Figure 3.8.1

LITTLE CALUMET RIVER SUBWATERSHED OVERVIEW

Little Calumet River DWP

Local Problems
- Bank Erosion
- Maintenance
- Pavement Flooding
- Storm Sewer Flow Restriction

Regional Problems
- Bank Erosion
- Maintenance
- Overbank Flooding
- Pavement Flooding
- Problem Area Identified Through Modeling
- Candidate Structures for Floodproofing/Acquisition
- Project Alternative Location
- River/Stream
- Municipal Boundary
- County Boundary
- DWP 100-year Inundation Area

FEMA Floodplain
- Zone A; Zone AH; Zone AO
- Zone AE

N

1 inch = 5,000 feet

0 1 2
Inches

CDM

December, 2009

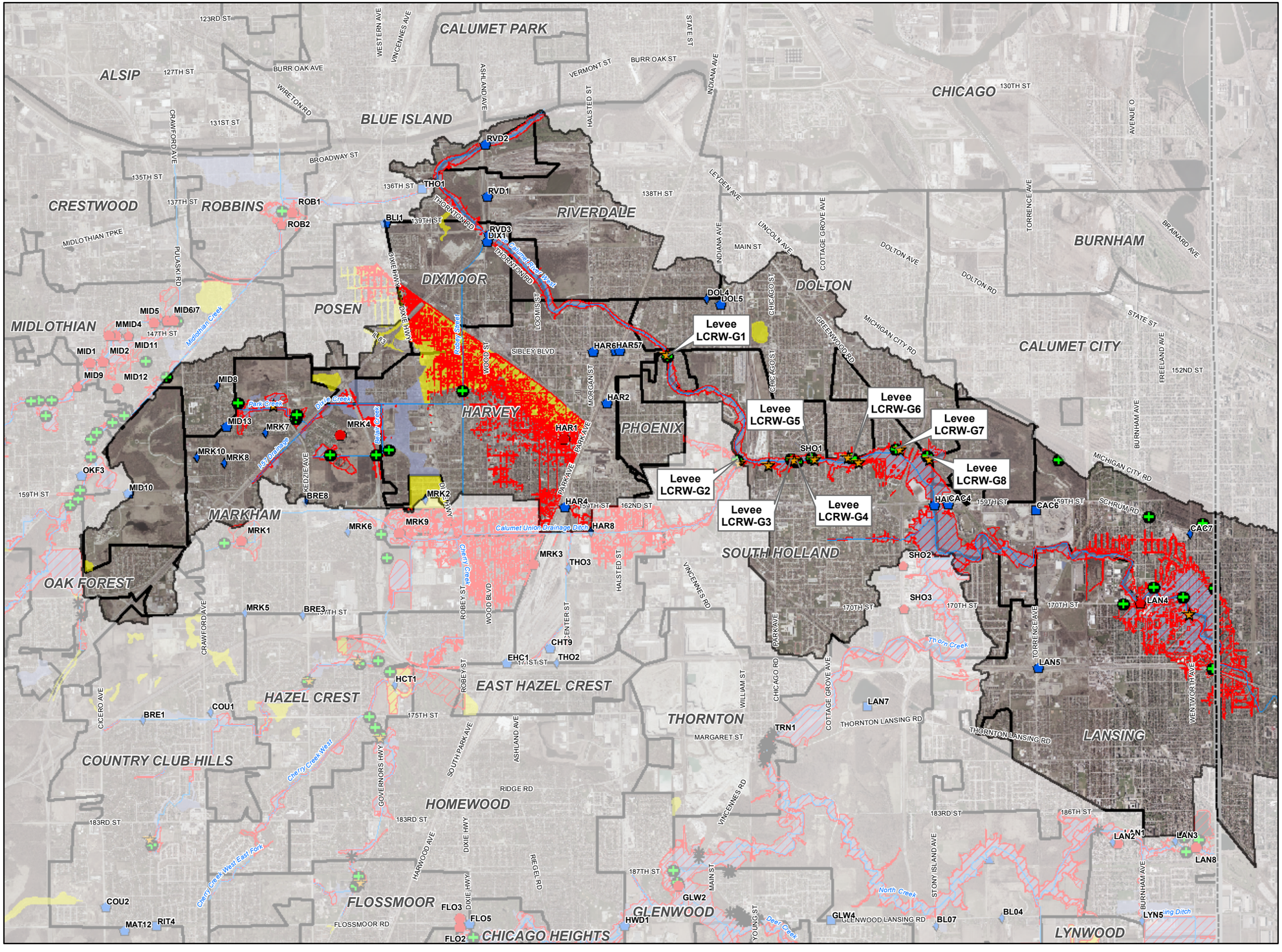


Figure 3.8.6

LITTLE CALUMET RIVER
ALTERNATIVE
LCRW-G1
Little Calumet River DWP

Alternative Description:
Construct a 600 LF floodwall near Sibley Boulevard

Conceptual Level Cost:
$3,412,000

Benefit: $16,000

B/C Ratio: <0.01

- Candidate Structures for Floodproofing/Acquisition

Regional Problems
- Bank Erosion
- Maintenance
- Overbank Flooding
- Pavement Flooding

Local Problems
- Bank Erosion
- Maintenance
- Pavement Flooding
- Storm Sewer Flow Restriction
- River/Stream
- Municipalities
- County Boundary
- Project Alternative Location
- 100-year Inundation Area With Project
- 100-year Inundation Area Without Project

0 1 2 Inches

1 inch = 250 feet

N

CDM

December, 2009

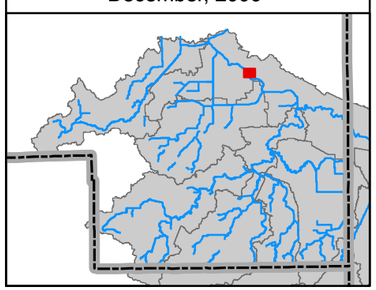


Figure 3.8.7

LITTLE CALUMET RIVER
ALTERNATIVE
LCRW-G2
Little Calumet River DWP

Alternative Description:
Construct a 1,900 LF levee/floodwall near 158th Place and 159th Street

Conceptual Level Cost:
$5,752,000

Benefit: $148,000

B/C Ratio: 0.03

- Candidate Structures for Floodproofing/Acquisition

Regional Problems
- Bank Erosion
- Maintenance
- Overbank Flooding
- Pavement Flooding

Local Problems
- Bank Erosion
- Maintenance
- Pavement Flooding
- Storm Sewer Flow Restriction
- River/Stream
- Municipalities
- County Boundary
- Project Alternative Location
- 100-year Inundation Area With Project
- 100-year Inundation Area Without Project

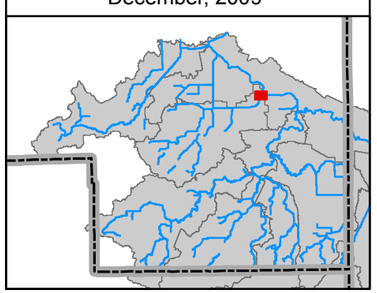
0 1 2 Inches

1 inch = 250 feet

N

CDM

December, 2009



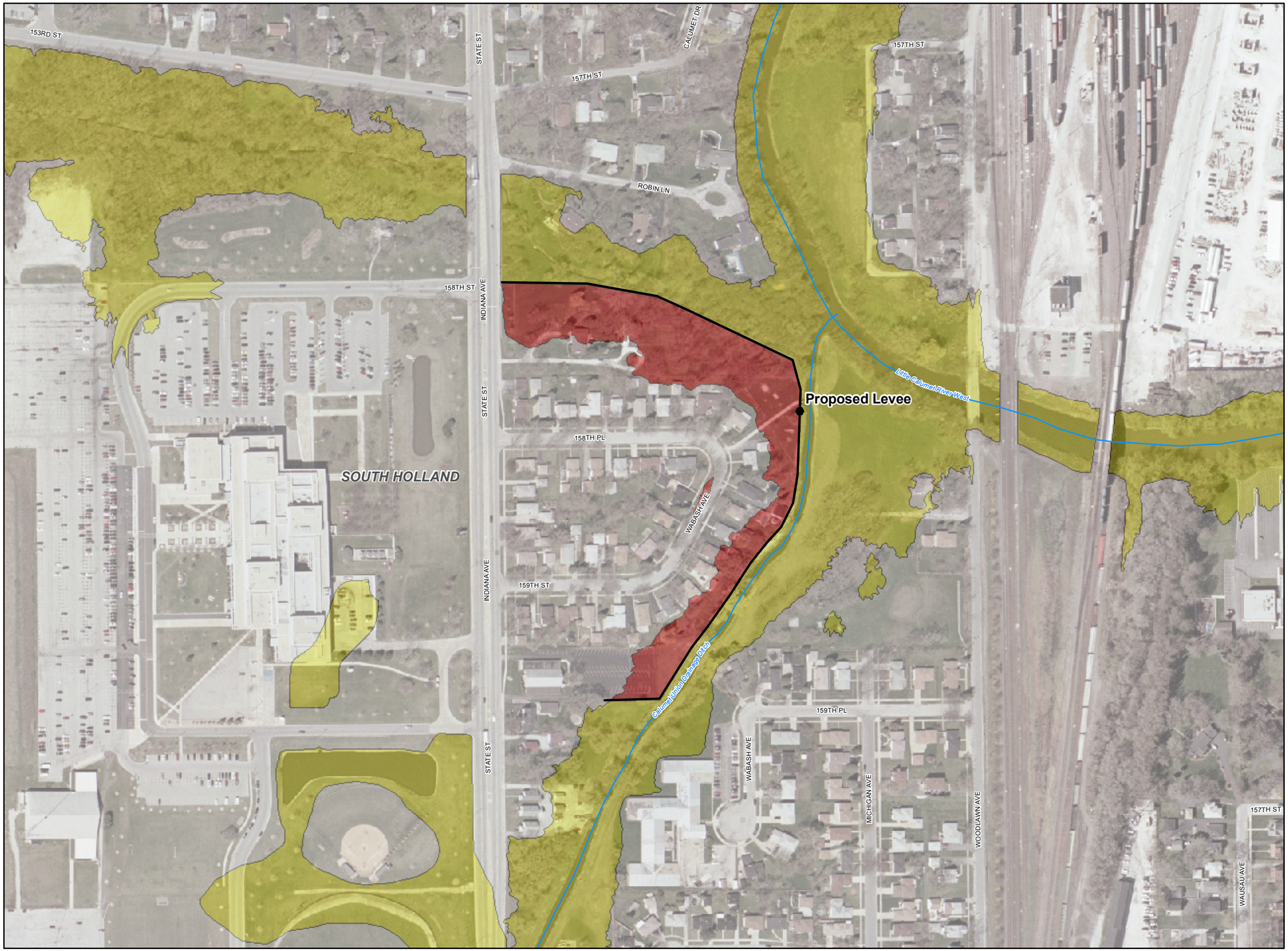


Figure 3.8.8

LITTLE CALUMET RIVER
ALTERNATIVE LCRW-G3
Little Calumet River DWP

Alternative Description:
Construct a 850 LF floowall near 158th Street and Chicago Avenue

Conceptual Level Cost:
$4,332,000

Benefit: $4,000

B/C Ratio: <0.01

* Candidate Structures for Floodproofing/Acquisition

Regional Problems
- Bank Erosion
- Maintenance
- Overbank Flooding
- Pavement Flooding

Local Problems
- Bank Erosion
- Maintenance
- Pavement Flooding
- Storm Sewer Flow Restriction
- River/Stream
- Municipalities
- County Boundary
- Project Alternative Location
- 100-year Inundation Area With Project
- 100-year Inundation Area Without Project

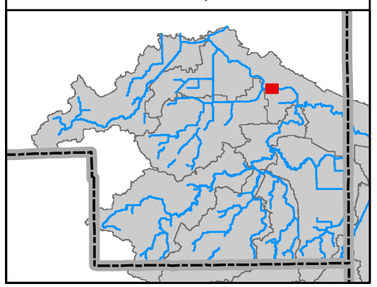
0 1 2 Inches

1 inch = 250 feet

N

CDM

December, 2009



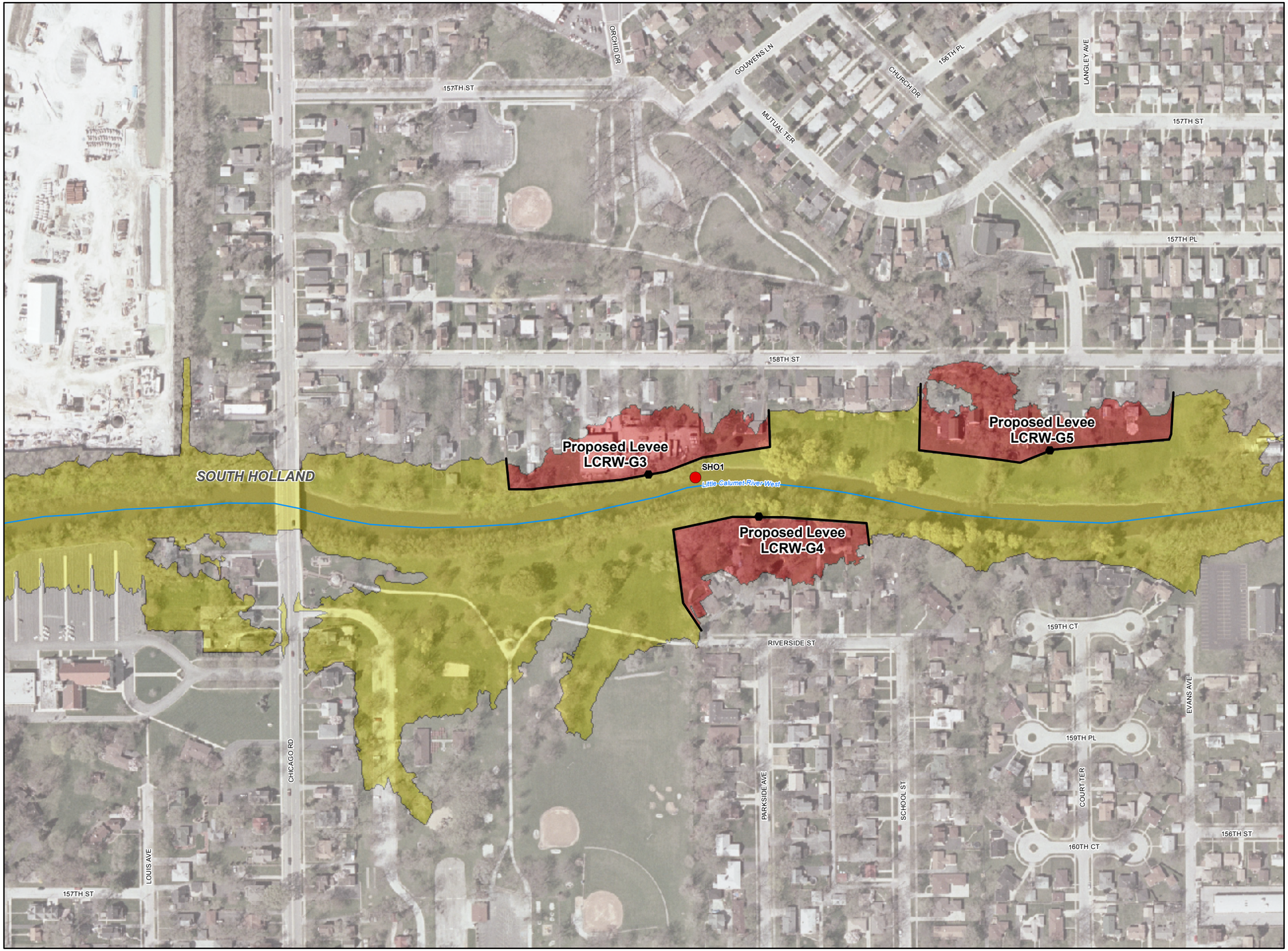


Figure 3.8.9

LITTLE CALUMET RIVER
ALTERNATIVE LCRW-G4
Little Calumet River DWP

Alternative Description:
Construct a 825 LF floowall near Parkside Avenue and School Street

Conceptual Level Cost:
$3,427,000

Benefit: $3,000

B/C Ratio: <0.01

* Candidate Structures for Floodproofing/Acquisition

Regional Problems
- Bank Erosion
- Maintenance
- Overbank Flooding
- Pavement Flooding

Local Problems
- Bank Erosion
- Maintenance
- Pavement Flooding
- Storm Sewer Flow Restriction
- River/Stream
- Municipalities
- County Boundary
- Project Alternative Location
- 100-year Inundation Area With Project
- 100-year Inundation Area Without Project

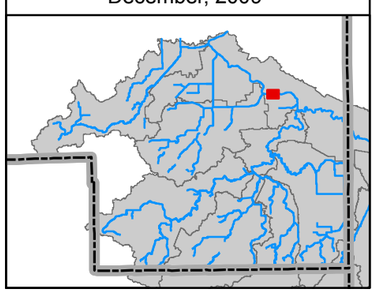
0 1 2 Inches

1 inch = 250 feet

N

CDM

December, 2009



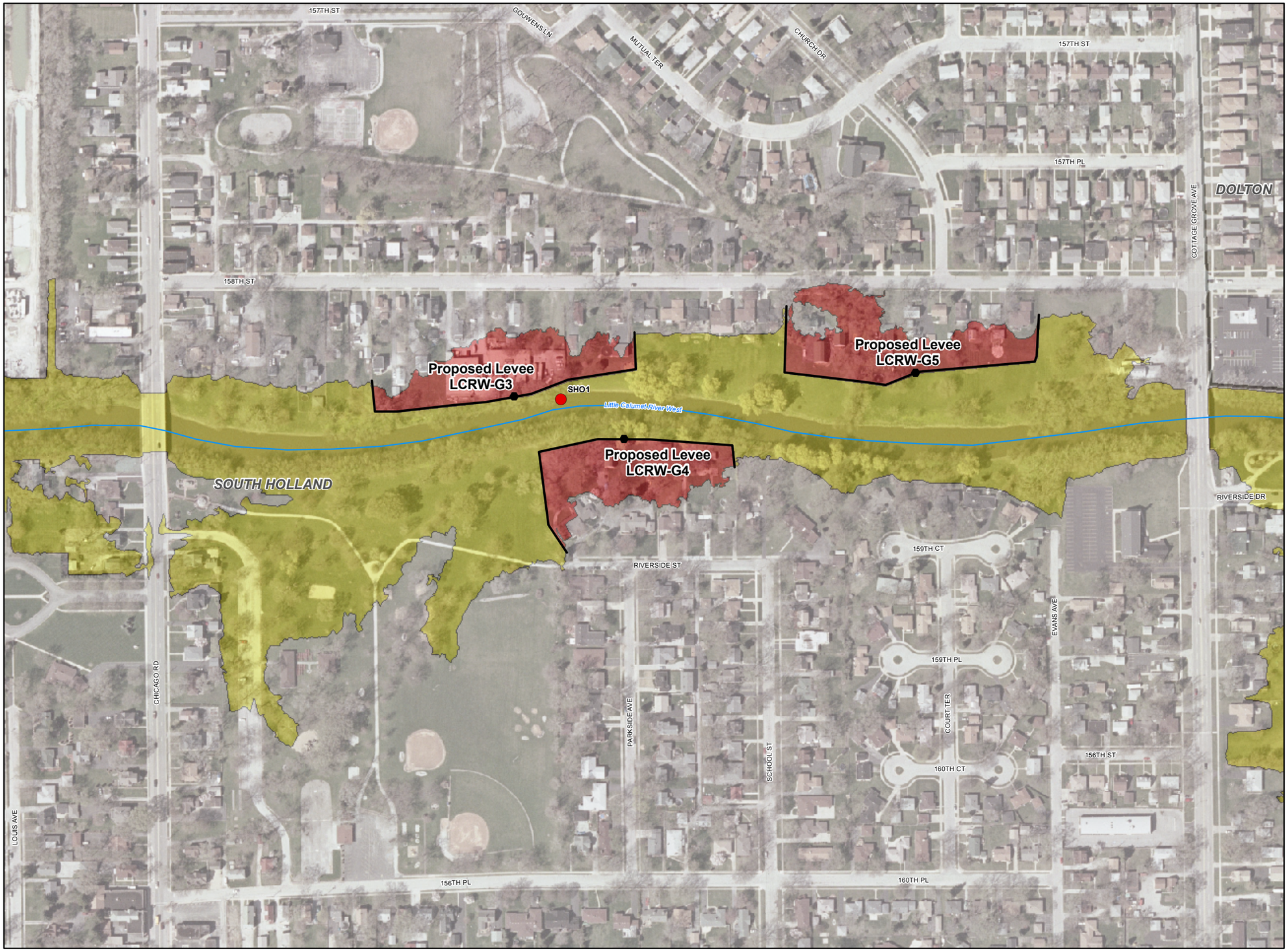


Figure 3.8.10

LITTLE CALUMET RIVER
ALTERNATIVE
LCRW-G5
Little Calumet River DWP

Alternative Description:
Construct a 930 LF floowall near 158th Street and Church Drive

Conceptual Level Cost:
$1,126,000

Benefit: $2,494,000

B/C Ratio: 2.21

- Candidate Structures for Floodproofing/Acquisition

Regional Problems
- Bank Erosion
- Maintenance
- Overbank Flooding
- Pavement Flooding

Local Problems
- Bank Erosion
- Maintenance
- Pavement Flooding
- Storm Sewer Flow Restriction
- River/Stream
- Municipalities
- County Boundary
- Project Alternative Location
- 100-year Inundation Area With Project
- 100-year Inundation Area Without Project

0 1 2 Inches

1 inch = 250 feet

N

CDM

December, 2009

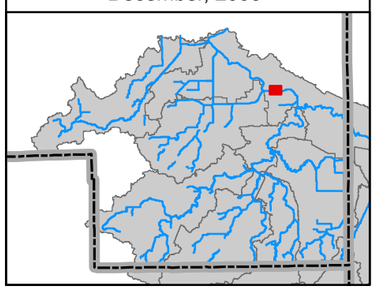


Figure 3.8.11

LITTLE CALUMET RIVER
ALTERNATIVE
LCRW-G6
Little Calumet River DWP

Alternative Description:
Construct a 1285 LF floowall near Blouin Drive

Conceptual Level Cost:
$2,401,000
Benefit: $60,000 **B/C Ratio:** 0.03

Candidate Structures for Floodproofing/Acquisition

Regional Problems
- Bank Erosion
- Maintenance
- Overbank Flooding
- Pavement Flooding

Local Problems
- Bank Erosion
- Maintenance
- Pavement Flooding
- Storm Sewer Flow Restriction
- River/Stream
- Municipalities
- County Boundary
- Project Alternative Location
- 100-year Inundation Area With Project
- 100-year Inundation Area Without Project

0 1 2 Inches

1 inch = 250 feet

N

CDM

December, 2009

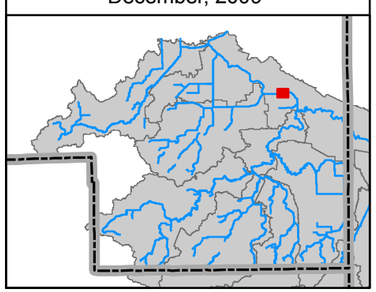


Figure 3.8.12

LITTLE CALUMET RIVER
ALTERNATIVE
LCRW-G7
Little Calumet River DWP

Alternative Description:
Construct a 785 LF floowall near 158th Street

Conceptual Level Cost:
$3,040,000
Benefit: $21,000
B/C Ratio: 0.01

Candidate Structures for Floodproofing/Acquisition

Regional Problems
- Bank Erosion
- Maintenance
- Overbank Flooding
- Pavement Flooding

Local Problems
- Bank Erosion
- Maintenance
- Pavement Flooding
- Storm Sewer Flow Restriction
- River/Stream
- Municipalities
- County Boundary
- Project Alternative Location
- 100-year Inundation Area With Project
- 100-year Inundation Area Without Project

0 1 2 Inches

1 inch = 250 feet

N

CDM

December, 2009

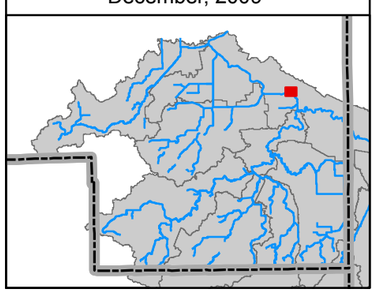


Figure 3.8.13

LITTLE CALUMET RIVER
ALTERNATIVE
LCRW-G8
Little Calumet River DWP

Alternative Description:
Modify existing berm to act as a levee to 158th Street near Greenwood Drive and Madison Avenue

Conceptual Level Cost:
$2,373,000
Benefit: $702,000
B/C Ratio: 0.30

Candidate Structures for Floodproofing/Acquisition

Regional Problems
- Bank Erosion
- Maintenance
- Overbank Flooding
- Pavement Flooding

Local Problems
- Bank Erosion
- Maintenance
- Pavement Flooding
- Storm Sewer Flow Restriction

River/Stream
Municipalities
County Boundary
Project Alternative Location
100-year Inundation Area With Project
100-year Inundation Area Without Project

0 1 2 Inches
1 inch = 250 feet

N

CDM

December, 2009