

# ***AGENDA***

**FORT SMITH BOARD OF DIRECTORS  
STUDY SESSION**

***September 27, 2011 ~ 12:00 NOON***

**FORT SMITH PUBLIC LIBRARY  
COMMUNITY ROOM  
3201 ROGERS AVENUE**

1. Review proposed Storm Drainage Standards
2. Review Town Branch Drainage Improvement Projects
3. Presentation of proposed five-year Streets and Drainage Capital Improvements Program and Year 2012 Sidewalk Program
4. Update on Year 2012 Budget
5. Review preliminary agenda for the October 4, 2011 regular meeting

## MEMORANDUM

**To:** Ray Gosack, City Administrator

**From:** Stan Snodgrass, P.E., Director of Engineering *SS*

**Subject:** Review of Proposed Storm Drainage Standards

**Date:** September 22, 2011

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Engineering Department staff has been working the past several years to develop a document to replace the City's outdated Minimum Storm Drainage Standards. The existing standards, which were adopted in 1975 and updated in 1987, do not address the water quality requirements established by the Arkansas Department of Environmental Quality in the City's Municipal Separate Storm Sewer System (MS4) Permit. Also, flooding events the past several years have called into question earlier design practices that may not be appropriate in an ever increasing urban environment. These two driving factors have led to the development of the proposed standards.

The goal was to develop a document that would preserve the good practices from the existing standards, appropriately address flood control in new and re-development projects with the use of modern engineering methods, and meet current state and federal regulations. To help staff achieve this goal, local engineering consultants were asked to review the proposed standards and provide comments. The local engineering community answered with many helpful comments, and the proposed standards were revised. A 30 day review period was also held for public review and comment, however no comments were received. A draft version of the proposed standards have been posted on the City's website for the past year. The proposed drainage standards can be viewed at [www.fortsmithar.gov/engineering/default.aspx](http://www.fortsmithar.gov/engineering/default.aspx) under the "documents" tab. Two tables are attached which compare the differences between the existing and proposed drainage standards.

The question has been raised by the Board of Directors to utilize the 25 year storm frequency (4% annual chance) as the design storm in lieu of the 10 year storm frequency (10% annual chance). As can be seen from the attached table, this would primarily affect the design of the residential streets. Increasing the minimum design frequency from 10 years to 25 years would be of some benefit, but we are not sure if the value would justify the additional cost. Information we have received from the local development engineers is that the added cost to the storm drainage system would be approximately 20%, increasing the overall cost of a residential subdivision by about 5 to 10%. Increasing the design frequency could also allow increased flows

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Ray Gosack  
September 22, 2011  
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further downstream thereby creating or compounding other drainage issues.

A drainage system is designed to carry a certain frequency storm and typically provisions, such as an overflow swale, are made to allow for higher frequency storms. We believe the bigger issue is that a policy needs to be established to insure that overflow swales constructed during the development are maintained. We have had numerous instances where drainage easements and overflow swales were completely filled in or blocked by fencing or landscaping. One consideration is to require the overflow swales to be constructed with a concrete bottom to ensure that the elevation is maintained.

The Engineering Department recommends adoption of the proposed 2011 Storm Drainage Standards but does not recommend utilizing the 25 year storm as the minimum design storm for the reasons noted above. The proposed standards will enhance the ability of the City to combat flooding issues and will ensure compliance with the applicable sections of the City's MS4 permit.

Enclosure

DRAINAGE FACILITY/CLASSIFICATION	1975 STORM DRAINAGE STANDARDS & 1987 DRAINAGE POLICY		2011 STORM DRAINAGE STANDARDS	
	Design Storm	Clear Zone	Design Storm	Clear Zone
<b>Storm Drain:</b>				
Residential	10-yr	Not Addressed	10-yr	Can't Overtop Centerline
Residential Collector	10-yr	Can't Overtop Centerline	10-yr	Center 12 ft
Residential Collector (Restricted Parking)	10-yr	Can't Overtop Centerline	10-yr	Center 12 ft
Major Collector	10-yr	Can't Overtop Centerline	25-yr	Center 12 ft
Minor Arterial	50-yr	Center 24 ft	50-yr	Center 24 ft
Major Arterial	50-yr	Center 24 ft	50-yr	Center 24 ft
Boulevard	10-yr	Not Addressed	50-yr	12 ft Each Side
Industrial	10-yr	Not Addressed	25-yr	Center 12 ft
All Other Systems	10-yr	N/A	10-yr	N/A
<b>Channels:</b>				
All Classifications	10-yr	N/A	25-yr	N/A
<b>Culverts:</b>				
Major and Minor Arterial	50-yr	N/A	50-yr	N/A
All Other Classifications	10-yr	N/A	25-yr	N/A

STANDARD REQUIREMENTS	1975 STORM DRAINAGE STANDARDS & 1987 DRAINAGE POLICY	2011 STORM DRAINAGE STANDARDS
Easements	Drainage easements required for public facilities.	Drainage, access, and stormwater pond easements required for public facilities.
Drainage Report/Plan Requirement Checklist	No checklist required.	Checklist must be submitted.
Storm Drain & Open Channel Criteria	Flows can be contained in open channels in lieu of storm drains as long as criteria for open channels can be met.	10-yr flows less than 50 cfs (unless carried in an open channel designed to treat the water quality volume) must be contained in an underground storm drain. 10-yr flows greater than 50 cfs may be contained in open channels in lieu of storm drains as long as criteria for open channels can be met.
Maximum Headwater for Culverts	For design storm, cannot cause damage to properties or overflow onto streets.	For design storm, shall be one foot lower than top of road. For 100-yr storm, shall be one foot lower than floor elevation of adjacent structures.
Post-Development Runoff	Storm sewer system must be adequate to carry the design runoff to a point 500 feet downstream, or to an existing waterway of adequate size to carry the design runoff, or to a point approved by the Director of Public Works.	If post-development runoff exceeds pre-development runoff for development and redevelopment projects disturbing one or more acres, and existing system is not adequate to carry the post-development runoff, one of three mitigation measures must be used: onsite detention, offsite or regional detention, or improvements to existing drainage system.
Water Quality	Not addressed.	Development and redevelopment projects disturbing one or more acres (or less than one acre if part of a larger common plan of development), that will increase the impervious area onsite shall be required to capture and treat the Water Quality Volume (As required by ADEQ).

## MEMORANDUM

**To:** Ray Gosack, City Administrator  
**From:** Stan Snodgrass, P.E., Director of Engineering *SS*  
**Subject:** Town Branch Drainage Projects  
**Date:** September 22, 2011

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The Town Branch drainage system is a sub basin to the May Branch watershed. The Town Branch storm sewer extends from approximately Towson and South "I" Street connecting to the May Branch storm sewer at North "P" Street and North 7<sup>th</sup> Street as shown on the attached exhibit. This storm sewer system is associated with the flooding that occurs in the downtown area and areas just north and south of downtown. The majority of the Town Branch storm sewer was constructed in the late 1800's and early 1900's and is severely undersized.

In 2010 and 2011 we completed two projects in this area. This included heavy cleaning of approximately 1500 feet of storm sewer at a cost of \$188,000 and relocation of a sanitary sewer line at a cost of \$318,000 which was crossing and causing blockage within the Carnall Avenue storm sewer. For 2012 we are proposing improving the upstream outfall at South G Street and Towson to the west. This outfall is currently restricted which is contributing to the flooding in the downstream areas.

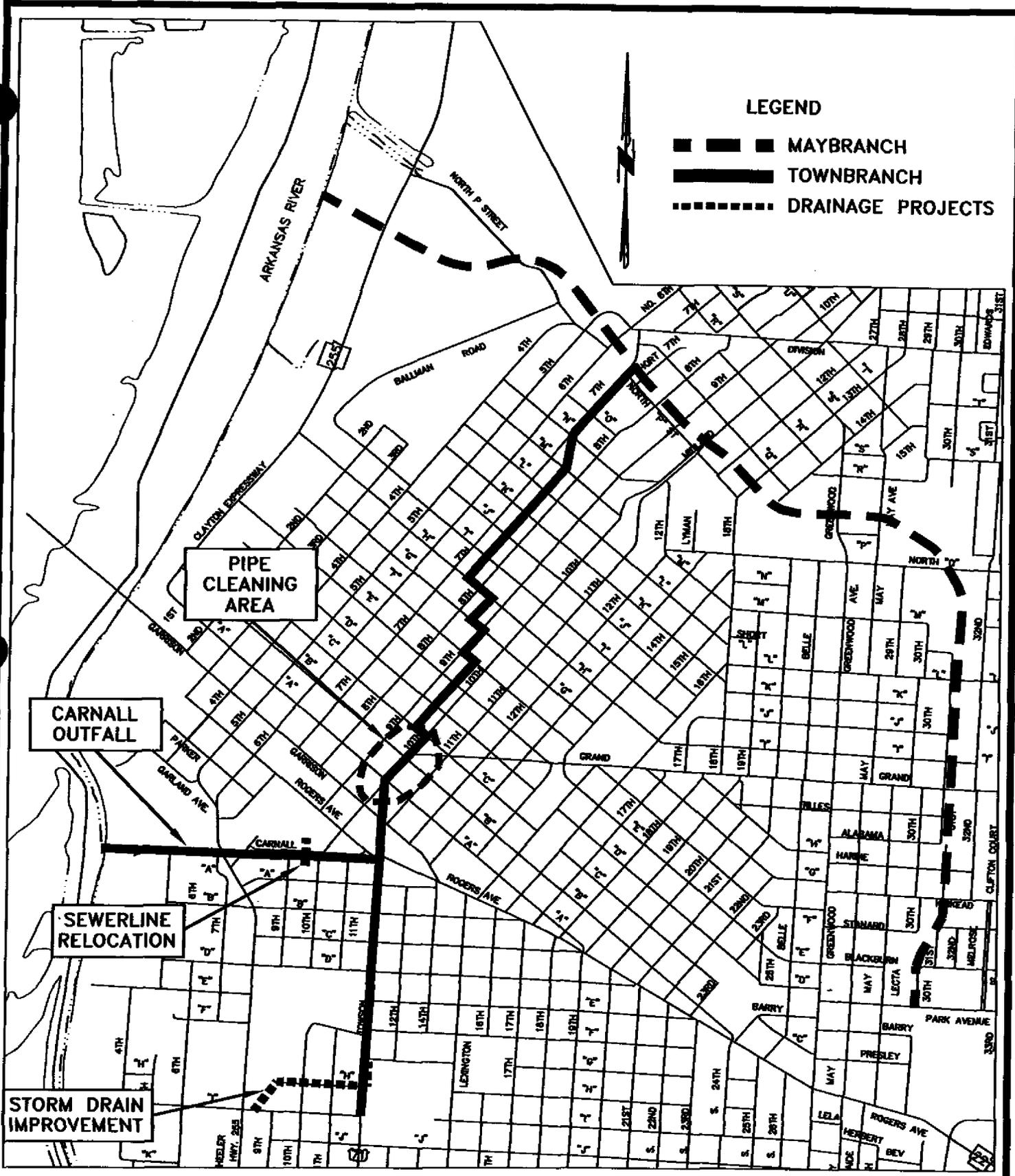
The engineering firm of Camp, Dresser and McKee, Inc. (CDM) was hired to design the drainage improvements to the Town Branch and Carnall outfall storm sewer systems. At next Tuesday's study session, a representative from CDM will provide an updated presentation on the Town Branch drainage projects.

Enclosure

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**LEGEND**

-  **MAYBRANCH**
-  **TOWNBRANCH**
-  **DRAINAGE PROJECTS**



**2012 CAPITAL IMPROVEMENTS PROGRAM**  
**DRAINAGE IMPROVEMENTS**  
**MAYBRANCH & TOWN BRANCH**



Project:	2012 DRAINAGE
Date:	SEPT. 2011
Scale:	NONE
Drawn By:	RBR

**MEMORANDUM**

**To:** Ray Gosack, City Administrator

**From:** Stan Snodgrass, P.E., Director of Engineering *SS*

**Subject:** Five Year Capital Improvement Program (2012-2016)  
Streets, Bridges and Drainage Sales Tax Funds  
and 2012 Sidewalk Program

**Date:** September 22, 2011

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Attached is a summary of the 5-Year Capital Improvement Program for the street, bridge and drainage sales tax funds and the 2012 Sidewalk Program. This is transmitted for review and discussion with the Board of Directors prior to submittal to the Board for approval. The funding for the streets, bridges and drainage program is provided by the one-cent sales tax. Funding for the sidewalk program is generated from building permit assessment fees. Determination of projects is based on numerous factors including citizen input, interdepartmental requests, pavement rating of streets, rating of sidewalks and input from the Board of Directors.

The proposed program includes a combination of neighborhood street improvements, major street projects, local and basin wide drainage improvements, traffic signals and sidewalk improvements. The program totals \$30.7 million for the year 2012 and \$122 million for the five year period from 2012 to 2016.

The attached spreadsheet outlines the anticipated revenues and expenditures for the various projects. A narrative description, project lists and exhibits for some of the projects shown on the spreadsheet are also included.

Enclosure

**CITY OF FORT SMITH**  
**Five-Year Capital Improvement Program for Streets Bridges and Drainage (2012-2016) and**  
**Sidewalk Program (2012)**

9/22/11

	2011	2012	2013	2014	2015	2016
<b>Beginning Balance</b>	18,589,557	11,578,478	3,473,798	6,018,372	1,932,743	2,451,652
Current Year Revenues						
Sales Tax	18,853,625	19,230,698	19,615,311	20,007,618	20,407,770	20,815,925
Grants/Other Participation	808,840	3,336,349	5,803,149	1,218,149	203,149	188,149
Interest	5,136	5,855	1,844	3,365	2,090	1,422
Total - Current Year Revenues	19,667,601	22,572,902	25,420,304	21,229,131	20,613,009	21,005,496
<b>Total Funds Available</b>	<b>38,257,158</b>	<b>34,151,380</b>	<b>28,894,102</b>	<b>27,247,503</b>	<b>22,545,752</b>	<b>23,457,148</b>
1 Street Overlays & Reconstruction	9,267,380	7,185,282	7,000,000	7,000,000	9,000,000	9,000,000
2 Neighborhood Drainage Improvements	2,377,790	5,405,000	2,000,000	1,000,000	1,000,000	1,000,000
3 Town Branch / Carnall Drainage	869,797	1,000,000	1,000,000	200,000	0	1,000,000
4 May Branch Outfall Culvert Replacement	100,000	2,400,000	0	0	0	0
5 Mill Creek Drainage / 28th Street	1,676,068	10,000	0	0	0	0
6 Intersection and Signal Improvements	282,860	750,000	300,000	300,000	300,000	300,000
7 Hwy 45 - Phoenix to Zero	5,638,298	0	0	0	0	0
8 Jenny Lind - Zero to Cavanaugh	100,000	2,900,000	7,000,000	9,600,000	1,500,000	0
9 May Branch Drainage Project	100,000	100,000	1,000,000	3,000,000	4,000,000	7,200,000
10 Levee Certification & Repair	266,354	3,735,000	0	0	0	0
11 Streetscape - Garrison Av. & Towson Av.	44,553	2,984,000	438,000	0	0	0
12 Overlays by Street Department	150,000	150,000	150,000	150,000	150,000	150,000
13 Traffic Studies	25,000	20,000	20,000	20,000	20,000	20,000
14 Sidewalk Program	200,000	433,200	200,000	200,000	200,000	200,000
15 FCRA Development	3,190,541	900,000	1,000,000	1,000,000	1,000,000	1,000,000
16 Engineering Dept. and Other Depts.	2,385,810	2,505,100	2,567,730	2,644,760	2,724,100	2,805,800
17 Contingency	4,229	200,000	200,000	200,000	200,000	200,000
<b>TOTAL</b>	<b>26,678,680</b>	<b>30,677,582</b>	<b>22,875,730</b>	<b>25,314,760</b>	<b>20,094,100</b>	<b>22,875,800</b>
<b>Ending Balance</b>	<b>11,578,478</b>	<b>3,473,798</b>	<b>6,018,372</b>	<b>1,932,743</b>	<b>2,451,652</b>	<b>581,348</b>

**Grants/Other Participation**

Jenny Lind Road	300,000	300,000	5,300,000	1,000,000	0	0
Streetscape - Garrison and Towson	0	1,950,000	270,000	0	0	0
McClure Road (FCRA)	0	300,000	0	0	0	0
McClure Road (Sebastian County)	0	300,000	0	0	0	0
Sidewalk Fund	508,840	486,349	233,149	218,149	203,149	188,149
<b>TOTAL</b>	<b>808,840</b>	<b>3,336,349</b>	<b>5,803,149</b>	<b>1,218,149</b>	<b>203,149</b>	<b>188,149</b>

**Five Year Capital Improvement Program (2012-2015)  
Streets, Bridges and Drainage Sales Tax Funds  
and 2012 Sidewalk Program**

**Descriptions of Selected Projects  
September 19, 2011**

1. **Street Overlays and Reconstruction.** The proposed 2012 projects are shown on the attached list and exhibits. The total length of streets to be improved is approximately 9.1 miles. The estimate for the 2012 street overlays and reconstruction projects totals \$6.8 million. The total cost shown in 2012 is \$7.2 million, which includes \$400,000 in ongoing construction for the 2011 projects. (See pages 4-6)
2. **Neighborhood Drainage Improvements.** The projects identified in the 2012 drainage program include neighborhood drainage improvements in the areas shown on the attached list and exhibits. The total estimated cost for this work is \$4.8 million and includes 17 different locations. The majority of these projects are associated with structure flooding that occurred with the heavy rains this past spring. The total cost shown for the neighborhood drainage projects in 2012 is \$5.4 million which includes \$570,000 of remaining work in the 2011 drainage projects. (See pages 7-25)
3. **Town Branch - Carnall Drainage.** This project is associated with the flooding that occurs in the downtown area and areas just north of downtown. The Town Branch area is a subbasin to the May Branch watershed. In 2010 and 2011 we completed two projects in this area. This included heavy cleaning of approximately 1500 feet of storm sewer at a cost of \$188,000 and relocation of a sanitary sewer line at a cost of \$318,000 which was crossing and causing blockage within the Carnall Avenue storm sewer. For 2012 we are proposing improving the upstream outfall at South G Street and Towson to the west. This outfall is currently restricted which is contributing to the flooding in the downstream areas. (See page 26)
4. **May Branch Outfall Culvert Replacement.** The May Branch outfall culvert is a 12 foot diameter culvert that serves as the outfall for the May Branch drainage basin. It is also known as the North P Street outfall which was constructed approximately 100 years ago. As part of the work for the levee certification, this culvert required inspection and was found to be in severe condition and in danger of collapse. This past spring several sink holes developed above this section of pipe within the North P Street area. This is indicative of soil migration from around the pipe and into the cracked sections that we have noted. Replacement of approximately 1300 feet of this section of culvert is needed. Construction will need to occur during times of low

river levels which typically take place during the latter summer months. This section of culvert will still be required in association with the future May Branch project. (See page 27)

**6. Intersection and Signal Improvements.** No new projects are proposed for the 2012 program, but the 2011 project will be advertised later this fall with construction in 2012. This project includes replacement of the traffic signal poles at the intersections of North 11<sup>th</sup> Street with both North "A" and "B" Streets. A traffic signal interconnect system is also proposed along Zero Street which will include the intersections of Highway 271, Jenny Lind Road, South 24<sup>th</sup>, South 31<sup>st</sup> and the South 36<sup>th</sup> / I-540 interchange. This will allow coordination of these signals to help improve the traffic flow. (See page 28)

**8. Jenny Lind Road - Zero to Cavanaugh Road.** This project includes improvements to Jenny Lind Road between Zero and Cavanaugh Road. It also includes improvements to Ingersoll Avenue from U.S. Hwy 271 to Jenny Lind and the extension of Ingersoll Avenue from Jenny Lind to U.S. Highway 71B. Plans are 90% complete and the appraisal and right of way acquisition process is underway. Approximately 56 tracts of properties are affected. Construction is expected to begin in late 2012. Federal funding in the amount of \$7.2 million will benefit this project. (See page 29)

**9. May Branch Drainage Project.** This project is to reduce flooding along May Branch from the Arkansas River to Park Avenue. It consists of constructing a drainage channel to replace the existing deteriorated and hydraulically inadequate concrete pipe. The project is currently being designed by the Corps of Engineers. The City is lobbying for federal funding to assist with the project as the total cost is in excess of \$30 million. The Corps of Engineers have indicated that the most downstream section of the project (from approximately N. 7<sup>th</sup> Street to the river) can be constructed entirely with City funds with an agreement that the City's cost would be credited towards the future cost sharing on the project when federal funds become available. The Corps of Engineers is preparing an agreement that will allow this to occur. Anticipated construction is still several years away as final plans have to be completed, right of way acquired and utility relocation must occur first. Construction of the lower section will reduce flooding for both the lower May Branch area and the Town Branch sub basin. (See page 26)

**10. Levee Certification and Repair.** This project includes items associated with the levee certification evaluation in accordance with federal design criteria. This includes items to repair the washed out section on the Rice Carden levee, replacement and repair of the floodwall, construction of street closure devices, installation of embankment protection, repair of outlet culverts and pump station repairs. (See page 30)

**11. Streetscape – Garrison Avenue and Towson Avenue.** This project is a continuation of the Garrison Avenue Streetscape along both sides from 9<sup>th</sup> Street to 13<sup>th</sup> Street. It also includes

replacement of the traffic signal at Garrison Avenue and Towson Avenue. Construction bids have been received and construction is expected to begin later this year pending approval by the Arkansas Highway and Transportation Department. Federal grants in the amount of \$1.95 million will benefit this project. This project will complete the streetscaping along the entire length of Garrison Avenue. This item also includes another project that will provide streetscaping along Towson Avenue south of Garrison Avenue. Federal grants in the amount of \$270,000 will benefit this project. Anticipated construction of the Towson project would be in 2013 and this first phase would extend to South "A" Street. (See page 31)

**14. Sidewalk Program.** The 2011 sidewalk program includes repairing the sidewalks in the locations shown on the attached exhibit. (See page 32)

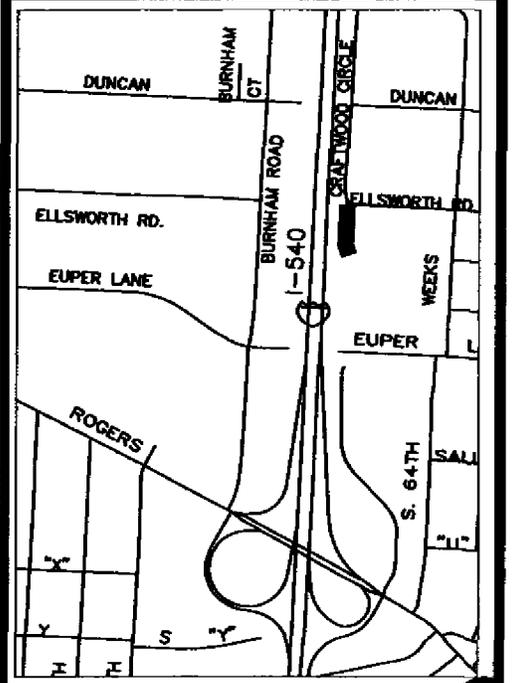
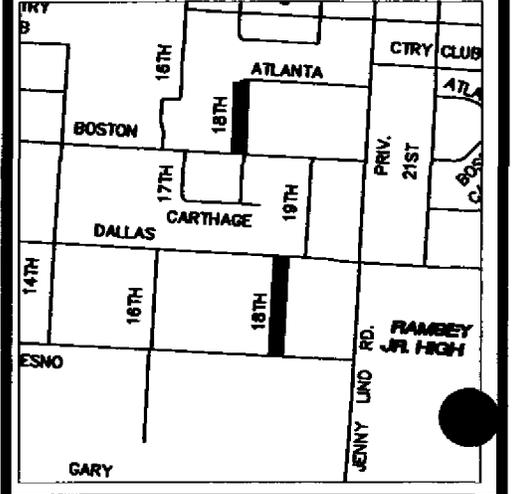
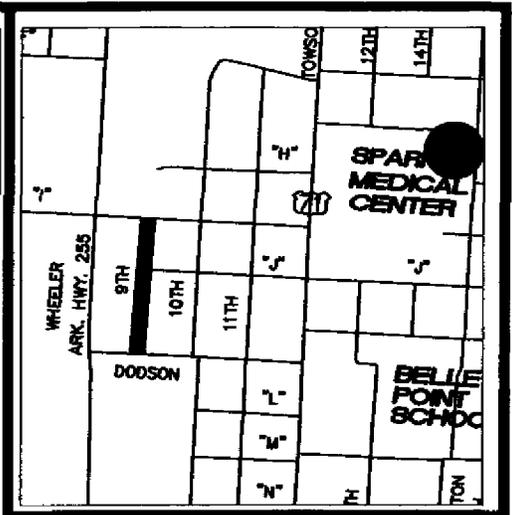
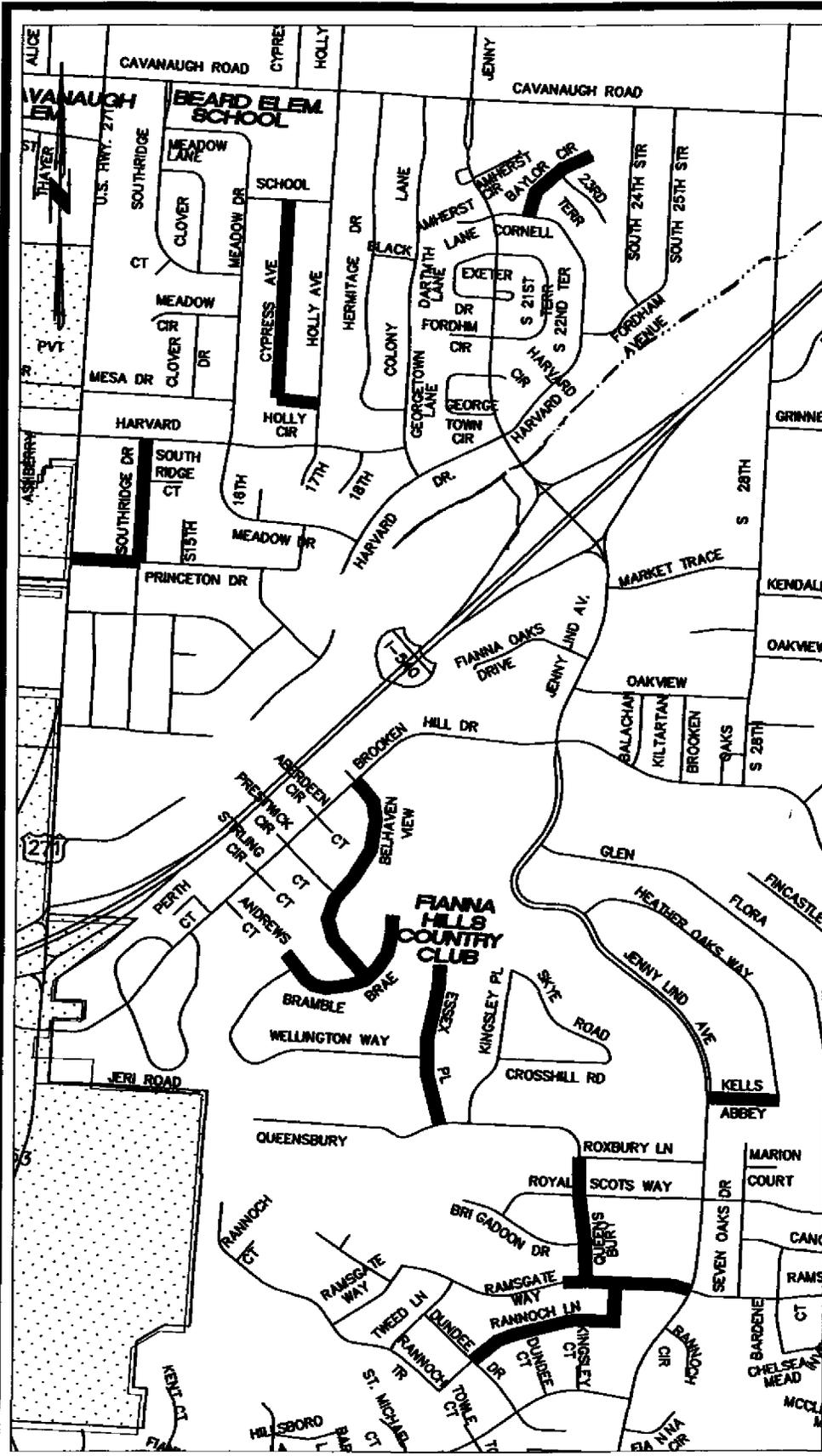
**15. FCRA Development.** This item includes the construction of a new street to serve the McClure Amphitheater. This approximately 1500 foot street will intersect with Massard Road as shown on the attached exhibit. The cost for this street will be split three ways, with the Fort Chaffee Redevelopment Authority, Sebastian County and the City each contributing one third. This street will also encourage development of the area east of the amphitheater extending towards Wells Lake Road. (See page 33)

**2012 CAPITAL IMPROVEMENTS PROGRAM  
STREET OVERLAYS/RECONSTRUCTION**

STREET	FROM	TO	LENGTH	COST
30TH ST.	WALNUT ST.	WILLOW ST.	1330	\$174,377.78
31ST ST.	EMRICH ST.	WILLOW ST.	2654	\$321,864.67
32ND ST.	WALNUT ST.	WILLOW ST.	1323	\$156,114.00
IRENE ST.	WALNUT ST.	WILLOW ST.	1324	\$156,232.00
OAKGROVE ST.	31ST ST.	MUSSETT RD.	1325	\$156,350.00
27TH ST.	SPRADLING AVE.	END OF ROAD	636	\$75,048.00
30TH ST.	IRVING ST.	EMRICH ST.	976	\$95,973.33
IRVING ST.	27TH ST.	31ST ST.	1379	\$162,722.00
VIRGINIA AVE.	27TH ST.	29TH ST.	661	\$77,998.00
28TH ST.	HIGH ST.	VIRGINIA AVE.	447	\$52,746.00
29TH ST.	HIGH ST.	SPRADLING AVE.	1330	\$130,783.33
STAPLES ST.	CARRIZO ST.	NEWLON RD.	621	\$81,420.00
37TH ST.	OAK ST.	WILLOW ST.	331	\$39,058.00
36TH ST.	OAK ST.	WILLOW ST.	331	\$39,058.00
WILLOW ST.	36TH ST.	37TH ST.	257	\$42,119.44
OAK ST.	36TH ST.	37TH ST.	393	\$66,984.67
35TH ST.	REED LN.	OAK ST.	510	\$60,180.00
17TH ST.	KELLEY HWY.	BIRNIE AVE.	631	\$74,458.00
KELLEY HWY.	17TH ST.	19TH ST.	686	\$62,959.56
NEWLON RD.	PARK ST.	MIDLAND BLVD.	691	\$90,597.78
SPRADLING AVE.	50TH ST.	52ND ST.	300	\$39,333.33
49TH ST.	HIGH ST.	SPRADLING AVE.	1344	\$158,592.00
SHORT 7TH ST.	NORTH P ST.	END OF ROAD	757	\$84,612.56
NORTH I ST.	14TH ST.	16TH ST.	699	\$123,723.00
NORTH J ST.	13TH ST.	16TH ST.	1050	\$137,666.67
NORTH K ST.	13TH ST.	15TH ST.	701	\$124,077.00
14TH ST.	GRAND AVE.	18TH ST.	3113	\$510,186.11
NORTH J ST.	18TH ST.	GREENWOOD AVE.	1320	\$173,066.67
SHORT LN.	55TH TER.	57TH TER. DR.	893	\$117,082.22
CROSS LN.	WALDRON RD.	56TH TER.	764	\$100,168.89
55TH TER.	WALDRON RD.	CROSS LN.	1843	\$241,637.78
57TH PL.	COLLINS LN.	57TH TER.	1180	\$154,711.11
COLLINS LN.	56TH TER.	58TH TER.	1315	\$188,609.89
CRAFTWOOD CR.	END OF ROAD	ELLSWORTH RD.	340	\$60,180.00
9TH ST.	DODSON AVE.	SOUTH I ST.	920	\$96,497.78
18TH ST.	BOSTON ST.	ATLANTA ST.	484	\$85,668.00
18TH ST.	FRESNO ST.	DALLAS ST.	669	\$87,713.33
PRINCETON DR.	US HWY.271	SOUTHRIDGE DR.	520	\$92,040.00
SOUTHRIDGE DR.	PRINCETON DR.	HARVARD AVE.	971	\$171,867.00
CYPRESS AVE.	HOLLY CR.	SCHOOL ST.	1596	\$282,492.00
HOLLY CR.	CYPRESS AVE.	HOLLY AVE.	308	\$54,516.00
BAYLOR CR.	CORNELL AVE.	END OF ROAD	735	\$130,095.00
BELHAVEN VIEW	BRAMBLE BRAE	BROOKEN HILL DR.	1814	\$321,078.00
BRAMBLE BRAE	END OF ROAD	END OF ROAD	1323	\$234,171.00
KELLS ABBEY ST.	JENNY LIND RD.	HEATHER OAKS WAY	545	\$96,465.00
QUEENSBURY WAY	ROXBURY LN.	RAMSGATE WAY	978	\$173,106.00
RAMSGATE WAY	QUEENSBURY WAY	JENNY LIND RD.	810	\$143,370.00
ESSEX PL.	QUEENSBURY WAY	END OF ROAD	1270	\$224,790.00
RANNOCH LN.	DUNDEE DR.	RAMSGATE WAY	1473	\$260,721.00
			47871	
<b>TOTAL FOR 2012 STREET OVERLAYS/RECONSTRUCTION PROGRAM</b>				<b>\$6,785,281.89</b>
<b>BALANCE OF 2011 PROJECTS CURRENTLY UNDERCONSTRUCTION</b>				<b>\$400,000.00</b>



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2012 CAPITAL IMPROVEMENTS PROGRAM  
STREET OVERLAYS/RECONSTRUCTION



Project:	2012 OVERLAYS
Date:	SEPT. 2011
Scale:	NONE
Drawn By:	RBR
Page:	6

## 2012 Neighborhood Drainage Projects

<b>Project</b>	<b>Estimated Cost</b>
<p><b>7800 Block of Valley Forge Road</b></p> <p>This project will add a storm drain to intercept runoff from the hillside. Two houses are experiencing flooding in this area (see page 10).</p>	<p>\$ 60,000</p>
<p><b>2700 Block of South 80th Street</b></p> <p>This project will add a concrete swale and storm drain to intercept runoff from the hillside. One house is experiencing flooding in this area (see page 10).</p>	<p>\$ 50,000</p>
<p><b>4300 Blocks of Free Ferry Lane and Presley Street</b></p> <p>This project will replace an undersized earthen channel with a concrete lined channel. Three houses are experiencing flooding in this area (see page 11).</p>	<p>\$ 90,000</p>
<p><b>6800 Block of Free Ferry Road</b></p> <p>This project will replace an undersized earthen channel with a concrete lined channel, and it will complete a previous project. One residence is experiencing flooding in this area (see page 12).</p>	<p>\$ 300,000</p>
<p><b>3100 Block of Independence Street</b></p> <p>This project will add concrete swales and concrete walls to intercept runoff from the hillside. Two houses are experiencing flooding in this area, and there is also a severe erosion problem (see page 13).</p>	<p>\$ 75,000</p>
<p><b>South 46th Street Area</b></p> <p>This project will replace the undersized earthen channel on the west side of South 46th Street from East Valley Road to South "Q" Street with a concrete lined channel. The street and driveway culverts will also be replaced. Six houses are experiencing flooding in this area, and severe street flooding is also occurring (see page 14).</p>	<p>\$ 2,200,000</p>

**10000 Block of Foxboro and 10100 Block of Meandering Way** \$ 500,000  
This project will replace part of an existing undersized storm drain system. Two houses are experiencing flooding in this area, and severe street flooding is also occurring (see page 15).

**Enid and Fresno Area** \$ 400,000  
This project will add storm drains to intercept the runoff, and it will replace some existing storm drains that are failing. Three houses are experiencing flooding in this area, and severe street flooding is also occurring (see page 16).

**7400 Block of Westminister Place** \$ 200,000  
This project will replace an undersized channel and storm drain. Two houses are flooding in this area, and street flooding is also occurring (see page 17).

**Hillside Drive and Martin Drive Area** \$ 400,000  
This project will add railroad culverts and downstream channel improvements to remove a bottleneck. These improvements will allow the City to grade and improve the upstream channel which will benefit the properties along Hillside Drive east of Texas Road. Two houses are experiencing flooding in this area (see page 18).

**3100 Block of Glen Flora** \$ 100,000  
This project will replace an existing storm drain and add inlets to intercept runoff. One house is experiencing flooding in this area, and severe street flooding is also occurring (see page 19).

**4500 Block of South 26th Street** \$ 80,000  
This project will add storm drain to intercept the runoff. One house is experiencing flooding in this area, and severe street flooding is also occurring (see page 20).

**2700 Block of Canterbury Circle**

\$

**50,000**

This project will add storm drain to intercept the runoff, and it will replace some undersized culverts. One house is experiencing flooding in this area, and street flooding is also occurring (see page 21).

**3400 Block of South 29th Circle**

\$

**200,000**

This project will add storm drain to intercept the runoff. Two houses are experiencing flooding in this area, and street flooding is also occurring (see page 22).

**6200 Block of Country Club**

\$

**30,000**

This project will add storm drain to intercept the runoff. One house is experiencing flooding in this area, and street flooding is also occurring (see page 23).

**4700 Block of Geren Road**

\$

**50,000**

This project will replace a box culvert that is in need of repair east of Buske Drive on Geren Road. The City anticipates that Sebastian County will pay for half of the culvert, as one half of Geren Road at this location is not within the City limits. The County's share is estimated at \$50,000 (see page 24).

**3200 Block of Fincastle**

\$

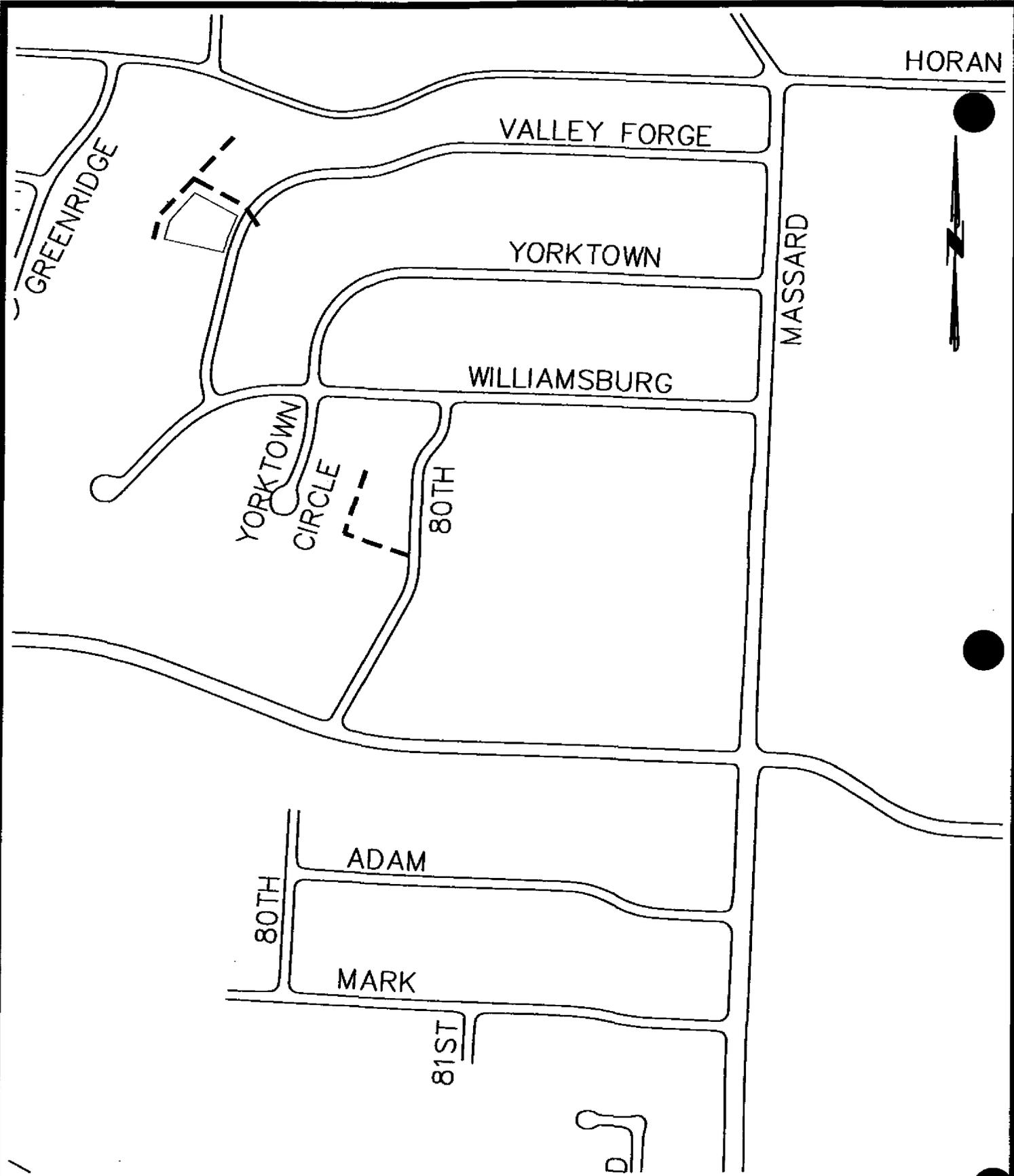
**50,000**

This project will add storm drain and a swale to intercept the runoff. One house is experiencing flooding in this area (see page 25).

**Total**

\$

**4,835,000**



2012 CAPITAL IMPROVEMENTS PROGRAM  
 2700 BLOCK OF SOUTH 80TH ST.  
 7800 BLOCK OF VALLEY FORGE  
 DRAINAGE IMPROVEMENTS



Project:	
Date:	SEPT. 2011
Scale:	NONE
Drawn By:	RBR Page: 10

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PARK

43RD

44TH

PRESLEY

FREE FERRY LN.

42ND

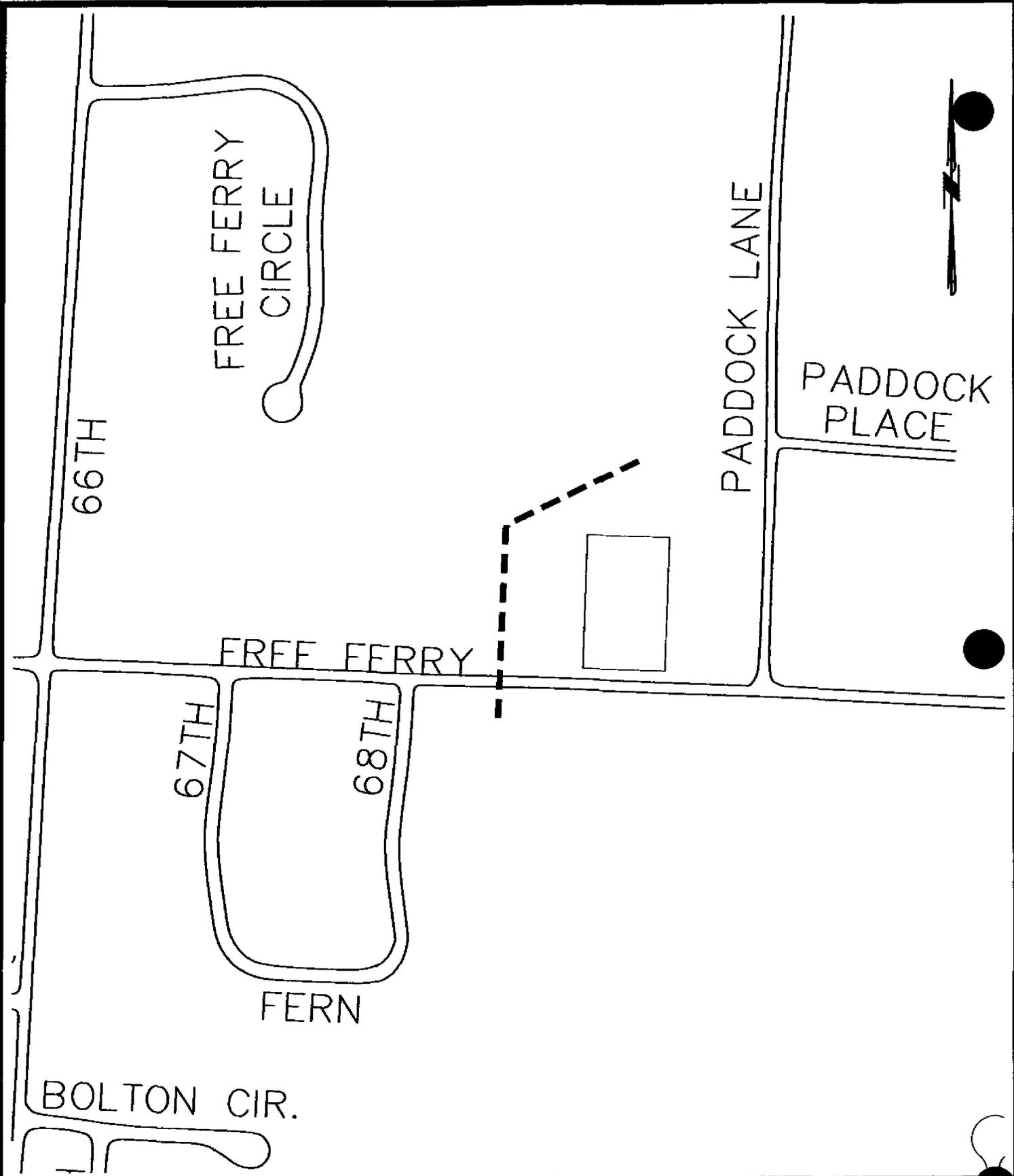
46TH



2012 CAPITAL IMPROVEMENTS PROGRAM  
4300 BLOCKS OF FREE FERRY LN/PRESLEY ST  
DRAINAGE IMPROVEMENTS



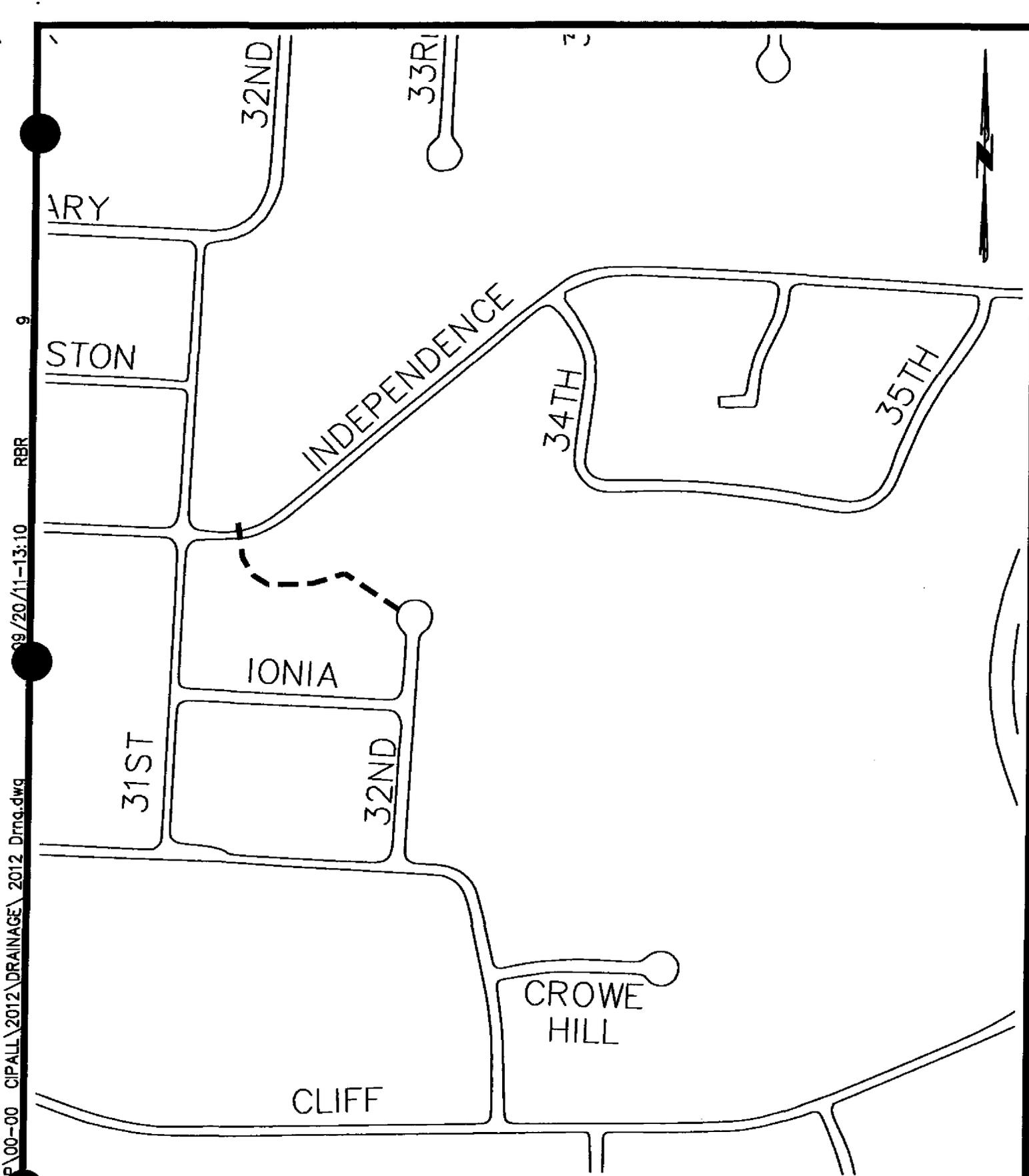
Project:	
Date:	SEPT. 2011
Scale:	NONE
Drawn By:	RBR Page: 11



2012 CAPITAL IMPROVEMENTS PROGRAM  
 6800 BLOCK OF FREE FERRY RD  
 DRAINAGE IMPROVEMENTS



Project:	
Date:	SEPT. 2011
Scale:	NONE
Drawn By:	RBR Page: 12

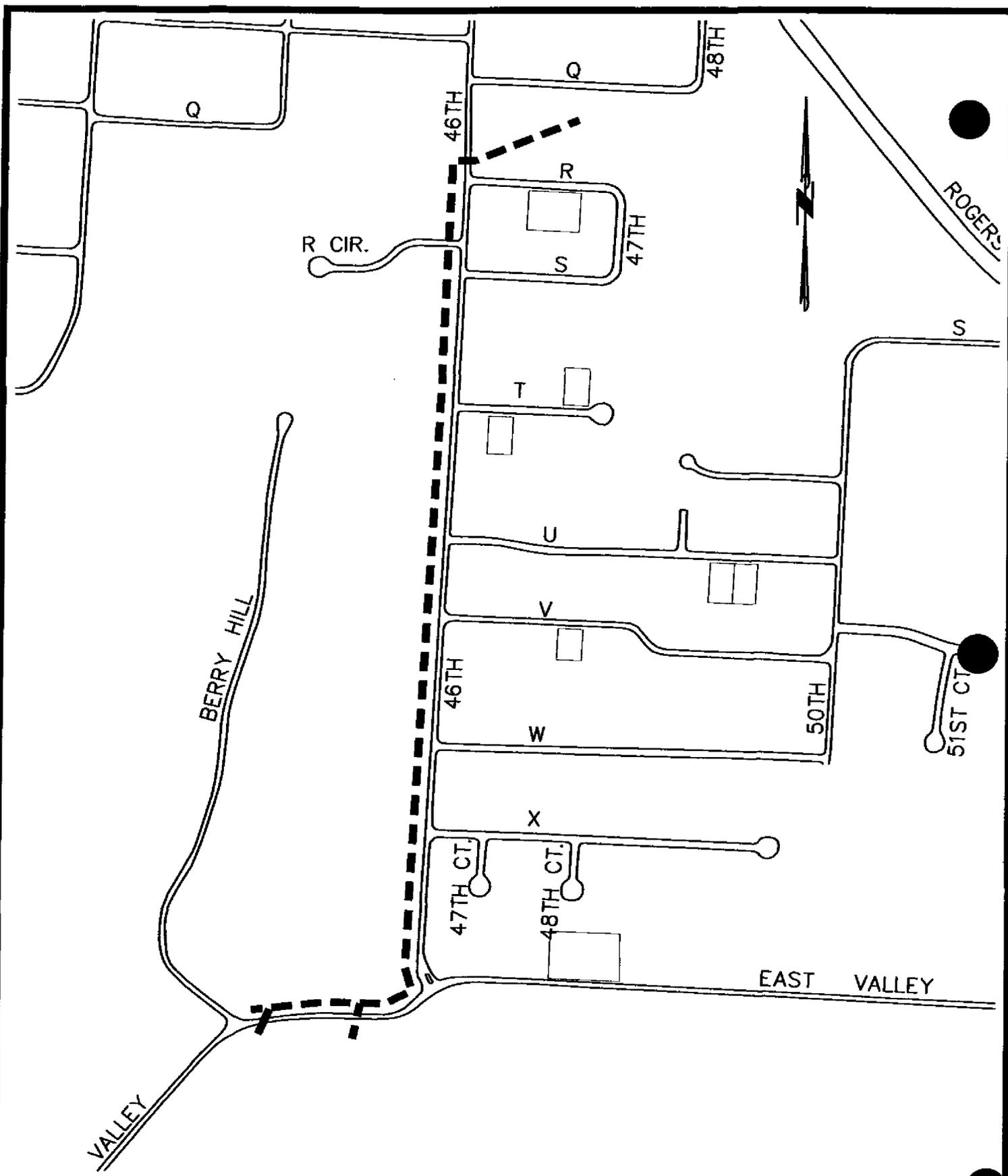


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2012 CAPITAL IMPROVEMENTS PROGRAM  
 3100 BLOCK OF INDEPENDENCE  
 DRAINAGE IMPROVEMENTS



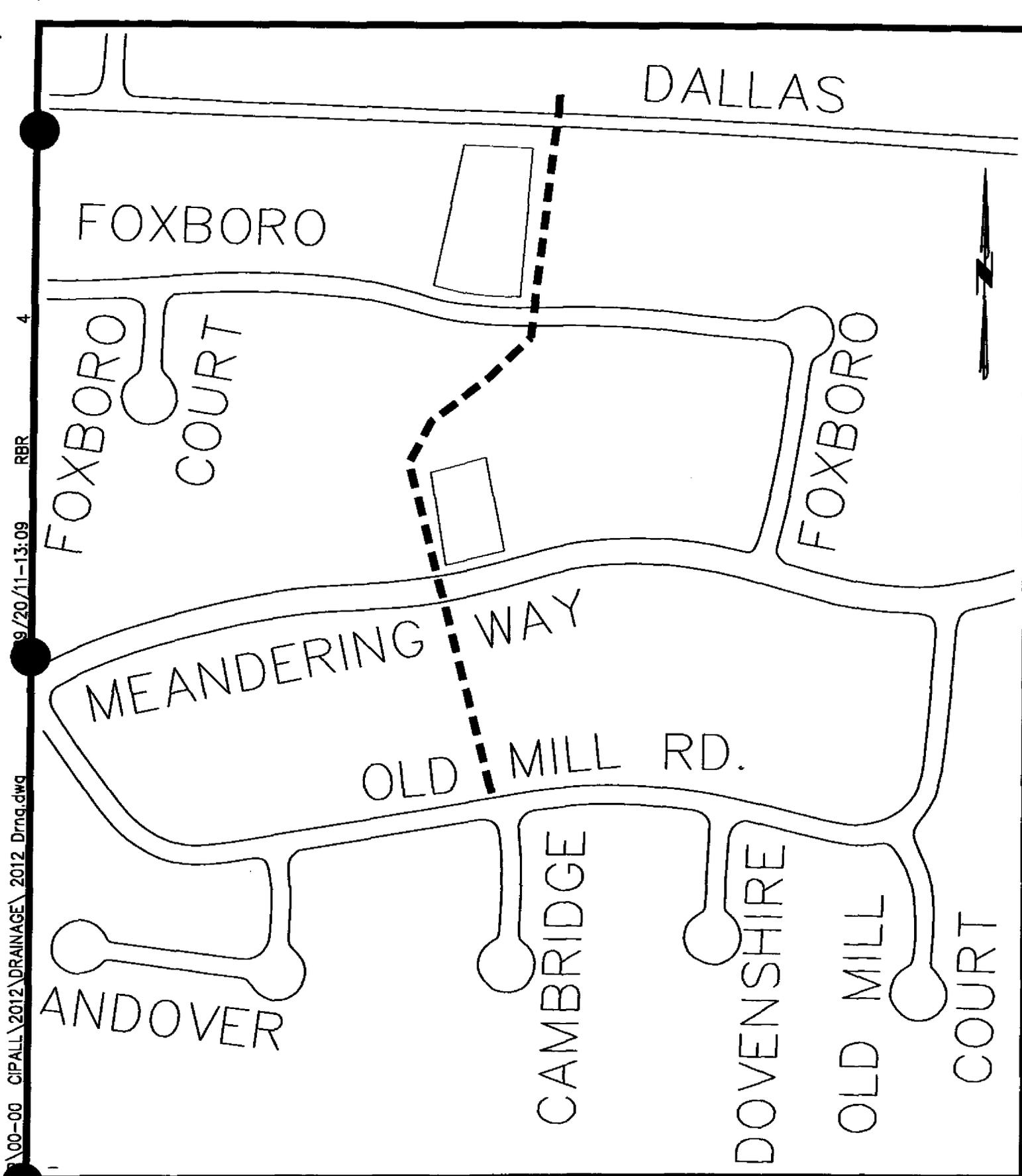
Project:	
Date:	SEPT. 2011
Scale:	NONE
Drawn By:	RBR Page: 13



2012 CAPITAL IMPROVEMENTS PROGRAM  
 SOUTH 46TH STREET AREA  
 DRAINAGE IMPROVEMENTS



Project:	
Date:	SEPT. 2011
Scale:	NONE
Drawn By:	RBR Page: 14



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 RBR  
 4

2012 CAPITAL IMPROVEMENTS PROGRAM  
 FOXBORO/MEANDERING WAY AREA  
 DRAINAGE IMPROVEMENTS



Project:	
Date:	SEPT. 2011
Scale:	NONE
Drawn By:	RBR
Page:	15

DALLAS

92ND ST.

93TH CIR.

94TH CIR.

ENID

FRESNO CIR.

FRESNO

GARY

95TH ST.

HOUSTON

ST.

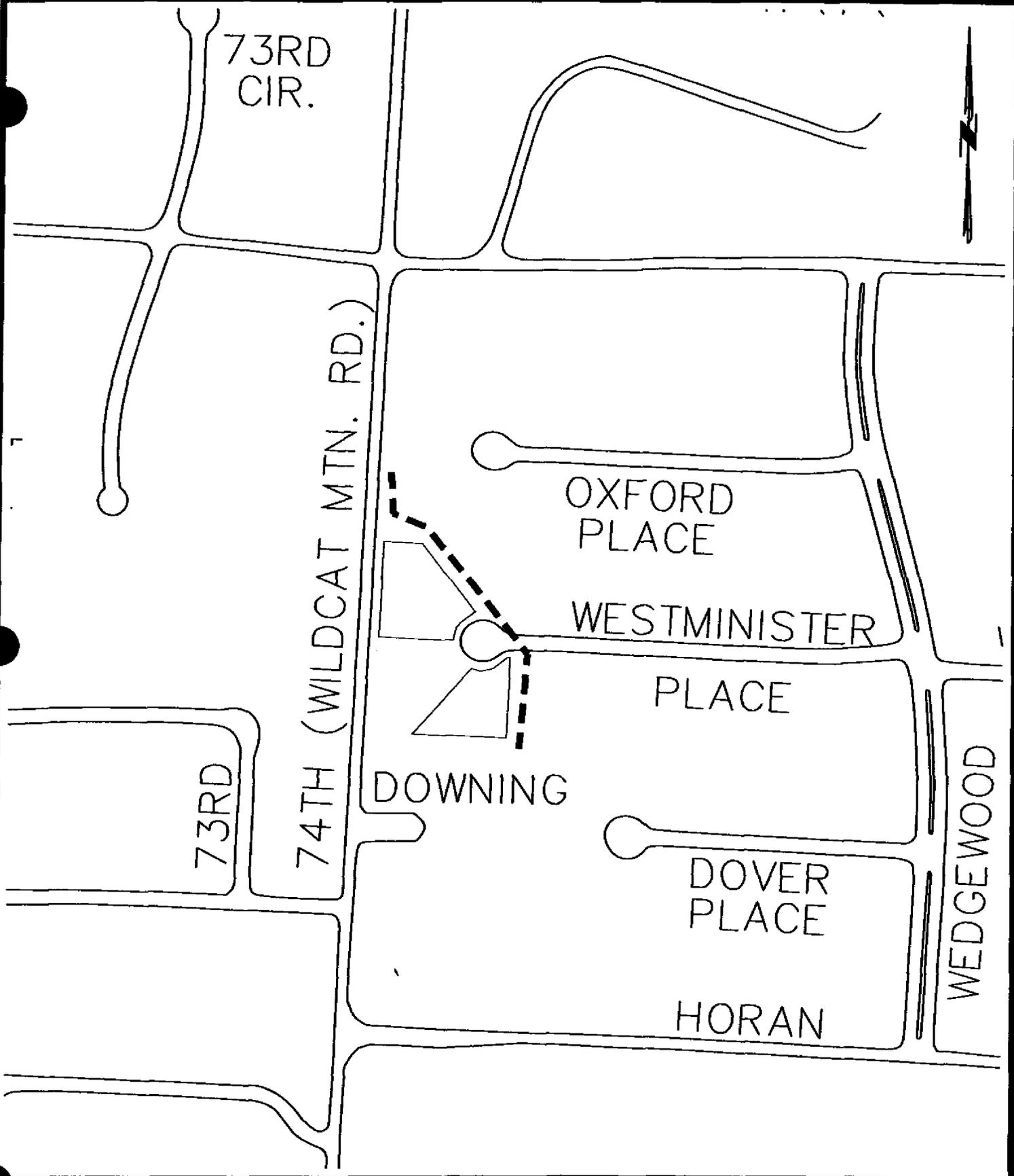
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2012 CAPITAL IMPROVEMENTS PROGRAM  
FRESNO/ENID AREA  
DRAINAGE IMPROVEMENTS



Project:	
Date:	SEPT. 2011
Scale:	NONE
Drawn By:	RBR Page: 16

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2012 CAPITAL IMPROVEMENTS PROGRAM  
 WESTMINISTER PLACE AREA  
 DRAINAGE IMPROVEMENTS



Project:	
Date:	SEPT. 2011
Scale:	NONE
Drawn By:	RBR
Page:	17

STATE LINE RD.

HILLSIDE

MARTIN

CANDLESTICK

MARTIN

CAVANAUGH

CHERYL

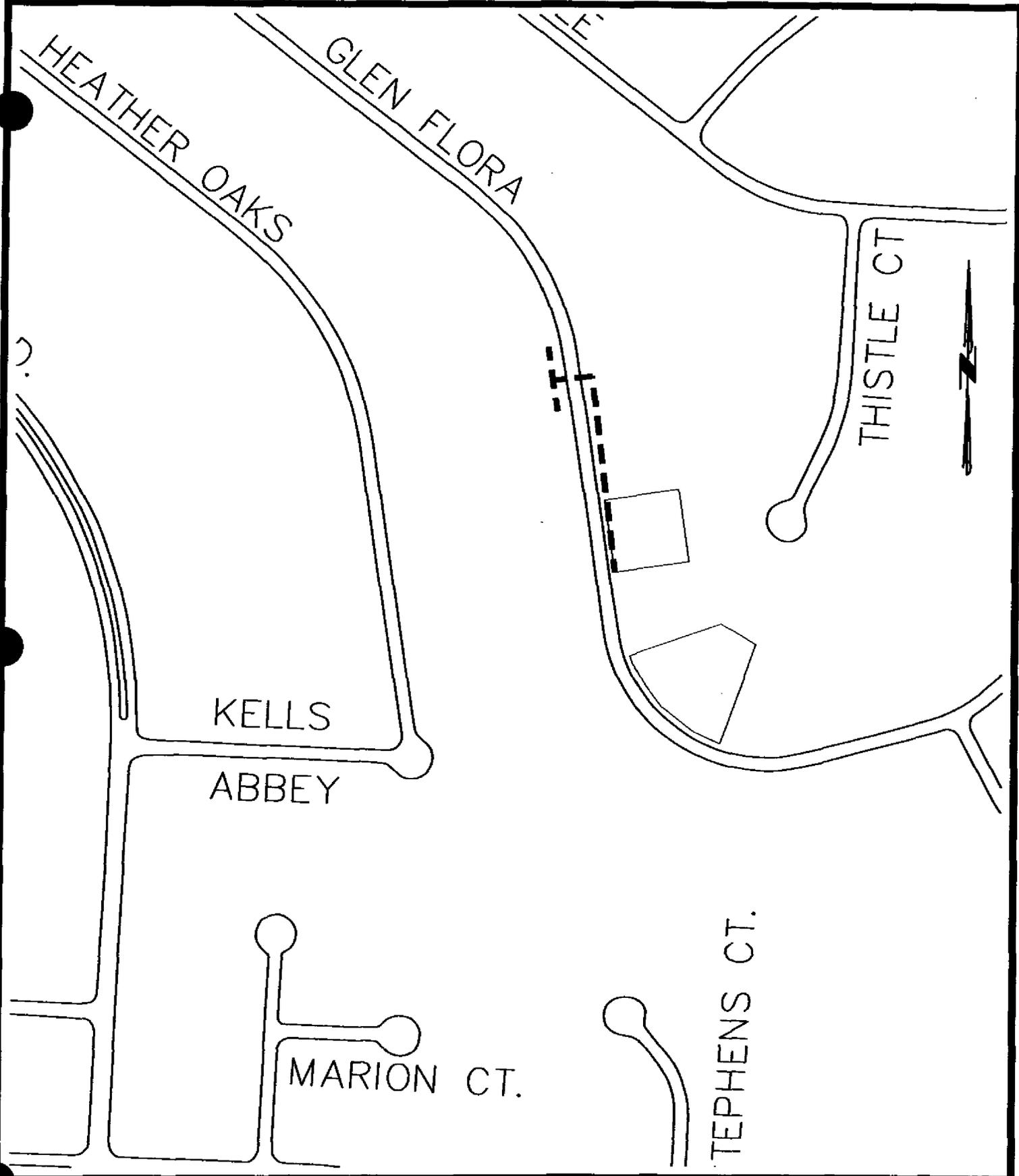
GEORGE

2012 CAPITAL IMPROVEMENTS PROGRAM  
HILLSIDE/MARTIN AREA  
DRAINAGE IMPROVEMENTS



Project:	
Date:	SEPT. 2011
Scale:	NONE
Drawn By:	RBR Page: 18

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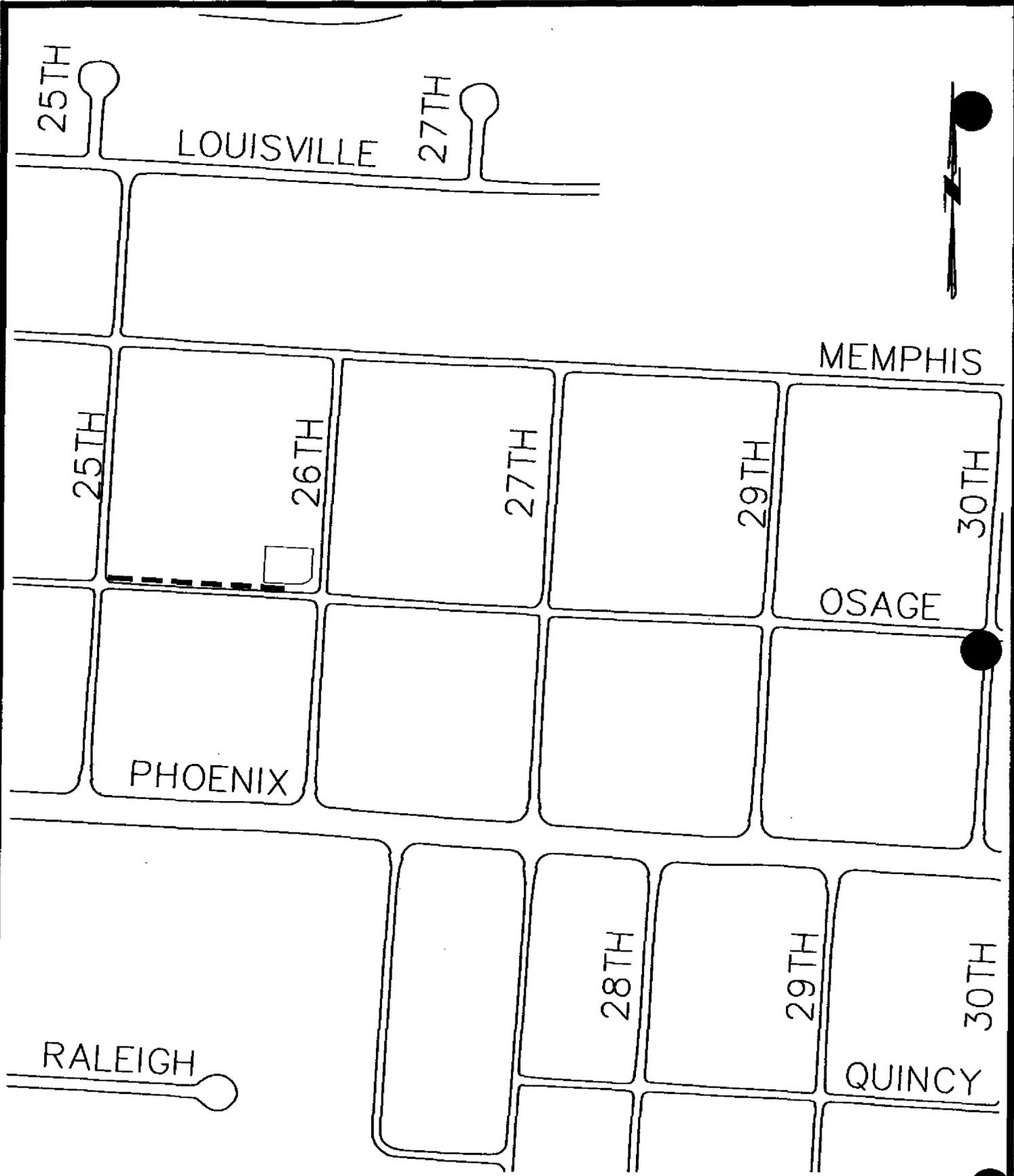


2012 CAPITAL IMPROVEMENTS PROGRAM  
 3100 BLOCK OF GLEN FLORA  
 DRAINAGE IMPROVEMENTS



Project:	
Date:	SEPT. 2011
Scale:	NONE
Drawn By:	RBR
	Page: 19

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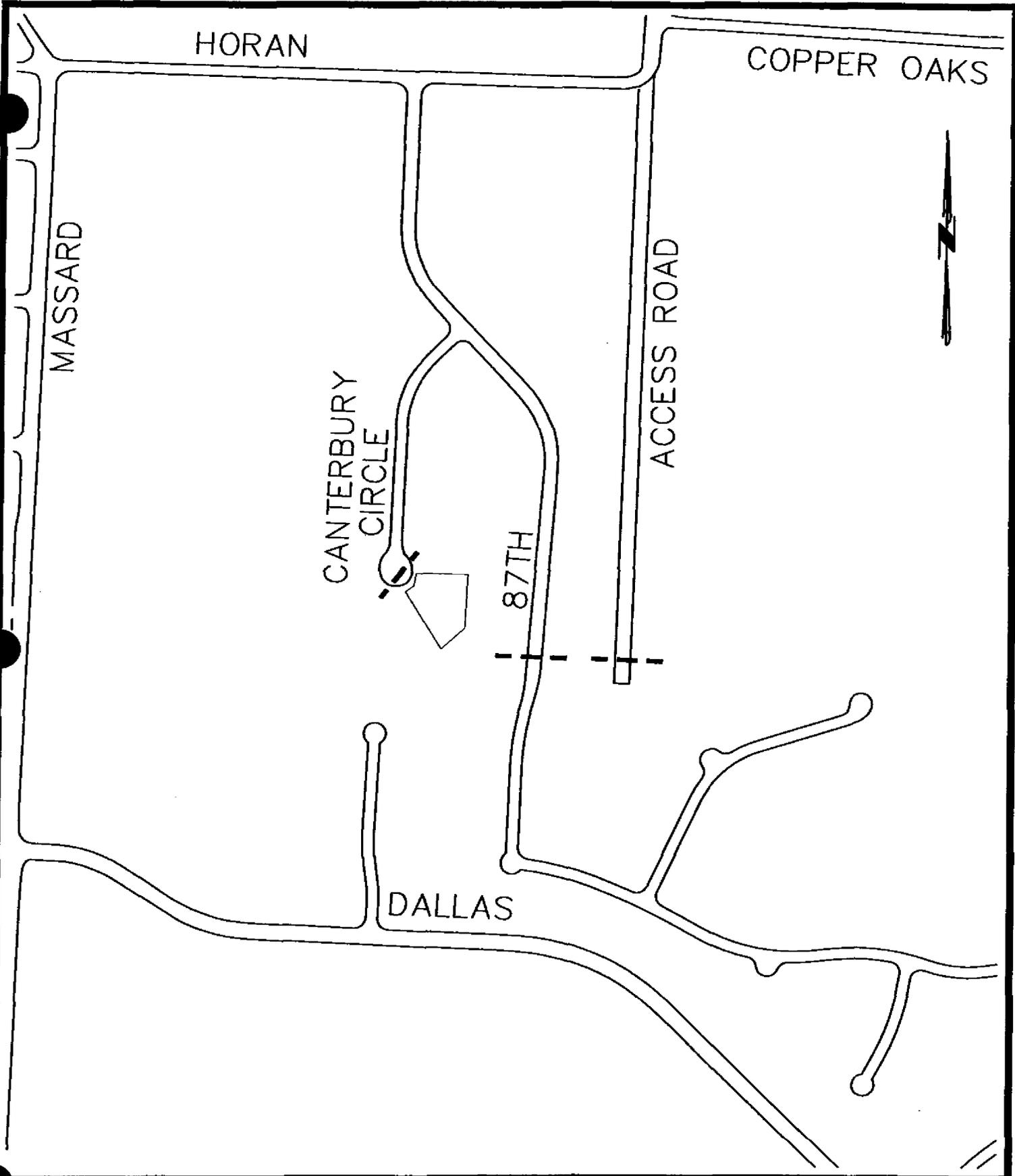


2012 CAPITAL IMPROVEMENTS PROGRAM  
 4500 BLOCK OF SOUTH 26TH STREET  
 DRAINAGE IMPROVEMENTS



Project:	
Date:	SEPT. 2011
Scale:	NONE
Drawn By:	RBR Page: 20

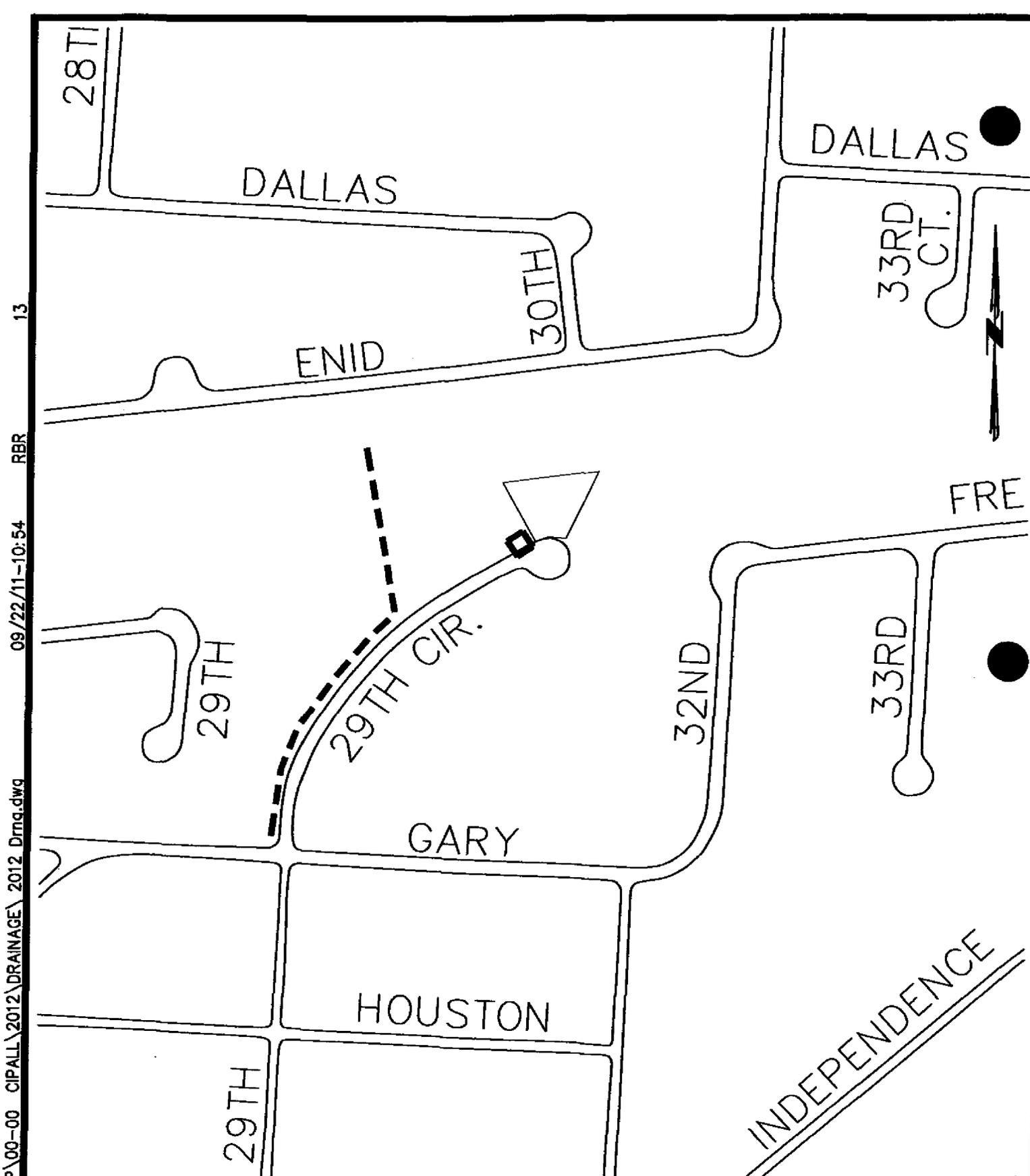
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2012 CAPITAL IMPROVEMENTS PROGRAM  
 2700 BLOCK OF CANTERBURY CIRCLE  
 DRAINAGE IMPROVEMENTS



Project:	
Date:	SEPT. 2011
Scale:	NONE
Drawn By:	RBR Page: 21



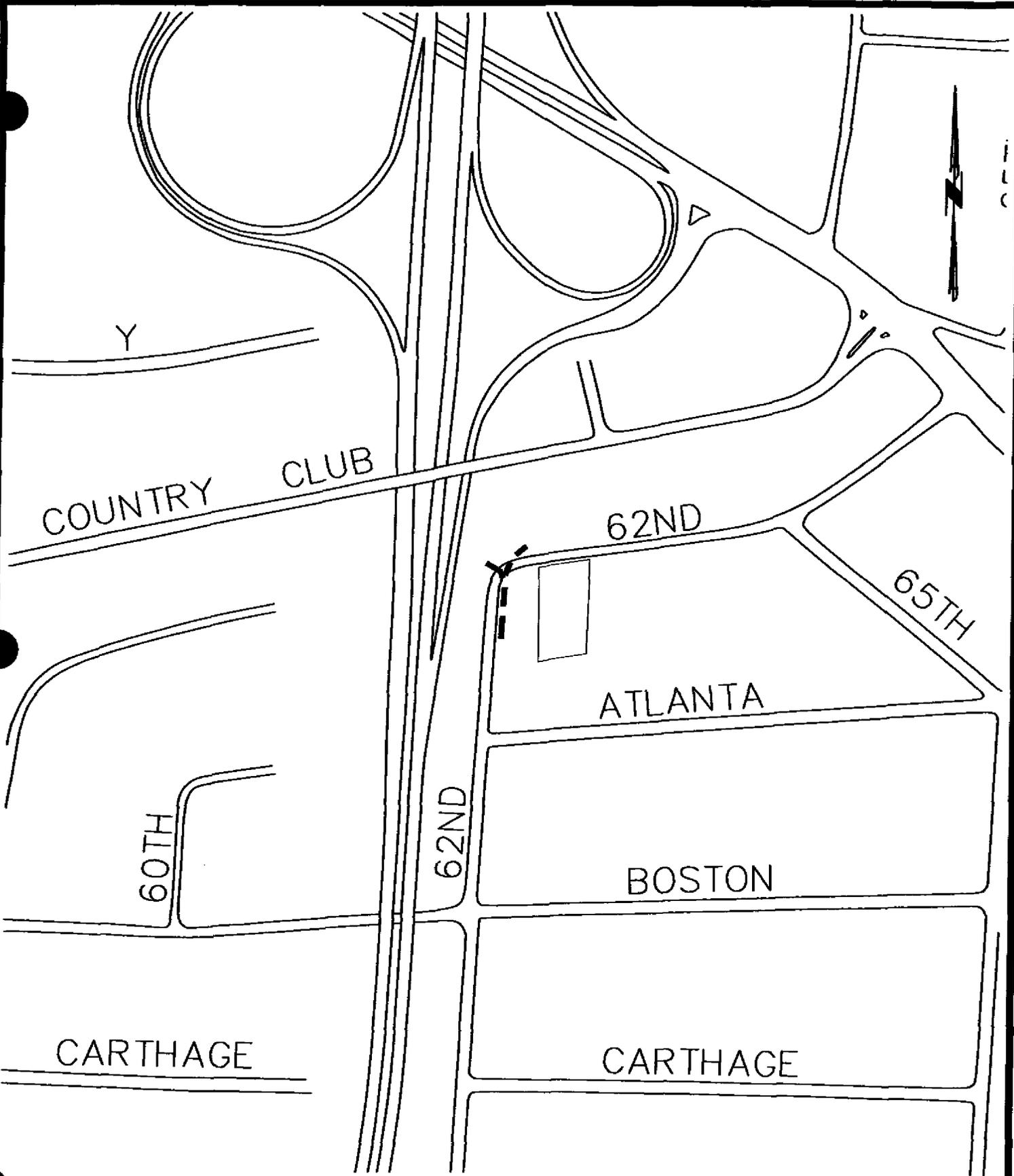
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2012 CAPITAL IMPROVEMENTS PROGRAM  
 3400 BLOCK OF SOUTH 29TH CIRCLE  
 DRAINAGE IMPROVEMENTS



Project:	
Date:	SEPT. 2011
Scale:	NONE
Drawn By:	RBR Page: 22

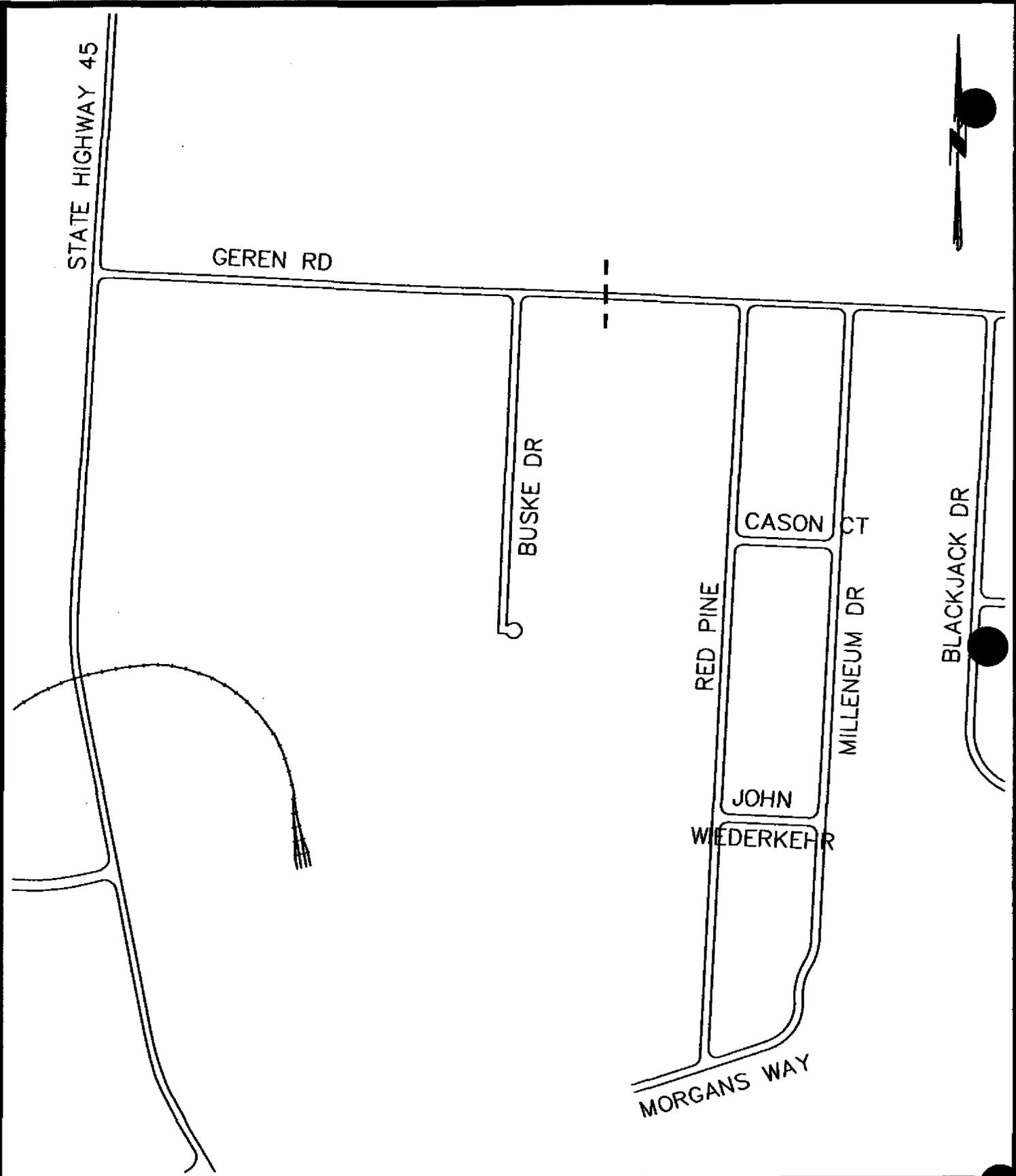
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2012 CAPITAL IMPROVEMENTS PROGRAM  
 6200 BLOCK OF COUNTRY CLUB  
 DRAINAGE IMPROVEMENTS



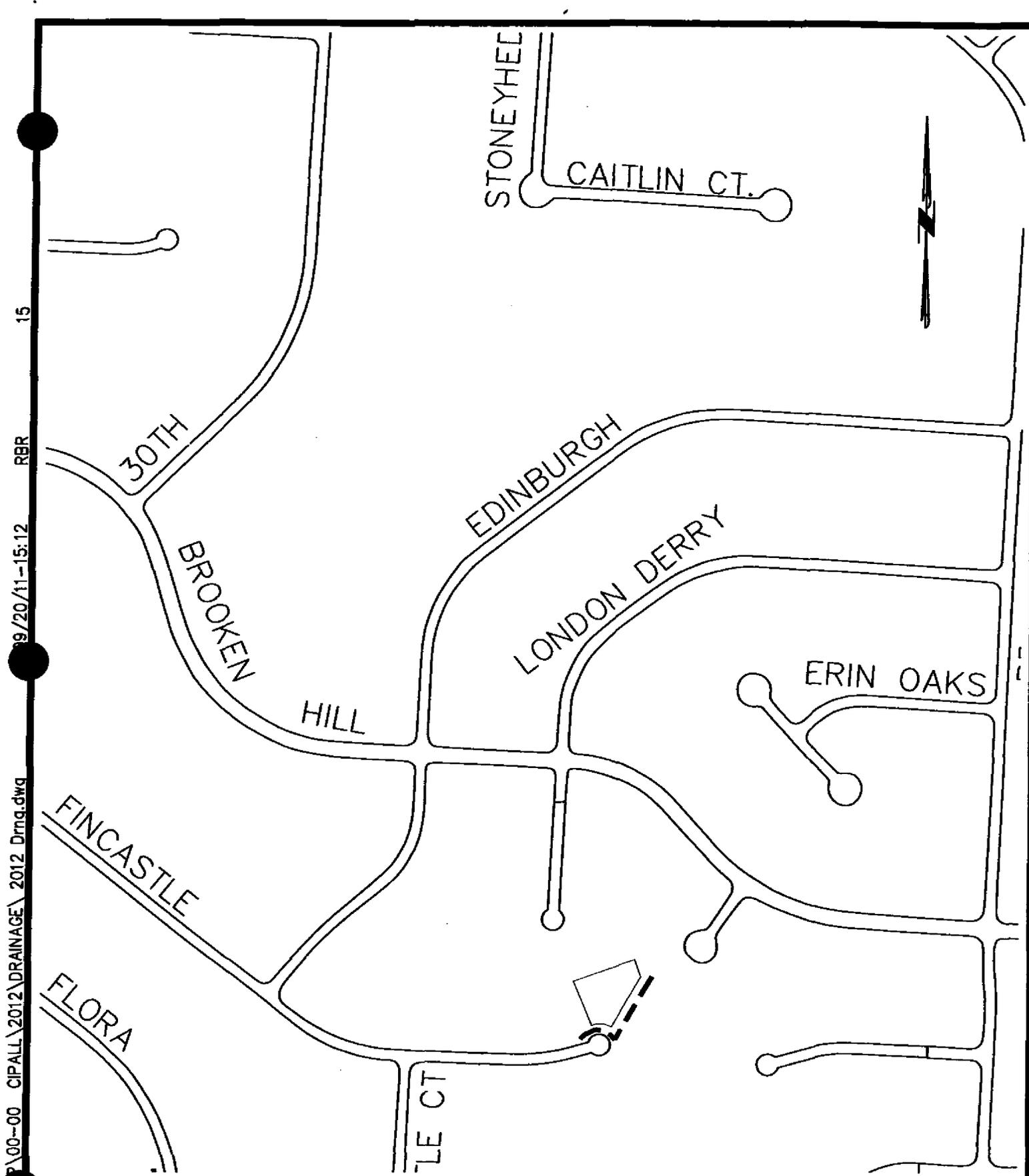
Project:	
Date:	SEPT. 2011
Scale:	NONE
Drawn By:	RBR Page: 23



2012 CAPITAL IMPROVEMENTS PROGRAM  
 4700 BLOCK OF GEREN RD  
 DRAINAGE IMPROVEMENTS



Project:	
Date:	SEPT. 2011
Scale:	NONE
Drawn By:	RBR Page: 24



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2012 CAPITAL IMPROVEMENTS PROGRAM  
 3200 BLOCK OF FINCASTLE  
 DRAINAGE IMPROVEMENTS

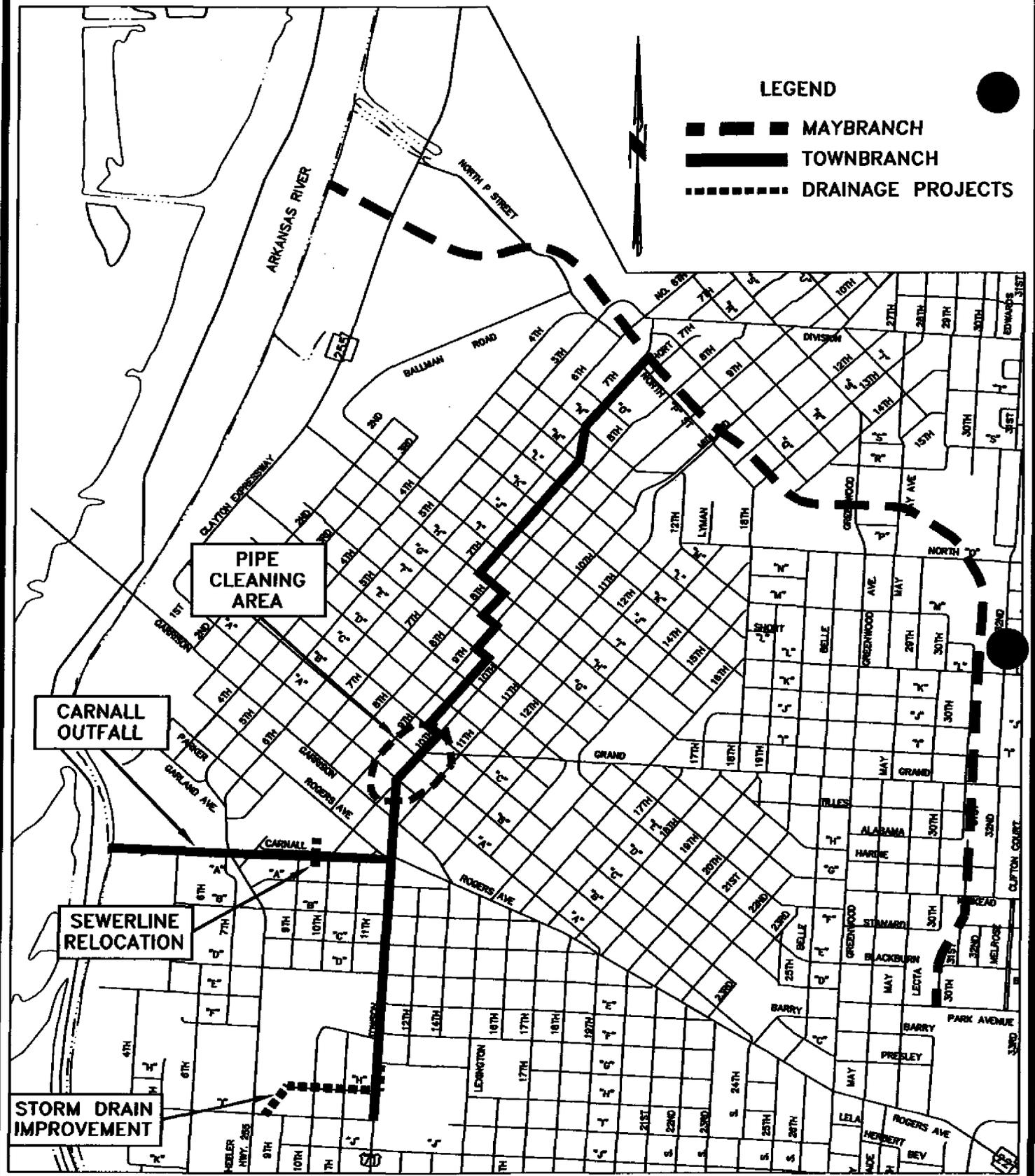


Project:	
Date:	SEPT. 2011
Scale:	NONE
Drawn By:	RBR Page: 25

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**LEGEND**

-  **MAYBRANCH**
-  **TOWNBRANCH**
-  **DRAINAGE PROJECTS**



**2012 CAPITAL IMPROVEMENTS PROGRAM**  
**DRAINAGE IMPROVEMENTS**  
**MAYBRANCH & TOWN BRANCH**



**Project:** 2012 DRAINAGE  
**Date:** SEPT. 2011  
**Scale:** NONE  
**Drawn By:** RBR **Page:** 26

G:\DRAWINGS\2000-00 CIPALL\2012\DRAINAGE\ 2012 Drng.dwg 09/20/11-13:12 RBR Maybranch

ARKANSAS RIVER

RIVERFRONT DRIVE

"P" ST.

MAY BRANCH PUMP STATION

LIMITS OF CULVERT REPLACEMENT

12 FT DIAMETER CONCRETE CULVERT

BRIDGE

"P" ST.

BALLMAN ROAD



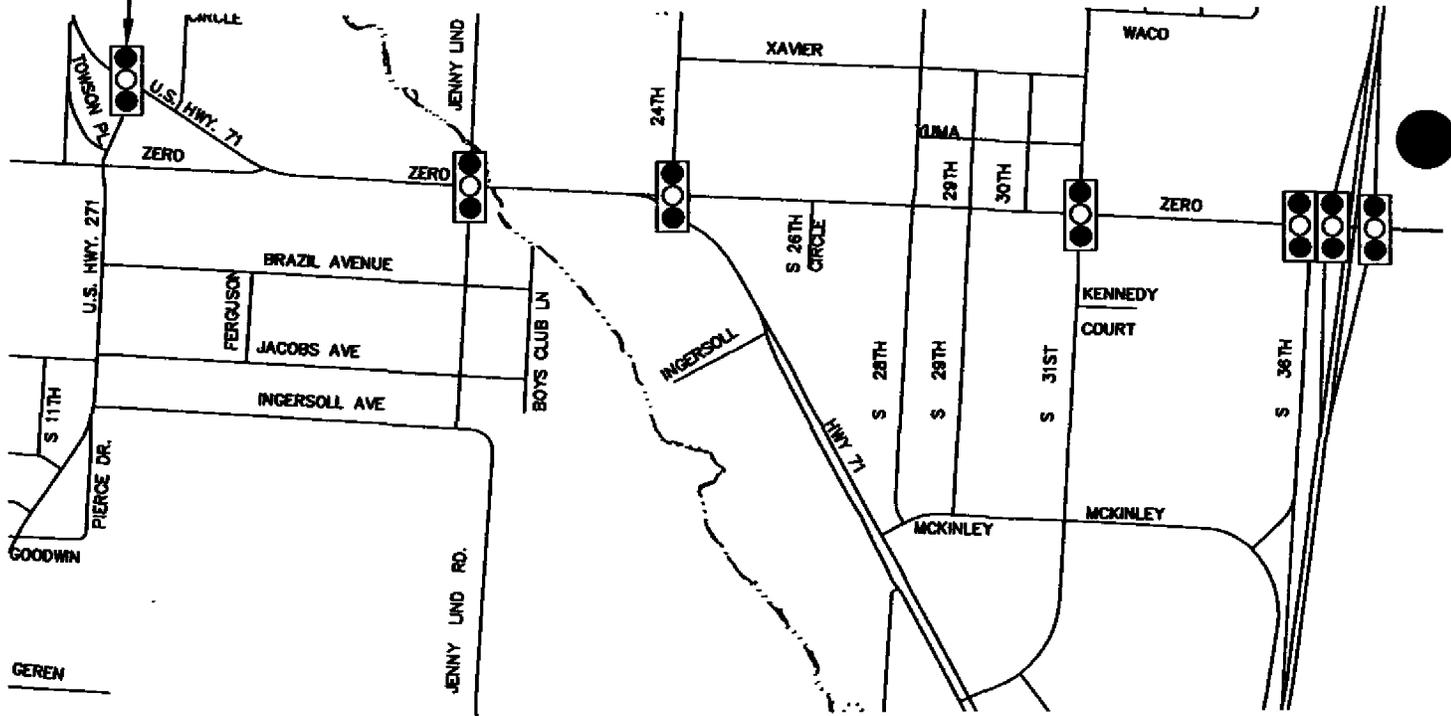
2012 CAPITAL IMPROVEMENTS PROGRAM  
MAYBRANCH OUTFALL CULVERT REPLACEMENT  
DRAINAGE IMPROVEMENTS



Project:	
Date:	SEPT. 2011
Scale:	NONE
Drawn By:	RBR Page: 27



PROPOSED SIGNAL REPLACEMENT



PROPOSED SIGNAL INTRECONNECT

2012 CAPITAL IMPROVEMENTS PROGRAM  
SIGNAL IMPROVEMENTS



Project:

Date: SEPT. 2011

Scale: NONE

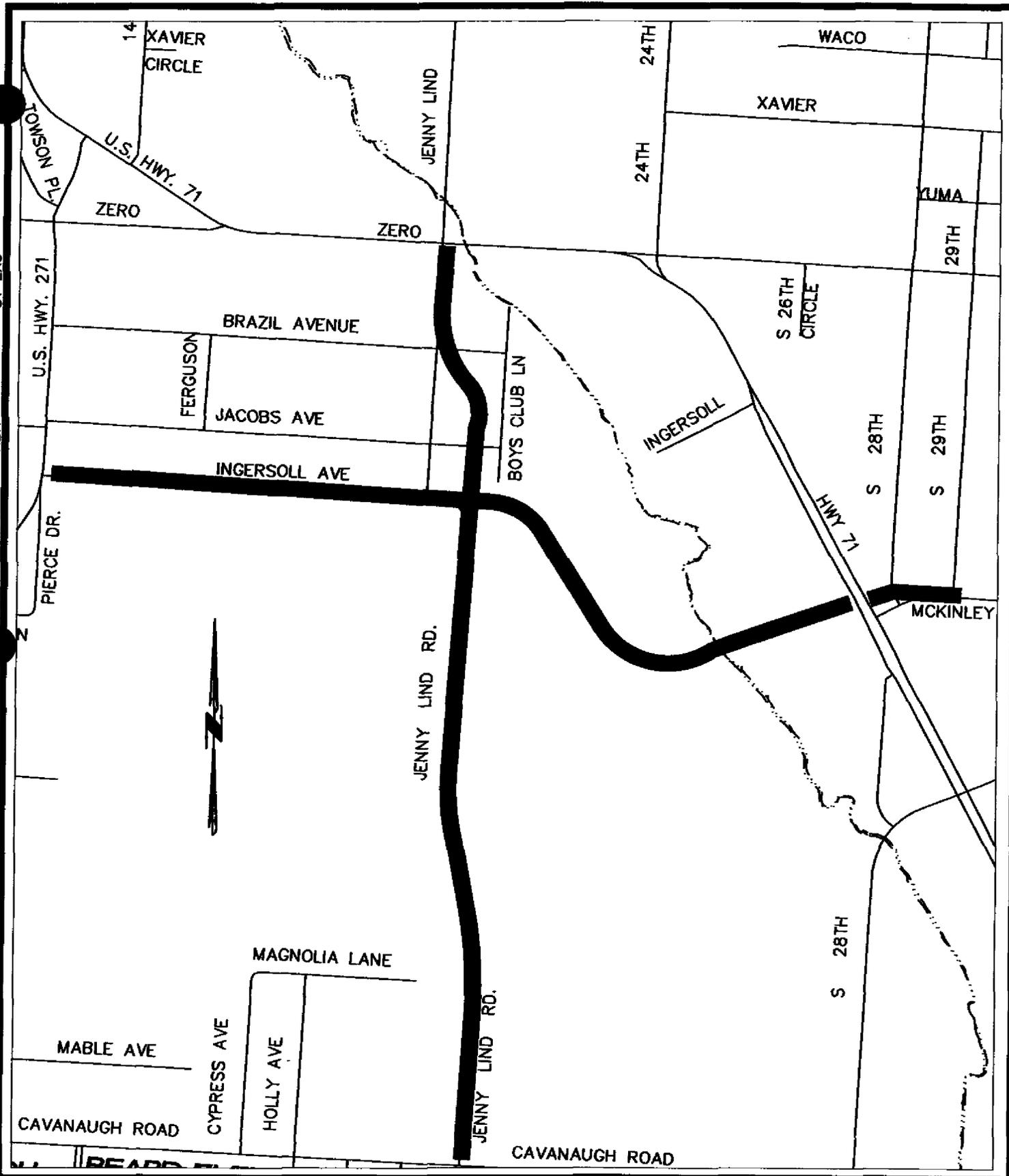
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RBR

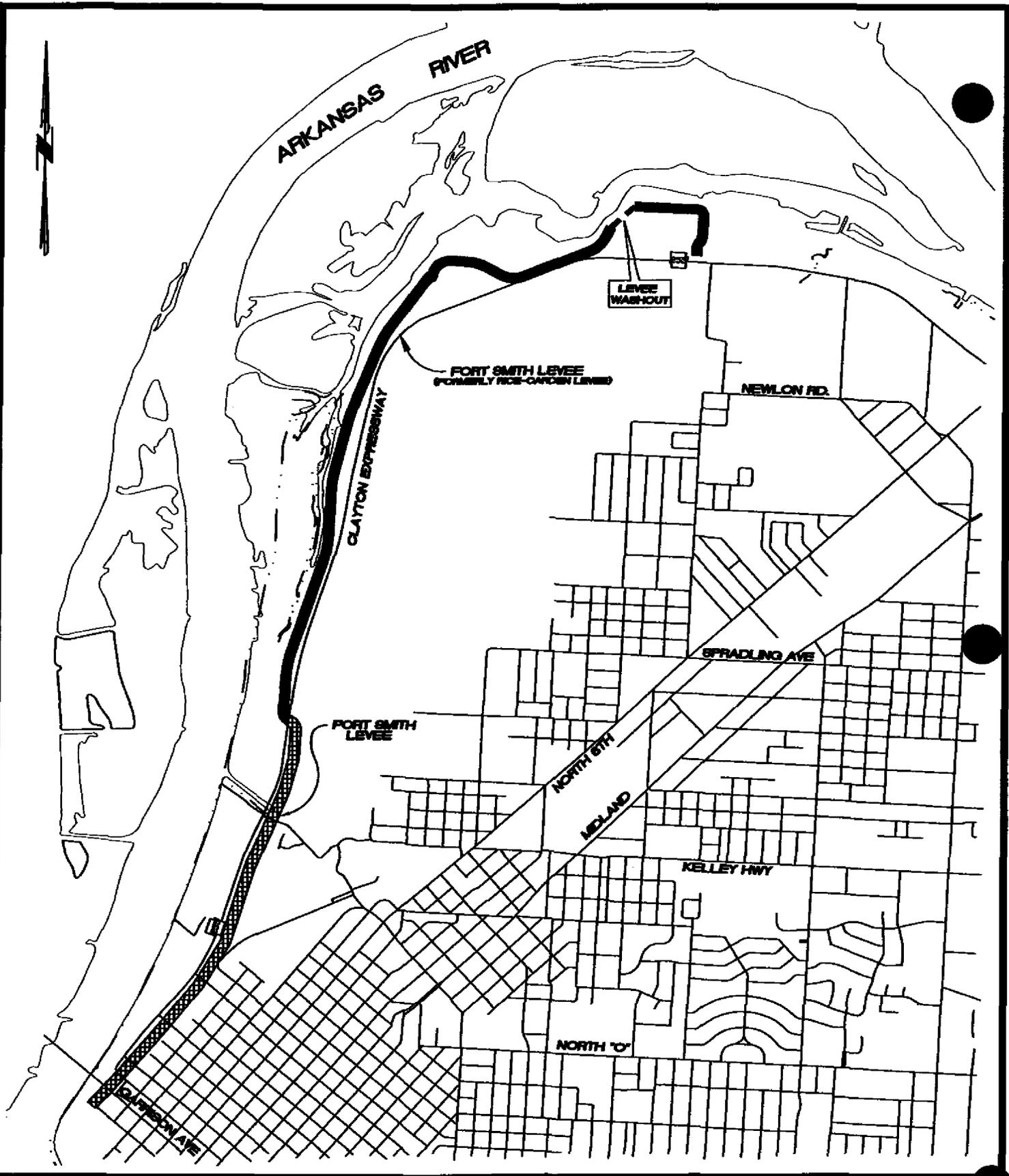
ST EX3



2012 CAPITAL IMPROVEMENTS PROGRAM  
 JENNY LIND  
 ZERO STREET TO CAVANAUGH ROAD



Project:	2012 OVERLAYS
Date:	SEPT. 2011
Scale:	NONE
Drawn By:	RBR
Page:	29



**2012 CAPITAL IMPROVEMENTS PROGRAM**  
**LEVEE CERTIFICATION & REPAIR**  
**FORT SMITH, ARKANSAS**



Project:	
Date:	SEPT. 2011
Scale:	NONE
Drawn By:	RBR
	Page: 30

G:\DRAWING\IP\00-00 CIPALL\2012\ GARRISON STREETScape.dwg 9/22/11-10:55 RBR EXHIBIT

-  COMPLETED
-  GARRISON STREETScape PROJECT
-  TOWSON STREETScape PROJECT

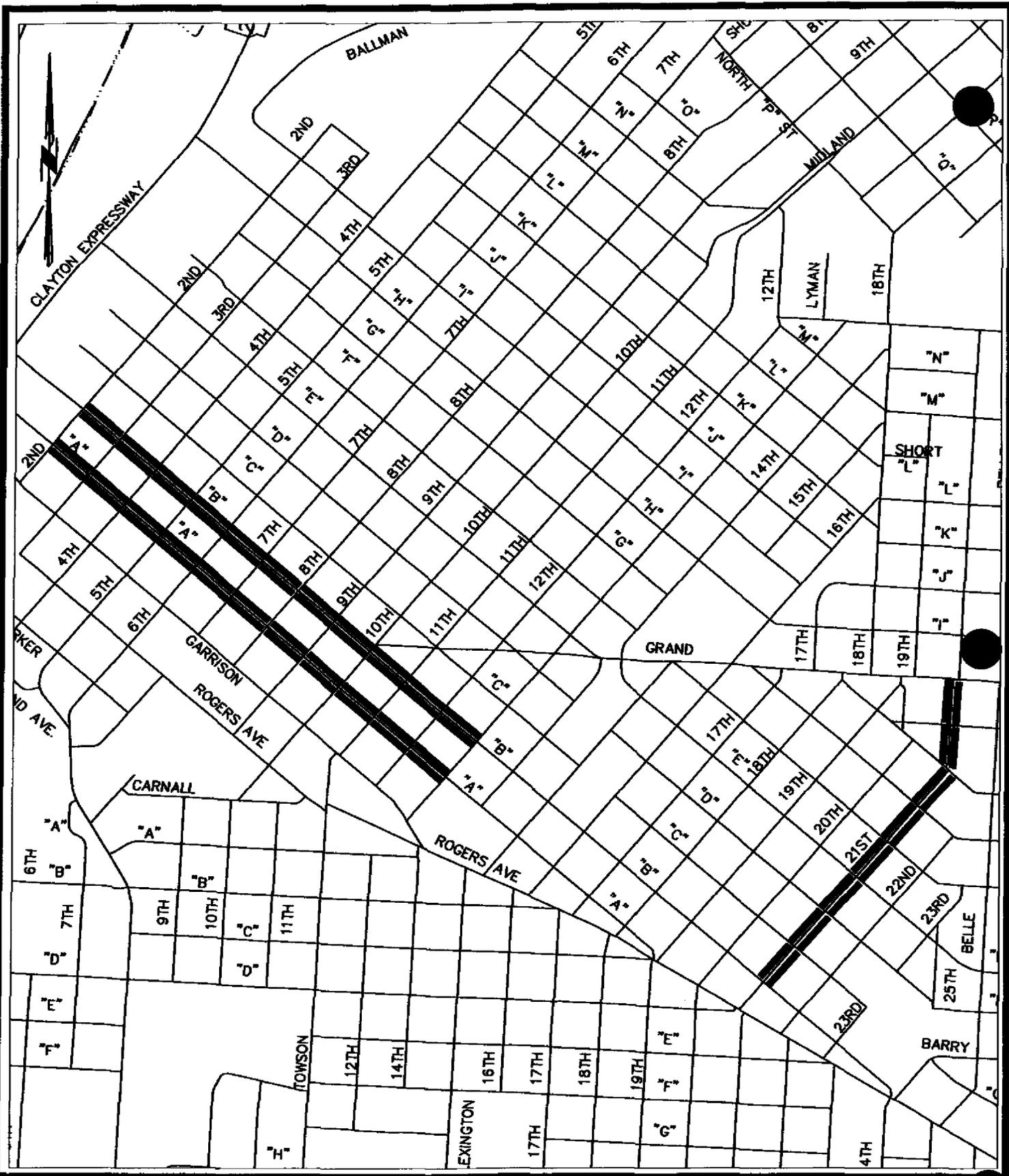


2012 CAPITAL IMPROVEMENTS PROGRAM  
 GARRISON/TOWSON STREETSAPES  
 FORT SMITH, ARKANSAS



Project:	
Date:	SEPT. 2011
Scale:	N/A
Drawn By:	RBR Page: 31

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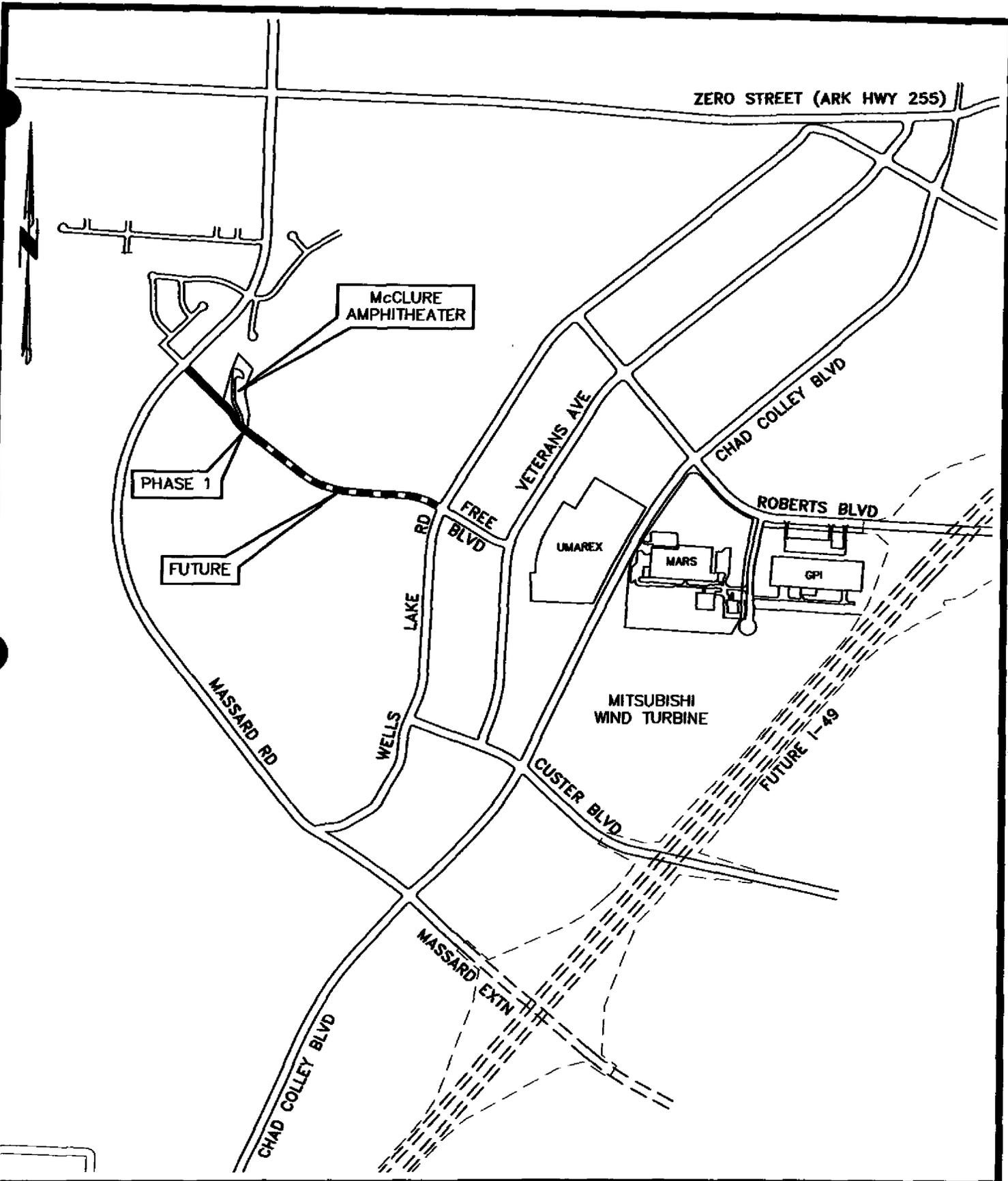


**2012 SIDEWALK PROGRAM**  
**LIMITS OF REPAIR**



Project:	2012 SIDEWALKS
Date:	SEPT. 2011
Scale:	NONE
Drawn By:	RBR
Page: 32	

G:\DRAWING\IP\00-00 CIPALL\2012\ McClure Rd.dwg 9/20/11-15:22 RBR EXHIBIT



FCRA DEVELOPMENT  
 McClure Amphitheater Road  
 FORT SMITH, ARKANSAS



Project:	10-00-A
Date:	SEPT 2011
Scale:	NONE
Drawn By:	RBR Page: 33



***MEMORANDUM***

September 22, 2011

**TO:** Ray Gosack, City Administrator

**FROM :** Kara Bushkuhl, Director of Finance

A handwritten signature in black ink, appearing to be "KB", written over the name Kara Bushkuhl.

**SUBJECT:** 2012 Budget Update

An oral update on the 2012 budget will be given at the Study Session.



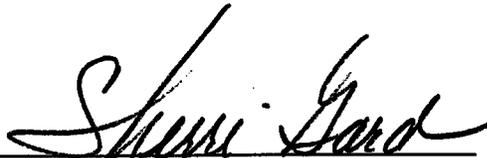
**OFFICE OF THE CITY CLERK**  
Sherri Gard, CMC, City Clerk  
Heather James, Assistant City Clerk

**MEDIA RELEASE**  
**September 23, 2011**

The City of Fort Smith Property Owners Appeal Board will conduct public hearings on Monday, September 26<sup>th</sup> and Wednesday, September 28<sup>th</sup>, 6:00 p.m. each evening in the Bartlett Community Room at the Fort Smith Police Department.

The purpose of the hearings is to allow property owners an opportunity to be heard regarding delinquent fees/liens charged by the City for property cleanup and/or demolition costs and who feel they have been wrongly charged.

As required, notice to all affected property owners has been given. For additional information, please contact the City Clerk's Office at 784-2208 or email [sgard@fortsmithar.gov](mailto:sgard@fortsmithar.gov).

  
\_\_\_\_\_  
Sherri Gard, City Clerk