


# City of Leavenworth, Kansas Stormwater Master Plan Three Mile Creek Watershed

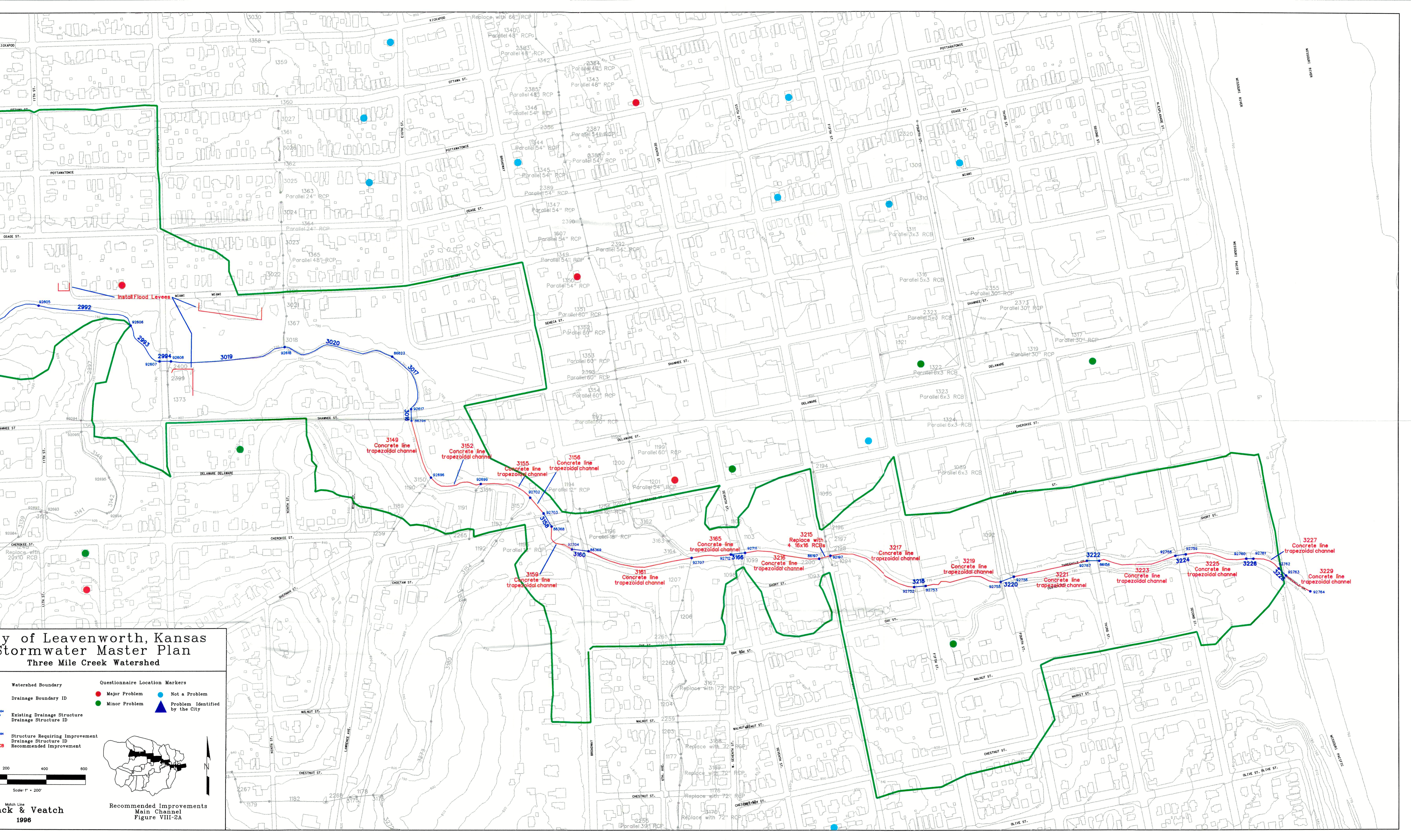
**Watershed Boundary**  
**Drainage Boundary ID**  
**Existing Drainage Structure**  
**Drainage Structure ID**  
**Structure Requiring Improvement**  
**Drainage Structure ID**  
**Recommended Improvement**

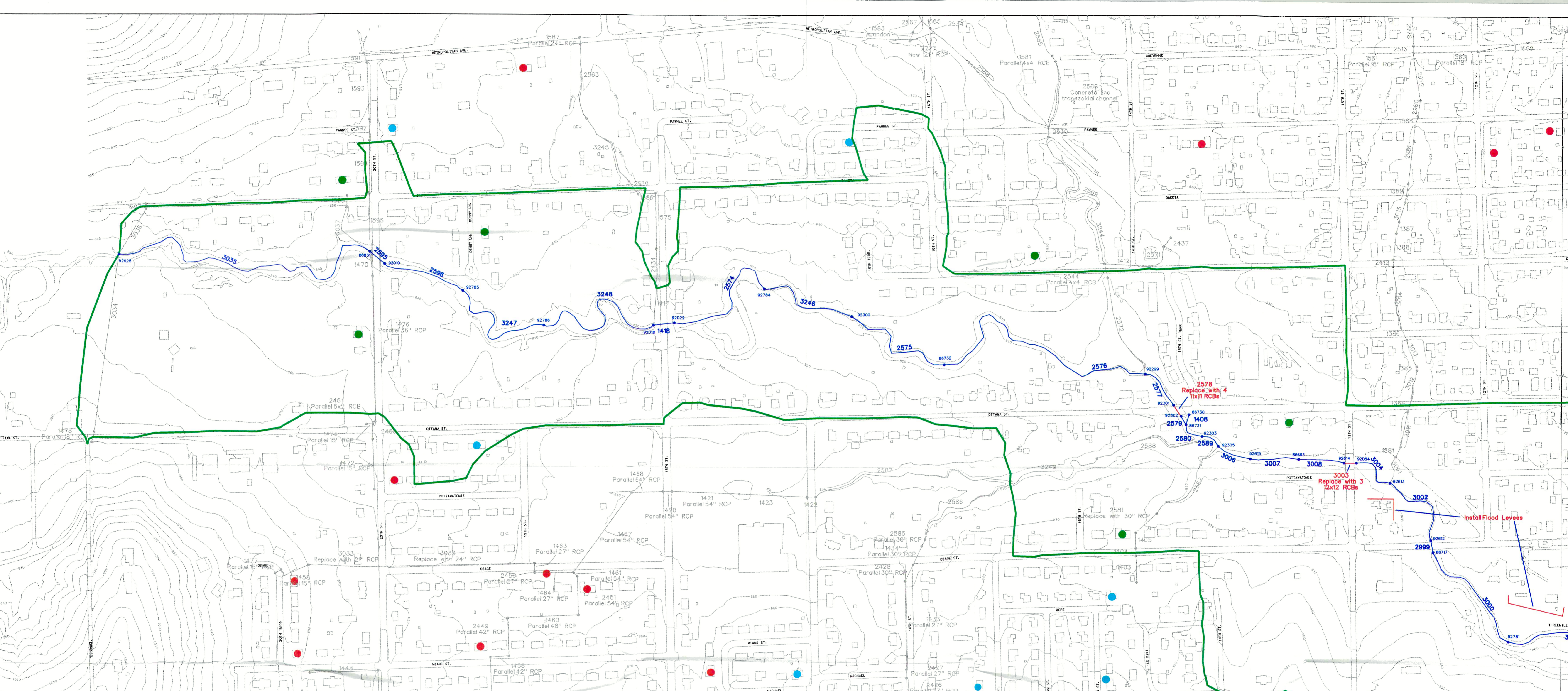
**Questionnaire Location Markers**  
● Major Problem  
● Not a Problem  
● Minor Problem  
▲ Problem Identified by the City



Scale: 1" = 200'

Recommended Improvements  
 Main Channel  
 Figure VIII-2A














### City of Leavenworth, Kansas Stormwater Master Plan Three Mile Creek Watershed

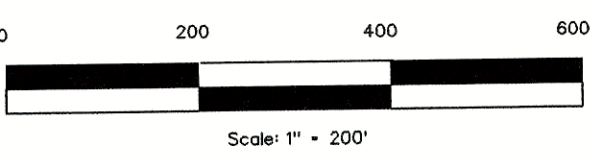
Watershed Boundary	<b>Questionnaire Location Markers</b>
Drainage Boundary ID	Major Problem
Existing Drainage Structure ID	Not a Problem
Structure Requiring Improvement ID	Minor Problem
Recommended Improvement	Problem Identified by the City

Recommended Improvements  
Main Channel  
Figure VIII-2B

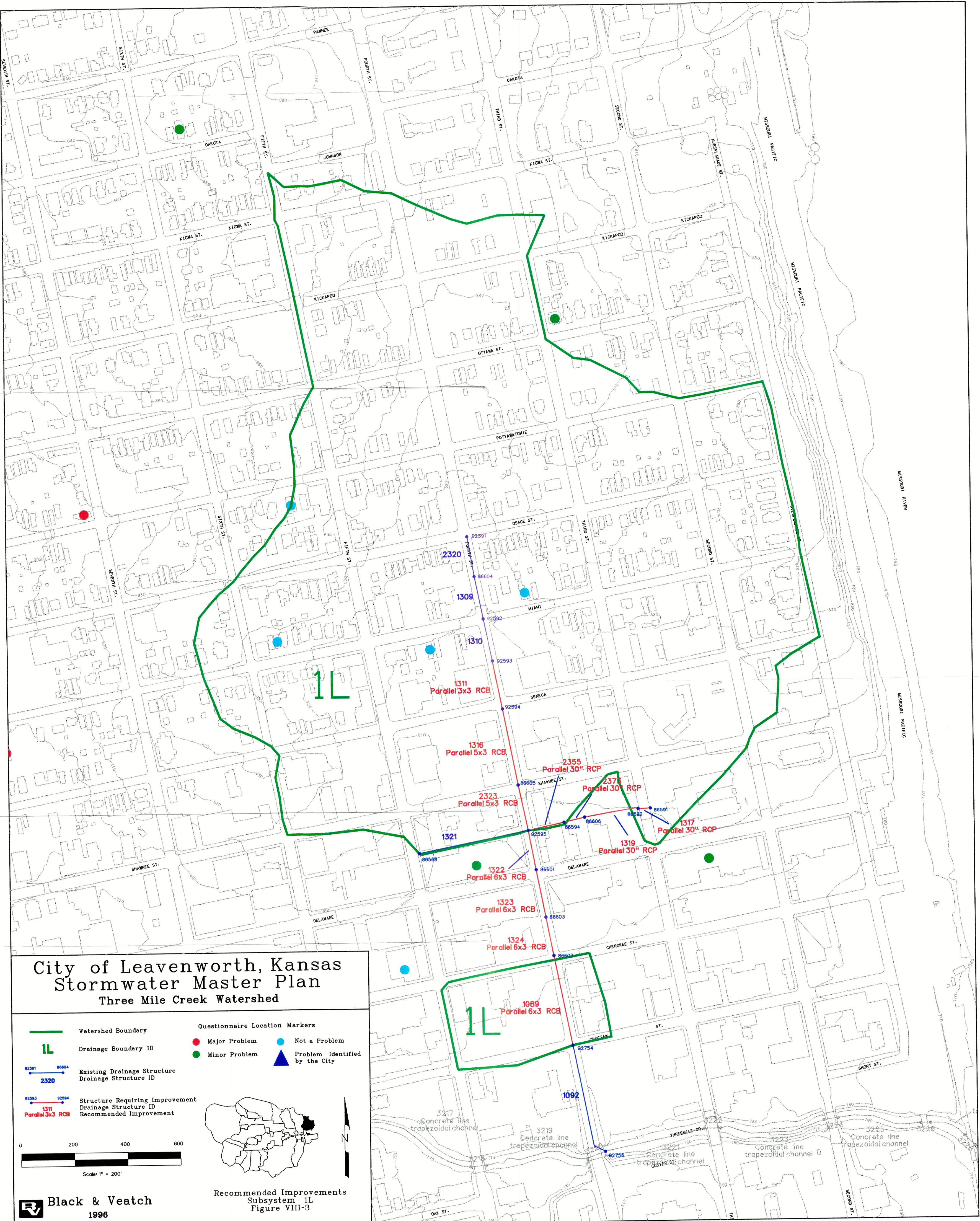


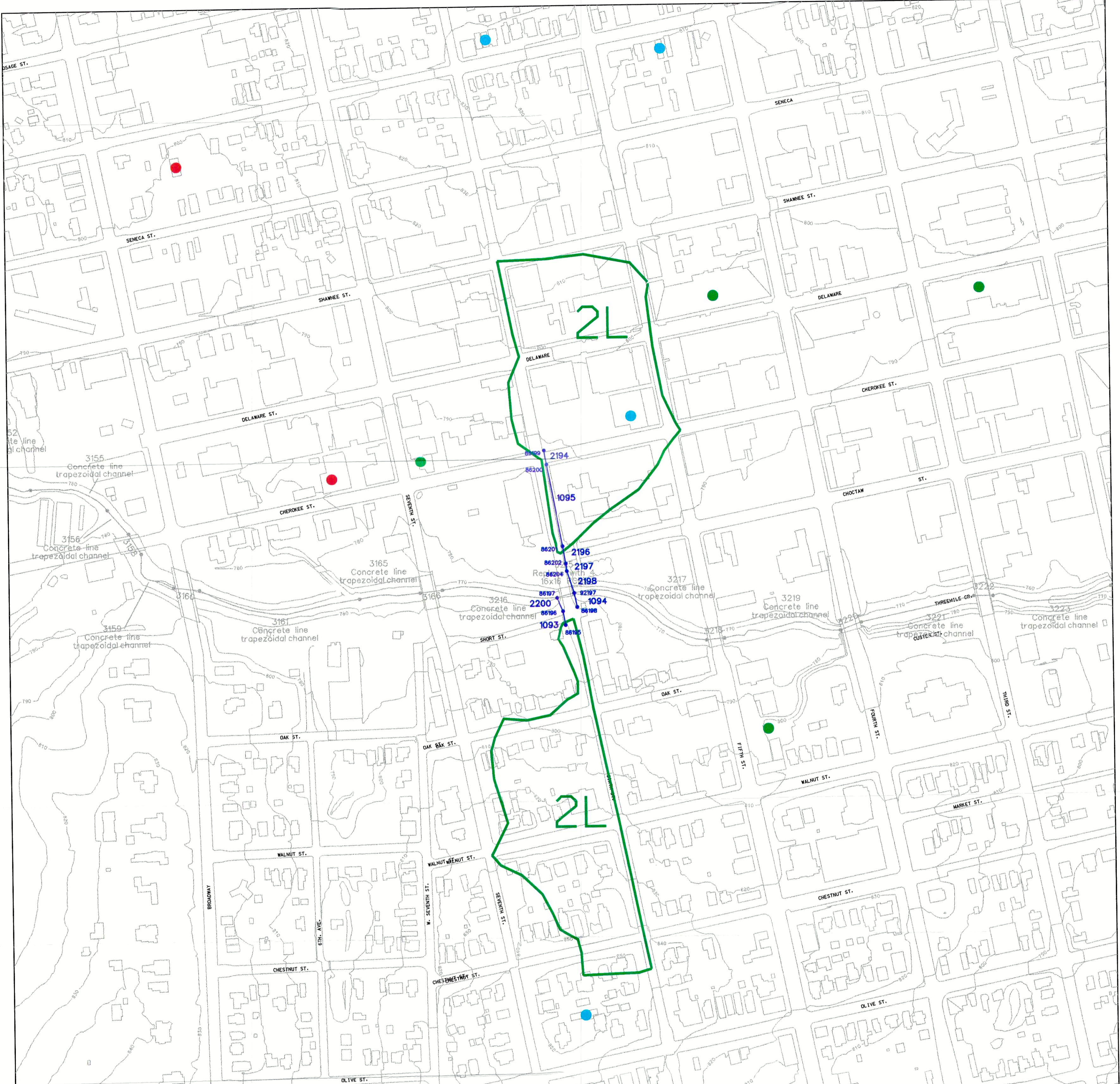
# City of Leavenworth, Kansas Stormwater Master Plan Three Mile Creek Watershed

-  Watershed Boundary
-  Drainage Boundary ID
-  Existing Drainage Structure  
Drainage Structure ID
-  Structure Requiring Improvement  
Drainage Structure ID
-  Recommended Improvement
-  Major Problem
-  Minor Problem
-  Not a Problem
-  Problem Identified by the City



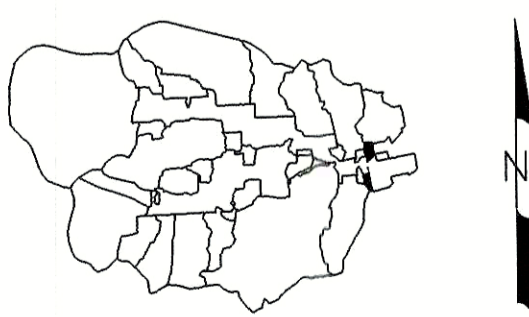
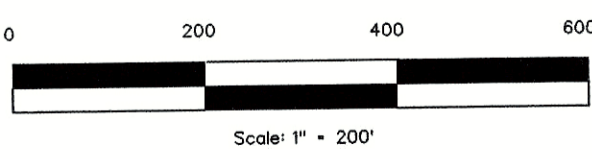
Recommended Improvements  
Subsystem 1L  
Figure VIII-3












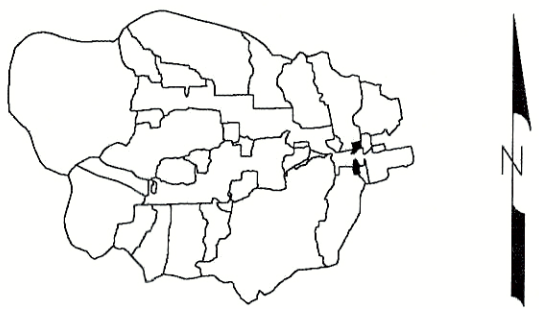
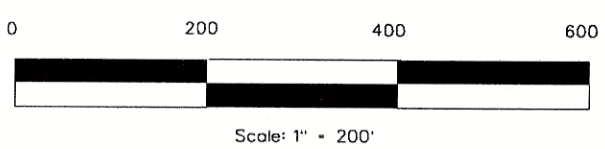
# City of Leavenworth, Kansas Stormwater Master Plan Three Mile Creek Watershed

- |  |   |  |               |  |                                |
|--|---|--|---------------|--|--------------------------------|
|  | Watershed Boundary  |  | Major Problem |  | Not a Problem                  |
|  | Drainage Boundary ID  |  | Minor Problem |  | Problem Identified by the City |
|  | Existing Drainage Structure<br>Drainage Structure ID                                |  |               |  |                                |
|  | Structure Requiring Improvement<br>Drainage Structure ID<br>Recommended Improvement |  |               |  |                                |

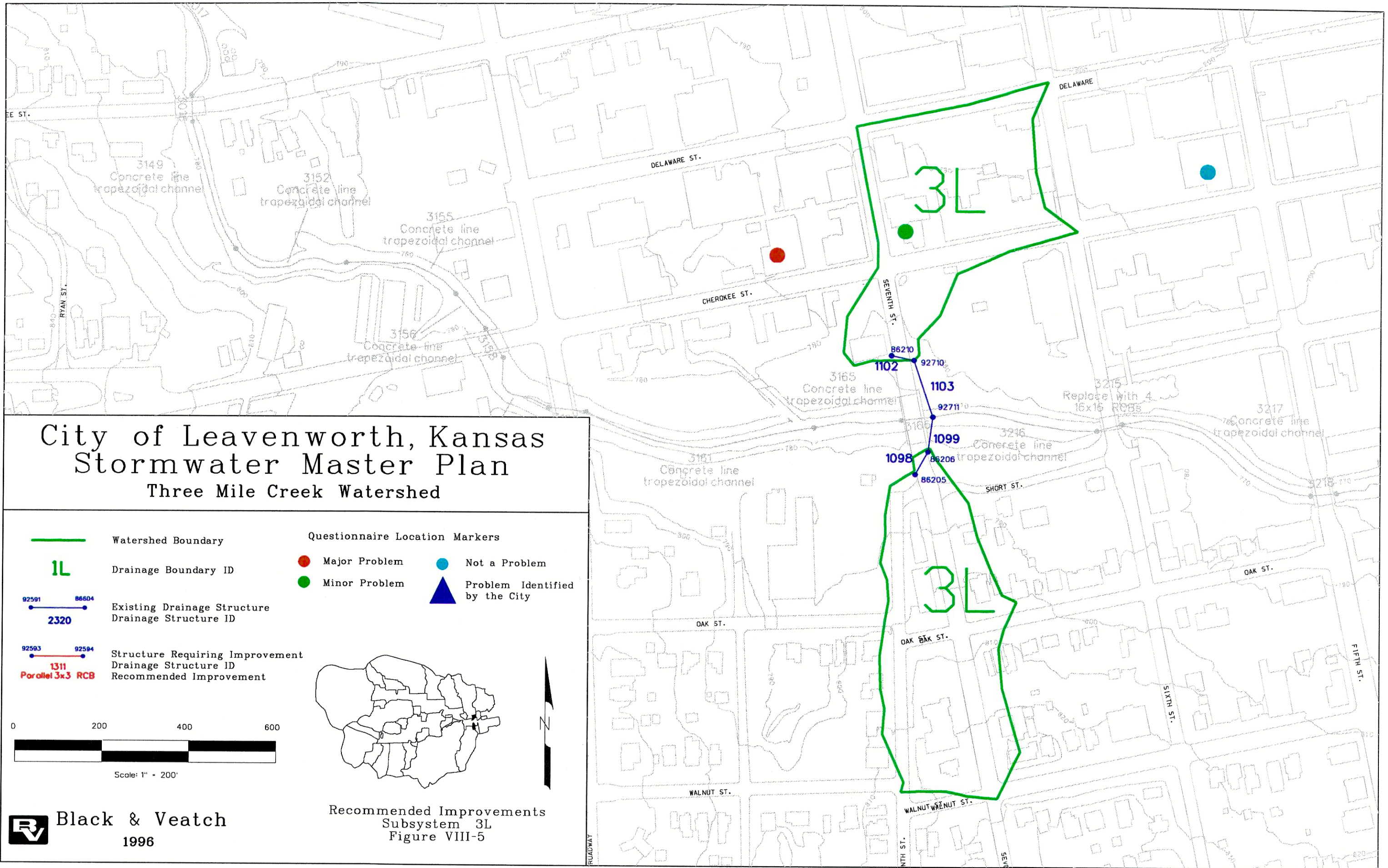


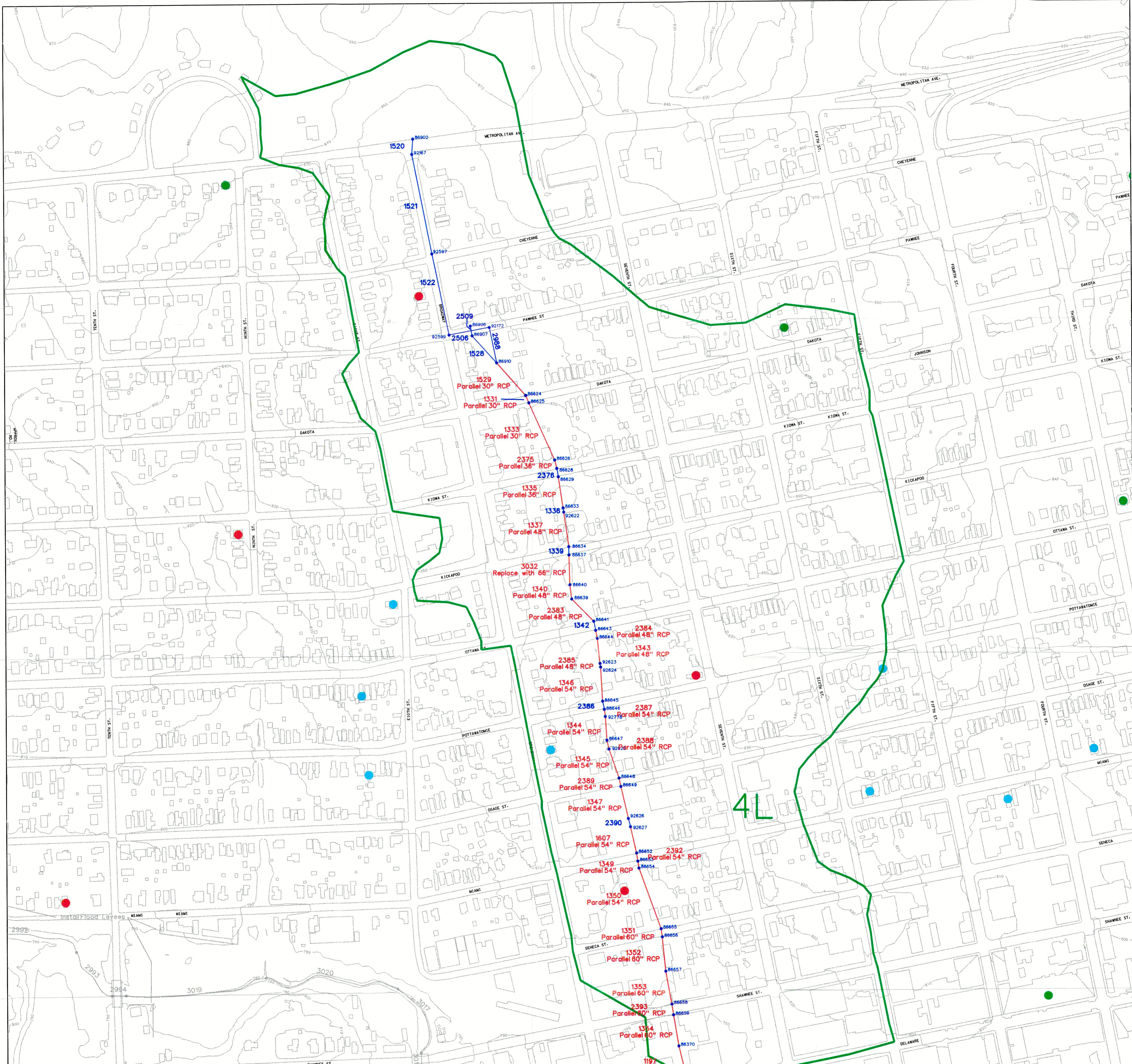
# City of Leavenworth, Kansas Stormwater Master Plan Three Mile Creek Watershed

- |   |   |   |                                |
|---|---|---|--------------------------------|
|  | Watershed Boundary  | <b>Questionnaire Location Markers</b>   |                                |
|  | Drainage Boundary ID  |    | Major Problem                  |
|  | Existing Drainage Structure<br>Drainage Structure ID                                |    | Minor Problem                  |
|  | Structure Requiring Improvement<br>Drainage Structure ID<br>Recommended Improvement |  | Problem Identified by the City |



Recommended Improvements  
Subsystem 3L  
Figure VIII-5



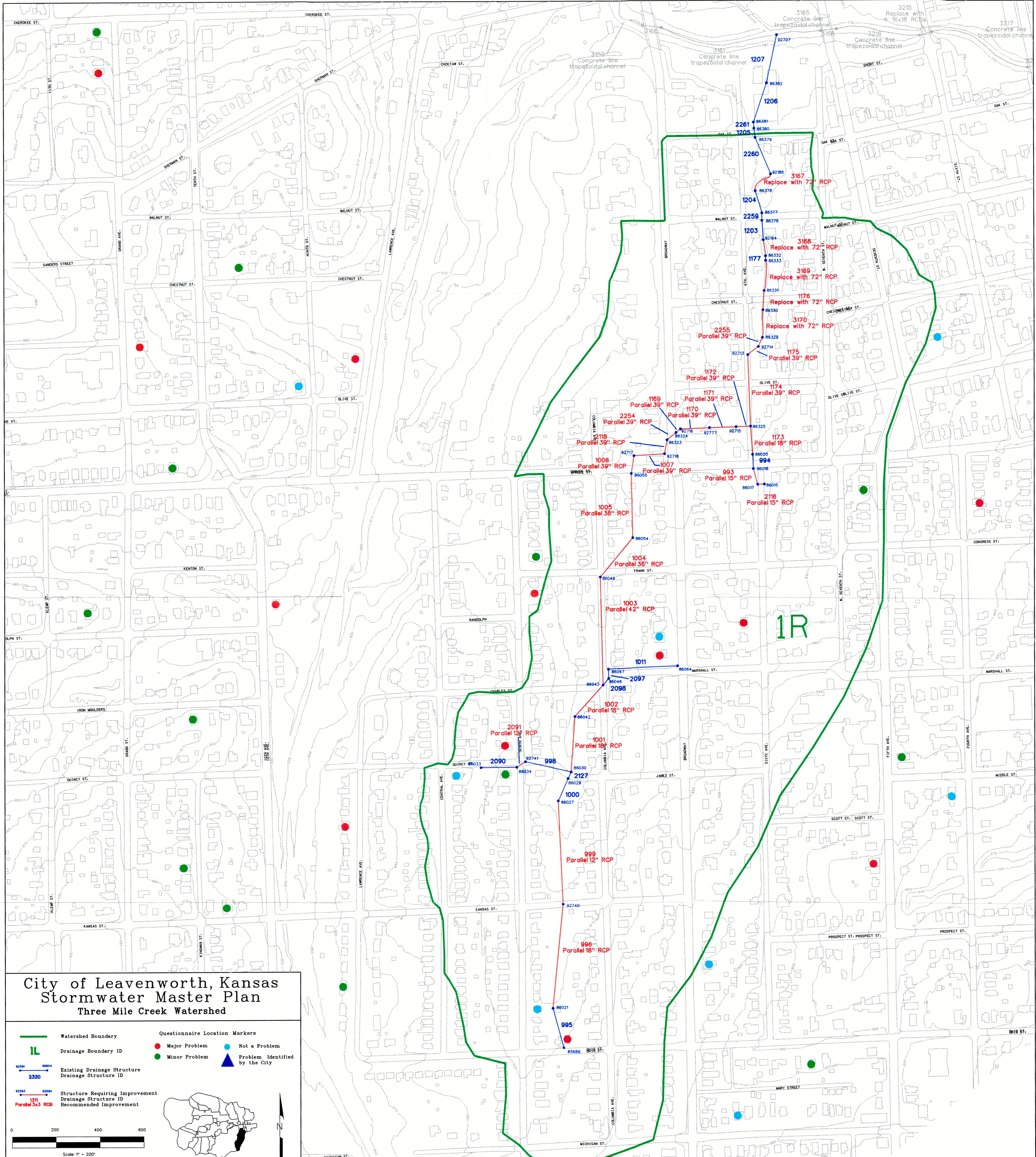


**City of Leavenworth, Kansas  
Stormwater Master Plan  
Three Mile Creek Watershed**

Watershed Boundary	Questionnaire Location Markers
Drainage Boundary ID	Major Problem
Existing Drainage Structure Drainage Structure ID	Not a Problem
Structure Requiring Improvement Drainage Structure ID	Minor Problem
Recommended Improvement	Problem Identified by the City

Scale 1" = 200'

Recommended Improvements  
Subsystem 4L  
Figure VIII-6



**City of Leavenworth, Kansas  
Stormwater Master Plan  
Three Mile Creek Watershed**

Watershed Boundary	Questionnaire Location Markers Major Problem
Drainage Boundary ID	Not a Problem
Existing Drainage Structure Drainage Structure ID	Minor Problem
Structure Requiring Improvement Drainage Structure ID	Problem Identified by the City

Scale: 1" = 200'

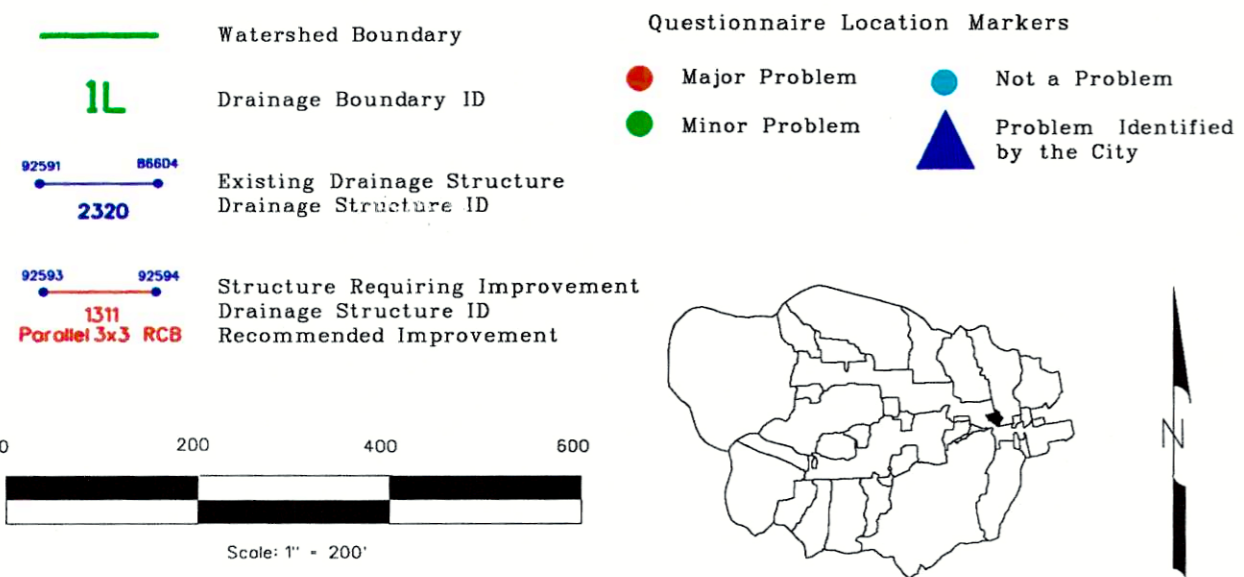
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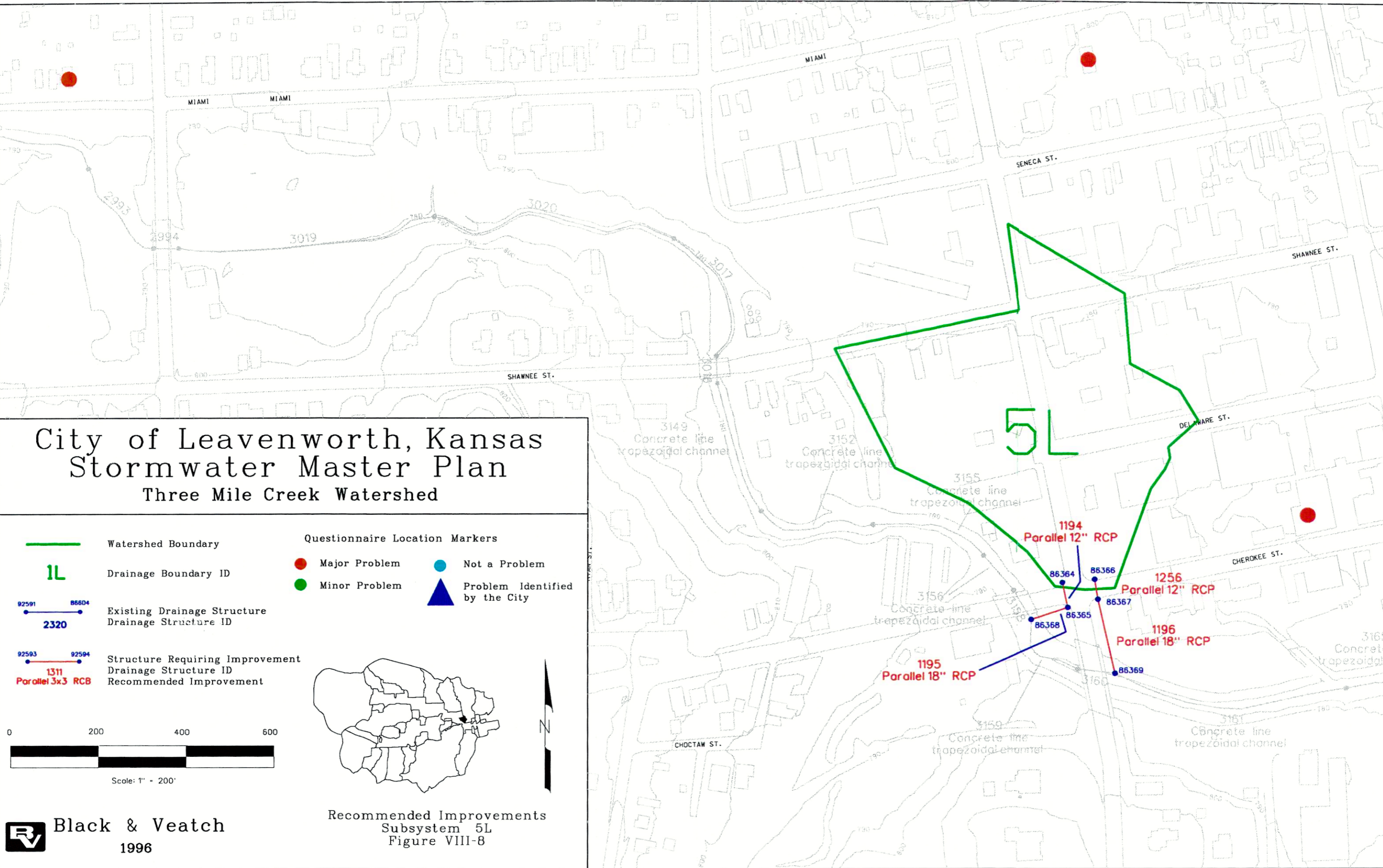
Recommended Improvements  
Subsystem 1R  
Figure VIII-7



# City of Leavenworth, Kansas Stormwater Master Plan Three Mile Creek Watershed



Recommended Improvements  
Subsystem 5L  
Figure VIII-8



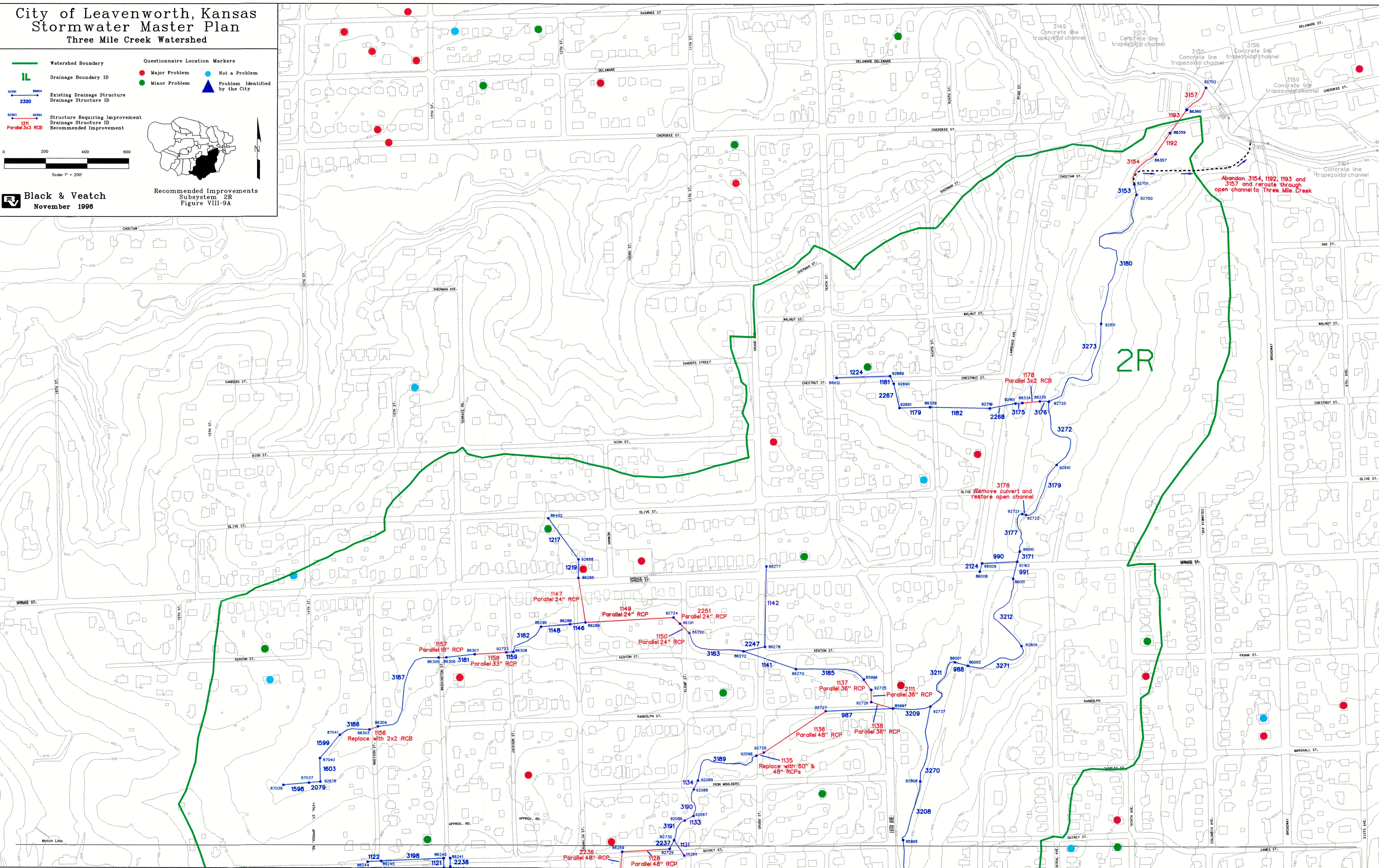
# City of Leavenworth, Kansas Stormwater Master Plan Three Mile Creek Watershed

**Watershed Boundary**  
**Drainage Boundary ID**  
**Existing Drainage Structure Drainage Structure ID**  
**Structure Requiring Improvement Drainage Structure ID**  
**Recommended Improvement**

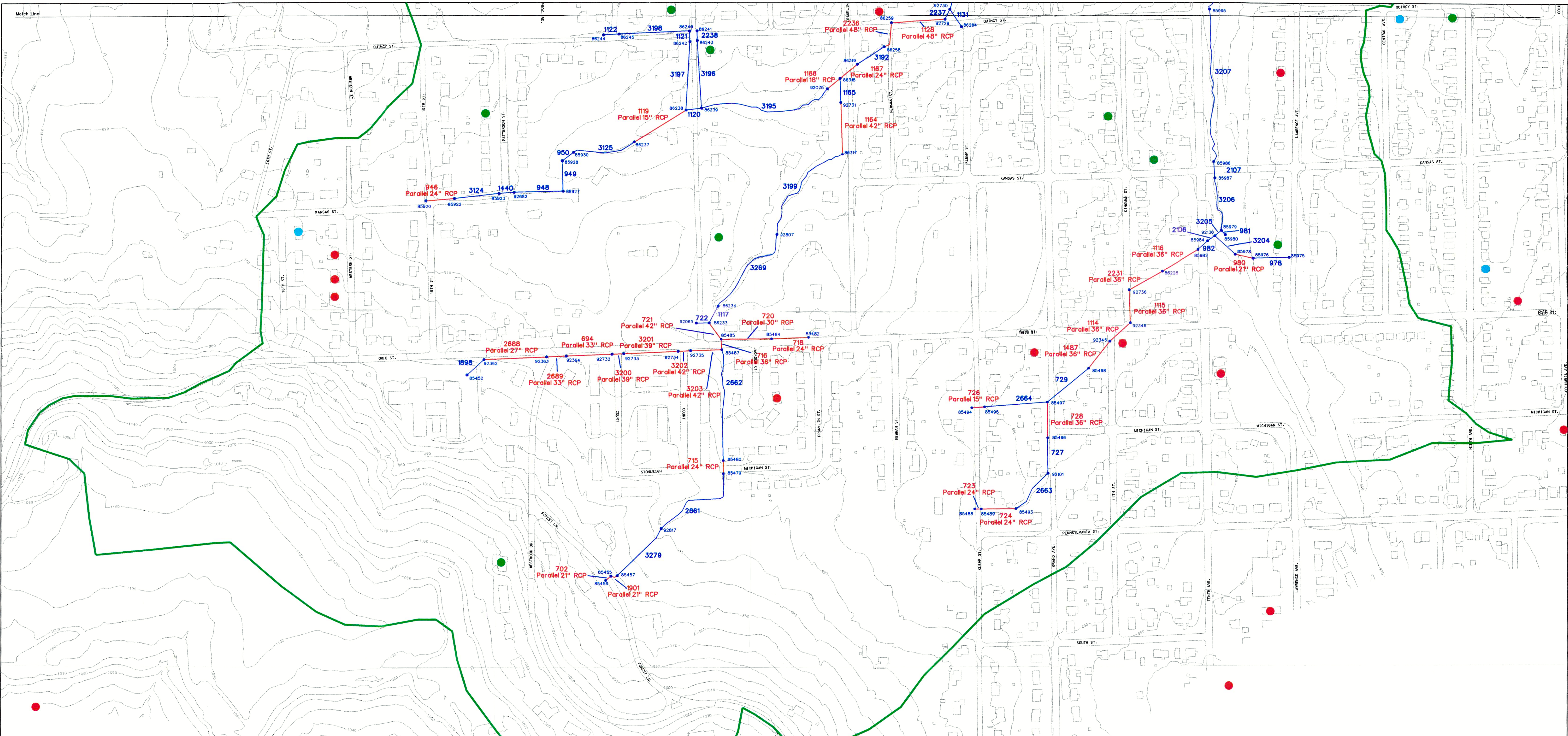
**Questionnaire Location Markers**  
**Major Problem**  
**Minor Problem**  
**Not a Problem**  
**Problem Identified by the City**

**Scale: 1" = 200'**

**Recommended Improvements Subsystem 2R Figure VIII-9A**

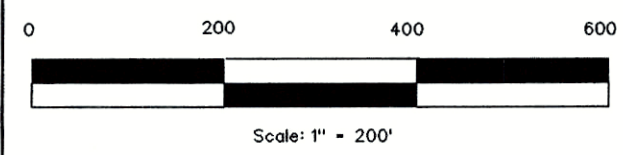


**Black & Veatch**  
November 1998

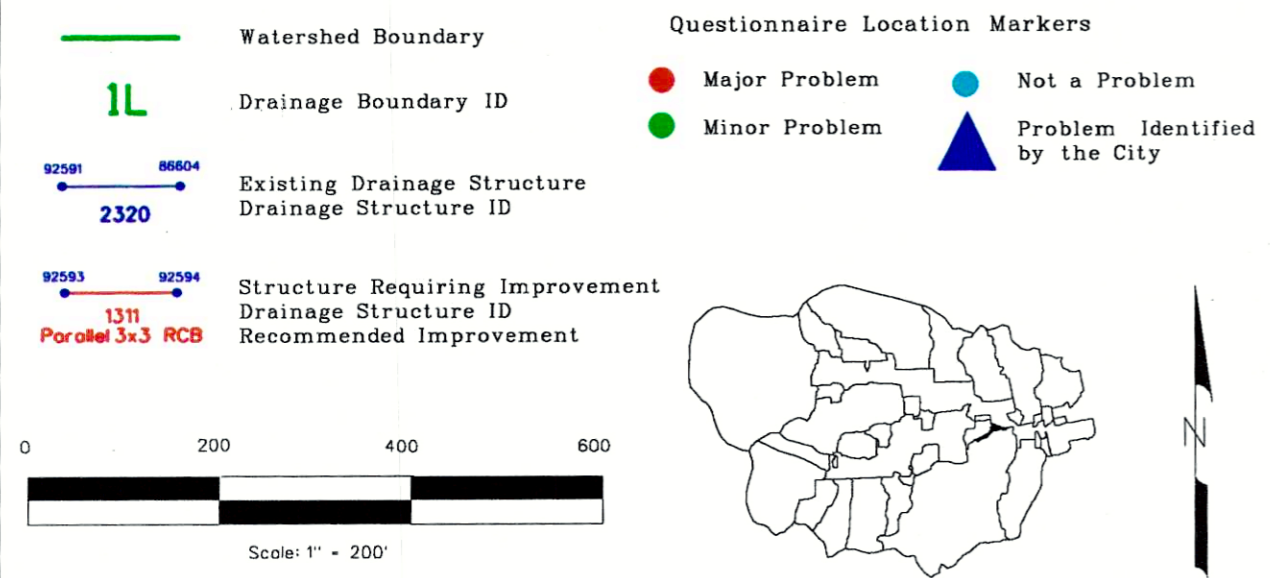


### City of Leavenworth, Kansas Stormwater Master Plan Three Mile Creek Watershed

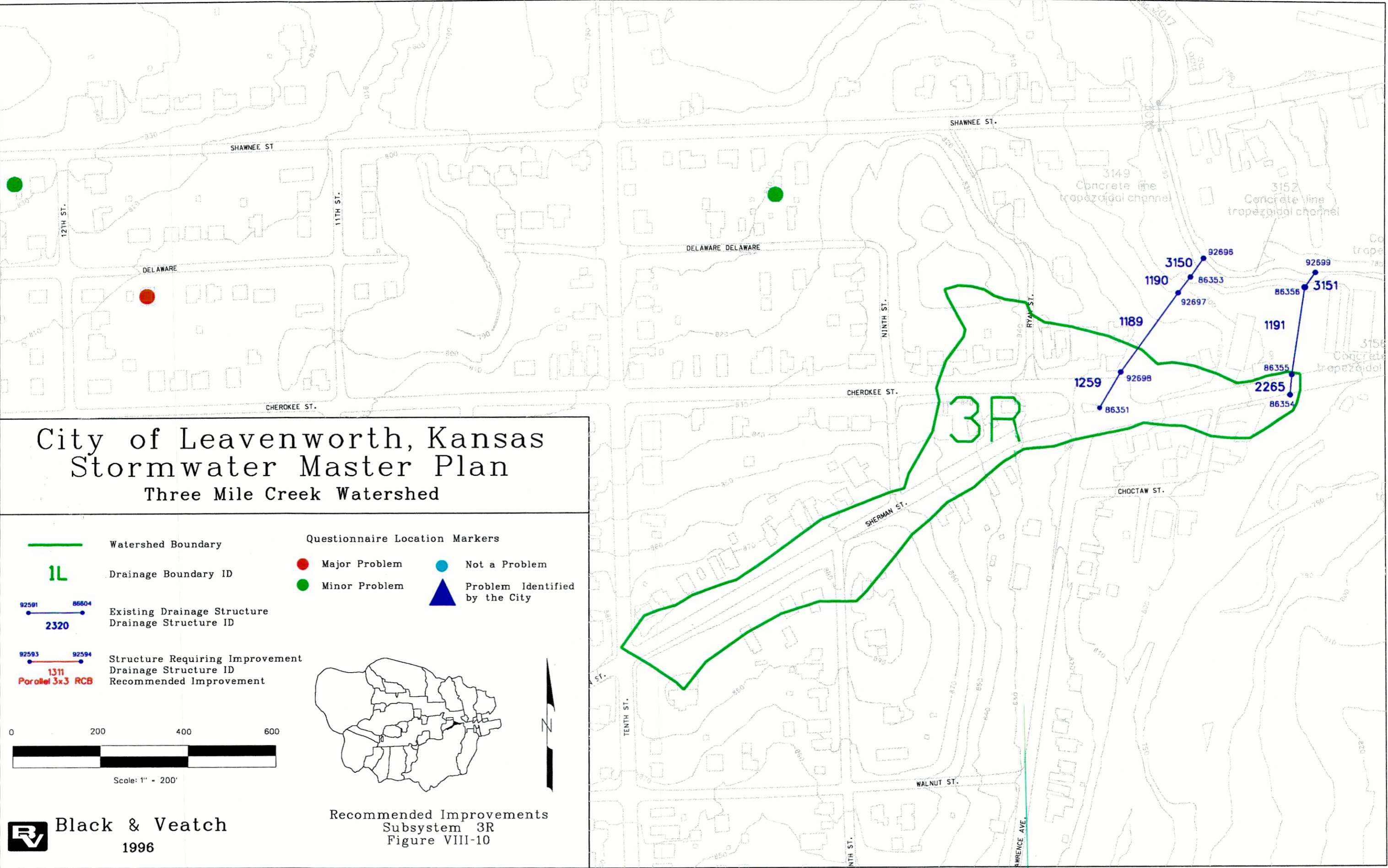
- |  |                                |
|--|--------------------------------|
| Watershed Boundary                                       | Questionnaire Location Markers |
| Drainage Boundary ID                                     | Not a Problem                  |
| Existing Drainage Structure<br>Drainage Structure ID     | Major Problem                  |
| Structure Requiring Improvement<br>Drainage Structure ID | Minor Problem                  |
| Recommended Improvement                                  | Problem Identified by the City |

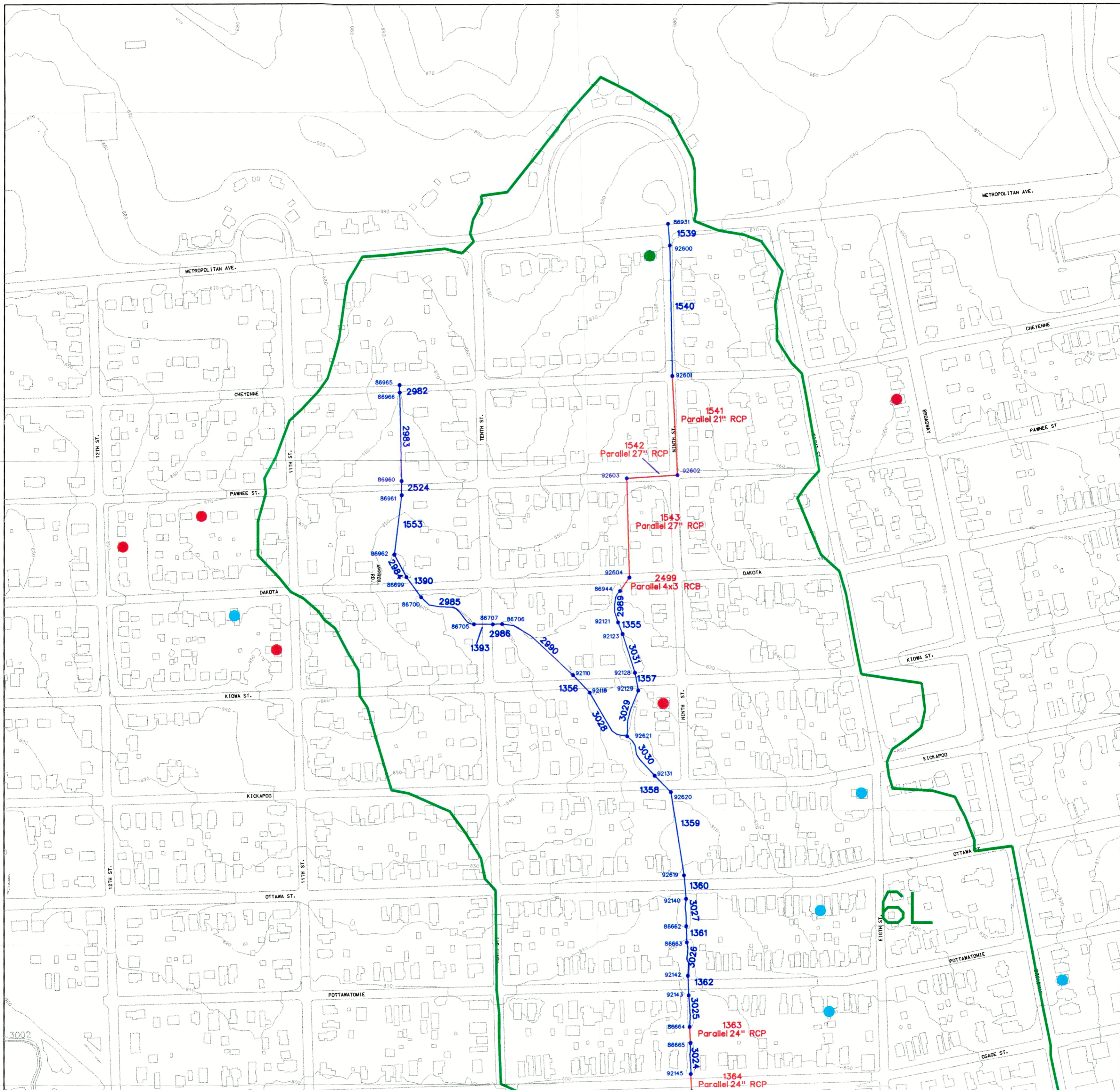


# City of Leavenworth, Kansas Stormwater Master Plan Three Mile Creek Watershed



Recommended Improvements  
Subsystem 3R  
Figure VIII-10













**City of Leavenworth, Kansas  
Stormwater Master Plan  
Three Mile Creek Watershed**

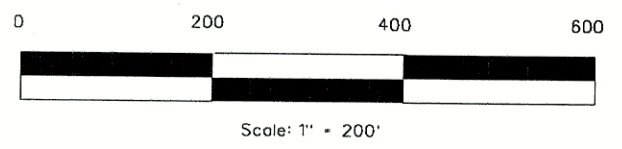
Watershed Boundary	Major Problem	Not a Problem
Drainage Boundary ID	Minor Problem	Problem Identified by the City
Existing Drainage Structure Drainage Structure ID		
Structure Requiring Improvement Drainage Structure ID Recommended Improvement		

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Scale: 1" = 200'

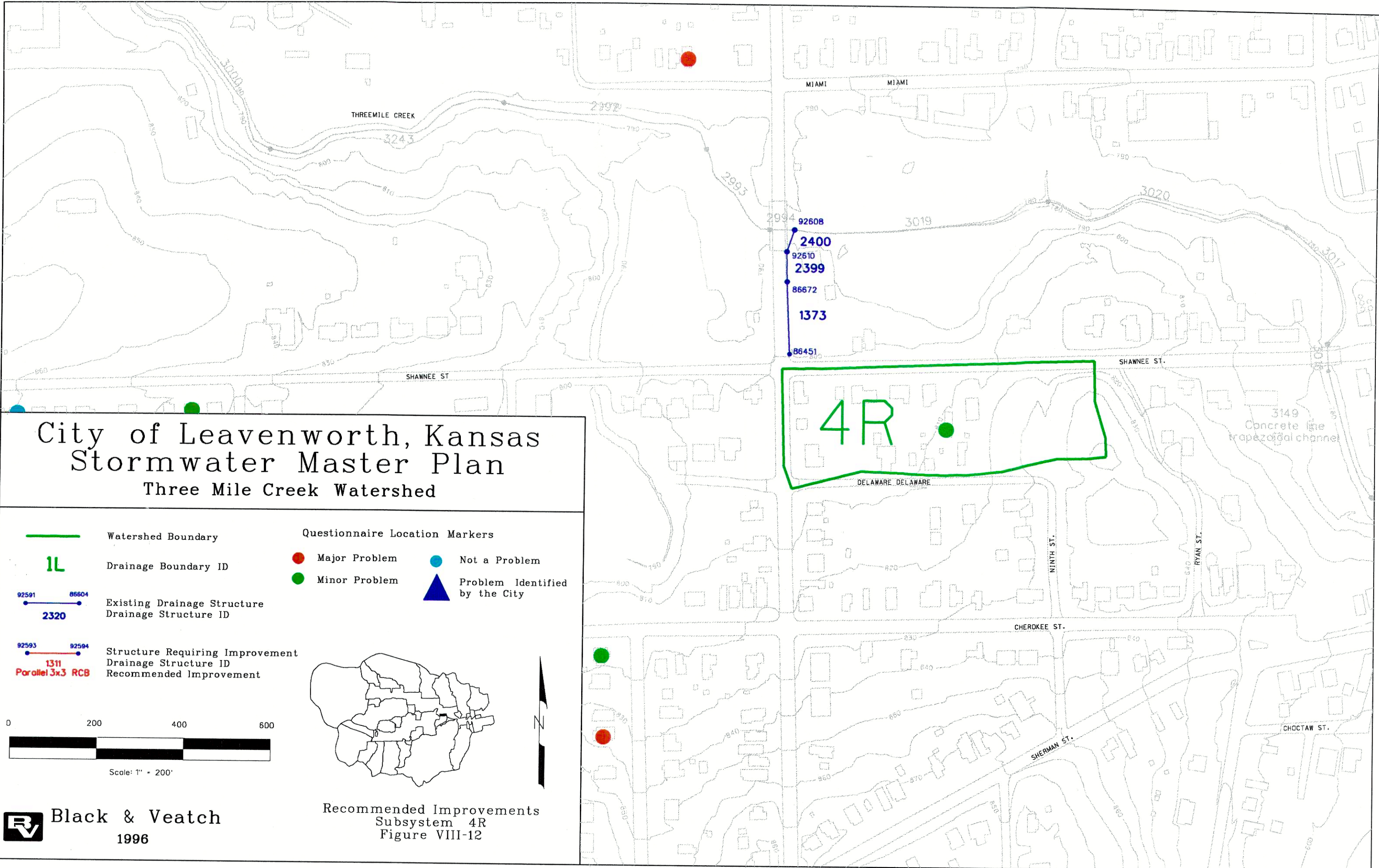
Recommended Improvements  
Subsystem 6L  
Figure VIII-11

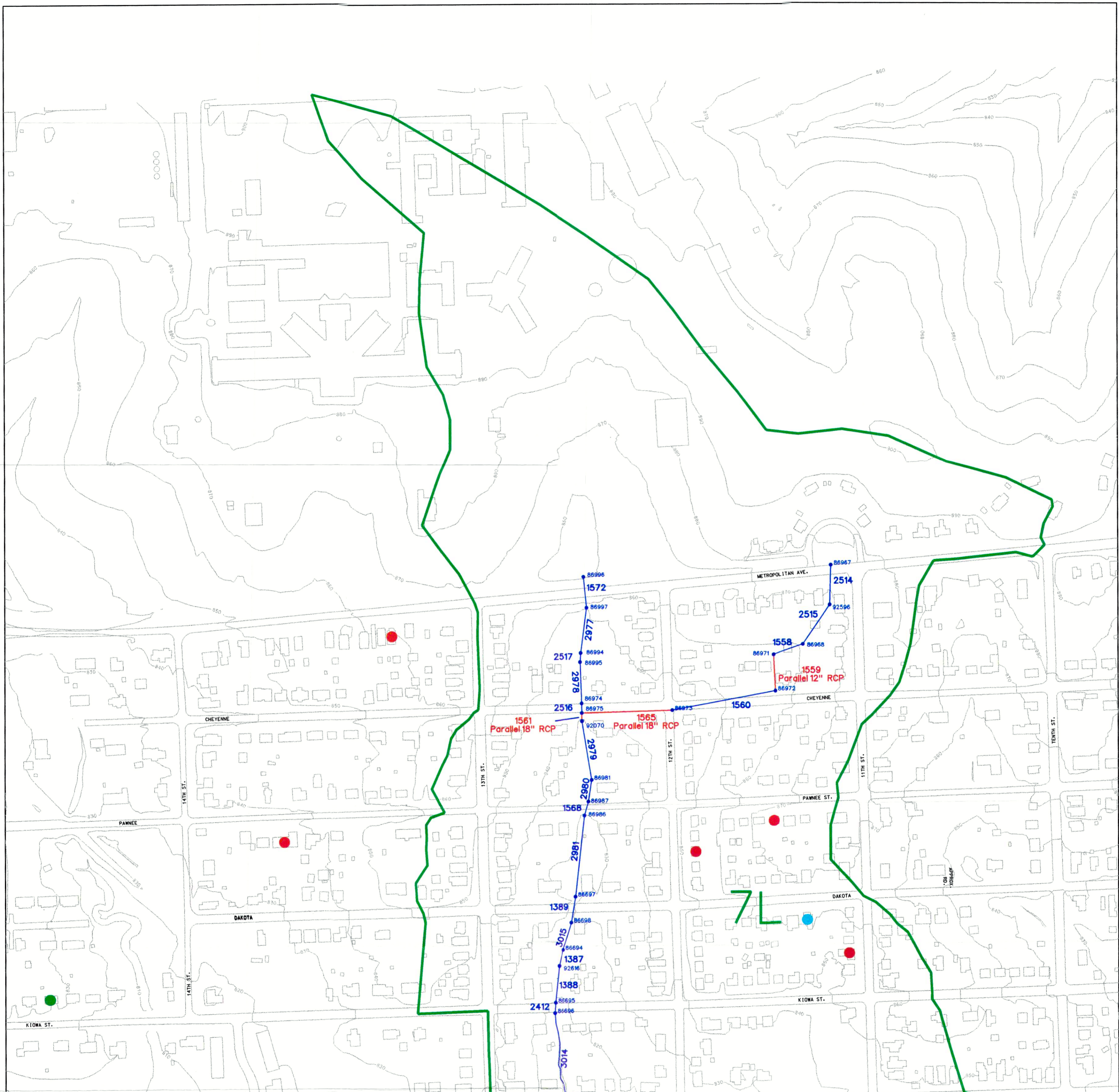
# City of Leavenworth, Kansas Stormwater Master Plan Three Mile Creek Watershed

- |   |   |   |               |  |                                |
|---|---|---|---------------|--|--------------------------------|
|  | Watershed Boundary  |  | Major Problem |  | Not a Problem                  |
|  | Drainage Boundary ID  |  | Minor Problem |  | Problem Identified by the City |
|  | Existing Drainage Structure<br>Drainage Structure ID                                |   |               |  |                                |
|  | Structure Requiring Improvement<br>Drainage Structure ID<br>Recommended Improvement |   |               |  |                                |



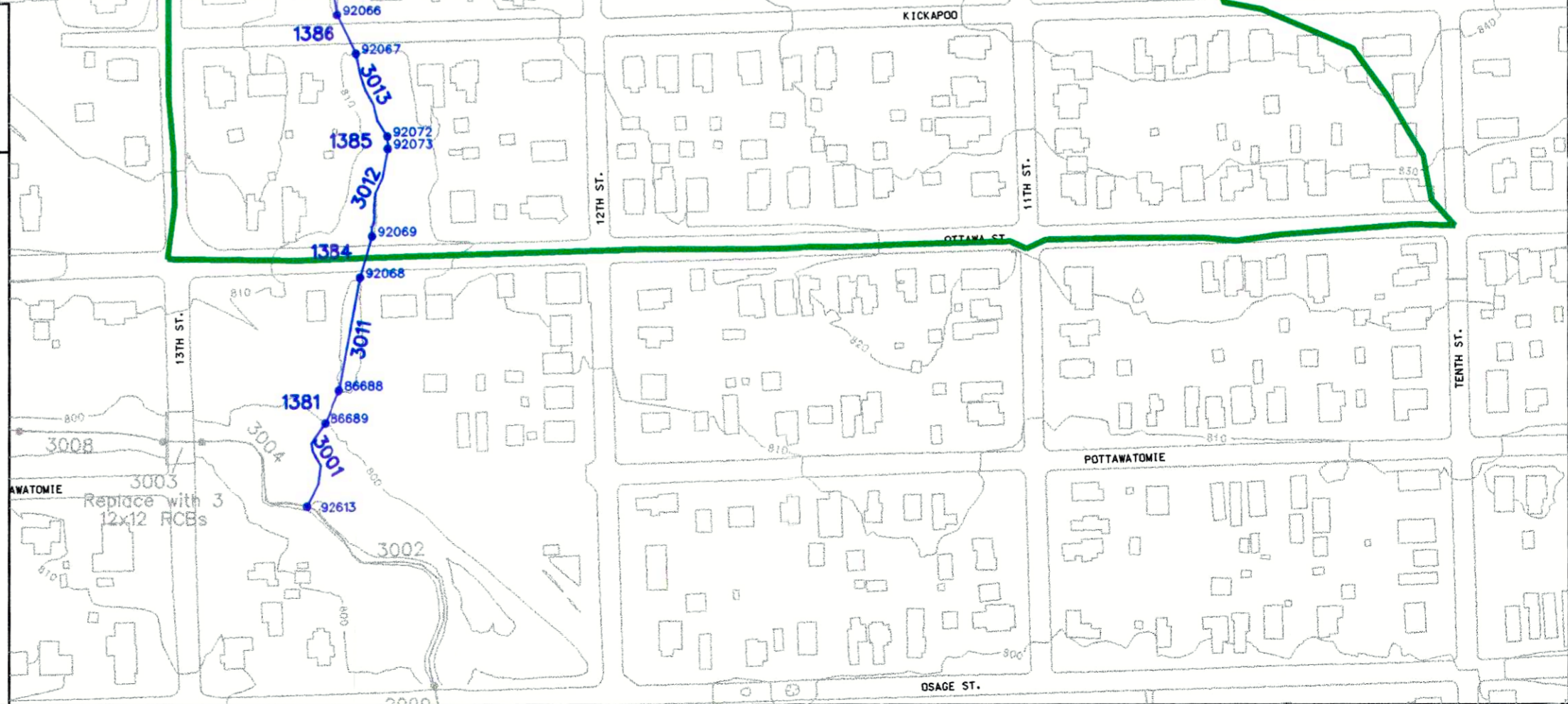
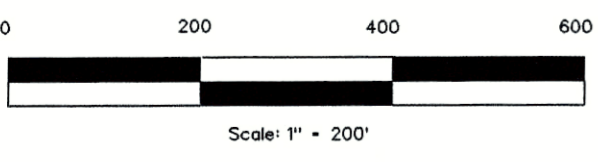
Recommended Improvements  
Subsystem 4R  
Figure VIII-12

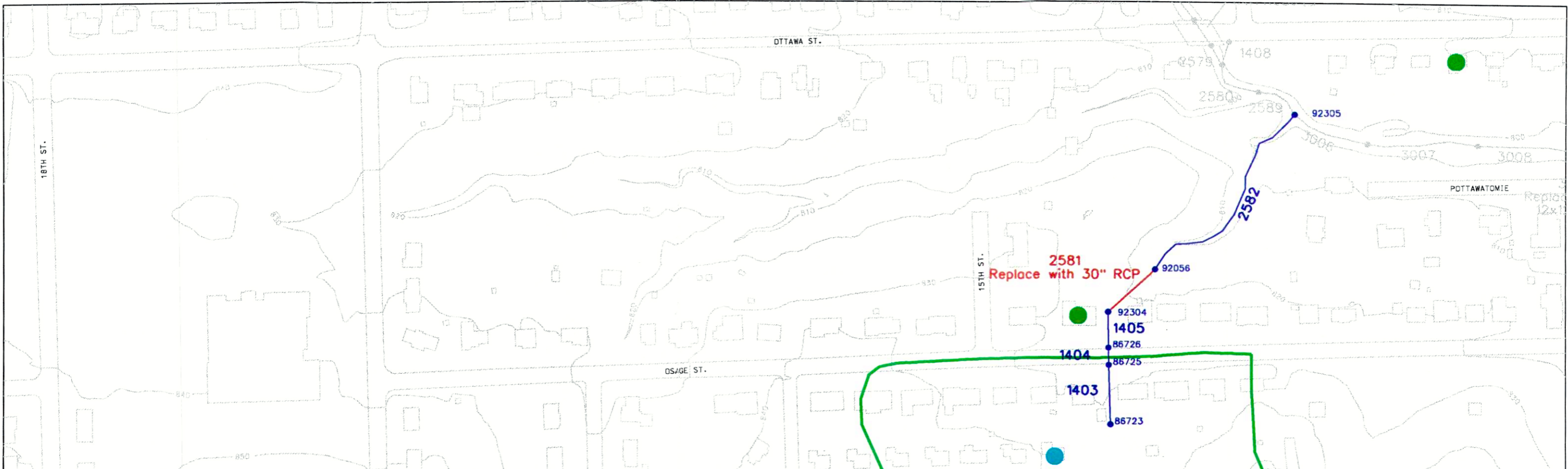




### City of Leavenworth, Kansas Stormwater Master Plan Three Mile Creek Watershed

	Watershed Boundary		Major Problem		Not a Problem
	Drainage Boundary ID		Minor Problem		Problem Identified by the City
	Existing Drainage Structure Drainage Structure ID				
	Structure Requiring Improvement Drainage Structure ID Recommended Improvement				





# City of Leavenworth, Kansas Stormwater Master Plan Three Mile Creek Watershed

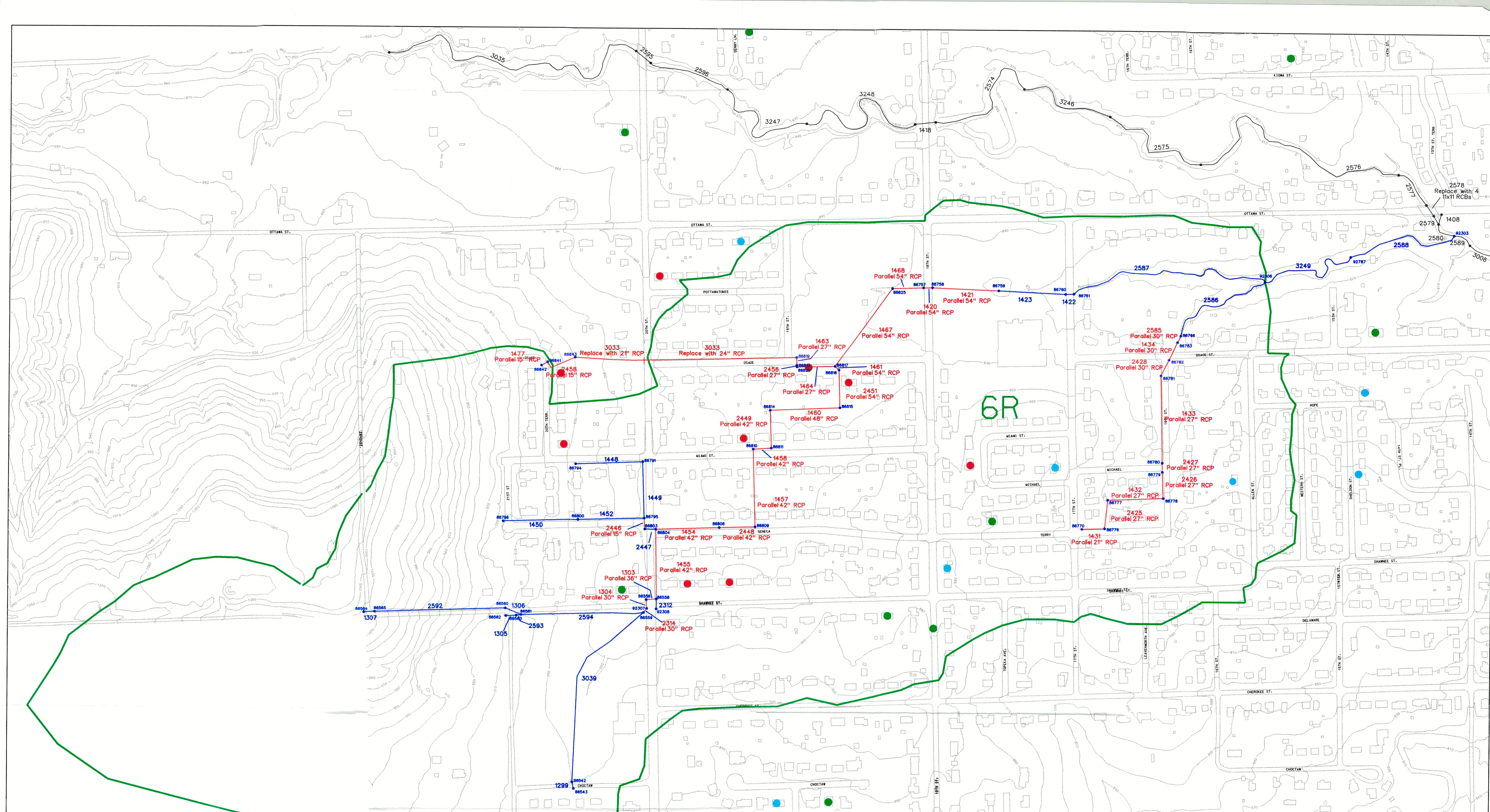
	Watershed Boundary		Major Problem		Not a Problem
	Drainage Boundary ID		Minor Problem		Problem Identified by the City
	Existing Drainage Structure Drainage Structure ID <b>2320</b>				
	Structure Requiring Improvement Drainage Structure ID <b>1311</b> Parallel 3x3 RCB				

0 200 400 600  
Scale: 1" = 200'

Recommended Improvements  
Subsystem 5R  
Figure VIII-14

5R



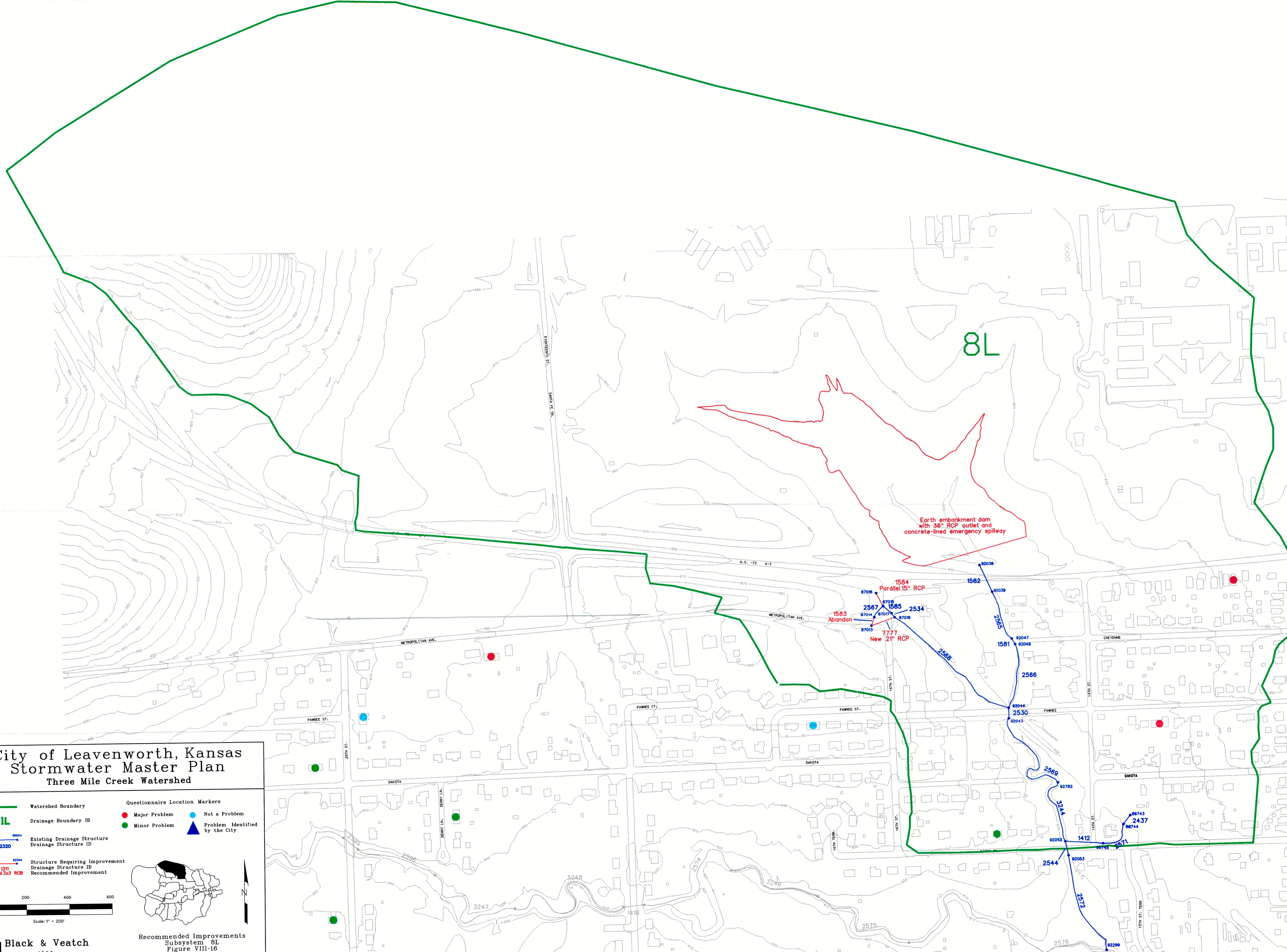


### City of Leavenworth, Kansas Stormwater Master Plan Three Mile Creek Watershed

<ul style="list-style-type: none"> <li><span style="color: green; font-weight: bold;">—</span> Watershed Boundary</li> <li><span style="color: blue; font-weight: bold;">IL</span> Drainage Boundary ID</li> <li><span style="color: blue; font-weight: bold;">82081</span> <span style="color: blue; font-weight: bold;">2320</span> Existing Drainage Structure Drainage Structure ID</li> <li><span style="color: red; font-weight: bold;">82083</span> <span style="color: red; font-weight: bold;">1311</span> <span style="color: red; font-weight: bold;">Parallel 3x3 RCP</span> Structure Requiring Improvement Drainage Structure ID Recommended Improvement</li> </ul>	<p>Questionnaire Location Markers</p> <ul style="list-style-type: none"> <li><span style="color: red; font-size: 1.2em;">●</span> Major Problem</li> <li><span style="color: green; font-size: 1.2em;">●</span> Minor Problem</li> <li><span style="color: blue; font-size: 1.2em;">●</span> Not a Problem</li> <li><span style="color: blue; font-size: 1.2em;">▲</span> Problem Identified by the City</li> </ul> <div style="text-align: center;"> <p>Scale: 1" = 200'</p> </div> <div style="text-align: center;"> </div>
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Black & Veatch  
November 1996

Recommended Improvements  
Subsystem 6R  
Figure VIII-15



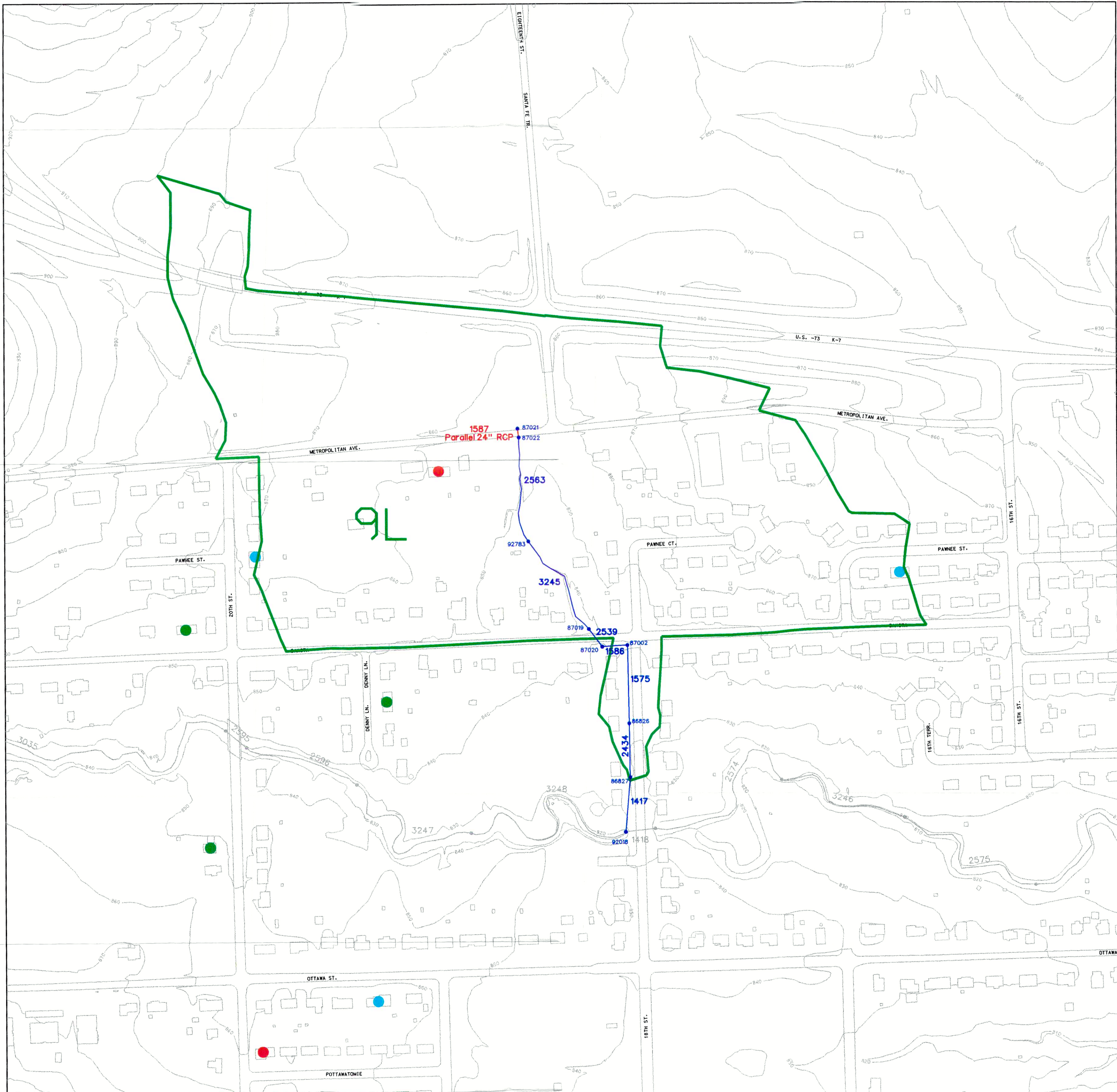
### City of Leavenworth, Kansas Stormwater Master Plan Three Mile Creek Watershed

Watershed Boundary	Major Problem	Not a Problem
Drainage Boundary ID	Minor Problem	Problem Identified by the City
Existing Drainage Structure Drainage Structure ID		
Structure Requiring Improvement Drainage Structure ID Recommended Improvement		









Questionnaire Location Markers

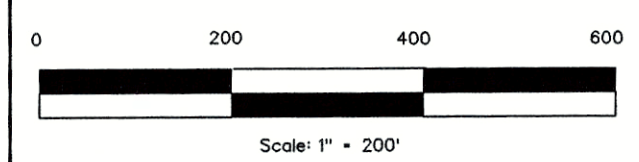
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Recommended Improvements  
Subsystem 8L  
Figure VIII-16

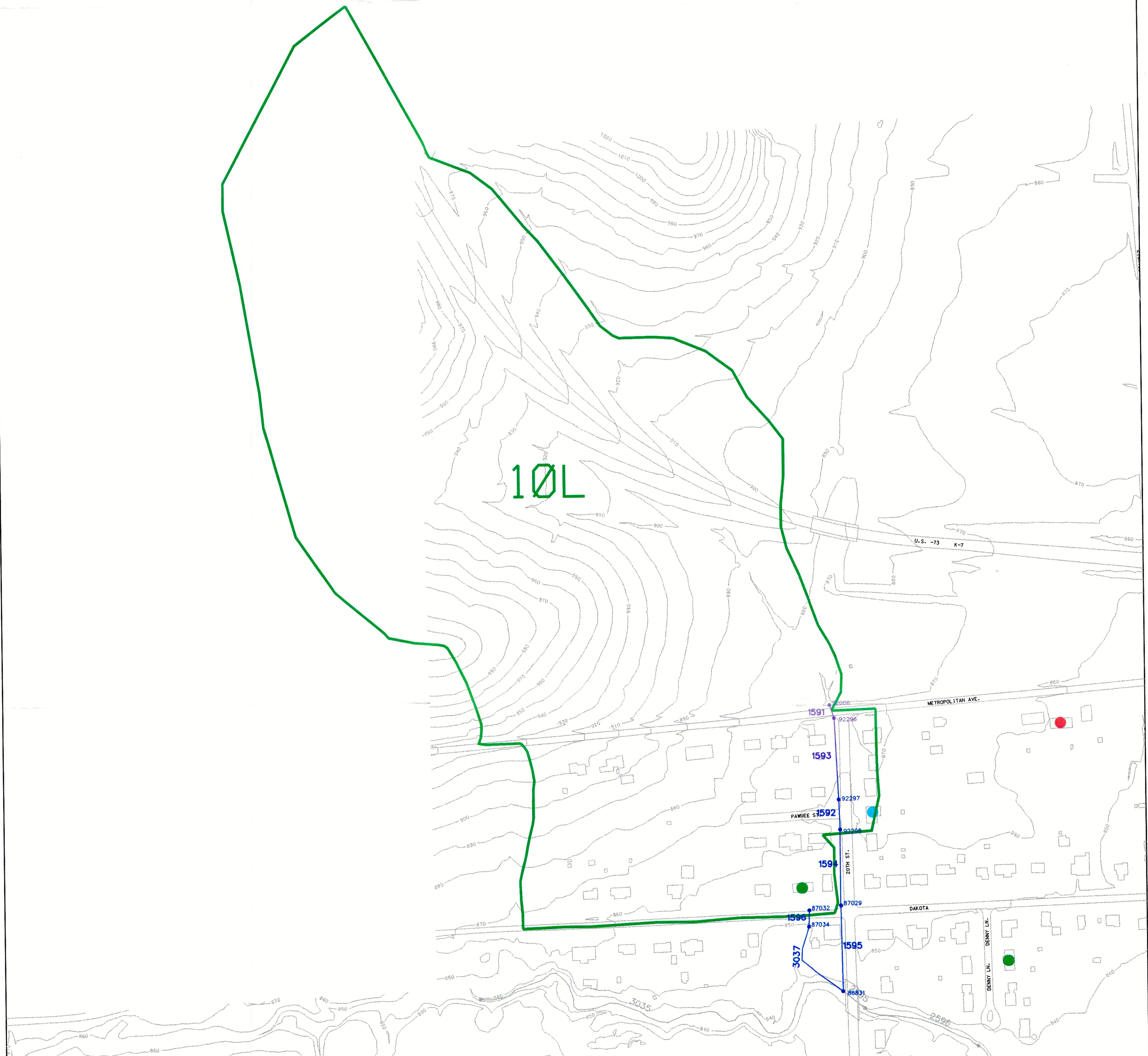


# City of Leavenworth, Kansas Stormwater Master Plan Three Mile Creek Watershed









	Watershed Boundary		Major Problem		Not a Problem
	Drainage Boundary ID		Minor Problem		Problem Identified by the City
	Existing Drainage Structure Drainage Structure ID				
	Structure Requiring Improvement Drainage Structure ID Recommended Improvement				

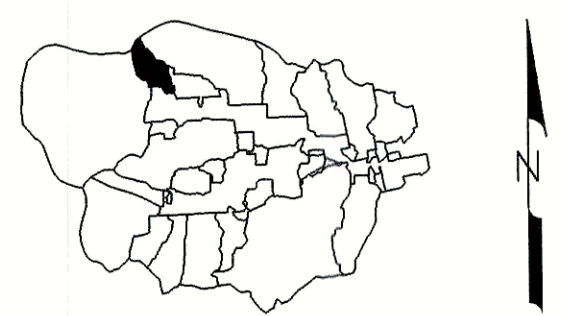
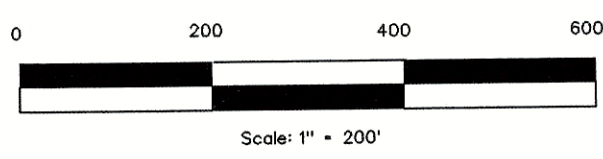


Recommended Improvements  
Subsystem 9L  
Figure VIII-17











## City of Leavenworth, Kansas Stormwater Master Plan Three Mile Creek Watershed

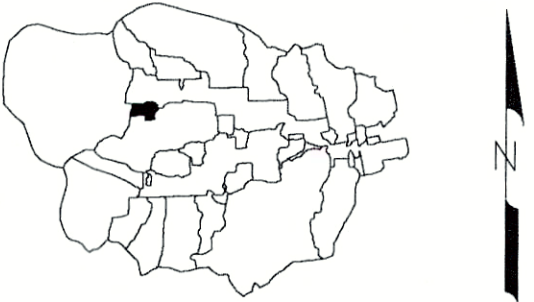
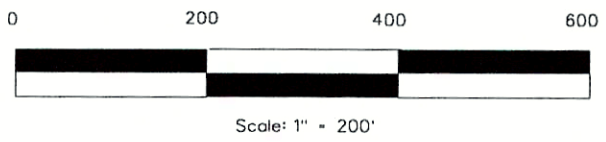
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|---|---|---|---------------|---|--------------------------------|
|  | Watershed Boundary  |  | Major Problem |  | Not a Problem                  |
|  | Drainage Boundary ID  |  | Minor Problem |  | Problem Identified by the City |
|  | Existing Drainage Structure<br>Drainage Structure ID                                |   |               |   |                                |
|  | Structure Requiring Improvement<br>Drainage Structure ID<br>Recommended Improvement |   |               |   |                                |




# City of Leavenworth, Kansas Stormwater Master Plan Three Mile Creek Watershed

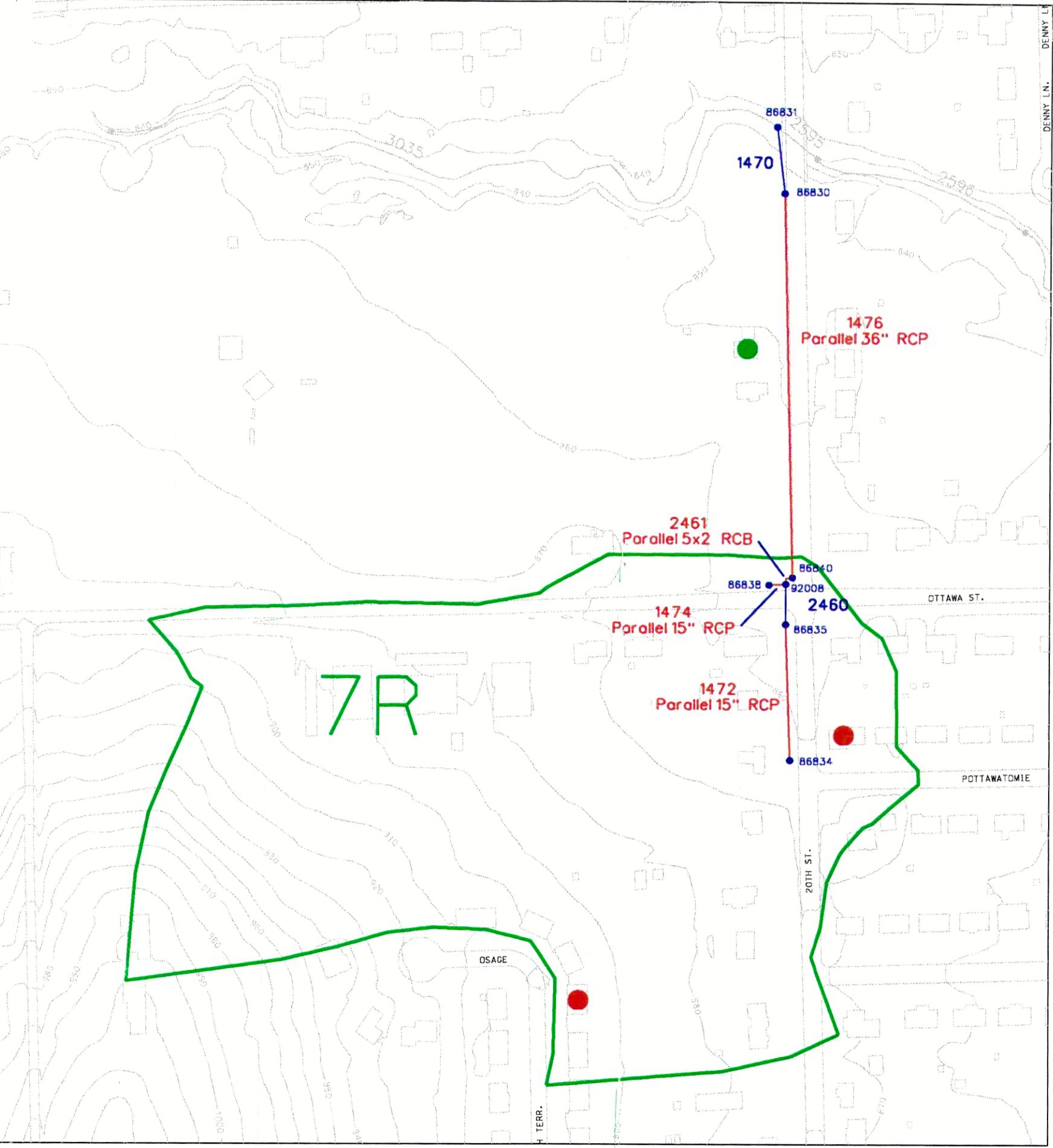
-  Watershed Boundary
-  Drainage Boundary ID
-  Existing Drainage Structure  
Drainage Structure ID
-  Structure Requiring Improvement  
Drainage Structure ID  
Recommended Improvement

- Questionnaire Location Markers
-  Major Problem
  -  Minor Problem
  -  Not a Problem
  -  Problem Identified by the City

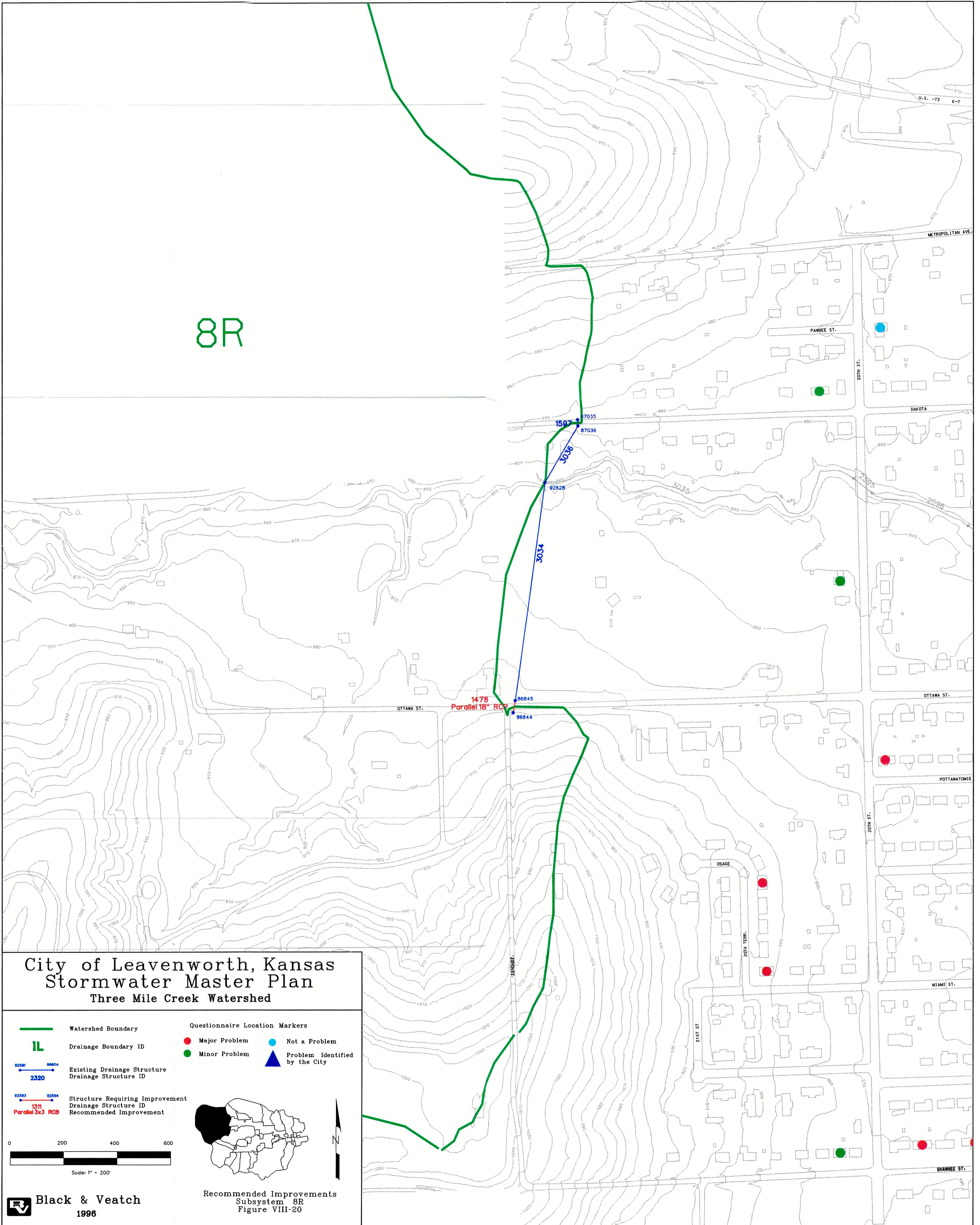


 **Black & Veatch**  
1996







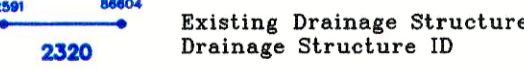
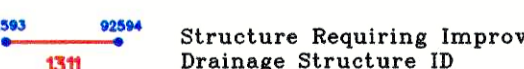
Recommended Improvements  
Subsystem 7R  
Figure VIII-19

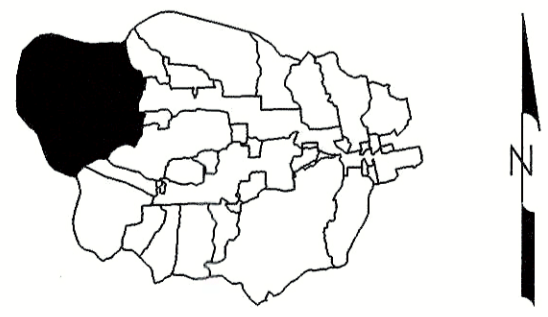
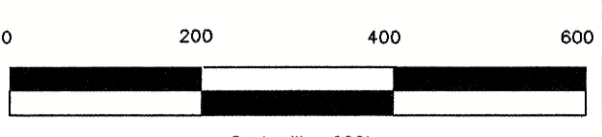


8R











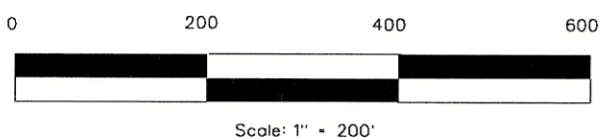
City of Leavenworth, Kansas  
 Stormwater Master Plan  
 Three Mile Creek Watershed

- |   |   |   |               |   |                                |
|---|---|---|---------------|---|--------------------------------|
|  | Watershed Boundary  |  | Major Problem |  | Not a Problem                  |
|  | Drainage Boundary ID  |  | Minor Problem |  | Problem Identified by the City |
|  | Existing Drainage Structure<br>Drainage Structure ID                                |   |               |   |                                |
|  | Structure Requiring Improvement<br>Drainage Structure ID<br>Recommended Improvement |   |               |   |                                |

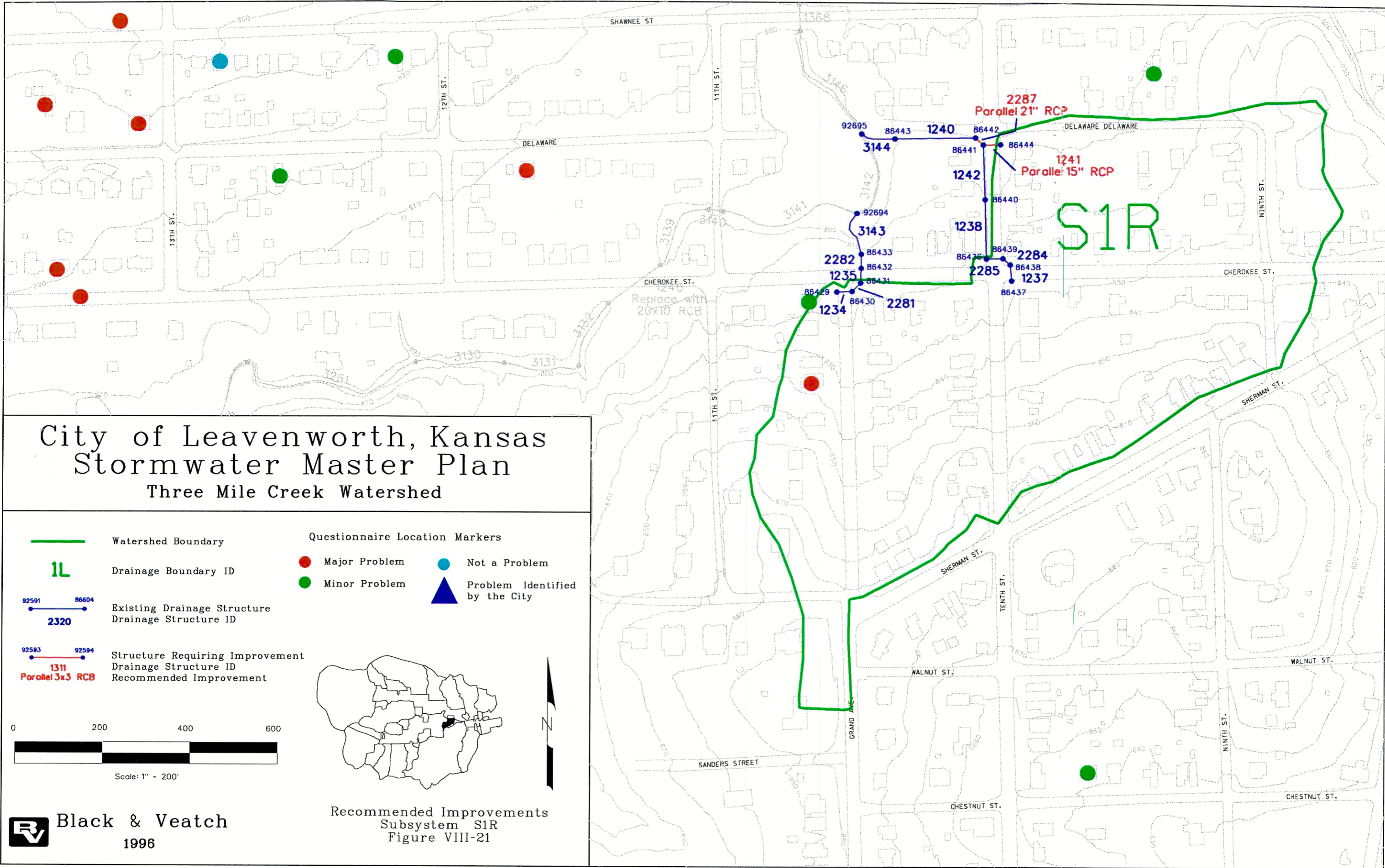


# City of Leavenworth, Kansas Stormwater Master Plan Three Mile Creek Watershed





-  Watershed Boundary
-  Drainage Boundary ID
-  Existing Drainage Structure  
Drainage Structure ID
-  Structure Requiring Improvement  
Drainage Structure ID  
Recommended Improvement
-  Major Problem
-  Minor Problem
-  Not a Problem
-  Problem Identified by the City







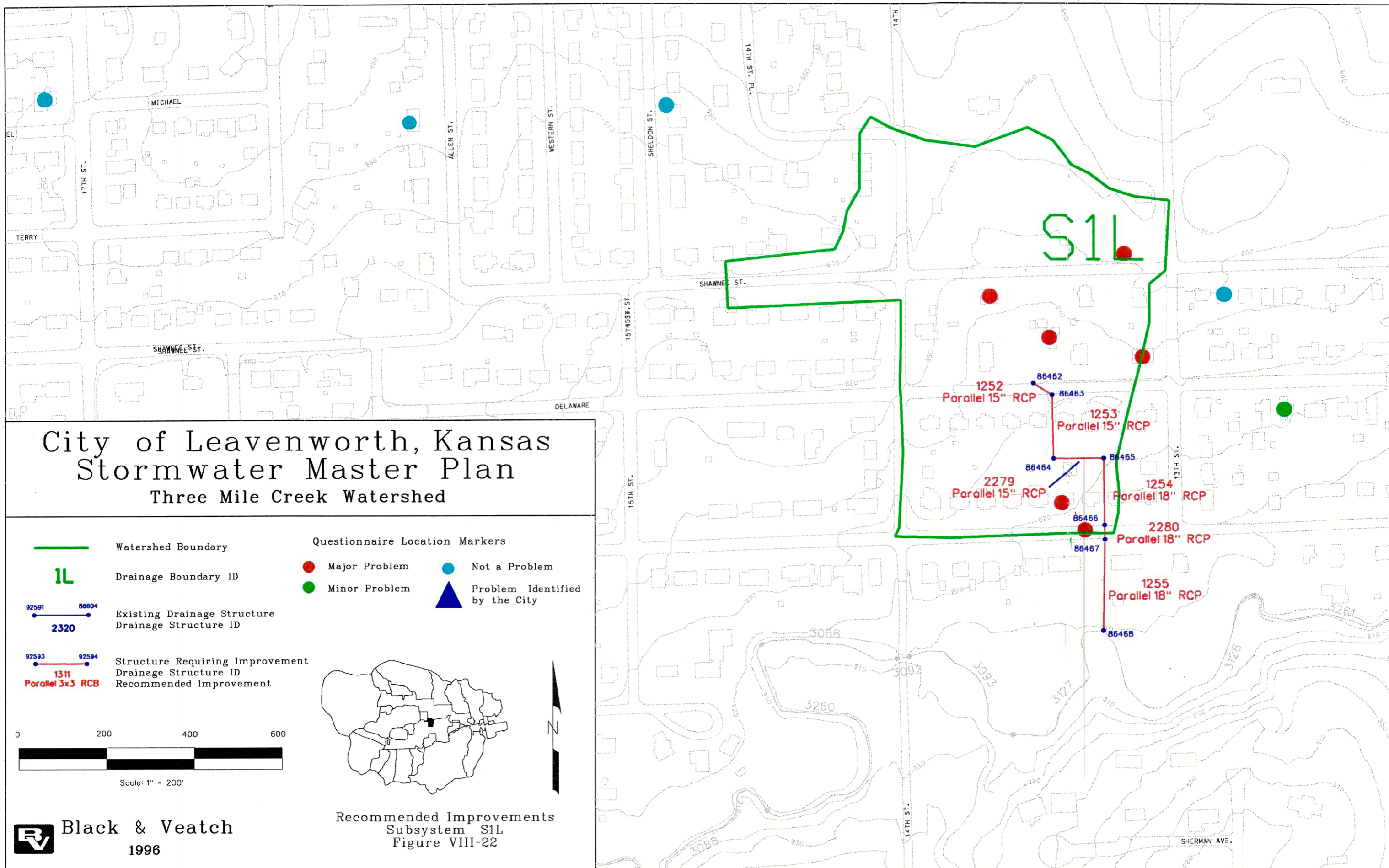
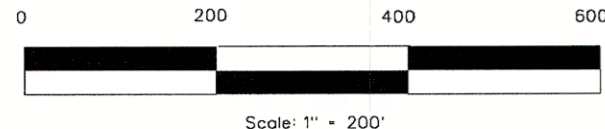
Recommended Improvements  
Subsystem S1R  
Figure VIII-21



# City of Leavenworth, Kansas Stormwater Master Plan Three Mile Creek Watershed



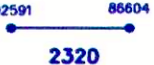
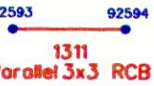
-  Watershed Boundary
-  Drainage Boundary ID
-  Existing Drainage Structure  
Drainage Structure ID
-  Structure Requiring Improvement  
Drainage Structure ID  
Recommended Improvement





- Questionnaire Location Markers
-  Major Problem
  -  Not a Problem
  -  Minor Problem
  -  Problem Identified by the City

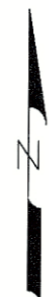
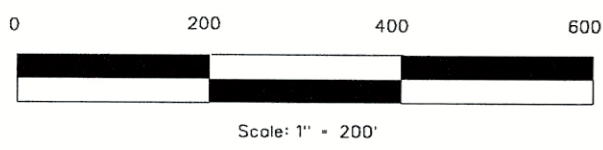




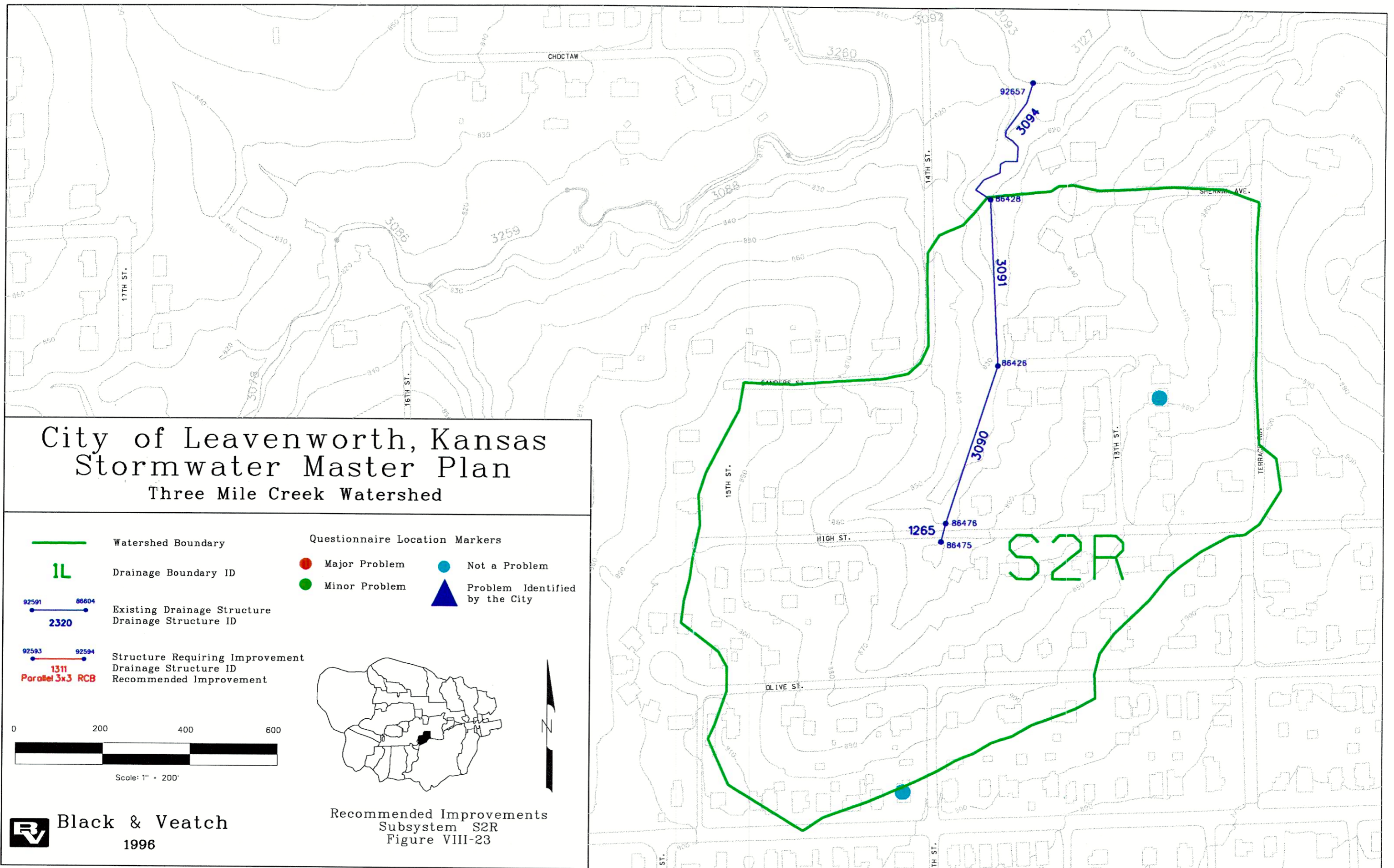
# City of Leavenworth, Kansas Stormwater Master Plan Three Mile Creek Watershed

-  Watershed Boundary
-  Drainage Boundary ID
-  Existing Drainage Structure  
Drainage Structure ID
-  Structure Requiring Improvement  
Drainage Structure ID  
Recommended Improvement





- Questionnaire Location Markers
-  Major Problem
  -  Minor Problem
  -  Not a Problem
  -  Problem Identified by the City







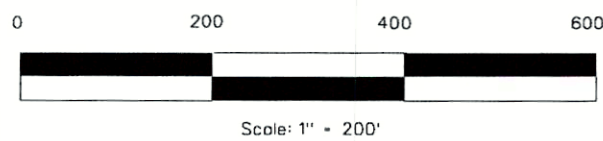
Recommended Improvements  
Subsystem S2R  
Figure VIII-23



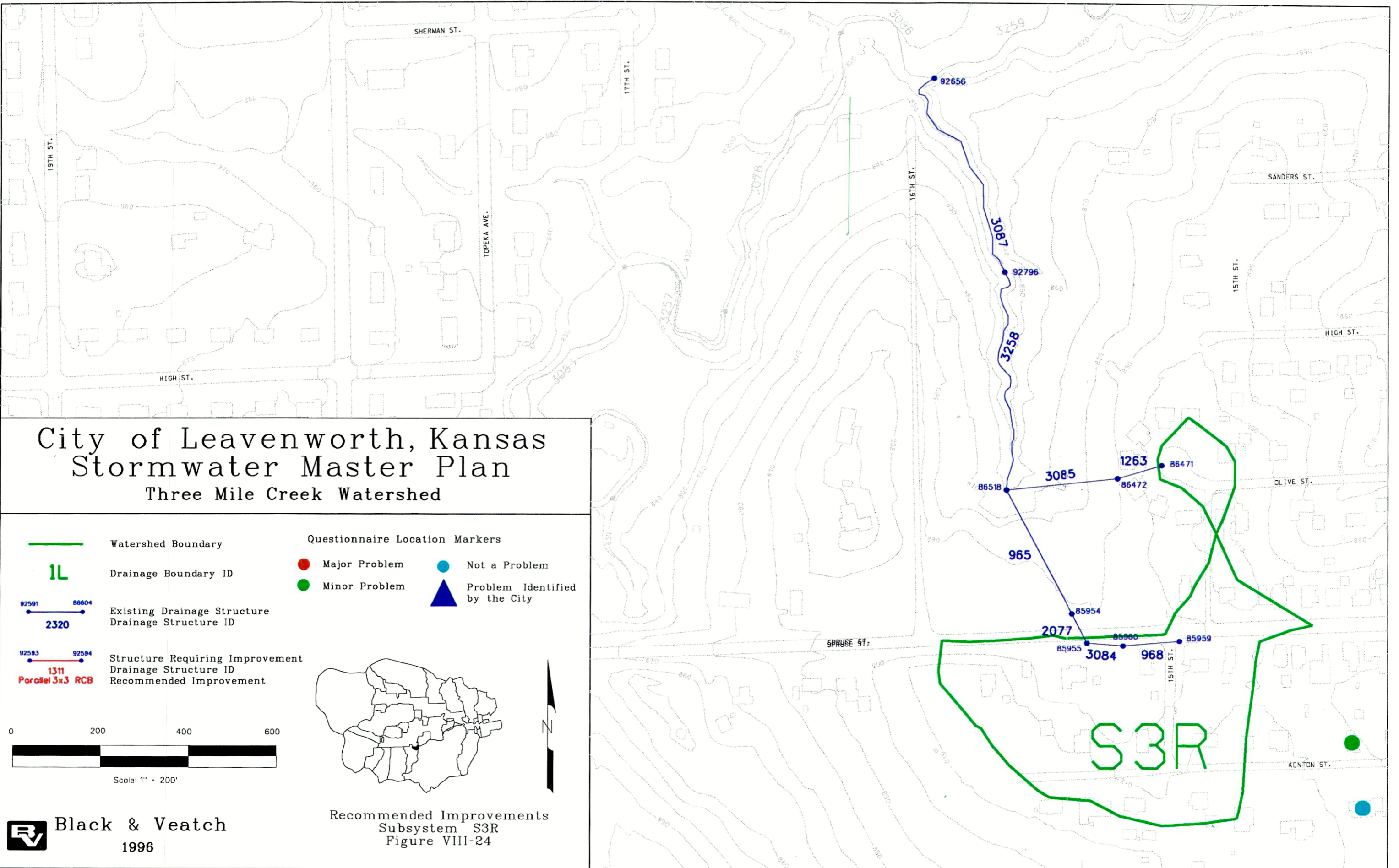
# City of Leavenworth, Kansas Stormwater Master Plan Three Mile Creek Watershed

-  Watershed Boundary
-  Drainage Boundary ID
-  Existing Drainage Structure  
Drainage Structure ID
-  Structure Requiring Improvement  
Drainage Structure ID  
Recommended Improvement




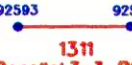
- Questionnaire Location Markers
-  Major Problem
  -  Minor Problem
  -  Not a Problem
  -  Problem Identified by the City







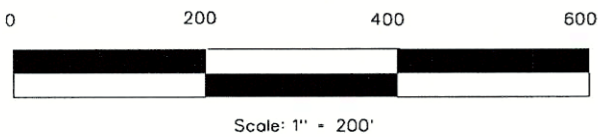
Recommended Improvements  
Subsystem S3R  
Figure VIII-24



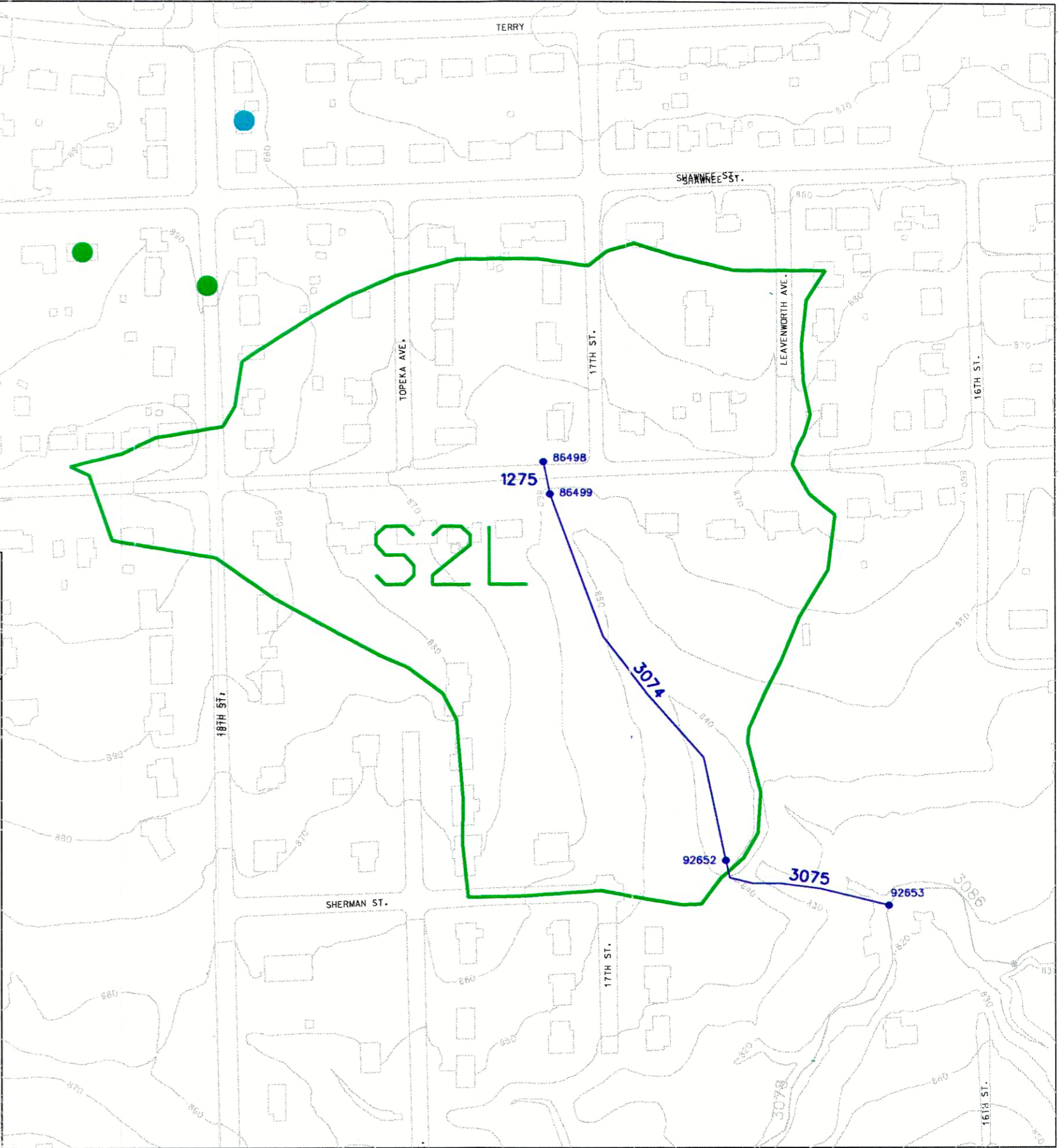
# City of Leavenworth, Kansas Stormwater Master Plan Three Mile Creek Watershed

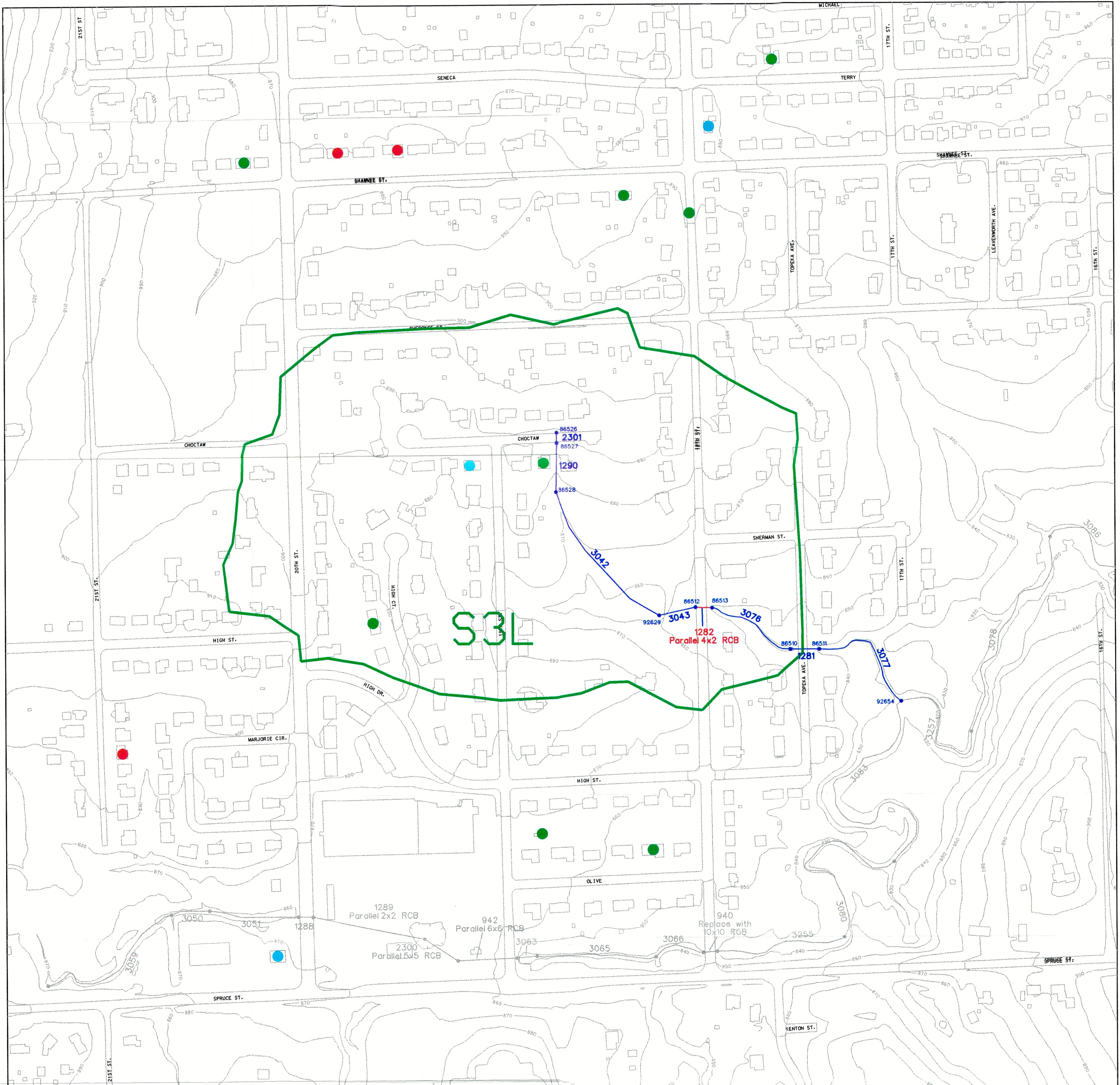
-  Watershed Boundary
-  Drainage Boundary ID
-  Existing Drainage Structure  
Drainage Structure ID
-  Structure Requiring Improvement  
Drainage Structure ID  
**Parallel 3x3 RCB** Recommended Improvement

- Questionnaire Location Markers
-  Major Problem
  -  Minor Problem
  -  Not a Problem
  -  Problem Identified by the City






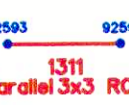



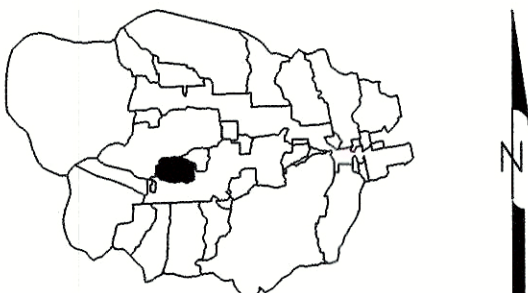
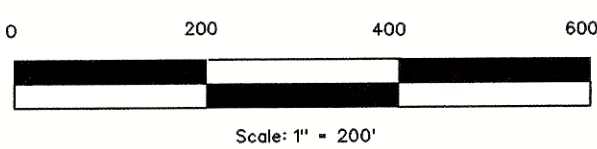
Recommended Improvements  
Subsystem S2L  
Figure VIII-25

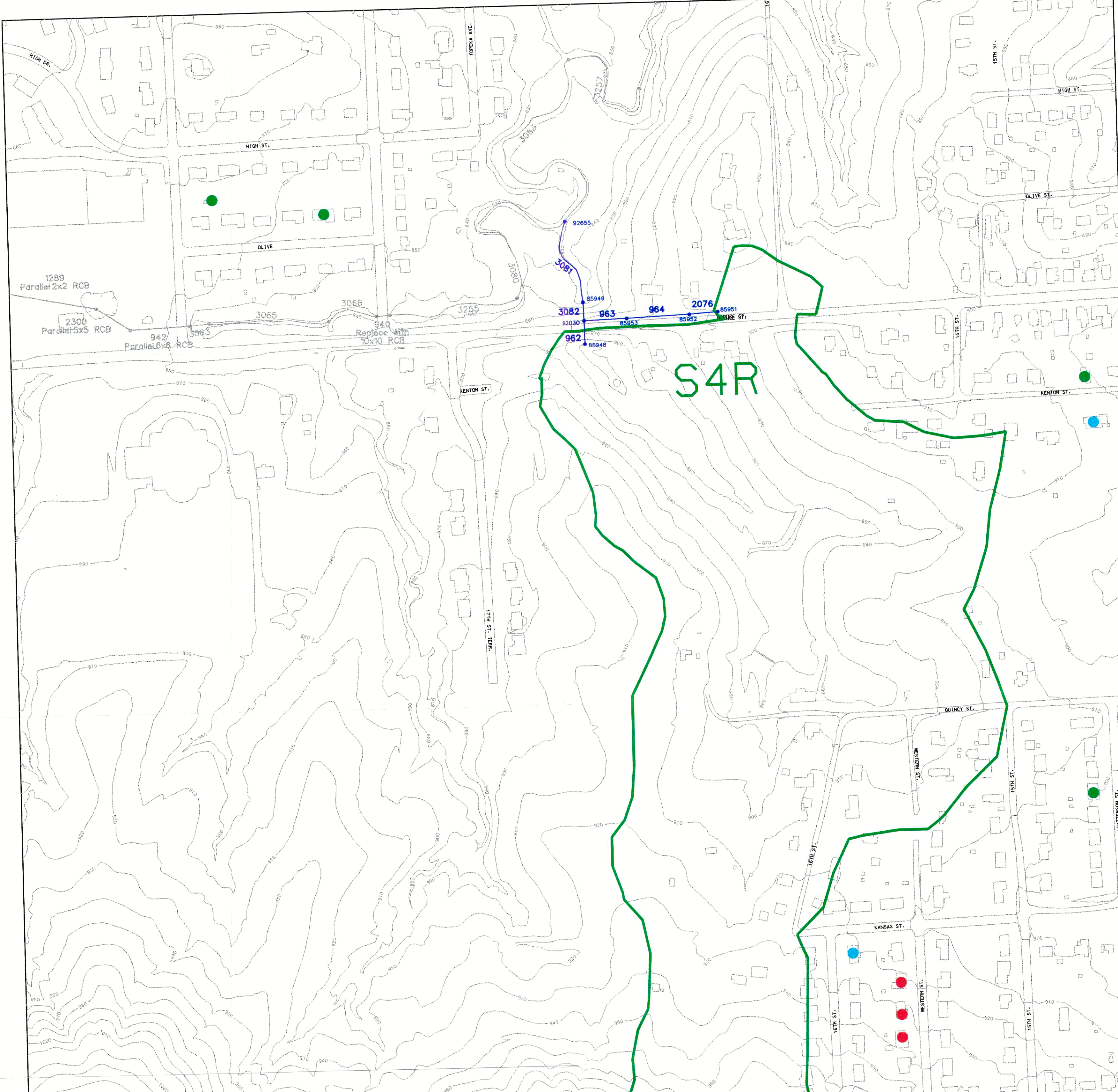




# City of Leavenworth, Kansas Stormwater Master Plan Three Mile Creek Watershed








- |   |  |
|---|--|
|  Watershed Boundary  | <b>Questionnaire Location Markers</b>  |
|  Drainage Boundary ID  |  Major Problem                  |
|  Existing Drainage Structure<br>Drainage Structure ID                                |  Minor Problem                  |
|  Structure Requiring Improvement<br>Drainage Structure ID<br>Recommended Improvement |  Problem Identified by the City |

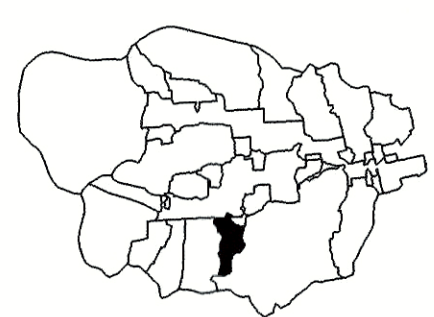
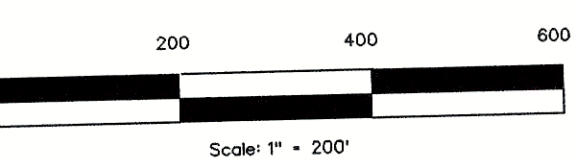




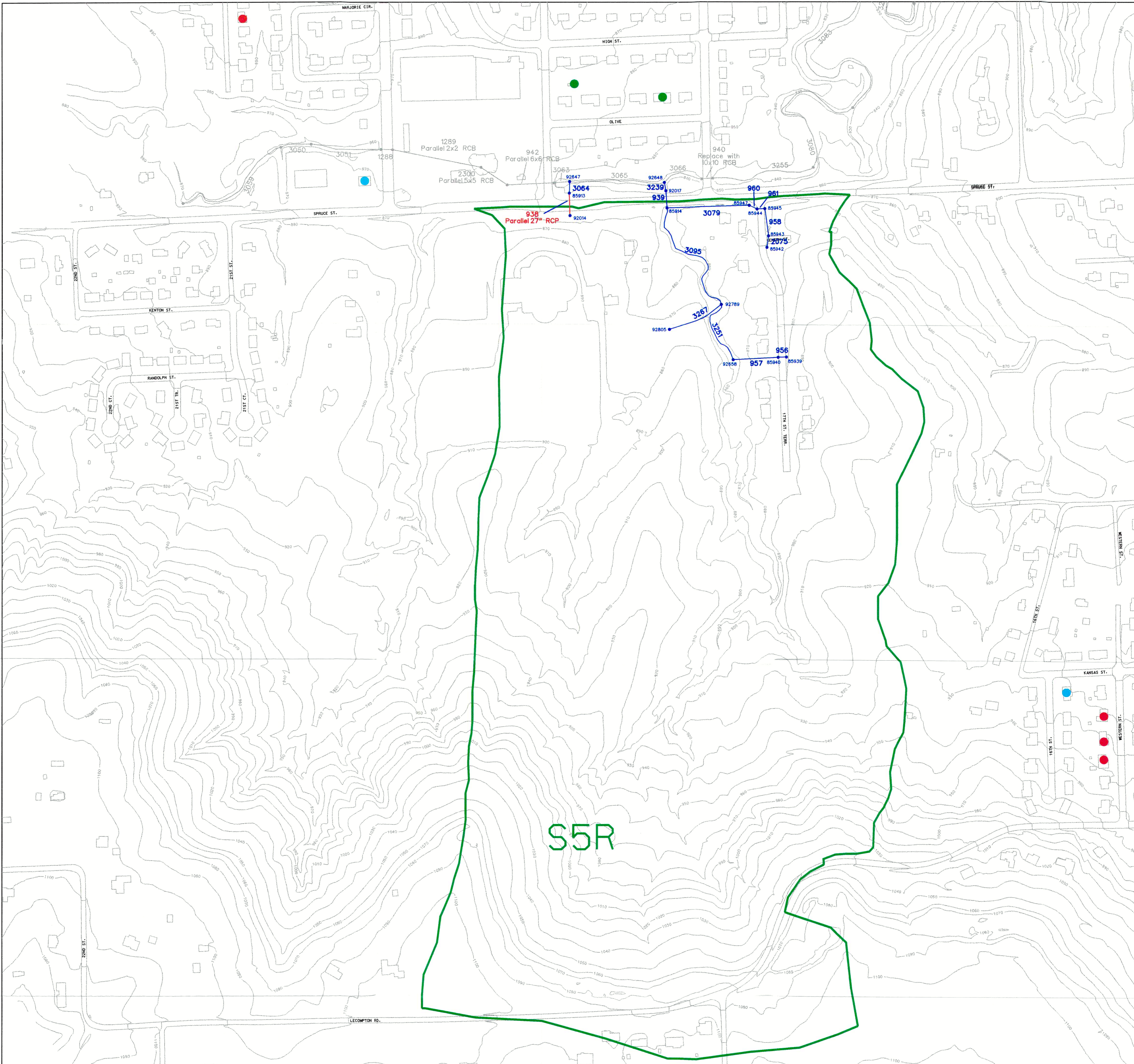
S4R

# City of Leavenworth, Kansas Stormwater Master Plan Three Mile Creek Watershed

- |   |   |   |                                |
|---|---|---|--------------------------------|
|  | Watershed Boundary  |  | Problem Identified by the City |
|  | Drainage Boundary ID  |  | Major Problem                  |
|  | Existing Drainage Structure<br>Drainage Structure ID                                |  | Minor Problem                  |
|  | Structure Requiring Improvement<br>Drainage Structure ID<br>Recommended Improvement |   |                                |












Recommended Improvements  
Subsystem S4R  
Figure VIII-27




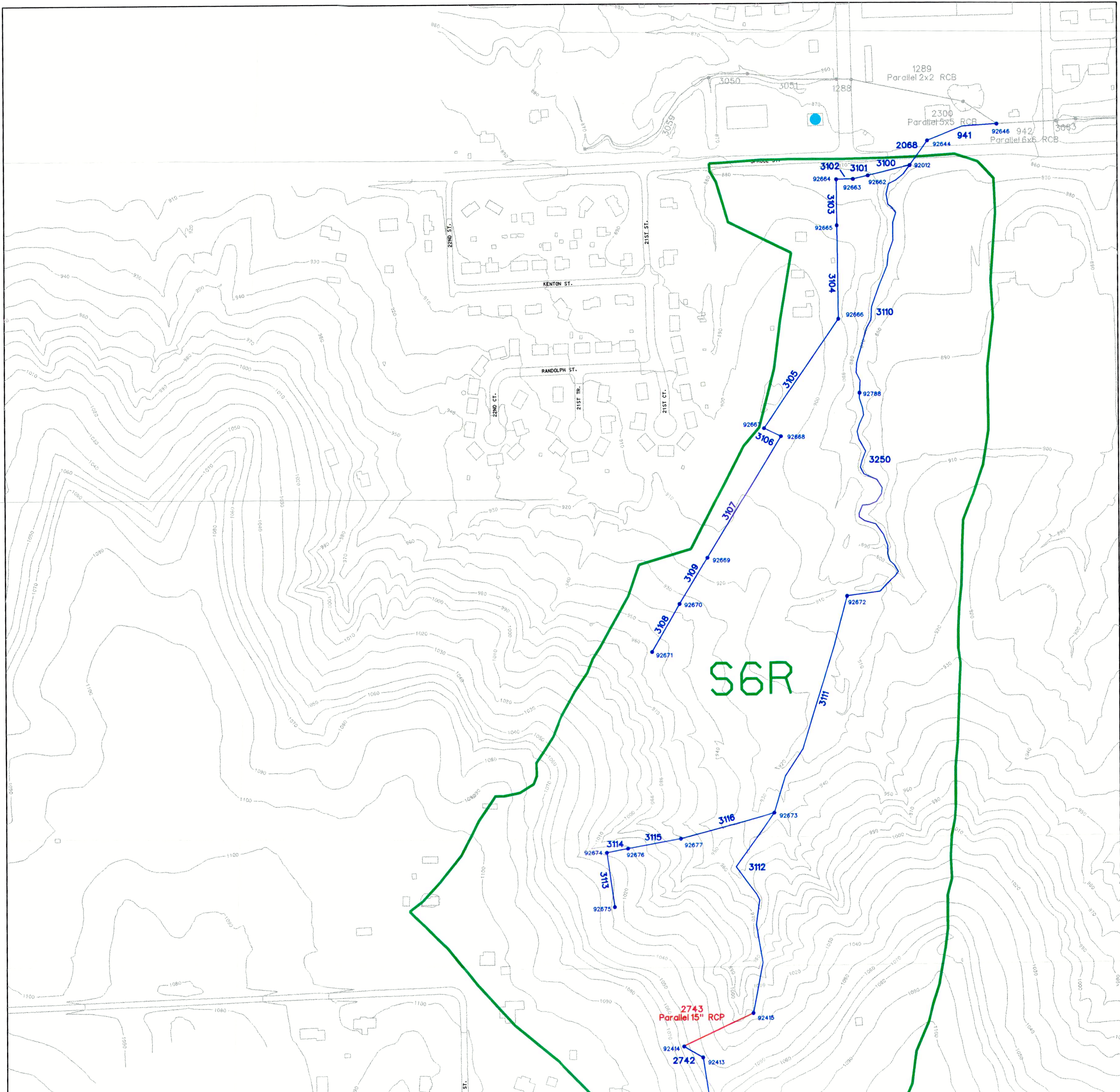
S5R

City of Leavenworth, Kansas  
 Stormwater Master Plan  
 Three Mile Creek Watershed

	Watershed Boundary		Questionnaire Location Markers
	Drainage Boundary ID		Major Problem
	Existing Drainage Structure Drainage Structure ID		Not a Problem
	Structure Requiring Improvement Drainage Structure ID		Problem Identified by the City
	Recommended Improvement		







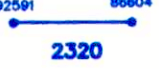

0 200 400 600  
 Scale: 1" = 200'

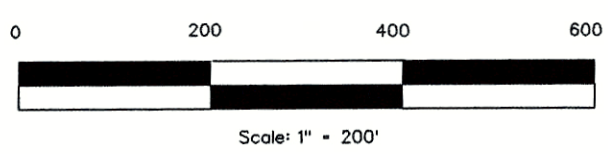


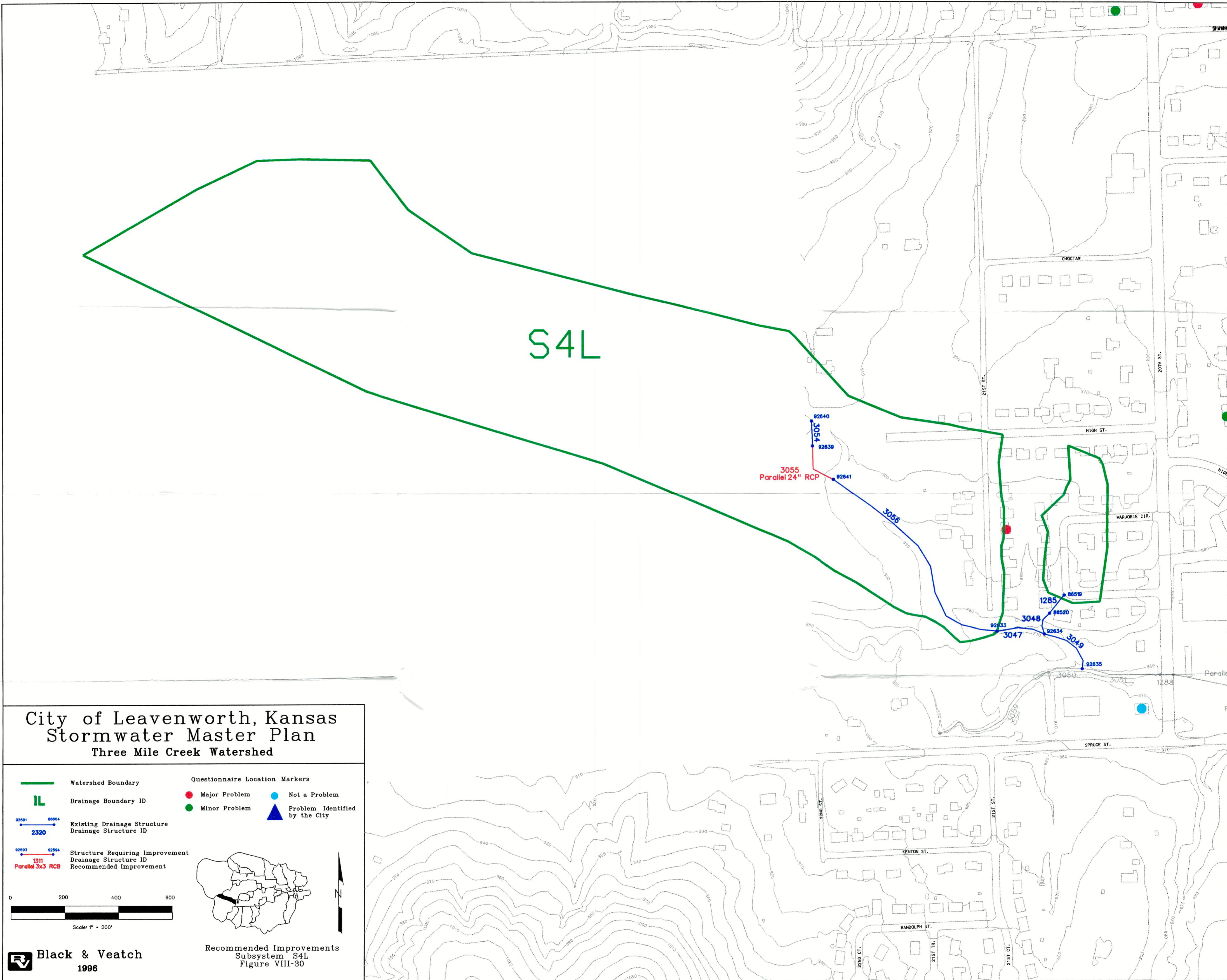


S6R







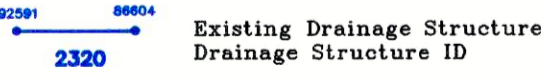

**City of Leavenworth, Kansas  
Stormwater Master Plan  
Three Mile Creek Watershed**

- |   |   |   |               |   |                                |
|---|---|---|---------------|---|--------------------------------|
|  | Watershed Boundary  |  | Major Problem |  | Not a Problem                  |
|  | Drainage Boundary ID  |  | Minor Problem |  | Problem Identified by the City |
|  | Existing Drainage Structure<br>Drainage Structure ID                                |   |               |   |                                |
|  | Structure Requiring Improvement<br>Drainage Structure ID<br>Recommended Improvement |   |               |   |                                |






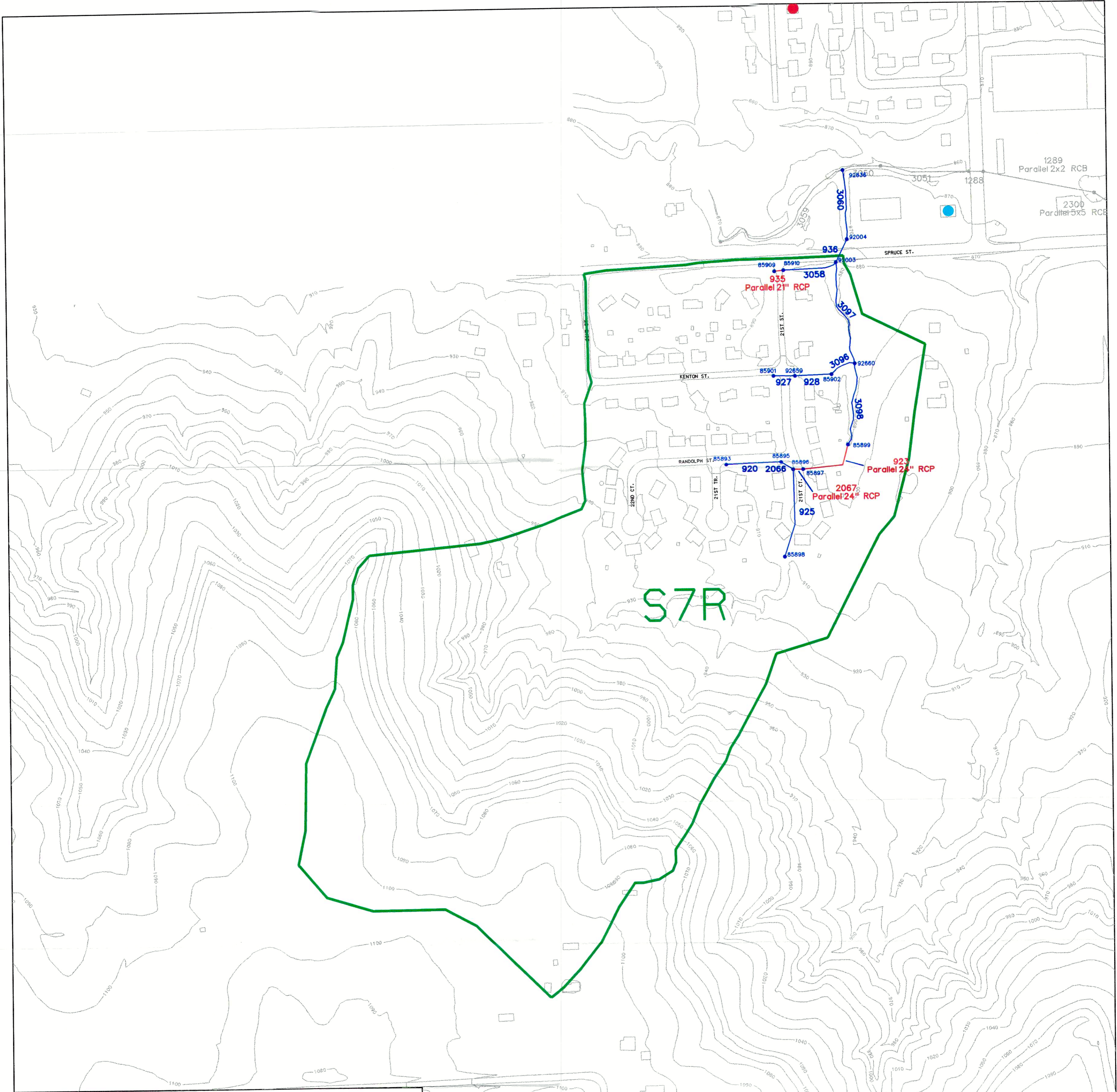
**City of Leavenworth, Kansas  
Stormwater Master Plan  
Three Mile Creek Watershed**

	Watershed Boundary		Major Problem		Not a Problem
	Drainage Boundary ID		Minor Problem		Problem Identified by the City
	Existing Drainage Structure Drainage Structure ID				
	Structure Requiring Improvement Drainage Structure ID Recommended Improvement				

0 200 400 600  
Scale: 1" = 200'

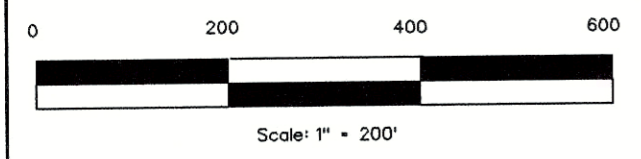




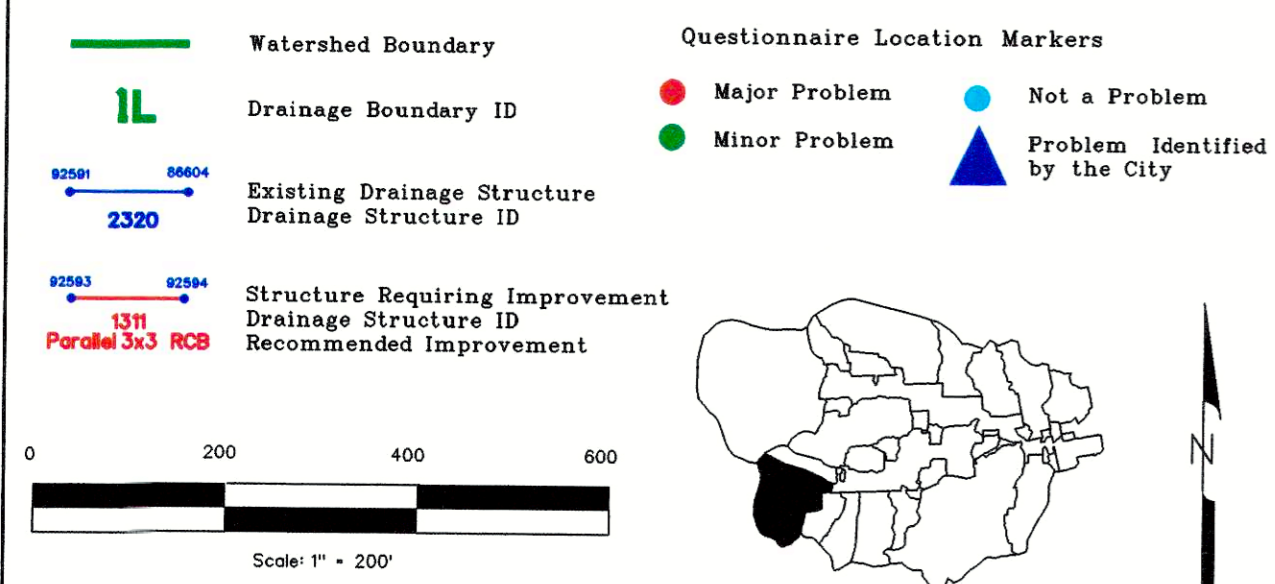


# City of Leavenworth, Kansas Stormwater Master Plan Three Mile Creek Watershed

	Watershed Boundary		Major Problem		Not a Problem
	Drainage Boundary ID		Minor Problem		Problem Identified by the City
	Existing Drainage Structure Drainage Structure ID				
	Structure Requiring Improvement Drainage Structure ID				
	Recommended Improvement Parallel 3x3 RCB				



City of Leavenworth, Kansas  
 Stormwater Master Plan  
 Three Mile Creek Watershed



S8R

929 Parallel 27" RCP  
 932 Parallel 3x3 RCB  
 933  
 92002  
 92006  
 85904  
 85903  
 85906  
 3057  
 931 Parallel 18" RCP