



APPENDIX
Existing System Detailed Modelling Results
– 100-Year, 24-Hour

D

Document Path: M:\eremj\16462 - Spruce Grove Stormwater Master Plan\01_GIS\16462 - Map Book D - Existing System Results_100Y24H.mxd



LEGEND

- SWMF
- Maximum HGL Relative to Ground**
 - Less than -3.0m
 - -3.0m to -1.2m
 - -1.2m to 0.0m
 - Greater than 0.0m
- Peak Flow Relative to Capacity**
 - Less than 86%
 - 86% to 100%
 - Greater than 100%
- Maximum Depth (m)**
 - <= 0.1 m
 - 0.1 - 0.2 m
 - 0.2 - 0.3 m
 - 0.3 - 0.4 m
 - 0.4 - 0.5 m
 - > 0.5 m

SWMF maximum depths are relative to LiDAR elevations that cannot penetrate through water surfaces. Thus, elevations within SWMFs are relative to NWL.

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15A
15	16	17		

TITLE
EXISTING STORMWATER SYSTEM MODELLING RESULTS: 100-YR, 24-HR DESIGN STORM

PROJECT
SPRUCE GROVE STORMWATER MASTER PLAN
CLIENT
THE CITY OF SPRUCE GROVE

DATA SOURCES
- Topographic Map: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community
Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

PROJECTION
NAD 1983 CSRS 3TM 114

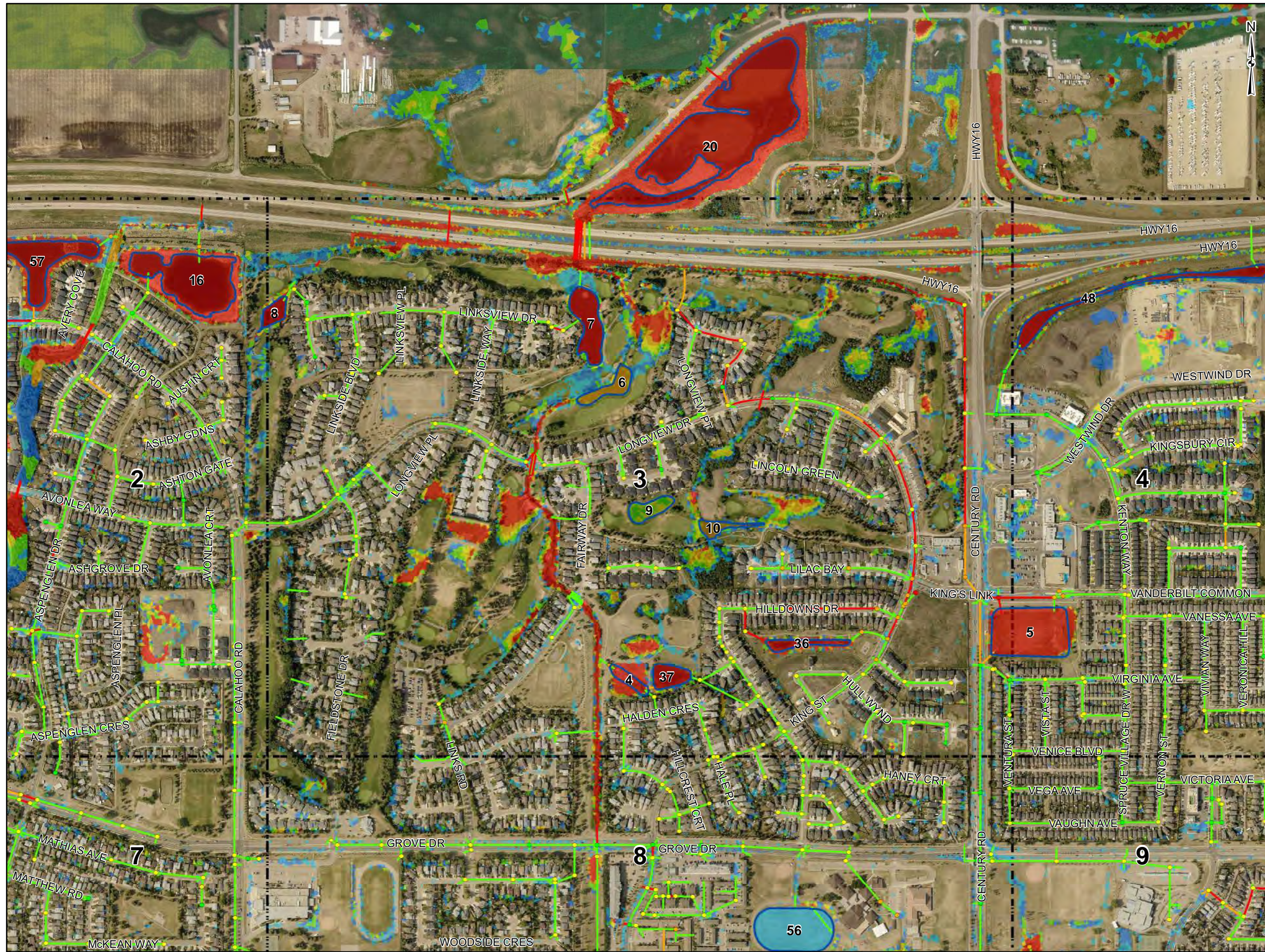
0 60 120 240

1:8,500

Meters

FIGURE D.2
DATE 2024-05-27
PROJECT NO. 16462
AUTHOR JS





LEGEND

- SWMF
- Maximum HGL Relative to Ground**
 - Less than -3.0m
 - -3.0m to -1.2m
 - -1.2m to 0.0m
 - Greater than 0.0m
- Peak Flow Relative to Capacity**
 - Less than 86%
 - 86% to 100%
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- Maximum Depth (m)**
 - <= 0.1 m
 - 0.1 - 0.2 m
 - 0.2 - 0.3 m
 - 0.3 - 0.4 m
 - 0.4 - 0.5 m
 - > 0.5 m

SWMF maximum depths are relative to LiDAR elevations that cannot penetrate through water surfaces. Thus, elevations within SWMFs are relative to NWL.

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17			

TITLE
EXISTING STORMWATER SYSTEM MODELLING RESULTS: 100-YR, 24-HR DESIGN STORM

PROJECT
SPRUCE GROVE STORMWATER MASTER PLAN
CLIENT
THE CITY OF SPRUCE GROVE

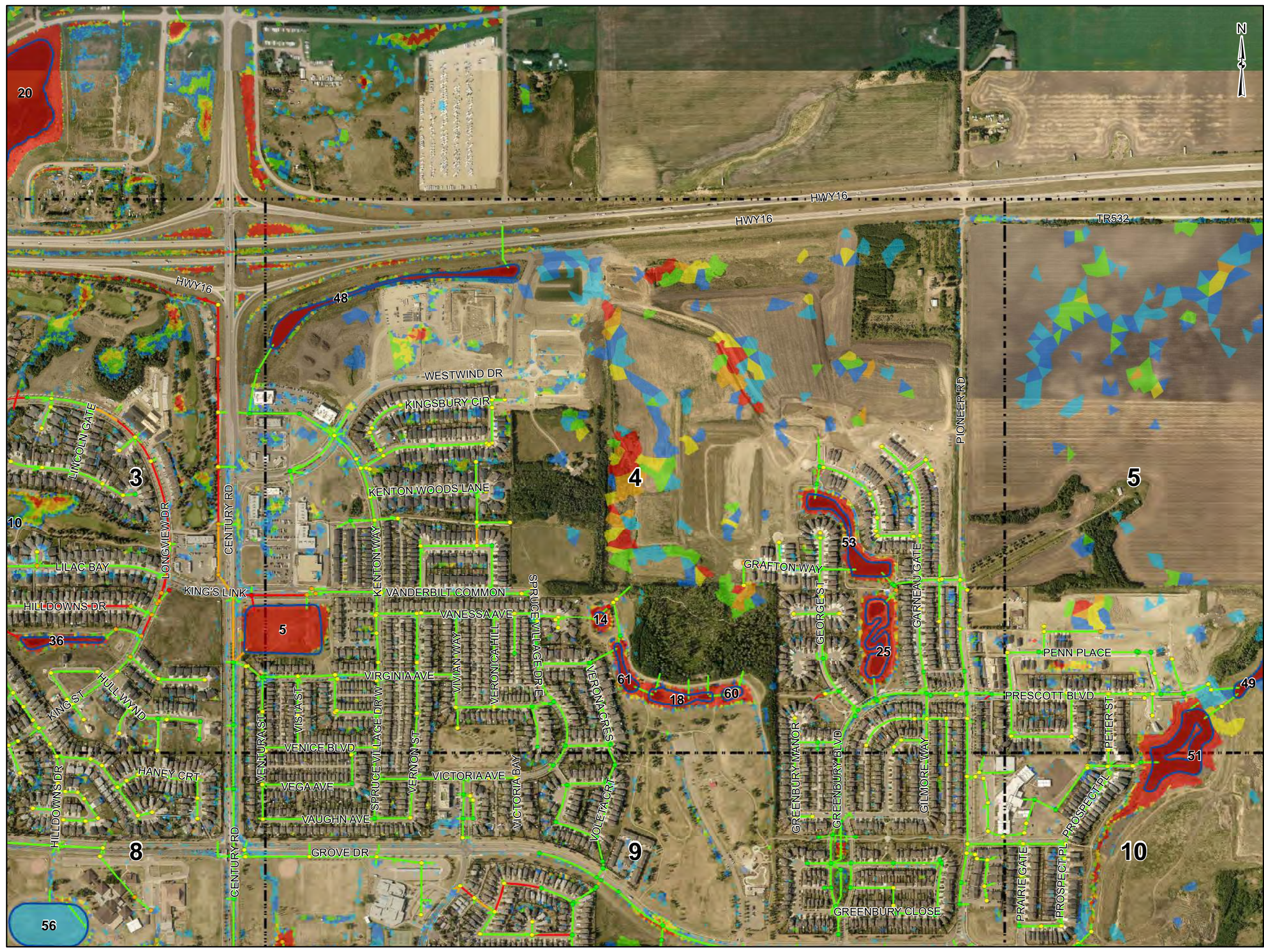
DATA SOURCES
- Topographic Map: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community
Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

PROJECTION
NAD 1983 CSRS 3TM 114

0 60 120 240
1:8,500 Meters

FIGURE D.3
DATE 2024-05-27
PROJECT NO. 16462
AUTHOR JS





LEGEND

SWMF

Maximum HGL Relative to Ground

- Less than -3.0m
- -3.0m to -1.2m
- -1.2m to 0.0m
- Greater than 0.0m

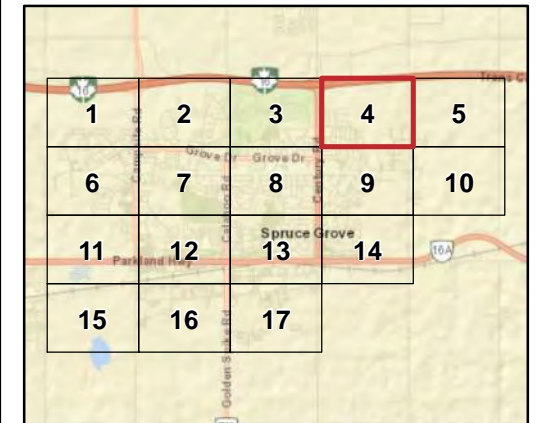
Peak Flow Relative to Capacity

- Less than 86%
- 86% to 100%
- Greater than 100%

Maximum Depth (m)

- <= 0.1 m
- 0.1 - 0.2 m
- 0.2 - 0.3 m
- 0.3 - 0.4 m
- 0.4 - 0.5 m
- > 0.5 m

SWMF maximum depths are relative to LiDAR elevations that cannot penetrate through water surfaces. Thus, elevations within SWMFs are relative to NWL.



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Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

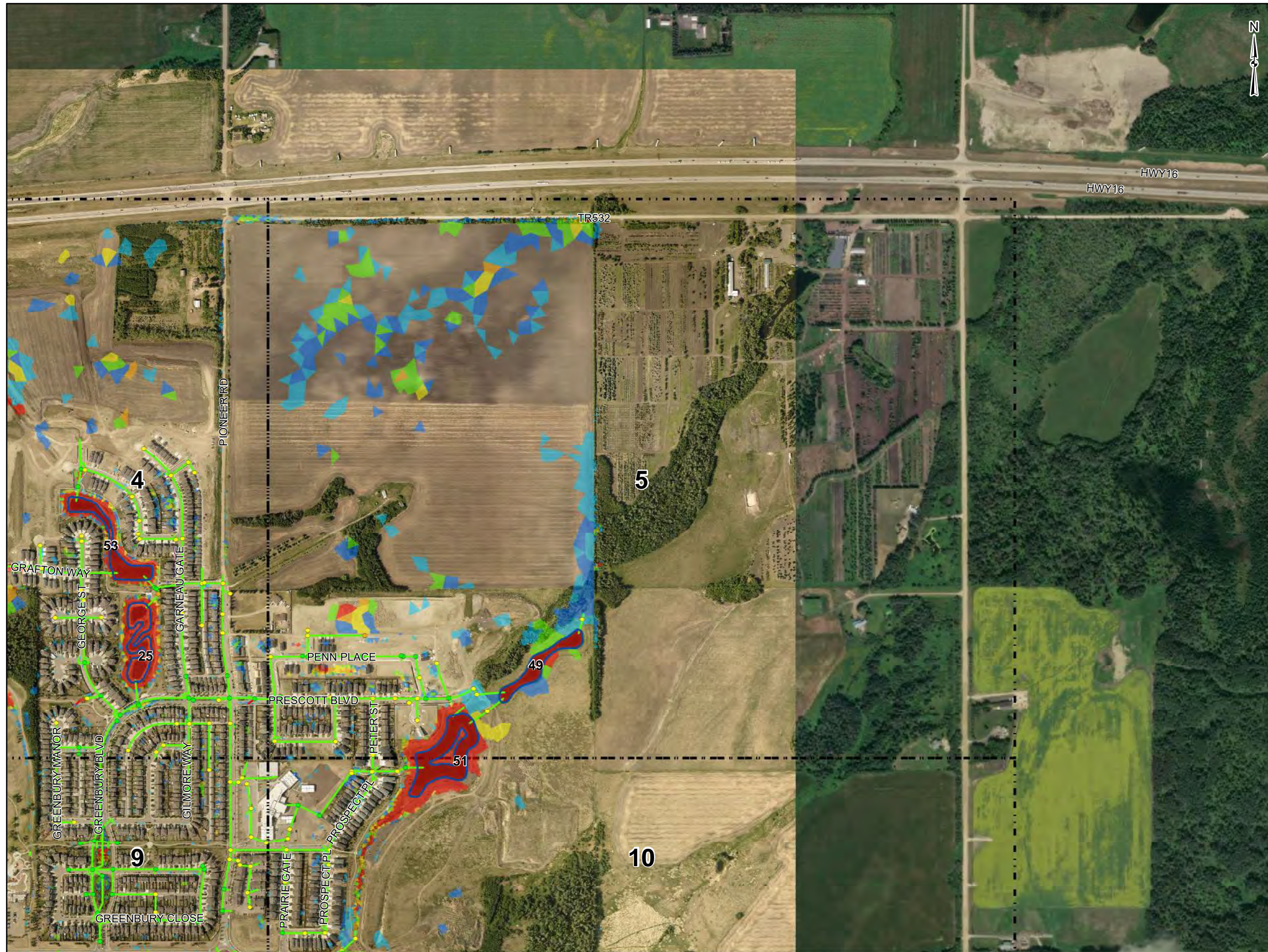
PROJECTION
NAD 1983 CSRS 3TM 114

0 60 120 240
1:8,500 Meters

ISL

FIGURE D.4
DATE 2024-05-27
PROJECT NO. 16462
AUTHOR JS

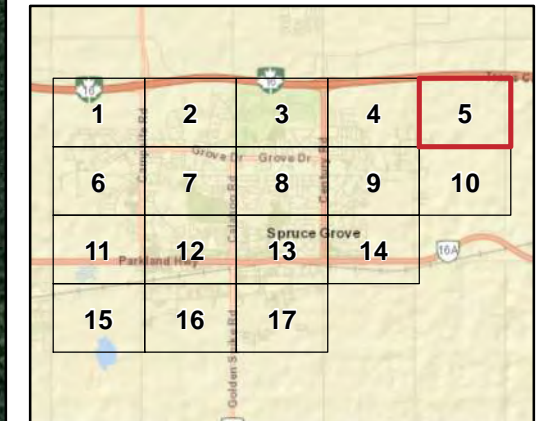
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LEGEND

- SWMF
- Maximum HGL Relative to Ground**
- Less than -3.0m
- -3.0m to -1.2m
- -1.2m to 0.0m
- Greater than 0.0m
- Peak Flow Relative to Capacity**
- Less than 86%
- 86% to 100%
- Greater than 100%
- Maximum Depth (m)**
- <= 0.1 m
- 0.1 - 0.2 m
- 0.2 - 0.3 m
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- 0.4 - 0.5 m
- > 0.5 m

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Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

PROJECTION
NAD 1983 CSRS 3TM 114

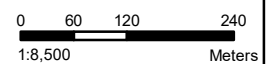


FIGURE D.5
DATE 2024-05-27
PROJECT NO. 16462
AUTHOR JS



LEGEND

SWMF

Maximum HGL Relative to Ground

- Less than -3.0m
- -3.0m to -1.2m
- -1.2m to 0.0m
- Greater than 0.0m

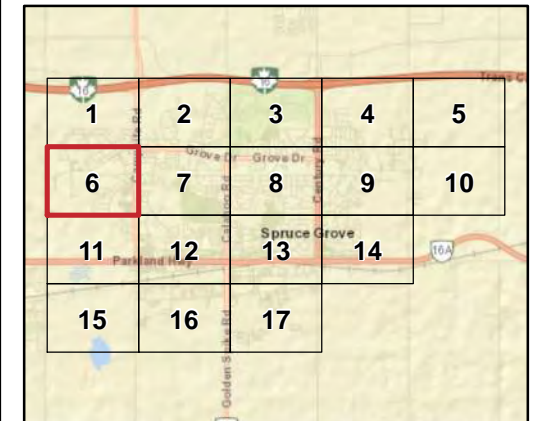
Peak Flow Relative to Capacity

- Less than 86%
- 86% to 100%
- Greater than 100%

Maximum Depth (m)

- <= 0.1 m
- 0.1 - 0.2 m
- 0.2 - 0.3 m
- 0.3 - 0.4 m
- 0.4 - 0.5 m
- > 0.5 m

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Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

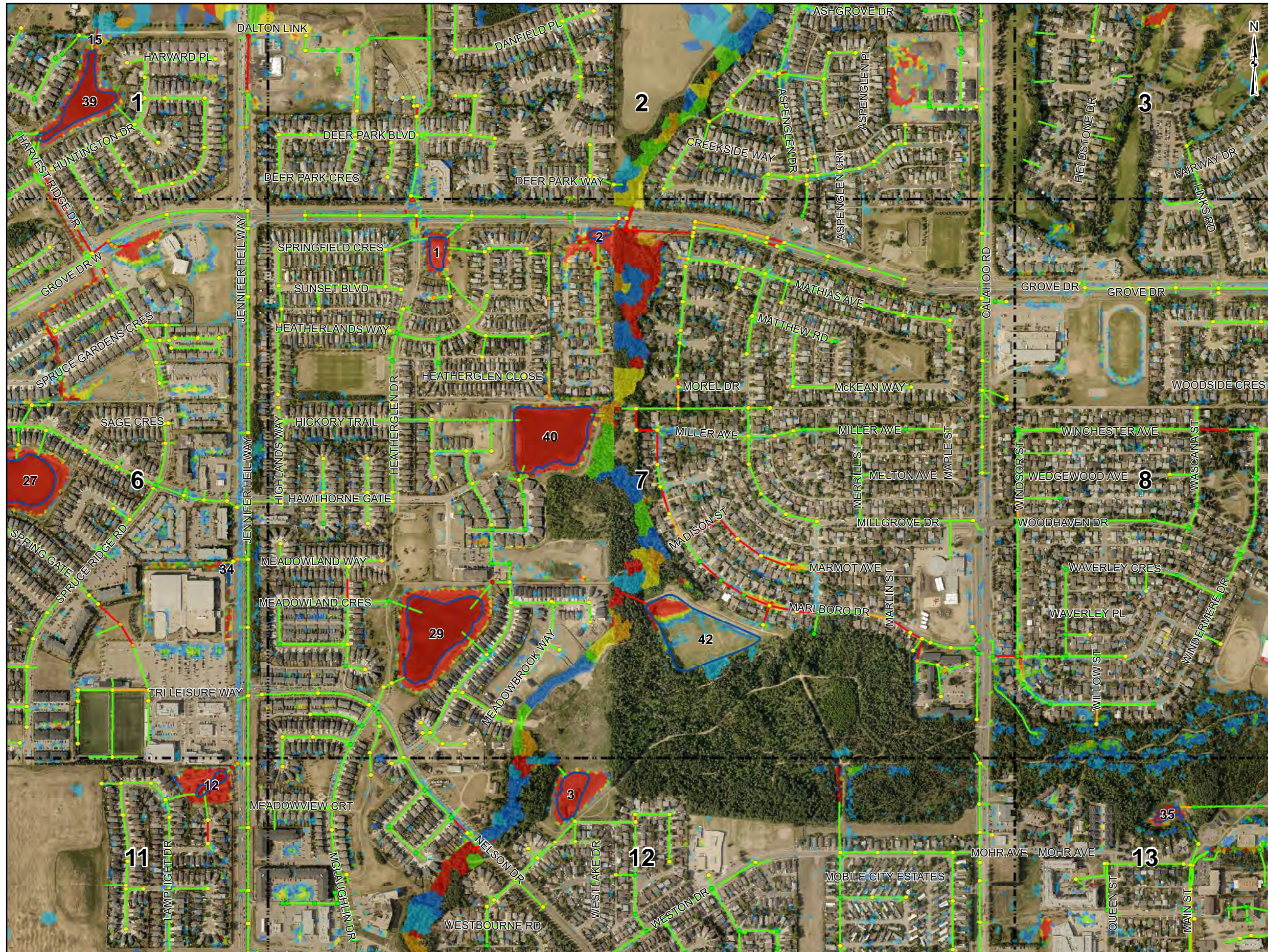
PROJECTION
NAD 1983 CSRS 3TM 114

0 60 120 240
1:8,500 Meters



FIGURE D.6
DATE 2024-05-27
PROJECT NO. 16462
AUTHOR JS

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LEGEND

- SWMF
- Maximum HGL Relative to Ground**

 - Less than -3.0m
 - -3.0m to -1.2m
 - -1.2m to 0.0m
 - Greater than 0.0m

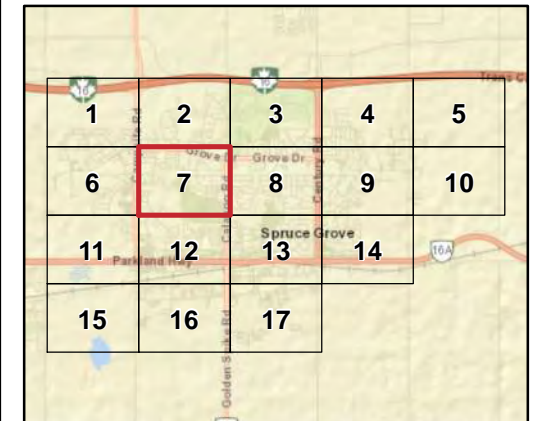
- Peak Flow Relative to Capacity**

 - Less than 86%
 - 86% to 100%
 - Greater than 100%

- Maximum Depth (m)**

 - <= 0.1 m
 - 0.1 - 0.2 m
 - 0.2 - 0.3 m
 - 0.3 - 0.4 m
 - 0.4 - 0.5 m
 - > 0.5 m

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PROJECT
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THE CITY OF SPRUCE GROVE

DATA SOURCES
- Topographic Map: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community
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PROJECTION
NAD 1983 CSRS 3TM 114

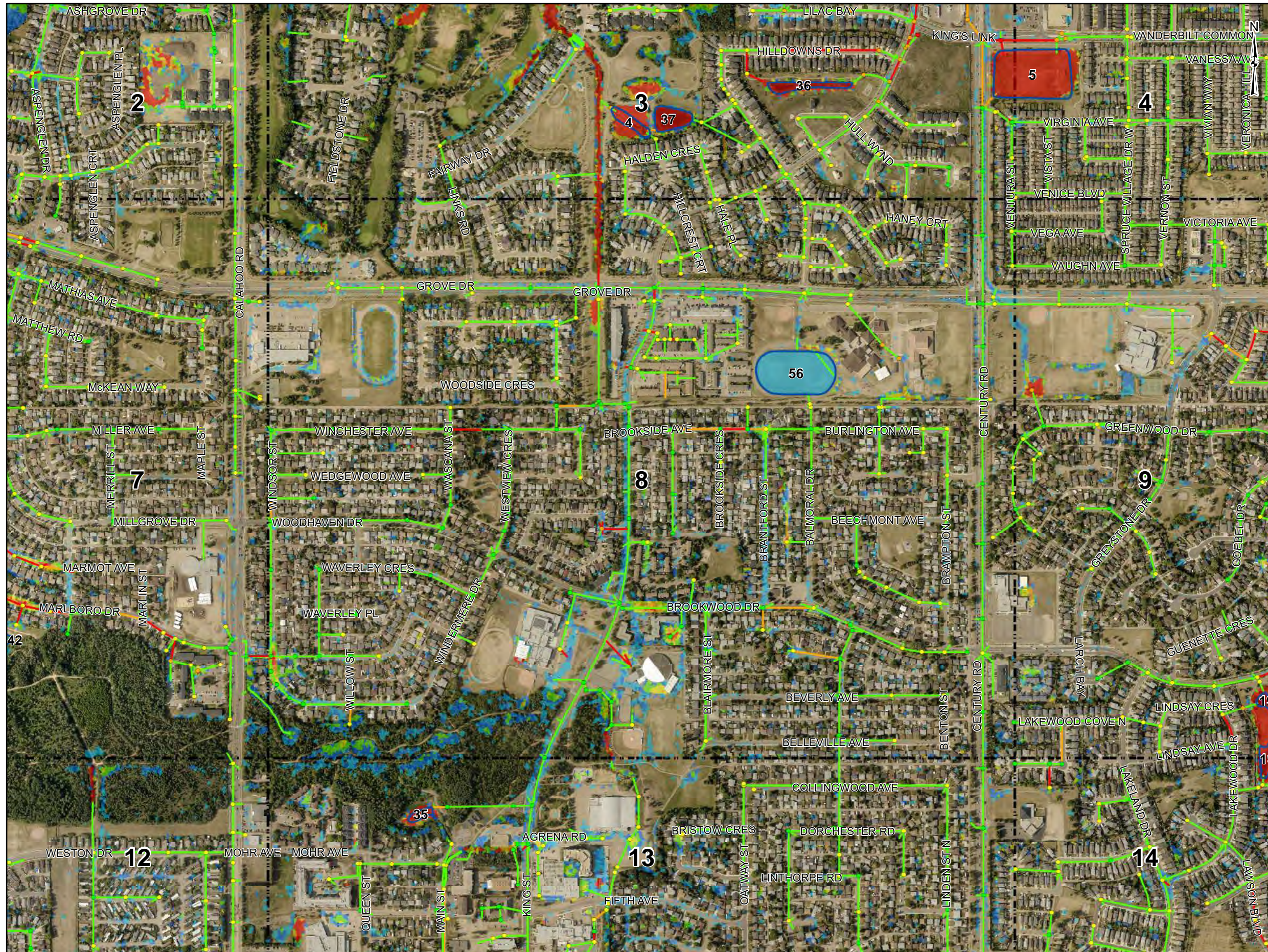
0 60 120 240

1:8,500

Meters

FIGURE D.7
DATE 2024-05-27
PROJECT NO. 16462
AUTHOR JS





LEGEND

SWMF

Maximum HGL Relative to Ground

- Less than -3.0m
- -3.0m to -1.2m
- -1.2m to 0.0m
- Greater than 0.0m

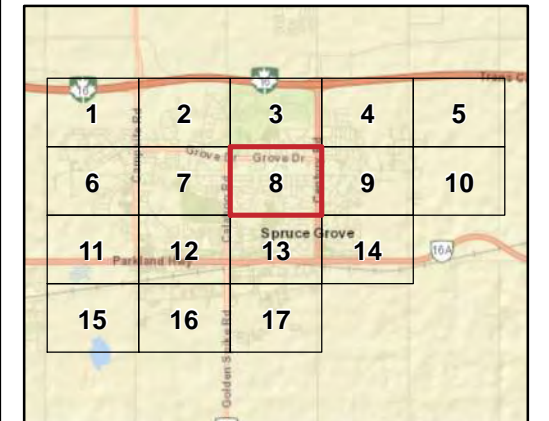
Peak Flow Relative to Capacity

- Less than 86%
- 86% to 100%
- Greater than 100%

Maximum Depth (m)

- <= 0.1 m
- 0.1 - 0.2 m
- 0.2 - 0.3 m
- 0.3 - 0.4 m
- 0.4 - 0.5 m
- > 0.5 m

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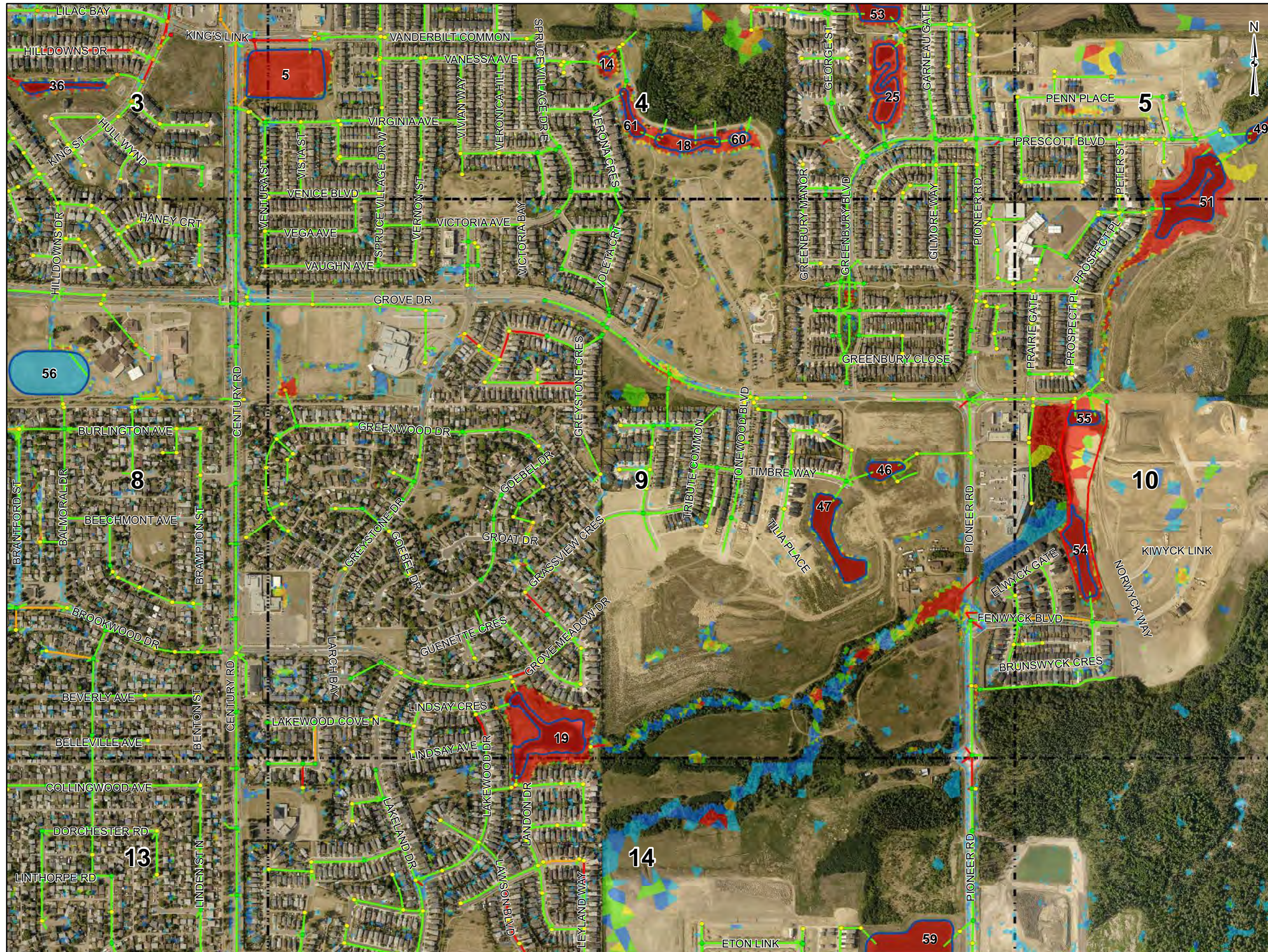
DATA SOURCES
- Topographic Map: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community
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PROJECTION
NAD 1983 CSRS 3TM 114

0 60 120 240
1:8,500 Meters



FIGURE D.8
DATE 2024-05-27
PROJECT NO. 16462
AUTHOR JS



LEGEND

SWMF

Maximum HGL Relative to Ground

- Less than -3.0m
- 3.0m to -1.2m
- 1.2m to 0.0m
- Greater than 0.0m

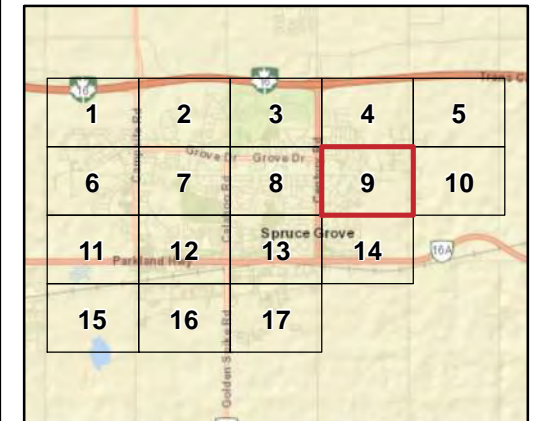
Peak Flow Relative to Capacity

- Less than 86%
- 86% to 100%
- Greater than 100%

Maximum Depth (m)

- <= 0.1 m
- 0.1 - 0.2 m
- 0.2 - 0.3 m
- 0.3 - 0.4 m
- 0.4 - 0.5 m
- > 0.5 m

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PROJECTION
NAD 1983 CSRS 3TM 114

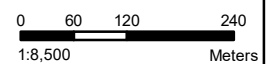
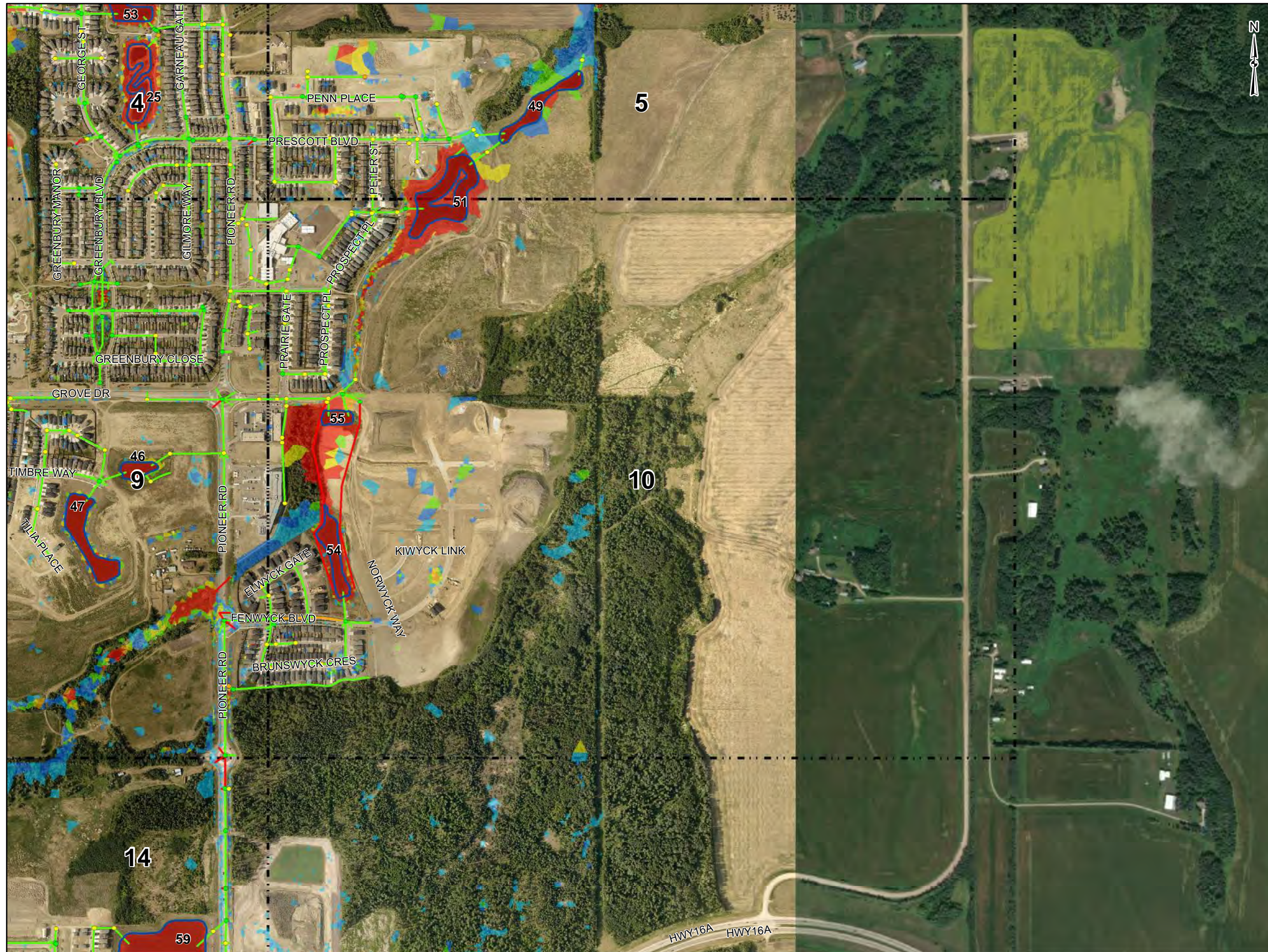


FIGURE D.9
DATE 2024-05-27
PROJECT NO. 16462
AUTHOR JS

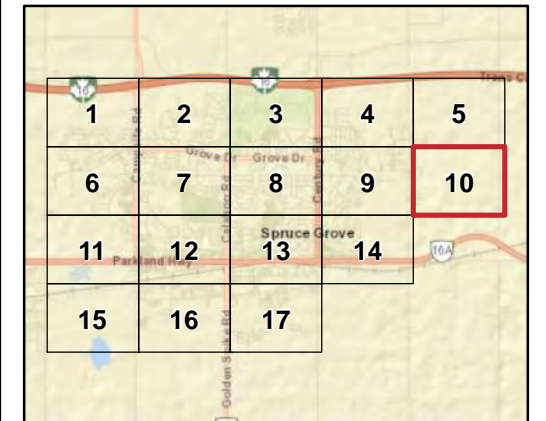
Document Path: M:\eremj\16462 - Spruce Grove Stormwater Master Plan\01_GIS\16462 - Map Book D - Existing System Results 100Y24H.mxd



LEGEND

- SWMF
- Maximum HGL Relative to Ground**
 - Less than -3.0m
 - -3.0m to -1.2m
 - -1.2m to 0.0m
 - Greater than 0.0m
- Peak Flow Relative to Capacity**
 - Less than 86%
 - 86% to 100%
 - Greater than 100%
- Maximum Depth (m)**
 - <= 0.1 m
 - 0.1 - 0.2 m
 - 0.2 - 0.3 m
 - 0.3 - 0.4 m
 - 0.4 - 0.5 m
 - > 0.5 m

SWMF maximum depths are relative to LiDAR elevations that cannot penetrate through water surfaces. Thus, elevations within SWMFs are relative to NWL.



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EXISTING STORMWATER SYSTEM MODELLING RESULTS: 100-YR, 24-HR DESIGN STORM

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DATA SOURCES
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PROJECTION
 NAD 1983 CSRS 3TM 114

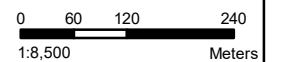


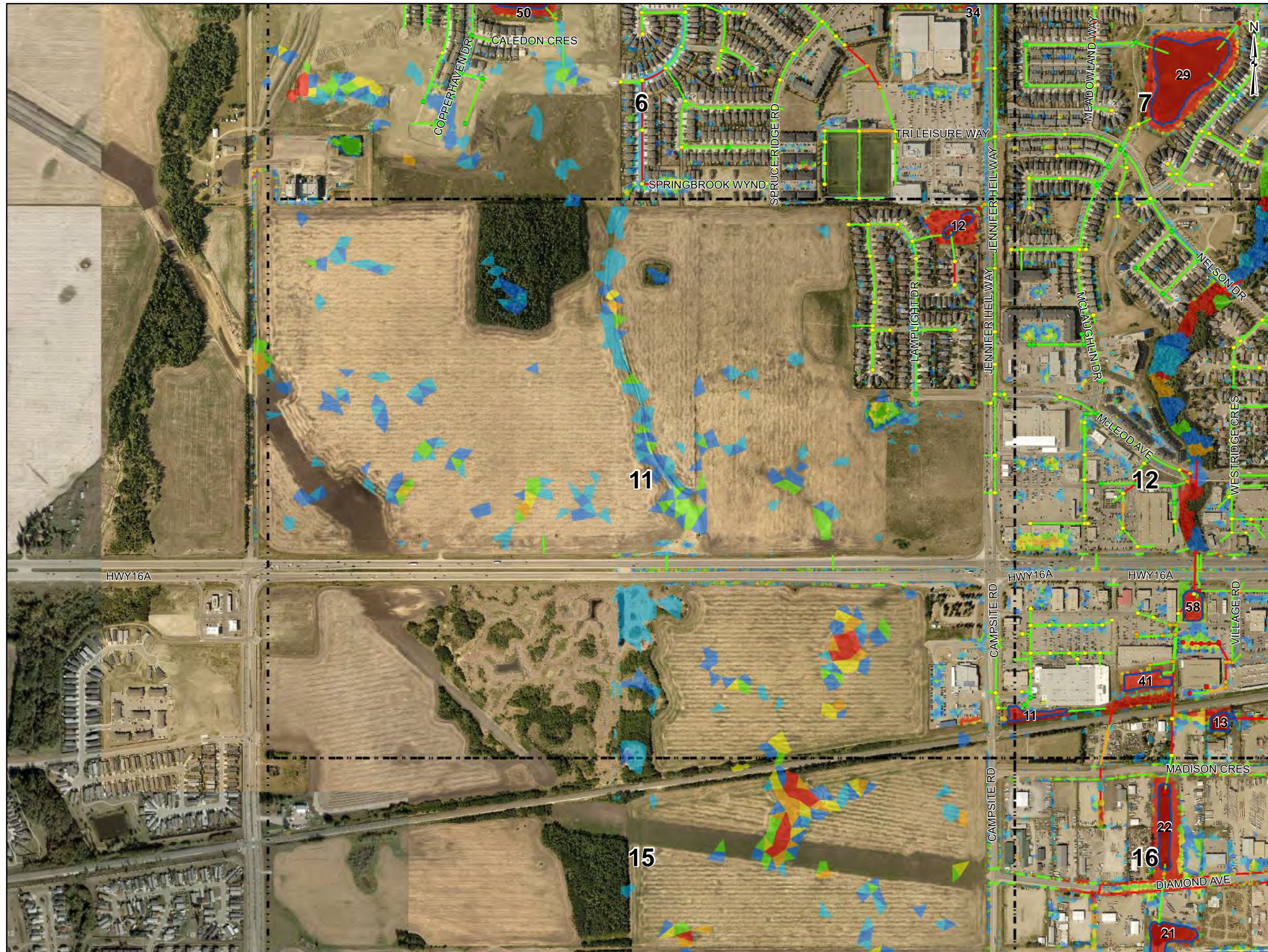
FIGURE D.10

DATE 2024-05-27

PROJECT NO. 16462

AUTHOR JS





LEGEND

- SWMF
- Maximum HGL Relative to Ground**

 - Less than -3.0m
 - -3.0m to -1.2m
 - -1.2m to 0.0m
 - Greater than 0.0m

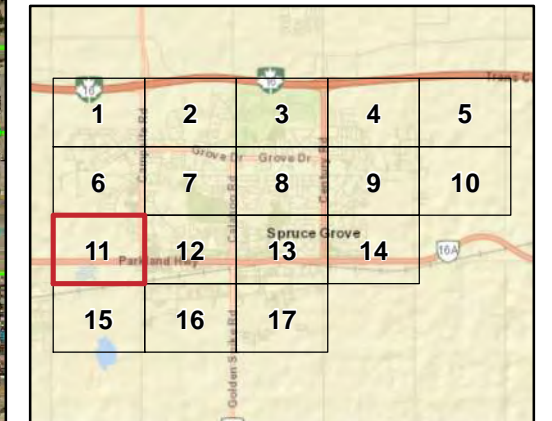
- Peak Flow Relative to Capacity**

 - Less than 86%
 - 86% to 100%
 - Greater than 100%

- Maximum Depth (m)**

 - <= 0.1 m
 - 0.1 - 0.2 m
 - 0.2 - 0.3 m
 - 0.3 - 0.4 m
 - 0.4 - 0.5 m
 - > 0.5 m

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EXISTING STORMWATER SYSTEM MODELLING RESULTS: 100-YR, 24-HR DESIGN STORM

PROJECT
SPRUCE GROVE STORMWATER MASTER PLAN
CLIENT
THE CITY OF SPRUCE GROVE

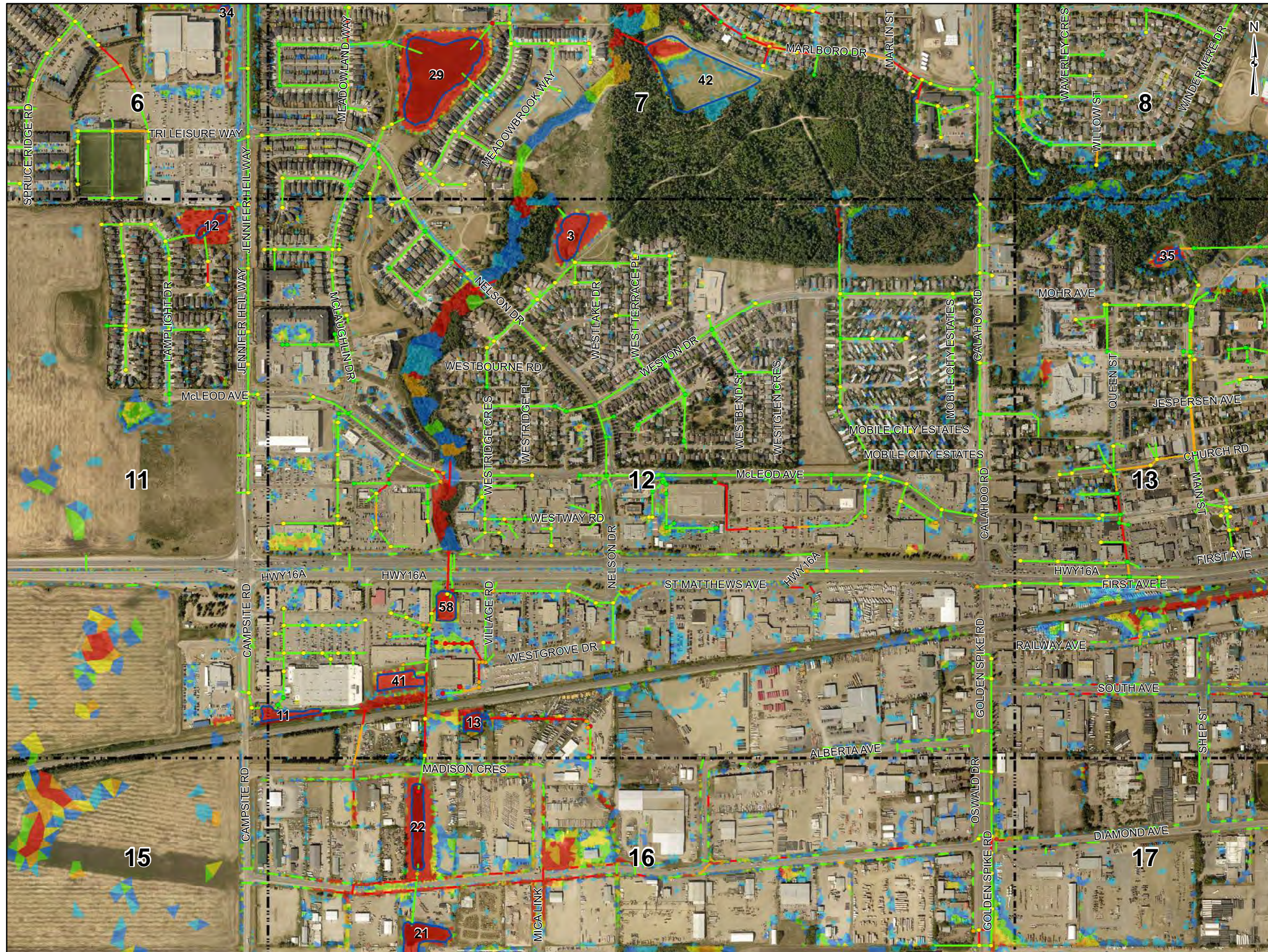
DATA SOURCES
- Topographic Map: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community
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PROJECTION
NAD 1983 CSRS 3TM 114

0 60 120 240
1:8,500 Meters



FIGURE D.11
DATE 2024-05-27
PROJECT NO. 16462
AUTHOR JS



LEGEND

SWMF

Maximum HGL Relative to Ground

- Less than -3.0m
- -3.0m to -1.2m
- -1.2m to 0.0m
- Greater than 0.0m

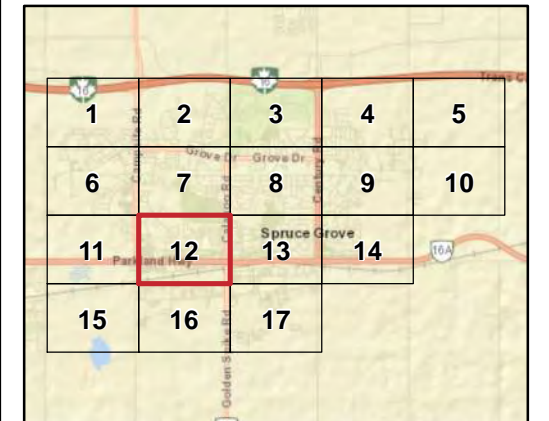
Peak Flow Relative to Capacity

- Less than 86%
- 86% to 100%
- Greater than 100%

Maximum Depth (m)

- <= 0.1 m
- 0.1 - 0.2 m
- 0.2 - 0.3 m
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EXISTING STORMWATER SYSTEM MODELLING RESULTS: 100-YR, 24-HR DESIGN STORM

PROJECT
 SPRUCE GROVE STORMWATER MASTER PLAN
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DATA SOURCES
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PROJECTION
 NAD 1983 CSRS 3TM 114

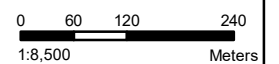
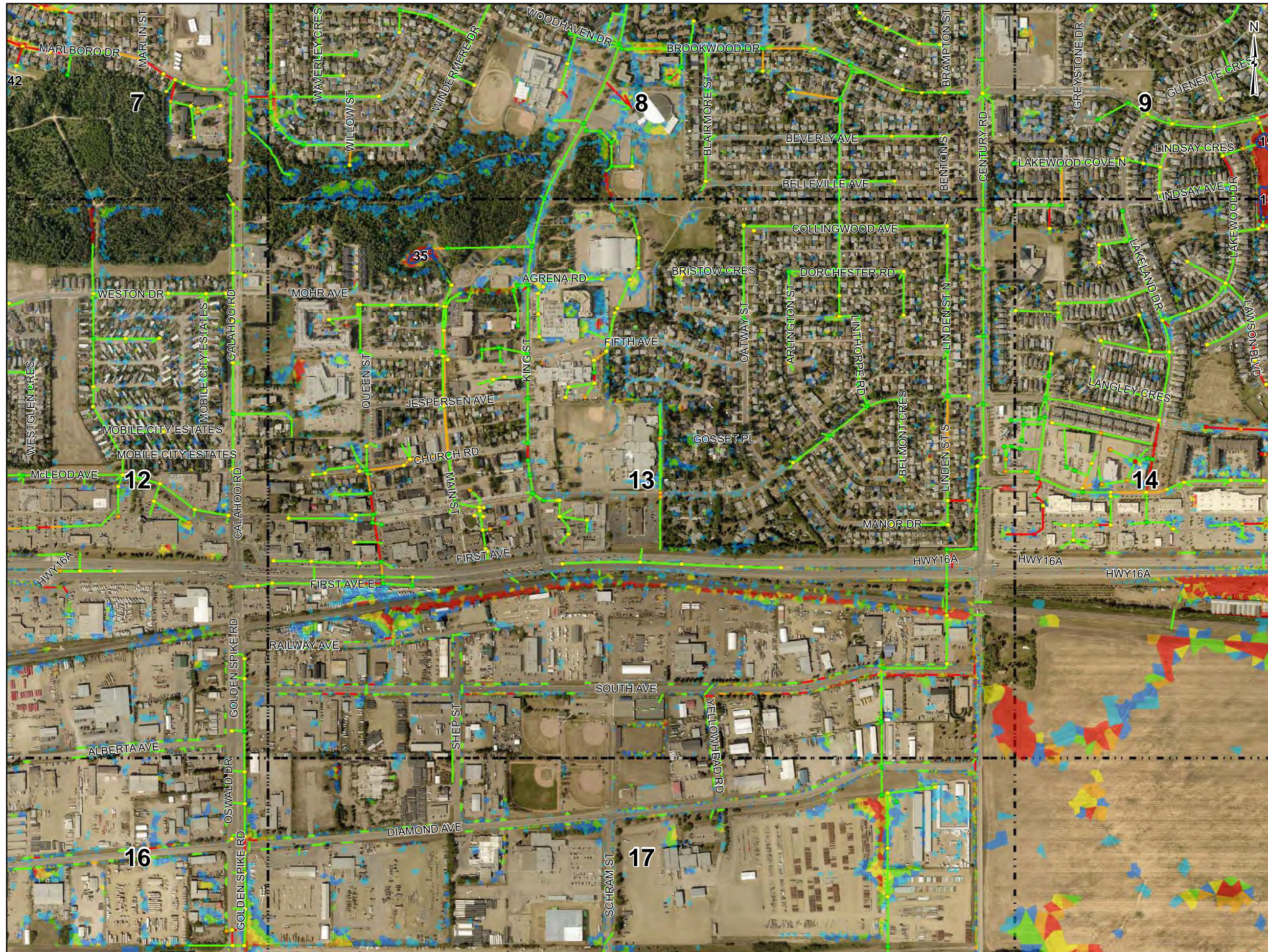


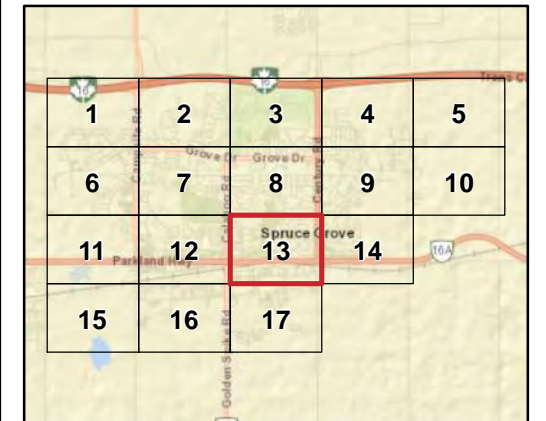
FIGURE D.12
 DATE 2024-05-27
 PROJECT NO. 16462
 AUTHOR JS



LEGEND

- SWMF
- Maximum HGL Relative to Ground**
 - Less than -3.0m
 - -3.0m to -1.2m
 - -1.2m to 0.0m
 - Greater than 0.0m
- Peak Flow Relative to Capacity**
 - Less than 86%
 - 86% to 100%
 - Greater than 100%
- Maximum Depth (m)**
 - <= 0.1 m
 - 0.1 - 0.2 m
 - 0.2 - 0.3 m
 - 0.3 - 0.4 m
 - 0.4 - 0.5 m
 - > 0.5 m

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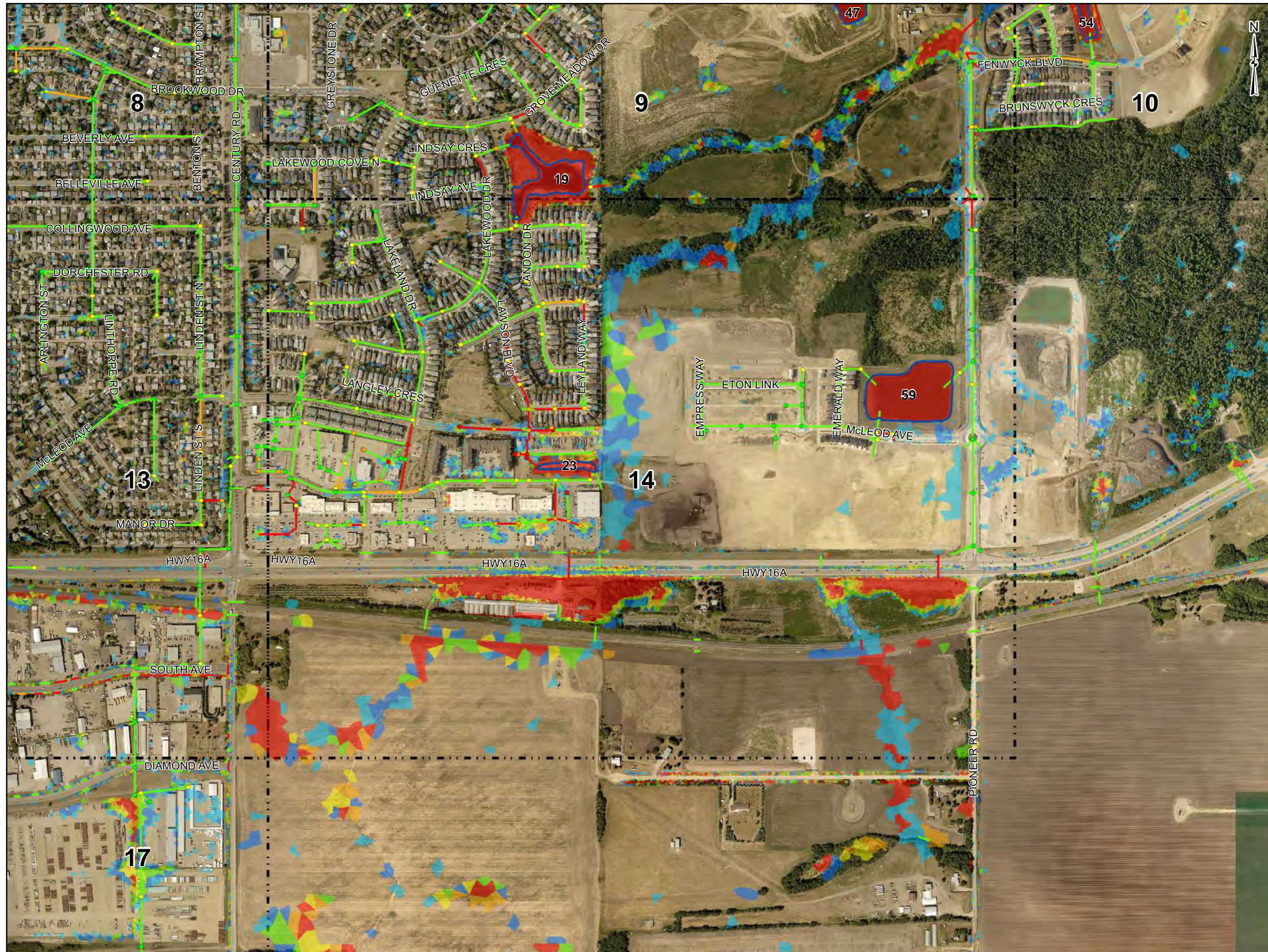
DATA SOURCES
- Topographic Map: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community
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PROJECTION
NAD 1983 CSRS 3TM 114

0 60 120 240
1:8,500 Meters



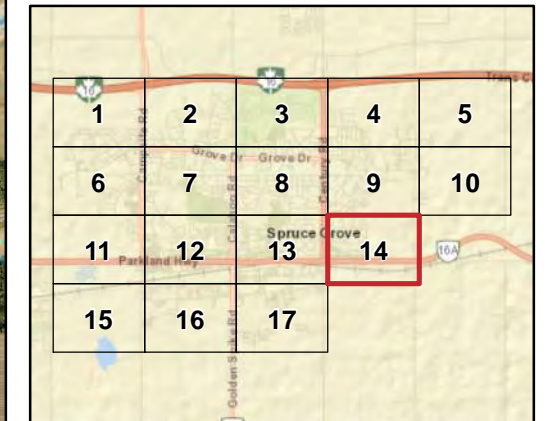
FIGURE D.13
DATE 2024-05-27
PROJECT NO. 16462
AUTHOR JS



LEGEND

- SWMF
- Maximum HGL Relative to Ground**
- Less than -3.0m
- -3.0m to -1.2m
- -1.2m to 0.0m
- Greater than 0.0m
- Peak Flow Relative to Capacity**
- Less than 86%
- 86% to 100%
- Greater than 100%
- Maximum Depth (m)**
- <= 0.1 m
- 0.1 - 0.2 m
- 0.2 - 0.3 m
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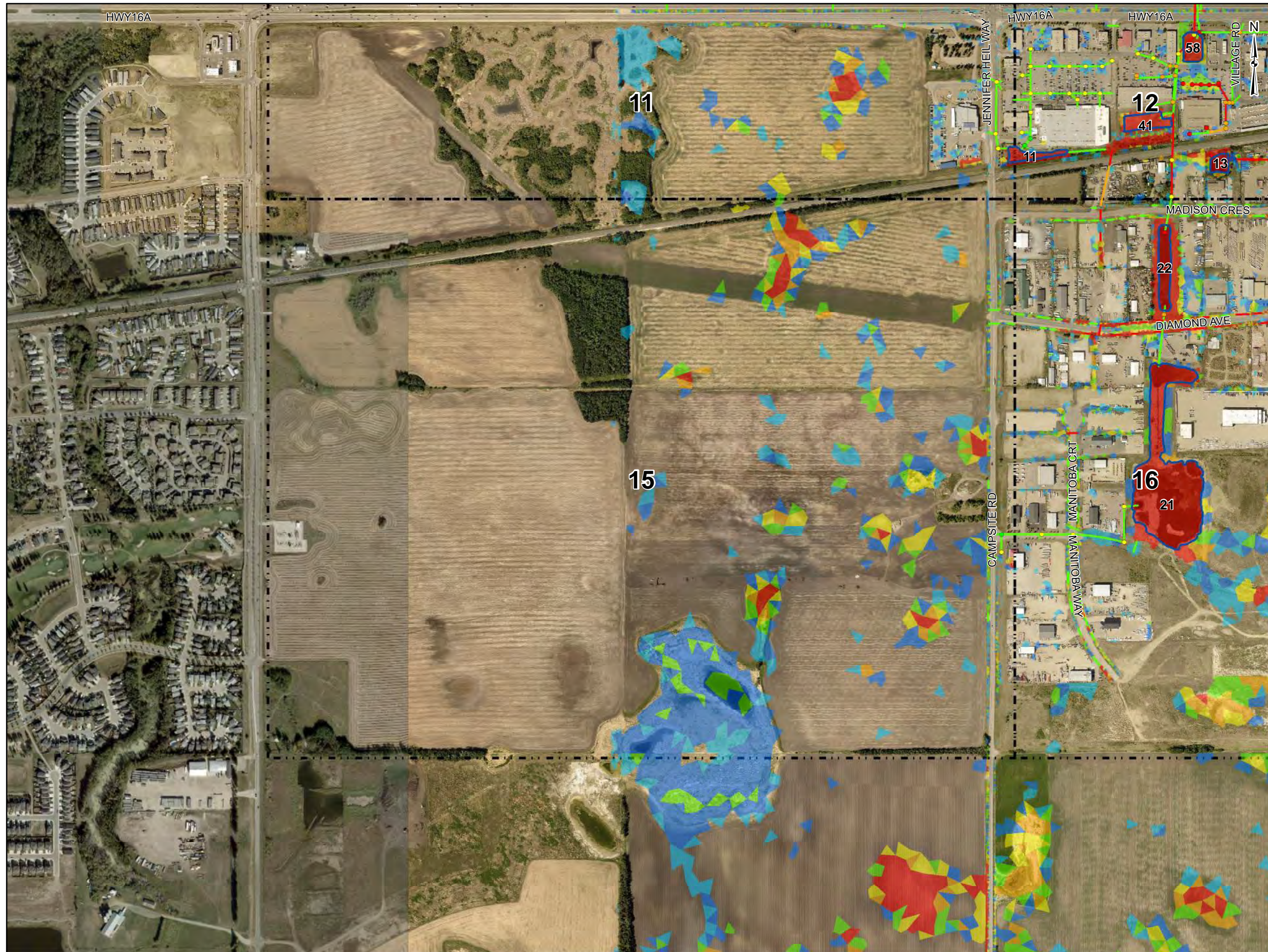
PROJECT
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PROJECTION: NAD 1983 CSRS 3TM 114
0 60 120 240
1:8,500 Meters



FIGURE: D.14
DATE: 2024-05-27
PROJECT NO.: 16462
AUTHOR: JS



LEGEND

- SWMF
- Maximum HGL Relative to Ground**

 - Less than -3.0m
 - -3.0m to -1.2m
 - -1.2m to 0.0m
 - Greater than 0.0m

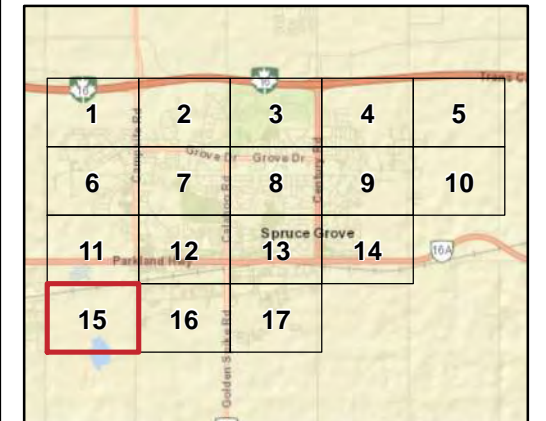
- Peak Flow Relative to Capacity**

 - Less than 86%
 - 86% to 100%
 - Greater than 100%

- Maximum Depth (m)**

 - <= 0.1 m
 - 0.1 - 0.2 m
 - 0.2 - 0.3 m
 - 0.3 - 0.4 m
 - 0.4 - 0.5 m
 - > 0.5 m

SWMF maximum depths are relative to LiDAR elevations that cannot penetrate through water surfaces. Thus, elevations within SWMFs are relative to NWL.



TITLE
EXISTING STORMWATER SYSTEM MODELLING RESULTS: 100-YR, 24-HR DESIGN STORM

PROJECT
SPRUCE GROVE STORMWATER MASTER PLAN
CLIENT
THE CITY OF SPRUCE GROVE

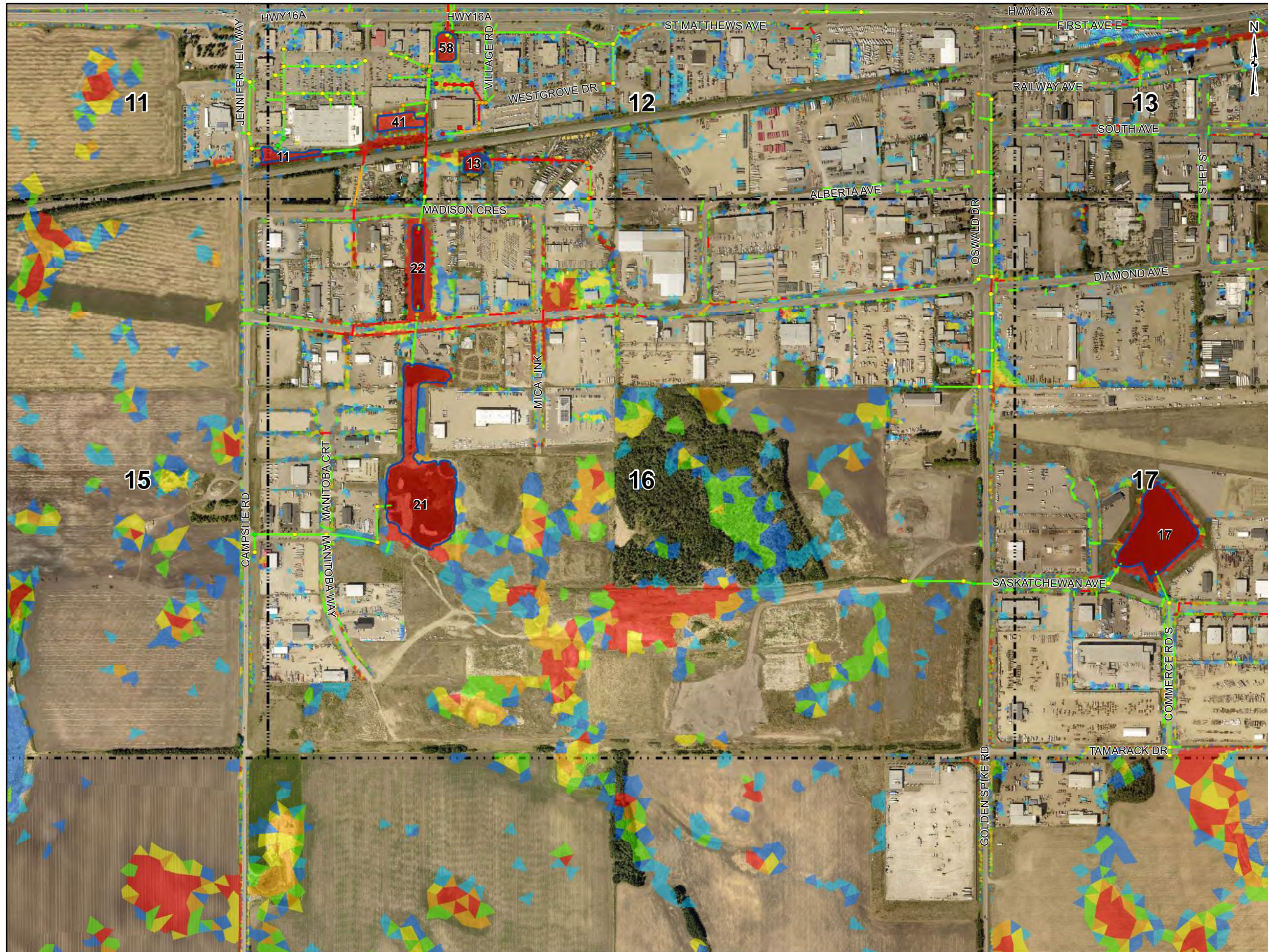
DATA SOURCES
- Topographic Map: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community
Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

PROJECTION
NAD 1983 CSRS 3TM 114

0 60 120 240
1:8,500 Meters



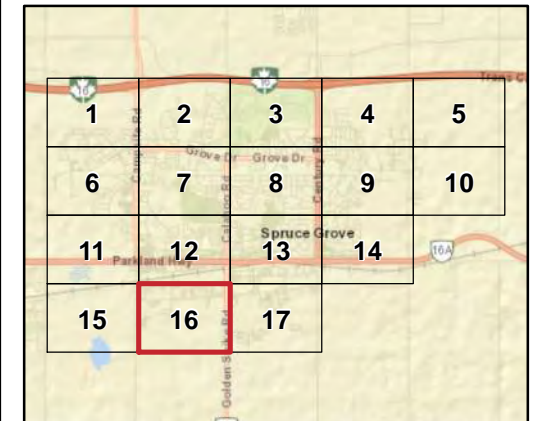
FIGURE D.15
DATE 2024-05-27
PROJECT NO. 16462
AUTHOR JS



LEGEND

- SWMF
- Maximum HGL Relative to Ground**
- Less than -3.0m
- -3.0m to -1.2m
- -1.2m to 0.0m
- Greater than 0.0m
- Peak Flow Relative to Capacity**
- Less than 86%
- 86% to 100%
- Greater than 100%
- Maximum Depth (m)**
- <= 0.1 m
- 0.1 - 0.2 m
- 0.2 - 0.3 m
- 0.3 - 0.4 m
- 0.4 - 0.5 m
- > 0.5 m

SWMF maximum depths are relative to LiDAR elevations that cannot penetrate through water surfaces. Thus, elevations within SWMFs are relative to NWL.



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DATA SOURCES
- Topographic Map: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community
Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

PROJECTION: NAD 1983 CSRS 3TM 114
Scale: 1:8,500
0 60 120 240 Meters



FIGURE: D.16
DATE: 2024-05-27
PROJECT NO.: 16462
AUTHOR: JS



LEGEND

- SWMF
- Maximum HGL Relative to Ground**

 - Less than -3.0m
 - -3.0m to -1.2m
 - -1.2m to 0.0m
 - Greater than 0.0m

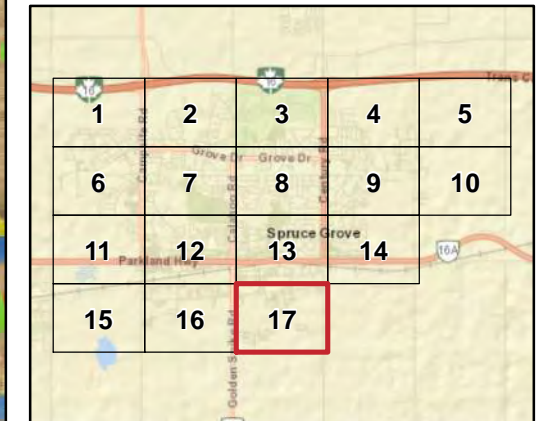
- Peak Flow Relative to Capacity**

 - Less than 86%
 - 86% to 100%
 - Greater than 100%

- Maximum Depth (m)**

 - <= 0.1 m
 - 0.1 - 0.2 m
 - 0.2 - 0.3 m
 - 0.3 - 0.4 m
 - 0.4 - 0.5 m
 - > 0.5 m

SWMF maximum depths are relative to LiDAR elevations that cannot penetrate through water surfaces. Thus, elevations within SWMFs are relative to NWL.



TITLE
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DATA SOURCES
- Topographic Map: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community
Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

PROJECTION
NAD 1983 CSRS 3TM 114

0 60 120 240
1:8,500 Meters



FIGURE D.17
DATE 2024-05-27
PROJECT NO. 16462
AUTHOR JS