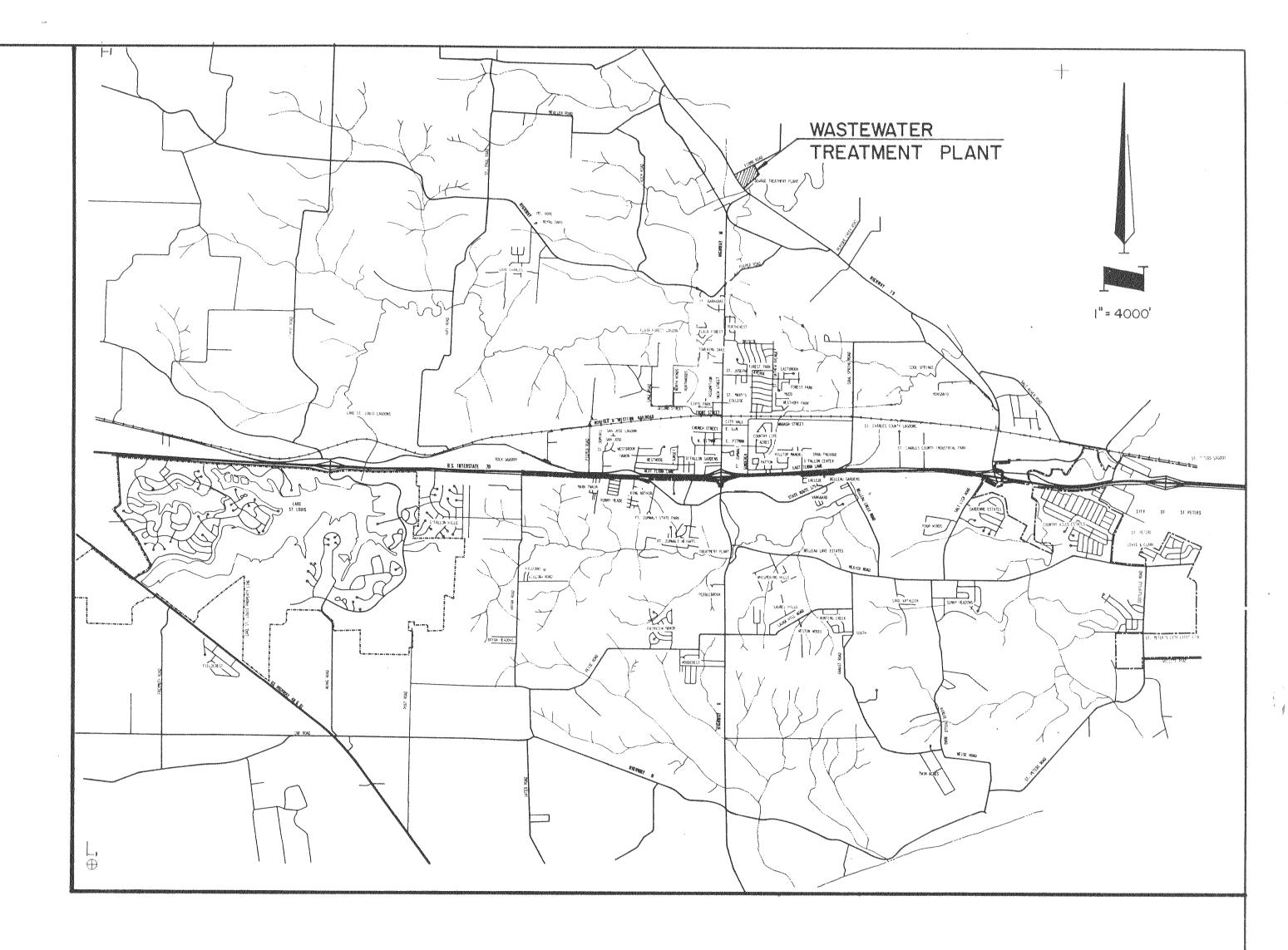
WASTEWATER TREATMENT PLANT

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36.	BIO-FILTER COMPLEX - CATWALK PLAN AND SECTIONS		<u>GE</u>	NERAL NOTES
37.	AERATION TANKS - PLAN	(1) The	e foundation for this project ha	as been designed in accordance with recommendations contained (12) The C
38.	AERATION TANKS - SECTIONS		a soils report by Soils Consult	
39.	AERATION TANKS - STRUCTURAL PLAN AND SECTIONS		chor bolts shall be located by m	Speci
40.	FINAL CLARIFIERS - PLAN	(3) All	l foundations shall be square ar	nd level. All c
41.	FINAL CLARIFIERS - SECTIONS		out below column base plates. G mpact grout beneath base plate.	rout shall be dry and stiff to prevent shrinkage. Thoroughly (See
42.	FINAL CLARIFIERS - STRUCTURAL PLAN AND SECTIONS		nforcing bars shall meet ASTM A	1) 615 Grade 60.
	MAIN OFFICE BUILDING - ELEVATIONS			ent, unless otherwise noted, shall be:
- 400. 44		(y y)	and the second second second is a second	The stricts of the moted, shall be.



PROJECT LOCATION MAP

- inkage. Thoroughly
- (6) Concrete protection and reinforcement, unless otherwise noted, shall be:

Cast against and permanently exposed to Exposed to earth or weather:

- 46. MAIN OFFICE BUILDING OPERATING FLOOR FRAMING PLAN 47. MAIN OFFICE BUILDING - ROOF PLAN AND ROOF FRAMING PLAN
- 48. MAIN OFFICE BUILDING TYPICAL WALL SECTIONS
- 49. MAIN OFFICE BUILDING TYPICAL WALL SECTIONS

44. MAIN OFFICE BUILDING - OPERATING FLOOR PLAN

45. MAIN OFFICE BUILDING - FOUNDATION PLAN

- 50. MAIN OFFICE BUILDING TYPICAL WALL SECTIONS
- 51. THICKENER / AEROBIC DIGESTER MODIFICATION PLAN
- 52. THICKENER / AEROBIC DIGESTER MODIFICATION SECTION
- 53. DOOR SCHEDULE
- 54. INTERIOR FINISH AND GATE SCHEDULES
- 55. FIRMA ROAD PLAN AND PROFILE
- 56. FIRMA ROAD CROSS SECTIONS

earth **** 3.0011 #6 through #18 ---- 2.00" #5 and Smaller ----- 1.50" Not exposed to weather or in contact with earth ----- 0.75"

- (7) Bars marked continuous and vertical reinforcing, not otherwise noted, shall be lapped 30 bar diameters at splices.
- (8) At corners of all walls and grade beams, supply corner bars 4'-0" long (min. 2' 0" in each direction or 30 bar diameters) in outside face of wall, matching size and spacing of horizontal bars. Where there are not vertical bars in outside face of wall, supply three (3) #4 vertical support bars for corner bars.
- (9) All bars are to be supported in the forms and spaced with wire bar supports per ACL "Manual of Standard Practice for Detailing Concrete Structures" (latest edition). Bars shall be securely wired per latest edition of CRSI Recommended Practice for Placing Reinforcing Bars. Accessories for exposed concrete shall be plastic or have plastic-tipped feet.
- (10) Welded wire fabric shall have end laps of one full mesh plus 2" between cross wires and ledge laps by overlapping longitudinal selvage wire 2" and wiring all laps securely together.
- (11) Welded wire fabric shall conform to ASTM A-185.

ndations contained: (12) The Contractor shall notify the Engineer of any discrepancies in dimensioning, detailing, or other items as shown on the plans or specified prior to proceeding with work relating to said discrepancies.

(13) The current edition of "Building Code Requirements for Reinforced Concrete, ACI-318", is hereby made a part of this Specification and shall have the same effect as if it were repeated herein.

All concrete shall be classified as Class "A", Class """ or Class "C". Otheroth characteristics shall be as follows: (See specifications for mix design)

1) Class A Concrete -- 3500 psi 0 28 days* 25 Y psi 3 7 days 2) - Slass 8 Concrete -- 3000 psi 9 20 days* 2000 psi @ 7 days 3) - Class C Concrete -- 4100 psi @ 28 days* 3000 psi 0 7 days

- *23 day average concrete test strength values chall be 115% of 25 may strength shown above.

Class 3 concrete shall be used for Mair Office Rullding Overating Floor slat. Class 10% concrete shall be used for a precast concrete piling. All remaining concrete shall to Class A.

- (\$4) to aluminum items shall be imbedded in any concrete.
- (15) Expansion joints in masonry construction shall be as shown
- (16) All structural steel shall conform to the following:
 - Structural Tube Col. ASIM ASS? All other Structural and Miscellaneous Steel-ASTM A36.
 - All Structural Steel work shall conform to requirements of the current Standard Specifications of the American Institute of Steel Construction. All holts for structural steel connections shall conform to ASTM A325. All anchor bolts shall conform to ASTM A307. Fabricators to detail connections not specifically shown - fully develop critical

load of member being connected. Shop drawings shall be submitted to the Engineer for approval in accordance with

- (17) Welding shall conform to latest publications of applicable codes set forth by the American Welding Societ. Welding electrodes shall be E70XX Electrodes. Velds not shown shall be 1/4 min.
- (18) Steel joists shall be of the size and series shown on the framing clans and shall conform to requirements set forth by the Steel Joist Institute. Alterations to joist spacing and locations of mechanical and electrical equipment shall be coordinated with and approved by the Engineer. Joists are to be welded to structural steel beans with 3/10" x 1 1/2" long fillet welds each side of joist chord typ. except at expansion joints or where shown otherwise.

the specifications. All structural steel is to receive one coat of approved primer, minimum.

UTILITY OWNERSHIPS

Gas Water Sewer	O'Fallon Gas Service Company St. Charles Gas Company O'Fallon City Hall	272-6231 724-4300 272-6244
Power & Light	Missouri Edison Company	272-6203
Telephone	Continental Telephone Company Southwestern Bell	327-5111 343-9531
State Highway Department	Missouri State Highway Commission	966-3800

EPA PROJECT NO. C291090



OFFICES: SUITE 305-A FAIRWAY OFFICE CENTER 4210 JOHNSON DRIVE / SHAWNEE MISSION / KANSAS 66205 1100 CITY CENTER SQUARE 1100 MAIN / KANSAS CITY / MISSOURI 64105

SUITE 134 LAKESIDE PLAZA II 6700 CORPORATE DRIVE / KANSAS CITY / MISSOURI 64120 WASTE WATER TREATMENT

PLANT EXPANSION INDEX OF DRAWINGS AND LOCATION MAPS

GITY OF O'FALLON, MISSOURI CHECKED BY: W.A.C. DESIGNED BY: W.C.C. J.L.S. DRAWN BY: JOHN

JOB NO. 79-2065 ^{ATE} July 30,1981 SCALE AS SHOWN NO. 2 OF 88

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