

Rev 12.13.88 TCB
Rev 12.21.88 TCB
For GBA Comments
GBA Comment

METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction

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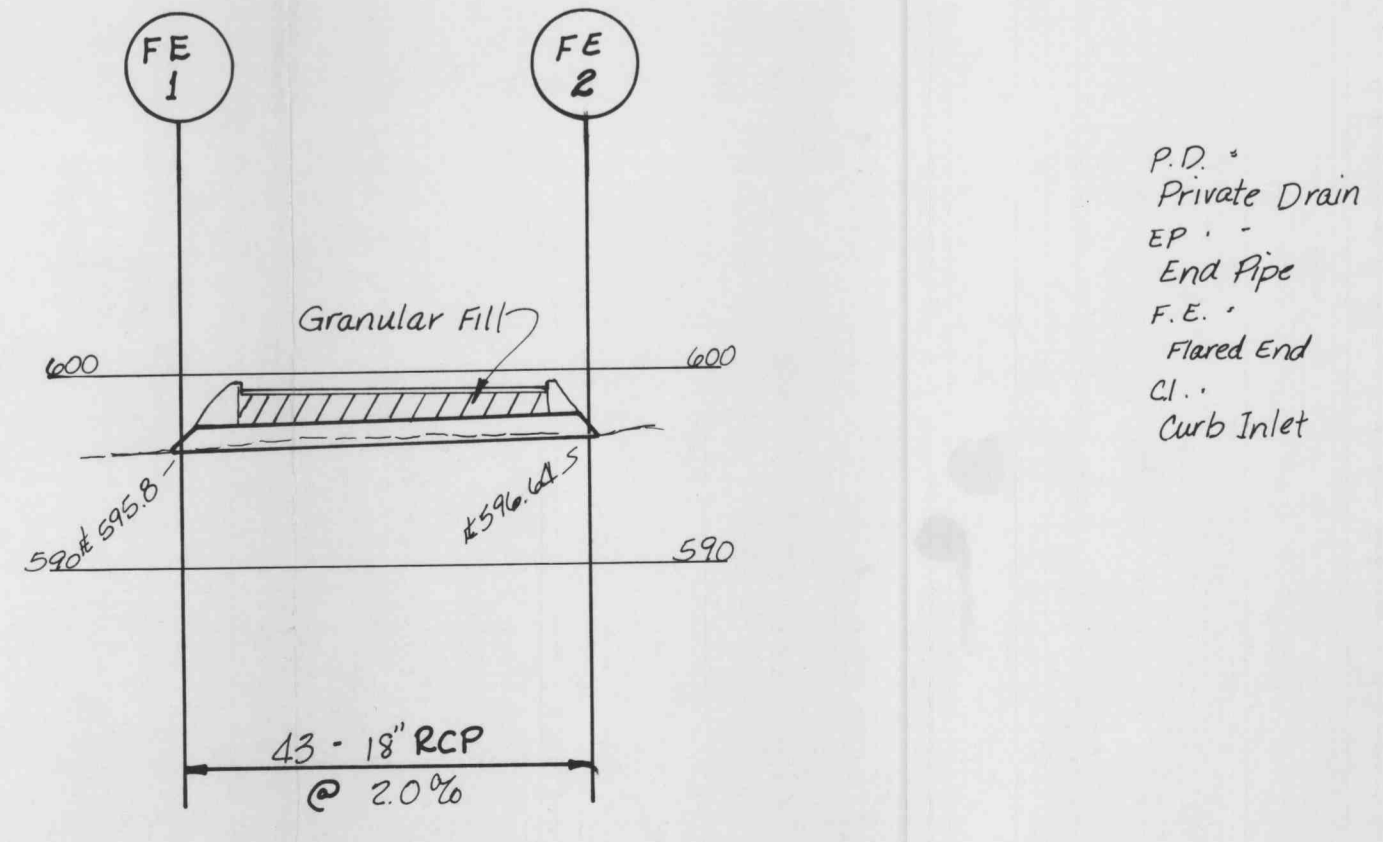
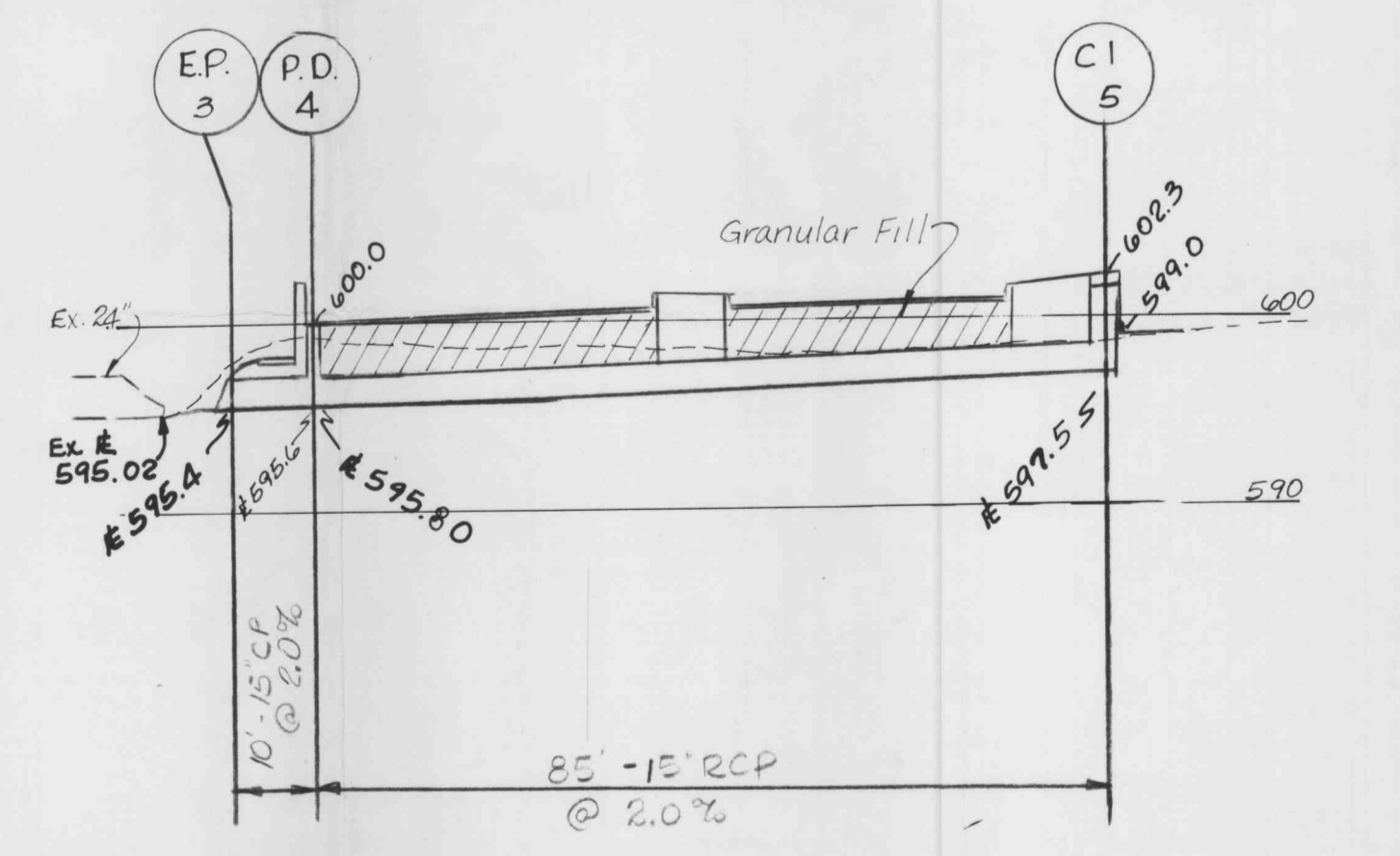
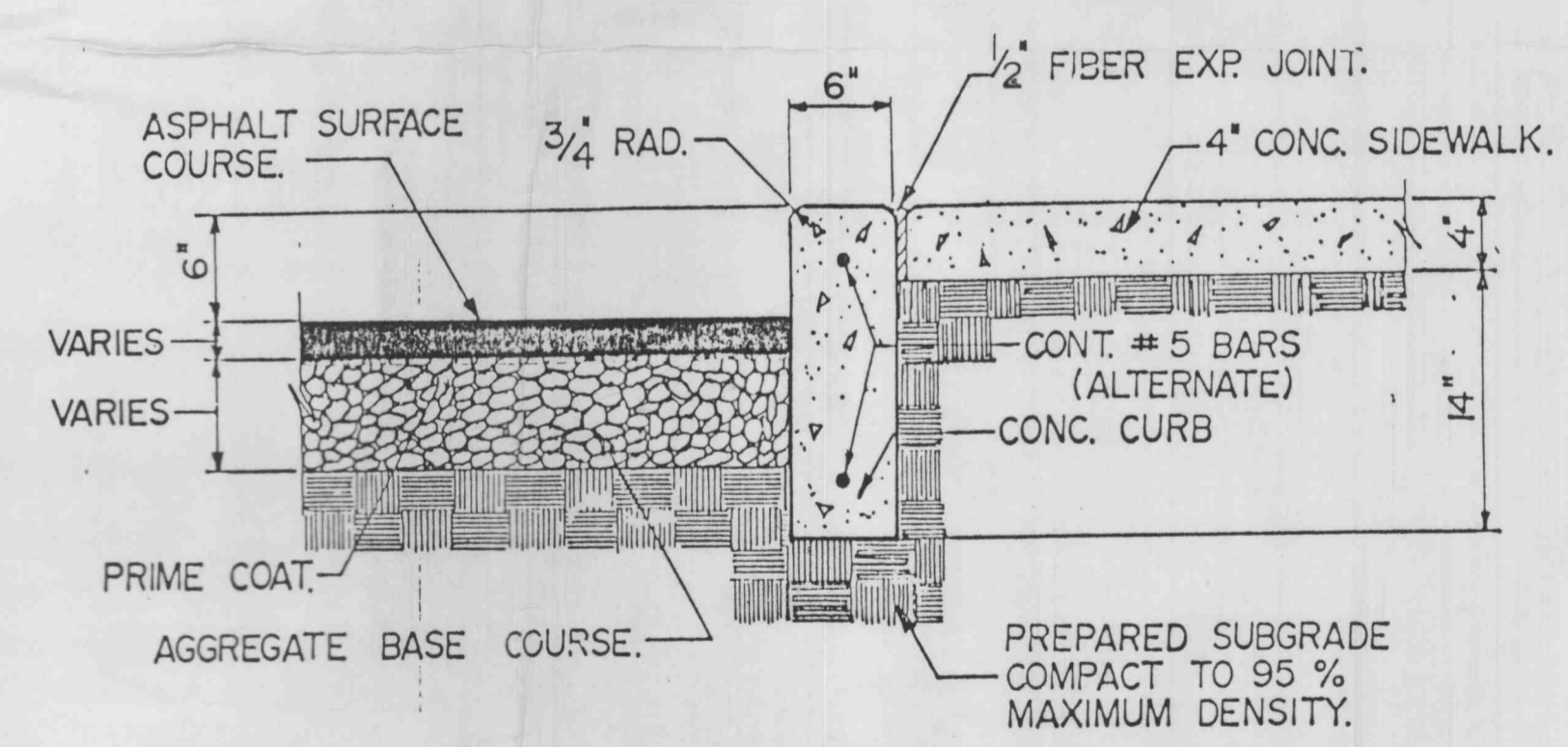
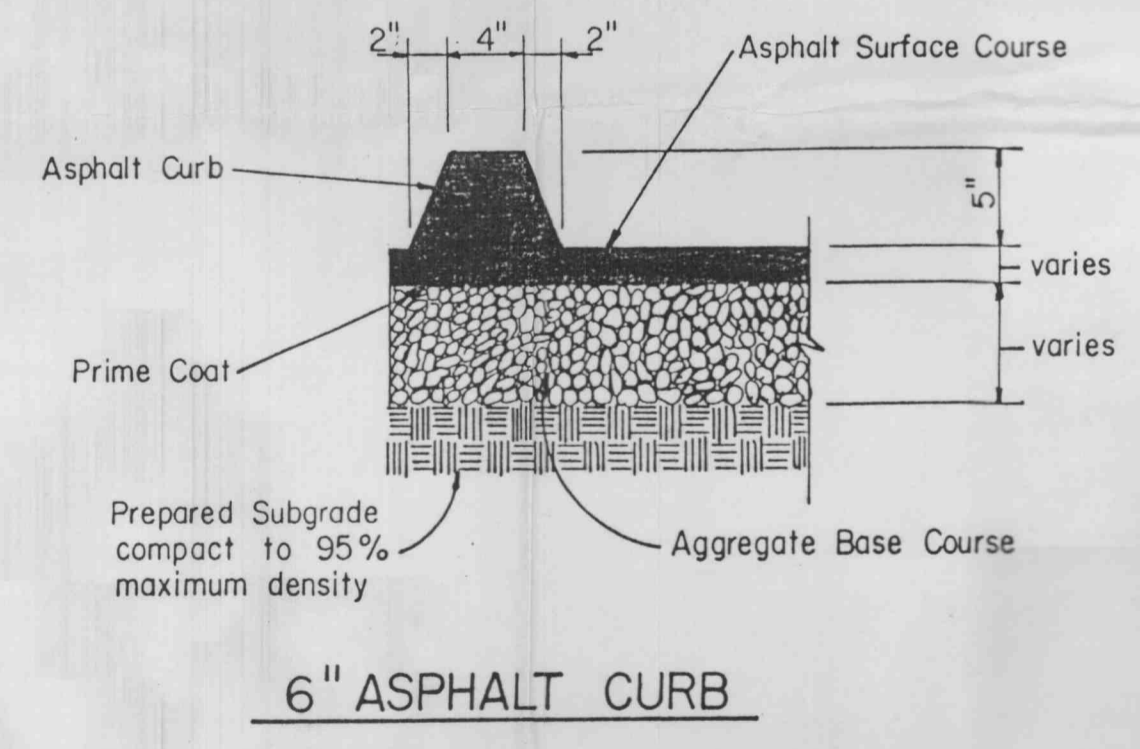
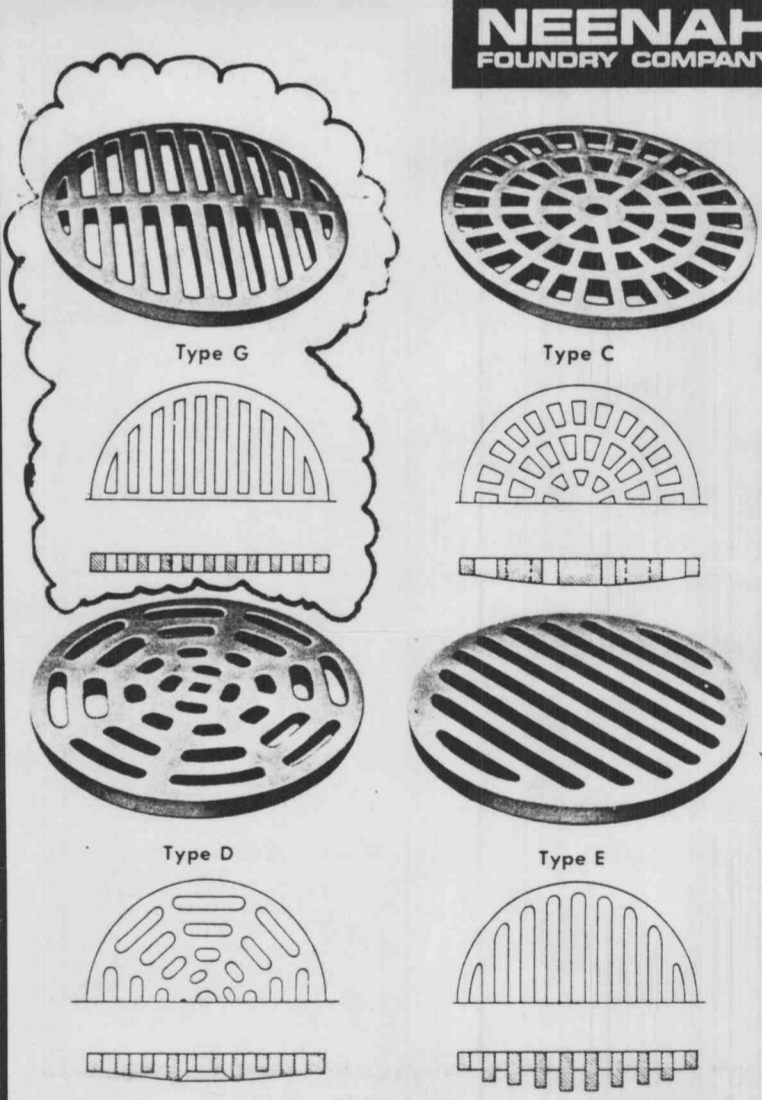
METROPOLITAN ST. LOUIS SEWER DISTRICT
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METROPOLITAN ST. LOUIS SEWER DISTRICT
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Recommend type G



P.D. Private Drain
EP End Pipe
F.E. Flared End
C1 Curb Inlet

R-4370 Series Heavy Duty Round Drainage Grates

Any grate listed can be furnished with light weight cast iron angle frame when specified. Frame is of 3/8" metal as shown on page 240. For severe-impacted loading conditions, inquire about these grates in Ductile Iron.

Catalog No.	Dimensions in inches				Type	Wt. lbs.
	A	B	G	H		
R-4370-1	6 1/4	1 1/4	1 x 1	1 1/2	C	12
R-4370-2	9 1/4	2 1/4	1 1/2 x 1 1/2	1 1/2	G	18
R-4370-3	15	1 1/4	1 1/2 x 1 1/2	1 1/2	E	38
R-4370-4	15	1 1/4	1 1/2 x 2 1/4	1 1/2	G	42
R-4370-5	18	1 1/4	1 1/2 x 4 1/2	1 1/2	G	68
R-4370-6	19 1/2	1 1/4	1 1/2 x 5 1/2	1 1/2	G	65
R-4370-7	20	1 1/4	2 x 2	1 1/2	G	75
R-4370-8	21	1 1/4	1 1/2 x 19 1/2	1 1/2	E	60
R-4370-9	22	1 1/4	1 1/2	1 1/2	C	76
R-4370-10	22	1 1/4	1 1/2	1 1/2	D	95
R-4370-11	22	1 1/4	1 1/2 x 5	1 1/2	F	120
R-4370-12	22	1 1/4	1 1/2 x 6	1 1/2	G	70
R-4370-13	22	1 1/2	2 1/4	1 1/2	G	115
R-4370-14A	22 1/2	1 1/4	1 1/2	1 1/2	D	110
R-4370-15	22 1/2	1 1/4	1 1/2	1 1/2	D	125
R-4370-17	22 1/2	1 1/4	1 1/2	1 1/2	E	115
R-4370-18	22 1/2	1 1/4	1 1/2	1 1/2	D	115
R-4370-21	23	1 1/4	1 1/2	1 1/2	D	115
R-4370-22	23	1 1/4	1 1/2 x 2 1/4	1 1/2	Special	116
R-4370-23	24	1 1/4	2 1/4 x 2 1/4	1 1/2	G	215
R-4370-25	29	3	1 1/2	1 1/2	G	220
R-4370-26	33	2	1 1/2	1 1/2	G	390
R-4370-27A	38	1 1/2				

For safety standards see pages 94 & 95.

Section A-A
Ditch @ NW Corner

Scale: Vert 1" = 10'
Hori 1" = 20'

6" PVC, shall drain parking lot & Building into the existing swale.

Q = A (1.487 / 0.025) R^{2/3} S^{1/2}
Q = 3 (1.487 / 0.025) (4.48) (1.126)
Q = 10.1 cfs (capacity of existing swale)
(10.1 cfs vs 2.85 cfs from our site)

Fence @ E 395
A = 5.0
R = .448 (30/100)^{2/3} .448
S = .126 (1.6%)^{1/2}