSE STUD WALLS WITH LEDGER

Note: this detail does not apply to gable end roof. If you have a gable roof over your deck, provide similar details.

MINIMUM RAFTER SUPPORT BEAM						
POST SPACING (FT)	RAFTER SPAN (FT)					
	6	8	10	12	14	16
4	(1) 2X6					
5	(1) 2X6	(1) 2X8 or (2) 2x6				
6	(1) 2X6	(1) 2X6	(1) 2X6	(1) 2X8 or (2) 2x6	(1) 2X8 or (2) 2x6	(1) 2X8 or (2) 2x6
7	(1) 2X6	(1) 2X8 or (2) 2x6	(1) 2X8 or (2) 2x6	(1) 2X8 or (2) 2x6	(1) 2X10 or (2) 2x8	(1) 2X10 or (2) 2x8
8	(1) 2X8 or (2) 2x6	(1) 2X8 or (2) 2x6	(1) 2X10 or (2) 2x6	(1) 2X10 or (2) 2x8	(1) 2X12 or (2) 2x8	(1) 2X12 or (2) 2x8
9	(1) 2X8 or (2) 2x6	(1) 2X10 or (2) 2x6	(1) 2X10 or (2) 2x8	(1) 2X12 or (2) 2x8	(1) 2X12 or (2) 2x8	(2) 2X10
10	(1) 2X8 or (2) 2x6	(1) 2X10 or (2) 2x8	(1) 2X12 or (2) 2x8	(2) 2X8	(2) 2X10	(2) 2X10
11	(1) 2X10 or (2) 2x6	(1) 2X12 or (2) 2x8	(2) 2X10	(2) 2X10	(2) 2X10	(2) 2X12
12	(1) 2X12 or (2) 2x8	(1) 2X12 or (2) 2x8	(2) 2X10	(2) 2X12	(2) 2X12	(2) 2X12

MAXIMUM RAFTER SPANS (a) (b)			
SIZE	RAFTER SPACING (o.c.)	MAXIMUM RAFTER SPANS WITH CEILING JOISTS	MAXIMUM RAFTER SPANS WITHOUT CEILING JOISTS
2X4	12"	9'-5"	10'-4"
	16"	8'-7"	9'-0"
	24"	7'-4"	7'-4"
2X6	12"	14'-9"	15'-7"
	16"	13'-5"	13'-6"
	24"	11'-0"	11'-0"
2X8	12"	19'-6"	19'-8"
	16"	17'-1"	17'-1"
	24"	13'-11"	13'-11"
2X10	12"	23'-5"	23'-5"
	16"	20'-3"	20'-3"
	24"	16'-6"	16'-6"
2X12	12"	>26'-0"	>26'-0"
	16"	23'-10"	23'-10"
	24"	19'-6"	19'-6"

(a) BASED ON 2012 VA-IRC SPAN TABLES FOR SOUTHERN PINE #2. FOR OTHER SPECIES, REFER TO THE CODE BOOK.
 (b) ASSUMES 20 PSF GROUND SNOW LOAD AND 10 PSF DEAD LOAD.

PORCH (ROOF) SPECIFICATIONS

IF APPLICABLE - Fill in all the blanks

ARE YOU CONSTRUCTING A PORCH ON NEW FOOTINGS?
 _____ YES _____ NO

ARE YOU ADDING A ROOF TO AN EXISTING DECK?
 _____ YES _____ NO

WILL IT BE A SCREENED PORCH?
 _____ YES _____ NO

PORCH (ROOF) SPECIFICATIONS

(IF APPLICABLE)

PORCH ROOF SIZE BEING BUILT

ROOF LENGTH _____ FT

ROOF SPAN _____ FT

ROOF SLOPE _____ : _____ (example 4:12)

ROOF SUPPORT POSTS

POST SIZE _____ X _____

POST SPACING _____ FT
 (IF THEY ARE NOT ALIGNED WITH FOOTINGS)

RAFTER SUPPORT BEAM

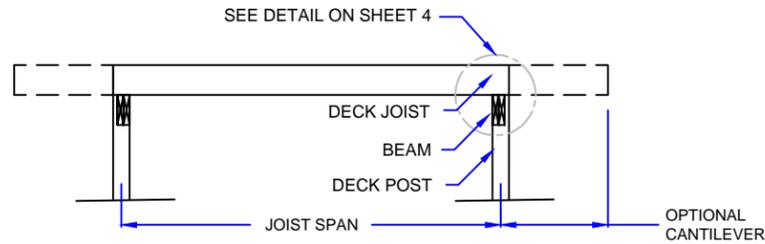
SIZE (_____) _____ X _____

RAFTERS

SIZE 2 x _____ @ _____ IN O.C.

JOISTS

THE SPAN OF THE JOIST IS MEASURED FROM THE CENTERLINE OF BEARING AT ONE END OF THE JOIST (I.E. TYPICALLY THE CENTERLINE OF THE POST) TO THE CENTERLINE OF BEARING AT THE OTHER END OF THE JOIST, AND DOES NOT INCLUDE THE LENGTH OF THE OVERHANGS (CANTILEVERS).

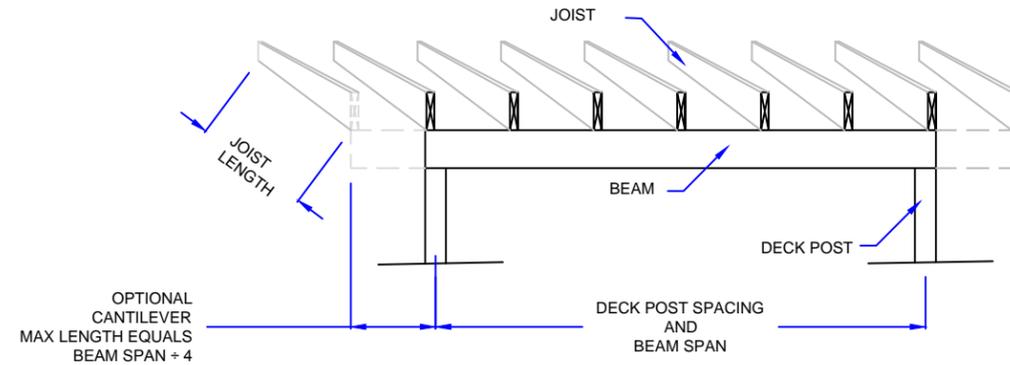


MAXIMUM JOIST SPAN (a) (c)						
SIZE	12" O.C.		16" O.C.		24" O.C.	
	MAXIMUM SPAN	MAXIMUM CANTILEVER (b)	MAXIMUM SPAN	MAXIMUM CANTILEVER (b)	MAXIMUM SPAN	MAXIMUM CANTILEVER (b)
2X6	9'-11"	1'-3"	9'-0"	1'-4"	7'-7"	1'-6"
2X8	13'-1"	2'-1"	11'-10"	2'-3"	9'-8"	2'-5"
2X10	16'-2"	3'-4"	14'-0"	3'-6"	11'-5"	2'-10"
2X12	18'-0"	4'-6"	16'-6"	4'-2"	13'-6"	3'-4"

- (a) BASED ON THE 2012 VA-IRC TABLE R507.5 FOR SOUTHERN PINE #2. FOR OTHER SPECIES, REFER TO TABLE. ALL LUMBER IS ASSUMED TO BE P.T. INCLUDING HOUSE BAND BOARDS THAT SUPPORT AN ATTACHED DECK.
- (b) CANTILEVER LENGTH IS BASED ON JOIST SPAN + 4 OR DEFLECTION, WHICHEVER IS SHORTER.
- (c) BASED ON 40 PSF LIVE LOAD AND 10 PSF DEAD LOAD.

BEAMS

- 1. BEAMS SUPPORT THE DECK JOISTS. THE JOISTS EITHER BEAR ON TOP OF THE BEAM FOR A CANTILEVER DESIGN, OR ARE HUNG FLUSH ALONG SIDE IT WITH MECHANICAL HANGERS.
- 2. TWO OR THREE MEMBERS MAY BE CONNECTED TOGETHER TO FORM THE BEAM USING 10-d HDG NAILS OR #10 HDG SCREWS, STAGGERED IN TWO ROWS, AT 16" O.C.
- 3. WHENEVER FOUR OR MORE MEMBERS ARE USED, THEY SHOULD BE BOLTED TOGETHER WITH 1/2" DIA HDG THRU-BOLTS AT 24" O.C.

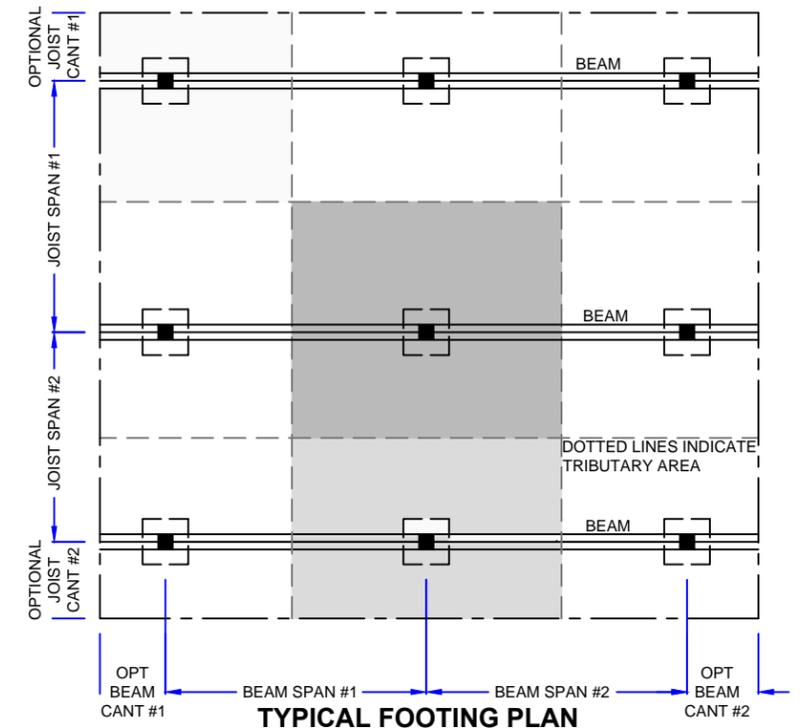


MINIMUM BEAM SIZE (a), (b)								
JOIST LENGTH	DECK POST SPACING AND BEAM SPAN							
	6 FT BEAM SPAN		8 FT BEAM SPAN		10 FT BEAM SPAN		12 FT BEAM SPAN	
	SIMPLE DECK (c)	COMPLEX DECK (d)	SIMPLE DECK (c)	COMPLEX DECK (d)	SIMPLE DECK (c)	COMPLEX DECK (d)	SIMPLE DECK (c)	COMPLEX DECK (d)
6 FT JOIST SPAN	(1) 2X8	(1) 2X8	(1) 2X10 OR (2) 2X8	(1) 2X12 OR (2) 2X8	(1) 2X12 OR (2) 2X10 OR (3) 2X8	(1) 2X12 OR (2) 2X10 OR (3) 2X8	(2) 2X10 OR (3) 2X8	(2) 2X12 OR (3) 2X10
8 FT JOIST SPAN	(1) 2X8	(1) 2X10 OR (2) 2X8	(1) 2X12 OR (2) 2X8	(1) 2X12 OR (2) 2X10	(2) 2X10 OR (3) 2X8	(2) 2X12 OR (3) 2X10	(2) 2X12 OR (3) 2X10	(3) 2X10
10 FT JOIST SPAN	(1) 2X10 OR (2) 2X8	(1) 2X10 OR (2) 2X8	(2) 2X8	(2) 2X10 OR (3) 2X8	(2) 2X12 OR (3) 2X8	(2) 2X12 OR (3) 2X10	(3) 2X10	(3) 2X12
12 FT JOIST SPAN	(1) 2X10 OR (2) 2X8	(1) 2X12 OR (2) 2X8	(2) 2X10 OR (3) 2X8	(2) 2X12 OR (3) 2X8	(2) 2X12 OR (3) 2X10	(3) 2X10	(3) 2X12	(3) 2X12
14 FT JOIST SPAN	(1) 2X12 OR (2) 2X8	(2) 2X8	(2) 2X10 OR (3) 2X8	(3) 2X12	(3) 2X10	(3) 2X12	(3) 2X12	DESIGN REQUIRED
16 FT JOIST SPAN	(1) 2X12 OR (2) 2X8	(2) 2X10 OR (3) 2X8	(2) 2X12 OR (3) 2X8	(3) 2X10	(3) 2X12	(3) 2X12	DESIGN REQUIRED	DESIGN REQUIRED
18 FT JOIST SPAN	(2) 2X10 OR (3) 2X8	(2) 2X10 OR (3) 2X8	(2) 2X12 OR (3) 2X10	(3) 2X10	(3) 2X12	DESIGN REQUIRED	DESIGN REQUIRED	DESIGN REQUIRED

- (a) BASED ON THE 2012 VA-IRC FOR SOUTHERN PINE #2, DOUGLAS FIR LARCH #2, HEM FIR #2, SPF #2, REDWOOD #2. FOR OTHER SPECIES OF MATERIALS, REFER TO SPECIES SPECIFIC DATA. ASSUMES 40 PSF LIVE LOAD, 10 PSF DEAD LOAD, WET SERVICE FACTOR AND P.T...
- (b) BEAM DEPTH MUST BE EQUAL TO OR GREATER THAN THE JOIST DEPTH IF JOIST HANGERS ARE USED.
- (c) SIMPLE DECK - A DECK WITHOUT JOIST CANTILEVERS AND WITHOUT BEAM CANTILEVERS. THE DECK JOISTS ARE SUPPORTED ON THE PERIMETER BEAM AND LEDGER ONLY.
- (d) COMPLEX DECK - A DECK WITH JOIST CANTILEVER(S) AND/OR BEAM CANTILEVER(S) OR DECK JOISTS ARE SUPPORTED WITH 3-POINT BEARING. CANTILEVER LENGTH IS BASED ON JOIST SPAN + 4 AND BEAM SPAN + 4.

FOOTINGS

ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL AT 18" - 20" BELOW FINISHED GRADE. IF THE FOOTING IS WITHIN 4 FEET OF THE EXISTING HOUSE, IT SHALL BE AT LEAST AS DEEP AS THE HOUSE FOOTING.



FOOTING SIZE (a) (c) (d)			
TRIBUTARY AREA (b) (SQFT)	SQUARE FOOTING SIDE DIMENSION (INCHES)	ROUND FOOTING DIAMETER (INCHES)	THICKNESS (INCHES)
20	12	14	8
30	12	14	8
40	14	16	8
50	16	18	8
60	17	19	8
70	18	20	8
80	20	22	8
100	22	25	8
120	24	27	9
140	26	29	10
160	28	31	11

- (a) ASSUMES 1500 PSF SOIL BEARING CAPACITY
- (b) TRIBUTARY AREA IS DEFINED AS THE AREA INSCRIBED BY ONE-HALF THE LENGTH OF THE SPANS ADJACENT TO ALL FOUR SIDES SURROUNDING THE POST.

$$\text{TRIBUTARY AREA} = [(1/2 \text{ JOIST SPAN } \#1 + \text{ JOIST CANT } \#1) + (1/2 \text{ JOIST SPAN } \#2 + \text{ JOIST CANT } \#2)] \times [(1/2 \text{ BEAM SPAN } \#1 + \text{ BEAM CANT } \#1) + (1/2 \text{ BEAM SPAN } \#2 + \text{ BEAM CANT } \#2)]$$
- (c) THE FOOTING SIZES IN THIS TABLE ASSUME NO ROOF LOAD. IF THE FOOTING SUPPORTS A PORCH ROOF, ADD 4" TO THE DIMENSION IN THIS TABLE.
- (d) INTERPOLATION IS PERMITTED.

DECKING BOARDS

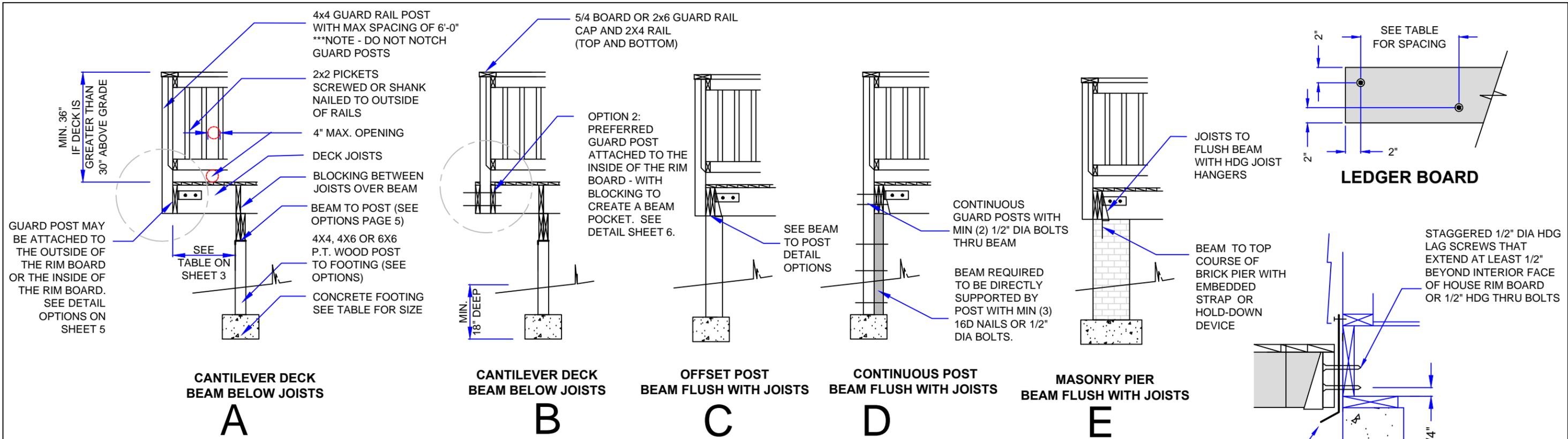
- 1. DECKING BOARDS ARE TYPICALLY 2x6, 5/4 P.T. BOARDS, OR MANUFACTURED OF COMPOSITE MATERIAL.
- 2. ATTACH DECKING BOARDS TO DECK JOISTS WITH 2-8d HDG NAILS, (2) #8 HDG SCREWS, OR PROPRIETARY FASTENERS INTENDED FOR P.T. WOOD.
- 3. DECK BOARDS SHALL BE SPACED APPROXIMATELY 1/8" APART (EDGE TO EDGE).
- 4. DECKING MAY BE APPLIED DIAGONALLY. 2x6 WITH JOISTS AT MAXIMUM 16" O.C. OR 5/4 BOARDS WITH JOISTS AT MAXIMUM 12" O.C..
- 5. EACH PIECE OF DECKING MUST BEAR ON AT LEAST 3 JOISTS.

DECK POSTS

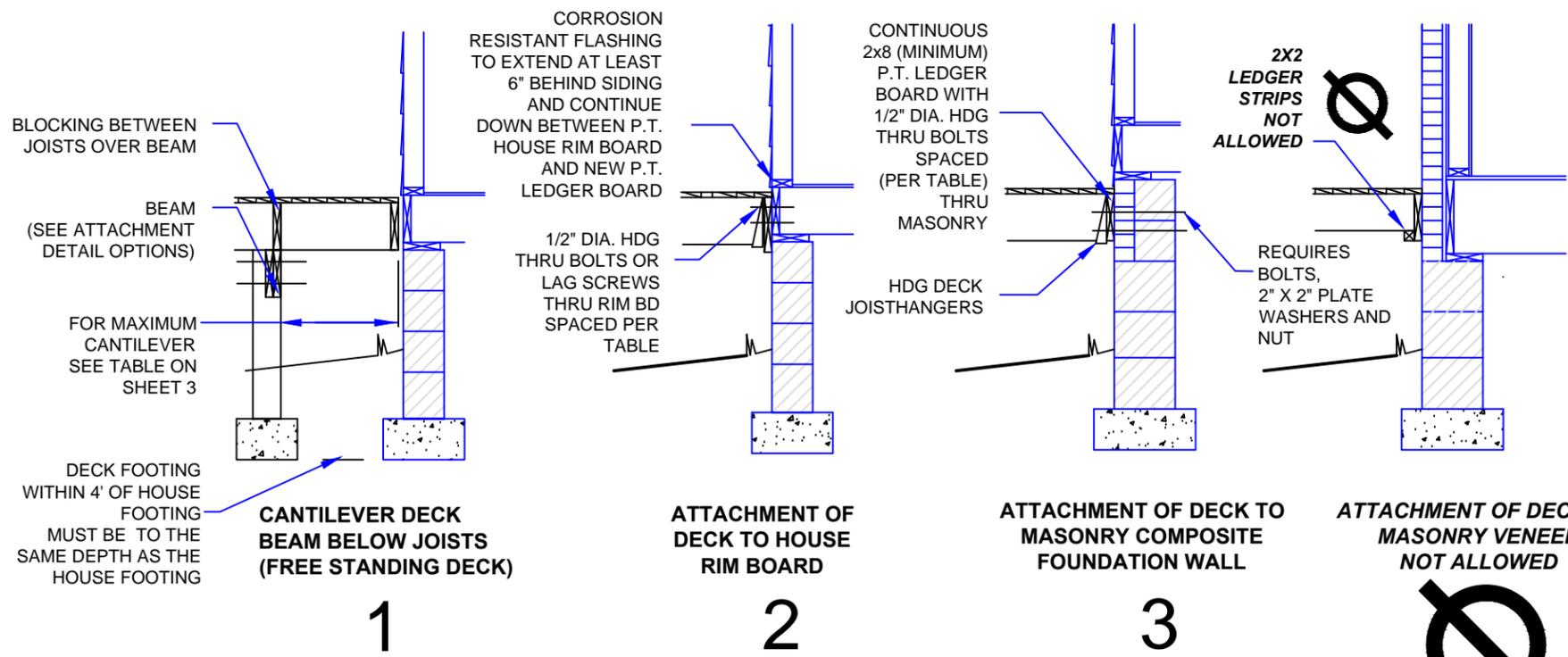
- 1. DECK POSTS MAY BE EITHER P.T. WOOD, OR NATURAL DECAY RESISTANT WOOD OR MASONRY.
- 2. WOOD DECK POSTS SHALL BE PRESERVATIVE TREATED AND CONSTRUCTED WITH HOT DIPPED GALVANIZED FASTENERS, NAILS, BRACKETS, ETC..
- 4. DECK POSTS THAT ARE OVER 8' IN HEIGHT SHOULD BE CROSS BRACED IN BOTH DIRECTIONS.

MAXIMUM DECK POST HEIGHT		
DECK POST SIZE	ATTACHED DECK	FREE STANDING DECK
4 x 4	8' - 0"	5' - 0"
4 x 6	10' - 0"	8' - 0"
6 x 6	14' - 0"	10' - 0"

MEMBER SIZING



END AWAY FROM THE HOUSE - GUARD POST OUTSIDE RIM BOARD NOTE: DO NOT NOTCH THE GUARD POST.



END ADJACENT TO THE HOUSE

NOTE: 2X2 LEDGER STRIPS NOT ALLOWED

(1) PIECE OF CORROSION-RESISTANT MINIMUM 19 GA METAL OR APPROVED NON-METALIC FLASHING BETWEEN HOUSE RIM BOARD AND DECK LEDGER BOARD
NOTE: ALUMINUM FLASHING IS NOT PERMITTED.

LEDGER CONNECTION

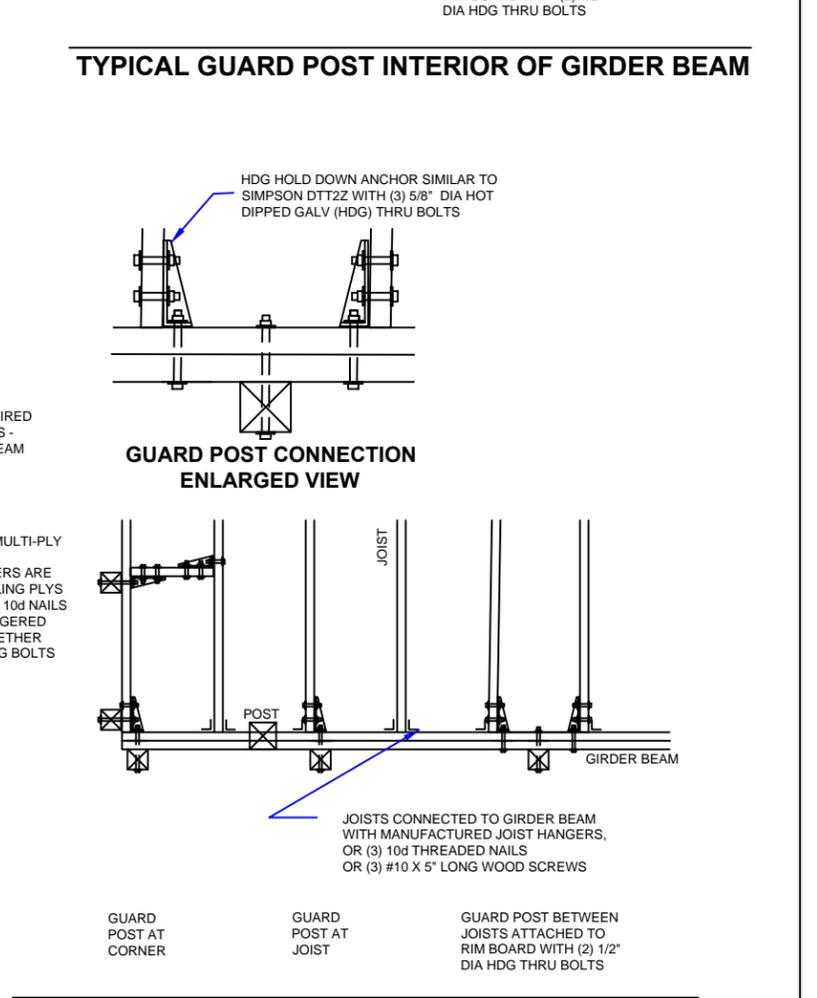
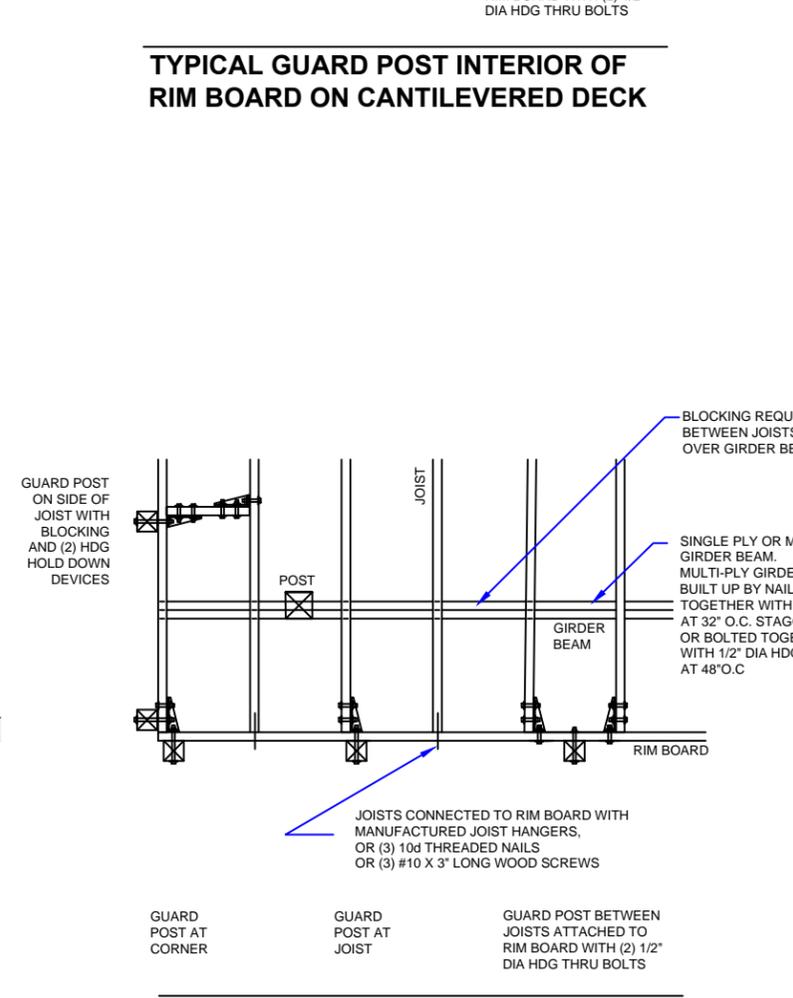
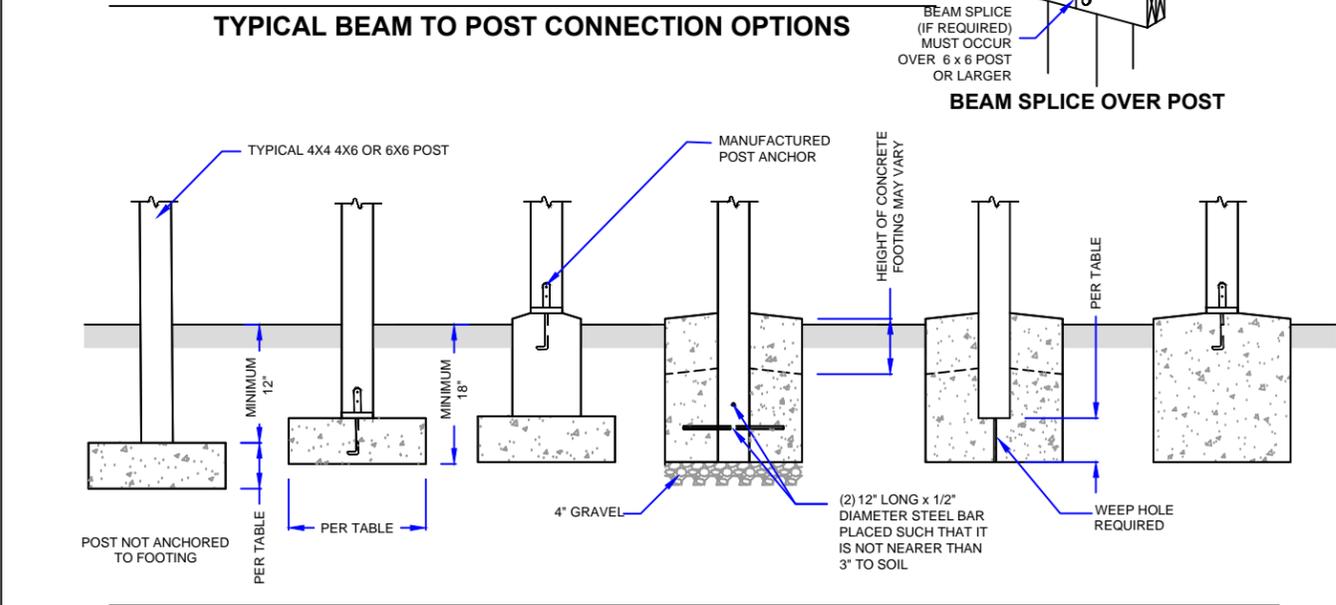
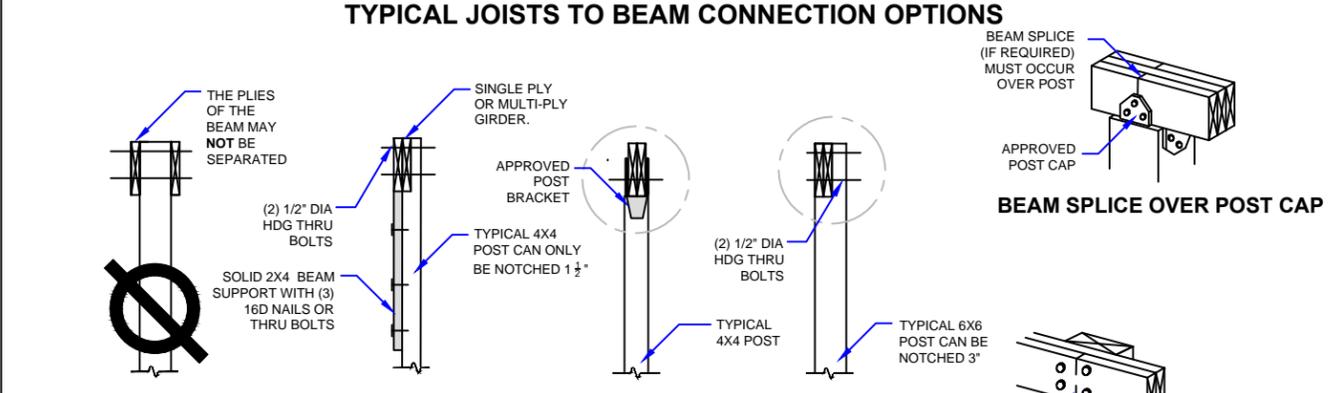
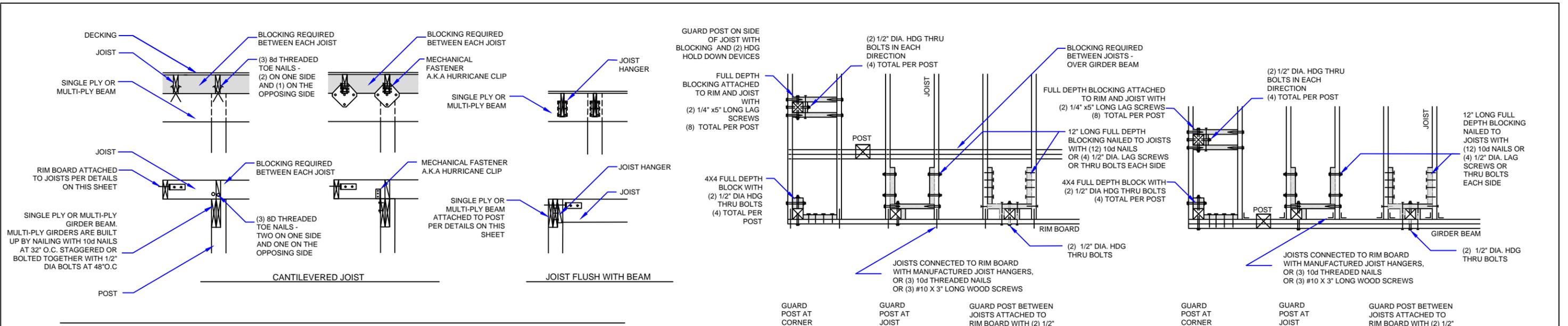
LEDGER BOARD CONNECTION TO HOUSE

ON-CENTER SPACING FOR FASTENERS ATTACHING DECK TO HOUSE							
JOIST SPAN (ft)	6' and less	6'-1" 8'-0"	8'-1" 10'-0"	10'-1" 12'-0"	12'-1" 14'-0"	14'-1" 16'-0"	16'-1" 18'-0"
1/2" x 4" LAG SCREWS	30"	23"	18"	15"	13"	11"	10"
1/2" x 4" BOLTS WITH WASHERS AND NUTS	36"	36"	34"	29"	24"	21"	19"

NOTES:

1. THE MAXIMUM GAP BETWEEN THE FACE OF THE LEDGER BOARD AND FACE OF THE HOUSE BAND JOIST SHALL BE 1/2".
2. THE TIP OF THE LAG SCREW SHALL FULLY EXTEND BEYOND THE INSIDE OF THE BAND JOIST (BOARD).
3. LEDGERS SHALL BE FLASHED TO PREVENT WATER FROM CONTACTING THE HOUSE BAND JOIST (BOARD).
4. LAG SCREWS AND BOLTS SHALL BE STAGGERED AND SHALL NOT BE CLOSER THAN 2" TO THE TOP AND BOTTOM OF THE LEDGER.
5. DECK LEDGERS SHALL BE 2X8 PRESERVATIVE TREATED SOUTHERN PINE (MINIMUM) OR OTHER APPROVED METHOD AND MATERIAL AS ESTABLISHED BY STANDARD ENGINEERING PRACTICE.

CONNECTIONS



CONNECTION DETAILS

STAIRS AND RAMPS

STAIR RISERS:
 1. THE MAXIMUM RISER HEIGHT IS 8-1/4". THE MAXIMUM VARIATION BETWEEN THE TALLEST AND SHORTEST RISER IS 3/8".
 2. OPEN RISERS ARE ALLOWED AS LONG AS THE OPENINGS DO NOT EXCEED 4"

STAIR TREADS
 1. THE MINIMUM TREAD WIDTH IS 9". THE MAXIMUM VARIATION IN TREAD WIDTHS BETWEEN THE WIDEST AND NARROWEST IS 3/8".
 2. THE TREAD NOSING SHALL PROJECT AT LEAST 3/4" AND NOT MORE THAN 1-1/4" BEYOND ANY SOLID RISER.

STRINGERS
 1. ALL STRINGERS SHALL BE A MINIMUM OF 2x12 P.T. MATERIAL.
 2. IF THE STRINGER IS FABRICATED BY CUTTING NOTCHES FOR THE RISERS AND TREADS, THREE STRINGERS SHALL BE PROVIDED FOR A 36" WIDE STAIR. NOTE: DO NOT OVER CUT NOTCHES.
 IF THE STRINGER IS FABRICATED FROM UNCUT 2x12, TWO STRINGERS ARE REQUIRED FOR A 36" WIDE STAIR.
 3. STRINGERS SHALL NOT SPAN MORE THAN THE THE DIMENSIONS SHOWN, OTHERWISE, AN INTERMEDIATE POST IS REQUIRED. THE POST SHALL BE SUPPORTED ON A CONCRETE FOOTING AT LEAST 12" DEEP. THE STRINGER SHALL BE ATTACHED TO THE POST WITH (2) 1/2" DIA HDG THRU BOLTS.

GUARDRAILS (FREQUENTLY REFERRED TO AS "GUARDS")
 1. GUARDRAILS ARE AN ASSEMBLY COMPRISED OF THE FOLLOWING COMPONENTS:
 • A GUARDRAIL CAP, TYPICALLY A 2x6 OR 5/4 BOARD LAID FLAT
 • TOP AND BOTTOM RAILS TO WHICH THE PICKETS ARE ATTACHED,
 • (GUARD) POSTS, AND
 • PICKETS.
 2. GUARDRAILS ARE REQUIRED WHERE THE DISTANCE FROM THE WALKING SURFACE TO GRADE IS MORE THAN 30" MEASURED OUT 36" FROM THE FACE OF THE DECK.
 3. THE TOP OF THE GUARDRAIL CAP MUST BE BETWEEN 34" AND 38" WHERE MEASURED FROM THE NOSING OF THE TREAD.
 4. THE BOTTOM RAIL MUST BE LOCATED SO THAT A 6" SPHERE CANNOT PASS BETWEEN THE TRIANGLE FORMED BY THE RISER, TREAD AND BOTTOM RAIL.
 5. THE GUARDS SHALL BE ABLE TO WITHSTAND A LOADING OF 200# IN ANY DIRECTION.

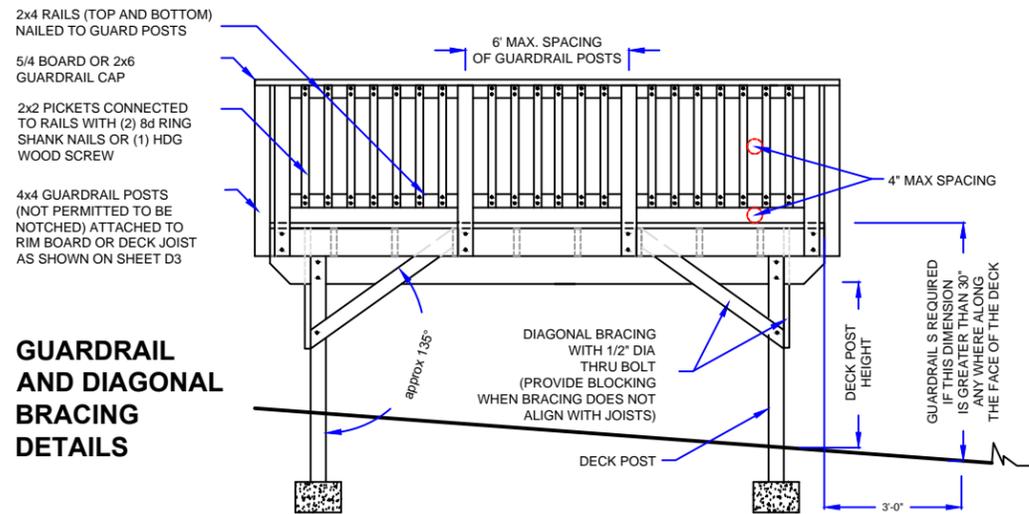
HANDRAILS (NOT TO BE CONFUSED WITH GUARDRAILS)
 1. A HANDRAIL (TYPE 1 OR TYPE 2 PROFILE) IS REQUIRED ON AT LEAST ONE SIDE OF THE STAIR WHEN THERE ARE MORE THAN THREE RISERS.
 2. THE HANDRAIL SHOULD BE MOUNTED BETWEEN 34" AND 38" ABOVE THE NOSING OF THE TREAD.
 3. HANDRAILS HAVE TO "RETURN" TO THE POST OR WALL.

FOOTINGS
 1. THE POST AT THE BOTTOM OF THE STRINGER MUST BE SET ON A CONCRETE FOOTING AT LEAST 18" IN DEPTH.

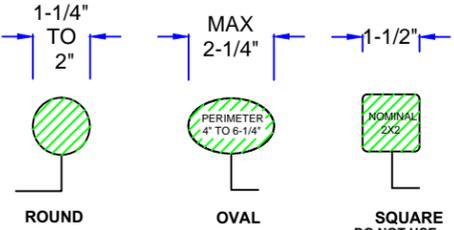
CONNECTIONS
 1. THE BOTTOM OF P.T. STRINGERS SHALL BE ATTACHED TO EACH P.T. POST WITH (2) 1/2" DIA. HDG THRU BOLTS.
 2. THE TOP OF P.T. STRINGERS SHALL BE ATTACHED WITH HDG MECHANICAL FASTENERS AND HDG THRU BOLTS TO EITHER:
 • A P.T. POST EMBEDDED IN THE GROUND ON A FOOTING (PREFERRED),
 • A SAW CUT POST,
 • A RIM BOARD WITH MECHANICAL FASTENERS (BUT END NAILING IS PROHIBITED),
 • OR DECK JOIST.

STAIR LANDINGS
 1. WHEN A STAIRWAY EXCEEDS A VERTICAL HEIGHT OF 12', AN INTERMEDIATE LANDING SHALL BE PROVIDED.
 2. LANDINGS SHALL BE AS WIDE AS THE STAIR WIDTH IT SERVICES (TYPICALLY 36").

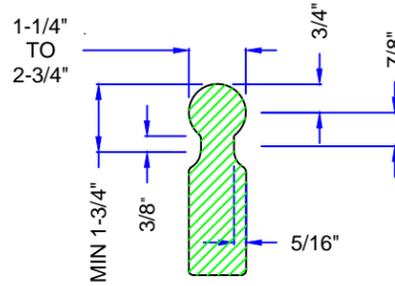
RAMPS
 1. RAMPS MAY BE STRAIGHT RUNS OR "L" OR "U" SHAPED.
 2. RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1:12
 (THAT MEANS FOR EVERY INCH IN HEIGHT THE RAMP HAS TO CLIMB, IT SHALL BE ONE FOOT LONG).
 3. WHERE RAMPS CHANGE DIRECTIONS, A LEVEL LANDING THE WIDTH OF THE RAMP IS REQUIRED.
 4. HANDRAILS ARE REQUIRED ON AT LEAST ONE SIDE OF RAMP, AND MAY BE ATTACHED TO THE HOUSE
 5. GUARDRAILS ARE REQUIRED WHERE THE HEIGHT OF THE RAMP ABOVE GRADE EXCEEDS 30".



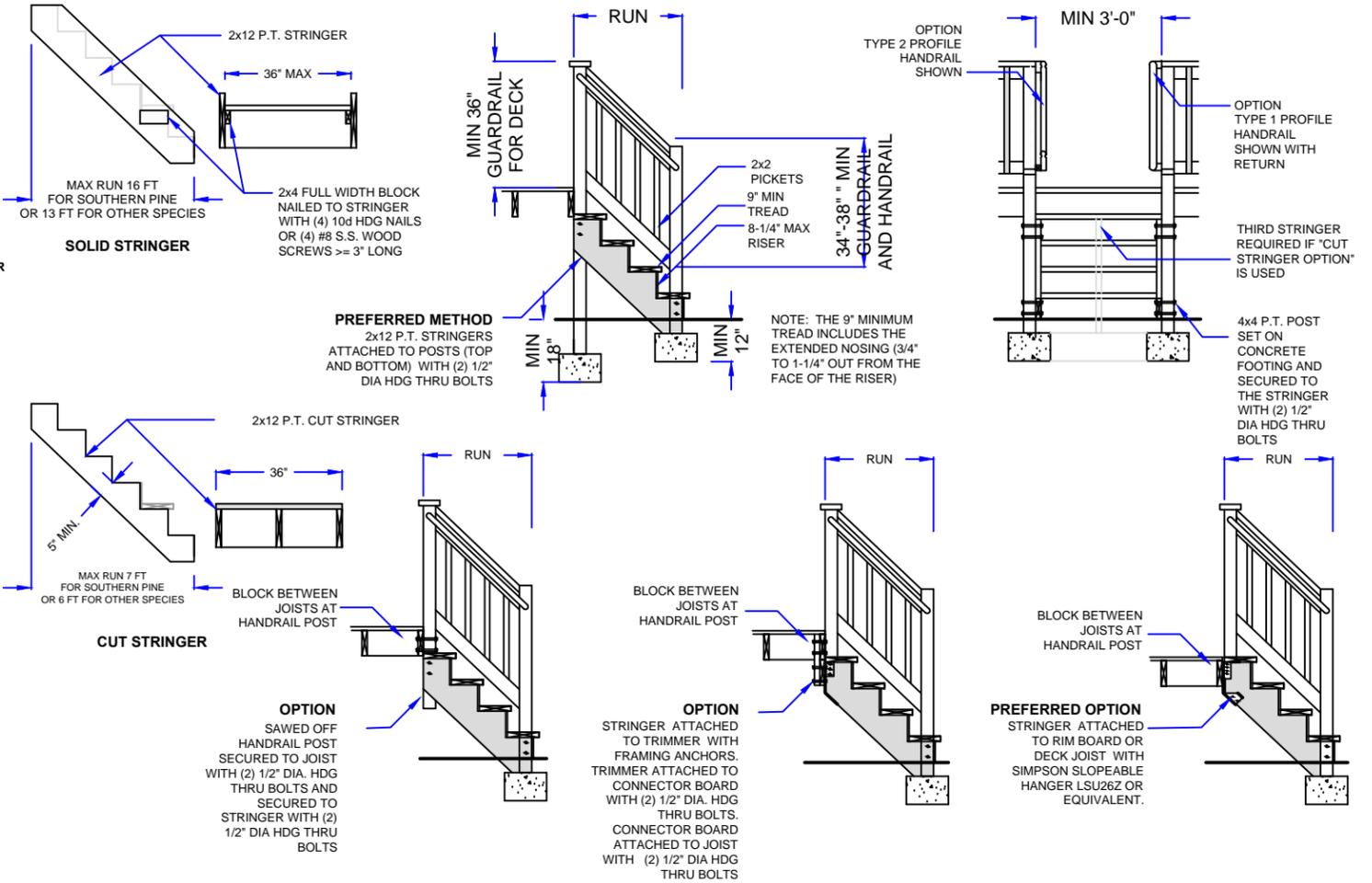
HANDRAIL PROFILES



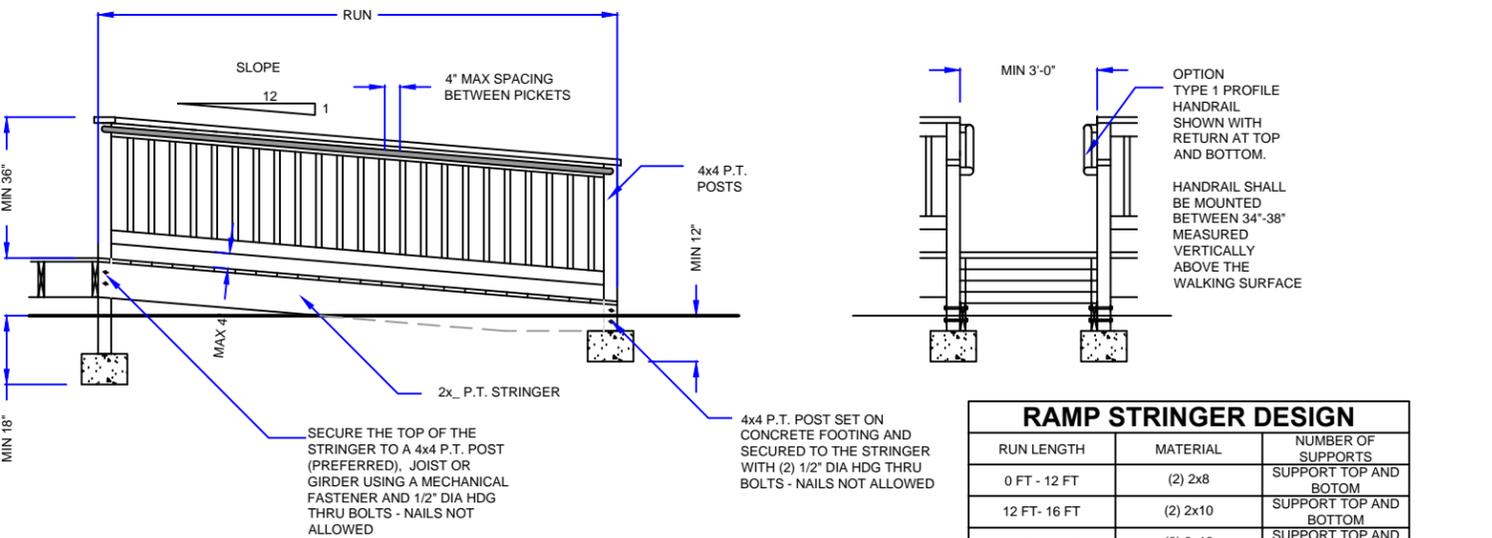
HANDRAILS WITH A CIRCULAR CROSS-SECTION SHALL HAVE AN OUTSIDE DIAMETER OF AT LEAST 1-1/4" AND NOT GREATER THAN 2". IF THE HANDRAIL IS NOT CIRCULAR, IT SHALL HAVE A PERIMETER OF AT LEAST 4" AND NOT GREATER THAN 6-1/4" WITH A MAXIMUM CROSS SECTION OF 2-1/4"



HANDRAILS WITH A PERIMETER GREATER THAN 6-1/4" SHALL PROVIDE A GRASPABLE FINGER RECESS ON BOTH SIDES OF THE PROFILE. THE FINGER RECESS SHALL:
 1. BEGIN WITHIN A DISTANCE OF 3/4" MEASURED VERTICALLY FROM THE TALLEST PORTION OF THE PROFILE AND
 2. ACHIEVE A DEPTH OF AT LEAST 5/16" WITHIN 7/8" BELOW THE WIDEST PORTION OF THE PROFILE. THE REQUIRED DEPTH SHALL CONTINUE FOR AT LEAST 3/8" TO A LEVEL THAT IS NOT LESS THAN 1-3/4" BELOW THE TALLEST PORTION OF THE PROFILE. THE MINIMUM WIDTH OF THE HANDRAIL ABOVE THE RECESS SHALL BE 1-1/4" TO A MAXIMUM OF 2-3/4". EDGES SHALL HAVE A MINIMUM RADIUS OF .01"



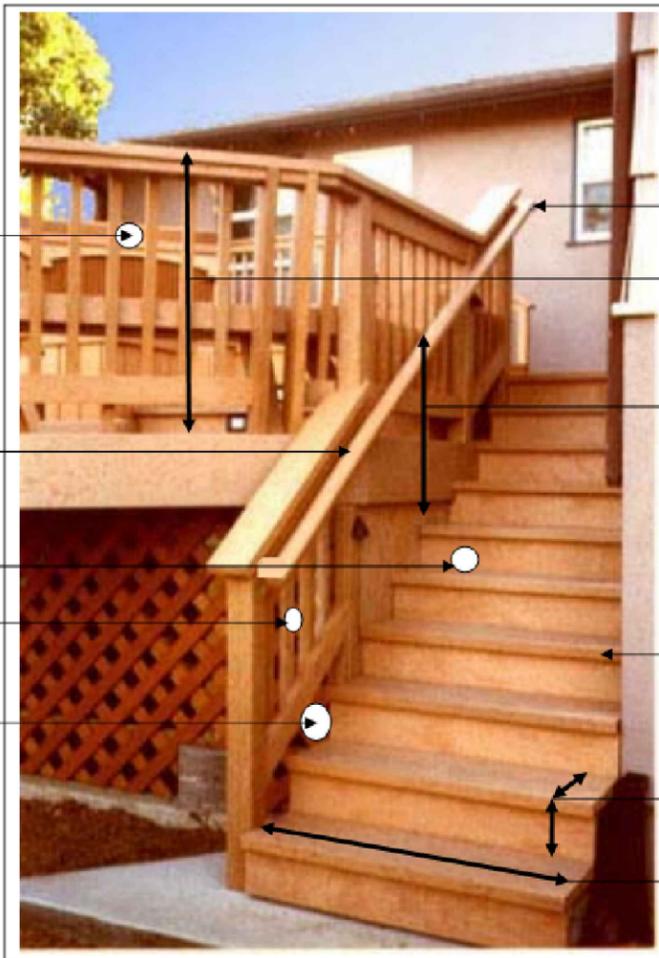
STAIR DETAILS



RAMP DETAILS

DETAILS

DECK and STAIR REQUIREMENTS IN PICTURES



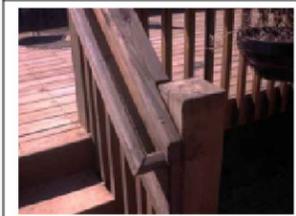
4" sphere shall not pass thru deck pickets

Handrails are required when there are more than 3 risers. A guard rail is required when the height of the walking surface is greater than 30" above grade

If riser is open, the opening shall not permit the passage of a 4" sphere.

4-3/8" sphere shall not pass thru on stair pickets

6" sphere shall not pass thru



Handrail returns to the post

Guardrail height minimum 36" above walking surface

Handrail height between 34-38" measured vertically from the nosing of the tread

Treads to have a nosing between 3/4" and 1-1/4" beyond the riser

Maximum 8-1/4" risers, and minimum 9" treads (including the nosing)

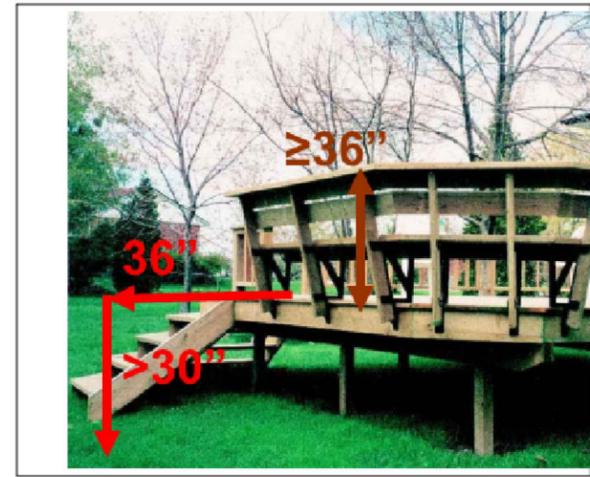
Minimum 36" wide stairs

If the porch walking surface is less than 30" to grade (measured at 36" out from the edge of the porch) then the guardrails would not be required...and if put on as an option, they can be of any height.



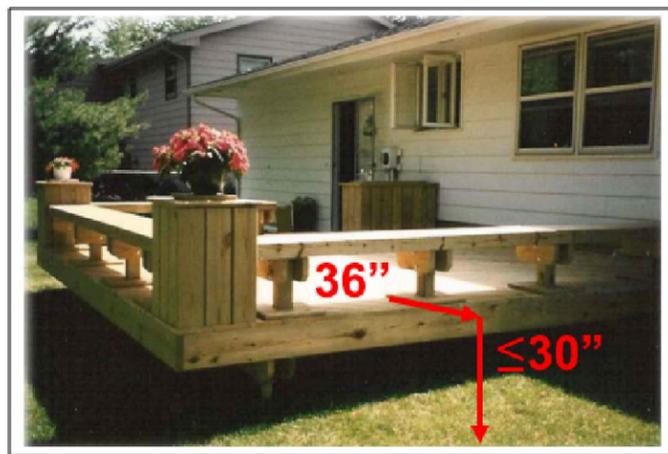
Handrails are not required because there are less than 3 risers on the stairs.

This porch has built-in seating. If the porch walking surface is more than 30" to grade (measured at 36" out from the edge of the deck) then the guardrails must be at least 36" above the height of the seat.



Handrails are required because there are more than 3 risers on the stairs.

This porch has built-in seating. If the porch walking surface is less than 30" measured out 36" then guardrails are not required at all.



POWHATAN COUNTY REQUIRED BUILDING & PLANNING INSPECTIONS

BUILDING & PLANNING DEPARTMENT PERMIT / INSPECTION TYPE	PRE-CONSTRUCTION	INITIAL EROSION <i>SEE NOTE 1</i>	FOOTING	FOUNDATION <i>SEE NOTE 1, 2 & 5</i>	BASEMENT WATERPROOFING AND DRAINAGE	PRE-SLAB	TEMPORARY POWER	FIREPLACE THROAT	FRAMING / STRUCTURAL <i>SEE NOTE 1 & 2</i>	ROUGH ELECTRICAL	ROUGH PLUMBING	ROUGH MECHANICAL	VENEER	INSULATION	SERVICE CONNECT	FINAL ELECTRIC	FINAL PLUMBING	FINAL MECHANICAL	FINAL EROSION	FINAL BUILD <i>SEE NOTE 3 & 4</i>	
Residential - New Construction		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Residential - Secondary Dwelling		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Residential - Addition			X	X	X	X		X	X	X	X	X	X	X		X	X	X			X
Residential - Alteration									X	X	X	X	X	X		X	X	X			X
Residential - Demolition	X																				
Residential - Manufactured Housing			X	X	X	X	X				X	X			X	X	X	X			X
Residential - Gas											X										X
Residential - Swimming Pool			X							X B						X					X
Commercial - New Construction			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Commercial - Addition			X	X	X	X			X	X	X	X	X	X		X	X	X			X
Commercial - Alteration									X	X	X	X	X	X		X	X	X			X
Commercial - Demolition	X																				X
Commercial - Gas											X						X				X
Commercial - Swimming Pool			X							X	X				X	X	X				X
Industrialized Building			X	X	X		X							X	X	X					X
Special Inspections (as required) -																					
Shrink/swell Soil Analysis	X																	X			
Soil Bearing Capacity	X																				
Concrete Strength									X												
Weld Analysis									X												
Fastener Tensioning									X												
Air Balance																					X
Elevator			X	X		X			X	X		X				X		X			C
Amusement Devices																					X

Symbol Legend

- X = Required Inspection (Dependant on Scope of the Work)**
- X B = Required Inspection, including bonding**
- C = Required Inspection by an approved Certified Elevator Inspector**

***PLEASE NOTE:* County stamped "Approved" plans shall be available on the job site for the inspector's use during all inspections.**

- 1. INITIAL EROSION IS TO BE COMPLETED BEFORE FRAMING INSPECTION CAN BE PERFORMED.**
- 2. MUST SUBMIT SETBACK CERTIFICATION (IF REQUIRED) BEFORE FRAMING INSPECTION CAN BE PERFORMED.**
- 3. NO FINAL INSPECTIONS PERFORMED FOR ACCESSORY STRUCTURES (SHEDS, DETACHED GARAGES, CARPORTS, BARN, ETC.) PRIOR TO FINAL INSPECTION ON MAIN DWELLING.**
- 4. ENSURE EXTERIOR LIGHTING IS DARK SKY COMPLIANT.**
- 5. PROJECTION REQUIRED FOR ALL BLOCK WALL BASEMENTS OR BASEMENT WALL SYSTEMS WITH FOOTINGS .**