

Building Standards

100 Regina St. S. 2nd Floor Waterloo, Ontario N2J 4A8

Ph: 519-747-8712 Fx: 519-747-8792 www.waterloo.ca

REVISED: 2014

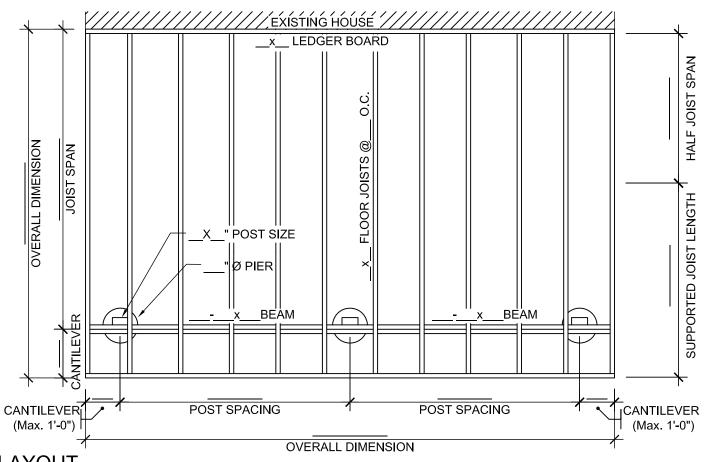
Fill - In Deck Layout

Beam Size Chart

Floor Joist Chart

DRAWING NO.:

1



Thickness

DECK LAYOUT

MATERIAL FOR STRUCTURAL ELEMENTS (EX. PRESSURE TREATED WOOD):

MATERIAL FOR DECK BOARDS (EX. TREX LUMBER):

Note: All wood decking is to be 5/4" x 6" (minimum) or approved equal

Maximum 2-Ply Beam Length					
Supported Joist Length	2-2x8	2-2x10	2-2x12		
4'-0"	11'-7"	14'-10"	17'-4"		
6'-0"	9'-10"	12'-1"	14'-0"		
8'-0"	8'-7"	10'-6"	12'-3"		
10'-0"	7'-8"	9'-4"	10'-8"		
Maximum 3-Ply Beam Length					
Supported Joist Length	3-2x8	3-2x10	3-2x12		
8'-0"	10'-8"	13'-0"	15'-1"		
10'-0"	9'-6"	11'-8"	13'-6"		

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Maximum Floor Joist Length					
Joist Size	Max. Joist Span	Max. Cantilever			
2x8 @ 12" O.C.	12'-6"	16"			
2x8 @ 16" O.C.	11'-9"	16"			
2x8 @ 24" O.C.	11'-0"	16"			
2x10 @ 12" O.C.	14'-6"	24"			
2x10 @ 16" O.C.	13'-8"	24"			
2x10 @ 24" O.C.	12'-10"	24"			
2x12 @ 12" O.C.	16'-5"	24"			
2x12 @ 16" O.C.	15'-6"	24"			
2x12 @ 24" O.C.	14'-6"	24"			

Width

Material



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Fill - In Guard Details

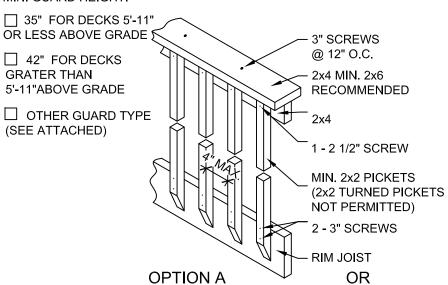
Post Details

Ledger Board Details

DRAWING NO.:

2

MIN. GUARD HEIGHT:



**NOTE: ANYTHING OTHER THAN A WOOD GUARD/RAILING, PLEASE SUBMIT A COPY OF THE PRE-ENGINEERED GUARD/RAILING DETAILS WITH YOUR BUILDING PERMIT APPLICATION.

MIN. 2x2 PICKETS (OR MIN. 5/4" THICK BOARDS IF SOLID)

2x4 MAX. 5 1/2" _ (TO TOP)

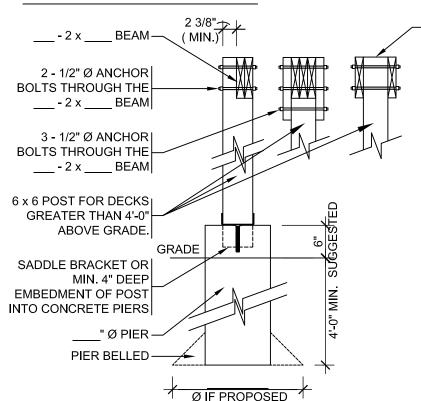
2x4

RIM JOIST

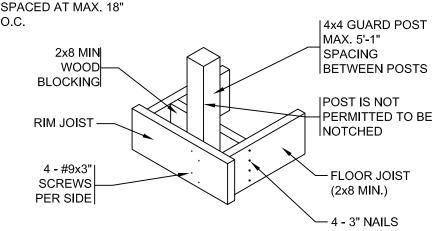
OPTION B

SOLID BLOCKING

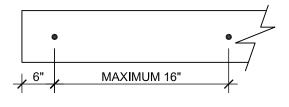
WOOD GUARD DETAILS - CIRCLE ONE



POST DETAIL - CIRCLE ONE



GUARD POST DETAIL



MIN. 1/2" Ø LAG BOLTS SPACED AT MAX. 16" O.C. LAG BOLTS MUST BE INTO WOOD FRAMING OR FOUNDATION WALL

LEDGER BOARD DETAIL



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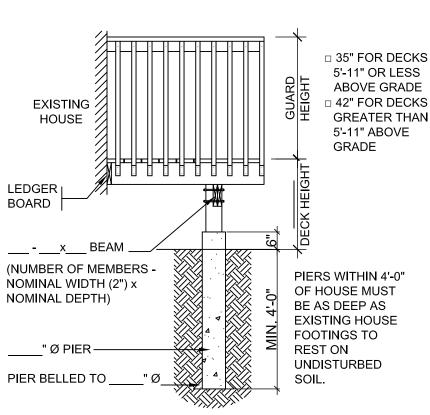
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Fill - In **Deck Elevation**

Stair Details

Pier Size Chart

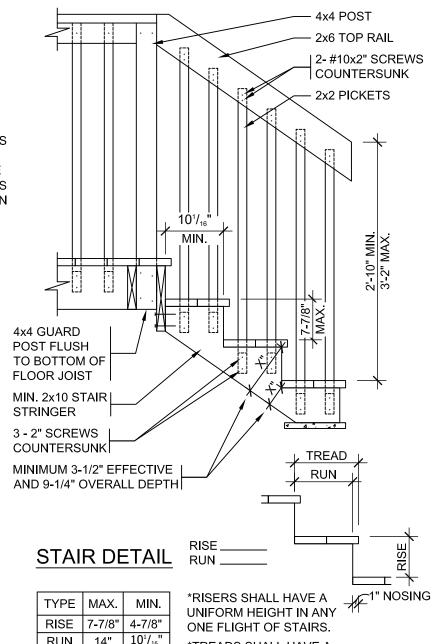
DRAWING NO.:



DECK ELEVATION

	PIER SIZE			
JOIST SPAN	PIER SPACING			
	4'	6'	8'	10'
6'	8"Ø	10"Ø	10"Ø	12"Ø
8'	8"Ø	10"Ø	12"Ø	14"Ø
10'	10"Ø	12"Ø	14"Ø	14"Ø
12'	10"Ø	12"Ø	14"Ø	16"Ø

PIER SIZES



TYPE	MAX.	MIN.
RISE	7-7/8"	4-7/8"
RUN	14"	101/16"
MAX 1" NOSING		

*TREADS SHALL HAVE A UNIFORM RUN AND TREAD DEPTH IN ANY ONE FLIGHT OF STAIRS.

STAIR DIMENSIONS