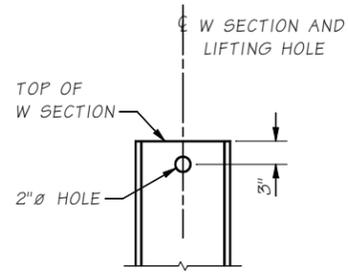


**NOTES:**

1 USE EITHER CONTROLLED DENSITY FILL OR PUMPABLE LEAN CONCRETE WHEN PLACED IN THE DRY. USE PUMPABLE LEAN CONCRETE WHEN PLACED IN THE WET.



**SOLDIER PILE LIFTING HOLE**

LIFTING HOLE TO BE DRILLED IN THE SHOP PRIOR TO PAINTING THE PILE.

PERMANENT TIMBER LAGGING SIZES $\mu$	
DEPTH (FT) $\tau$	SIZE $\tau$
0 - 9	4 x
9 - 18	6 x
18 - 30	8 x

4 x - OPTIONAL 4 x 8, 4 x 10 OR 4 x 12  
 6 x - OPTIONAL 6 x 8, 6 x 10 OR 6 x 12  
 8 x - OPTIONAL 8 x 8, 8 x 10 OR 8 x 12

**Notes to Designer:**

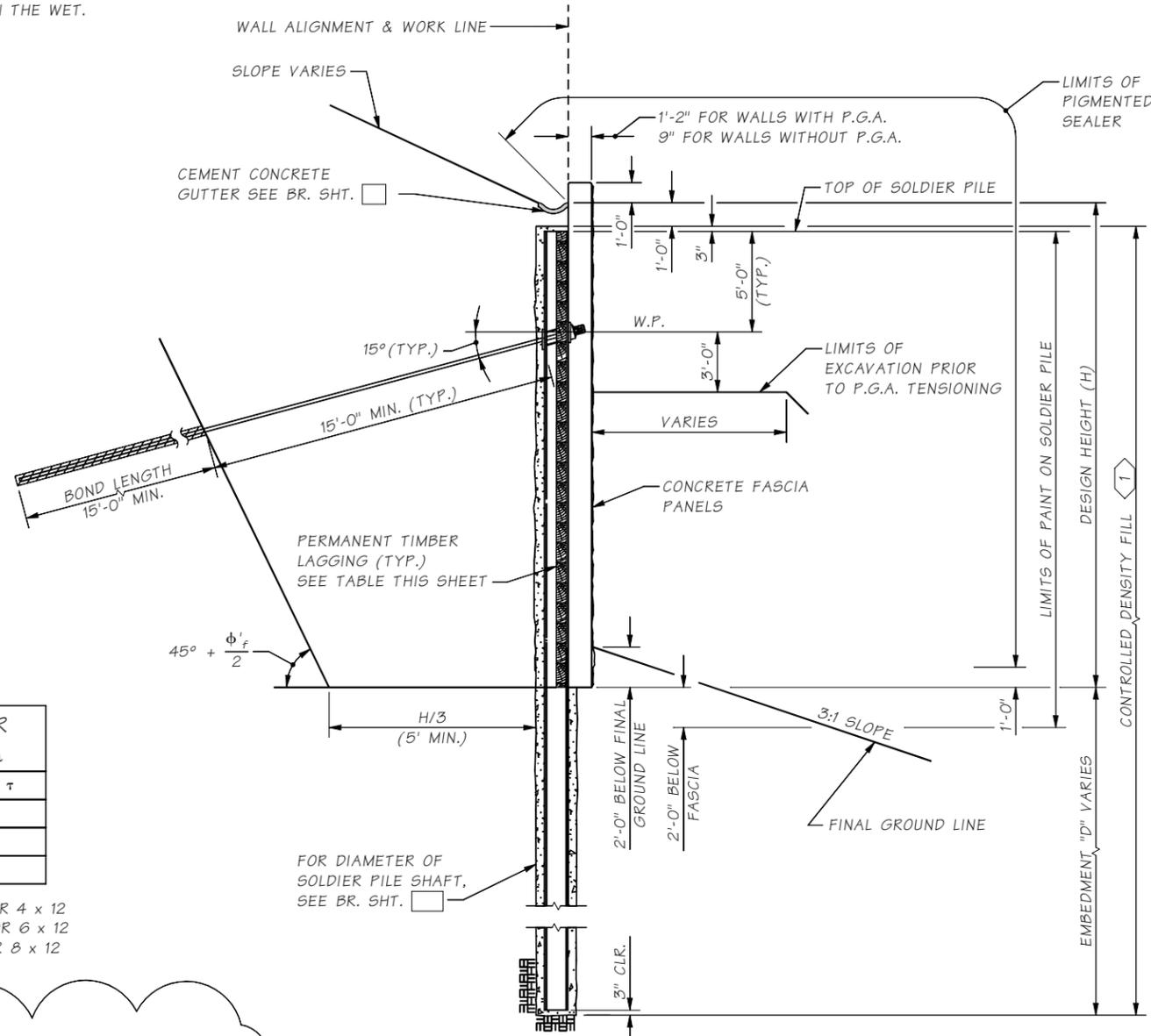
$\tau$  Depths and sizes shown are for example only. Fill in the table according to the earth pressure diagram and recommendations from the Geotechnical Services Branch, based on LRFD timber design for permanent lagging.

$\mu$  Determine, if possible, the length of time that the wall lagging will be used as the primary structural member in the transverse direction before a permanent wall fascia is applied.

For walls with P.G.A. use a section size with a flange width bigger than or equal to HP12x53 or W12x65.

For walls without concrete fascia panels:

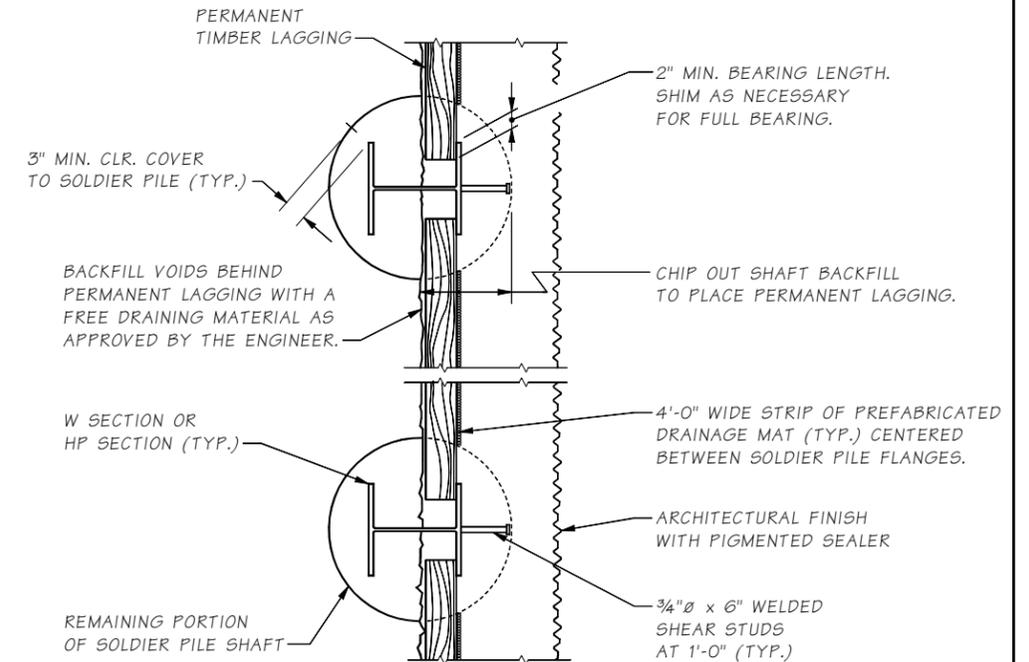
- Hem-fir timber lagging shall not be used.
- Douglas fir-larch, grade no. 2 or better, treated in accordance with section 9-09.3(1), shall be used and shall be specified in the plan sheets and Special Provisions.



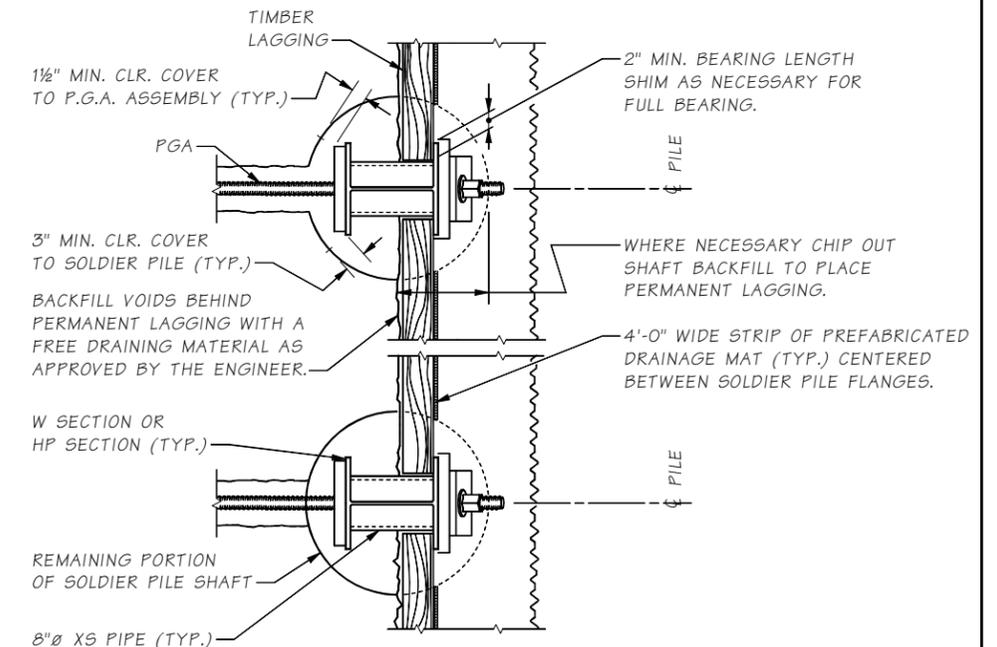
**TYPICAL SECTION**

SHOWN FOR SOLDIER PILE WITH P.G.A. SIMILAR FOR SOLDIER PILE WITHOUT P.G.A. P.G.A.= PERMANENT GROUND ANCHOR

LAGGING IN SERVICE 36 MONTHS OR LONGER



**PLAN SOLDIER PILE WALL WITHOUT P. G. A.**



**PLAN SOLDIER PILE WALL WITH P. G. A.**

Last revised on : 10/08/2021

SR JOB NO. 8.1-A3-3

Bridge Design Engr.	M:STANDARDS	Walls	SOLDIER TIEBACK	SOLDIER TIEBACK DETAILS B.MAN	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor					10	WASH.			
Designed By					JOB NUMBER				
Checked By									
Detailed By									
Bridge Projects Engr.									
Prelim. Plan By									
Architect/Specialist	DATE	REVISION	BY	APPD					

Fri Oct 08 15:53:29 2021

**BRIDGE AND STRUCTURES OFFICE**



SOLDIER PILE/TIEBACK WALL  
 DETAILS 2 OF 3

BRIDGE SHEET NO.  
 SHEET  
 OF  
 SHEETS