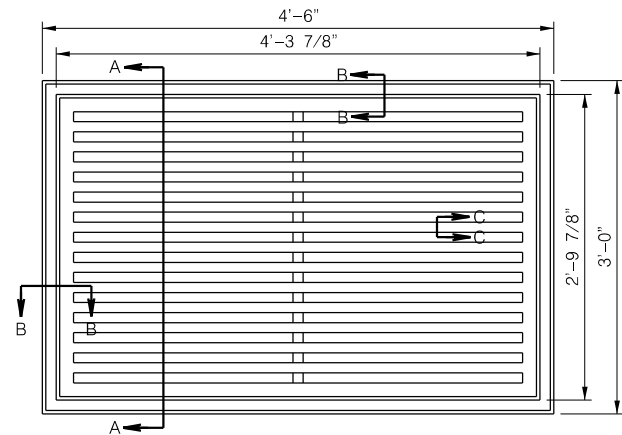
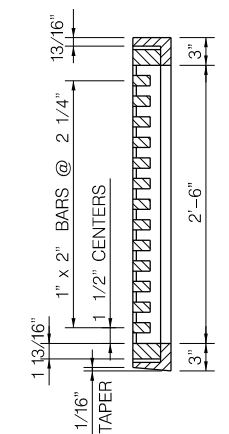


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 PEN: \\ables\pen_BW_PENTABLE.tbl
 USER: slocaw
 DATE: 2/24/2017
 DGN: ...STANDARD 2017.LSPs lsp130.dgn

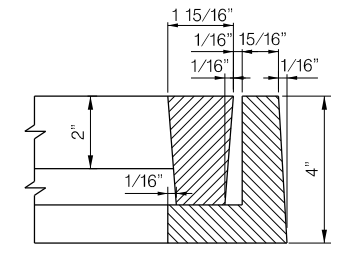


NOTE: CLEAR OPENING = 5.5 SQUARE FEET

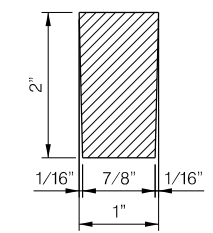
TYPE 'H' GRATE AND FRAME



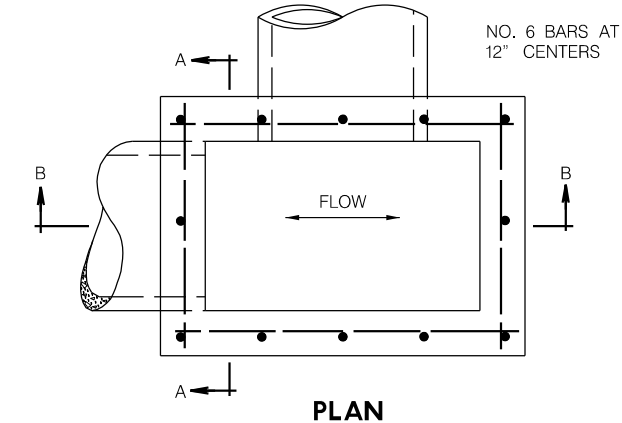
SECTION A-A



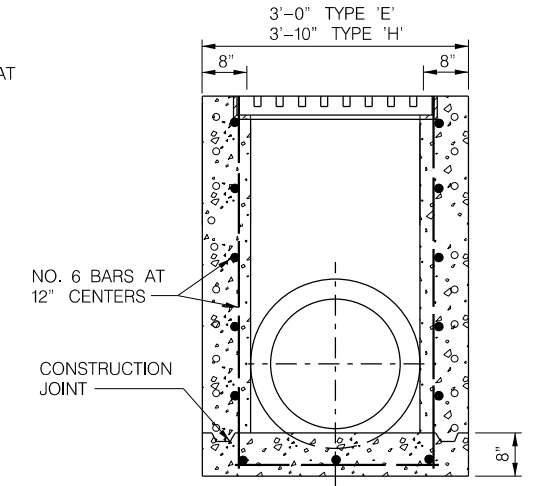
SECTION B-B



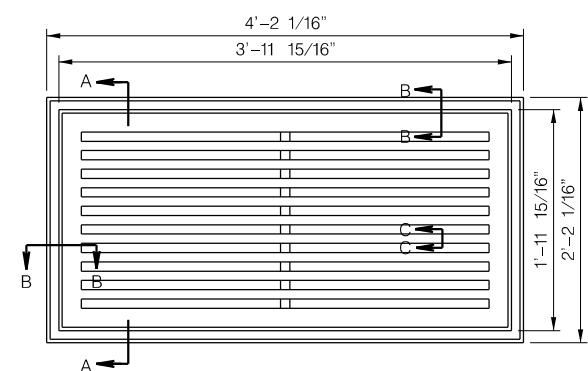
SECTION C-C



PLAN

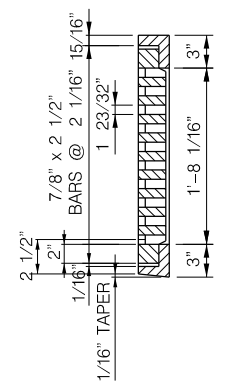


SECTION A-A

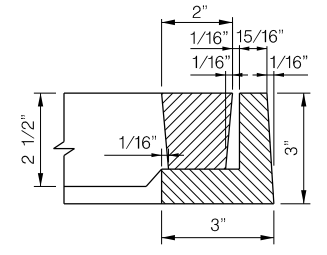


NOTE: CLEAR OPENING = 3.6 SQUARE FEET

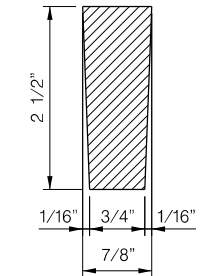
TYPE 'E' GRATE AND FRAME



SECTION A-A



SECTION B-B

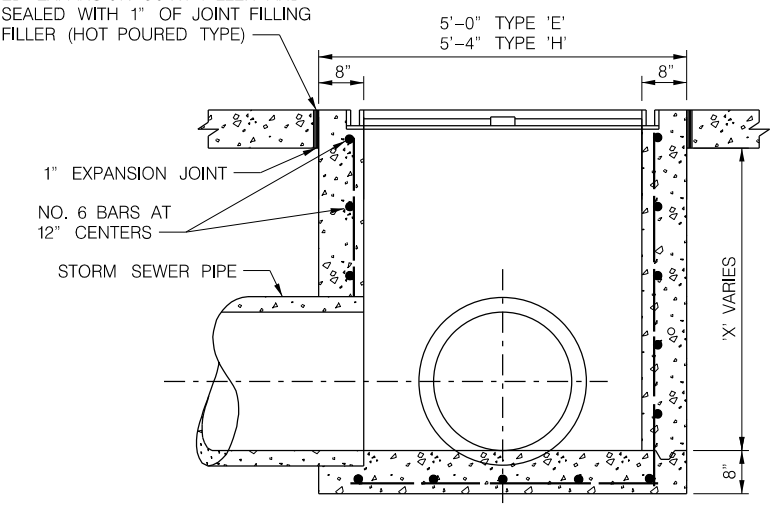


SECTION C-C

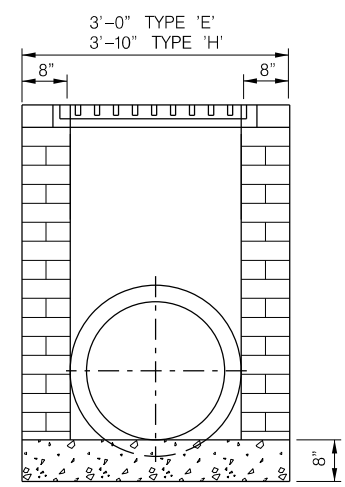
'X' DEPTH In Ft.	TYPE 'E'		TYPE 'H'	
	CONCRETE CUBIC YARDS	STEEL POUNDS	CONCRETE CUBIC YARDS	STEEL POUNDS
3.0	1.4	135	1.7	169
4.0	1.7	171	2.1	212
5.0	2.0	207	2.5	256
6.0	2.4	243	2.9	299
7.0	2.7	279	3.3	342
8.0	3.0	315	3.7	385
9.0	3.4	351	4.1	428
Add 0.1	0.033	3.6	0.040	4.3

EACH INLET SHALL INCLUDE A CAST IRON GRATE AND FRAME.
 TABLE DOES NOT INCLUDE DEDUCTIONS FOR PIPE OPENING.

IN CONCRETE PAVEMENT, EXPANSION JOINT TO BE FILLED WITH PREFORMED EXPANSION JOINT FILLER AND SEALED WITH 1" OF JOINT FILLING FILLER (HOT POURED TYPE)

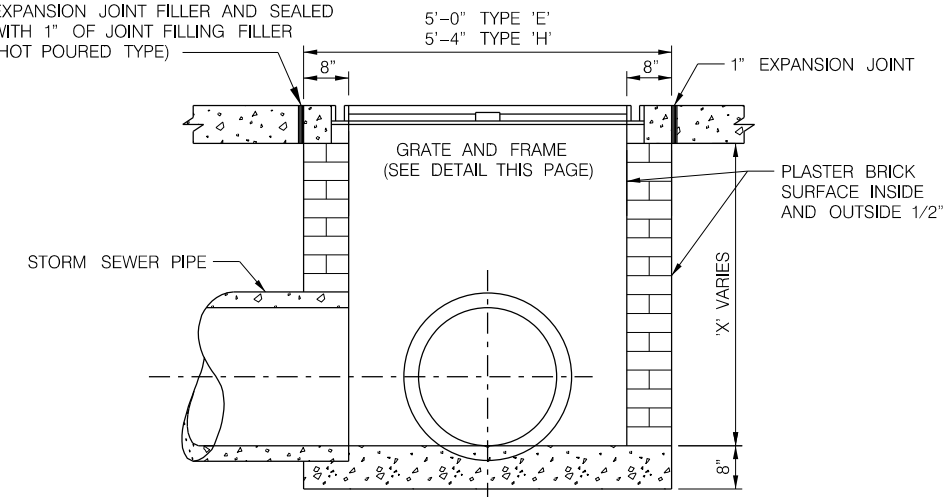


**SECTION B-B
 TYPE 'E' AND 'H' GRATE INLET**



**SECTION A-A
 TYPE 'E₂' AND 'H₂' GRATE INLET**

IN CONCRETE PAVEMENT, EXPANSION JOINT TO BE FILLED WITH PREFORMED EXPANSION JOINT FILLER AND SEALED WITH 1" OF JOINT FILLING FILLER (HOT POURED TYPE)



**SECTION B-B
 TYPE 'E₂' AND 'H₂' GRATE INLET**

GENERAL NOTES:
 ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO A.S.T.M. SERIAL DESIGNATION A-305-507 AND SHALL SATISFY THE BEND TEST REQUIREMENTS FOR STRUCTURAL GRADE STEEL IN ACCORDANCE WITH THE REQUIREMENTS.

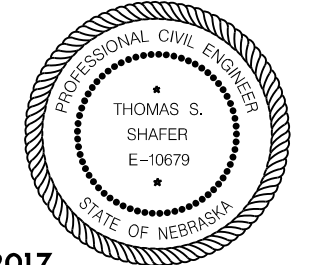
ALL CONCRETE SHALL BE L3500.

MINIMUM DEPTH OF EMBEDMENT FOR REINFORCING STEEL SHALL BE 2" UNLESS OTHERWISE INDICATED.

ALL CASTINGS TO BE COATED WITH BITUMINOUS PAINT.

BRICK GRATE INLET SHALL NOT EXCEED 72"

ALL REINFORCING STEEL TO BE EPOXY COATED.



EFFECTIVE DATE MARCH 22, 2017

GRATE INLETS, TYPE 'E' AND 'H'

This document was originally issued and sealed by Thomas S. Shafer, E-10679, on 2-17-2017. This media should not be considered a certified document.