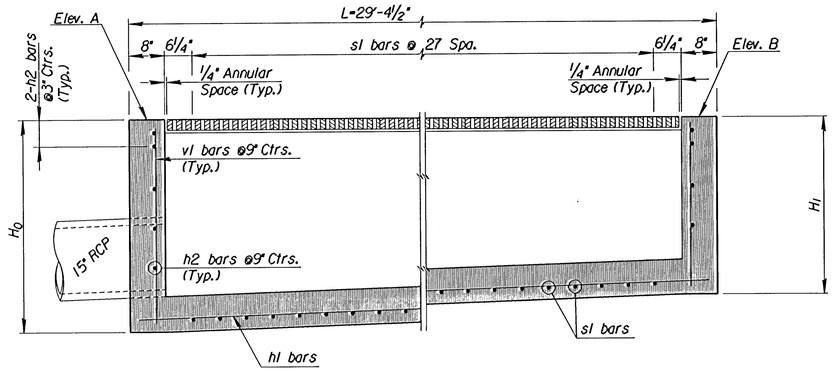
PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
618-34	1998	GO	IGO

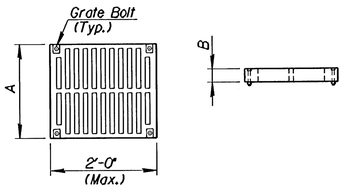


SECTION AT ℄ TRENCH INLET

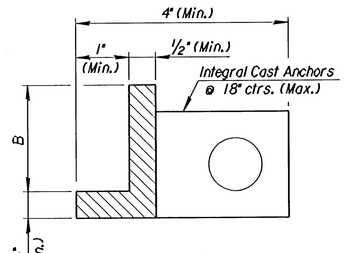
GRATE DIMENSIONS & TYPES

Inlet Dimensions		Outfall Pipe Dia. (In.)	Approved Grates					
			Neenah Foundry Co. †			Deeter Foundry Co. †		
W (In.)	H_0 (Min.) (In.)		Catalog No.	Grate Dim. A(In.)	Grate Dim. B(In.)	Catalog No.	Grate Dim. A(In.)	Grate Dim. B(In.)
40	48	15	R-4990-HX	26	1 1/2	3990-H	26	1 1/2

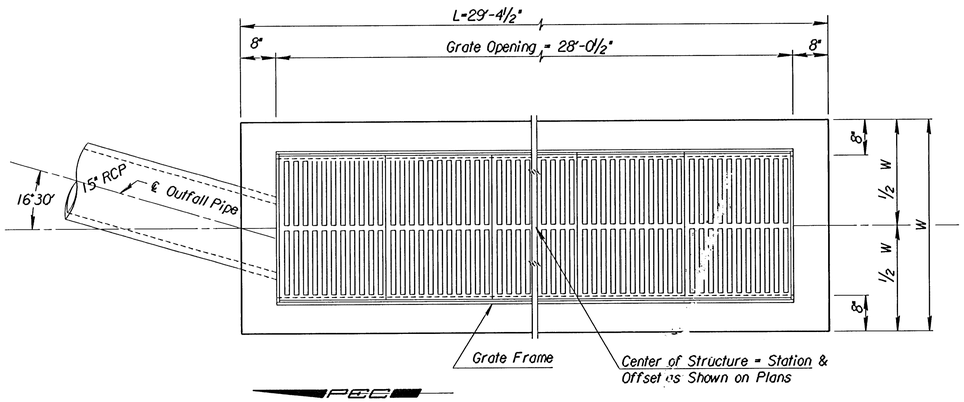
† Type A Grate



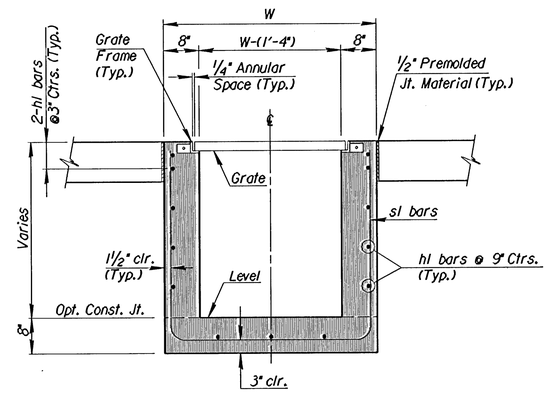
GRATE DETAIL



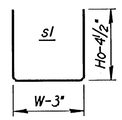
TYPICAL SECTION GRATE FRAME



PLAN



TYPICAL TRENCH SECTION



1. The trench grate and frame shall be as shown above or approved equal. The grate shall be the heavy duty type with a design loading of H20-44 and shall be bicycle safe.

   The grate and frame material shall be gray cast iron conforming to the requirements of the "Standard Specifications For Gray Iron Castings", ASTM A 48, Grade 30.

2. Use Air-Entrained Concrete with a minimum 28-day compressive strength of 3000 PSI throughout. At the Contractor's option the mix used in the concrete pavement may be used throughout.

3. Bevel all exposed edges of the concrete with a ¾" triangular molding.

4. All reinforcement shall conform to the requirements of "Standard Specifications For Deformed and Plain Billet-Steel Bars For Concrete Reinforcement", ASTM A615, Grade 40 or Grade 60.

Roadway	Station & Offset	DIMENSIONS W (In.)	H_0 (In.)	H_1 (In.)	ELEVATIONS A	B	PIPE SIZE Outfall Pipe Size (In.)	Inlet Pipe Size (In.)	REINFORCING s1 * Size & Spa.	No.	Length	h1 Size & Spa.	No.	Length	h2 ** Size & Spa.	No.	Length	v1 ** Size & Spa.	No.	Length	BILL OF MATERIALS (For Information Only) Conc. (Cu. Yds.)	Reinf. (Lbs.)	Exc. (Cu. Yds.)	Cast Iron (Lbs.)
Greenwich Road	48+69.5, 58.5' Rt.	40	48	30	1373.39	1373.39	15" RCP	---	#4@12"	28	10'-4"	#4@9"	13	29'-1"	#4@9"	9	3'-1"	#4@9"	6	3'-9"	6.4	480	20.1	2,324

* Field Cut bars at shallow end for vertical clearance.
** Field Cut or Bend for clearance.

No.	Revisions	By	Date
1			

SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES

TRENCH INLET

PROJECT NO. 618-34 SEDGWICK COUNTY

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by	JPS	Checked by	WDH
Drawn by	MAF	Date	JULY 1997	Job No.	95297-2

GO

I:/1995/95297/002/trenchlndgn
Drawn by: maf
Plotted by: maf 7-29-97