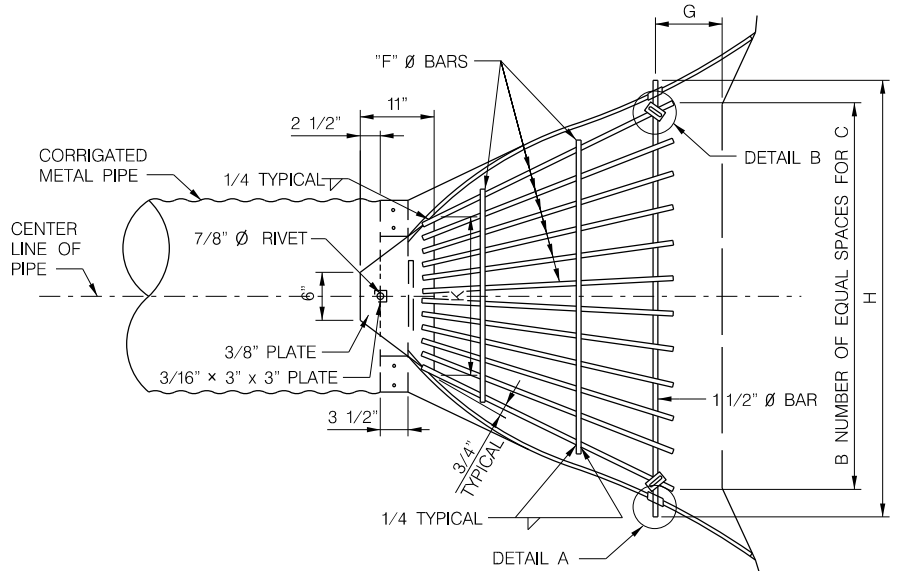
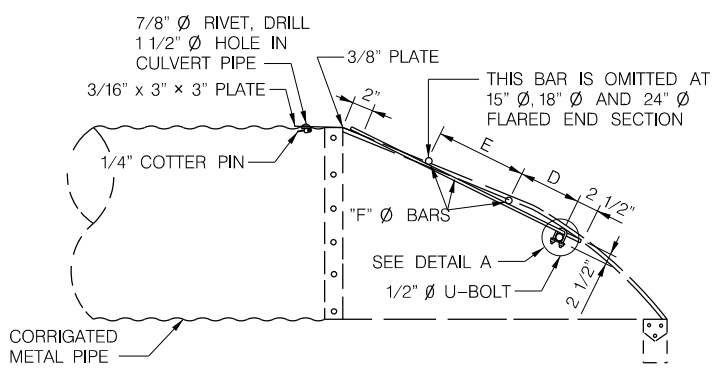


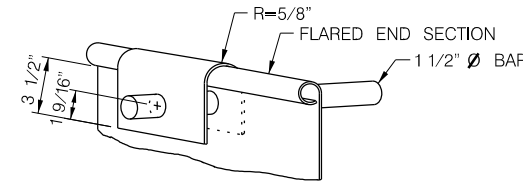
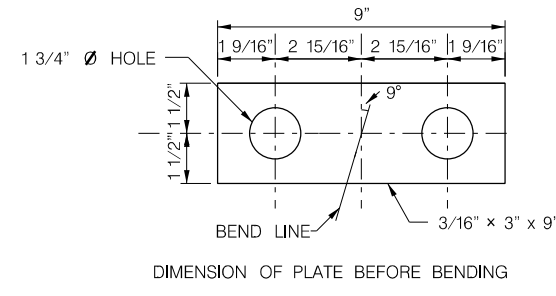
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 USER: slocaw
 DATE: 2/17/2017
 DGN: ..\STANDARD\2017\LSPs\lsp161.dgn



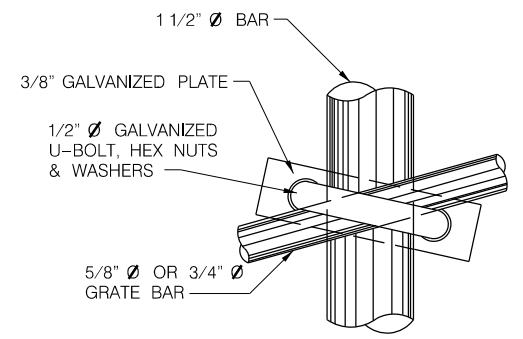
PLAN FOR BAR GRATE
BAR GRATE FOR METAL FLARED END SECTION



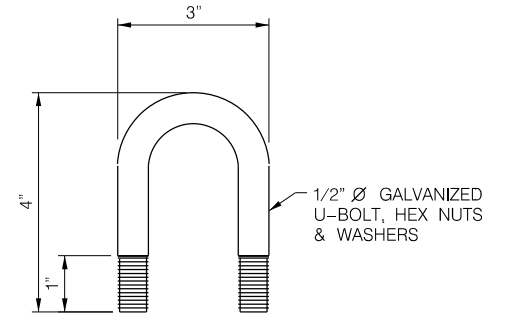
ELEVATION OF BAR GRATE



DETAIL A
 (2) 3/16" x 3" x 9" PLATES
 REQUIRED PER ASSEMBLY

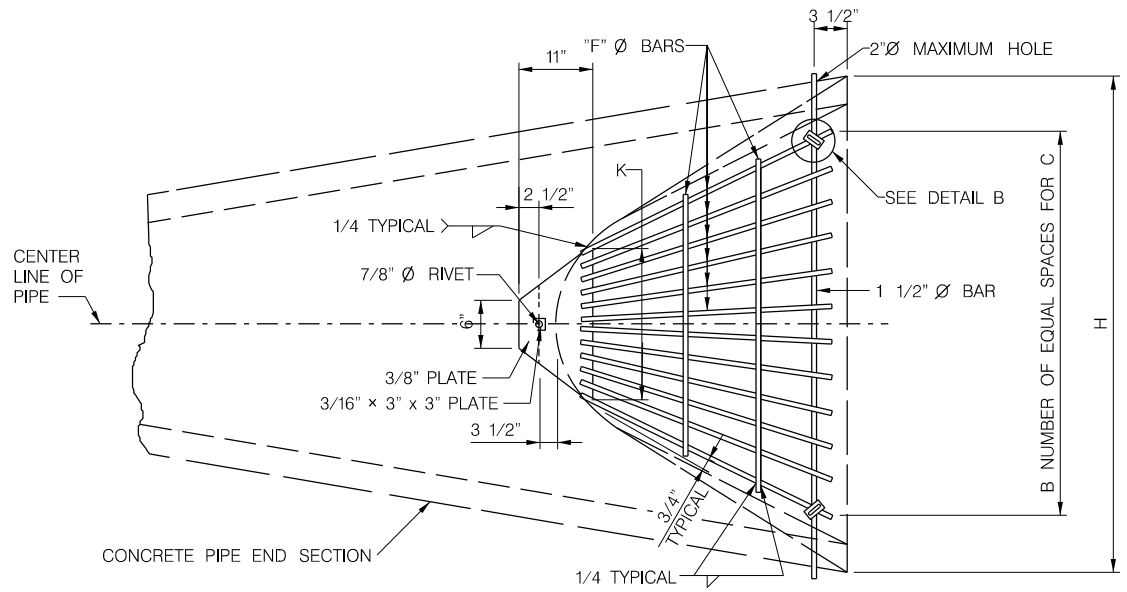


DETAIL B

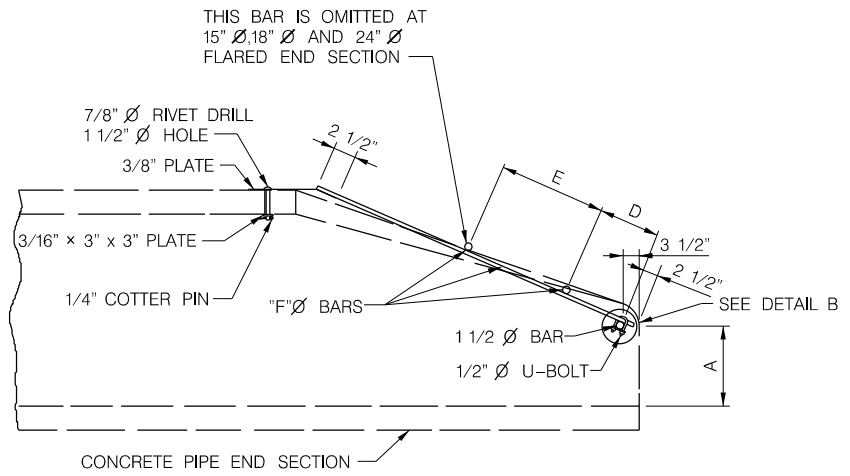


U-BOLT AND PLATE DETAIL

NOTE:
 ALL BARS USED IN GRATES SHALL CONFORM TO THE REQUIREMENTS OF A.S.T.M. A575 GRADE 1020 STEEL.
 THE BAR GRATE MAY BE SHOP ASSEMBLED WITH THE FLARED END SECTIONS.



PLAN OF BAR GRATE
BAR GRATE FOR CONCRETE PIPE END SECTION



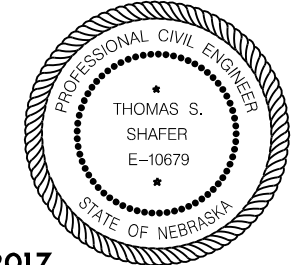
ELEVATION OF BAR GRATE

NOTE:
 INSTALL BAR GRATE ON INLET ENDS OF STORM SEWER SYSTEM ONLY.

	BAR GRATE DATA									
	A	B	C	D	E	F	G	H	K	
15" Ø PIPE	5"	4	2'-0"	6"	—	5/8"	6"	2'-11"	1'-4"	
18" Ø PIPE	8"	5	2'-6"	6"	—	5/8"	8"	3'-6"	1'-4"	
24" Ø PIPE	8 1/2"	7	3'-6"	9"	—	5/8"	8"	4'-7"	1'-8"	
30" Ø PIPE	11"	9	4'-6"	1'-0"	1'-6"	3/4"	1'-0"	5'-8"	1'-8"	
36" Ø PIPE	1'-2"	11	5'-6"	1'-0"	1'-6"	3/4"	1'-0"	6'-9"	2'-0"	

EFFECTIVE DATE MARCH 22, 2017

BAR GRATE FOR FLARED END SECTIONS



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