

**CITY OF SAINT LOUIS
DEPARTMENT OF PUBLIC SAFETY
BUILDING DIVISION
GUIDELINES FOR
DRAWING RESIDENTIAL SUN-DECK PLANS**

The following form was prepared by the Building Division to be used only as a general guideline for the drawing of construction plans which are required to be submitted at the time of application for a building permit.

To make application for a building permit, the applicant shall submit five (5) sets of detailed construction plans drawn to scale on minimum 8 1/2" x 11" sheets of each of the following to the Building Division - Permit Section, Room 425, City Hall, between 8:00 a.m. and 4:30 p.m. Monday through Friday. The office is closed on all City holidays. One (1) set of photographs is required when: 1) located in a Historic District; 2) located within 300 feet of a park; 3) located within 300 feet of a Historic District or a landmark.

1. Site Plan
2. Foundation Plan/Pier Plan
3. Floor Plan/Framing Plan
4. Elevations
5. Typical Deck Section
6. Additional Details (if necessary)

The following are lists of the items that should be shown on each of the above plans: The illustrations are guides for plan preparation only to give you a basic idea what each type of plan should look like and are not necessarily specific Code and other Ordinance requirements. Each individual site location, the location of the building on the site and/or size of building might vary as requirements of the St. Louis Zoning Ordinance, the Building Code, and other ordinances dictate, and each will have to be reviewed on its own specific conditions after submittal.

1.0 SITE PLAN

- 1.1 Indicate size and shape of your lot
- 1.2 Indicate address and street (or streets if a corner lot)
- 1.3 Indicate alley location
- 1.4 Indicate size and location of existing house and other buildings
- 1.5 Indicate size and location of proposed sun-deck
- 1.6 Indicate distance between the proposed sun-deck and each of the property lines

2.0 FOUNDATION PLAN/PIER PLAN

- 2.1 Indicate length and width of the proposed sun-deck foundation or pier layout
- 2.2 Indicate size of footing
- 2.3 Indicate size of foundation wall
- 2.4 Indicate size and spacing of piers
- 2.5 Indicate size, spacing and direction of span of deck framing system
- 2.6 Indicate how deck framing system will be attached to the existing house

3.0 SUN-DECK PLAN/FRAMING PLAN

- 3.1 Indicate length and width of proposed sun-deck
- 3.2 Indicate distance from deck to each side of house
- 3.3 Indicate size and spacing of columns
- 3.4 Indicate size of beam and beam to column connection
- 3.5 Indicate size, spacing and direction of span of deck framing system
- 3.6 Indicate how deck framing system will be attached to the existing house
- 3.7 Indicate width and location of steps
- 3.8 Indicate handrails and guardrails
- 3.9 Indicate any new openings which are being created for access to deck. Indicate header and/or lintel size above opening and show elevation

4.0 ELEVATIONS

- 4.1 Indicate finish grade line and show depth of foundation and footings or piers below finish grade
- 4.2 Indicate width and height of deck
- 4.3 Indicate size and location of all columns
- 4.4 Indicate size of beam and beam to column connection. Indicate number of bolts, bolt type, diameter and length. Indicate if column is notched to receive beam on 6 x 6 or larger columns
- 4.5 Indicate number and size of risers and treads on steps
- 4.6 Indicate handrails and guardrails

5.0 TYPICAL SUN-DECK SECTION

- 5.1 Indicate size and depth of footing and/or piers below finish grade line
- 5.2 Indicate size of foundation wall and/or piers and height above finish grade line
- 5.3 Indicate size and spacing of deck framing system
- 5.4 Indicate how deck framing system will be attached to the existing house
- 5.5 Indicate type and size of column anchors to foundation wall or piers
- 5.6 Indicate size and spacing of columns

- 5.7 Indicate size of beam and beam to column connection. Indicate number of bolts, bolt type, diameter and length. Indicate if column is notched to receive beam on 6 x 6 or larger columns
- 5.8 Indicate number and size of risers and treads in stair
- 5.9 Indicate type and height of handrail and guardrail
- 5.10 Indicate height from finish grade to deck floor

6.0 ADDITIONAL DETAILS

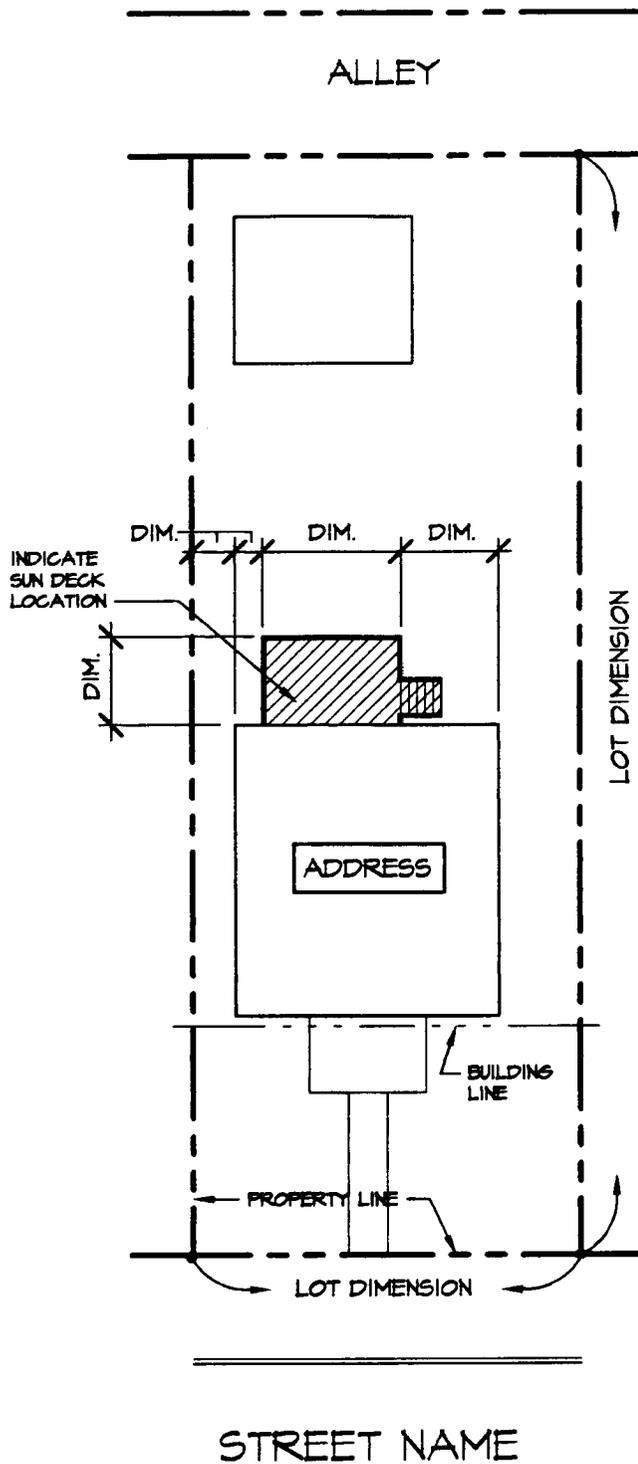
- 6.1 Indicate whatever information is necessary to show how your proposal will be constructed.

For additional information, contact: Permit Section (314) 622-3313.

7.0 GENERAL SUN-DECK NOTES

- 7.1 For specific side yard requirements for a sun-deck, contact the Zoning Section, Room 400, City Hall, (314) 622-3666. A general rule of thumb is a minimum of four (4) feet from any sides property line and a total of ten (10) feet on both sides for sun-decks.
- 7.2 If finished deck floor is fifteen and one-half (15 1/2) inches above finish grade, a guard rail is required
- 7.3 All sun-deck framing members, decking and railing must be of approved naturally-durable or pressure treated wood

Effective Date
January 1, 2001



SITE PLAN

DENOTE SCALE

SDSITE

NORTH



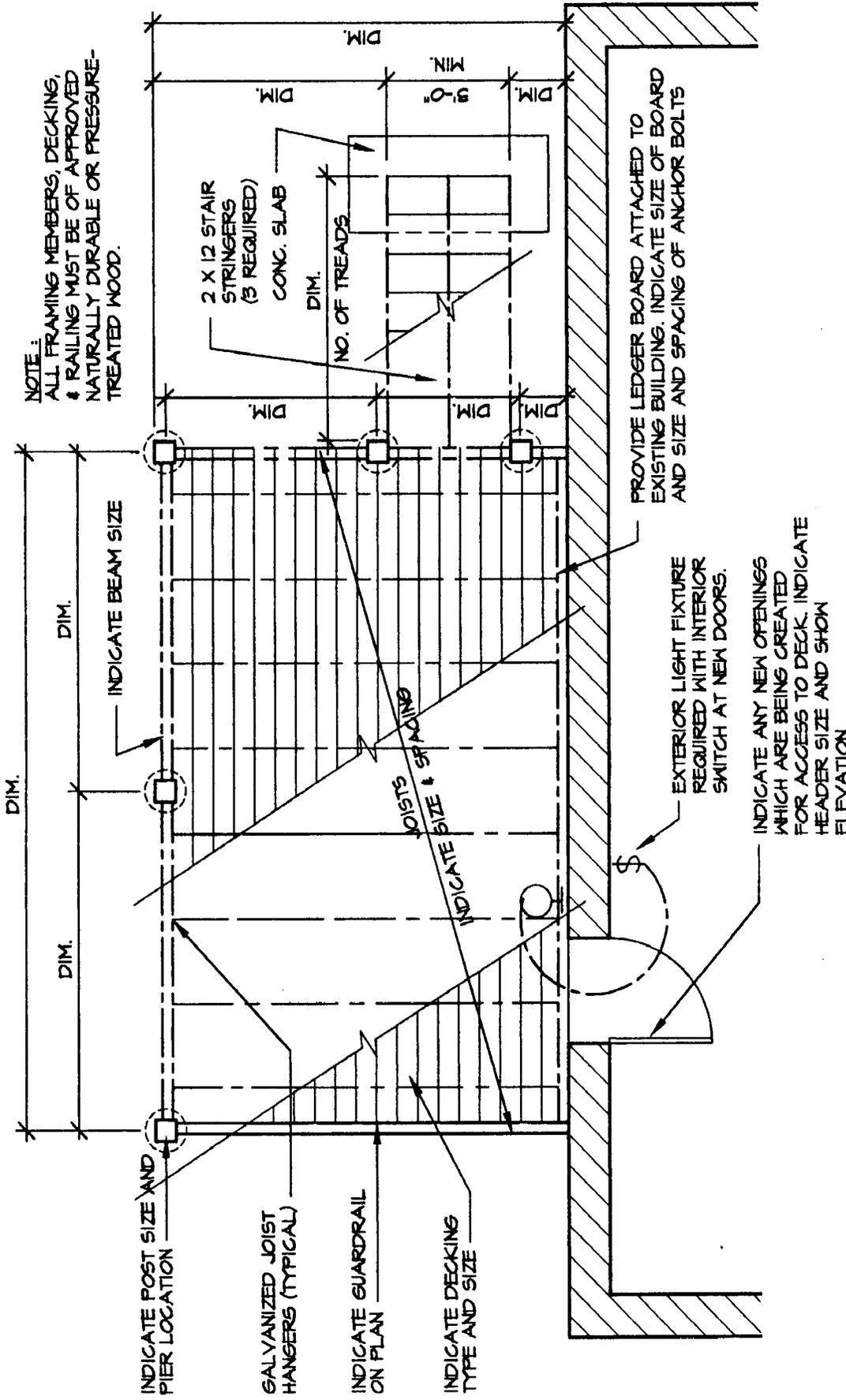
(INDICATE ORIENTATION)

City of Saint Louis - Building Division
RESIDENTIAL SUN DECK
 Guidelines and Standard Construction Details

Date: Jan., 2001

Drawing No.

1 of 9



NORTH ?



(INDICATE ORIENTATION)

1/4" = 1'-0"

PLAN

SDPLN

City of Saint Louis Department of Public Safety RESIDENTIAL SUN DECK Standard Construction Details and Specifications	Date: Jan., 2001
	Drawing No. 2 of 9

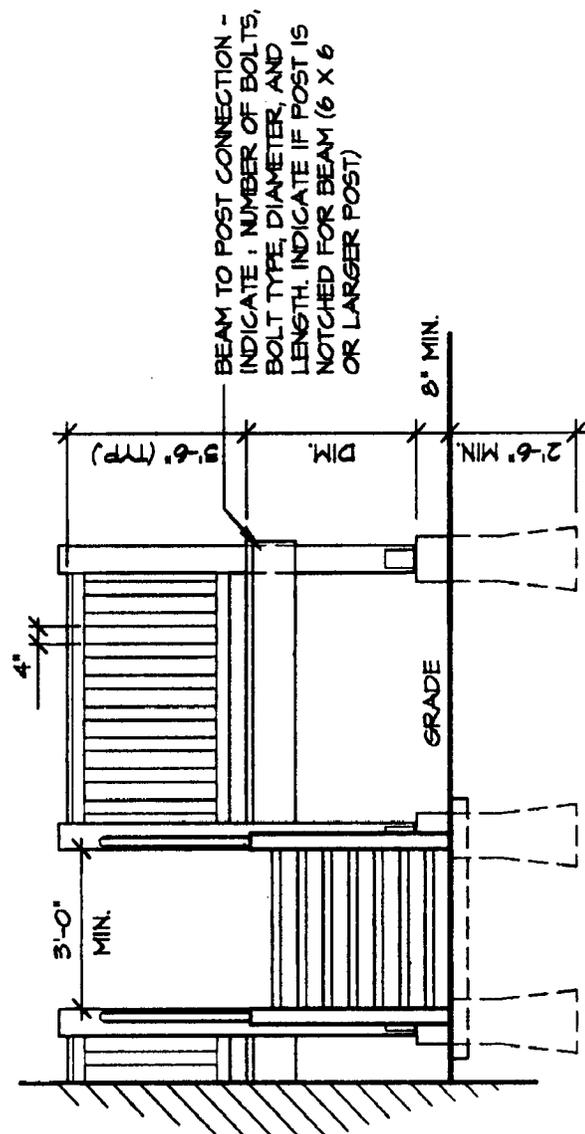
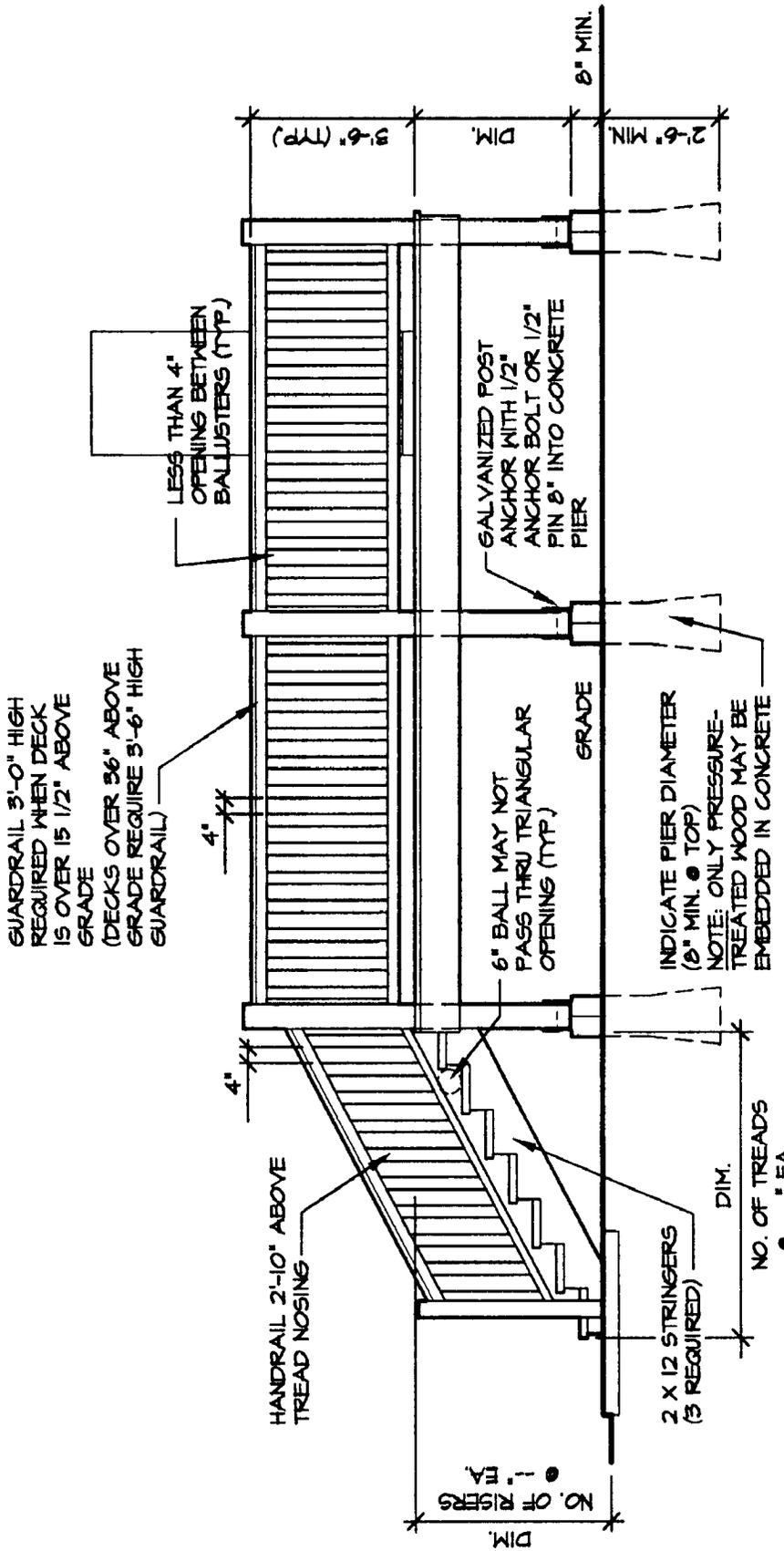
City of Saint Louis - Building Division
RESIDENTIAL SUN DECK
 Guidelines and Standard Construction Details

Date: Jan., 2001

Drawing No.

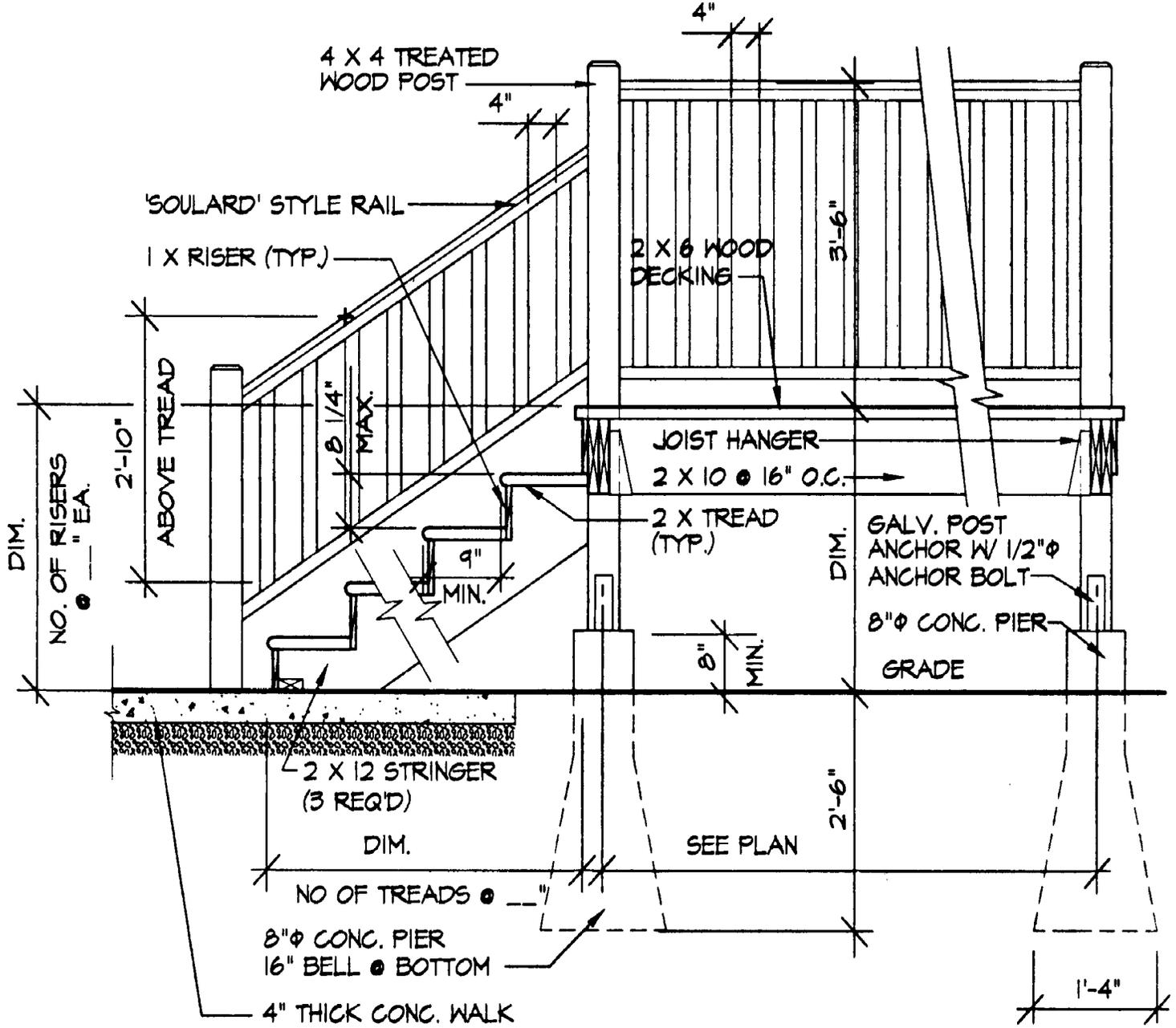
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Rev.: July, 2001



SUN DECK ELEVATIONS

1/4" = 1'-0"



SAMPLE SECTION

1/2" = 1'-0"

DKSEC1

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RESIDENTIAL SUN DECK
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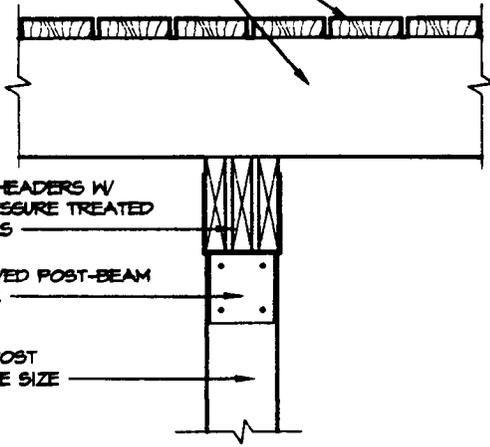
SD-PC4

WOOD DECKING -
INDICATE SIZE
2 X JOISTS @ ' O.C.

(3) 2 X HEADERS W/
1/2" PRESSURE TREATED
SPACERS

APPROVED POST-BEAM
ANCHOR

WOOD POST -
INDICATE SIZE

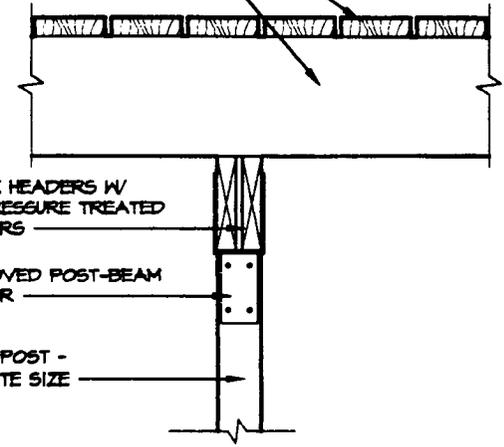


WOOD DECKING -
INDICATE SIZE
2 X JOISTS @ ' O.C.

(2) 2 X HEADERS W/
1/2" PRESSURE TREATED
SPACERS

APPROVED POST-BEAM
ANCHOR

WOOD POST -
INDICATE SIZE



1

**CENTER POST-BEAM
CONNECTION**
SCALE : 3/4"=1'-0"

SDCB1

2

**CENTER POST-BEAM
CONNECTION**
SCALE : 3/4"=1'-0"

SDCB2

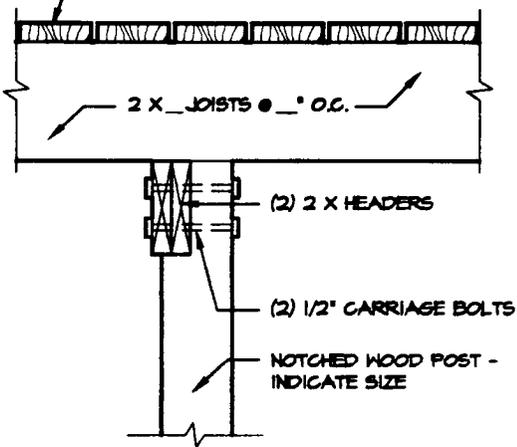
WOOD DECKING -
INDICATE SIZE

2 X JOISTS @ ' O.C.

(2) 2 X HEADERS

(2) 1/2" CARRIAGE BOLTS

NOTCHED WOOD POST -
INDICATE SIZE



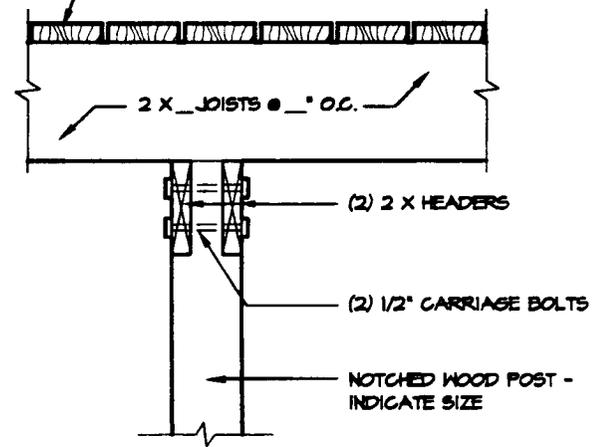
WOOD DECKING -
INDICATE SIZE

2 X JOISTS @ ' O.C.

(2) 2 X HEADERS

(2) 1/2" CARRIAGE BOLTS

NOTCHED WOOD POST -
INDICATE SIZE



3

**CENTER POST-BEAM
CONNECTION**
SCALE : 3/4"=1'-0"

SDCB3

4

**CENTER POST-BEAM
CONNECTION**
SCALE : 3/4"=1'-0"

SDCB5

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RESIDENTIAL SUN DECK
Guidelines and Standard Construction Details

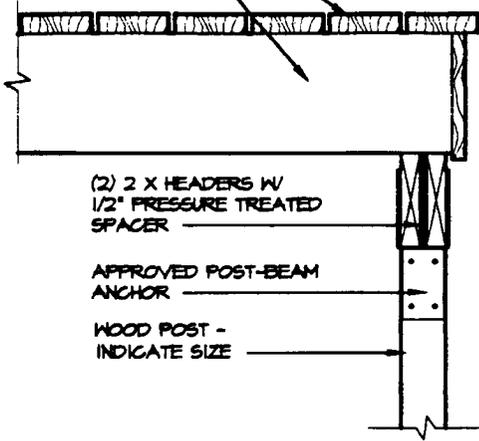
Date: Jan., 2001

Drawing No.

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WOOD DECKING -
INDICATE SIZE

2 X JOISTS @ ___" O.C.



(2) 2 X HEADERS W/
1/2" PRESSURE TREATED
SPACER

APPROVED POST-BEAM
ANCHOR

WOOD POST -
INDICATE SIZE

6 X 6 NOTCHED WOOD COLUMN
EXTENDED FOR GUARDRAILS

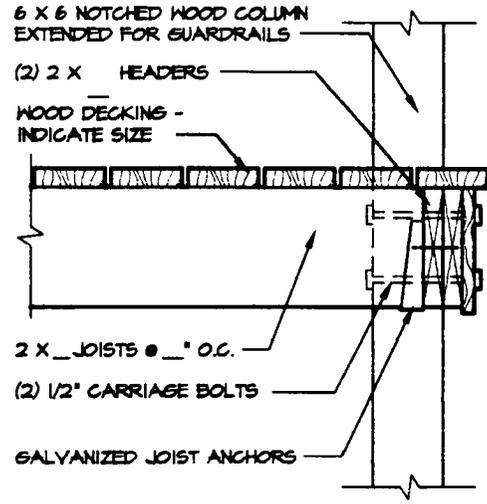
(2) 2 X HEADERS

WOOD DECKING -
INDICATE SIZE

2 X JOISTS @ ___" O.C.

(2) 1/2" CARRIAGE BOLTS

GALVANIZED JOIST ANCHORS



1

**POST-BEAM
CONNECTION**
SCALE : 3/4"=1'-0"

SDPB1

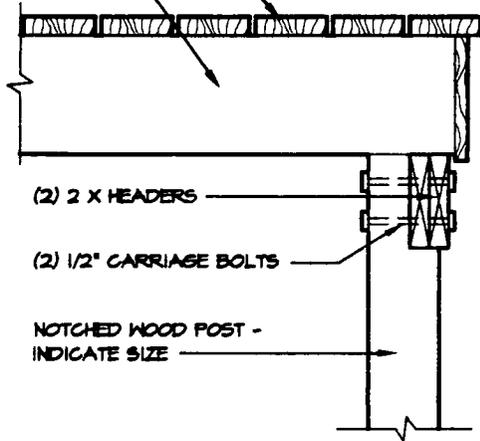
2

**POST-BEAM
CONNECTION**
SCALE : 3/4"=1'-0"

SDPB2

WOOD DECKING -
INDICATE SIZE

2 X JOISTS @ ___" O.C.



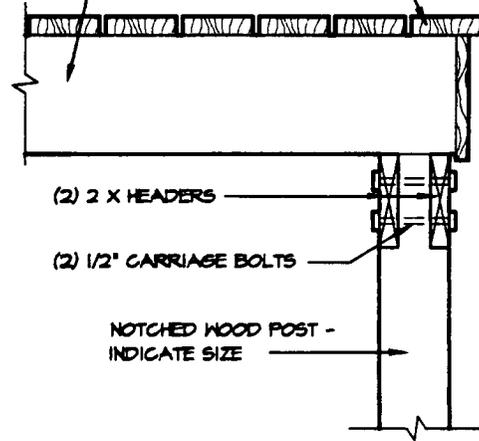
(2) 2 X HEADERS

(2) 1/2" CARRIAGE BOLTS

NOTCHED WOOD POST -
INDICATE SIZE

WOOD DECKING -
INDICATE SIZE

2 X JOISTS @ ___" O.C.



(2) 2 X HEADERS

(2) 1/2" CARRIAGE BOLTS

NOTCHED WOOD POST -
INDICATE SIZE

3

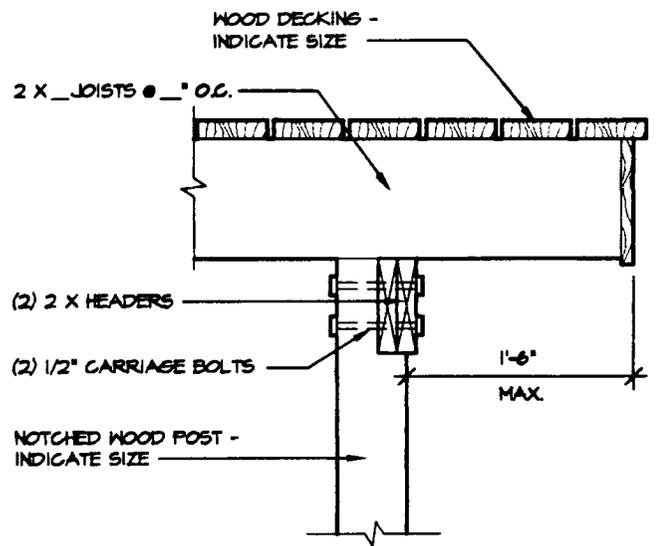
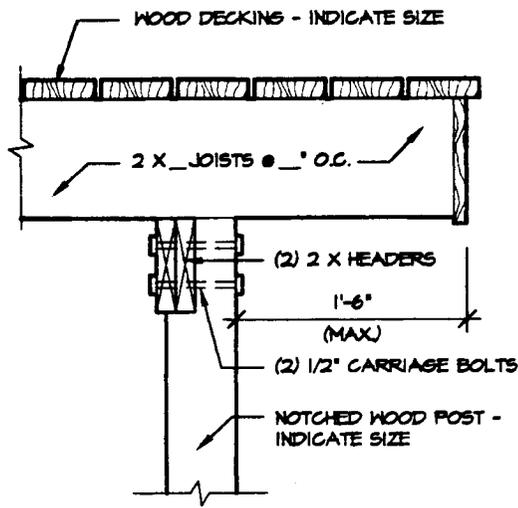
**POST-BEAM
CONNECTION**
SCALE : 3/4"=1'-0"

SDPB3

4

**POST-BEAM
CONNECTION**
SCALE : 3/4"=1'-0"

SDPB5

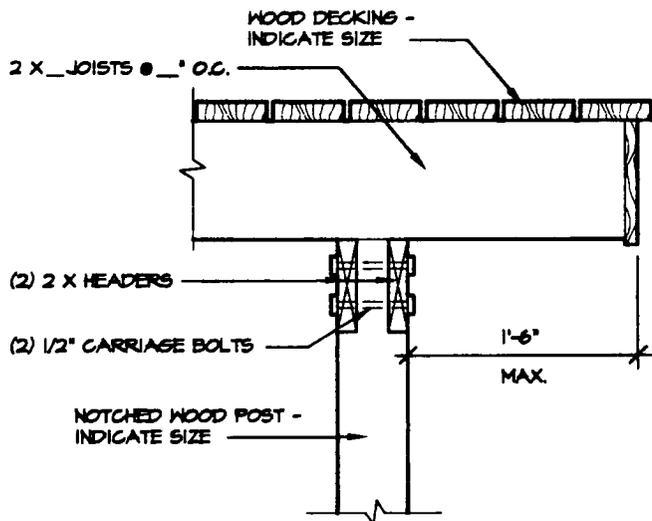


1 CANTILEVER POST-BEAM CONNECTION
SCALE : 3/4"=1'-0"

SDCP1

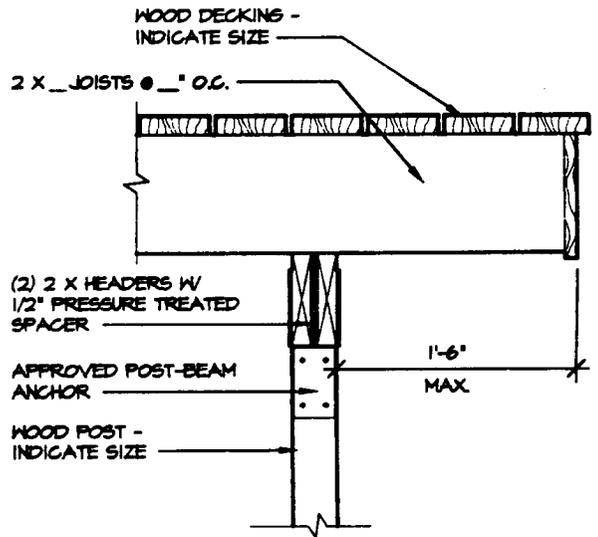
2 CANTILEVER POST-BEAM CONNECTION
SCALE : 3/4"=1'-0"

SDCP2



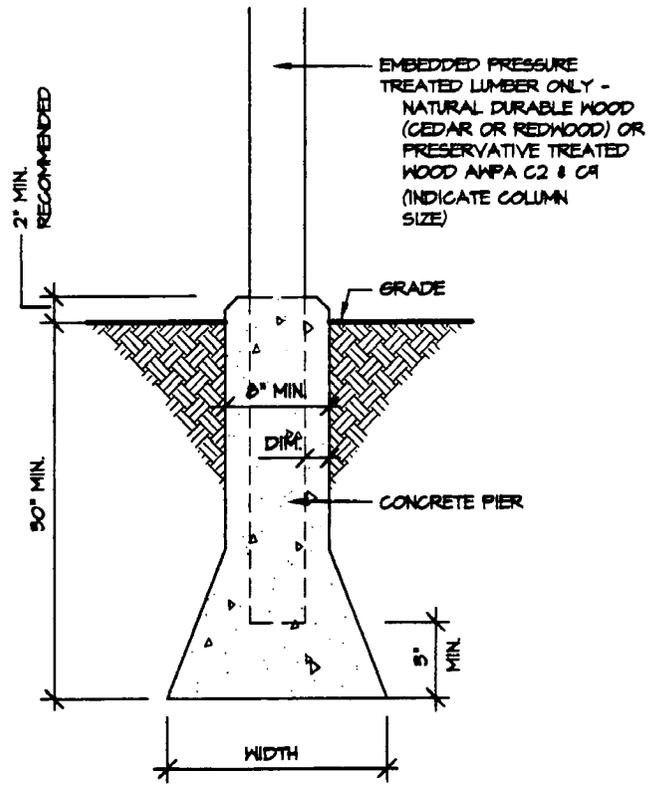
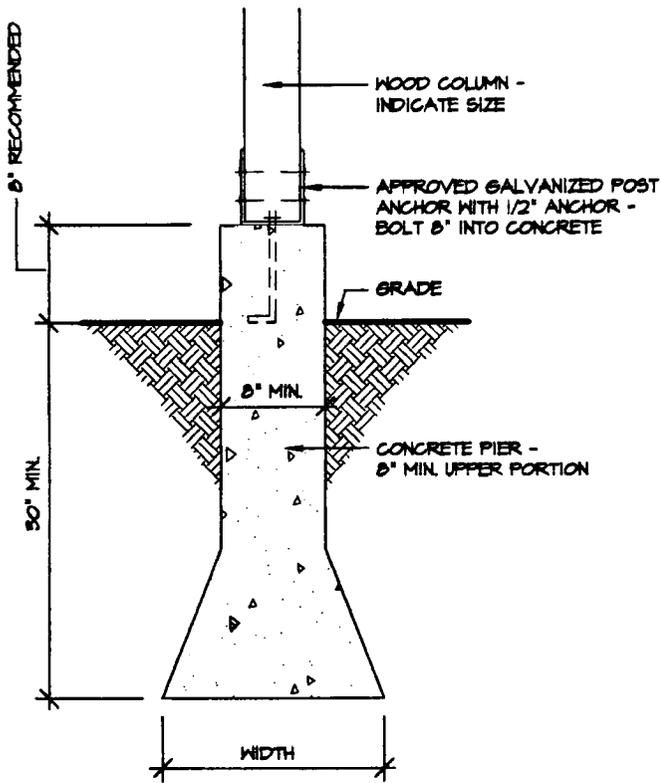
3 CANTILEVER POST-BEAM CONNECTION
SCALE : 3/4"=1'-0"

SDCP3



4 CANTILEVER POST-BEAM CONNECTION
SCALE : 3/4"=1'-0"

SDCP4



1

PIER-POST DETAIL

SCALE : 3/4"=1'-0"

SDP1

2

PIER-POST DETAIL

SCALE : 3/4"=1'-0"

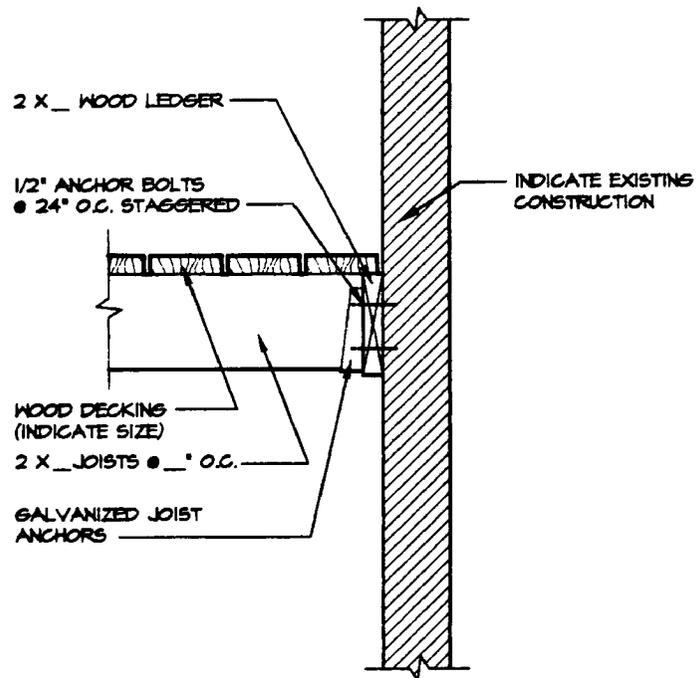
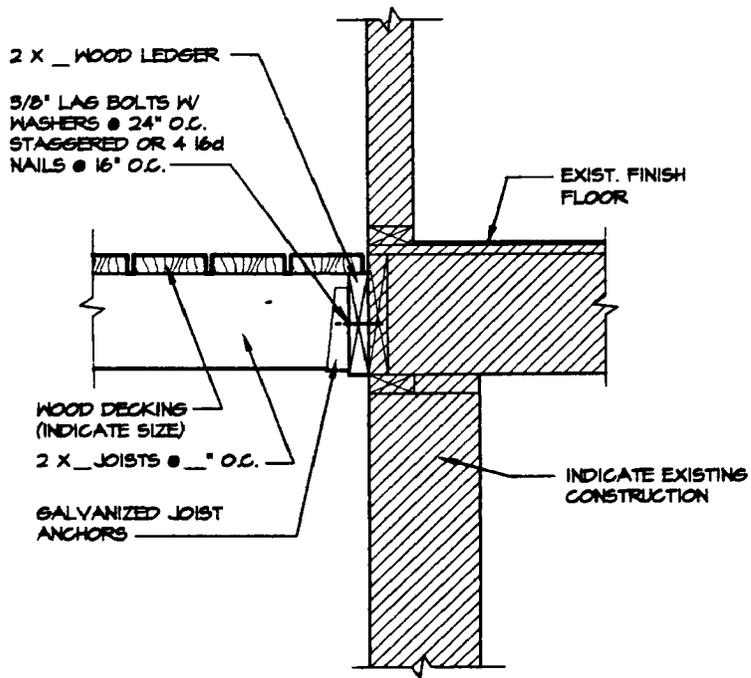
SDP2

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1

DECK TO HOUSE CONNECTION
SCALE : 3/4"=1'-0"

SDHC1

2

DECK TO HOUSE CONNECTION
SCALE : 3/4"=1'-0"

SDHC2

SD-PC9