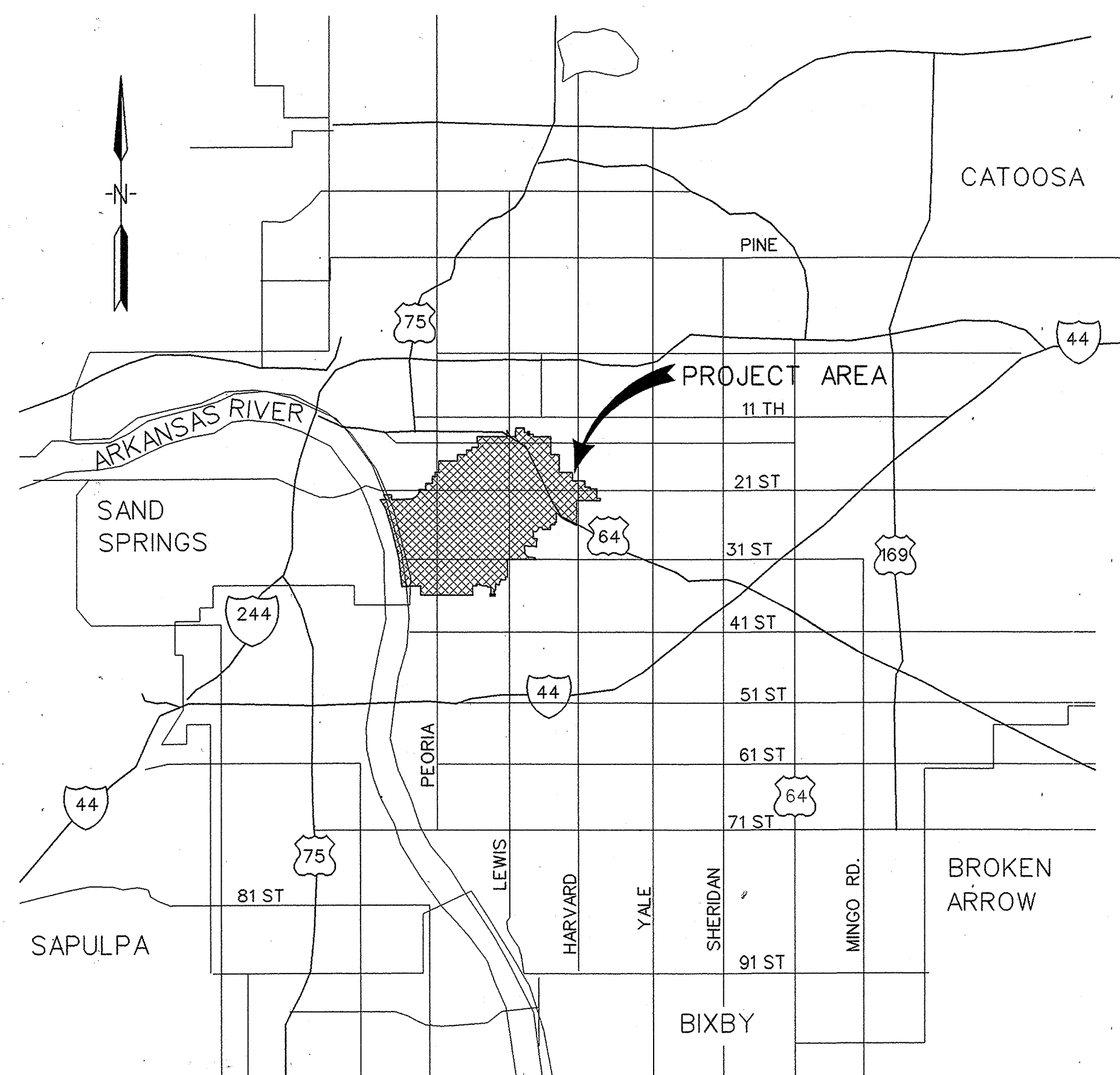


TULSA METROPOLITAN UTILITY AUTHORITY

PROJECT NO. ES 96-07

Contract No.1
MANHOLE REHABILITATION
TULSA SOUTHSIDE PLANT INFLUENT
CROW CREEK BASIN REHABILITATION
SANITARY SEWER IMPROVEMENTS
ORF PROJECT NO. C-401211-11



LOCATION MAP

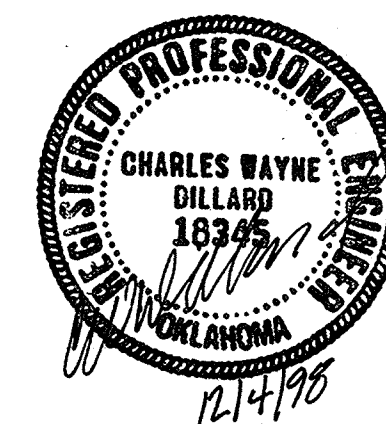
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APPROVED BY:

Mr. Charles Hardt 12/15/98
MR. CHARLES HARDT, P.E. DATE
DIRECTOR OF PUBLIC WORKS

RECOMMENDED BY:

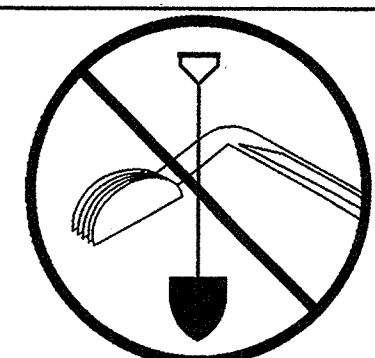
MR. A.J. HAMLETT JR., P.E. DATE
DEPUTY DIRECTOR OF ENGINEERING SERVICES



ENGINEERS
ARCHITECTS
CONSULTANTS

**Burns
&
McDonnell**

6450 SOUTH LEWIS AVENUE
SUITE 220
TULSA, OKLAHOMA 74136

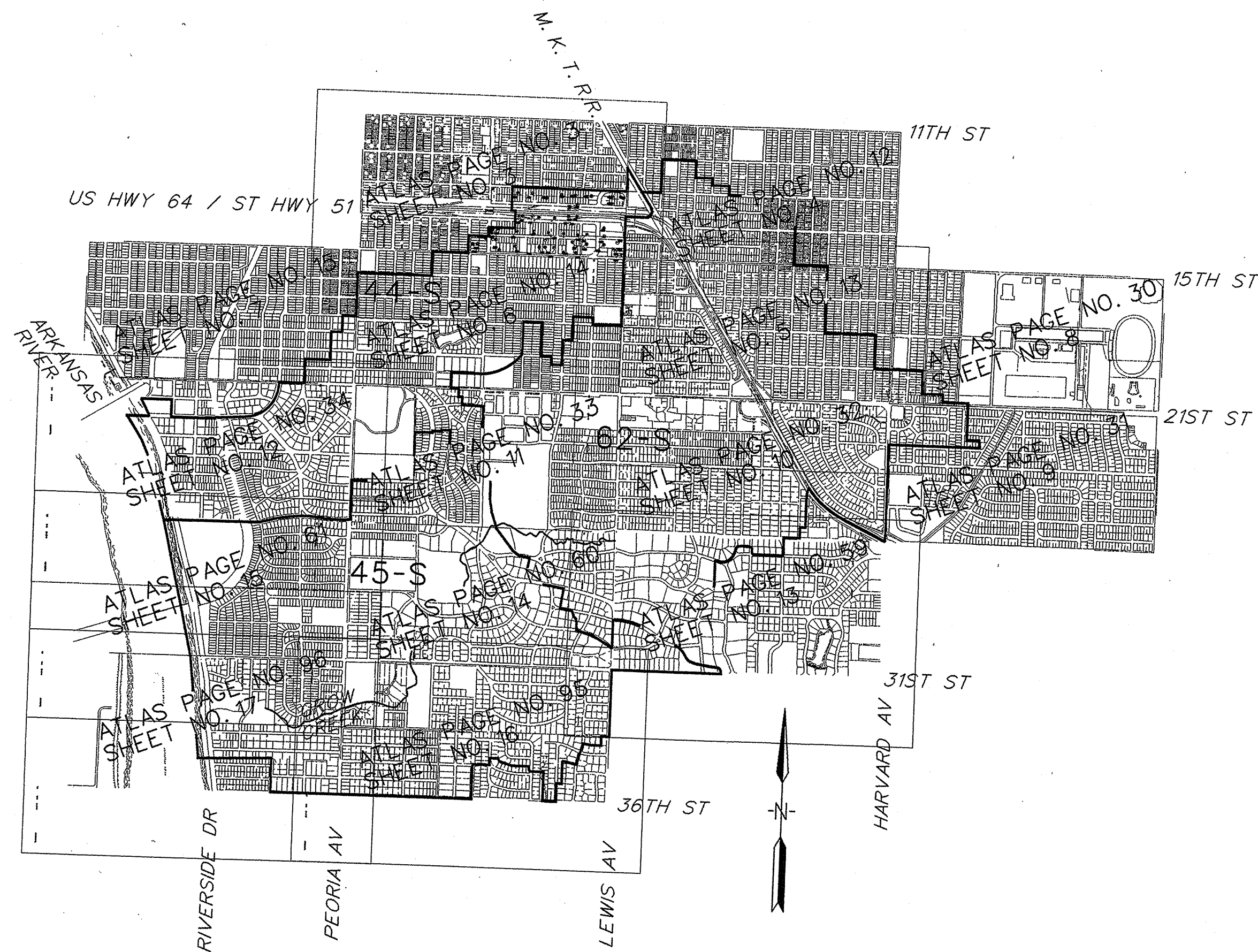


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YOU DIG...

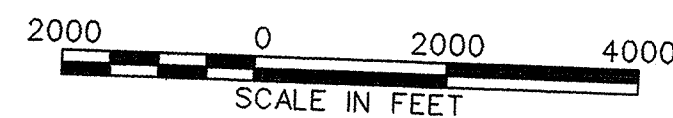
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CALL OKIE

SHEET 1 OF 33 SHEETS



VICINITY MAP

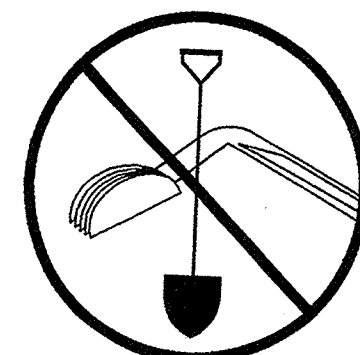
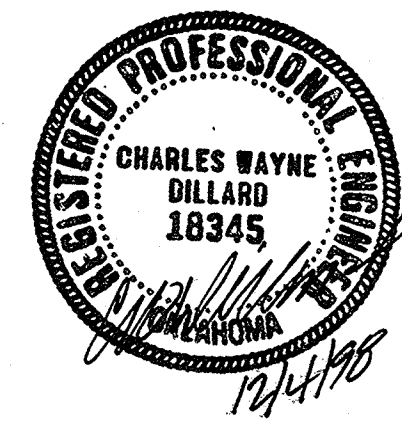


MANHOLE REHABILITATION GENERAL NOTES

1. ALL MANHOLES, PIPE SIZES OBSERVATIONS, DEFECTS, UTILITIES (ABOVE AND BELOW GROUND) AND THEIR LOCATIONS ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE TO THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL INFORMATION BEFORE ANY CONSTRUCTION MATERIALS ARE ORDERED. UTILITIES DAMAGED THROUGH THE NEGLIGENCE OF THE CONTRACTOR TO OBTAIN THE LOCATION OF SAME SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
2. THE CONTRACTOR SHALL HAVE, AT A MINIMUM, ONE (1) EXECUTED COPY OF THE CONTRACT DOCUMENTS AT THE JOB SITE AT ALL TIMES.
3. DRIVEWAYS, SIDEWALKS, FENCES, SHRUBS, ORNAMENTAL AND FRUIT TREES AND OTHER AREAS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THAT EXISTING BEFORE DAMAGE OCCURRED.
4. THE CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION STAKING FOR THE PROJECT AND SUCH STAKING SHALL BE CONSIDERED SUBSIDIARY TO THE CONTRACT AMOUNT. ENGINEER TO BE PROVIDED WITH COPIES OF ALL SURVEY FIELD NOTES.
5. ALL UNSUITABLE MATERIALS REMOVED DURING TRENCHING AND EXCAVATION SHALL BE DISPOSED OF AT A SITE APPROVED BY THE OWNER. STOCKPILING OF EXCAVATED MATERIAL IN STREET OR ALLEY RIGHTS-OF-WAY MAY BE ALLOWED UPON APPROVAL BY THE OWNER.
6. SIDEWALKS, CURBS AND PAVEMENTS SHALL BE FINISHED TO MATCH EXISTING SURROUNDING SURFACES.

DRAWING INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	NOTES, DRAWING INDEX, VICINITY MAP
3	BASE SHEET (ATLAS PAGE 3)
4	BASE SHEET (ATLAS PAGE 12)
5	BASE SHEET (ATLAS PAGE 13)
6	BASE SHEET (ATLAS PAGE 14)
7	BASE SHEET (ATLAS PAGE 15)
8	BASE SHEET (ATLAS PAGE 30)
9	BASE SHEET (ATLAS PAGE 31)
10	BASE SHEET (ATLAS PAGE 32)
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13	BASE SHEET (ATLAS PAGE 59)
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17	BASE SHEET (ATLAS PAGE 96)
18	MANHOLE SCHEDULE - PLAN SHEET
19	MANHOLE SCHEDULE - PLAN SHEET
20	MANHOLE SCHEDULE - PLAN SHEET
21	MANHOLE SCHEDULE - PLAN SHEET
22	MANHOLE SCHEDULE - PLAN SHEET
23	MANHOLE SCHEDULE - PLAN SHEET
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28	MANHOLE SCHEDULE - PLAN SHEET
29	MANHOLE SCHEDULE - PLAN SHEET
30	MANHOLE SCHEDULE - PLAN SHEET
31	MANHOLE SCHEDULE - PLAN SHEET
32	MANHOLE SCHEDULE - PLAN SHEET
33	MANHOLE SCHEDULE - PLAN SHEET



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Contract No. 1 MANHOLE REHABILITATION			
TULSA SOUTHSIDE PLANT INFLUENT CROW CREEK BASIN REHABILITATION SANITARY SEWER IMPROVEMENTS			
TULSA METROPOLITAN UTILITY AUTHORITY PROJECT NO. ES 96-07			
PLANS AND ESTIMATES PREPARED BY: Burns & McDonnell			
REVISION	BY	DATE	APPROVED:
1	RAH	5/10/98	APPROVED: DATE SHEET 2 OF 33 SHEETS
2	VSM	5/9/98	
3	JH	2/28/98	
PROFILE SCALE:	FIELD MNGR.		
HORIZONTAL:	SECT. MNGR.	RS 12/11/98	
	PROJ. MNGR.	LSV 12/11/98	
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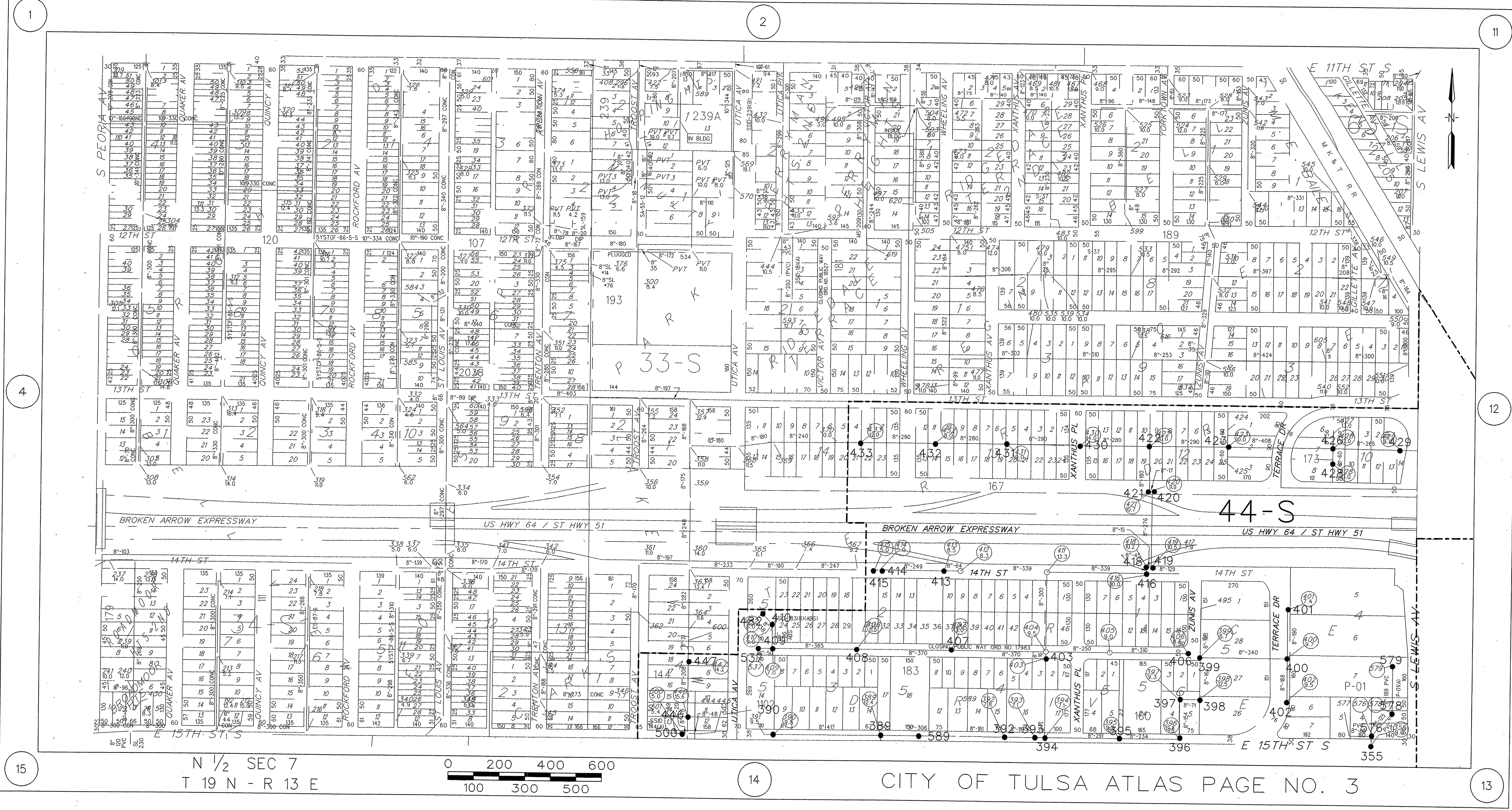
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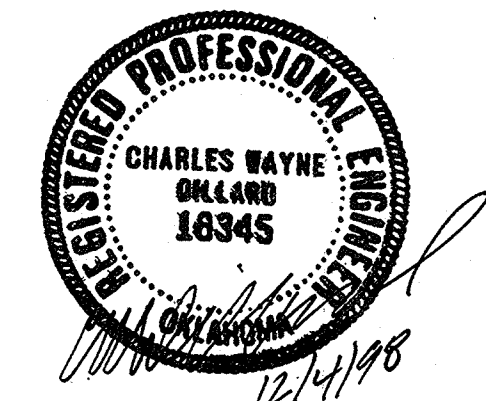
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44-S MAINTENANCE AREA

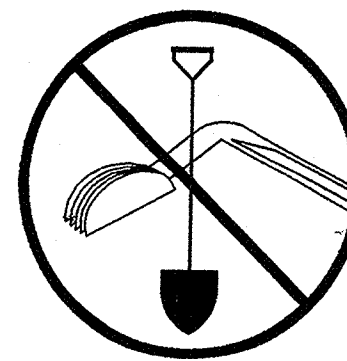
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● MANHOLE, REHABILITATE OR REPLACE

432 MANHOLE NUMBER



Contract No. 1 MANHOLE REHABILITATION			
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ATLAS PAGE NO:	3		
APPROVED:			
DATE			
SHEET 3 OF 33 SHEETS			



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FORWARD USE OF PRINT ON THIS DATE

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REORDER BY NUMBER 073AR
FORWARD USE OF PRINT ON THIS DATE

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FORWARD USE OF PRINT ON THIS DATE

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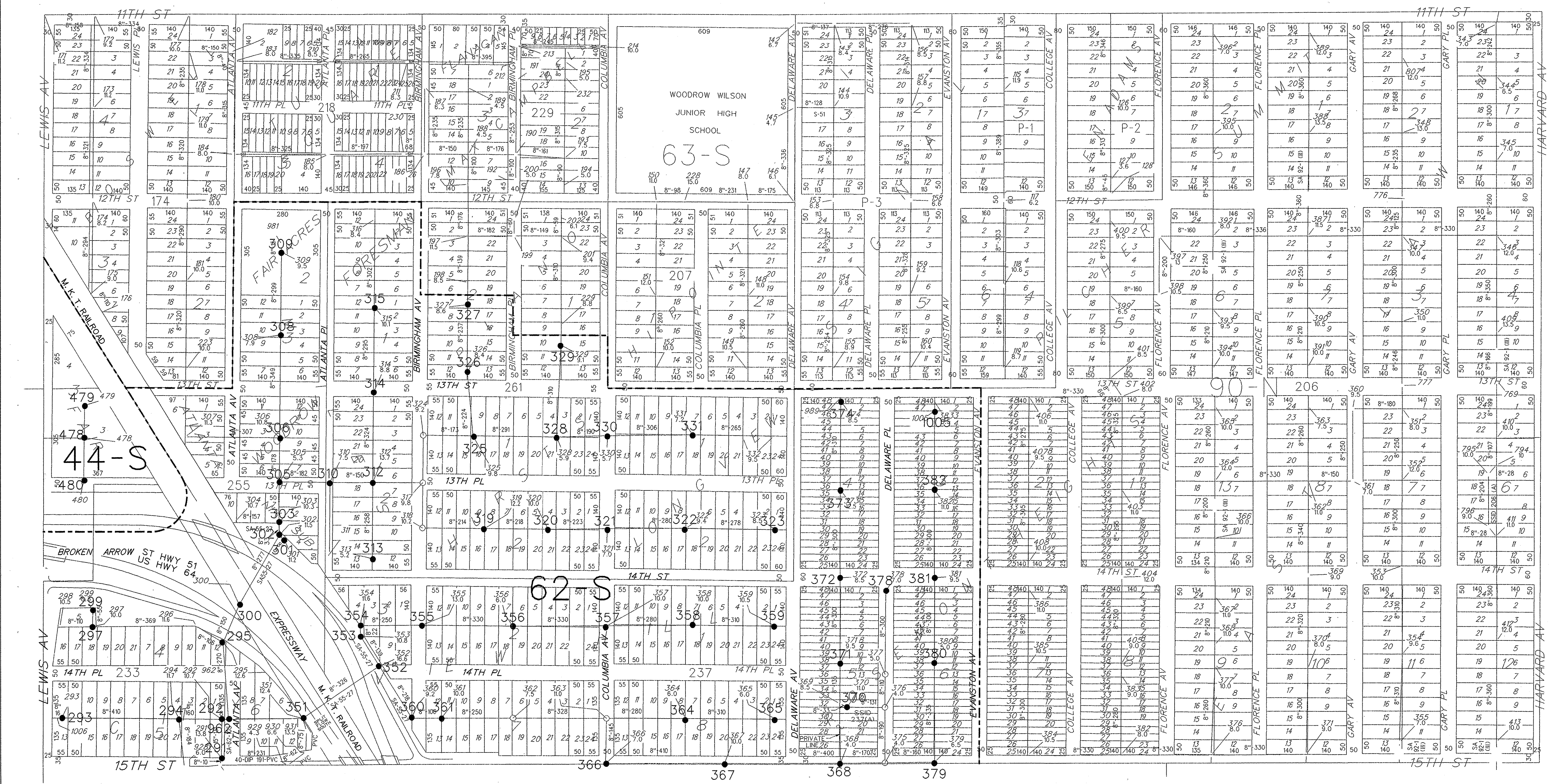
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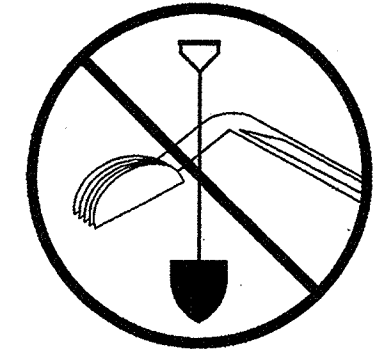
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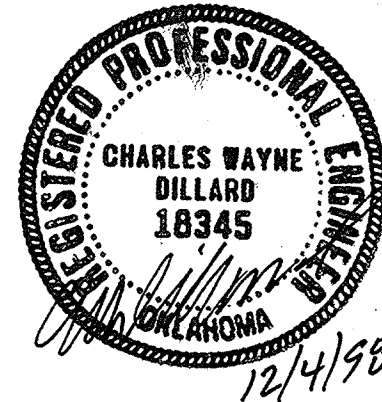
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TULSA METROPOLITAN UTILITY AUTHORITY PROJECT NO. ES 96-07			
PLANS AND ESTIMATES PREPARED BY: Burns & McDonnell			
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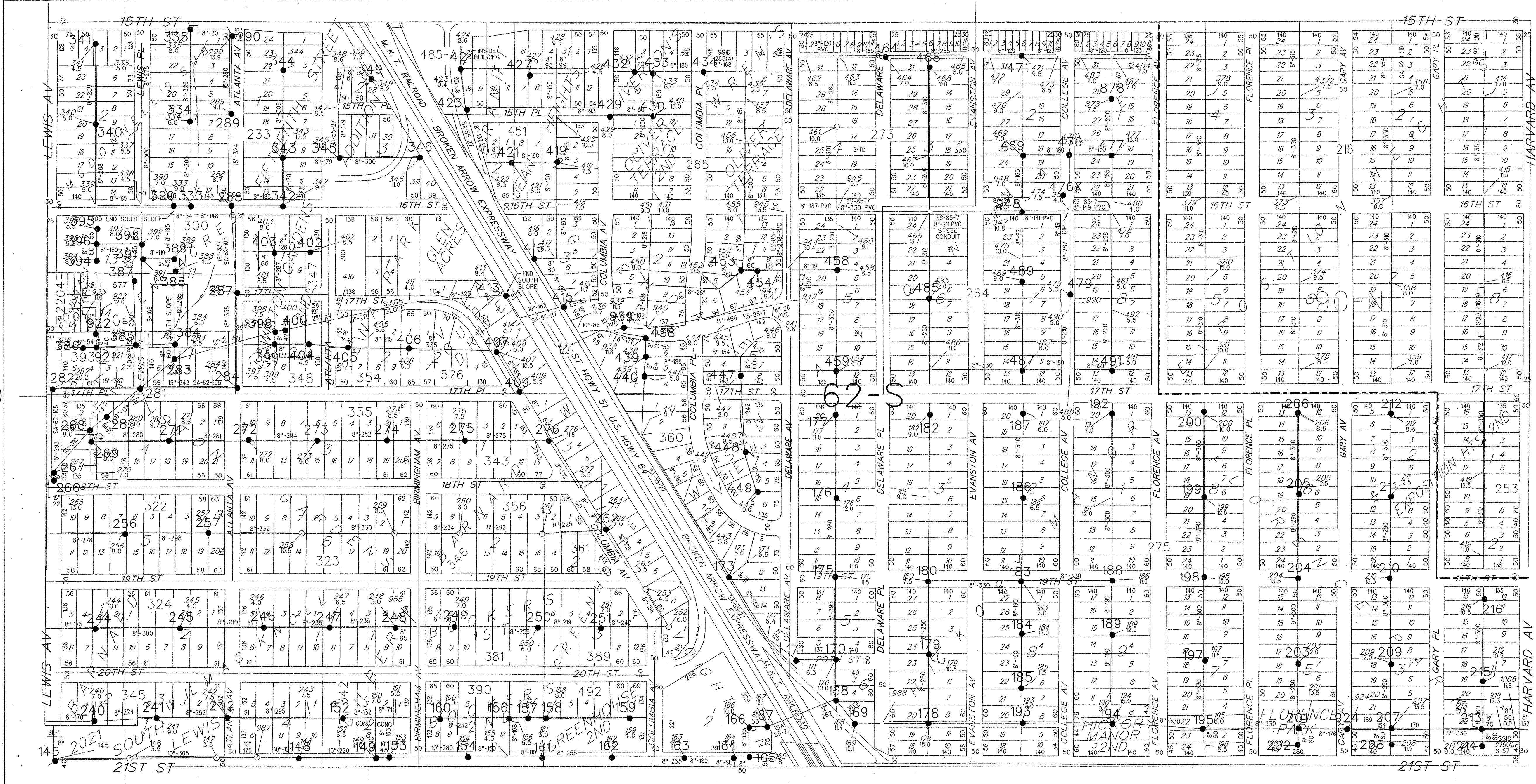
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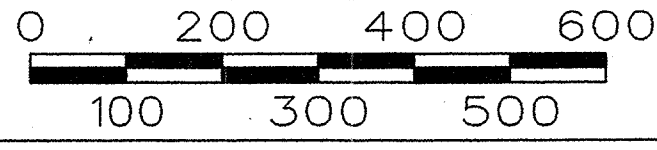
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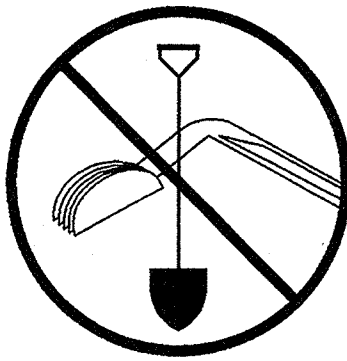
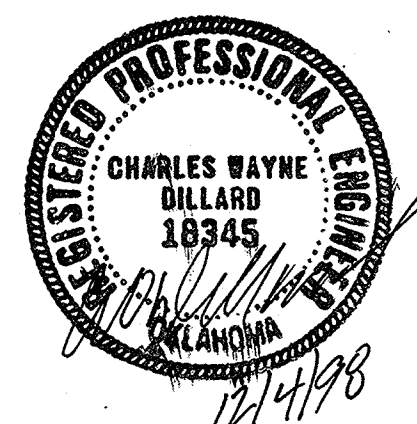
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CITY OF TULSA ATLAS PAGE NO. 13

LEGEND

- 44-S MAINTENANCE AREA
- MAINTENANCE AREA BOUNDARY
- MANHOLE, REHABILITATE OR REPLACE
- 432 MANHOLE NUMBER



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PLANS AND ESTIMATES PREPARED BY:	
Burns & McDonnell	

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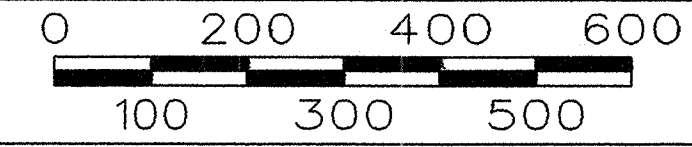
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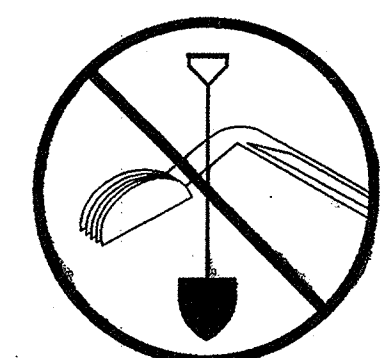
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● MANHOLE, REHABILITATE OR REPLACE

432 MANHOLE NUMBER



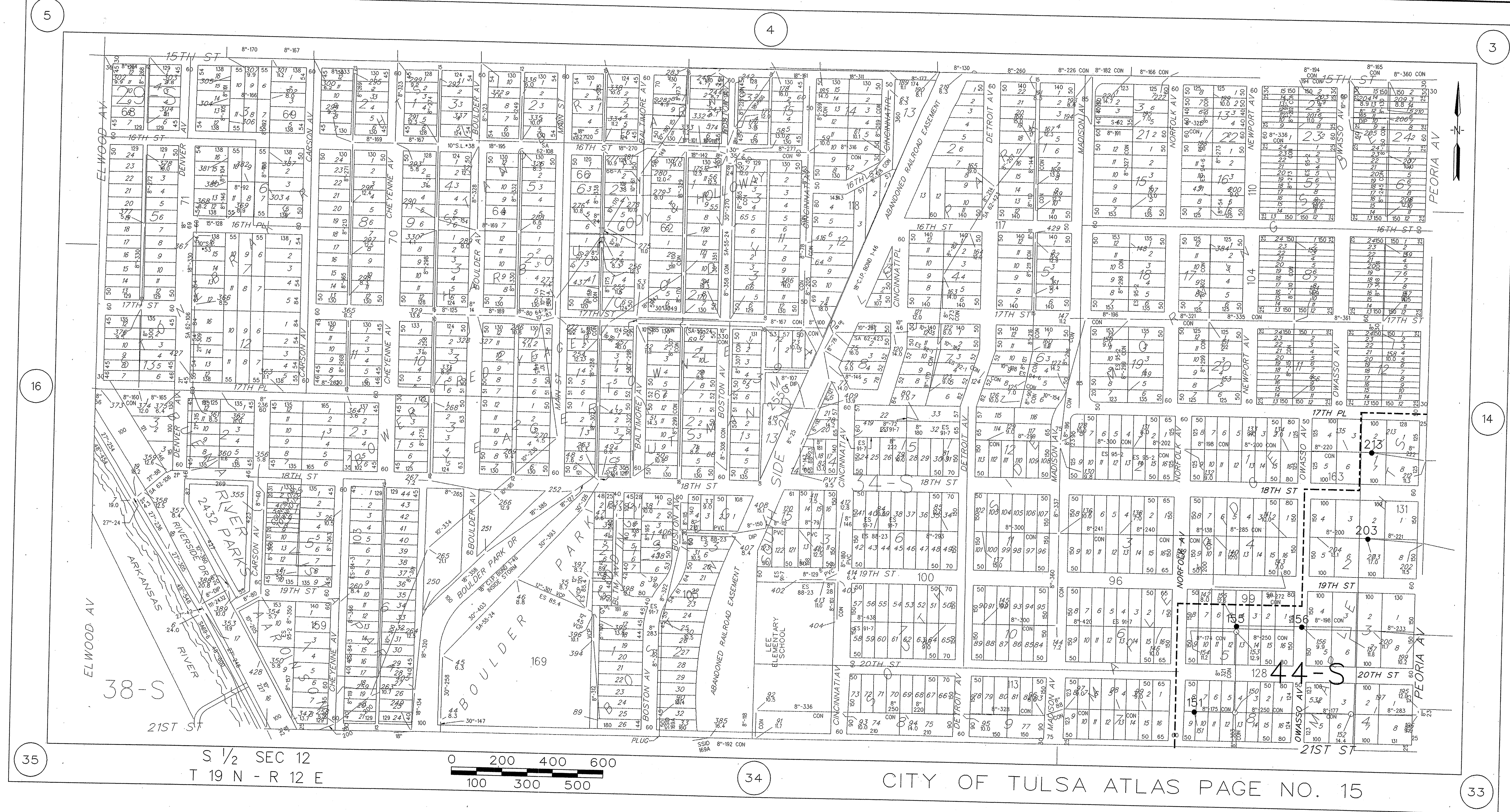
CITY OF TULSA ATLAS PAGE NO. 14



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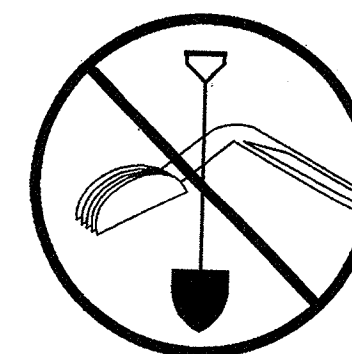
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MAINTENANCE AREA

MAINTENANCE AREA BOUNDARY

- MANHOLE, REHABILITATE OR REPLACE

432 MANHOLE NUMBER



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ES 96-07

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
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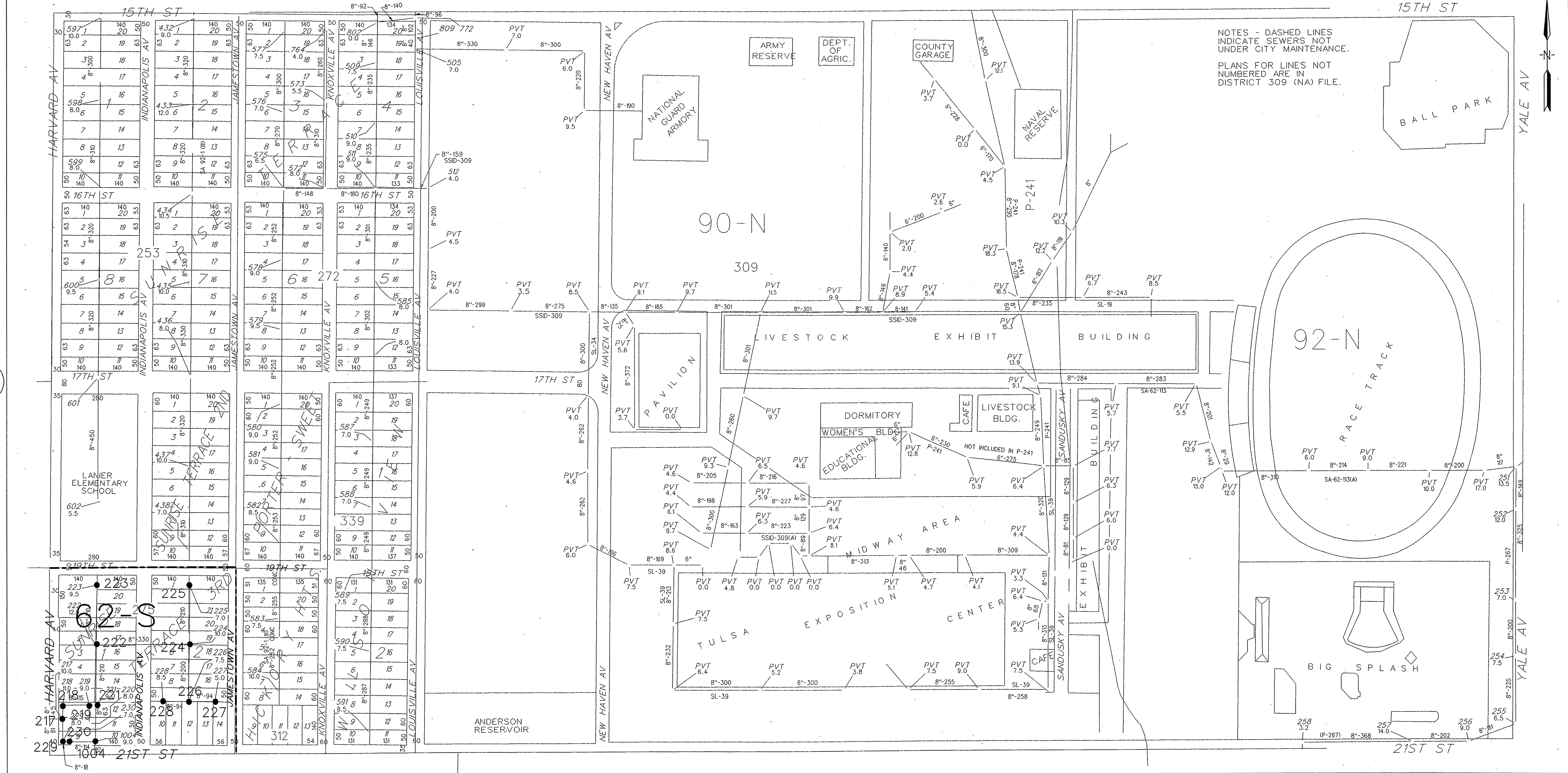
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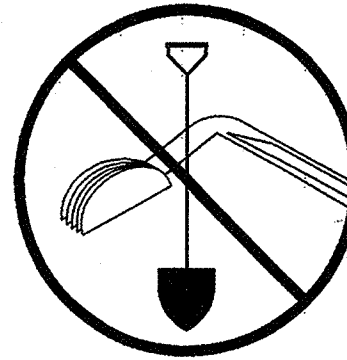


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PLANS FOR LINES NOT
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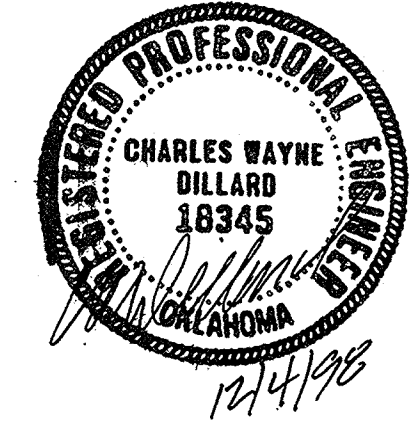
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44-S

- MAINTENANCE AREA
- MAINTENANCE AREA BOUNDARY
- MANHOLE, REHABILITATE OR REPLACE
- 432 MANHOLE NUMBER



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TULSA METROPOLITAN UTILITY AUTHORITY PROJECT NO. ES 96-07			
PLANS AND ESTIMATES PREPARED BY: Burns & McDonnell			
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REORDER BY NUMBER 075AR

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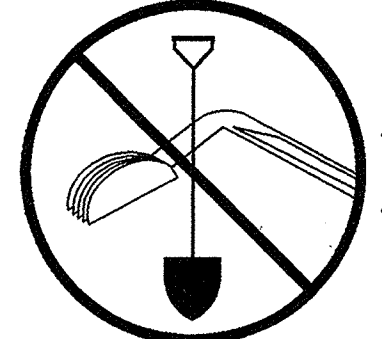
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44-S MAINTENANCE AREA

----- MAINTENANCE AREA BOUNDARY

● MANHOLE, REHABILITATE OR REPLACE

432 MANHOLE NUMBER



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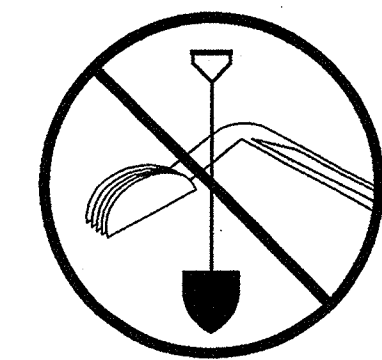
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● MANHOLE, REHABILITATE OR REPLACE

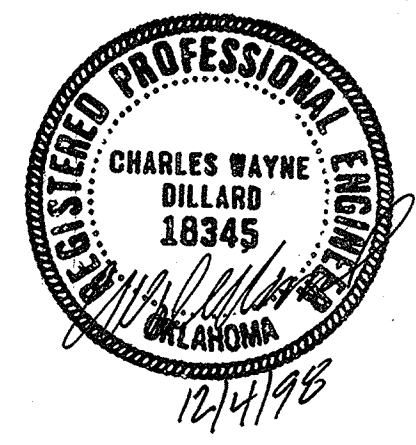
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			PUBLIC WORKS DIRECTOR
			DATE
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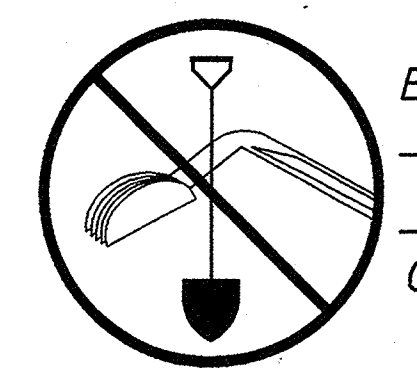
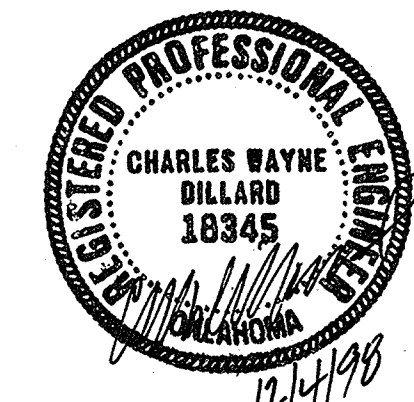
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44-S MAINTENANCE AREA

----- MAINTENANCE AREA BOUNDARY

● MANHOLE, REHABILITATE OR REPLACE

432 MANHOLE NUMBER



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REVISION			BY	DATE	PLAN SCALE:			DRAWN			RAH	5/10/98	APPROVED:	
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Contract No. 1
MANHOLE REHABILITATION
TULSA SOUTHSIDE PLANT INFLUENT
CROW CREEK BASIN REHABILITATION
SANITARY SEWER IMPROVEMENTS

**TULSA METROPOLITAN
UTILITY AUTHORITY**
PROJECT NO. ES 96-07

PLANS AND ESTIMATES PREPARED BY: Burns & McDonnell

PUBLIC WORKS DIRECTOR

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
RECORD BY NUMBER 0734M

ES 96-07

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
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PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
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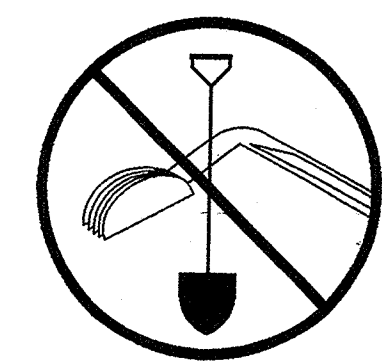
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44-S MAINTENANCE AREA

----- MAINTENANCE AREA BOUNDARY

● MANHOLE, REHABILITATE OR REPLACE

432 MANHOLE NUMBER



BEFORE YOU DIG...

1-800-522-6543

CALL OKIE



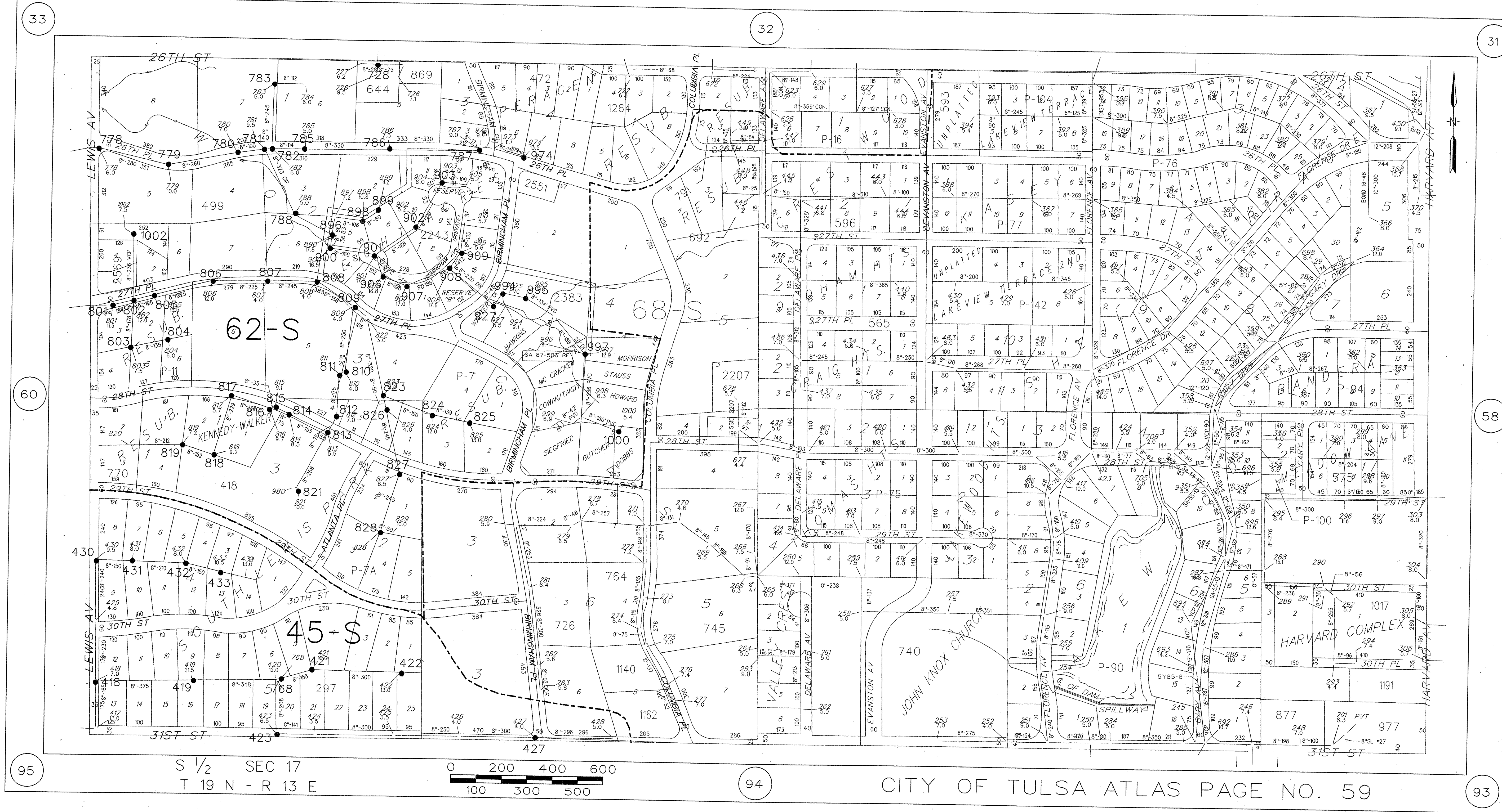
REVISION	BY	DATE

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1" = 200'	DESIGNED	VSM	5/9/98	
	SURVEY	JH	2/28/98	
PROFILE SCALE:	FIELD MNGR.			
HORIZONTAL:	SECT. MNGR.	RDS	12/11/98	
1" =	PROJ. MNGR.	ASU	12/1/98	
	RECOMMENDED:			
	DEPUTY DIRECTOR			
FILE:	DRAWING:			
ATLAS PAGE NO:	34			

Contract No. 1	MANHOLE REHABILITATION
TULSA SOUTHSIDE PLANT INFLUENT CROW CREEK BASIN REHABILITATION SANITARY SEWER IMPROVEMENTS	
TULSA METROPOLITAN UTILITY AUTHORITY	
PROJECT NO. ES 96-07	
PLANS AND ESTIMATES PREPARED BY:	
Burns & McDonnell	

DATE: 12/14/98

PUBLIC WORKS DIRECTOR



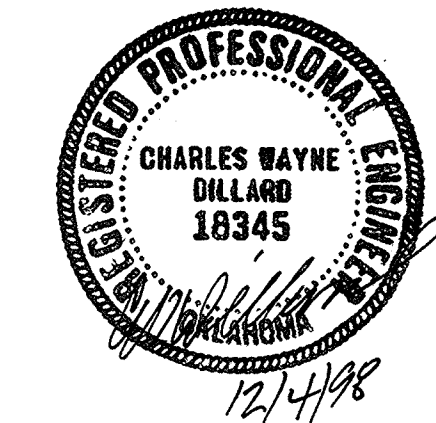
LEGEND

44-S MAINTENANCE AREA

----- MAINTENANCE AREA BOUNDARY

● MANHOLE, REHABILITATE OR REPLACE

432 MANHOLE NUMBER



 **BEFORE YOU DIG...**
1-800-522-6543
CALL OKIE

Contract No. 1 MANHOLE REHABILITATION			
TULSA SOUTHSIDE PLANT INFLUENT CROW CREEK BASIN REHABILITATION SANITARY SEWER IMPROVEMENTS			
TULSA METROPOLITAN UTILITY AUTHORITY			
PROJECT NO. ES 96-07			
PLANS AND ESTIMATES PREPARED BY: Burns & McDonnell			
REVISION	BY	DATE	APPROVED:
PLAN SCALE:	DRAWN	RAH 5/10/98	APPROVED:
1" = 200'	DESIGNED	VSM 5/9/98	
	SURVEY	JH 2/28/98	
PROFILE SCALE:	FIELD MNGR.		
HORIZONTAL:	SECT. MNGR.	RDS 12/11/98	
	PROJ. MNGR.	LSV 12/11/98	
VERTICAL	RECOMMENDED		
1" =	DEPUTY DIRECTOR		
FILE:	DRAWING:		DATE
ATLAS PAGE NO: 59			SHEET 13 OF 33 SHEETS

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 0754R

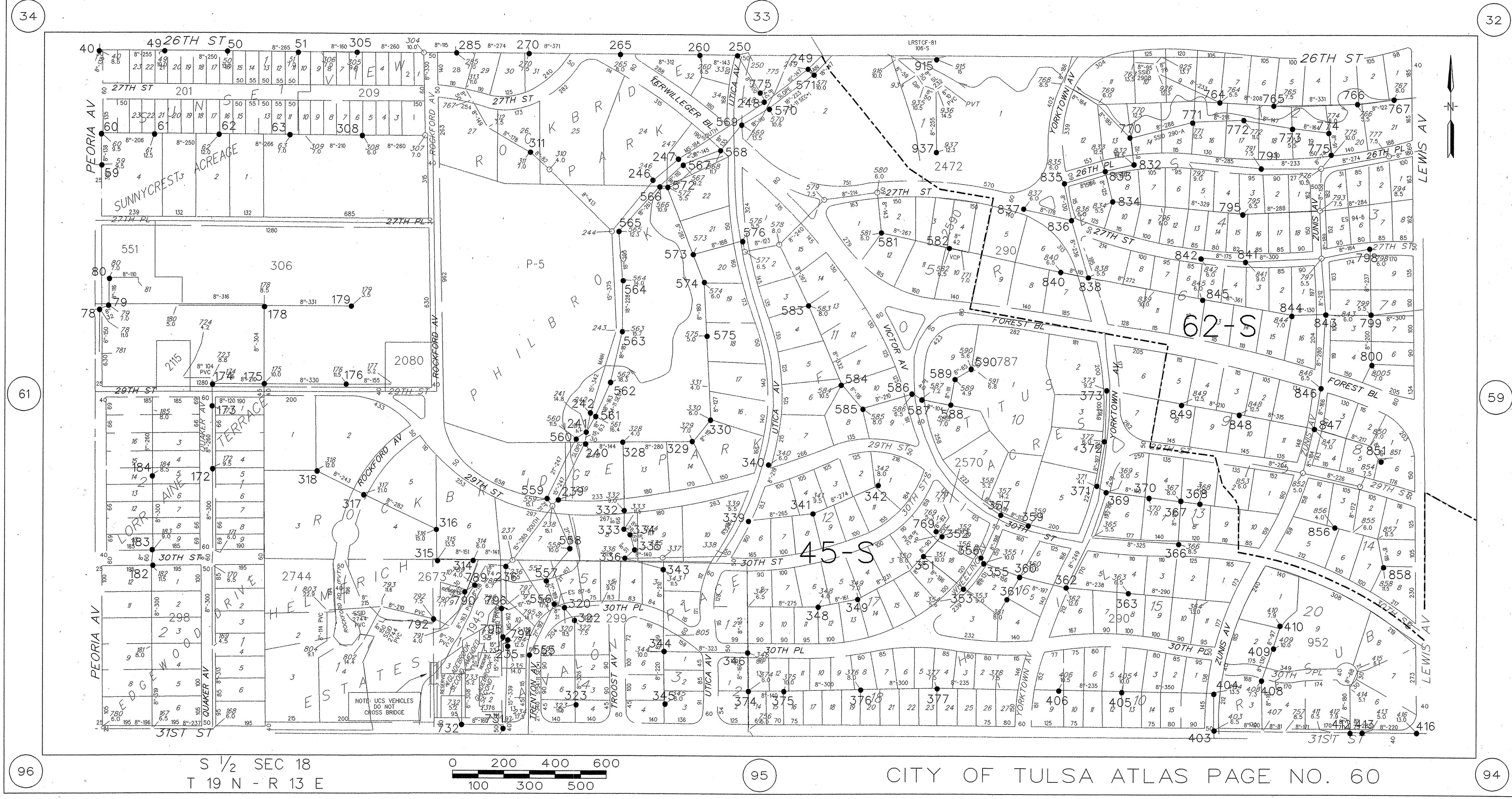
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 0754R

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 0754R

DBL

08-07-98 13:47

TULSA060.DGN



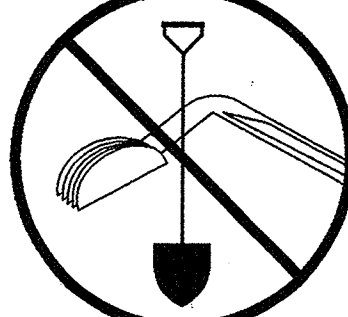
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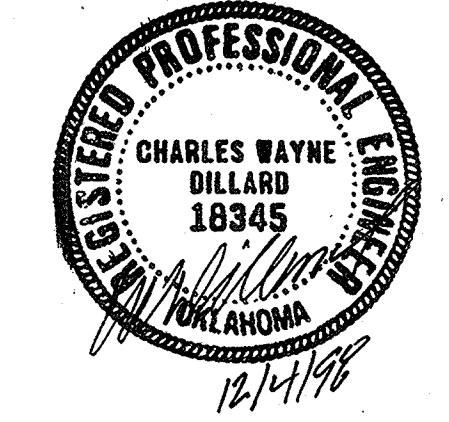
44-S MAINTENANCE AREA

----- MAINTENANCE AREA BOUNDARY

● MANHOLE, REHABILITATE OR REPLACE

432 MANHOLE NUMBER

 **BEFORE YOU DIG...**
1-800-522-6543
CALL OKIE



REVISION	BY	DATE

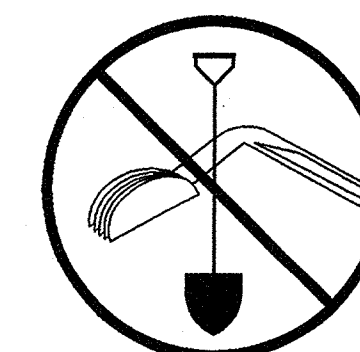
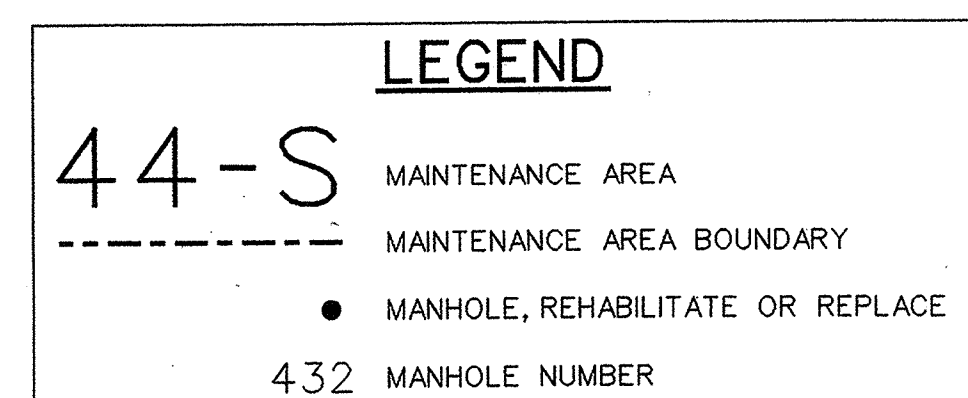
Contract No. 1
MANHOLE REHABILITATION
TULSA SOUTHSIDE PLANT INFLUENT
CROW CREEK BASIN REHABILITATION
SANITARY SEWER IMPROVEMENTS

TULSA METROPOLITAN UTILITY AUTHORITY
PROJECT NO. ES 96-07

PLANS AND ESTIMATES PREPARED BY: Burns & McDonnell

PLAN SCALE:	DRAWN	RAH	5/10/98	APPROVED:
T" = 200	DESIGNED	VSM	5/9/98	
	SURVEY	JH	2/28/98	
PROFILE SCALE:	FIELD MNGR.			
HORIZONTAL:	SECT. MNGR.	RDS	12/11/98	
	PROJ. MNGR.	JSU	12/11/98	
VERTICAL:	RECOMMENDED:			
T" =	DD 12-14-98			
FILE:	DEPUTY DIRECTOR			
	DRAWING:			
ATLAS PAGE NO:	60			

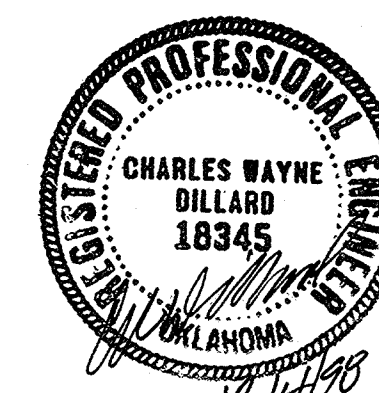
SHEET 14 OF 33 SHEETS



**BEFORE
YOU DIG...**

1-800-522-6543

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Contract No. 1
MANHOLE REHABILITATION
TULSA SOUTHSIDE PLANT INFLUENT
CROW CREEK BASIN REHABILITATION
SANITARY SEWER IMPROVEMENTS

TULSA METROPOLITAN
UTILITY AUTHORITY
PROJECT NO. ES 96-07

PLANS AND ESTIMATES PREPARED BY:

**Burns
&
McDonnell**

			McDonnell			
REVISION	BY	DATE	PLAN SCALE:	DRAWN	RAH	5/10/98
			1" = 200'	DESIGNED	VSM	5/9/98
				SURVEY	JH	2/28/98
			PROFILE SCALE:	FIELD MNGR.		
			HORIZONTAL:	SECT. MNGR.	RDS	12/11/98
			1" =	PROJ. MNGR.	LSW	12/14/98
			VERTICAL	RECOMMENDED:		
				1" = 10' 12-10-98		
			DEPUTY DIRECTOR	 PUBLIC WORKS DIRECTOR		
			FILE:	DRAWING:		DATE
			ATLAS PAGE NO: 61			SHEET 15 OF 33 SHEETS

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(139)

CITY OF TULSA ATLAS PAGE NO. 96

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<h2 style="margin: 0;">CONTRACT NO. 1</h2> <h1 style="margin: 0;">MANHOLE REHABILITATION</h1>			
TULSA SOUTHSIDE PLANT INFLUENT CROW CREEK BASIN REHABILITATION SANITARY SEWER IMPROVEMENTS			
<h2 style="margin: 0;">TULSA METROPOLITAN UTILITY AUTHORITY</h2>			
PROJECT NO. ES 96-07			
PLANS AND ESTIMATES PREPARED BY:			Burns & McDonnell
PLAN SCALE:	DRAWN	RAH	APPROVED:
	DESIGNED	VSM	
	SURVEY	JH	
PROFILE SCALE:	FIELD MNGR.	12/10/98	
	SECT. MNGR.	KDS	
HORIZONTAL:	PROJ. MNGR.	JSU	
	RECOMMENDED:	12-11-98	
VERTICAL	DEPUTY DIRECTOR	12-11-98	
FILE:	DRAWING:	DATE	PUBLIC WORKS DIRECTOR
ATLAS PAGE NO: 96			SHEET 17 OF 33 SHEETS

REVISION	BY	DATE	PLAN SCALE:	DRAWN	RAH	5/10/98
			1" = 200'	DESIGNED	VSM	5/9/98
				SURVEY	JH	2/28/98
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			VERTICAL	RECOMMENDED:		
			1" =	DEPUTY DIRECTOR		
			FILE:	DRAWING:		
			ATLAS PAGE NO:	96		

SHEET 17 OF 33 SHEETS

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REVISION BY NUMBER 0754R

DRAWING NUMBER
ES 96-07

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REVISION BY NUMBER 0754R

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REVISION BY NUMBER 0754R

Sheet no	Atlas	BasinID	MHID	MHAdd	Dir	MHStName	MHSfx	Dia	MHDepth	Surface	MHCons	Priority	# Def	1000	1020	1022	1030	1032	1045	1050	1052	1060	1210
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3	003	044	035-500	1639	E	15TH	ST	48	6.12	C	C	2	2						1	1			
3	003	044	036-355	1440	S	LEWIS	AV	48	9.26	A	B	2	2						1	1			
3	003	044	036-389	1815	E	15TH	ST	48	12.34	C	B	2	2		1				1				
3	003	044	036-390	1701	E	15TH	ST	48	9.20	C	B	2	3		1				1	1			
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3	003	044	036-399	1415	S	ZUNIS	AV	48	6.56	S	B	1	3		1				1	1			
3	003	044	036-400	1427	S	TERRACE	DR	48	9.80	C	B	1	1						1				
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Sheet no	Atlas	BasinID	MHID	MHAdd	Dir	MHStName	MHStfx	Dia	MHDepth	Surface	MHCons	Priority	# Def	1000	1020	1022	1030	1032	1045	1050	1052	1060	1210
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5	013	062	015-288	1548	S	ATLANTA	AV	48	8.62	S	C	2	2						1	1			
5	013	062	015-289	1624	S	ATLANTA	AV	48	9.02	C	C	2	1						1				
5	013	062	015-290	2442	E	15TH	ST	48	13.90	C	C	2	1						1				
5	013	062	015-333	1547	S	LEWIS	PL	48	8.48	S	C	2	2						1	1			
5	013	062	015-334	1527	S	LEWIS	PL	48	7.38	S	B	2	1						1				
5	013	062	015-335	2442	E	15TH	ST	48	8.31	A	C	2	1						1				
5	013	062	015-340	1527	S	LEWIS	AV		0.00			2	1	1					1				
5	013	062	015-341	2418	E	15TH	ST	48	5.64	A	B	2	2						1	1			
5	013	062	015-343	1536	S	ATLANTA	PL	48	8.46	S	C	2	1						1				
5	013	062	015-344	2516	E	15TH	ST	48	13.56	S	C	2	2						1	1			
5	013	062	015-345	2516	E	15TH	ST	48	11.62	A	B	2	2						1	1			
5	013	062	015-346	1535	S	ATLANTA	PL	48	10.98	S	C	2	1						1				
5	013	062	015-349	1515	S	ATLANTA	PL	48	11.86	S	B	2	1						1				
5	013	062	015-384	1625	S	LEWIS	PL	48	0.00			2	1	1					1				
5	013	062	015-385	1638	S	LEWIS	PL	48	8.10	S	C	2	2						1		1		
5	013	062	015-386	1717	S	LEWIS	AV	48	4.40	S	B	2	1						1				
5	013	062	015-387	1717	S	LEWIS	AV	48	8.00	S	C	2	1						1				
5	013	062	015-388	1626	S	LEWIS	PL																

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Sheet no	Atlas	BasinID	MHID	MHAdd	Dir	MHStName	MHSfx	Dia	MHDepth	Surface	MHCons	Priority	# Def	1000	1020	1022	1030	1032	1045	1050	1052	1060	1210
5	013	062	015-392	1612	S	LEWIS	PL	48	6.58	A	C	2	1						1				
5	013	062	015-394	1616	S	LEWIS	PL		0.00			2	1	1									
5	013	062	015-395	1609	S	LEWIS	AV		0.00			2	1	1									
5	013	062	015-396	1612	S	LEWIS	PL		0.00			2	1	1									
5	013	062	015-398	2508	E	17TH	ST	48	10.84	S	B	2	1						1				
5	013	062	015-399	2508	E	17TH	ST	48	7.66	S	C	2	1						1				
5	013	062	015-402	2522	E	16TH	ST	48	8.42	S	C	2	1						1				
5	013	062	015-403	2514	E	16TH	ST	48	11.06	S	B	2	1						1				
5	013	062	015-404	2522	E	17TH	ST	48	4.02	S	B	2	1						1				
5	013	062	015-405	2527	E	17TH	PL	48	5.76	S	B	2	1						1				
5	013	062	015-406	2549	E	17TH	PL	48	6.32	S	B	2	1						1				
5	013	062	015-407	1713	S	COLUMBIA	AV	48	7.14	C	C	2	2						1	1			
5	013	062	015-409	1733	S	COLUMBIA	AV	48	7.28	S	B	2	1						1				
5	013	062	015-921	1717	S	LEWIS	AV	48	8.00	S	C	2	1						1				
5	013	062	015-922	1717	S	LEWIS	AY	48	4.34	S	C	2	2						1			1	
5	013	062	15A-400	2508	E	17TH	ST	48	9.92	S	B	2	2						1			1	
5	013	062	15A-413	1709	S	COLUMBIA	AV	48	8.36	S	B	2	2						1		1		
5	013	062	15A-415	1624	S	COLUMBIA	AV	48	11.66	S	B	2	2						1			1	
5	013	062	15A-416	1616	S	COLUMBIA	AV	48	7.02	S	B	2	2						1			1	
5	013	062	15A-419	1540	S	COLUMBIA	AV	48	7.67	S	B	2	2						1			1	
5	013	062	15A-421	2622	E	15TH	PL		0.00	S		2	1	1					1	1			
5	013	062	15A-423	2610	E	15TH	PL	48	10.74	S	B	2	2									1	
5	013	062	15A-424	2615	E	15TH	PL		0.00	S		2	1	1					1				1
5	013	062	15A-427	2629	E	15TH	PL		0.00	S		2	1	1									
5	013	062	15A-429	1523	S	COLUMBIA	AV	48	7.74	D	B	2	2						1	1			
5	013	062	15A-430	1523	S	COLUMBIA	AV	48	12.95	S	B	2	1						1				
5	013	062	15A-432	1515	S	COLUMBIA	AV		0.00	S		2	1	1									
5	013	062	15A-433	1515	S	COLUMBIA	AV		0.00	S		2	1	1									
5	013	062	15A-434	2732	E	15TH	ST	48	7.29	S	B	2	2						1	1			
5	013	062	15A-438	2714	E	16TH	PL	48	12.54	S	B	2	2						1	1			
5	013	062	15A-439	2714	E	16TH	ST	48	8.03	S	B	2	2						1		1		
5	013	062	15A-440	2714	E	16TH	PL		0.00	S		2	1	1									
5	013	062	15A-447	1648	S	DELAWARE	AV	48	8.37	S	B	2	2						1		1		
5	013	062	15A-448	1717	S	COLUMBIA	AV	48	9.08	S	B	2	2						1				
5	013	062	15A-449	1730	S	DELAWARE	AV	48	9.90	S	B	2	2						1		1		
5	013	062	15A-453	1617	S	COLUMBIA	PL	48	13.48	S	B	2	2						1			1	
5	013	062	15A-454	1614	S	DELAWARE	AV	48	12.40	S	B	2	3		1				1	1			1
5	013	062	15A-458	1616	S	DELAWARE	PL	48	11.60	S	B	2	1						1				
5	013	062	15A-459	1648	S	DELAWARE	PL	48	10.47	S	B	2	2						1	1			
5	013	062	15A-464	1510	S	DELAWARE	PL	48	5.98	C	B	2	2						1	1			
5	013	062	15A-468	1510	S	EVANSTON	AV	48	11.58	S	B	2	1						1				
5	013	062	15A-469	1540	S	COLLEGE	AV	48	12.06	S	B	2	2						1	1			
5	013	062	15A-471	1509	S	EVANSTON	AV	48	9.10	A	B	2	2						1		1		
5	013	062	15A-476	1535	S	COLLEGE	AV	48	7.61	S	B	2	2						1	1			
5	013	062	15A-476X	1535	S	COLLEGE	AV		0.00	S		2	1	1					1				
5	013	062	15A-477	1535	S	COLLEGE	AV	48	13.97	S	B	2	1						1				
5	013	062	15A-479	1619	S	COLLEGE	AV		0.00	S		2	1	1									
5	013	062	15A-485	1624	S	EVANSTON	AV	48	12.79	S	B	2	2						1			1	
5	013	062	15A-487	1644	S	COLLEGE	AV	48	6.30	S	B	2	2						1		1		
5	013	062	15A-489	1620	S	COLLEGE	AV	48	10.23	S	B	2	2						1			1	
5	013	062	15A-491	1643	S	COLLEGE	AV	48	6.84	S	B	2	2						1			1	
5	013	062	15A-878	1519	S	COLLEGE	AV	48	9.64	S	B	2	1						1		1		
5	013	062	15A-939	1628	S	COLUMBIA	AV	48	11.57	A	C	2	2						1				
5	013	062	15A-948	1604	S	COLLEGE	AV	48	6.91	S	C	2	2						1		1		
5	013	062	15B-162	2651	E	21ST	ST	48	5.04	A	B	2	1						1	1			
5	013	062	15B-163	2705	E	21ST	ST	48	7.72	A	C	2	1						1				
5	013	062	15B-164	2727	E	21ST	ST	48	8.10	A	C	2	1						1				
5	013	062	15B-165	2727	E	21ST	ST	48	7.02	A	C	2	1						1				
5	013	062	15B-166	2727	E	21ST	ST	48	11.19	A	B	2	1						1				
5	013	062	15B-167	2727	E	21ST	ST	48	12.96	A	B	2	2		1				1				
5	013	062	15B-168	2008	S	DELAWARE	PL	48	13.14	S	B	2	2		1				1				
5	013	062	15B-169	2013	S	DELAWARE	PL	48	10.36	S	B	2	2						1			1	
5	013	062	15B-170	2004	S	DELAWARE	PL	48	8.78	A	B	2	1						1				
5	013	062	15B-171	2004	S	DELAWARE	PL	48	6.35	C	B	2	2						1	1			
5	013	062	15B-173	1812	S	DELAWARE	AV	48	5.60	S	B	2	1						1				
5	013	062	15B-175	1743	S	DELAWARE	AV	48	8.88	C	B	2	1						1				
5	013	062	15B-176	1726	S	DELAWARE	PL	48	12.66	S	B	2	1						1				
5	013	062	15B-177	1704	S	DELAWARE	PL	48	12.14	S	B	2	1						1				
5	013	062	15B-178	2013	S	DELAWARE	PL	48	15.70	S	B	2	1						1				
5	013	062	15B-179	1918	S	EVANSTON	AV	48	13.02	S	B	2	2						1			1	
5	013	062	15B-180	1903	S	DELAWARE	PL	48	9.24	C	B	2	2						1			1	
5	013	062	15B-182	1703	S	DELAWARE	PL	48	10.01	D	B	2	2						1	1			
5	013	062	15B-183	1905	S	EVANSTON	AV	48	14.22	S	B	2	1						1				
5	013	062	15B-184	1919	S	EVANSTON	AY	48	11.52	S	B	2	1						1				
5	013	062	15B-185	1931	S	EVANSTON	AV		0.00			2	1	1									
5	013	062	15B-186	1725	S	EVANSTON	AV	48	9.56	S	B	2	2						1		1		
5	013	062	15B-187	1702	S	COLLEGE	AV	48	8.38	D	B	2	2						1	1			
5	013	062	15B-188	1904	S	FLORENCE	AV	48	12.32	S	B	2	1						1				
5	013	062	15B-189	1914	S	FLORENCE	AV	48	13.16	S	B	2	2						1			1	
5	013	062	15B-192	1703	S	COLLEGE	AV	48	10.68	S	B	2	1						1				
5	013	062	15B-193	1941	S	EVANSTON	AV	48	12.36	S	B	2	1						1				
5	013	062	15B-1																				

DRAWING NUMBER

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Sheet no	Atlas	BasinID	MHID	MHAdd	Dir	MHStName	MHSfx	Dia	MHDepth	Surface	MHCons	Priority	# Def	1000	1020	1022	1030	1032	1045	1050	1052	1060	1210
5	013	062	15B-200	1706	S	FLORENCE	PL	48	11.52	S	B	2	1						1				
5	013	062	15B-201	2100	S	FLORENCE	PL	48	9.60	S	B	2	1						1				
5	013	062	15B-202	2100	S	FLORENCE	PL	48	8.32	S	B	2	3			1			1				
5	013	062	15B-203	1923	S	FLORENCE	PL	48	11.38	S	B	2	2						1		1		
5	013	062	15B-204	1923	S	FLORENCE	PL	48	12.00	C	B	2	1						1			1	
5	013	062	15B-205	1731	S	FLORENCE	PL	48	10.00	S	B	2	2						1		1		
5	013	062	15B-206	1703	S	FLORENCE	PL	48	10.18	S	B	2	1						1				
5	013	062	15B-207	1940	S	GARY	PL	48	13.58	S	B	2	1						1				
5	013	062	15B-208	3209	E	21ST	ST	48	11.28	C	B	2	1						1				
5	013	062	15B-209	1923	S	GARY	AV	48	12.68	S	B	2	2						1				
5	013	062	15B-210	1748	S	GARY	PL	48	12.74	C	B	2	1			1			1				
5	013	062	15B-211	1727	S	GARY	AV	48	13.82	S	B	2	2						1				
5	013	062	15B-212	1702	S	GARY	PL	48	9.20	S	B	2	2						1		1		
5	013	062	15B-213	1941	S	GARY	PL	48	17.30	S	B	2	1						1		1		
5	013	062	15B-214	3235	E	21ST	ST	48	8.63	S	B	2	1						1				
5	013	062	15B-215	1927	S	GARY	PL	48	12.14	C	B	2	1						1				
5	013	062	15B-216	1901	S	GARY	PL	48	10.98	A	B	2	1						1				
5	013	062	15B-924	1939	S	GARY	AV	48	8.64	S	B	2	1						1				
6	014	044	035-198	1315	E	20TH	ST	48	15.84	S	B	1	2					1	1				
6	014	044	035-201	1316	E	18TH	ST	48	14.40	S	B	2	3					1	1			1	
6	014	044	035-202	1232	E	18TH	ST	48	11.71	A	B	2	2			1			1				
6	014	044	035-205	1804	S	QUAKER	ST	48	9.32	A	B	2	1						1			1	
6	014	044	035-208	1815	S	QUINCY	AV	48	8.72	C	C	2	2						1				
6	014	044	035-209	1315	E	18TH	ST	48	9.88	C	C	2	1						1				1
6	014	044	035-212	1224	E	17TH	PL	48	11.48	A	B	2	1						1				
6	014	044	035-214	1735	S	PEORIA	AV	48	11.08	S	C	2	1						1				
6	014	044	035-215	1735	S	PEORIA	AV	48	10.86	A	B	1	3					1	1	1			
6	014	044	035-216	1724	S	QUAKER	AV	48	10.42	S	B	1	3					1	1			1	
6	014	044	035-217	1316	E	17TH	ST	48	11.78	A	B	2	2						1				
6	014	044	035-219	1325	E	18TH	ST	48	11.80	A	B	2	2						1	1			
6	014	044	035-220	1723	S	QUAKER	AV	48	10.28	A	B	2	2						1	1			
6	014	044	035-221	1629	S	QUAKER	AV	48	10.18	A	B	2	2						1				1
6	014	044	035-222	1601	S	QUAKER	AV	48	10.64	A	B	2	2						1		1		
6	014	044	035-223	1348	S	QUINCY	AV	48	11.59	S	C	2	1						1	1			
6	014	044	035-224	1747	S	QUINCY	AV	48	9.70	A	B	1	3					1	1				
6	014	044	035-225	1728	S	QUINCY	AV	48	10.26	A	B	2	2					1	1	1			
6	014	044	035-226	1711	S	QUINCY	AV	48	12.54	A	B	2	2						1				1
6	014	044	035-227	1627	S	QUINCY	AV	48	11.58	A	B	2	2						1				1
6	014	044	035-228	1606	S	QUINCY	AV	48	10.14	A	B	2	2						1		1		
6	014	044	035-266	1347	E	21ST	ST	48	8.28	D	C	1	1					1	1				
6	014	044	035-268	1427	E	21TH	ST	48	11.66	C	B	2	2					1			1		
6	014	044	035-269	1515	E	21ST	ST	48	11.56	C	B	2	2						1				
6	014	044	035-270	1531	E	21TH	ST	48	12.81	C	B	2	2						1	1			
6	014	044	035-272	1425	E	20TH	ST	48	10.73	S	B	2	2						1				1
6	014	044	035-274	1327	E	20TH	ST	48	8.58	S	C	2	2						1				
6	014	044	035-275	1515	E	20TH	ST	48	21.18	S	B	2	2						1		1		
6	014	044	035-277	1520	E	19TH	ST	48	13.08	S	B	2	1						1				
6	014	044	035-280	1421	E	19TH	ST	48	6.82	A	B	2	2			1							
6	014	044	035-281	1807	S	QUINCY	AV	48	9.30	S	B	2	2						1				1
6	014	044	035-284	1428	E	17TH	PL	48	8.54	S	B	2	2						1	1			
6	014	044	035-286	1764	S	ST LOUIS	AV	48	4.24	C	B	2	2						1		1		
6	014	044	035-287	1538	E	19TH	ST	48	16.70	C	C	2	2						1				1
6	014	044	035-290	1570	E	19TH	ST	48	8.52	S	B	2	2						1			1	
6	014	044	035-291	1570	E	19TH	ST	48	0.00	S		2	1	1					1	1			
6	014	044	035-295	1560	E	SWAN	DR	48	12.02	C	C	2	2										
6	014	044	035-296	1554	E	SWAN	DR	48	8.00	O	B	1	3					1		1			
6	014	044	035-298	1574	E	SWAN	DR	48	12.52	C	C	2	2						1		1		1
6	014	044	035-299	1560	E	SWAN	DR	48	10.88	C	C	2	2						1				
6	014	044	035-301	1778	S	UTICA	AV	48	0.00	S		2	1	1					1	1			
6	014	044	035-302	1592	E	SWAN	DR	48	9.84	C	C	2	1						1				
6	014	044	035-306	1596	E	SWAN	DR	48	8.90	S	C	2	1						1				
6	014	044	035-307	1599	E	SWAN	DR	48	6.76	C	C	2	2										

Sheet no	Atlas	BasinID	MHID	MHAdd	Dir	MHSName	MHSfx	Dia	MHDepth	Surface	MHCons	Priority	# Def	1000	1020	1022	1030	1032	1045	1050	1052	1060	1210
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6	014	044	035-466	1534	E	17TH	PL	48	10.68	S	B	2	1						1	1			
6	014	044	035-467	1539	E	17TH	PL	48	9.70	A	B	2	2						1				
6	014	044	035-468	1701	S	ST LOUIS	AV	48	10.96	A	B	2	2						1		1		
6	014	044	035-469	1621	S	ST LOUIS	AV	48	11.98	A	B	2	1						1		1		
6	014	044	035-470	1540	E	16TH	ST	48	11.70	A	B	2	2						1				
6	014	044	035-471	1521	S	ST LOUIS	AV	48	15.70	A	B	2	2						1		1		
6	014	044	035-485	1523	E	19TH	ST	48	6.88	S	C	2	2						1	1			
6	014	044	035-502	1538	E	19TH	ST	48	16.48	C	C	2	1						1			1	
6	014	044	035-503	1552	E	SWAN	DR	48	11.20	C	C	2	2						1				
6	014	044	035-504	1583	E	SWAN	DR	48	10.84	C	C	2	2						1		1		
6	014	044	035-505	1539	E	SWAN	DR	48	11.54	C	C	2	2						1	1			
6	014	044	035-506	1534	E	19TH	ST	48	10.82	S	C	2	2						1		1		
6	014	044	035-507	1705	E	19TH	ST	48	17.40	C	B	2	2						1	1			
6	014	044	035-511	1705	E	19TH	ST	48	13.84	C	C	2	2						1	1			
6	014	044	035-537PA	1819	E	19TH	ST	48	10.84	S	B	2	1						1	1			
6	014	044	035-537PB	1819	E	19TH	ST	48	8.64	C	B	2	2						1				
6	014	044	035-537PE	1819	E	19TH	ST	48	10.30	C	B	2	1						1	1			
6	014	044	035-548	1425	E	21TH	ST	60	21.02	S	C	2	2						1				
6	014	044	035-552	1425	E	20TH	ST	60	20.84	S	C	2	2						1	1			
6	014	044	035-553	1510	E	19TH	ST			S		2	1	1					1		1		
6	014	044	035-558	1534	E	19TH	ST	48	24.04	A	C	2	2						1	1			
6	014	044	036-316	1710	S	UTICA	AV	48	11.40	C	B	2	2						1				
6	014	044	036-321	1717	E	17TH	ST	48	10.92	C	B	1	1						1	1			
6	014	044	036-322	1721	S	VICTOR	AV	48	4.28	C	C	2	1						1				
6	014	044	036-323	1624	S	VICTOR	AV	48	10.30	C	B	1	2						1				
6	014	044	036-326	2001	E	17TH	PL	48	10.72	S	B	2	1						1	1			
6	014	044	036-327	1831	E	17TH	PL	48	10.48	S	B	2	1						1				
6	014	044	036-328	1811	E	17TH	PL	48	8.02	S	B	2	1						1				
6	014	044	036-329	1729	S	XANTHUS	AV	48	5.20	S	B	1	1						1				
6	014	044	036-330	1912	E	17TH	PL	48	6.24	C	B	2	1						1				
6	014	044	036-332	2016	E	17TH	PL	48	12.84	S	B	2	1						1				
6	014	044	036-333	1753	S	XANTHUS	AV	48	8.16	S	B	2	1						1				
6	014	044	036-334	2016	E	19TH	ST		0.00			2	1	1					1				
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6	014	044	036-336	2115	E	18TH	ST	48	6.92	S	B	1	2						1				
6	014	044	036-341	1711	S	YORKTOWN	AV	48	7.20	C	B	1	2					1	1				
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6	014	044	036-345	1711	S	YORKTOWN	AV	48	6.80	S	B	2	1						1				
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6	014	044	036-347	1711	S	YORKTOWN	AV	48	7.98	S	B	2	2						1			1	
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6	014	044	036-349	2131	E	17TH	PL	48	2.48	S	N	2	2						1				
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6	014	044	036-351	2324	E	17TH	ST	48	5.10	S	B	2	1						1				
6	014	044	036-352	2203	E	17TH	ST	48	4.34	A	B	2	2						1				
6	014	044	036-353	1535	S	GILLETTE	AV	48	10.85	S	B	1	1						1	1			
6	014	044	036-357	1568	S	YORKTOWN	AY	48	5.44	C	B	2	2						1				
6	014	044	036-358	1567	S	YORKTOWN	AV	48	4.06	S	B	2	2						1			1	
6	014	044	036-360	1569	S	YORKTOWN	PL	48	3.24	S	B	1	1						1			1	
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6	014	044	036-372	1820	E	16TH	ST	48	12.71	S	B	1	1						1				
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6	014	044	036-374	1875	S	17TH	ST		0.00	S		2	1	1					1	1			
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6	014	044	036-383	1521	S	YORKTOWN	PL	48	14.70	S	B	1	2						1				
6	014	044	036-384	1518	S	GILLETTE	AV	48	12.40	S	B	2	1						1				
6	014	044	036-386	1611	S	UTICA	AV	48	12.06	A	B	2	1						1				
6	014	044	036-387	1523	S	VICTOR	AV	48	12.86	C	B	2	1						1				
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6	014	044	036-592	2324	E	17TH	ST	48	5.10	S	B	2	1						1				
6	014	044	036-593	2324	E	17TH	ST	48	6.18	S	B	2	1						1				
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6	014	062	014-529PD	1923	S	UTICA	AV		0.00	C		2	1	1					1				
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6	014	062	014-532	1900	S	WHEELING	AV	48	5.66	C	C	2	1						1				
6	014	062	014-533	1900	S	WHEELING	AV	48	4.70	C	C	2	1						1				
6	014	062	014-535	1900	E	19TH	ST	48	6.84	C	C	2	1	1					1				

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
RECORDED BY NUMBER 07548DRAWING NUMBER
ES 96-07PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
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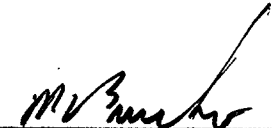
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6	014	062	014-877A	1920	S	YORKTOWN	AV	48	7.36	C	C	2	1									
6	014	062	014-888	1579	E	21ST	ST	48	17.86	A	C	2	2									
6	014	062	014-932	1764	S	XANTHUS	AV	48	4.82	S	C	2	1					1	1			
6	014	062	014-933	1736	S	XANTHUS	AV	48	5.20	S	C	2	1					1				
6	014	062	015-1007	2143	E	17TH	ST		0.00			2	1					1				
6	014	062	015-140	2111	E	21ST	ST	48	10.50	A	B	2	1	1								
6	014	062	015-141	2227	E	21ST	ST	48	8.60	A	B	2	1					1	1			
6	014	062	015-142	2227	E	21ST	ST	48	11.10	A	B	2	1					1				
6	014	062	015-143	2212	E	20TH	ST		0.00			2	1					1				
6	014	062	015-235	2021	S	LEWIS	AV	48	13.52	A	B	2	1	1								
6	014	062	015-236	2227	E	21ST	ST	48	13.46	A	C	2	1					1				
6	014	062	015-237	2021	S	LEWIS	AV	48	12.66	A	B	2	1					1				
6	014	062	015-238	1920	S	LEWIS	AV	48	8.81	A	B	2	1					1				
6	014	062	015-254	1940	S	LEWIS	AV	48	9.85	A	B	2	1					1				
6	014	062	015-255	2216	E	18TH	ST	48	13.30	S	B	2	1					1				
6	014	062	015-265	1800	S	LEWIS	AV	48	13.16	A	B	2	1					1				
6	014	062	015-285	1741	S	LEWIS	AV	48	7.02	A	B	2	1					1				
6	014	062	015-286	2211	E	18TH	ST	48	10.93	S	B	2	1					1				
6	015	062	015-371	1423	S	DELAWARE	AV	48	10.24	S	B	2	1					1				
6	014	062	015-493	2121	E	21ST	ST	48	5.82	A	B	2	1					1				
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6	014	062	015-496	2116	E	20TH	ST	48	10.70	S	B	2	1					1				
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6	014	062	015-501	2132	E	19TH	ST		0.00			2	1	1				1				
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6	014	062	015-503	2116	E	19TH	ST	48	10.82	S	B	2	2					1				
6	014	062	015-508	2131	E	19TH	ST	48	9.16	S	B	2	1					1				
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6	014	062	015-511	2131	E	18TH	ST	48	10.90	S	B	2	1					1				
6	014	062	015-513	2208	F	17TH	ST		0.00			2	1					1				
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6	014	062	015-967	2132	E	19TH	ST	48	6.26	A	C	2	1					1				
6	014	062	015-969	2224	E	19TH	ST	48	11.68	S	B	2	1					1				
6	014	062	015-991	2219	E	21ST	ST	30	8.50	A	B	2	1					1				
7	015	044	034-151	2003	S	NORFOLK	AV		0.00	O		2	1	1								1
7	015	044	034-155	1124	E	19TH	ST	48	12.60	S	B	2	2									
7	015	044	034-156	1906	S	OWASSO	AV	48	9.96	A	B	1	1					1	1			
7	015	044	035-203	1225	E	19TH	ST	48	17.16	D	B	2	1					1				
7	015	044	035-213	1224	E	17TH	PL		0.00	S		2	1	1				1				
8	030	062	15B-1004	194	S	HARVARD	AV	48	9.72	S	B	2	1					1				
8	030	062	15B-217	1943	S	HARVARD	AV	48	11.28	S	B	2	2					1				
8	030	062	15B-218	1943	S	HARVARD	AV		0.00			2	1	1				1	1			
8	030	062	15B-219	1943	S	HARVARD	AV	48	11.52	S	B	2	1	1								
8	030	062	15B-221	1943	S	HARVARD	AV	48	11.34	S	B	2	2					1	1			
8	030	062	15B-222	1928	S	INDIANAPOLIS	AV		0.00			2	1	1				1	1			
8	030	062	15B-223	1907	S	HARVARD	AV	48	10.02	S	B	2	1									
8	030	062	15B-224	1919	S	INDIANAPOLIS	AV	48	9.70	S	B	2	1					1				
8	030	062	15B-225	1902	S	JAMESTOWN	AV	48	9.76	S	B	2	1					1				
8	030	062	15B-226	3411	E	21ST	ST	48	11.42	A	B	2	1					1				
8	030	062	15B-227	1936	S	JAMESTOWN	AV	48	5.54	S	B	2	1					1				
8	030	062	15B-228	1933	S	INDIANAPOLIS	AV	48	7.62	S	B	2	2					1				
8	030	062	15B-229	1943	S	HARVARD	AV	48	9.12	S	B	2	1					1	1			
8	030	062	15B-230	1943	S	HARVARD	AV	48	8.30	S	B	2	1					1				
9	031	062	15B-105	3303	E	22ND	ST	48	4.58	S	B	2	1					1				
9	031	062	15B-106	2204	S	INDIANAPOLIS	AV	48	7.72	S	B	2	1					1				
9	031	062	15B-107	2228	S	INDIANAPOLIS	AV	48	12.86	S	B	2	1					1				
9	031	062	15B-108	2300	S	HARVARD	AV	48	12.90	S	B	2	1					1				
9	031	062	15B-109	3328	E	23RD	ST	48	14.32	S	B	2	1					1				
9	031	062	15B-112	3544	E	23RD	ST	48	9.64	A	B	2	2					1				
9	031	062	15B-113	3710	E	23RD	ST	48	8.78	C	B	2	1	1				1				
9	031	062	15B-115	2229	S	LOUISVILLE	AV		0.00			2	1	1				1				
9	031	062	15B-116	2203	S	LOUISVILLE	AV	48	7.80	S	B	2	1									
9	031	062	15B-117	2121	S	LOUISVILLE	AV	48	7.52	S	B	2	1					1				
9	031	062	15B-118	2105	S	LOUISVILLE	AV	48	6.36	S	B	2	1					1				
9	031	062	15B-119	3529	E	23RD	ST	48	6.38	S	B	2	1					1				
9	031	062	15B-120	3545	E	23RD	ST	48	11.22	S	B	2	1					1				
9	031	062	15B-121	3509	E	22ND	PL	48	5.38	S	B	2	1					1				
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9	031	062	15B-126	3515	F	22ND	PL	48	9.22	S	B	2	1									
9	031	062	15B-128	3526	E	22ND	ST	48	8.66	A	B	2	1					1				
9	031	062	15B-129	3527	E	21ST	ST	48	7.46	S	B	2	2					1				
9	031	062	15B-130	3543	E	22ND	ST		0.00			2	1	1								1
9	031	062	15B-133	3507	E	22ND	ST	48	7.78	S	B	2	1					1				
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9	031	062	15B-138	3529	E	21ST	ST	48	5.28	S	B	2	1					1				
9	031	062																				

**Burns
&
McDonnell**

6450 South Lewis Avenue
Suite 220
Tulsa, Oklahoma 74136
Tel: 918 744-7111
Fax: 918 712-9554

CONTRACT NO. 1
MANHOLE REHABILITATION & REPLACEMENT

**TULSA SOUTHSIDE PLANT INFLUENT CROW CREEK BASIN REHABILITATION SANITARY
SEWERS IMPROVEMENTS**
TULSA METROPOLITAN UTILITY AUTHORITY
PROJECT NUMBER : ES 96-07

Drawn by :	ERS	12/2/88	File Name	Comp_Contract#_LF	APPROVED:  PUBLIC WORKS DIRECTOR
Designed by:	VSM	5/8/98			
Survey by:		2/28/98			
Field Mngr.					
Sect. Mngr.	RDS	12/11/98			
Proj. Mngr.	JSV	12/11/98			
Plans and Estimates Prepared by Burns & McDonnell			RECOMMENDED: 6/10 12-14-98		
			DEPUTY DIRECTOR		

REVISION	BY	DATE	REVISION	BY	DATE	DATE

SHEET 24 OF 33 SHEETS

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REGISTERED BY NUMBER 07549DRAWING NUMBER
ES 96-07PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REGISTERED BY NUMBER 07549

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REGISTERED BY NUMBER 07549

Sheet no	Atlas	BasinID	MHID	MHAdd	Dir	MHSName	MHSfx	Dia	MHDepth	Surface	MHCons	Priority	# Def	1000	1020	1022	1030	1032	1045	1050	1052	1060	1210
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10	032	062	14A-753	2445	E	24TH	ST	48	10.95	D	B	2	1						1				
10	032	062	14A-754	2464	E	23RD	ST	48	7.72	D	B	2	2						1			1	
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11	033	044	034-178	2435	S	PEORIA	AV	48	13.60	S	B	2	2						1	1			
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11	033	044	035-239	1560	E	21ST	ST	48	8.99	C	B	2	1						1				
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11	033	044	035-248	2224	S	ST LOUIS	AV	48	14.66	S	B	2	1						1				
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11	033	044	035-250	2229	S	ST LOUIS	AV	48	14.30	S	B	2	2						1	1			
11	033	044	035-251	2240	S	TROOST	AV	48	13.78	D	B	2	1						1				
11	033	044	035-254	2435	S	ST LOUIS	AV		0.00	S		2	1	1									
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11	033	044	035-261	1572	E	22ND	ST	48	9.25	S	C	2	2						1	1			
11	033	044	035-545	2100	S	TERWILLEGER	BV	60	21.20	S	C	2	2						1	1			
11	033	045	013-251	2664	S	UTICA	AV	48	6.38	S	B	2	1						1				
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11	033	045	013-274	2605	S	TERWILLEGER	BL	48	7.06	S	B	2	2						1	1			
11	033	045	013-275	2431	S	TERWILLEGER	BL	48	9.32	S	B	2	3		1				1	1			
11	033	045	013-276	2411	S	TERWILLEGER	BL	48	9.06	S	B	2	2						1	1			
11	033	045	013-277	2261	S	TERWILLEGER	BL	48	10.24	S	B	2	1						1				
11	033	045	013-278	2250	S	ST LOUIS	AV	48	11.50	S	B	2	2						1	1			
11	033	045	013-280	2621	S	TERWILLEGER	BL	48	6.14	S	B	2	1						1				
11	033	045	013-281	2607	S	TERWILLEGER	BL	48	7.34	S	B	2	3			1						1	
11	033	045	013-282	2439	S	TERWILLEGER	BL	48	7.76	C	B	2	2						1	1			
11	033	045	013-283	2417	S	TERWILLEGER	BL	48	8.56	S	B	2	1						1				
11	033	045	013-284	2407	S	TERWILLEGER	BL	48	10.26	S	B	2	1						1				
11	033	045	013-286	1510	E	26TH	PL	48	9.12	C	B	2	1						1				
11	033	045	013-287	1503	E	26TH	PL	48	9.20	C	B	2	2						1	1			
11	033	045	013-288	1399	E	26TH	ST	48	11.02	A	B	2	2						1	1			
11	033	045	013-289	1399	E	26TH	ST	48	12.02	S	B	2	1						1				
11	033	045	013-290	2514	S	TERWILLEGER	BL	48	6.30	S	B	2	2						1			1	
11	033	045	013-291	2440	S	TERWILLEGER	BL		0.00			2	1	1									
11	033	045	013-294	2402	S	TERWILLEGER	BL	48	10.52	S	B	2	1						1				
11	033	045	013-296	2246	S	TERWILLEGER	BL	48	10.98	S	B	2	1						1				
11	033	045	013-298	1395	E	26TH	ST	48	13.76	S	B	2	1						1				
11	033	045	013-299	1369	E	26TH	ST	48	9.94	S	B	2	1						1				
11	033	045	013-301	1503	E	26TH	PL		0.00			2	1	1									
11	033	045	013-302	1504	E	26TH	ST	48	11.66	S	B	2	2						1	1			
11	033	045	013-759	2411	S	TERWILLEGER	BL	48	9.76	S	C	2	1						1				
11	033	045	013-760	2426	S	TERWILLEGER	BL	48	9.24	S	C	2	1						1				
11	033	045	013-760P	2430	S	TERWILLEGER			0.00	S		2	1	1									
11	033	045	013-761	2508	S	TERWILLEGER	BL	48	6.60	O	C	2	2						1			1	
11	033	045	013-763	2514	S	TERWILLEGER	BL	48	6.54	S	C	2	2						1	1			
11	033	045	033-041	1303	E	26TH	PL	48	13.44	S	B	2	2						1			1	
11	033	045	033-042	1323	E	26TH	PL	48	13.60	S	B	2	1						1				
11	033	045	033-043	1354	E	26TH	ST	48	12.44	S	B	2	1						1				
11	033	045	033-045	1318	E	25TH	ST	48	16.86	S	B	2	3		1				1			1	
11	033	045	033-735	1324	E	26TH	ST	48	5.80	A	C	2	2						1			1	
11	033	045	033-798	1304	E	26TH	PL	48	6.48	S	B	2	1						1				
11	033	062	014-001	2520	S	YORKTOWN	AV	48	9.10	D	C	2	1		1								
11	033	062	014-004	2520	S	YORKTOWN	AV	48	11.34	D	C	2	1		1								
11	033	062	014-007	2520	S	YORKTOWN	AV	48	18.92	A	C	2	1						1				
11	033	062	014-010	2520	S	YORKTOWN	AV	48	13.58	O	C	3	1		1								
11	033	062	014-011	2520	S	YORKTOWN	AV	48	15.14	S	C	2	2						1	1			
11	033	062	014-012	2520	S	YORKTOWN	AV	48	15.84	S	C	2	2						1	1			
11	033	062	014-013	2520	S	YORKTOWN	AV	48	13.52	S	B	2	2						1	1			
11	033	062	014-013PA	2275	S	UTICA	AV		0.00	S		2	1	1									
11	033	062	014-015	1980	E	22ND	ST	48	15.62	A	B	2	2						1	1			
11	033	062	014-016	2050	S	YORKTOWN	AV		0.00	A		2	1	1									
11	033	062	014-017	2038	S	YORKTOWN	AV	99	13.72	A	C	2	2						1	1			
11	033	062	014-018	2004	E	22ND	PL	48	14.01	S	C	2	2						1	1			
11	033	062	014-020	1980																			

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Sheet no	Atlas	BasinID	MHID	MHAdd	Dir	MHSTName	MHSfx	Dia	MHDepth	Surface	MHCons	Priority	# Def	1000	1020	1022	1030	1032	1045	1050	1052	1060	1210
11	033	062	014-522PA	2006	E	21ST	ST		0.00	A			2	1	1								
11	033	062	014-526	1902	E	21ST	ST	48	6.31	A	C		2	1		1							
11	033	062	014-552	2101	E	22ND	PL	48	13.90	S	B		2	2					1	1			
11	033	062	014-553	2102	E	22ND	ST	48	10.78	S	C		2	2					1	1			
11	033	062	014-887	1578	E	21ST	ST	48	18.92	O	C		2	2					1		1		
11	033	062	015-028	2121	S	YORKTOWN	AV	48	15.18	A	C		2	1					1				
11	033	062	015-031	2227	E	21ST	ST	48	14.32	C	C		2	2					1		1		
11	033	062	015-563	2206	S	LEWIS	AV	48	13.76	S	B		1	2					1	1			
11	033	062	015-564	2206	S	LEWIS	AV	48	4.62	S	B		2	2			1		1				
11	033	062	015-566	2206	S	LEWIS	AV	48	6.10	S	B		2	1					1				
11	033	062	14A-693	2104	E	26TH	ST	48	7.22	S	B		2	1					1				
11	033	062	14A-694	2111	E	26TH	ST	48	6.18	C	C		2	2					1		1		
11	033	062	14A-695	2120	E	25TH	PL	48	10.02	S	C		2	2					1		1		
11	033	062	14A-696	2207	E	26TH	ST	48	10.70	S	B		2	2					1			1	
11	033	062	14A-697	2225	E	26TH	ST		0.00	D			2	1	1								
11	033	062	14A-698	2251	E	26TH	ST	48	9.02	D	B		2	2					1		1		
11	033	062	14A-737	2201	E	25TH	PL	48	5.94	C	C		2	2					1		1		
11	033	062	14A-739	2249	E	25TH	PL	48	5.10	C	B		2	2					1				1
11	033	062	14A-744	2105	E	25TH	ST	48	7.80	C	C		2	2					1		1		
11	033	062	14A-745	2125	E	25TH	ST	48	11.94	D	C		2	1					1				
11	033	062	14A-746	2144	E	24TH	ST	48	10.80	C	C		2	2					1		1		
11	033	062	14A-747	2215	E	25TH	ST	48	11.40	D	B		2	1					1				
11	033	062	14A-748	2247	E	25TH	ST	48	9.34	S	C		2	2					1			1	
11	033	062	14A-757	2105	E	24TH	ST	48	3.85	C	C		2	2					1		1		
11	033	062	14A-760	2223	E	24TH	ST	48	9.32	D	C		2	1					1				
11	033	062	14A-761	2247	E	24TH	ST		0.00	S			2	1	1								
11	33	62	14A-762	2620	S	YORKTOWN	AV	48	11.60	C	B		1						1				
12	034	044	034-002	2703	S	RIVERSIDE	DR	48	10.90	S	B		2	2		1			1				
12	034	044	034-004	2703	S	RIVERSIDE	DR	48	8.34	S	C		2	2					1		1		
12	034	044	034-007	2703	S	RIVERSIDE	DR	48	11.63	D	B		2	1					1				
12	034	044	034-008	4	W	26TH	ST	42	8.66	D	B		2	1					1				
12	034	044	034-009	2400	S	RIVERSIDE	DR	48	7.82	D	B		2	2					1	1			
12	034	044	034-010	4	W	24TH	ST	48	7.22	D	B		2	2					1	1			
12	034	044	034-011	4	W	24TH	ST	48	7.44	S	B		2	1					1				
12	034	044	034-012	2703	S	RIVERSIDE	DR	48	14.52	S	C		2	2					1			1	
12	034	044	034-013	2703	S	RIVERSIDE	DR	48	9.94	S	C		2	1					1				
12	034	044	034-014	2703	S	RIVERSIDE	DR	48	10.06	S	B		2	2					1			1	
12	034	044	034-015	2703	S	RIVERSIDE	DR	48	7.18	D	C		2	2					1	1			
12	034	044	034-016	4	W	26TH	ST	48	5.58	D	C		2	2					1			1	
12	034	044	034-017	2500	S	RIVERSIDE	DR	48	6.36	A	C		2	2					1	1			
12	034	044	034-018	4	W	24TH	ST	48	7.17	D	B		2	1					1				
12	034	044	034-021	2703	S	RIVERSIDE	DR	48	13.72	S	B		2	2					1			1	
12	034	044	034-022	2700	S	RIVERSIDE	DR	48	11.70	A	B		2	1					1				
12	034	044	034-023	2703	S	RIVERSIDE	DR	48	13.22	S	C		2	2					1	1			
12	034	044	034-024	1	E	26TH	ST	48	11.28	S	C		2	1					1				
12	034	044	034-025	67	E	26TH	ST	48	11.22	S	C		2	1					1				
12	034	044	034-026	3	E	25TH	ST	48	10.70	S	B		2	2					1	1			
12	034	044	034-029	4	E	29TH	ST	48	4.76	S	B		2	2					1			1	
12	034	044	034-030	4	E	24TH	ST	48	5.00	S	B		2	2					1			1	
12	034	044	034-032	24	E	24TH	ST	48	12.92	S	C		2	1					1				
12	034	044	034-034	24	E	24TH	ST	48	14.74	S	B		2	2					1			1	
12	034	044	034-037	2421	S	BOSTON	AV	48	14.44	S	B		2	2					1		1		
12	034	044	034-038	130	E	24TH	ST	48	15.26	S	B		2	2					1	1			
12	034	044	034-039	138	E	24TH	ST		0.00	S			2	1	1								
12	034	044	034-041	125	E	24TH	ST	48	9.28	S	B		2	2					1	1			
12	034	044	034-042	115	E	24TH	ST		0.00	S			2	1	1								
12	034	044	034-043	115	E	24TH	ST	48	6.30	S	B		2	2					1	1			
12	034	044	034-048	2504	S	BOSTON	PL		0.00	S			2	1	1								
12	034	044	034-050	19	E	26TH	PL	48	8.68	S	B		2	2					1	1			
12	034	044	034-051	116	E	26TH	ST	48	11.08	S	B		2	1					1				
12	034	044	034-054	32	E	26TH	PL	48	11.84	S	B		2	2					1	1			
12	034	044	034-062	2800	S	BOSTON	AV	48	8.12	S	B		1	3			1		1	1			
12	034	044	034-064	2731	S	BOSTON	AV	48	9.38	S	B		2	1					1				
12	034	044	034-066	2651	S	BOSTON	PL	48	6.28	C	B		2	2					1		1		
12	034	044	034-069	2550	S	CINCINNATI	AV	48	12.16	S													

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Sheet no	Atlas	BasinID	MHID	MHAdd	Dir	MHStName	MHStx	Dia	MHDepth	Surface	MHCons	Priority	# Def	1000	1020	1022	1030	1032	1045	1050	1052	1060	1210
12	034	044	034-096	2440	S	OWASSO	AV	48	0.00	S		2	1	1									
12	034	044	034-098	2543	S	CINCINNATI	AV	48	10.90	S	B	2	1						1				
12	034	044	034-099	2543	S	CINCINNATI	AV	48	10.84	S	B	2	1						1				
12	034	044	034-100	2543	S	CINCINNATI	AV	48	10.26	S	B	2	2						1	1			
12	034	044	034-103	218	E	25TH	ST	48	13.12	S	B	2	2									1	
12	034	044	034-105	2534	S	NORFOLK	AV	48	9.30	A	B	2	2						1	1			
12	034	044	034-106	2810	S	NORFOLK	AV	48	13.38	S	B	1	3					1	1	1			
12	034	044	034-107	219	E	25TH	ST		0.00	D		2	1	1									
12	034	044	034-108	214	E	24TH	PL		0.00			2	1	1									
12	034	044	034-110	2414	S	CINCINNATI	AV	48	9.76	A	B	2	2						1		1		
12	034	044	034-112	2308	S	CINCINNATI	AV	48	8.86	A	B	1	1					1					
12	034	044	034-114	223	E	25TH	ST		0.00	S		2	1	1									
12	034	044	034-116	1110	E	24TH	PL	48	11.54	S	B	2	1						1				
12	034	044	034-118	1111	E	24TH	PL	48	10.98	A	B	2	2						1	1			
12	034	044	034-119	1120	E	24TH	PL	48	10.62	A	B	2	1						1				
12	034	044	034-121	240	E	24TH	ST	48	12.32	A	B	2	2						1	1			
12	034	044	034-123	240	E	24TH	ST	48	14.38	A	B	2	1						1				
12	034	044	034-124	240	S	WOODWARD	BV	48	17.78	S	B	1	2					1	1				
12	034	044	034-125	2168	S	NORFOLK	AV	48	11.78	A	B	2	2						1	1			
12	034	044	034-126	2168	S	NORFOLK	AV	48	9.44	S	B	1	3					1	1	1			
12	034	044	034-129	1124	E	SUNSET	DR	48	14.36	S	B	1	2					1	1				
12	034	044	034-130	1136	E	SUNSET	DR	48	15.18	S	B	2	3		1				1			1	
12	034	044	034-135	1020	E	21ST	ST	48	12.38	S	B	2	2						1	1			
12	034	044	034-137	2168	S	NORFOLK	AV	48	8.60	A	B	2	2						1	1			
12	034	044	034-138	1107	E	SUNSET	DR	48	11.82	S	B	1	3					1	1			1	
12	034	044	034-139	1107	E	SUNSET	DR	48	10.20	S	B	1	1					1					
12	034	044	034-141	2129	S	NORFOLK	AV		0.00	S		2	1	1									
12	034	044	034-143	2112	S	NORFOLK	AV	48	12.80	A	B	1	3					1	1	1			
12	034	044	034-144	1118	E	21ST	ST	48	11.88	S	B	1	3					1	1	1			
12	034	044	034-145	2130	S	OWASSO	AV		0.00	S		2	1	1									
12	034	044	034-147	2141	S	NORFOLK	TR	48	14.60	S	B	2	2						1			1	
12	034	044	034-148	2167	S	NORFOLK	TR	48	12.04	S	B	2	1						1				
12	034	044	034-149	2121	S	OWASSO	AV	48	9.52	A	B	2	1						1				
12	034	044	034-158A	1136	E	25TH	ST	48	15.34	C	B	2	2									1	
12	034	044	034-159	2540	E	25TH	PL	48	11.82	S	B	2	1						1				
12	034	044	034-162	1136	E	25TH	ST	48	12.00	C	B	1	3					1	1	1			
12	034	044	034-163	1137	E	25TH	ST		0.00	S		2	1	1									
12	034	044	034-165	2424	S	WOODWARD	BV	48	7.36	C	B	1	2					1	1				
12	034	044	034-166	2421	S	WOODWARD	BV		0.00	S		3	1		1								
12	034	044	034-167	2407	S	OWASSO	AV		0.00	S		2	1	1									
12	034	044	034-168	5407	S	OWASSO	AV	48	15.98	S	B	1	2					1	1				
12	034	044	034-169	1231	E	24TH	PL	48	12.00	A	B	2	2						1	1			
12	034	044	034-170	1244	E	24TH	ST	48	5.78	S	B	1	1					1					
12	034	044	034-173	2441	S	OWASSO	PL	48	11.34	S	B	2	2						1			1	
12	034	044	034-174	2441	S	OWASSO	PL	48	8.22	S	B	2	2						1			1	
12	034	044	034-177	2452	S	PEORIA	AV	48	11.76	A	B	2	3		1				1	1			
12	034	044	034-180	2420	S	OWASSO	PL	48	13.82	A	B	2	2						1	1			
12	034	044	034-181	2156	S	OWASSO	PL	48	9.88	A	B	2	1						1				
12	034	044	034-182	2156	S	OWASSO	PL	48	7.38	S	B	1	2					1	1				
12	034	044	034-183	2143	S	OWASSO	AV	48	3.56	S	B	1	1					1					
12	034	044	034-184	2175	S	OWASSO	AV	48	6.98	S	B	2	1						1				
12	034	044	034-185	1228	E	21ST	PL	48	9.40	A	B	2	2						1	1			
12	034	044	034-186	1223	E	21ST	PL	48	12.12	A	B	2	2						1	1			
12	034	044	034-187	1219	E	21ST	PL	48	13.36	S	B	2	2						1	1			
12	034	044	034-188	1209	E	21ST	PL	48	11.36	S	B	2	2						1	1			
12	034	044	034-189	2116	S	PEORIA	AV	48	10.66	S	B	2	1						1				
12	034	044	034-473	2530	S	NORFOLK	AV	48	9.28	S	B	2	2						1	1			
12	034	044	034-496	2642	S	BOSTON	AV	48	8.58	A	C	2	2						1	1			
12	061	044	034-515	2667	S	BOSTON	PL	70	17.76	S	C	2	1						1				
12	034	044	034-516	2645	S	BOSTON	AV	60	11.34	S	C	2	1						1				
12	034	044	034-516A	2550	S	CINCINNATI	AV	48	11.64	S	B	1	3					1	1			1	
12	034	044	034-519	2450	S	CINCINNATI	AV	60	7.60	C	C	2	2						1	1			
12	034	044	034-528	1215	E	24TH	PL	60	16.60	A	C	2	2						1	1			
12	034	044	034-531	2161	S	MADISON	AV	48	12.00	A	C	2	2						1	1			
12	034	044	034-565	2642	S	BOSTON	AV		0.00			2	1	1									
12	034	044	034-581	2442	S	CINCINNATI	AV	48	8.04	S	C	2	2						1	1			
13	059	045	11A-418	2408	E	30TH	ST	48	8.02	S	B	2	2						1			1	
13	059	045	11A-419	2433	E	31ST	ST	48	22.14	S	B	2	2						1			1	
13	059	045	11A-421	2521	E	31ST	ST	48	15.12	S	B	2	2						1	1			
13	059	045	11A-422	2545	E	31ST	ST		0.00	S		2	1	1									
13	059	045	11A-423	2511	E	31ST	ST	48	5.64	A	B	2	2						1	1			
13	059	045	11A-427	3028	E	31ST	ST	48	4.00	A	B	2	2						1			1	
13	059	045	11A-430	2404	E	30TH	ST	48	9.30	S	B	2	1						1				
13	059	045	11A-431	2424	E	31ST	ST		0.00	S		2	1	1									
13	059	045	11A-432	2430	E	29TH	PL		0.00			2	1	1									
13	059	045	11A-433	2430	E	29TH	PL	48	12.88	S	B	2	2						1	1			
13	059	062	14A-1000	2635	E	28TH	ST		0.00	S		2	1	1									
13	059	062	14A-1002	2403	E	27TH	ST	48	7.50	A	C	2	2						1	1			
13	059	062	14A-728	2536	E	26TH	ST	48	7.28	C	B	2	3		1				1	1			
13	059	062	14A-778	2404	E	26TH	PL	50	5.40	C	B	2	1						1				
13	059	062	14A-779	2412	E	26TH	PL	4															

Sheet no	Atlas	BasinID	MHID	MHAdd	Dir	MHStName	MHSfx	Dia	MHDepth	Surface	MHCons	Priority	# Def	1000	1020	1022	1030	1032	1045	1050	1052	1060	1210
13	059	062	14A-786	2547	E	26TH	PL	48	7.80	A	B	2	1						1				
13	059	062	14A-787	2559	E	26TH	PL	48	8.92	A	B	2	2						1		1		
13	059	062	14A-788	2455	E	27TH	PL	48	6.25	S	B	2	2						1	1			
13	059	062	14A-801	2404	E	27TH	PL	48	11.36	S	B	2	1						1				
13	059	062	14A-802	2410	E	27TH	PL	48	11.57	S	B	2	2						1	1			
13	059	062	14A-803	2405	E	28TH	ST	48	8.20	S	B	2	1		1								
13	059	062	14A-804	2415	E	28TH	ST	48	7.06	S	B	2	2						1	1			
13	059	062	14A-805	2410	E	27TH	PL	48	15.47	S	B	2	2						1			1	
13	059	062	14A-806	2439	E	27TH	PL	48	13.96	S	B	2	2						1	1			
13	059	062	14A-807	2445	E	27TH	PL	48	4.98	S	B	2	2						1		1		
13	059	062	14A-808	2480	E	27TH	PL	48	4.62	S	B	2	1						1				
13	059	062	14A-809	2480	E	27TH	PL	48	3.95	D	B	2	2		1				1				
13	059	062	14A-810	2451	E	28TH	ST	48	9.68	D	B	2	2						1			1	
13	059	062	14A-811	2445	E	28TH	ST	48	13.09	D	B	2	2						1		1		
13	059	062	14A-812	2451	E	28TH	ST	48	9.59	S	B	2	2						1			1	
13	059	062	14A-813	2450	E	28TH	ST	48	6.63	S	B	2	3		1				1			1	
13	059	062	14A-814	2440	E	28TH	ST	48	8.86	S	B	2	1						1				
13	059	062	14A-815	2436	E	28TH	ST	48	8.46	S	B	2	2							1			
13	059	062	14A-816	2436	E	28TH	ST	48	9.08	S	B	2	3		1				1			1	
13	059	062	14A-817	2436	E	28TH	ST	48	5.99	S	B	2	3		1				1			1	
13	059	062	14A-818	2436	E	28TH		48	9.58	S	B	2	1						1				
13	059	062	14A-819	2412	E	28TH	ST	48	8.06	D	B	2	1						1				
13	059	062	14A-821	2465	E	29TH	ST	48	7.87	D	B	2	1						1				
13	059	062	14A-823	2501	E	28TH	ST	48	5.04	S	B	2	1						1				
13	059	062	14A-824	2511	E	28TH	ST	48	11.20	D	B	2	1						1				
13	059	062	14A-825	2511	E	20TH	ST	48	10.17	S	B	2	1						1				
13	059	062	14A-826	2501	E	28TH	ST	48	4.88	O	B	2	1						1				
13	059	062	14A-827	2504	E	28TH	ST	48	9.53	S	B	2	3		1				1			1	
13	059	062	14A-828	2525	E	30TH	ST	48	10.85	D	B	2	1						1				
13	059	062	14A-896	2660	S	BIRMINGHAM	AV	48	17.78	S	C	2	2						1	1			
13	059	062	14A-898	2660	S	BIRMINGHAM	PL	48	10.78	D	C	2	2						1		1		
13	059	062	14A-899	2660	S	BIRMINGHAM	PL		0.00			2	1	1									
13	059	062	14A-900	2660	S	BIRMINGHAM	PL	48	15.57	S	C	2	3		1				1			1	
13	059	062	14A-901	2660	S	BIRMINGHAM	AV	48	17.60	D	C	2	3		1				1			1	
13	059	062	14A-902	2660	S	BIRMINGHAM	PL	48	5.66	S	C	2	2						1			1	
13	059	062	14A-903	2660	S	BIRMINGHAM	AV	48	7.22	S	B	2	3		1				1			1	
13	059	062	14A-906	2660	S	BIRMINGHAM	PL	48	17.02	S	C	2	2						1	1			
13	059	062	14A-907	2660	S	BIRMINGHAM	PL	48	16.14	S	C	2	2						1	1			
13	059	062	14A-908	2660	S	BIRMINGHAM	AV	48	17.44	S	C	2	3		1				1			1	
13	059	062	14A-909	2660	S	BIRMINGHAM	PL	48	7.13	S	B	2	2						1			1	
13	059	062	14A-927	2703	E	27TH	PL	48	8.32	S	C	2	3		1				1	1			
13	059	062	14A-974	2617	E	26TH	PL	48	12.59	S	C	2	2						1	1			
13	059	062	14A-994	2675	S	IRMINGHAM	PL		0.00	S		2	1	1									
13	059	062	14A-995	2675	S	BIRMINGHAM	PL		0.00	S		2	1	1									
13	059	062	14A-997	2721	S	BIRMINGHAM	PL	48	12.36	S	C	2	2						1	1			
14	060	045	011-235	3020	S	TRENTON	AV		0.00	S		2	1	1									
14	060	045	011-236	1550	E	29TH	ST	48	9.44	S	C	2	1						1				
14	060	045	011-239	1505	E	29TH	ST	48	14.90	S	C	2	2		1				1				
14	060	045	011-240	1615	E	29TH	ST	48	14.20	S	B	2	1						1				
14	060	045	011-241	1615	E	29TH	ST	99	14.76	S	C	2	1						1				
14	060	045	011-242	2727	S	ROCKFORD	AV	48	15.64	S	C	2	1						1				
14	060	045	011-311	1530	E	27TH	ST		0.00	S		2	1	1									
14	060	045	011-314	1550	E	29TH	ST	48	14.72	S	C	1	2				1						
14	060	045	011-315	1550	S	ROCKFORD	AV	48	14.14	S	C	2	1						1				
14	060	045	011-316	1550	S	ROCKFORD	AV	48	16.46	S	C	2	1						1				
14	060	045	011-317	2937	S	ROCKFORD	AV	48	21.28	S	C	2	1						1				
14	060	045	011-318	1360	E	29TH	ST	48	13.32	S	C	2	1						1				
14	060	045	011-320	1607	E	30TH	PL	48	9.16	C	C	2	2						1		1		
14	060	045	011-322	3025	E	30TH	PL	48	7.56	S	C	2	1						1				
14	060	045	011-323	3048	S	TROOST	AV	48	10.56	D	C	2	2						1		1		
14	060	045	011-328	1623	E	29TH	ST	48	14.32	S	C	2	1						1				
14	060	045	011-329	2894	S	UTICA	AV	48	8.36	S	C	2	1						1				
14	060	045	011-330	2834	S	UTICA	AV		0.00	S		2	1	1									
14	060	045	011-332	1610	E	29TH	ST	48	10.16	S	C	2	1						1				
14	060	045	011-333	1610	E	29TH	ST	48	11.94	S	C	2	1						1				
14	060	045	011-334	1610	E	29TH	ST	48	11.76	S	C	2	1						1				
14	060	045	011-335	1610	E	29TH	ST	48	12.10	S	C	2	1						1				
14	060	045	011-336	1610	E	29TH	ST	48	11.26	S	B	2	2						1			1	
14	060	045	011-339	2929	S	UTICA	AV	48	6.34	S	C	2	2						1			1	
14	060	045	011-340	2877	S	UTICA	AV	48	6.93	S	C	2	2						1			1	
14	060	045	011-341	1731	E	30TH	ST	48	10.06	S	C	2	1						1				
14	060	045	011-342	1744	E	29TH	ST	48	8.54	S	C	2	2						1			1	
14	060	045	011-343	1631	E	30TH	PL	48	12.00	D	C	2	1						1				
14	060	045	011-344	1630	E	30TH	PL	48	12.62	D	B	2	1						1				
14	060	045	011-345	1631	E	31ST	ST		0.00	D		2	1	1									
14	060	045	011-346	1714	E	30TH	PL	48	9.72	C	C	2	1						1				
14	060	045	011-348	1735	E	30TH	PL	48	10.52	S	C	2	2						1			1	
14	060	045	011-349	1742	E	30TH	PL	48	7.40	S	C	2	1						1				
14	060	045	011-351	3020	S	WHEELING	AV	48	9.78	D	C	2	1						1				
14	060	045	011-352	1782	E	30TH	ST	48	10.44	D	C	2	1						1				
14	060	045																					

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 0754R

DRAWING NUMBER
ES 96-07

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REORDER BY NUMBER 0754R

Sheet no	Atlas	BasinID	MHID	MHAdd	Dir	MHStName	MHSfx	Dia	MHDepth	Surface	MHCons	Priority	# Def	1000	1020	1022	1030	1032	1045	1050	1052	1060	1210
14	060	045	011-361	330	S	YORKTOWN	AV	48	7.98	S	C	2	2						1	1			
14	060	045	011-362	2109	E	30TH	PL	48	11.64	S	C	2	1						1				
14	060	045	011-363	2109	E	30TH	PL		0.00	S		2	1	1									
14	060	045	011-366	2141	E	30TH	ST	48	7.86	S	C	2	1						1				
14	060	045	011-367	2117	E	29TH	ST	48	7.12	S	C	2	2						1		1		
14	060	045	011-368	2118	E	29TH	ST		0.00	S		2	1	1									
14	060	045	011-369	2121	E	30TH	ST	48	5.68	S	C	2	1						1				
14	060	045	011-370	2108	E	29TH	ST		0.00	S		2	1	1									
14	060	045	011-371	2930	S	YORKTOWN	AV	48	4.04	S	C	2	1						1				
14	060	045	011-372	2916	S	YORKTOWN	AV	48	6.34	S	C	2	2						1	1			
14	060	045	011-373	2802	S	YORKTOWN	AV	48	9.54	S	C	2	1						1				
14	060	045	011-374	1717	E	31ST	ST	48	8.14	S	C	2	1						1				
14	060	045	011-375	1723	E	31ST	ST	48	10.28	S	C	2	1						1				
14	060	045	011-376	1748	E	30TH	PL	48	10.02	S	C	2	2			1			1				
14	060	045	011-377	1820	E	30TH	PL		0.00	S		2	1	1					1				
14	060	045	011-555	3025	E	30TH	PL	48	18.64	A	C	2	2						1		1		
14	060	045	011-556	1607	E	30TH	PL	48	17.58	S	C	2	1						1				
14	060	045	011-557	1607	E	30TH	PL	48	20.40	S	C	2	1						1				
14	060	045	011-559	1505	E	29TH	ST		0.00	S		2	1	1									
14	060	045	011-560	2727	S	ROCKFORD	AV	48	12.00	S	C	2	1						1				
14	060	045	011-561	2727	S	ROCKFORD	AV	48	17.90	S	C	2	1						1				
14	060	045	011-562	2727	S	ROCKFORD	AV	48	20.20	S	C	2	1						1				
14	060	045	011-563	2727	S	ROCKFORD	AV	48	15.62	S	C	2	1						1				
14	060	045	011-564	2727	S	ROCKFORD	AV	48	14.12	S	C	2	1						1				
14	060	045	011-731	3100	E	31ST	ST	48	17.02	C	C	2	2						1	1			
14	060	045	011-732	1533	E	31ST	PL	48	5.34	C	C	2	2						1			1	
14	060	045	011-769	1776	E	30TH	ST	48	7.42	S	C	2	1			1							
14	060	045	011-789	3021	S	ROCKFORD	AV		0.00	S		2	1	1									
14	060	045	011-790	3015	S	ROCKFORD	AV		0.00	S		2	1	1									
14	060	045	011-792	3015	S	ROCKFORD	AV		0.00	D		2	1	1									
14	060	045	011-794	3020	S	TRENTON	AV		0.00	S		2	1	1									
14	060	045	011-795	3020	S	TRENTON	AV		0.00	S		2	1	1									
14	060	045	011-796	3020	S	TRENTON	AV		0.00	S		2	1	1									
14	060	045	012-172	2927	S	QUAKER	AV	48	7.60	S	C	2	1						1				
14	060	045	012-173	2905	S	QUAKER	AV	48	6.74	S	C	2	1						1				
14	060	045	012-174	1345	E	29TH	ST	48	8.74	S	C	2	2			1			1				
14	060	045	012-175	1359	E	29TH	ST	48	10.90	S	C	2	1						1				
14	060	045	012-176	1835	E	29TH	ST	48	10.69	C	C	2	2						1			1	
14	060	045	012-178	1359	E	29TH	ST		0.00			2	1	1									
14	060	045	012-179	1385	E	29TH	ST	48	7.88	S	C	2	1						1				
14	060	045	012-182	3008	S	QUAKER	AV	48	12.46	S	C	2	1						1				
14	060	045	012-183	2946	S	QUAKER	AV	48	10.76	S	C	2	1	1									
14	060	045	012-184	2920	S	QUAKER	AV	48	9.04	S	C	2	2								1		
14	060	045	013-246	2690	S	TERWILLIGER	BL	48	8.80	S	B	2	1						1				
14	060	045	013-247	2690	S	TERWILLEGER	BL	48	8.28	S	B	2	1						1				
14	060	045	013-248	1801	F	27TH	ST	48	7.72	S	B	2	2						1	1			
14	060	045	013-249	1801	E	27TH	ST	48	8.45	S	B	2	1						1				
14	060	045	013-250	1630	E	26TH	PL	48	3.66	C	B	2	3			1			1		1		
14	060	045	013-253	2428	S	UTICA	AV	48	6.82	S	B	2	1						1				
14	060	045	013-254	2404	S	UTICA	AV	48	7.00	S	B	1	2					1	1				
14	060	045	013-260	1630	E	26TH	PL	48	8.58	S	B	2	1						1				
14	060	045	013-265	2664	S	TRENTON	AV	48	13.26	C	B	2	1						1				
14	060	045	013-270	1536	S	TERWILLEGER	BL	48	13.38	S	B	2	1						1				
14	060	045	013-285	1503	E	27TH	ST	48	6.06	S	B	2	1						1				
14	060	045	013-305	1384	E	26TH	PL	48	12.84	S	B	2	1						1				
14	060	045	013-308	1382	E	27TH	ST	48	7.42	S	B	2	2						1	1			
14	060	045	013-565			PHILBROOK AREA			0.00	S		2	1	1									
14	060	045	013-566	2690	S	TERWILLIGER	BL	48	9.90	S	B	2	1						1				
14	060	045	013-567	2690	S	TERWILLEGER	BL	48	9.56	S	B	2	1						1				
14	060	045	013-568	2690	S	TERWILLEGER	BL	48	12.06	S	B	2	2						1	1			
14	060	045	013-569	1801	E	27TH	PL	48	13.94	S	B	2	1						1				
14	060	045	013-570	2108	E	29TH	ST	48	10.59	S	B	2	1						1				
14	060																						

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
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REDESIGNER BY NUMBER 07549DRAWING NUMBER
ES 96-07PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
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REDESIGNER BY NUMBER 07549

Sheet no	Atlas	BasinID	MHID	MHAdd	Dir	MHStName	MHSfx	Dia	MHDepth	Surface	MHCons	Priority	# Def	1000	1020	1022	1030	1032	1045	1050	1052	1060	1210
14	060	045	033-062	1344	E	27TH	ST	48	12.24	S	B	2	2						1	1			
14	060	045	033-063	1360	E	27TH	ST	48	8.20	S	B	2	2						1	1			
14	060	045	033-078	2807	S	PEORIA	AV	48	11.28	S	B	1	2						1			1	
14	060	045	033-079	2805	S	PEORIA	AV	48	7.64	C	B	2	2						1	1			
14	060	045	033-080	1308	E	27TH	PL	48	7.44	S	B	2	2						1			1	
14	060	045	11A-403	2151	E	31ST	ST	48	9.00	C	B	2	1						1				
14	060	045	11A-404	2151	E	31ST	ST	48	14.20	S	B	2	2						1			1	
14	060	045	11A-405	2131	E	31ST	ST	48	11.62	S	B	2	2						1	1			
14	060	045	11A-406	2102	E	30TH	PL	48	11.96	S	B	2	2						1	1			
14	060	045	11A-408	2222	E	30TH	PL	48	8.20	S	B	2	2						1			1	
14	060	045	11A-409	2215	E	30TH	PL	48	10.60	S	B	2	2						1		1		
14	060	045	11A-410	2215	E	30TH	PL		0.00	S		2	1	1					1				
14	060	045	11A-412	2232	E	30TH	PL	48	8.40	S	B	2	1						1				
14	060	045	11A-413	2242	E	30TH	PL		0.00	S		2	1	1									
14	060	045	11A-416	2400	E	31ST	ST	48	10.54	S	B	2	2						1	1			
14	060	062	14A-762	2620	S	YORKTOWN	AV	48	11.60	C	B	2	1						1				
14	060	062	14A-764	2140	E	26TH	ST	48	5.07	S	B	2	1						1				
14	060	062	14A-765	2216	E	26TH	ST	48	7.40	S	B	2	1						1				
14	060	062	14A-766	2215	E	26TH	PL	48	6.73	S	B	2	2						1	1			
14	060	062	14A-767	2240	E	26TH	ST	48	7.15	S	B	2	2						1	1			
14	060	062	14A-770	2121	E	26TH	PL	48	15.60	D	C	2	1						1				
14	060	062	14A-771	2143	E	26TH	PL	48	13.32	S	B	2	1						1				
14	060	062	14A-772	2157	E	26TH	PL	48	12.23	O	B	2	1						1				
14	060	062	14A-773	2165	E	26TH	PL	48	12.38	D	B	2	2		1				1				
14	060	062	14A-774	2201	E	26TH	PL	48	13.80	S	B	2	1						1				
14	060	062	14A-775	2201	E	26TH	PL	48	13.16	S	B	2	1						1				
14	060	062	14A-791	2166	E	26TH	PL	48	8.50	S	B	2	1						1				
14	060	062	14A-795	2152	E	26TH	PL	48	7.76	D	B	2	2						1	1			
14	060	062	14A-798	2204	E	27TH	ST	48	6.48	S	B	2	1						1				
14	060	062	14A-799	2723	S	ZUNIS	AV	48	9.05	S	B	2	1						1				
14	060	062	14A-800	2221	S	FOREST	ST	48	8.05	D	B	2	1						1				
14	060	062	14A-832	2116	E	26TH	PL	48	13.78	S	B	2	1						1				
14	060	062	14A-833	2116	E	26TH	PL	48	11.66	S	B	2	3		1				1	1			
14	060	062	14A-834	2115	E	27TH	ST	48	10.52	S	B	2	2		1				1				
14	060	062	14A-835	2625	S	YORKTOWN	AV		0.00	D		2	1	1									
14	060	062	14A-836	1866	E	27TH	ST	48	6.49	S	B	2	1						1				
14	060	062	14A-837	1860	E	27TH	ST	48	5.37	S	C	2	1						1				
14	060	062	14A-838	1866	E	27TH	ST	48	4.84	C	B	2	2						1	1			
14	060	062	14A-840	2800	S	YORKTOWN	AV		0.00	S		2	2	2									
14	060	062	14A-841	2158	E	27TH	ST	48	8.86	S	B	2	1						1				
14	060	062	14A-842	2138	E	27TH	ST	48	5.28	C	B	2	1						1				
14	060	062	14A-843	2723	S	ZUNIS	AV	48	5.38	C	B	2	2						1	1			
14	060	062	14A-844	2172	E	27TH	ST	48	7.53	S	B	2	1						1				
14	060	062	14A-845	2125	S	FOREST	ST	48	7.94	S	B	2	2						1	1			
14	060	062	14A-846	2210	S	FOREST	ST	48	7.30	S	B	2	2		1				1				
14	060	062	14A-847	2210	S	FOREST	ST	48	6.50	A	B	2	3		1				1	1			
14	060	062	14A-848	2142	S	FOREST	ST	48	13.18	D	B	2	1						1				
14	060	062	14A-849	2142	S	FOREST	BV		0.00	S		2	1	1									
14	060	062	14A-851	2223	E	29TH	ST		0.00	O		2	1	1									
14	060	062	14A-856	2216	E	29TH	ST		0.00	S		2	1	1									
14	060	062	14A-858	2233	E	30TH	ST	48	12.79	S	B	2	1						1				
14	060	062	14A-915	2520	S	YORKTOWN	AV	48	15.22	A	C	2	2						1			1	
14	060	062	14A-937	1831	E	27TH	ST		0.00			2	1	1									
15	061	045	012-114	3048	S	BOSTON	PL	48	11.48	A	B	2	2						1		1		
15	061	045	012-116	3003	S	BOSTON	PL	48	5.46	G	B	2	2						1			1	
15	061	045	012-126	3029	S	BOSTON	CT	48	6.38	S	B	2	2						1			1	
15	061	045	012-127	3002	S	CINCINNATI	AV		0.00	S		2	1	1									
15	061	045	012-129	2911	S	BOSTON	CT	48	4.07	S	B	2	1						1				
15	061	045	012-137	3030	S	DETROIT	AV	48	5.74	S	B	2	2						1	1			
15	061	045	012-142	3103	S	DETROIT	AV	48	9.78	A	B	2	1						1				
15	061	045	012-143	3103	S	DETROIT	AV	48	10.82	A	B	2	1						1				
15	061	045	012-147	3054	S	MADISON	AV	48	9.64	S	B	2	2						1	1			
15																							

Sheet no	Atlas	BasinID	MHID	MHAdd	Dir	MHStName	MHSfx	Dia	MHDepth	Surface	MHCons	Priority	# Def	1000	1020	1022	1030	1032	1045	1050	1052	1060	1210
15	061	045	033-022	2822	S	CINCINNATI	AV	48	9.41	S	B	2	1						1				
15	061	045	033-023	2812	S	CINCINNATI	AV	48	9.12	S	B	2	2						1	1			
15	061	045	033-024	2804	S	CINCINNATI	AV	48	14.82	S	B	2	2		1				1				
15	061	045	033-026	2704	S	CINCINNATI	AV	48	10.31	S	B	2	1						1				
15	061	045	033-030	203	E	27TH	PL	48	8.72	S	B	2	2						1			1	
15	061	045	033-031	228	E	27TH	ST	48	9.98	S	B	2	2						1	1			
15	061	045	033-032	220	S	HAZEL	BL	48	11.76	S	B	2	2						1			1	
15	061	045	033-033	202	S	HAZEL	BL	48	10.64	S	B	2	2						1	1			
15	061	045	033-035	1205	E	27TH	ST	48	7.48	A	B	2	1						1				
15	061	045	033-036	1212	S	HAZEL	BL	48	12.58	S	B	2	2						1	1			
15	061	045	033-037	1223	E	27TH	ST	48	13.34	S	B	2	1						1				
15	061	045	033-038	1245	E	27TH	ST	48	14.18	S	B	2	2						1			1	
15	061	045	033-039	1268	S	HAZEL	BL	48	10.72	S	B	2	3		1				1			1	
15	061	045	033-052	252	E	27TH	ST	48	9.36	S	B	2	1						1				
15	061	045	033-053	1207	E	27TH	PL	48	9.36	S	B	2	2						1	1			
15	061	045	033-054	1235	E	27TH	PL	48	10.20	S	B	2	1						1				
15	061	045	033-055	1251	E	27TH	PL	48	10.14	S	B	2	2						1	1			
15	061	045	033-056	1251	E	27TH	PL	48	7.44	A	B	2	1						1				
15	061	045	033-057	1256	E	27TH	PL	48	8.38	A	B	2	1						1				
15	061	045	033-058	1260	E	27TH	PL	48	7.44	S	B	2	1						1				
15	061	045	033-064	237	E	28TH	ST	48	9.42	S	B	2	1						1				
15	061	045	033-066	2740	S	WOODWARD	ST	48	6.62	A	B	2	2						1	1			
15	061	045	033-067	1221	E	28TH	ST		0.00			2	1	1									
15	061	045	033-068	1243	E	28TH	ST	48	14.80	S	B	2	2						1	1			
15	061	045	033-069	1261	E	28TH	ST		0.00			2	1	1									
15	061	045	033-070	214	E	28TH	ST	48	9.42	S	B	2	1						1				
15	061	045	033-071	303	E	29TH	ST	48	14.66	S	B	2	2						1	1			
15	061	045	033-072	327	E	29TH	ST	48	11.16	S	B	2	2						1	1			
15	061	045	033-073	2815	S	WOODWARD	BL	48	10.44	A	B	2	2						1	1			
15	061	045	033-074	2815	S	WOODWARD	BL	48	10.32	S	B	2	1						1				
15	061	045	033-075	1212	E	28TH	ST		0.00			2	1	1									
15	061	045	033-076	1239	E	29TH	ST	48	12.80	S	B	2	2						1	1			
15	061	045	033-082	204	E	29TH	ST	48	12.10	S	B	2	1						1				
15	061	045	033-083	2925	S	CINCINNATI	AV	48	10.02	S	B	2	1						1				
15	061	045	033-084	2912	S	DETROIT	AV	48	7.34	A	B	2	1						1				
15	061	045	033-085	321	E	29TH	PL	48	10.54	S	B	2	2						1			1	
15	061	045	033-086	2900	E	118TH	ST	48	10.40	S	B	2	3		1				1			1	
15	061	045	033-087	1212	E	29TH	ST	48	10.28	S	C	2	1						1				
15	061	045	033-088	1240	E	29TH	ST	48	10.48	S	B	2	2						1	1			
15	061	045	033-089	2904	S	PEORIA	AV	48	8.02	S	B	2	1						1				
15	061	045	033-090	320	E	29TH	PL	48	7.56	S	B	2	2						1			1	
15	061	045	033-091	2932	E	118TH	ST	48	7.04	S	B	2	2						1	1			
15	061	045	033-092	2929	E	118TH	ST	48	7.30	C	B	2	2						1	1			
15	061	045	033-093	1212	E	29TH	PL		0.00			2	1	1									
15	061	045	033-094	1234	E	29TH	PL	48	7.32	S	B	2	2						1			1	
15	061	045	033-095		E	29TH	PL	48	8.01	S	B	2	1						1				
15	061	045	033-096	2949	E	118TH	ST	48	9.06	S	B	2	1						1				
15	061	045	033-098	2949	E	118TH	ST		0.00			2	1	1									
15	061	045	033-099	2935	S	CINCINNATI	AV	48	6.06	S	B	2	1						1				
15	061	045	033-100	2953	S	CINCINNATI	AV	48	5.12	S	B	2	1						1				
15	061	045	033-101	2965	S	CINCINNATI	AV	48	4.00	S	B	2	1						1				
15	061	045	033-102	2962	S	DETROIT	AV		0.00			2	1	1									
15	061	045	033-104	2950	S	BOSTON	PL	48	6.60	S	B	2	1						1				
15	061	045	033-105	3002	S	BOSTON	PL	48	6.14	S	B	2	2						1			1	
15	061	045	033-106	3016	S	BOSTON	PL	48	6.02	S	B	2	1						1				
15	061	045	033-107	3032	S	BOSTON	PL	48	5.78	S	B	2	1						1				
15	061	045	033-108	3048	S	BOSTON	PL	48	5.22	S	B	2	2						1			1	
15	061	045	033-109	3100	S	RIVERSIDE	DR	48	13.64	A	B	2	1						1				
15	061	045	033-736	3000	S	RIVERSIDE	DR	48	16.30	S	C	2	2						1			1	
15	061	045	033-737	3000	S	RIVERSIDE	DR	72	11.84	S	C	2	3		1				1			1	
15	061	045	033-738	2800	S	RIVERSIDE	DR	72	8.46	S	C	2	1						1				
15	061	045	033-739	2800	S	RIVERSIDE	DR	72	8.62	S	C	2	2						1			1	
15	061	045	033-740	2800	S	RIVERSIDE	DR	70	8.32	S	C	2	3		1				1	1			
15	061	045	033-741	2800	S	RIVERSIDE	DR	70	5.96	S	C	2	1						1				
15	061	045	033-742	2800	S	RIVERSIDE	DR	70	5.76	S	C	2	1						1				
15	061	045	033-743	2800	S	RIVERSIDE	DR	70	5.98	S	C	2	2						1	1			
15	061	045	033-744	2800	S	RIVERSIDE	DR	70	6.02	S	C	2	1						1				
15	061	045	033-746	2800	S	RIVERSIDE	DR	70	11.80	C	C	2	1						1				
15	061	045	033-773	1256	E	27TH	PL	48	8.32	C	B	2	1						1				
15	061	045	033-774	1260	E	27TH	PL	48	7.88	S	C	2	1						1				
15	061	045	033-777	214	E	27TH	PL	48	3.82	S	B	2	2						1	1			
15	061	045	033-778	2800	S	RIVERSIDE	DR	48	13.24	S	C	2	2						1	1			
15	061	045	033-784	2908	S	CINCINNATI	AV	48	9.36	S	B	2	2						1	1			
16	095	045	011-211	1322	E	32ND	PL	48	10.64	S	B	2	2						1			1	
16	095	045	011-213	1323	E	32ND	PL	48	9.70	S	C	2	1		1								
16	095	045	011-214	1337	E	32ND	PL	48	6.64	S	C	1	1					1					
16	095	045	011-216	1323	E	32ND	PL	48	9.70	S	C	2	1						1				
16	095	045	011-222	3171	S	ROCKFORD	AV	48	12.78	C	C	2	3		1				1			1	
16	095	045	011-227	3155	S	ROCKFORD	DR	48	11.72	S	B	2	2						1			1	
16	095	045	011-228	3135	S	ROCKFORD	DR	48	9.96	D	B	2	2						1			1	
16	095	045	011-229	3117	S	ROCKFORD	DR	48	16.14	S													

Sheet no	Atlas	BasinID	MHID	MHAdd	Dir	MHStName	MHSfx	Dia	MHDepth	Surface	MHCons	Priority	# Def	1000	1020	1022	1030	1032	1045	1050	1052	1060	1210
16	095	045	011-325	1615	E	31ST	PL	48	10.46	S	C	2	1						1				
16	095	045	011-327	1616	E	31ST	PL	48	8.24	S	C	2	1						1				
16	095	045	011-546	1337	E	32ND	PL	48	13.18	S	C	2	1						1				
16	095	045	011-547	3171	S	ROCKFORD	AV	48	12.96	S	C	2	2						1			1	
16	095	045	011-548	3171	S	ROCKFORD	AV		0.00	S		2	1	1									
16	095	045	011-549	3155	S	ROCKFORD	DR	48	11.50	S	C	2	1						1				
16	095	045	011-550	3155	S	ROCKFORD	DR	48	11.16	S	C	2	2						1			1	
16	095	045	011-551	3135	S	ROCKFORD	DR	48	11.46	D	C	2	1						1				
16	095	045	011-552	3117	S	ROCKFORD	DR	48	15.46	D	C	2	2						1		1		
16	095	045	011-553	3100	E	31ST	ST	48	17.38	S	C	2	1						1				
16	095	045	011-554	3100	S	TRENTON	AV	48	21.00	S	C	2	2						1			1	
16	095	045	011-727	3152	S	ROCKFORD	AV		0.00	S		2	1	1									
16	095	045	032-640	3535	S	PEORIA	AV	48	9.48	S	B	2	2						1		1		
16	095	045	032-650	1407	E	33RD	ST	48	6.58	S	B	2	2						1	1			
16	095	045	032-651	1421	E	33RD	ST	48	6.20	C	B	2	2						1	1			
16	095	045	032-652	1421	E	33RD	ST	48	7.82	S	B	2	1						1				
16	095	045	032-653	1441	E	33RD	ST	48	6.52	S	B	2	2						1	1			
16	095	045	032-655	1410	E	33RD	ST	48	8.70	S	B	2	2						1	1			
16	095	045	032-656	1440	E	33RD	ST		0.00	S		2	1	1									
16	095	045	032-660	3323	S	TRENTON	AV	48	10.12	S	B	2	2						1	1			
16	095	045	032-663	3316	S	UTICA	AV		0.00	S		2	1	1									
16	095	045	032-666	1611	E	33RD	ST	48	4.80	C	B	2	2						1	1			
16	095	045	032-669	3235	S	TROOST	AV	48	9.40	S	B	2	2						1	1			
16	095	045	032-670	3247	S	TROOST	AV		0.00	S		2	1	1									
16	095	045	032-672	3223	S	TROOST	AV		0.00	S		2	1	1									
16	095	045	032-674	1652	E	32ND	ST		0.00	S		2	1	1									
16	095	045	032-675	3216	S	TROOST	AV	48	4.72	S	B	2	2						1	1			
16	095	045	032-678	1623	E	32ND	PL	48	8.00	S	B	2	2						1			1	
16	095	045	032-679	1622	E	32ND	ST	48	12.12	S	B	2	2						1				
16	095	045	032-680	1621	E	32ND	ST	48	11.80	S	B	2	2						1	1			
16	095	045	032-683	1647	E	32ND	ST	48	8.57	S	B	2	2						1	1			
16	095	045	032-685	1605	E	33RD	ST	48	7.98	S	B	1	1				1						
16	095	045	032-686	1605	E	33RD	ST		0.00	S		2	1	1									
16	095	045	032-687	1622	E	32ND	ST		0.00	S		2	1	1									
16	095	045	032-688	1338	E	34TH	ST		0.00	S		2	1	1									
16	095	045	032-694	1609	E	35TH	ST	48	7.76	S	B	2	2						1		1		
16	095	045	032-696	1335	E	35TH	PL		0.00	S		2	1	1									
16	095	045	032-697	1416	E	35TH	ST	48	8.33	S	B	2	2						1	1			
16	095	045	032-698	1444	E	35TH	ST	46	7.29	S	B	2	1		1								
16	095	045	032-699	1504	E	35TH	PL		0.00	S		2	1	1									
16	095	045	032-701	1546	E	35TH	ST	48	13.59	S	B	2	2						1	1			
16	095	045	032-702	3511	S	TRENTON	AV	48	6.77	S	B	2	2						1	1			
16	095	045	032-703	1622	E	35TH	ST	48	6.60	S	B	2	2						1	1			
16	095	045	032-704	3504	S	UTICA	AV	48	7.70	S	B	2	2						1	1			
16	095	045	032-705	3535	S	PEORIA	AV	48	8.80	A	B	2	2						1			1	
16	095	045	032-707	1336	E	35TH	PL	48	8.96	S	B	2	2						1		1		
16	095	045	032-709	1432	E	35TH	PL	48	11.51	S	B	2	1				1						
16	095	045	032-710	1446	E	35TH	PL	48	10.58	S	C	2	2						1	1			
16	095	045	032-711	1522	E	35TH	PL	48	9.08	S	B	2	2						1	1			
16	095	045	032-719	3537	S	TROOST	AV	48	6.94	C	C	2	2						1	1			
16	095	045	032-720	1641	E	36TH	ST		0.00	S		2	1	1									
16	095	045	032-800	3409	S	PEORIA	AV	48	7.84	C	B	2	2						1	1			
16	095	045	11A-381	1732	E	31ST	ST	48	11.80	S	B	2	2						1			1	
16	095	045	11A-382	1831	E	31ST	PL	48	12.22	S	B	2	2						1	1			
16	095	045	11A-386	3131	S	VICTOR	AV	48	8.44	S	B	2	2						1	1			
16	095	045	11A-388	1829	E	32ND	ST	48	9.96	S	B	2	2						1				
16	095	045	11A-391	3140	S	ZUNIS	AV	48	14.74	S	B	2	2						1		1		
16	095	045	11A-395	1851	E	31ST	PL	48	7.40	S	B	2	2						1	1			
16	095	045	11A-397	2135	E	31ST	PL	48	5.56	S	B	2	2						1	1			
16	095	045	11A-399	3147	S	ZUNIS	AV	48	9.74	S	B	2	1						1				
16	095	045	11A-401	3313	S	ZUNIS	AV	48	10.68	A	B	2	2						1	1			
16	095	045	11A-402	2202	E	31ST	ST	48	7.92	S	B	2	2						1			1	
16	095	045	11A-436	2258	E	31ST	ST	48	8.36	S	B	2	2						1		1		
16	095	045	11A-437	3138	S	ZUNIS	PL	48	16.32	C	B	2	1						1				
16	095	045	11A-439	2252	E	31ST	PL	48	9.16	S	B	2	2						1	1			
16	095	045	11A-442	3206	S	ZUNIS	PL	48	7.90	S	B	2	1						1				
16	095	045	11A-445	3214	S	ZUNIS	PL	48	4.60	C	B	2	2						1	1			
16	095	045	11A-446	2250	E	32ND	ST	48	11.62	S	B	2	2						1	1			
16	095	045	11A-447	2256	E	32ND	ST		0.00	S		2	1	1									
16	095	045	11A-448	3228	S	ZUNIS	PL		0.00			2	1	1									
16	095	045	11A-450	2223	E	33RD	ST	48	7.96	C	B	2	2						1	1			
16	095	045	11A-451	2245	E	33RD	ST	48	6.04	C	B	2	1		1								
16	095	045	11A-452	2252	E	32ND	PL	48	14.88	S	B	2	2						1	1			
16	095	045	11A-453	2258	A	52ND	PL		0.00	S		2	1	1									
16	095	045	11A-454	2223	E	33RD	ST	48	6.46	S	B	2	2						1	1			
16	095	045	11A-456	1805	E	32ND	PL	48	12.78	S	B	2	1						1				
16	095	045	11A-457	1821	E	32ND	PL	48	11.78	S	B	2	2						1			1	
16	095	045	11A-458	1839	E	32ND	PL	48	11.96	S	B	2	2						1	1			
16	095	045	11A-461	2109	E	32ND	ST	48	7.22	S	B	2	2						1	1			
16	095	045	11A-463	2133	E	32ND	PL		0.00	S		2	1	1									
16	095	045	11A-466	1842	E	32ND	PL	48	9.64	S	B	2	2						1			1	
16	095	045	11A-																				

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
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REORDER BY NUMBER 07349

Sheet no	Atlas	BasinID	MHID	MHAdd	Dir	MHSTName	MHSfx	Dia	MHDepth	Surface	MHCons	Priority	# Def	1000	1020	1022	1030	1032	1045	1050	1052	1060	1210
16	095	045	11A-483	3451	S	ZUNIS	AV	48	4.76	A	B	2	1						1				
16	095	045	11A-485	3438	S	ZUNIS	AV	48	7.28	S	B	2	2						1			1	
16	095	045	11A-488	1965	E	33RD	PL	48	5.82	S	B	2	2						1	1			
16	095	045	11A-489	3325	S	YORKTOWN	AV	48	4.72	S	B	2	2						1			1	
16	095	045	11A-490	3335	S	YORKTOWN	AV	48	5.06	S	B	2	2						1		1		
16	095	045	11A-491	3417	S	YORKTOWN	AV	48	7.20	S	B	2	2						1	1			
16	095	045	11A-493	1921	E	33RD	PL	48	5.26	S	B	2	2						1			1	
16	095	045	11A-501	3140	S	VICTOR	AV	48	11.30	S	B	2	2						1			1	
16	095	045	11A-504	3238	S	VICTOR	AV	48	5.88	S	B	2	1						1				
16	095	045	11A-506	3223	S	UTICA	AV	48	13.56	S	B	2	2						1			1	
16	095	045	11A-507	1711	E	33RD	PL	48	9.28	S	B	2	2						1			1	
16	095	045	11A-514	1720	E	33RD	PL	48	6.54	S	B	2	2						1	1			
16	095	045	11A-516	1707	E	36TH	ST	48	5.20	S	B	2	2						1	1			
16	095	045	11A-722	2108	E	32ND	PL	48	8.14	S	B	2	2						1	1			
16	095	045	11A-729	3422	S	ZUNIS	AV	48	7.44	S	B	2	2						1	1			
16	095	045	11A-730	3501	S	YORKTOWN	PL	48	5.40	S	B	2	2						1	1			
17	096	045	011-534	249	E	33RD	PL	48	13.54	S	C	2	1						1				
17	096	045	011-535	1027	E	33RD	PL	48	15.40	A	C	2	1						1				
17	096	045	011-536	1111	E	33RD	PL	48	14.32	S	C	2	1						1				
17	096	045	012-144	3124	S	MADISON	AV	48	9.08	D	B	2	1						1				
17	096	045	012-145	3150	S	MADISON	AV	48	8.50	S	B	2	2						1	1			
17	096	045	012-187	3128	S	MADISON	AV	48	9.48	A	B	2	1						1				
17	096	045	012-188	3125	S	MADISON	AV	48	10.52	A	B	2	2						1	1			
17	096	045	012-190	3148	S	WOODWARD	BV	48	9.78	D	B	2	2						1	1			
17	096	045	012-191	3164	S	WOODWARD	BV	48	9.06	S	B	2	1						1				
17	096	045	012-192	1030	E	32ND	PL	48	8.58	S	B	2	2						1	1			
17	096	045	012-197	3131	S	WOODWARD	BV	48	11.06	A	B	2	2						1	1			
17	096	045	012-198	3132	S	OWASSO	AV	48	11.88	S	B	2	2						1	1			
17	096	045	012-200	3147	S	WOODWARD	BV	48	9.06	S	B	2	2						1	1			
17	096	045	012-201	3169	S	WOODWARD	BV	48	8.42	S	B	1	3					1	1	1			
17	096	045	012-202	3132	S	OWASSO	AV	48	14.48	S	B	2	2						1	1			
17	096	045	012-203	3150	S	OWASSO	AV	48	14.80	A	B	2	2						1	1			
17	096	045	012-204	3203	S	OWASSO	AV	48	15.56	S	B	2	2						1	1			
17	096	045	012-205	1257	E	32ND	ST	48	9.36	S	B	2	2		1				1				
17	096	045	012-207	1247	E	31ST	PL	48	7.90	S	B	2	2						1	1			
17	096	045	012-208	1251	E	31ST	PL	48	7.68	S	B	2	1						1				
17	096	045	032-002	3300	S	RIVERSIDE	DR	99	17.38	S	C	2	1		1								
17	096	045	032-004	3223	S	RIVERSIDE	DR	48	17.06	S	C	2	1		1								
17	096	045	032-521	3275	S	RIVERSIDE	DR	48	9.25	A	B	2	2						1	1			
17	096	045	032-522	3289	S	RIVERSIDE	DR	48	8.29	A	C	2	2						1			1	
17	096	045	032-530	3251	S	CINCINNATI	AV	48	7.51	S	C	2	2						1	1			
17	096	045	032-532	141	E	33RD	PL	48	9.26	A	C	2	2						1	1			
17	096	045	032-537	1141	E	33RD	ST	48	15.00	C	C	2	2						1	1			
17	096	045	032-539	1131	E	33RD	PL	48	17.39	D	C	2	2						1	1			
17	096	045	032-541	3302	S	PEORIA	AV	48	16.94	A	C	1	2						1				
17	096	045	032-592	104	S	RIVERSIDE	DR	48	11.60	S	B	2	2						1			1	
17	096	045	032-593	104	E	33RD	PL	48	6.08	S	B	2	2						1	1			
17	096	045	032-595	204	E	33RD	PL	48	5.54	S	B	2	2						1			1	
17	096	045	032-599	116	E	34TH	ST	48	12.51	S	B	2	2						1	1			
17	096	045	032-605	1040	E	33RD	PL	48	9.95	A	B	2	1						1				
17	096	045	032-606	1114	E	33RD	PL	48	7.48	A	B	2	2						1			1	
17	096	045	032-608	1203	E	33RD	ST	48	7.76	S	B	2	1		1								1
17	096	045	032-609	1218	E	33RD	ST	36	4.01	C	B	2	1										
17	096	045	032-610	1141	E	33RD	PL	48	7.90	A	B	2	2						1	1			
17	096	045	032-611	3346	S	PEORIA	AV		0.00			2	1	1									
17	096	045	032-613	1026	E	34TH	ST	48	9.48	S	B	2	2						1			1	
17	096	045	032-617	1128	E	34TH	ST		0.00	S		2	1	1									
17	096	045	032-620	1026	E	34TH	ST	48	10.72	C	B	2	2						1			1	
17	096	045	032-622	3516	S	NORFOLK	AV	48	9.00	A	B	2	2						1	1			
17	096	045	032-625	3524	S	PEORIA	AV	48	8.82	S	B	2	1						1				
17	096	045	032-626	3512	S	PEORIA	AV		0.00	A		2	1	1									
17	096	045	032-631	1003	E	35TH	PL	48	11.84	S	B	2	2						1			1	
17	096	045	032-634	1047	E	36TH	ST	48	10.16	S	B	2	1						1				
17	096	045	032-635	1115	E	36TH	ST	48	9.70	S	B	2	1						1				
17	096	045	032-639	3525	S	PEORIA	AV	48	9.68	C	B	2	1						1				
17	096	045	032-676	3228	S	TROOST	AV	48	6.25	S	B	1	2						1	1			
17	096	045	032-693	1548	E	34TH	ST	48	8.65	S	B	2	2						1	1			
17	096	045	033-110	3115	S	RIVERSIDE	DR	48	9.02	S	B	2	2						1				
17	096	045	033-111	3115	S	RIVERSIDE	DR	48	7.62	A	C	2	2						1			1	
Totals														156	89	5	4	45	1164	324	97	163	3

Legend for rehabilitation methods

1000. Locate and Expose Manhole - This method requires finding or exposing the manhole for inspection by the ENGINEER. The approximate location, based upon the best available record data, is indicated on the drawings. The cost basis for this rehabilitation method will be a price per each.

1020. Realign and grout casting - The casting has been loosened from the chimney or cone. The casting should be positioned properly over the chimney or cone and grouted back in place, sealing the connection to prevent leaks. The cost basis for this rehabilitation method will be a price per each.

1022. Replace Casting (Frame and Lid) - A new frame and lid should be installed to replace a broken or missing frame and/or lid. This means to remove the existing casting, (if one exists) and install a new one. All undamaged parts are to be turned over to the City of Tulsa. The cost basis for this rehabilitation method will be a price per each.

1030. Raise Casting to or Above Grade - This is required when a manhole is below grade, especially if it is subject to ponding or inundation. The casting should be raised to the height that would prevent it from being under significant ponding whenever possible. The work will consist of detaching the casting from the existing chimney or cone; constructing a new or additional chimney section; resetting the casting; and grouting everything in place. The cost basis for this rehabilitation method will be a price per each.

1032. Raise Casting to or Above Grade and Install a Solid Lid - This is required when a manhole is below grade and the lid is vented, especially if it is subject to ponding or inundation. The casting should be raised to the height that would prevent it from being under significant ponding whenever possible and a solid lid installed, which may require replacement of the frame and lid. The work will consist of detaching the casting from the existing chimney or cone; constructing a new or additional chimney section; resetting or replacing the casting; and, grouting everything in place. The cost basis for this rehabilitation method will be a price per each.

1045. Clean Manhole, Repair Steps as Needed & Coat Area Around Steps - This is required due to missing or broken step(s), and/or where they are embedded into the manhole wall. Rehabilitation will be similar to RM1050 below except that it applies only to the step(s) and the immediate area around the step(s). The cost basis for this rehabilitation method will be a price per step.

1050. Stop I/I, Clean Manhole, Repair as Needed & Coat - This is required when leaks are evident in the manhole; and, usually has missing mortar or brick, and/or may have severe deterioration of the manhole or a significant component of the manhole. Prior to repairs the manhole should be cleaned using a high pressure washer or manually washed to remove grease or dirt that would prevent the repair materials from adhering to the interior surface of the manhole. Repairs may consist of replacing bricks, patching concrete with a patch mix or grout and stopping leaks by using packing materials, chemical grout or applying exterior waterproofing compounds. After repairs are made, the entire interior surface should be coated with special purpose waterproofing materials that are resistant to chemical degradation common to sanitary sewers. The cost basis for this rehabilitation method will be a price per vertical foot.

1052. Stop I/I, Clean Manhole, Repair Manhole Bottom & Coat to 1' Above Pipe Crown - This is required when leaks are evident at the Bench, Trough or Pipe Seal; and, there may be some deterioration in that part of the manhole. Rehabilitation will be similar to RM1050 above except that it applies only to the Bench, Trough and Pipe Seal. The cost basis for this rehabilitation method will be a price per each.

1060. Remove Roots, Clean Manhole, Repair as Needed & Coat - This is required when roots are evident in the manhole; usually has missing mortar or brick, and/or may have severe deterioration of the manhole or a significant component of the manhole; and, usually leaks are evident in the manhole. Rehabilitation will be similar to RM 1050 above except that the roots should be removed and a root inhibitor applied before the other repairs are made. The cost basis for this rehabilitation method will be a price per vertical foot.

1210. Replace Manhole - This is recommended for manholes that are undersized or have deteriorated to the degree that total replacement is required. The existing manhole should be completely removed and replaced with a new manhole, frame and cover. The cost basis for this rehabilitation method will be a price per manhole for the first six (6) feet of depth plus an additional price per vertical foot for depth in excess of six (6) feet.

Legend for Manhole Materials