

REVISED - 03-10-00 CITY & DCSD COMMENTS
 REVISED - 04-07-00 CITY COMMENTS
 REVISED - 04-28-00 CITY COMMENTS
 AS-BUILTS - 07-20-00

SITE PLAN
AVONDALE HEIGHTS
Phase Four - Plat Five
 January 2000 95-7230M

PROPERTY N/F OF
 KAPLAN LUMBER CO., INC.
 BOOK 1413 PAGE 264
 PARCEL 5

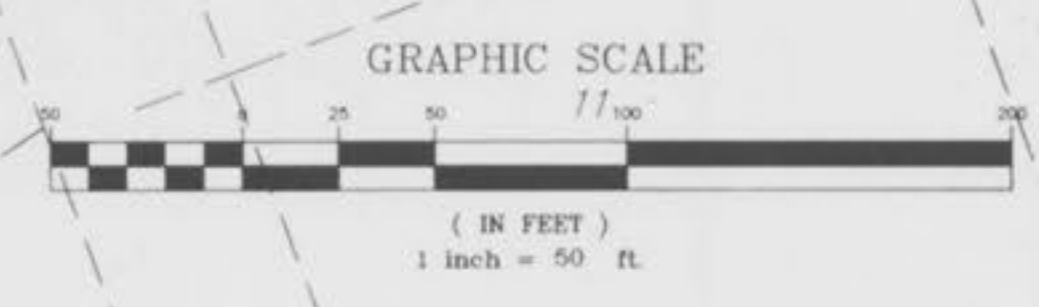
THE ENCLAVE AT
 DARDENNE FARMS
 P.B.29 PG. 142

THE ENCLAVE AT
 DARDENNE FARMS
 P.B.29 PG. 142

PROPERTY N/F
 FRED J. LOEFFLER
 298/113

SIGN LEGEND

	STOP SIGN
	YIELD SIGN
	TEMPORARY NO OUTLET SIGN
	PERMANENT NO OUTLET SIGN
	NO PARKING THIS SIDE OF STREET SIGN



THE UNDERGROUND UTILITIES SHOWN HEREON WERE PLOTTED FROM AVAILABLE INFORMATION AND DO NOT NECESSARILY REFLECT THE ACTUAL EXISTENCE, NONEXISTENCE, SIZE, TYPE, NUMBER OR LOCATION OF THESE OR OTHER UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF ALL UNDERGROUND UTILITIES, SHOWN OR NOT SHOWN, AND SAID UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY GRADING, EXCAVATION OR CONSTRUCTION OF IMPROVEMENTS. THESE PROVISIONS SHALL IN NO WAY ABSOLVE ANY PARTY FROM COMPLYING WITH THE UNDERGROUND FACILITY SAFETY AND DAMAGE PREVENTION ACT, CHAPTER 319, RSMc

AS-BUILTS ADDED JULY 2000

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 BOOK 1413 PAGE 268

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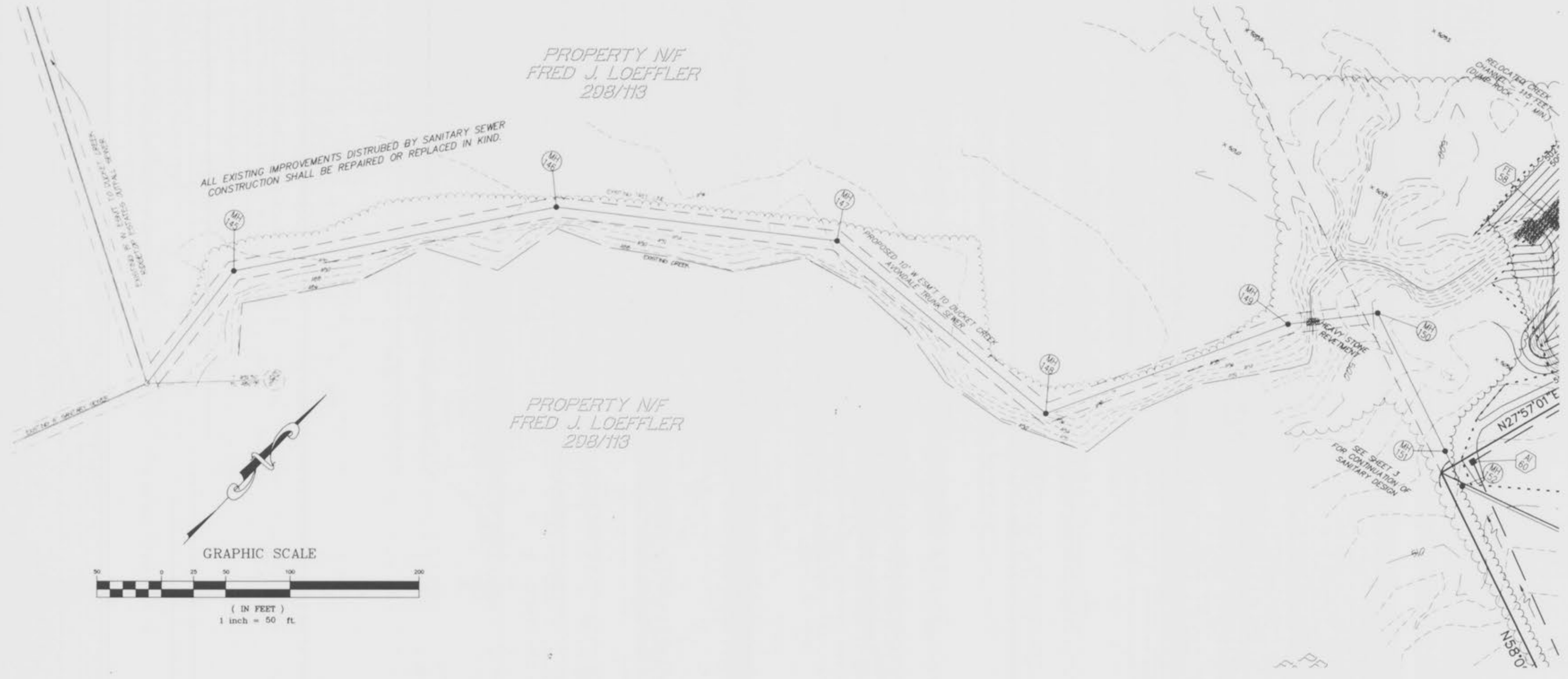
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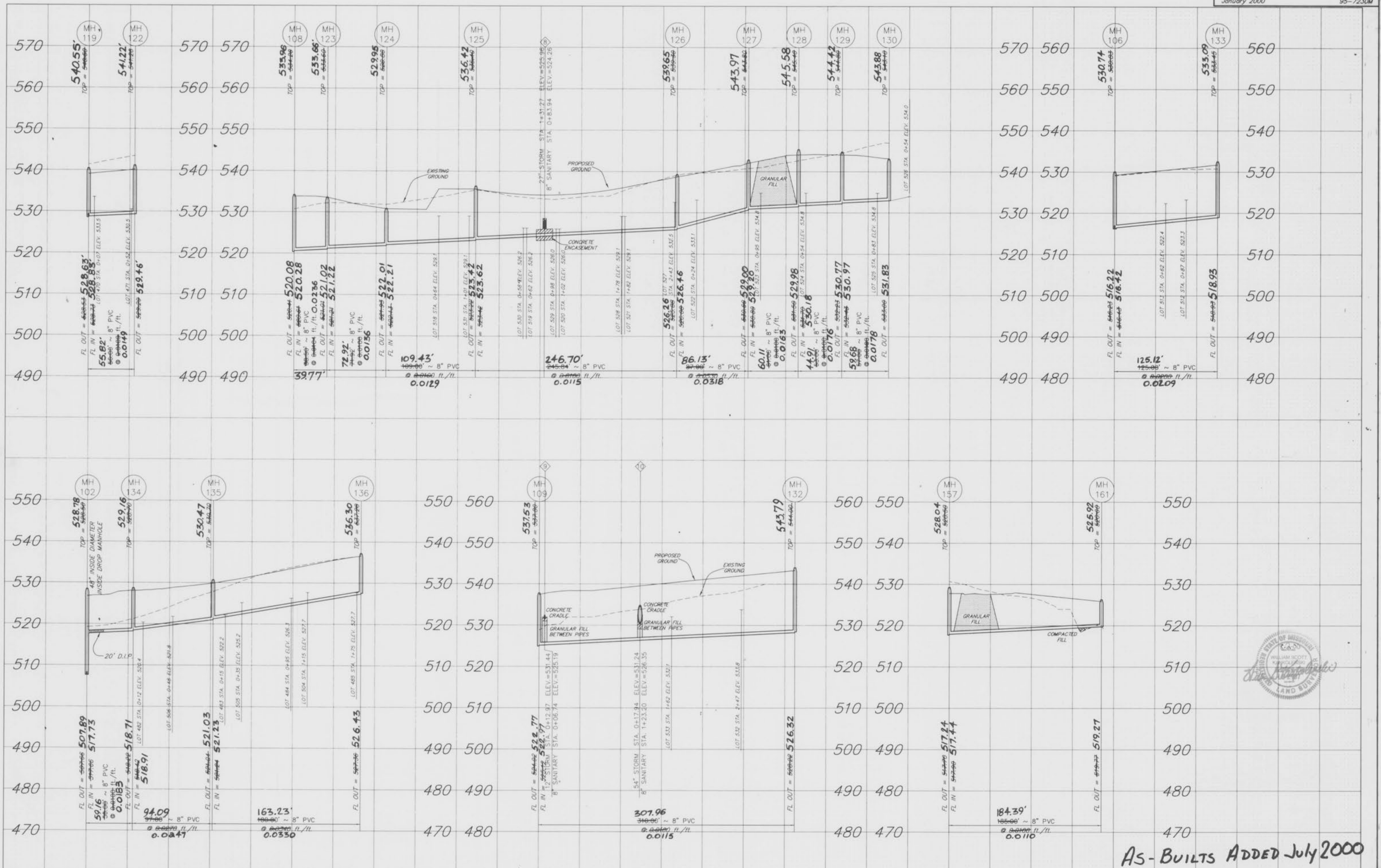


AS-BUILTS ADDED JULY 2000

NOTE:
 Where sanitary sewers cross under storm sewers at an elevation difference of 3' or greater, backfill with clean rock from the sanitary to the storm. For crossings with less than 3' difference, both pipes shall be concrete encased.

NOTE:
 All sanitary sewer lateral takeoff elevations have been designed for 9.0' basements in homes.

SCALE:
 VERTICAL = 1:10
 HORIZONTAL = 1:50

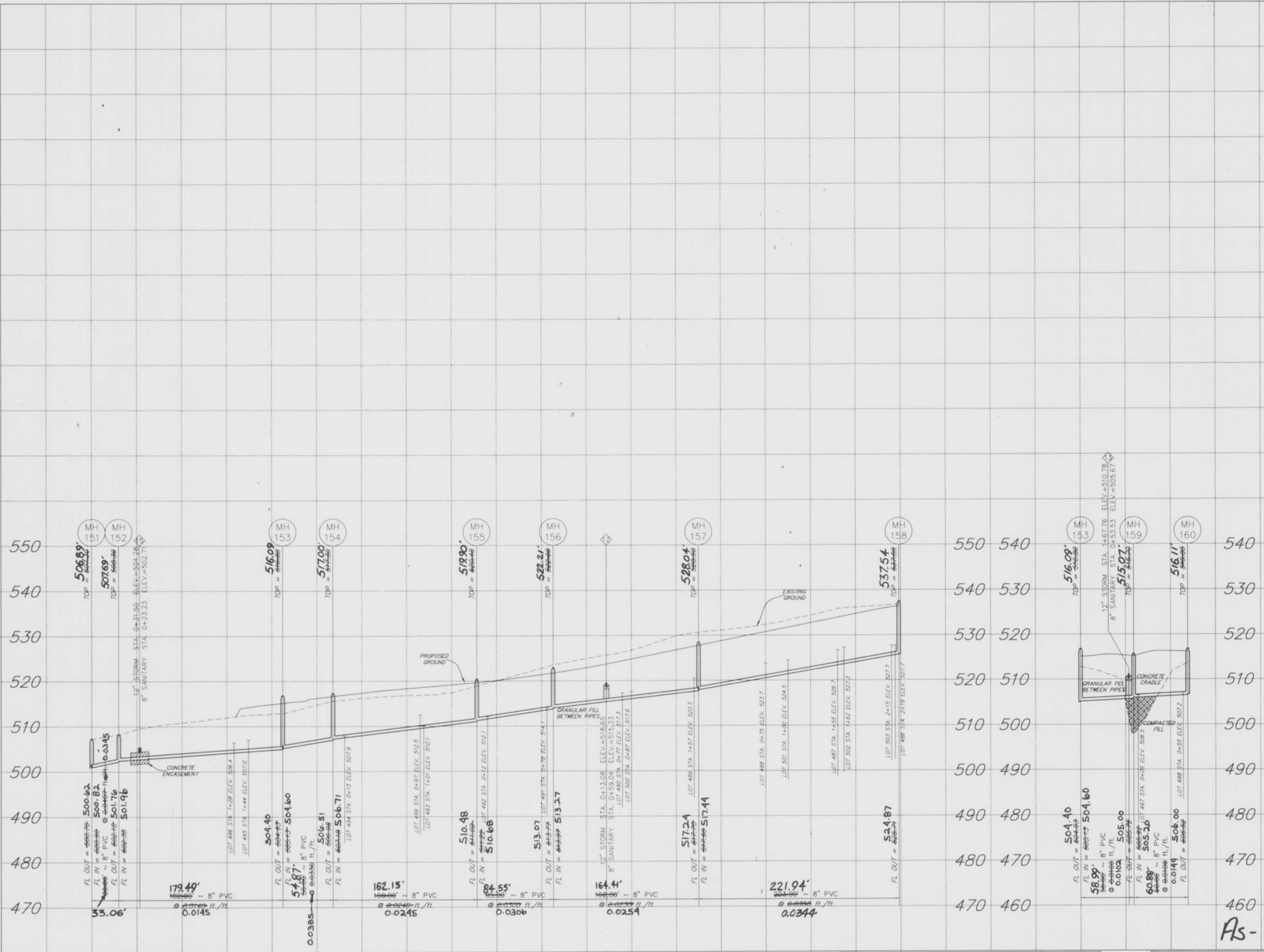


AS-BUILTS ADDED July 2000

NOTE:
 Where sanitary sewers cross under storm sewers at an elevation difference of 3' or greater, backfill with clean rock from the sanitary to the storm. For crossings with less than 3' difference, both pipes shall be concrete encased.

NOTE:
 All sanitary sewer lateral tailstack elevations have been designed for 9.0' basements in homes.

SCALE:
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 HORIZONTAL = 1:50



AS-BUILTS ADDED July 2000

NOTE:
 Where sanitary sewers cross under storm sewers at an elevation difference of 3' or greater, backfill with clean rock from the sanitary to the storm. For crossings with less than 3' difference, both pipes shall be concrete encased.

NOTE:
 All sanitary sewer lateral takeoff elevations have been designed for 9.0' basements in homes.

SCALE:
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 HORIZONTAL = 1:50

NOTE:
IF CONTRACTOR/DEVELOPER USES ALTERNATIVE HDPE PIPE, ALL SEWER CROSSINGS SHALL BE CONCRETE ENCASED.
ALL FLARED END SECTIONS AND INLET STRUCTURES WILL BE CONCRETE.

REVISED - 03-10-00 CITY & DCSD COMMENTS
REVISED - 04-07-00 CITY COMMENTS
REVISED - 04-25-00 CITY COMMENTS

STORM PROFILES
AVONDALE HEIGHTS
Phase Four - Plat Five
January 2000 95-7230M



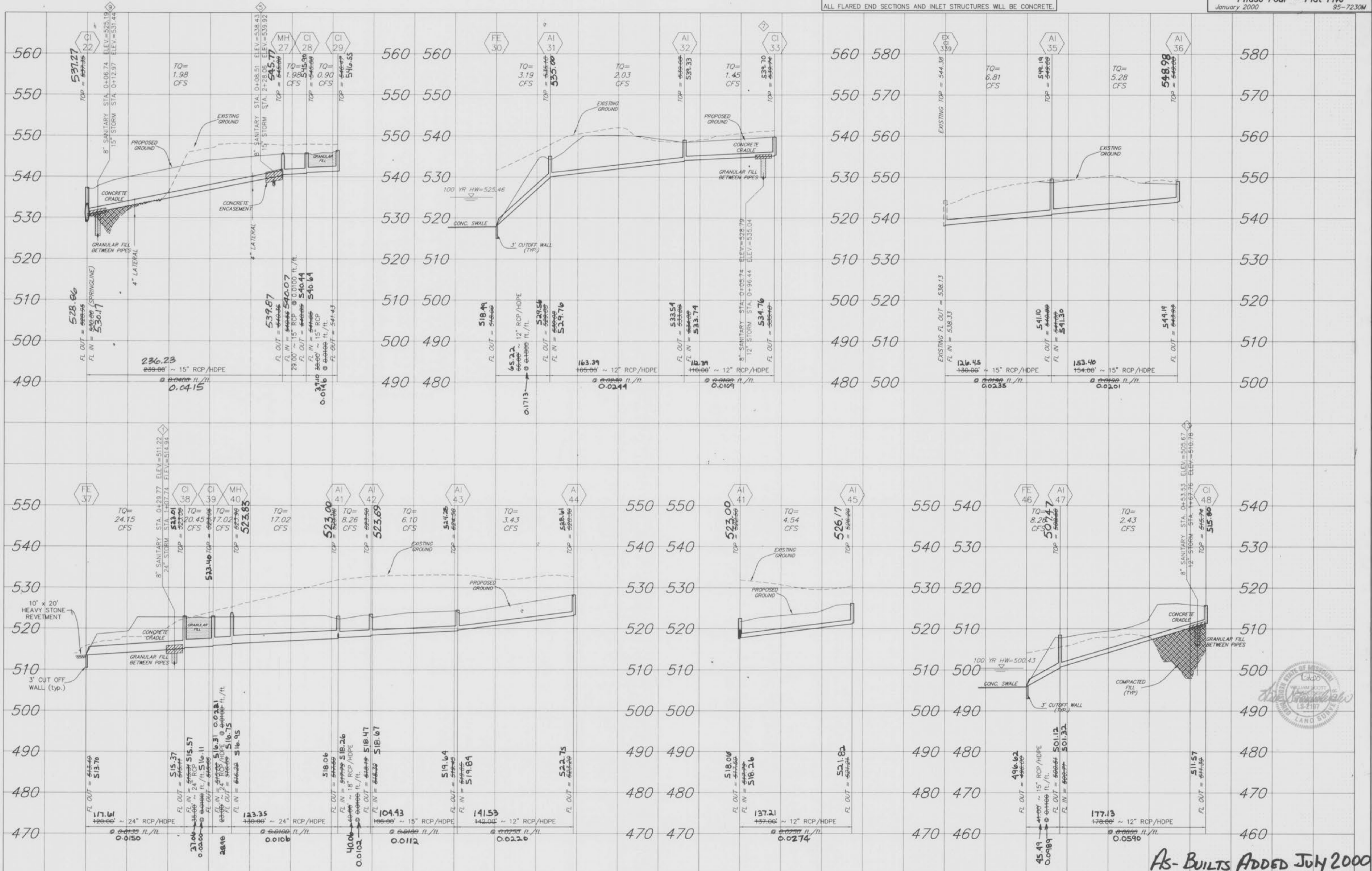
AS-BUILTS ADDED JULY 2000

NOTE:
Where sanitary sewers cross under storm sewers at an elevation difference of 3' or greater, backfill with clean rock from the sanitary to the storm. For crossings with less than 3' difference, both pipes shall be concrete encased.

SCALE:
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 REVISED - 04-25-00 CITY COMMENTS



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AS-BUILTS ADDED JULY 2000

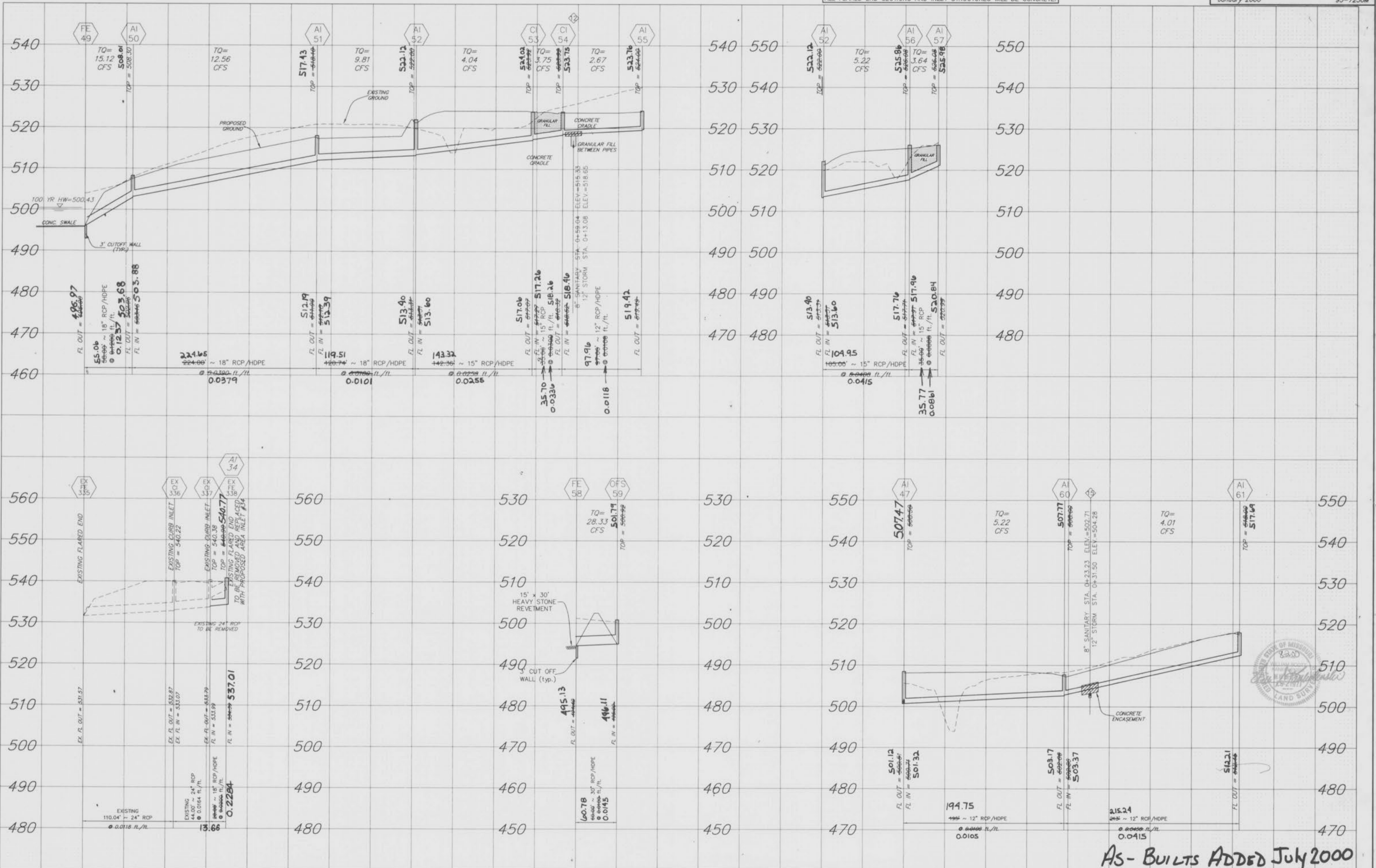
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STORM PROFILES
AVONDALE HEIGHTS
 Phase Four - Plat Five
 January 2000 95-7230M



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AS-BUILTS ADDED JULY 2000

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STORM SEWER HYDRAULICS

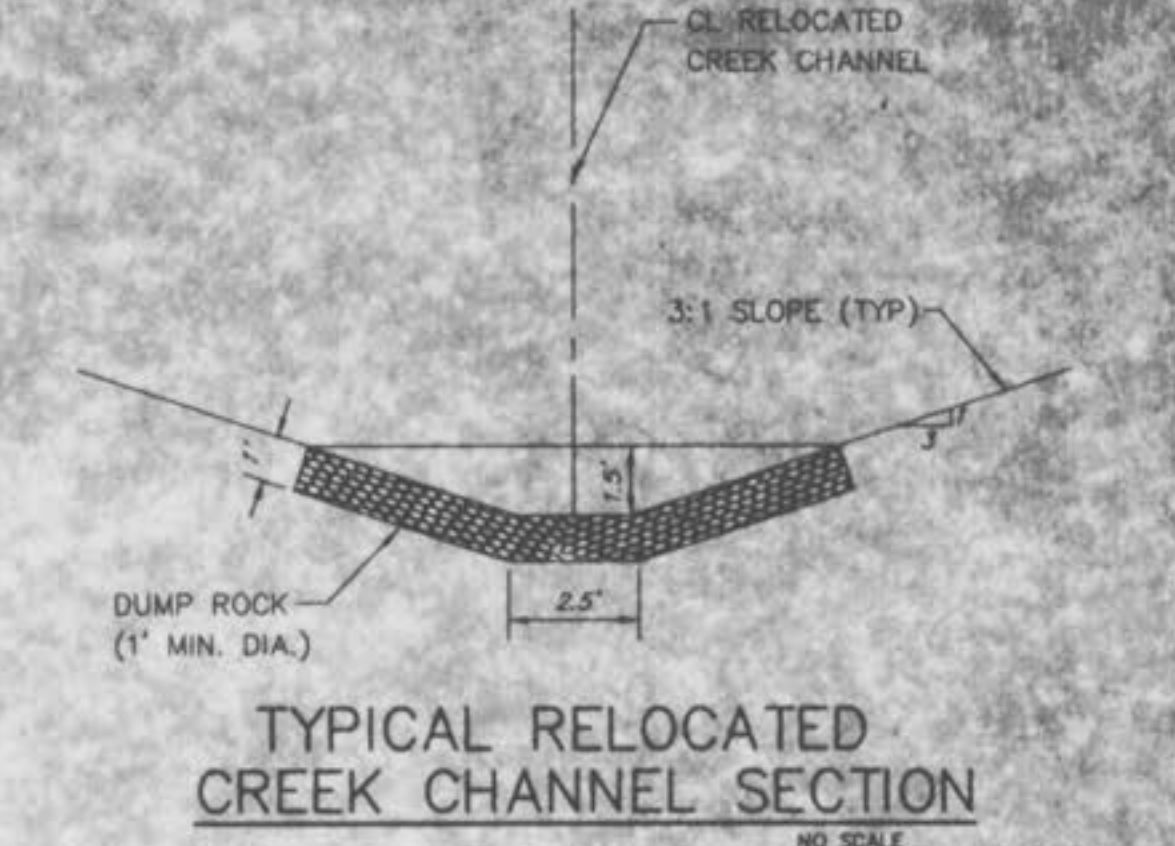
Job Name: AVONDALE HEIGHTS PLAT FIVE
 Prepared by: JMS
 Checked by: RF
 Sheet No: 2

Date: 12/17/99
 Revised: 03/07/00

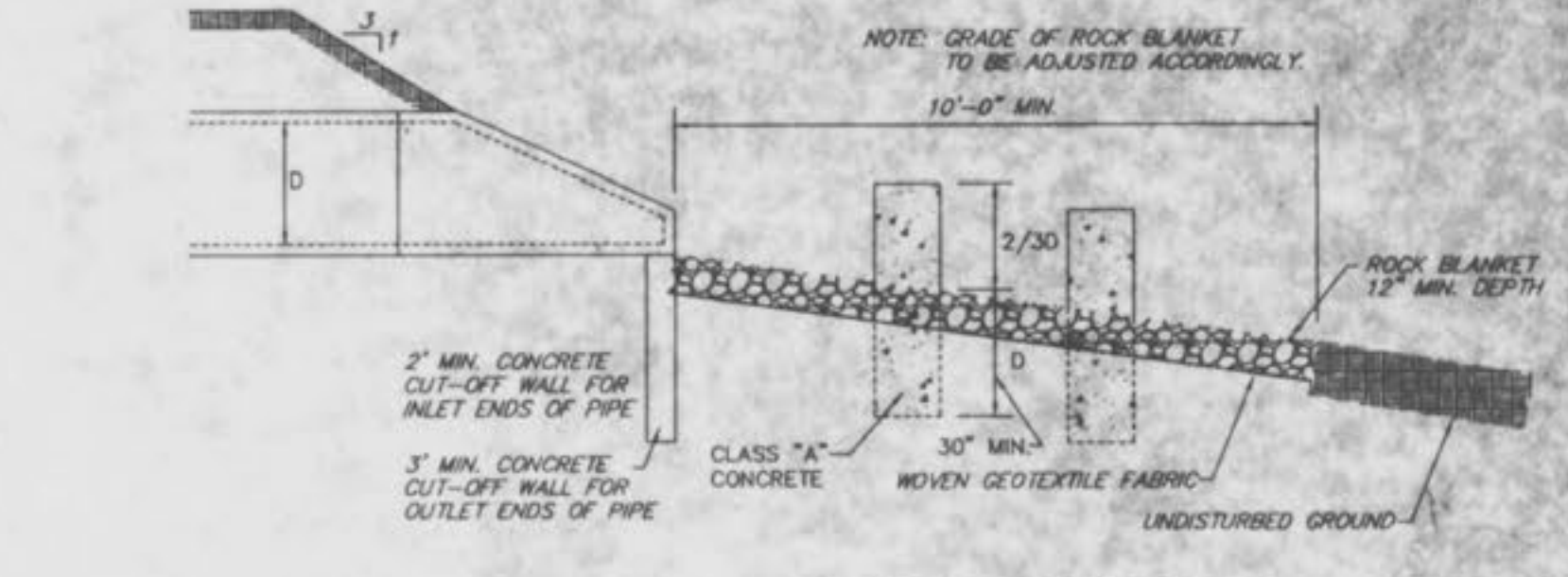
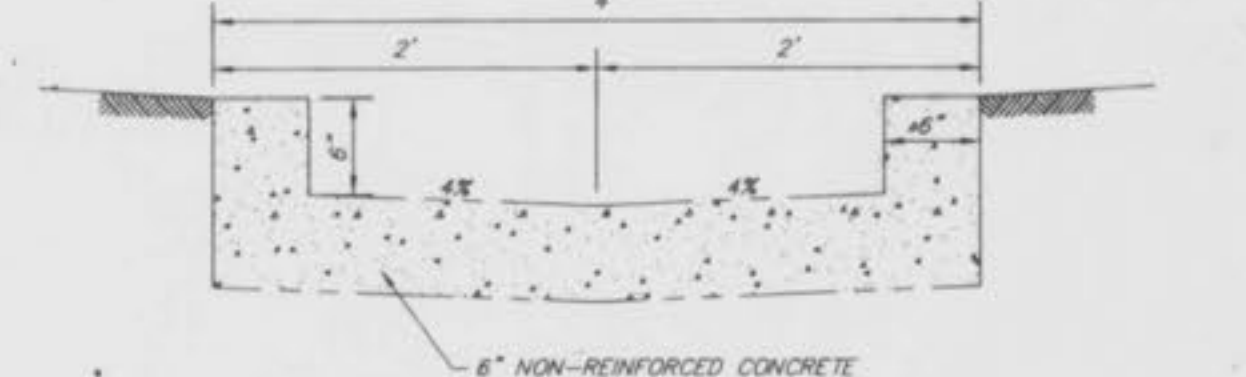
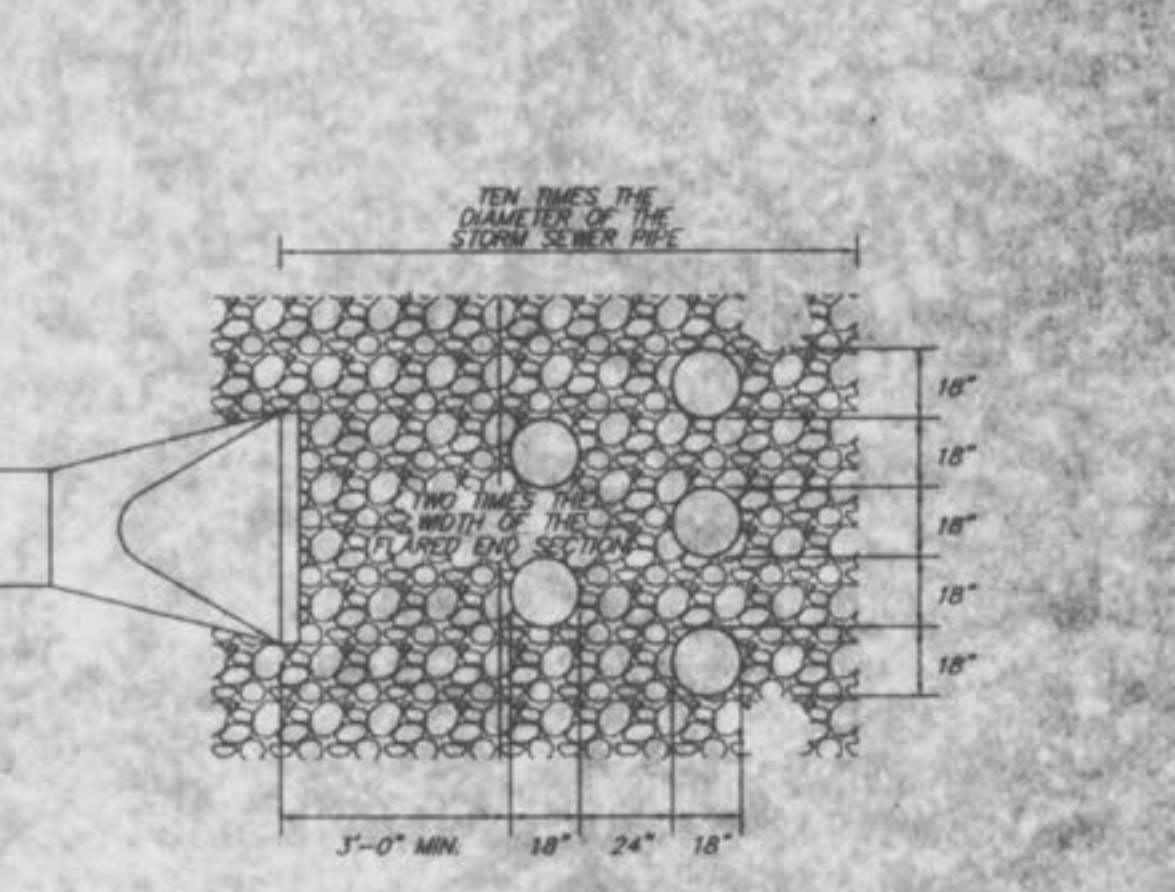
Str. Type	Upper Lower	Len. in	Q c.f.s.	Total Q c.f.s.	Pipe Size in.	Const. in.	V in		V in	Q x V	Hyd. Grade	Flow Line Elevation		Top of Structure Elevation	Free Board	Hydraulic Grade Line		Frict. Loss	Curve Loss	Junc. Loss	Entr. Loss	Angle Loss (5°)	Turn Loss	Capacity c.f.s.	Q/Cap.	Normal Depth ft.	
							Upper	Lower				Upper	Lower			Upper	Lower										
T	57	56	35	3.64	3.64	15	8.802	2.97	0.14	0.50	0.325	520.99	517.91	526.08	526.08	4.79	521.28	519.16	0.11	0.25	0.14	75	0.20	19.16	0.19	0.36	
AI	56	52	105	1.58	5.22	15	4.002	4.25	0.28	1.47	0.652	517.71	513.51	526.08	526.08	6.52	518.28	515.50	0.69								



HYDRAULICS / DETAILS
 AVONDALE HEIGHTS
 Phase Four - Plat Five
 January 2000 67-72704

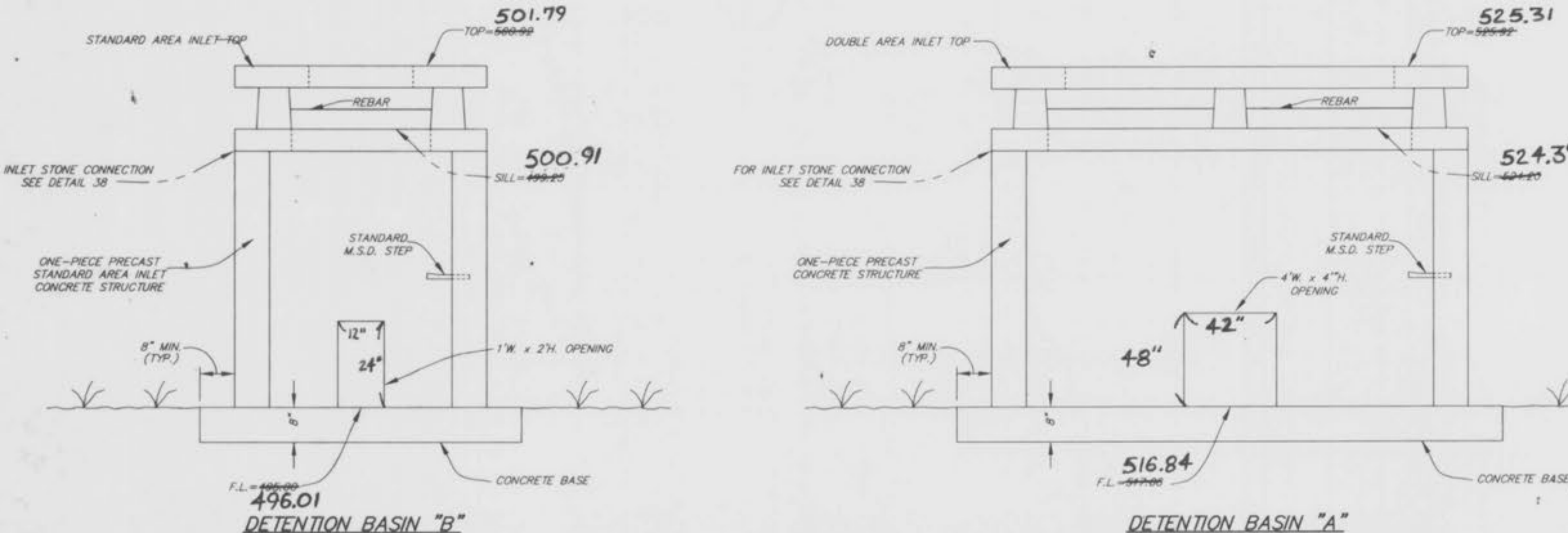


Structure	Street Grade	Capacity	Inflow	Bypass
CI 5	Low	4.00	1.72	-
CI 6	Low	4.00	0.90	-
CI 10	Low	4.00	1.69	-
CI 11	Low	4.00	2.19	-
CI 16	2%	1.90	0.16	-
CI 19	5%	0.85	0.84	-
CI 20	5%	0.85	0.16	-
CI 21	2%	1.90	0.45	-
CI 22	2%	1.90	0.34	-
CI 23	2%	1.90	0.58	-
CI 28	4%	1.25	1.08	-
CI 29	4%	1.25	0.90	-
CI 33	4%	1.25	0.29	-
CI 34	4%	1.25	1.08	-

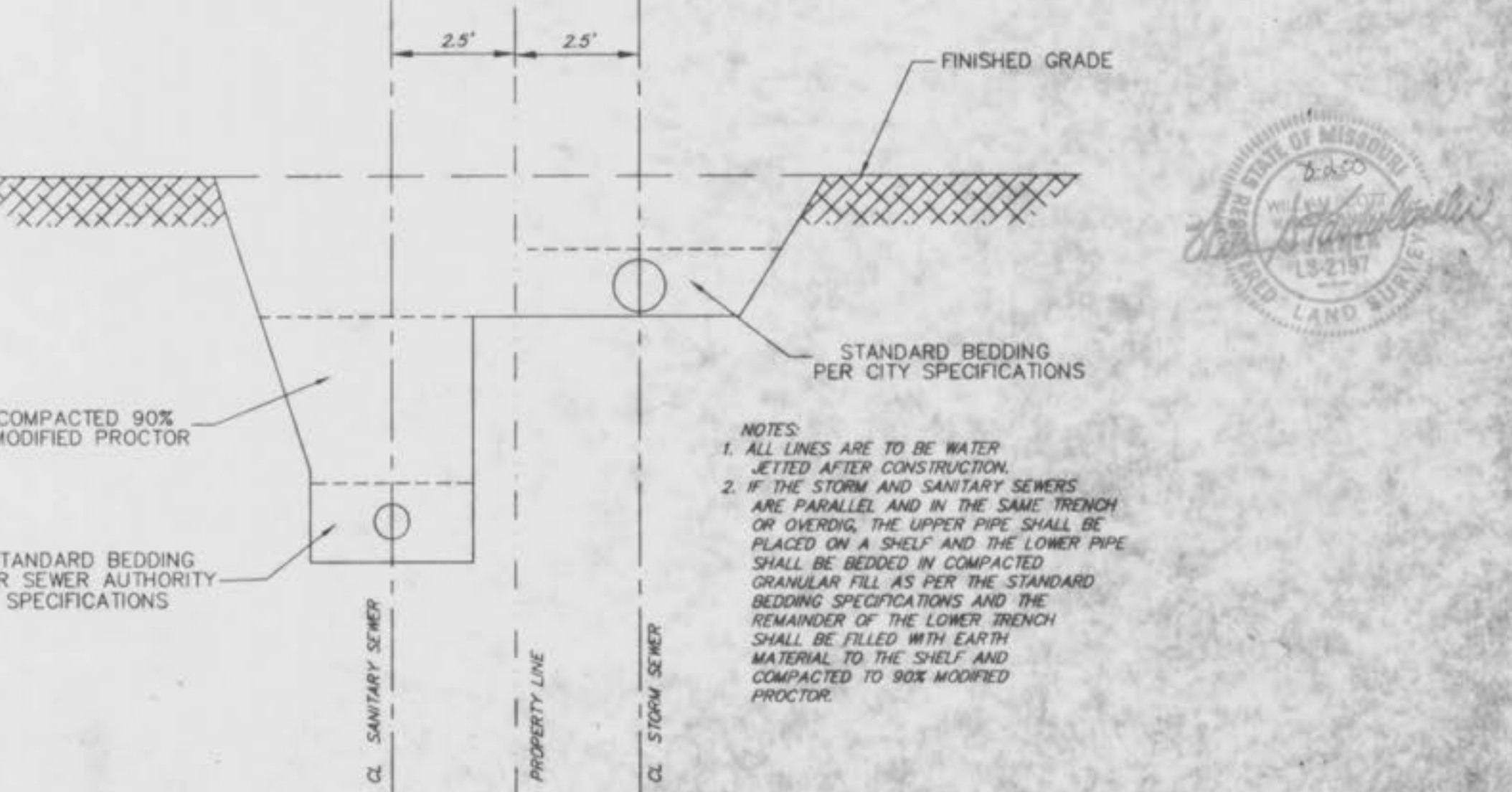


NOTES:
 1. A MINIMUM 1% SLOPE SHALL BE PROVIDED.
 2. CONSTRUCTION JOINTS SHALL BE PROVIDED EVERY 20 FEET.
 3. EXPANSION JOINTS SHALL BE PROVIDED EVERY 100 FEET.

NOTE: AI=Area Inlet, M=Manhole, T=Terrain, CI=Curb Inlet, DCI=Double Curb Inlet, SCL=Skewed Curb Inlet, TP=Tangent Point, EP=End of Pipe, OS=Outfall Structure
 n=0.013 For RCP, 0.024 For CMP. For Drainage Areas, P.I. & Bypass, See Drainage Area Map.



(NOTE: NO BRICK ALLOWED) NOT TO SCALE



(FOR PARALLEL LINES) NO SCALE

As-BUILTS ADDED July 2000