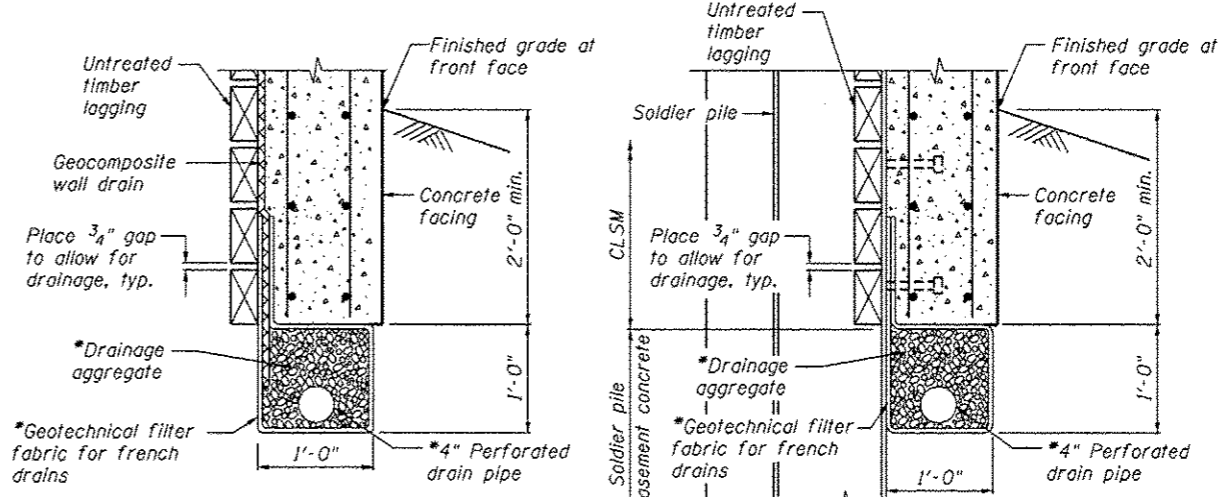


**SECTION THRU DRILLED SOLDIER PILE WALL**

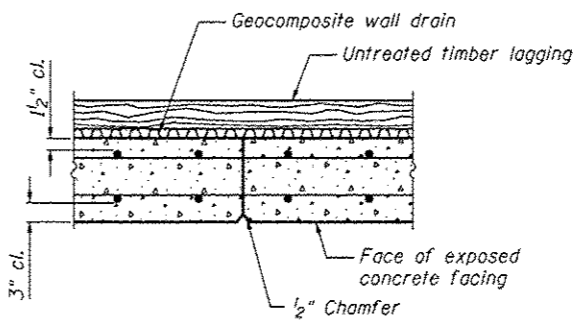


**BETWEEN SOLDIER PILES**

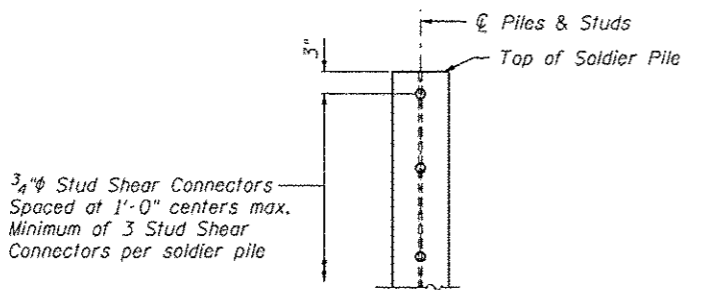
**AT SOLDIER PILES**

**PIPE UNDERDRAIN DETAIL**

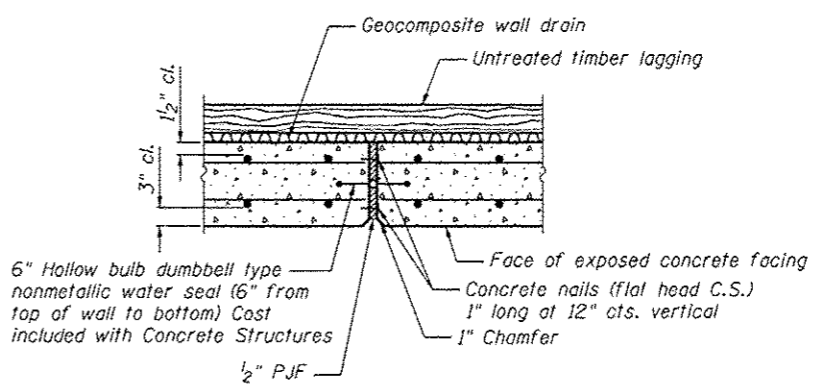
\*Included in the cost of "Pipe Underdrains for Structures, 4"



**CONSTRUCTION JOINT DETAIL**



**DETAIL OF SHEAR STUD PLACEMENT**



**EXPANSION JOINT DETAIL**

**DETAILS  
SN 022-W042**

FILE NAME = ... \NSP2-2-02-2014-02-04-Cover-1.rvt



Zroka Engineering, P.C.  
4216 North Hermitage  
Chicago, IL 60613

USER NAME = SAW	DESIGNED - LAS	REVISED -
PLOT SCALE = 5.00" / IN.	CHECKED - DAZ	REVISED -
PLOT DATE = 5/9/2012	DRAWN - SAW	REVISED -
	CHECKED - LAS	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETAILS  
STA. 3911+30.14 TO STA. 3913+30.00 SN 022-W042**

SHEET NO. SD-4 OF SD-8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-1	DUPAGE	234	91
CONTRACT NO. 60P42				
ILLINOIS FED. AID PROJECT				