



DRAWING SCHEDULE

DECK PLAN	
COVER SHEET__	A1
ELEVATIONS__	A2
DECK PLAN__	A3
DETAILS__	A4
DETAILS 1__	A5

DECK PROJECT:

973 BROWNELL AVE

SAINT LOUIS, MISSOURI 63122

SCOPE OF WORK

REMOVE AND REPLACE EXISTING DECK ON REAR OF RESIDENCE.

APPLICABLE CODES:

- 2021 IBC (INTERNATIONAL BUILDING CODE)
- 2021 IRC (INTERNATIONAL RESIDENTIAL CODE)
- 2021 IMC (INTERNATIONAL MECHANICAL CODE)
- 2021 IPC (INTERNATIONAL PLUMBING CODE)
- 2020 NEC (NATIONAL ELECTRICAL CODE)



SITE CONDITIONS



RENDERING

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PLANS PREPARED BY NON
LICENSED PROFESSIONAL

PROJECT NUMBER: STLDB-26-025

PLAN REVISION		
NO.	INFORMATION	DATE
1	ORIGINAL ISSUE	6/17/2026

PRELIM. REVIEW SET: 6/17/2026

DRAWN BY:	CHECKED BY:
DAVE WILLIAMS	

SHEET:

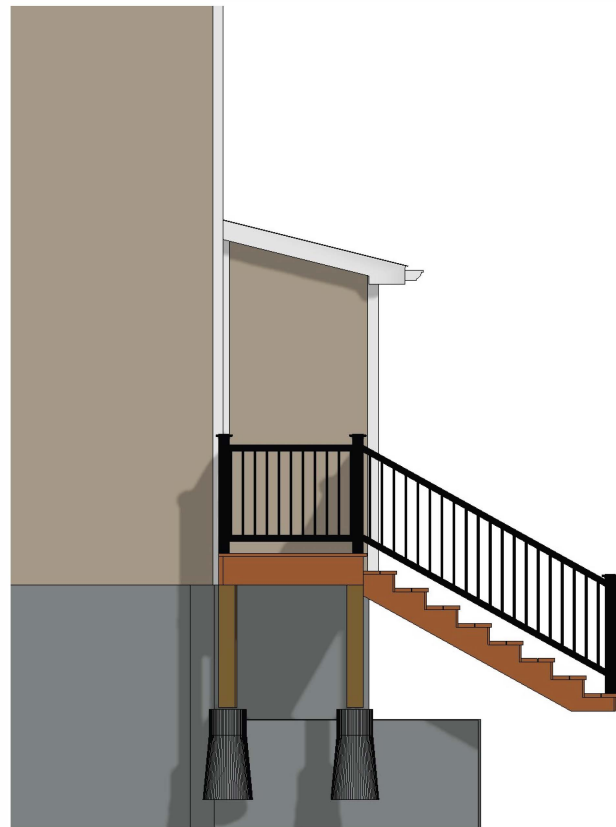
COVER SHEET

A1 / A5

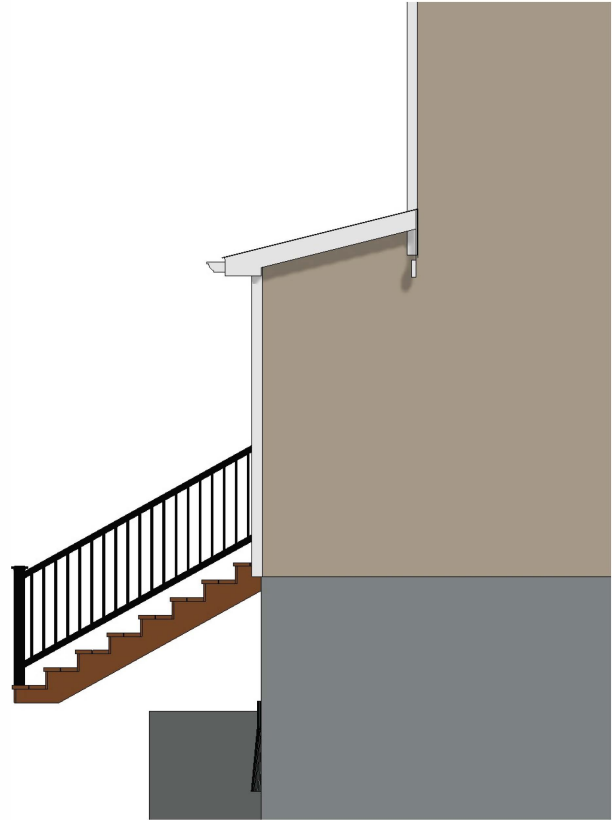
Top of Guard
3'-0"
Top of Deck
4'-9"±
GRADE



REAR ELEVATION
SCALE: 3/16" = 1'-0"



LEFT ELEVATION
SCALE: 3/16" = 1'-0"



RIGHT ELEVATION
SCALE: 3/16" = 1'-0"

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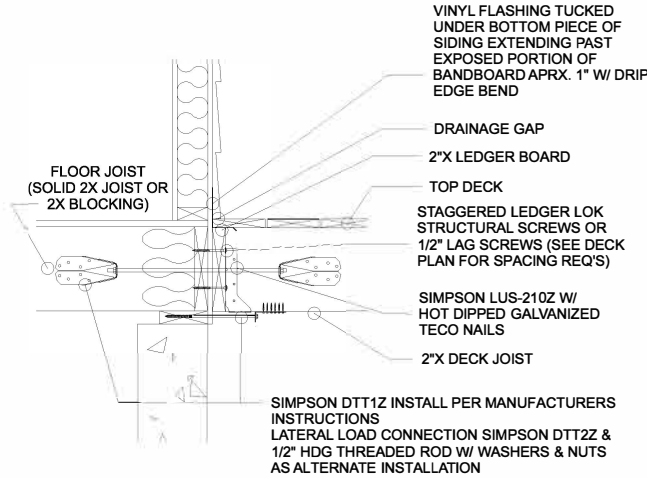
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ELEVATIONS

A2 / A5



FLASHING DETAIL
SCALE: NOT TO SCALE

LATERAL BRACING:
ALL DECKS MUST BE Laterally Braced

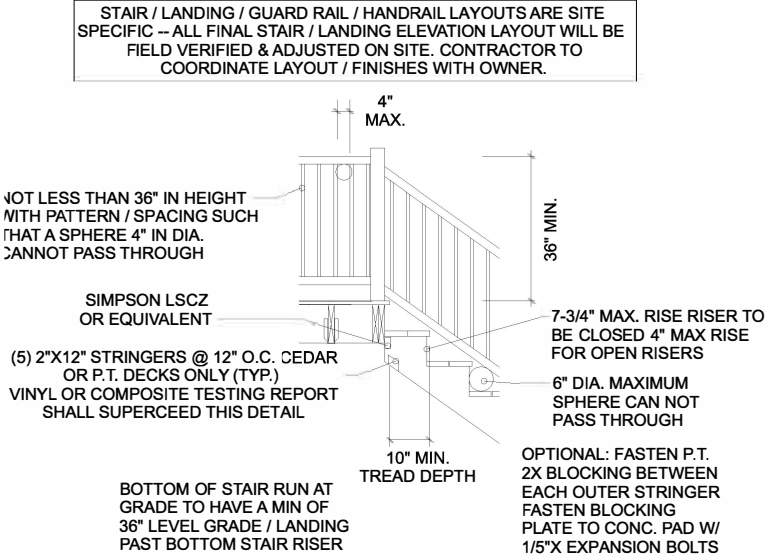
SIMPSON DTT1Z
2018 IRC PROVISION FOR A 750 LB. LATERAL LOAD CONNECTION TO THE HOUSE AT FOUR LOCATIONS PER DECK 1 @ EACH END OF DECK & @ 10' O.C. MAX

SIMPSON DTT2Z
(2) LATERAL BRACE POINTS (ADDITIONAL BLOCKING NECESSARY FOR I-TRUSS FLOOR JOISTS)
5' LGTH. OF 2"x10" ON EACH SIDE OF JOIST WEBBING FOR REINFORCEMENT W/ TOP & BOTTOM ROW OF NAILS @ APPROX. 6" O.C.

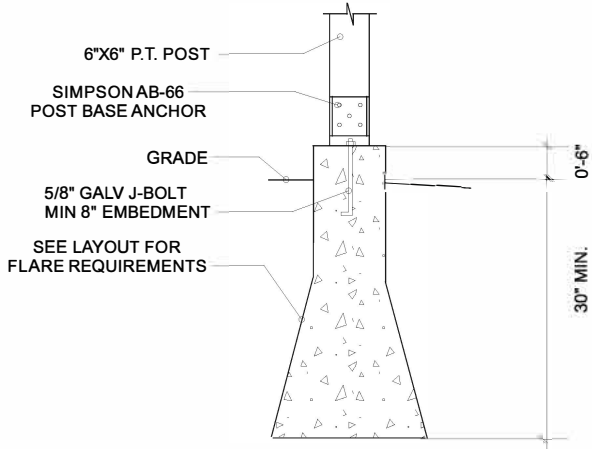
RACK BRACING (IF REQUIRED):
(METHOD A)
DIAGONAL BRACING UNDERNEATH DECK FROM ONE CORNER OF THE TO THE OTHER

(METHOD B)
INSTALL DECKING @ 45°

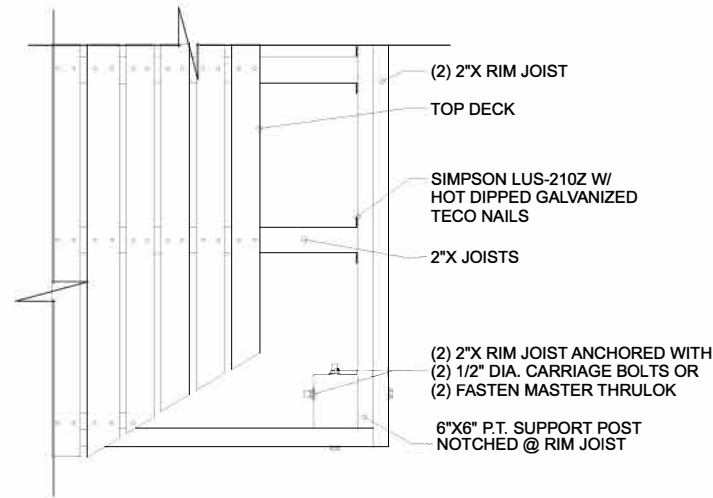
(METHOD C)
INSTALL X OR K BRACING @ EACH SUPPORT POST



STAIR DETAIL
SCALE: 1/4" = 1'-0"

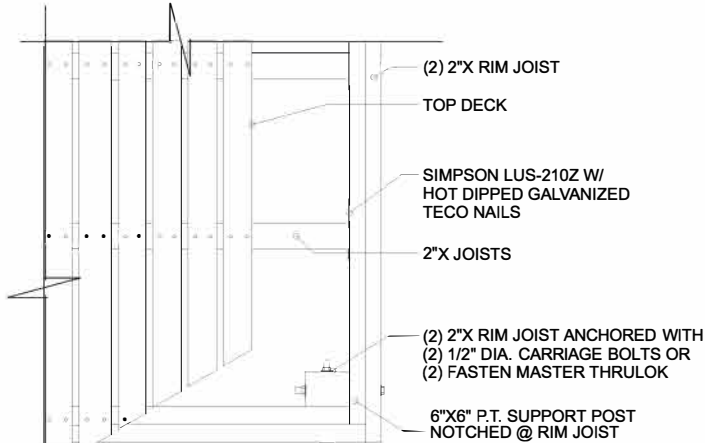


PIER DETAIL
SCALE: 1/4" = 1'-0"



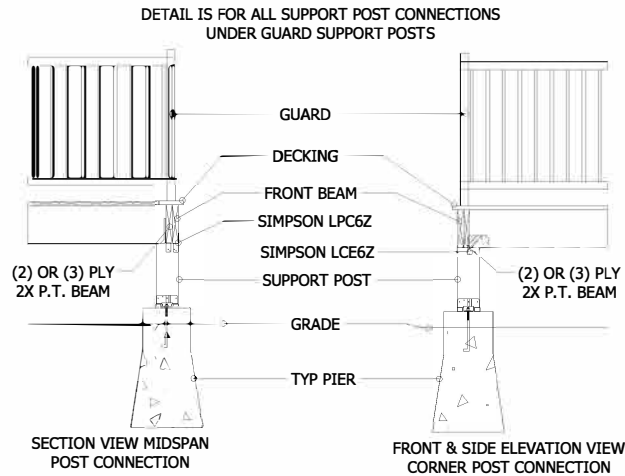
ADJUST PLACEMENT OF 6X6 P.T. FOR PROPER GUARD SUPPORT
INSTALLATION DECK SUPPORT POST TYPNOTCHED TO CRADLE RIM JOIST

DECK SUPPORT DETAIL 1.0
SCALE: 1/4" = 1'-0"



ADJUST PLACEMENT OF 6X6 P.T. FOR PROPER GUARD SUPPORT
INSTALLATION DECK SUPPORT POST TYPNOTCHED TO CRADLE RIM JOIST

DECK SUPPORT DETAIL 1.1
SCALE: 1/4" = 1'-0"



DECK SUPPORT DETAIL 1.2
SCALE: 1/4" = 1'-0"

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DETAILS

A4 / A5

FOR 3 MEMBERS, FASTEN FROM BOTH SIDES OF OUTSIDE MEMBERS TO THE INSIDE MEMBER

ANY SPLICED MEMBER SHAL BE NAILED EACH SIDE OF SPLICE & SHALL BE OVER SUPPORT POST

FASTENER SPACING O.C.

20D COMMON NAILS EACH LAYER @ 32" O.C. STAGGARED TOP & BOTTOM

2-20D COMMON NAILS (FACE NAIL) AT ENDS & AT EACH SPLICE

10D BOX NAILS FACE NAILED @ 24" O.C. STAGGERED TOP & BOTTOM ON OPPOSITE SIDES

3-10D BOX NAILS (FACE NAIL) AT ENDS & AT EACH SPLICE

BEAM SPLIT DETAIL

SCALE: 1/2" = 1'-0"

TABLE R507.9.1.3(1)
DECK LEDGER CONNECTION TO BAND JOIST^{a,b}
(Deck live load = 40 psf, deck dead load = 10 psf, snow load ≤ 40 psf)

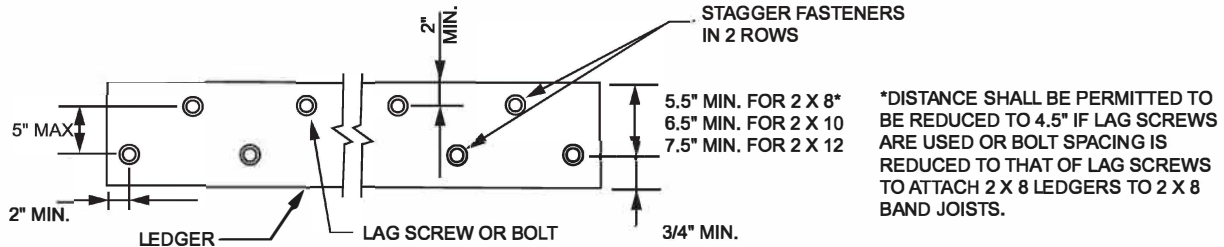
CONNECTION DETAILS	JOIST SPAN						
	6' and less	6'1" to 8'	8'1" to 10'	10'1" to 12'	12'1" to 14'	14'1" to 16'	16'1" to 18'
	On-center spacing of fasteners						
1/2-inch diameter lag screw with 1/2-inch maximum sheathing ^{c,d}	30	23	18	15	13	11	10
1/2-inch diameter bolt with 1/2-inch maximum sheathing ^d	36	36	34	29	24	21	19
1/2-inch diameter bolt with 1-inch maximum sheathing ^c	36	36	29	24	21	18	16

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 pound per square foot = 0.0479 kPa.
a. Ledgers shall be flashed in accordance with Section R703.4 to prevent water from contacting the house band joist.
b. Snow load shall not be assumed to act concurrently with live load.
c. The tip of the lag screw shall fully extend beyond the inside face of the band joist.
d. Sheathing shall be wood structural panel or solid sawn lumber.
e. Sheathing shall be permitted to be wood structural panel, gypsum board, fiberboard, lumber or foam sheathing. Up to 1/2-inch thickness of stacked washers shall be permitted to substitute for up to 1/2 inch of allowable sheathing thiclness where combined with wood structural panel or lumber sheathing.

TABLE R507.9.1.3(2)
PLACEMENT OF LAG SCREWS AND BOLTS IN DECK LEDGERS AND BAND JOISTS

MINIMUM END AND EDGE DISTANCES AND SPACING BETWEEN ROWS				
	TOP EDGE	BOTTOM EDGE	ENDS	ROW SPACING
Ledger ^a	2 inches ^d	3/4 inch	2 inches ^b	1 ³ / ₈ inches ^b
Band Joist ^c	3/4 inch	2 inches	2 inches ^b	1 ³ / ₈ inches ^b

For SI: 1 inch = 25.4 mm.
a. Lag screws or bolts shall be staggered from the top to the bottom along the horizontal run of the deck ledger in accordance with Figure R507.9.1.3(1).
b. Maximum 5 inches.
c. For enginøered rim joists, the manufacturer's recommendations shall govern.
d. The minimum distance from bottom row of lag screws or bolts to the top edge of the ledger shall be in accordance with Figure R507.9.1.3(1).



For SI: 1 inch = 25.4 mm.

FIGURE R507.9.1.3(1)
PLACEMENT OF LAG SCREWS AND BOLTS IN LEDGERS

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DETAILS 1

A5 / A5